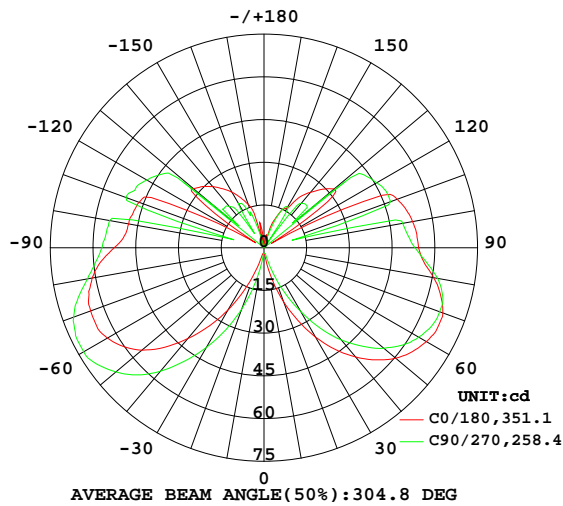


LUMINAIRE PHOTOMETRIC TEST REPORT

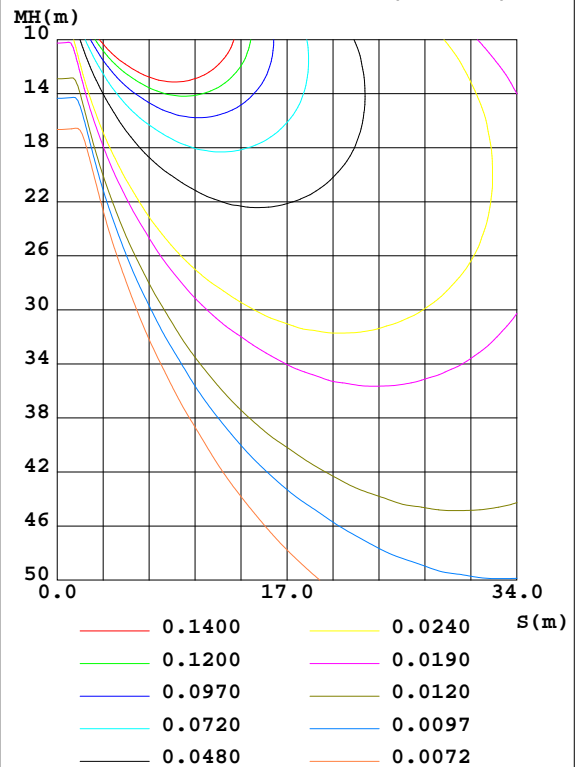
Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:546.169x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	HP5 3200K with Diffuser	Imax(cd)	74.33	S/MH(C0/180)	6.95
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	7.01
RATED VOLTAGE(V)	90-264	TOTAL FLUX(lm)	546.17	η UP,DN(C0-180)	18.9,29.4
NOMINAL FLUX(lm)	546.169	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	19.4,32.3
LAMPS INSIDE	1	η up(%)	38.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η 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

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5.446	2.788	1.987	1.914	2.061	3.539	6.568	7.244	0- 10	0.2554	0.2554	0.05,0.05
20	20.20	16.08	9.752	4.486	8.589	17.46	22.94	22.60	10- 20	2.685	2.941	0.54,0.54
30	36.28	32.37	25.82	20.21	25.05	35.59	40.30	38.32	20- 30	11.10	14.04	2.57,2.57
40	50.04	47.31	42.31	37.15	41.61	52.59	56.56	53.07	30- 40	25.33	39.38	7.21,7.21
50	60.35	58.79	54.90	50.04	55.94	65.81	67.86	62.93	40- 50	42.13	81.50	14.9,14.9
60	65.86	65.42	62.70	58.64	63.46	72.56	73.08	68.23	50- 60	57.10	138.6	25.4,25.4
70	66.83	67.12	65.65	61.68	64.77	71.66	71.09	66.46	60- 70	66.79	205.4	37.6,37.6
80	60.52	61.32	61.91	59.84	61.29	64.15	62.92	59.89	70- 80	68.67	274.1	50.2,50.2
90	54.32	54.04	52.99	51.76	52.61	55.86	56.89	54.39	80- 90	63.00	337.1	61.7,61.7
100	52.99	51.97	49.46	46.96	48.21	52.86	55.04	52.92	90-100	57.38	394.4	72.2,72.2
110	49.83	20.51	47.30	16.15	46.66	18.40	51.59	23.06	100-110	45.64	440.1	80.6,80.6
120	5.450	45.34	45.72	42.34	6.406	46.67	47.54	44.67	110-120	34.96	475.0	87,87
130	32.24	41.70	24.88	39.82	32.38	41.90	22.77	38.71	120-130	32.26	507.3	92.9,92.9
140	25.41	34.34	20.39	33.96	28.17	34.53	18.99	29.78	130-140	21.95	529.3	96.9,96.9
150	16.20	20.26	16.56	19.81	22.52	15.79	18.03	17.57	140-150	10.24	539.5	98.8,98.8
160	10.02	0.0043	7.768	0.0759	16.25	4.994	12.26	5.776	150-160	5.559	545.0	99.8,99.8
170	4.564	1.103	0	2.942	9.267	4.696	0	0	160-170	0.9706	546.0	100,100
180	0	0	0	0	0	0	0	0	170-180	0.1494	546.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 58.366 lm

