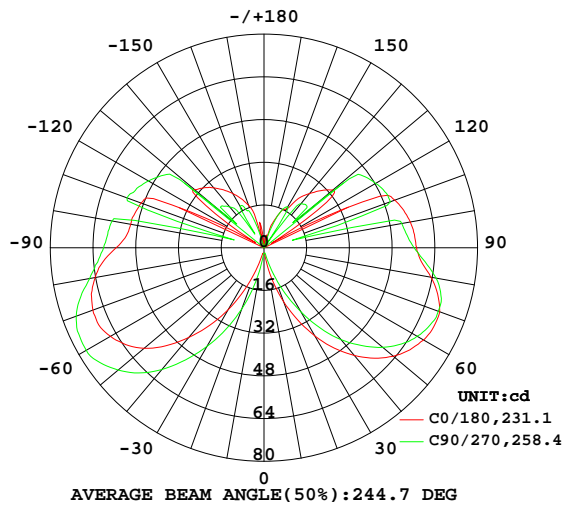


## LUMINAIRE PHOTOMETRIC TEST REPORT

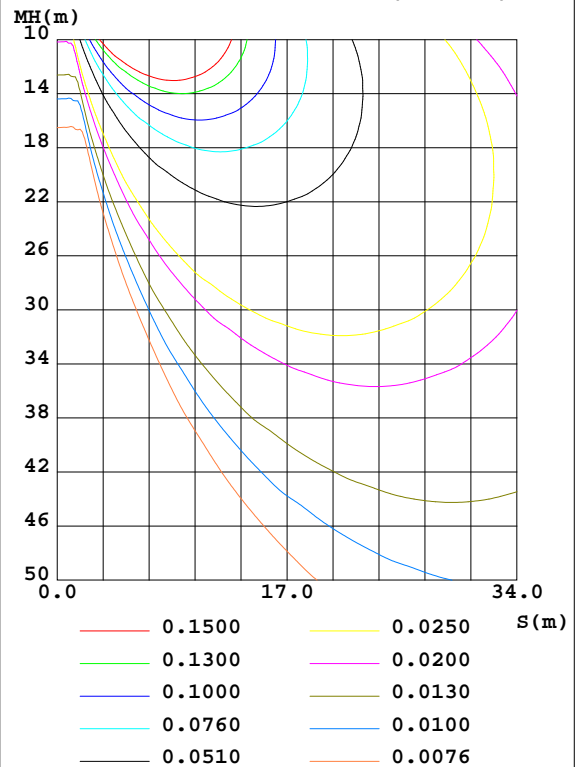
Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	HP5 5500K with Diffuser	Imax(cd)	77.80	S/MH(C0/180)	7.01
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	7.08
RATED VOLTAGE(V)	90-264	TOTAL FLUX(lm)	576.76	$\eta$ UP,DN(C0-180)	18.9,29.4
NOMINAL FLUX(lm)	576.763	CIE CLASS	SEMI-D.	$\eta$ UP,DN(C180-360)	19.3,32.3
LAMPS INSIDE	1	$\eta$ up(%)	38.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		$\eta$ down(%)	61.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	5.867	2.944	2.061	1.987	2.134	3.832	7.034	7.854	0- 10	0.2685	0.2685	0.05,0.05
20	21.49	17.21	10.64	4.968	9.221	18.66	24.45	24.31	10- 20	2.876	3.144	0.55,0.55
30	38.18	34.34	27.69	21.99	26.58	37.55	42.59	40.86	20- 30	11.84	14.99	2.6,2.6
40	52.69	49.82	44.93	39.95	43.88	55.14	59.57	56.38	30- 40	26.86	41.84	7.25,7.25
50	63.22	61.67	57.99	53.54	58.61	68.82	71.27	66.76	40- 50	44.47	86.31	15,15
60	69.10	68.73	66.23	62.40	66.40	75.89	76.84	72.06	50- 60	60.17	146.5	25.4,25.4
70	70.07	70.73	69.48	66.02	68.23	75.21	74.85	70.57	60- 70	70.42	216.9	37.6,37.6
80	63.47	64.43	65.45	63.90	64.24	67.48	66.31	63.49	70- 80	72.51	289.4	50.2,50.2
90	57.19	57.05	56.24	55.44	55.39	58.80	60.05	57.92	80- 90	66.65	356.1	61.7,61.7
100	55.65	54.76	52.40	50.27	50.71	55.57	57.77	56.23	90-100	60.72	416.8	72.3,72.3
110	52.20	21.42	50.41	17.01	49.01	18.84	54.61	24.05	100-110	48.22	465.0	80.6,80.6
120	5.676	47.57	48.29	45.06	6.585	49.01	50.04	47.16	110-120	36.86	501.9	87,87
130	33.72	43.65	26.11	42.33	33.92	43.86	23.61	40.98	120-130	33.97	535.8	92.9,92.9
140	26.58	35.94	21.50	36.00	29.36	36.19	20.02	31.27	130-140	23.08	558.9	96.9,96.9
150	16.94	21.20	17.59	20.93	23.54	16.34	18.03	18.71	140-150	10.77	569.7	98.8,98.8
160	10.40	0.0736	8.125	0.0775	16.92	5.226	11.94	6.073	150-160	5.890	575.6	99.8,99.8
170	4.713	1.251	0	3.459	9.780	5.002	0	0	160-170	1.020	576.6	100,100
180	0	0	0	0	0	0	0	0	170-180	0.1588	576.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 61.907 lm