%lum = 10.7%

%lamp = 10.7%

Conical surface Flux(120deg): 138.61 lm

%lum = 25.4%

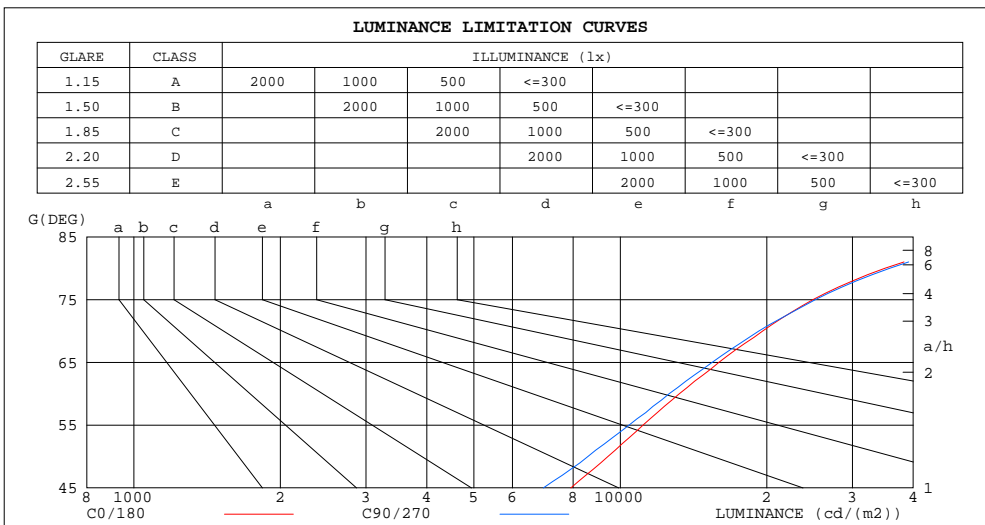
%lamp = 25.4%

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

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:

LUMINANCE LIMITATION CURVES

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:546.169x1 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	64893	65849
80	35010	35813
75	24911	25195
70	19628	19281
65	15954	15445
60	13232	12596
55	11135	10426
50	9431	8580
45	7911	6949