%lum = 10.7%

%lamp = 10.7%

Conical surface Flux(120deg): 146.48 lm

%lum = 25.4%

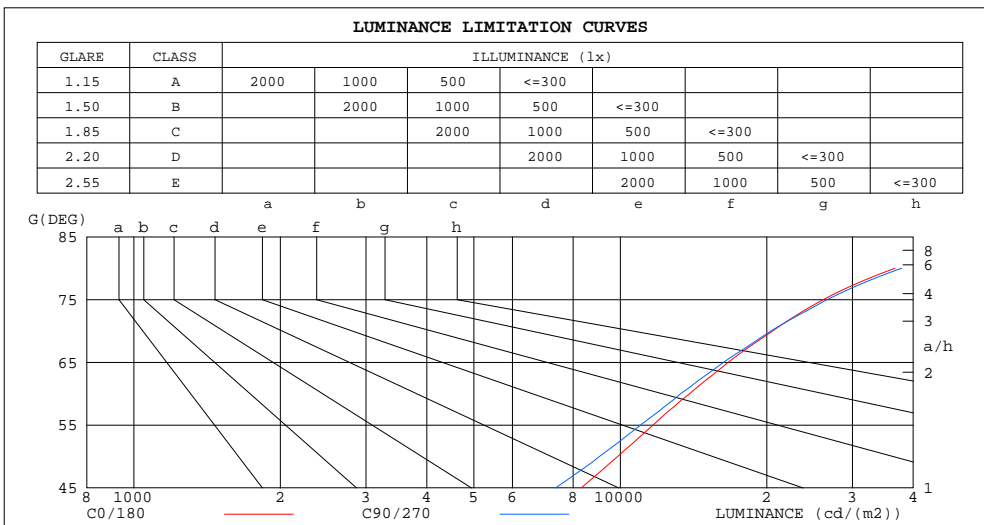
%lamp = 25.4%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	68116	69819
80	36712	37863
75	26138	26624
70	20580	20405
65	16671	16301
60	13882	13305
55	11677	11006
50	9879	9063
45	8309	7357