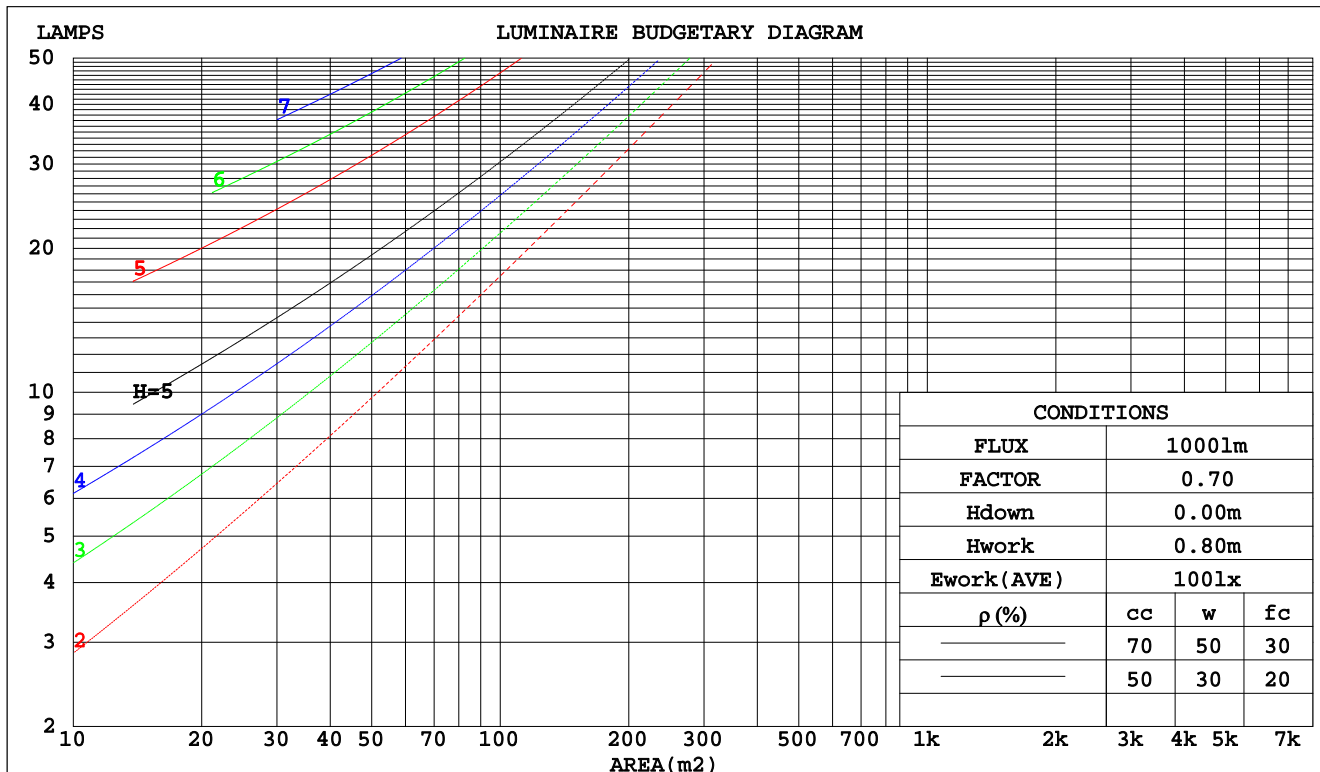
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-04-27

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:546.169x1 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	.18	.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:546.169x1 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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.458	.260	.082	.439	.250	.080	.403	.231	.074	.370	.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	
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						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	.428	.383	.411	.368	.331	.282	.255	.231	.162	.148	.136	.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	.394	.339	.298	.271	.237	.211	.157	.139	.125	.051	.045	.041		
6.0	.451	.384	.337	.387	.333	.293	.267	.233	.208	.155	.137	.123	.050	.045	.041		
7.0	.443	.378	.333	.381	.328	.290	.264	.230	.205	.153	.135	.122	.049	.044	.040		
8.0	.436	.373	.329	.376	.324	.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:546.169x1 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	19.5	20.8	20.2	21.6	22.5	19.3	20.6	20.1	21.4	22.4
3H	22.9	24.0	23.6	24.9	25.9	22.8	23.9	23.5	24.8	25.8
4H	24.6	25.7	25.4	26.6	27.6	24.6	25.7	25.4	26.5	27.6
6H	26.5	27.5	27.3	28.4	29.4	26.5	27.6	27.3	28.4	29.5
8H	27.4	28.5	28.3	29.3	30.4	27.5	28.5	28.3	29.4	30.4
12H	28.6	29.5	29.4	30.4	31.5	28.6	29.6	29.5	30.5	31.5
4H 2H	20.6	21.7	21.4	22.5	23.6	20.5	21.6	21.2	22.4	23.4
3H	24.0	25.0	24.8	25.9	26.9	24.0	24.9	24.8	25.8	26.9
4H	25.9	26.8	26.7	27.7	28.8	25.9	26.8	26.7	27.7	28.8
6H	27.9	28.7	28.7	29.6	30.7	27.9	28.7	28.8	29.6	30.8
8H	28.9	29.7	29.8	30.6	31.7	29.0	29.8	29.9	30.7	31.8
12H	30.1	30.8	31.0	31.7	32.9	30.2	30.9	31.1	31.8	33.0
8H 4H	26.6	27.3	27.5	28.2	29.4	26.6	27.3	27.5	28.2	29.4
6H	28.8	29.5	29.7	30.4	31.5	28.9	29.5	29.8	30.4	31.6
8H	30.1	30.6	31.0	31.6	32.7	30.1	30.7	31.0	31.7	32.8
12H	31.5	32.0	32.4	32.9	34.1	31.6	32.1	32.5	33.0	34.2
12H 4H	26.8	27.5	27.6	28.4	29.5	26.8	27.5	27.6	28.4	29.5
6H	29.1	29.7	30.0	30.6	31.8	29.2	29.7	30.1	30.7	31.8
8H	30.5	31.0	31.4	31.9	33.1	30.5	31.0	31.5	32.0	33.2
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, 546.2 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -2.1$)