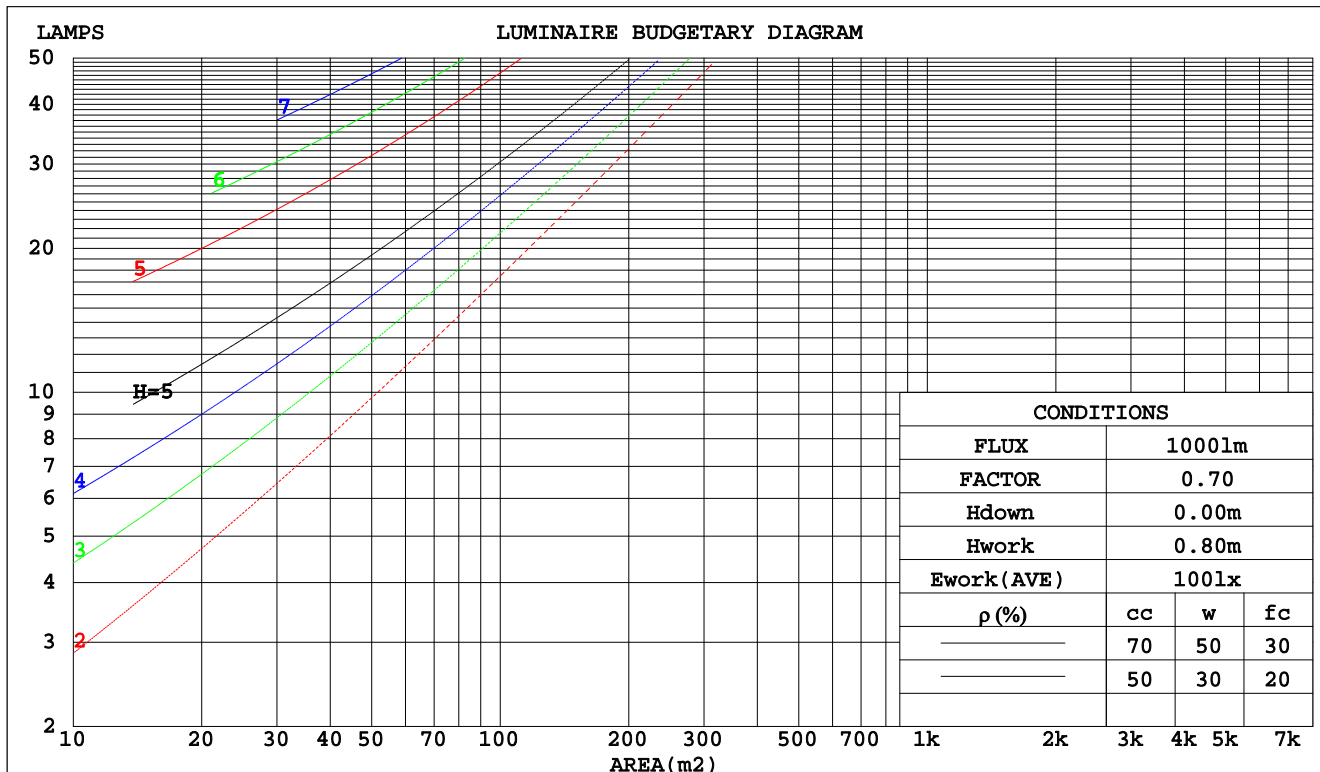
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.10	1.10	1.10	1.03	1.03	1.03	.90	.90	.90	.78	.78	.78	.67	.67	.67	.62														
1.0	.87	.81	.75	.81	.75	.70	.69	.65	.61	.59	.55	.52	.49	.46	.44	.39														
2.0	.72	.63	.56	.67	.59	.52	.57	.50	.45	.48	.43	.38	.39	.35	.32	.27														
3.0	.61	.51	.43	.56	.47	.40	.48	.40	.34	.40	.34	.29	.32	.28	.24	.20														
4.0	.52	.42	.34	.48	.39	.32	.41	.33	.27	.34	.28	.23	.27	.23	.19	.15														
5.0	.46	.35	.28	.42	.33	.26	.36	.28	.22	.30	.23	.18	.24	.19	.15	.11														
6.0	.40	.30	.23	.37	.28	.21	.31	.24	.18	.26	.20	.15	.21	.16	.12	.09														
7.0	.36	.26	.19	.33	.24	.18	.28	.21	.15	.23	.17	.13	.19	.14	.10	.07														
8.0	.32	.23	.17	.30	.21	.15	.25	.18	.13	.21	.15	.11	.17	.12	.08	.06														
9.0	.29	.20	.14	.27	.19	.13	.23	.16	.11	.19	.13	.09	.15	.11	.07	.05														
10.0	.26	.18	.12	.24	.17	.12	.21	.14	.10	.17	.12	.08	.14	.09	.06	.04														



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## WEC AND CCEC

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm									
NAME: NYX Bulb					TYPE:LED			WEIGHT:N/A	
SPEC.:N/A					DIM.:			SERIAL No.:N/A	
MFR.: Astera LED Technology GmbH					SUR.:			Shielding Angle:N/A	

pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.458	.260	.083	.439	.250	.080	.403	.231	.074	.371	.214	.069	.340	.197	.064		
2.0	.380	.208	.064	.362	.200	.061	.330	.183	.057	.300	.168	.053	.272	.154	.048		
3.0	.329	.175	.052	.313	.167	.050	.283	.153	.047	.255	.140	.043	.230	.127	.039		
4.0	.290	.151	.044	.276	.144	.043	.249	.132	.039	.223	.120	.036	.200	.109	.033		
5.0	.260	.133	.038	.247	.127	.037	.222	.116	.034	.199	.105	.031	.177	.095	.028		
6.0	.236	.118	.034	.224	.113	.033	.201	.103	.030	.179	.093	.027	.159	.084	.025		
7.0	.216	.107	.030	.204	.102	.029	.183	.093	.027	.163	.084	.024	.145	.075	.022		
8.0	.198	.097	.027	.188	.093	.026	.168	.084	.024	.150	.076	.022	.133	.068	.020		
9.0	.184	.089	.025	.174	.085	.024	.156	.077	.022	.139	.070	.020	.123	.062	.018		
10.0	.171	.082	.023	.162	.078	.022	.145	.071	.020	.129	.064	.018	.114	.057	.016		

pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.482	.482	.482	.412	.412	.412	.281	.281	.281	.162	.162	.162	.052	.052	.052		
1.0	.485	.449	.417	.415	.385	.359	.284	.265	.248	.163	.153	.144	.052	.049	.047		
2.0	.480	.427	.383	.411	.368	.331	.282	.255	.231	.162	.148	.135	.052	.048	.044		
3.0	.473	.412	.364	.406	.356	.315	.279	.247	.221	.161	.144	.130	.052	.047	.043		
4.0	.466	.401	.351	.400	.346	.305	.275	.241	.215	.159	.141	.127	.051	.046	.042		
5.0	.458	.392	.343	.393	.339	.298	.271	.237	.210	.157	.139	.125	.051	.045	.041		
6.0	.451	.384	.337	.387	.333	.293	.267	.233	.207	.155	.137	.123	.050	.045	.041		
7.0	.443	.378	.332	.381	.328	.290	.263	.230	.205	.153	.135	.122	.049	.044	.040		
8.0	.436	.373	.329	.376	.323	.287	.260	.227	.204	.151	.134	.121	.049	.044	.040		
9.0	.430	.368	.327	.370	.320	.285	.257	.225	.202	.149	.133	.121	.048	.044	.040		
10.0	.424	.364	.325	.365	.316	.283	.253	.223	.201	.148	.132	.120	.048	.043	.040		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## UGR(Unified Glare Rating) Table

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm										
NAME: NYX Bulb					TYPE:LED			WEIGHT:N/A		
SPEC.:N/A					DIM.:			SERIAL No.:N/A		
MFR.: Astera LED Technology GmbH					SUR.:			Shielding Angle:N/A		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.6	20.9	20.4	21.7	22.7	19.5	20.8	20.2	21.5	22.5
3H	23.0	24.2	23.8	25.0	26.0	22.9	24.1	23.7	24.9	25.9
4H	24.8	25.9	25.6	26.7	27.7	24.8	25.9	25.6	26.7	27.7
6H	26.6	27.7	27.4	28.5	29.6	26.7	27.7	27.5	28.6	29.6
8H	27.6	28.6	28.4	29.5	30.5	27.7	28.7	28.5	29.6	30.6
12H	28.7	29.7	29.5	30.5	31.6	28.8	29.8	29.7	30.7	31.7
4H 2H	20.7	21.8	21.5	22.7	23.7	20.6	21.7	21.4	22.6	23.6
3H	24.2	25.1	25.0	26.0	27.1	24.1	25.1	25.0	26.0	27.0
4H	26.0	26.9	26.9	27.8	28.9	26.1	27.0	26.9	27.8	28.9
6H	28.0	28.8	28.9	29.7	30.8	28.1	28.9	29.0	29.8	30.9
8H	29.1	29.8	30.0	30.7	31.9	29.2	30.0	30.1	30.9	32.0
12H	30.3	31.0	31.2	31.9	33.0	30.4	31.1	31.3	32.0	33.2
8H 4H	26.7	27.5	27.6	28.4	29.5	26.8	27.5	27.6	28.4	29.5
6H	29.0	29.6	29.9	30.5	31.7	29.0	29.7	29.9	30.6	31.8
8H	30.2	30.8	31.1	31.7	32.9	30.3	30.9	31.2	31.8	33.0
12H	31.6	32.1	32.6	33.1	34.3	31.7	32.3	32.7	33.2	34.4
12H 4H	26.9	27.6	27.8	28.5	29.7	26.9	27.6	27.8	28.5	29.7
6H	29.3	29.8	30.2	30.8	31.9	29.3	29.9	30.2	30.8	32.0
8H	30.6	31.1	31.5	32.1	33.3	30.7	31.2	31.6	32.2	33.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 576.8 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = -1.9$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:24.5DEG  
Operators:William  
Test Date:2020-04-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity:56.4%  
Test Distance:26.000m [K=1.3952]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A

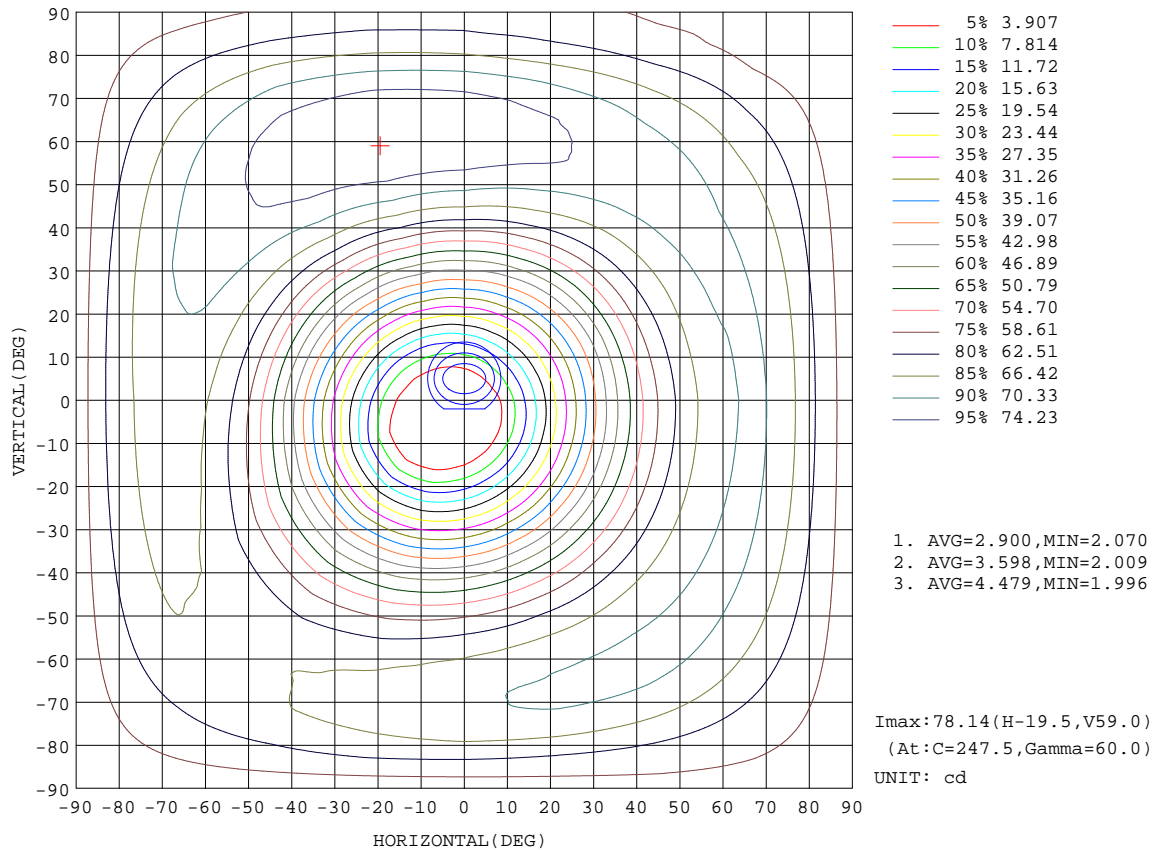
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	35	21	13	33	20	13	30	19	12	5
0.80	43	28	19	41	27	19	37	25	17	8
1.00	51	36	26	48	34	25	43	33	23	12
1.25	58	43	32	54	41	31	48	37	28	16
1.50	63	48	38	59	46	36	52	41	33	19
2.00	72	58	47	67	54	45	59	48	41	24
2.50	77	64	54	72	60	51	63	53	46	28
3.00	81	69	60	76	65	57	66	58	51	32
4.00	87	77	68	81	72	64	71	63	57	36
5.00	91	82	74	85	77	70	74	67	62	40
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A