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:

UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:546.169x1 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

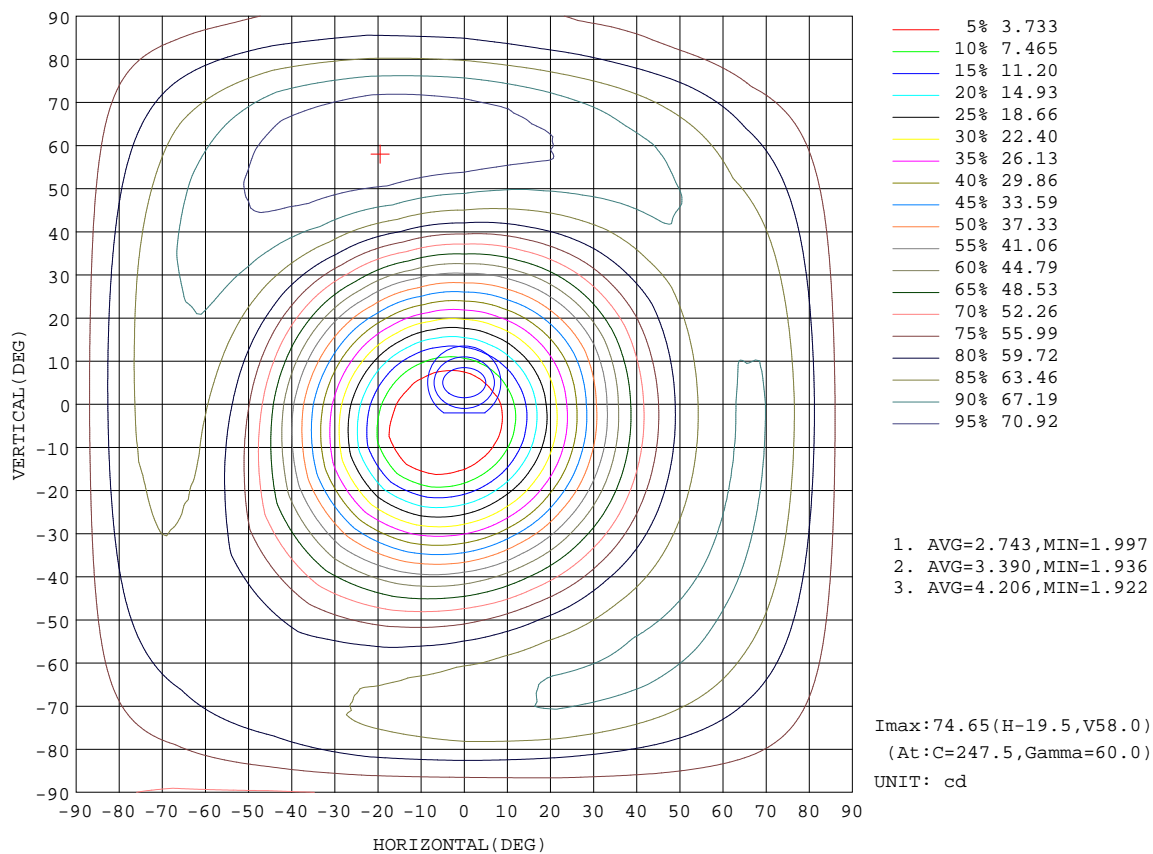
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	35	21	13	33	20	13	30	19	12	5
0.80	43	28	19	41	27	19	37	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	71	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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:546.169x1 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

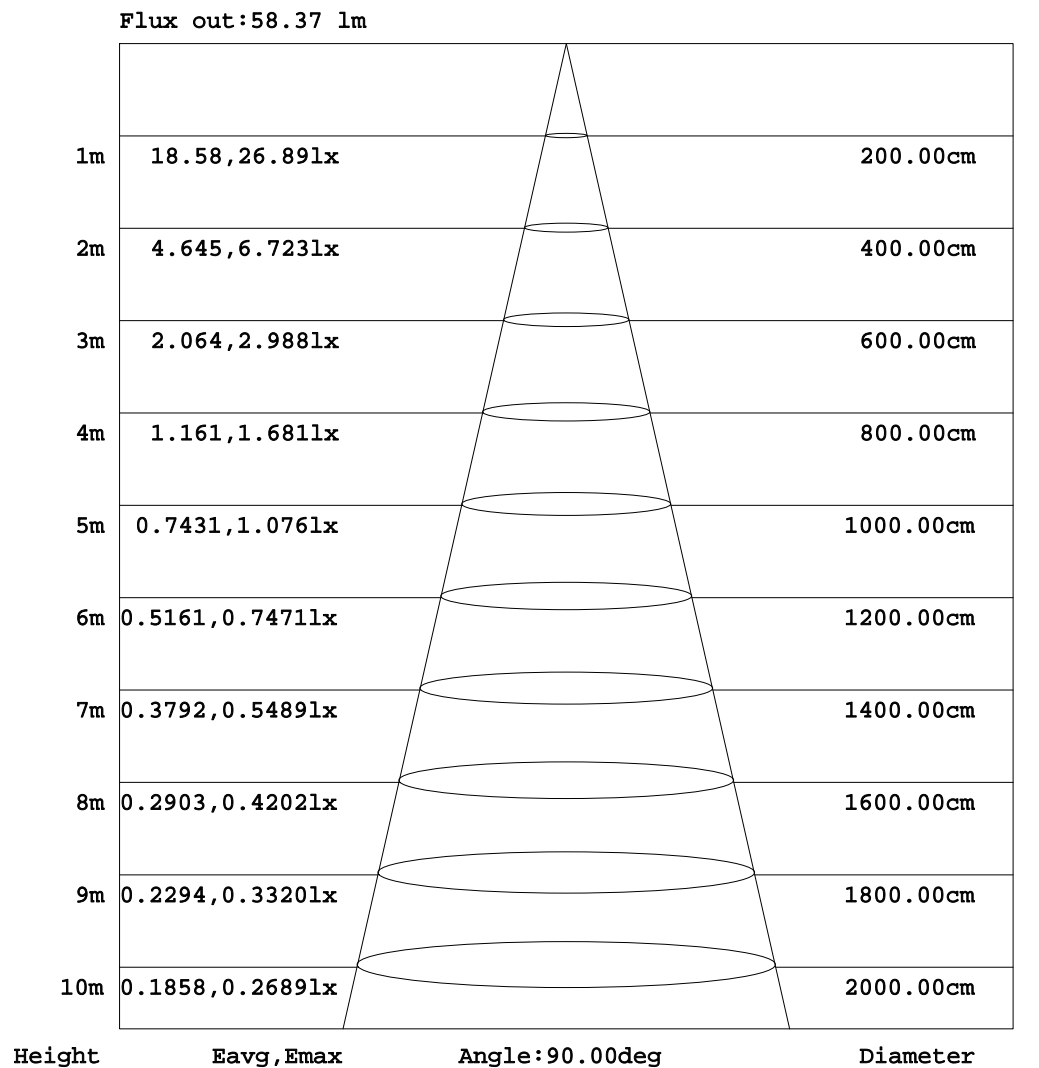


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2020-04-27

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:546.169x1 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