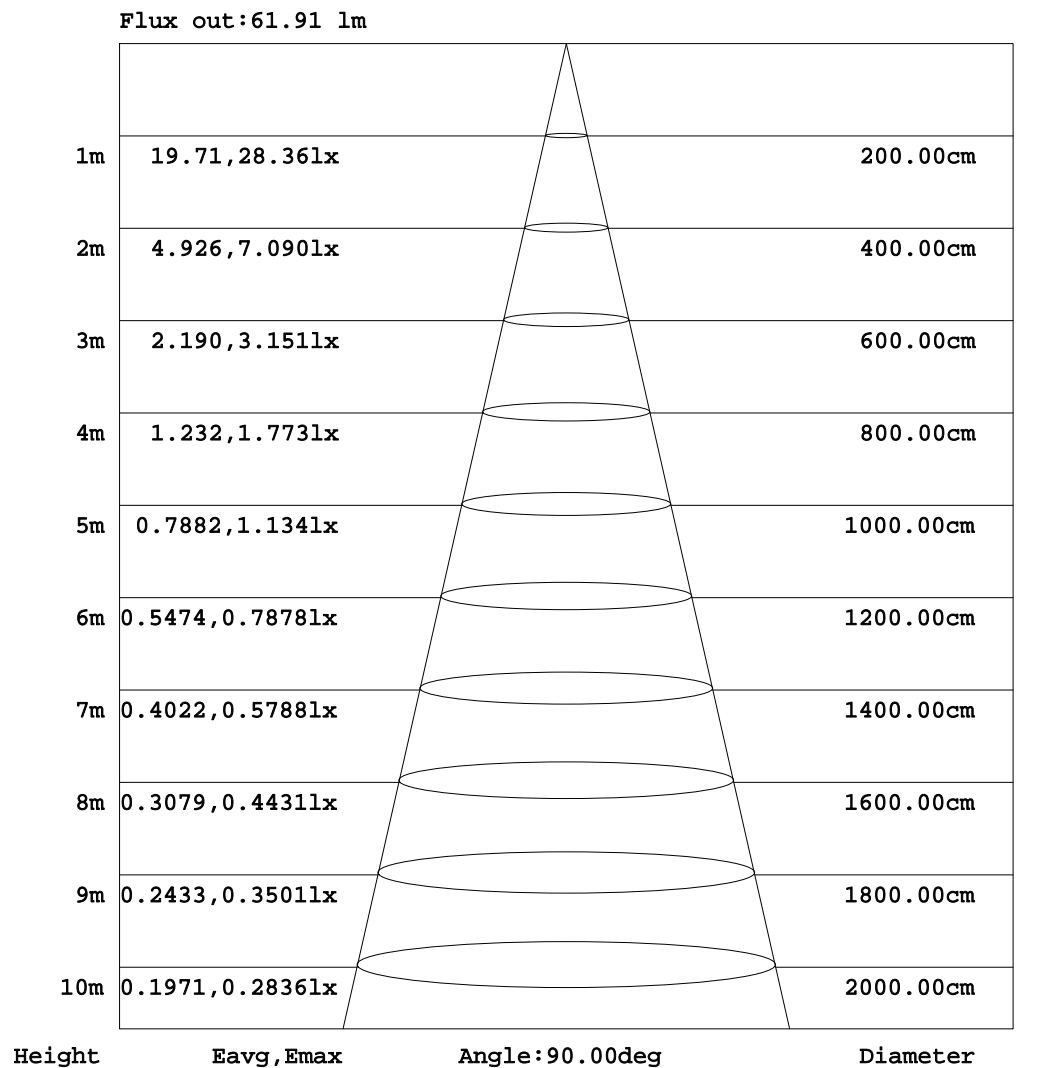
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:



## AAI Figure

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A



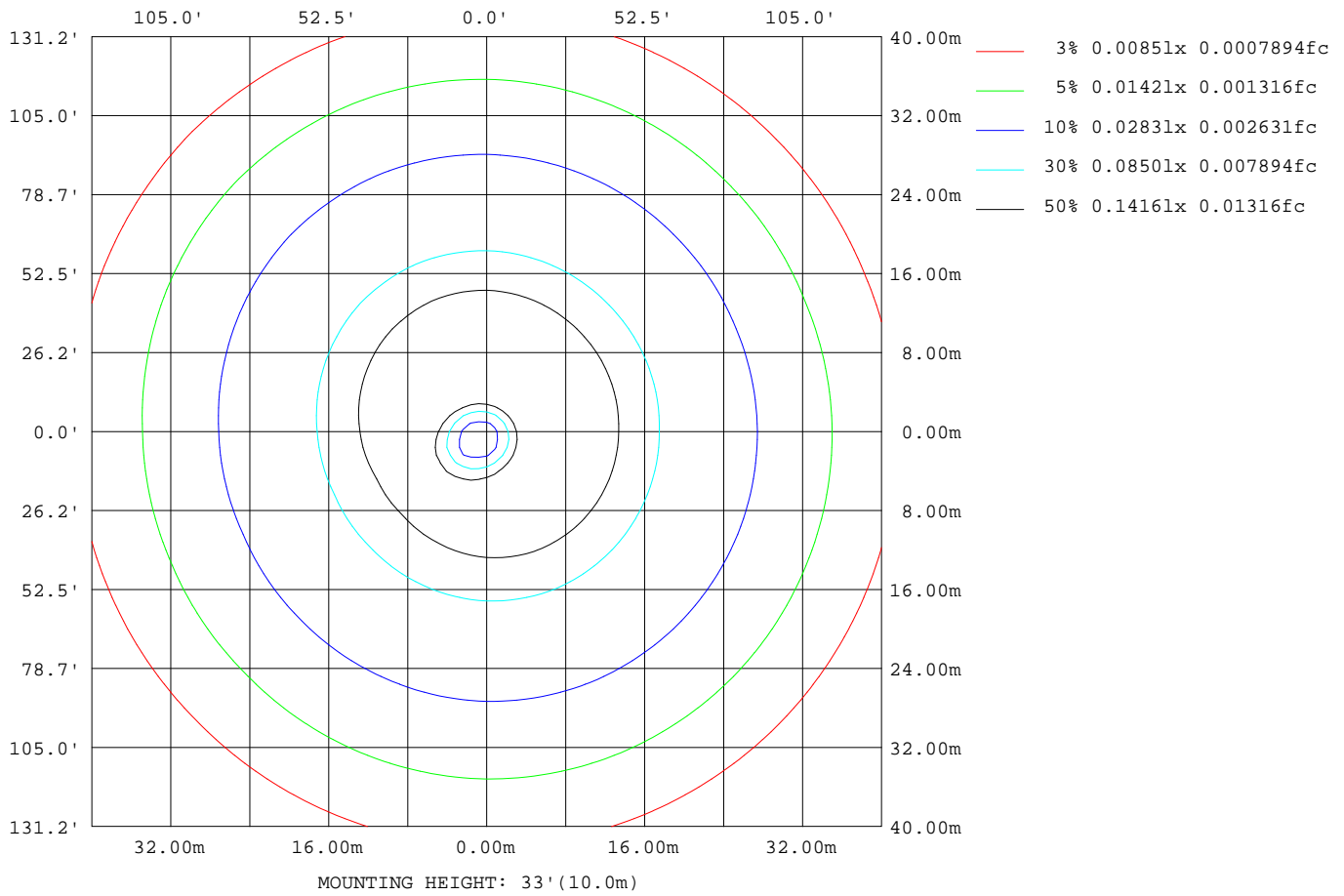
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## ISOLUX DIAGRAM