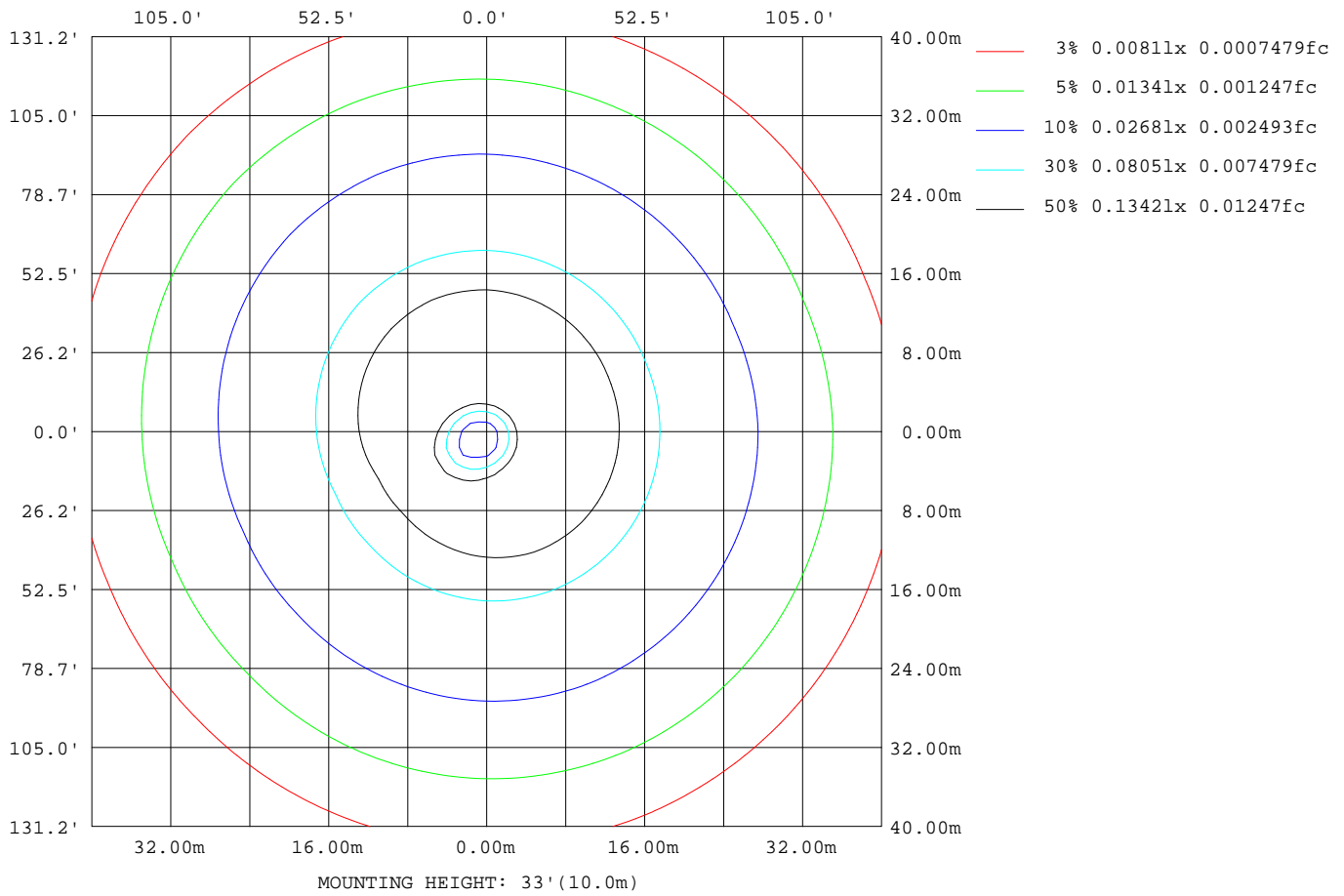
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