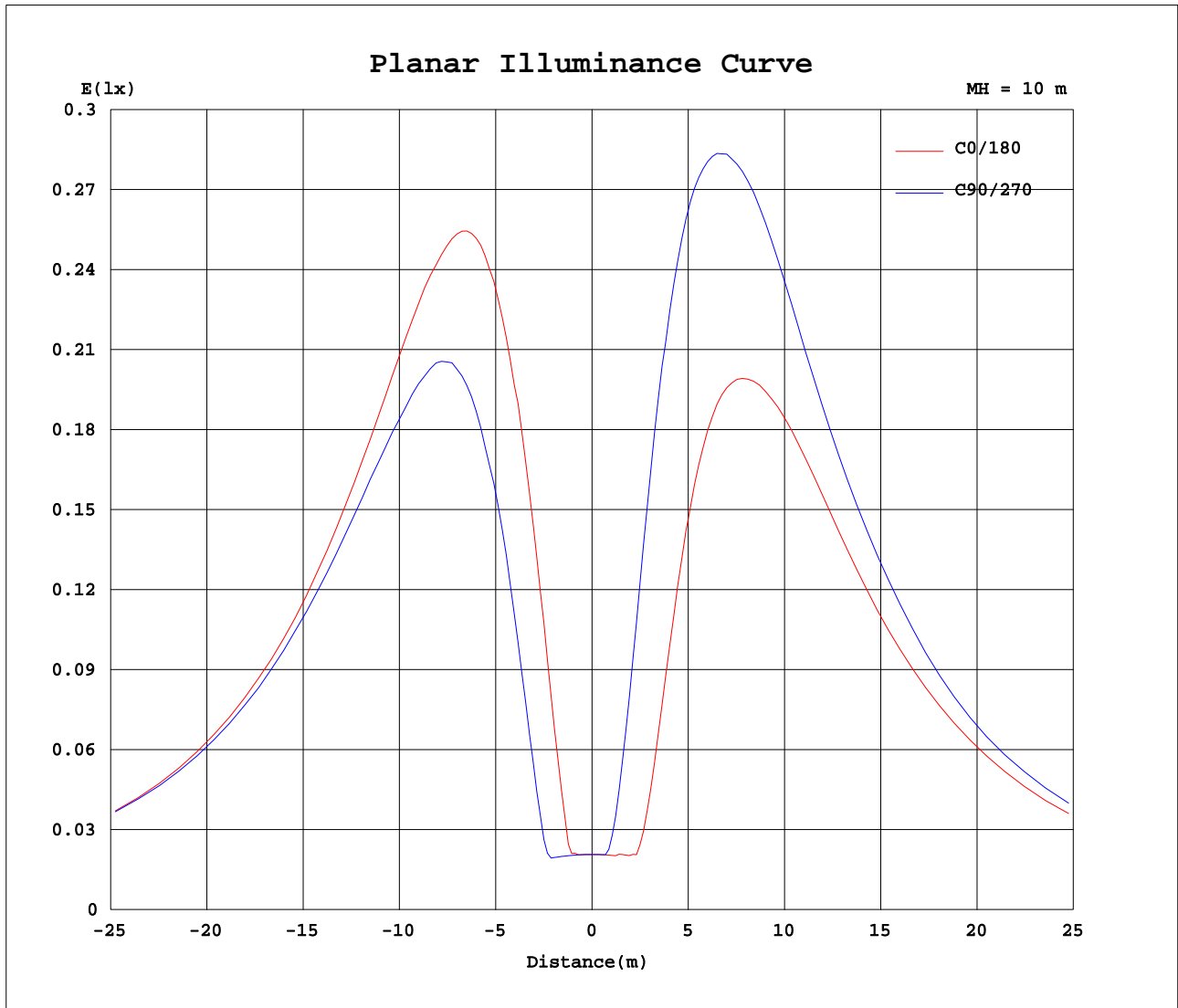
Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:24.5DEG  
 Operators:William  
 Test Date:2020-04-27

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
 Humidity:56.4%  
 Test Distance:26.000m [K=1.3952]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 24.5DEG  
Operators: William  
Test Date: 2020-04-27

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.366  
Humidity: 56.4%  
Test Distance: 26.000m [K=1.3952]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:576.763x1 lm																		
NAME: NYX Bulb									TYPE:LED					WEIGHT:N/A				
SPEC.:N/A									DIM.:					SERIAL No.:N/A				
MFR.: Astera LED Technology GmbH									SUR.:					Shielding Angle:N/A				