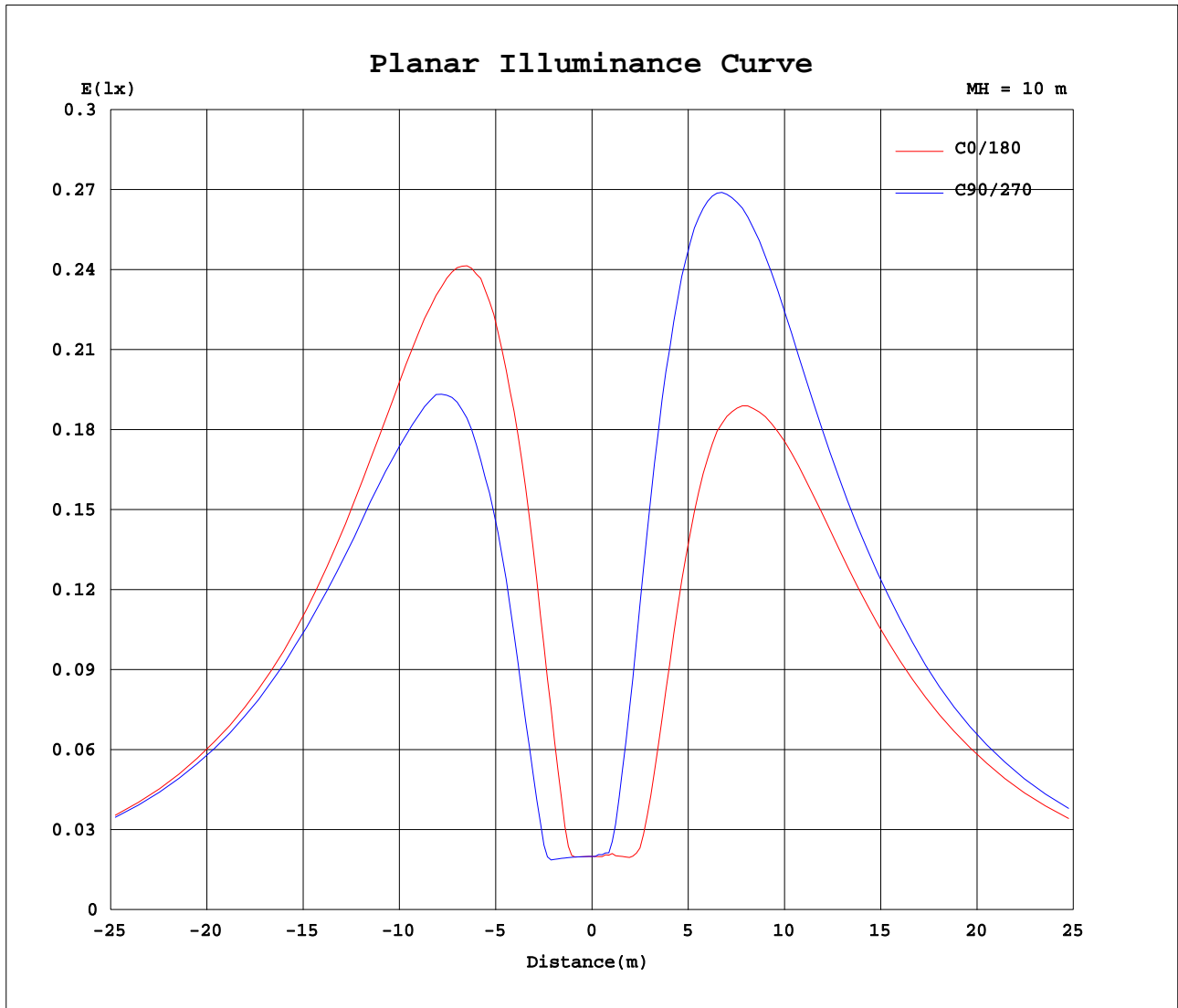
Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:546.169x1 lm		
NAME: NYX Bulb	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Astera LED Technology GmbH	SUR.:	Shielding Angle:N/A