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06			
5	2.13	2.06	2.06	1.99	2.06	1.99	1.99	2.06	2.06	2.06	2.13	2.21	2.28	2.45	2.45	2.46			
10	5.87	4.48	2.94	2.06	2.06	1.99	1.99	2.06	2.13	2.29	3.83	5.61	7.03	7.76	7.85	7.49			
15	13.1	11.2	9.10	6.44	3.88	2.06	1.99	2.06	3.25	6.36	9.90	13.0	15.1	16.0	15.9	15.5			
20	21.5	19.7	17.2	14.1	10.6	7.12	4.97	5.64	9.22	13.9	18.7	22.3	24.4	24.9	24.3	23.9			
25	29.7	27.8	25.4	22.7	19.1	15.4	12.9	14.0	17.6	23.0	28.0	31.8	33.6	33.8	32.7	32.4			
30	38.2	36.5	34.3	31.4	27.7	24.1	22.0	23.5	26.6	32.3	37.6	41.1	42.6	42.2	40.9	40.7			
35	45.9	44.5	42.7	40.0	36.7	33.3	31.2	33.1	35.5	41.2	46.5	50.0	51.3	50.6	48.9	48.9			
40	52.7	51.4	49.8	47.7	44.9	42.0	40.0	42.3	43.9	49.6	55.1	58.7	59.6	58.3	56.4	56.6			
45	58.5	57.5	56.3	54.5	51.8	49.0	47.2	49.8	51.9	57.6	62.9	66.0	66.4	64.7	62.4	62.8			
50	63.2	62.5	61.7	60.3	58.0	55.4	53.5	56.2	58.6	63.8	68.8	71.3	71.3	69.2	66.8	67.3			
55	66.7	66.2	65.8	64.8	62.8	60.4	58.6	61.4	63.2	68.3	72.9	75.3	75.0	72.8	70.3	70.8			
60	69.1	68.9	68.7	68.2	66.2	64.1	62.4	65.2	66.4	71.4	75.9	77.8	76.8	74.6	72.1	73.2			
65	70.1	70.7	70.6	70.0	68.6	66.3	64.8	67.5	68.3	72.3	76.1	77.6	76.5	74.3	72.0	73.2			
70	70.1	70.4	70.7	70.6	69.5	67.5	66.0	68.3	68.2	71.8	75.2	75.9	74.9	72.9	70.6	72.0			
75	67.3	67.9	68.6	68.9	68.6	67.4	65.9	68.4	67.0	69.9	72.3	72.2	71.1	69.5	67.7	69.2			
80	63.5	63.9	64.4	65.1	65.5	64.9	63.9	66.3	64.2	66.5	67.5	67.2	66.3	64.8	63.5	65.2			
85	59.1	59.7	60.0	60.2	60.6	60.7	60.4	62.6	60.6	61.6	62.5	63.0	62.6	61.4	59.8	60.4			
90	57.2	57.1	57.0	56.7	56.2	55.8	55.4	57.6	55.4	56.9	58.8	60.1	60.1	59.2	57.9	58.9			
95	56.6	56.2	55.4	54.8	53.8	52.7	51.6	53.0	51.7	54.2	56.7	58.3	58.7	58.4	57.4	58.5			
100	55.6	55.4	54.8	53.6	52.4	51.1	50.3	52.2	50.7	53.1	55.6	57.0	57.8	56.8	56.2	57.5			
105	54.2	54.3	54.0	53.6	52.4	51.0	50.0	51.5	50.0	52.2	54.5	56.7	57.8	56.8	56.2	57.5			
110	52.2	52.6	51.4	51.7	50.4	49.5	48.0	50.5	49.0	50.8	52.9	54.7	54.6	54.1	53.6	54.1			
115	40.6	27.5	21.8	51.0	49.9	48.8	22.9	22.7	37.9	25.2	26.6	52.9	52.6	51.7	23.4	31.0			
120	5.68	6.05	47.6	49.2	48.3	47.3	45.1	9.15	6.58	8.94	49.0	50.5	50.0	47.5	47.2	7.04			
125	24.3	34.1	46.7	47.0	46.3	45.3	44.4	31.7	22.2	35.9	46.7	47.5	47.0	43.9	44.4	29.9			
130	33.7	29.2	43.6	44.2	26.1	43.2	42.3	26.0	33.9	30.9	43.9	44.4	23.6	40.2	41.0	22.7			
135	30.3	19.3	40.3	39.4	22.4	40.1	39.8	17.0	31.9	20.3	40.6	37.5	22.2	33.3	37.0	13.2			
140	26.6	11.2	35.9	21.5	21.5	24.0	36.0	10.10	29.4	11.1	36.2	24.1	20.0	16.5	31.3	8.00			
145	22.5	6.55	29.1	7.77	2.13	7.07	29.2	8.09	26.5	8.02	27.4	12.4	12.1	2.88	23.6	5.19			
150	16.9	5.15	21.2	21.9	17.6	20.8	20.9	7.79	23.5	10.2	16.3	9.26	18.0	24.0	18.7	4.81			
155	15.0	5.15	6.18	23.0	15.1	22.9	7.84	7.79	20.3	14.2	6.77	8.76	15.6	19.9	4.72	2.60			
160	10.4	5.15	0.07	12.6	8.12	13.2	0.08	8.40	16.9	15.2	5.23	6.60	11.9	11.1	6.07	2.41			
165	0.09	0.00	0.95	0.07	0.08	0.29	2.34	0.17	8.40	7.72	0.09	0.07	1.82	0.51	0.51	0.00			
170	4.71	3.53	1.25	0.14	0.00	0.29	3.46	7.33	9.78	9.63	5.00	0.00	0.00	0.00	0.00	0.00			
175	0.83	0.68	0.08	0.00	0.00	0.00	0.96	2.68	3.53	3.71	0.95	0.00	0.00	0.00	0.00	0.00			
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

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