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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:546.169x1 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	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99			
5	1.99	1.99	1.98	1.99	1.99	1.99	1.91	1.99	2.06	1.99	2.06	2.07	2.15	2.30	2.36	2.38			
10	5.45	4.11	2.79	1.99	1.99	1.99	1.91	1.99	2.06	2.28	3.54	5.32	6.57	7.23	7.24	6.89			
15	12.2	10.6	8.41	6.00	3.60	1.99	1.91	1.99	3.12	5.98	9.29	12.3	14.1	14.9	14.7	14.3			
20	20.2	18.3	16.1	13.2	9.75	6.59	4.49	5.11	8.59	13.1	17.5	21.0	22.9	23.3	22.6	22.2			
25	28.0	26.1	23.9	21.2	17.7	14.1	11.8	12.7	16.5	21.6	26.5	30.1	31.8	31.6	30.5	30.1			
30	36.3	34.5	32.4	29.5	25.8	22.4	20.2	21.6	25.1	30.4	35.6	39.1	40.3	39.8	38.3	38.0			
35	43.6	42.2	40.4	38.0	34.5	31.0	28.8	30.5	33.5	39.0	44.2	47.7	48.6	47.7	45.9	45.7			
40	50.0	48.8	47.3	45.3	42.3	39.2	37.1	39.2	41.6	47.3	52.6	56.0	56.6	55.2	53.1	53.0			
45	55.7	54.7	53.6	51.8	48.9	46.0	44.0	46.4	49.5	55.0	60.1	63.1	63.2	61.3	58.8	58.9			
50	60.4	59.5	58.8	57.4	54.9	52.1	50.0	52.5	55.9	61.1	65.8	68.4	67.9	65.7	62.9	63.2			
55	63.6	63.2	62.6	61.7	59.5	56.8	54.9	57.4	60.4	65.3	69.8	72.1	71.4	69.0	66.2	66.6			
60	65.9	65.8	65.4	64.7	62.7	60.4	58.6	61.0	63.5	68.2	72.6	74.3	73.1	70.8	68.2	68.6			
65	67.1	67.0	67.0	67.0	65.0	62.5	60.6	63.1	64.8	69.0	72.9	74.1	73.0	70.4	68.1	68.6			
70	66.8	67.0	67.1	67.2	65.7	63.6	61.7	64.0	64.8	68.4	71.7	72.5	71.1	68.6	66.5	67.4			
75	64.2	64.5	65.2	65.6	64.9	63.5	61.7	64.0	63.6	66.5	68.8	68.9	67.5	65.5	63.8	64.8			
80	60.5	60.8	61.3	61.9	61.9	61.1	59.8	62.0	61.3	63.3	64.2	64.0	62.9	61.1	59.9	61.1			
85	56.3	56.5	57.0	57.2	57.1	57.1	56.4	58.5	57.6	58.4	59.5	60.0	59.4	57.8	56.1	56.6			
90	54.3	54.2	54.0	53.8	53.0	52.3	51.8	53.7	52.6	54.1	55.9	57.0	56.9	55.8	54.4	55.1			
95	53.9	53.2	52.6	51.9	50.7	49.5	48.1	49.4	49.2	51.5	53.9	55.3	55.7	55.4	54.2	54.8			
100	53.0	52.5	52.0	50.9	49.5	48.1	47.0	48.8	48.2	50.6	52.9	54.3	55.0	53.9	52.9	53.7			
105	51.7	51.6	51.3	51.3	50.2	49.1	48.1	47.5	47.5	49.5	51.8	54.3	55.0	53.9	52.9	53.7			
110	49.8	50.0	50.5	49.3	47.3	46.3	45.1	47.2	46.7	48.4	51.8	54.3	55.0	53.9	52.9	53.7			
115	38.5	26.6	20.4	48.7	47.3	46.0	21.2	21.3	36.8	24.3	25.1	50.5	49.7	48.9	21.8	29.6			
120	5.45	5.58	45.3	46.8	45.7	44.7	42.3	8.38	6.41	8.16	46.7	48.3	47.5	45.7	44.7	6.32			
125	23.2	32.5	44.4	44.8	43.9	42.8	41.7	29.8	21.1	34.3	44.5	45.4	44.7	41.7	41.9	28.2			
130	32.2	28.1	41.7	42.3	24.9	40.9	39.8	24.7	32.4	29.6	41.9	42.3	22.8	38.1	38.7	21.4			
135	29.1	18.5	38.4	37.7	21.2	38.1	37.5	16.1	30.5	19.6	38.7	36.9	19.7	31.3	35.2	12.4			
140	25.4	10.8	34.3	20.5	20.4	22.8	34.0	9.58	28.2	10.7	34.5	22.8	19.0	17.1	29.8	7.56			
145	21.6	6.26	27.9	7.35	1.88	6.55	27.5	7.57	25.3	7.73	26.3	11.7	11.6	2.33	22.4	4.89			
150	16.2	5.08	20.3	21.0	16.6	19.7	19.8	7.34	22.5	9.74	15.8	8.83	18.0	19.5	17.6	4.81			
155	14.4	5.00	6.01	22.0	14.4	21.8	7.36	7.26	19.4	13.6	6.46	8.32	16.2	17.0	4.49	2.45			
160	10.0	5.00	0.00	12.2	7.77	12.6	0.08	7.64	16.2	14.5	4.99	6.29	12.3	9.21	5.78	2.19			
165	0.05	0.01	0.59	0.07	0.01	0.30	2.12	0.10	8.03	7.45	0.09	0.00	2.05	0.50	0.43	0.00			
170	4.56	3.46	1.10	0.07	0.00	0.29	2.94	6.96	9.27	9.27	4.70	0.00	0.00	0.00	0.00	0.00			
175	0.76	0.67	0.08	0.00	0.00	0.00	0.83	2.46	3.29	3.51	1.07	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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