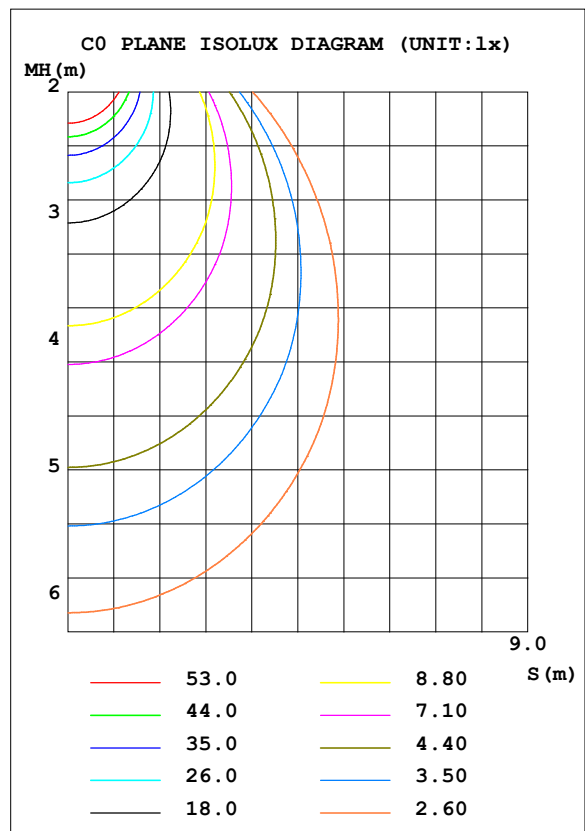
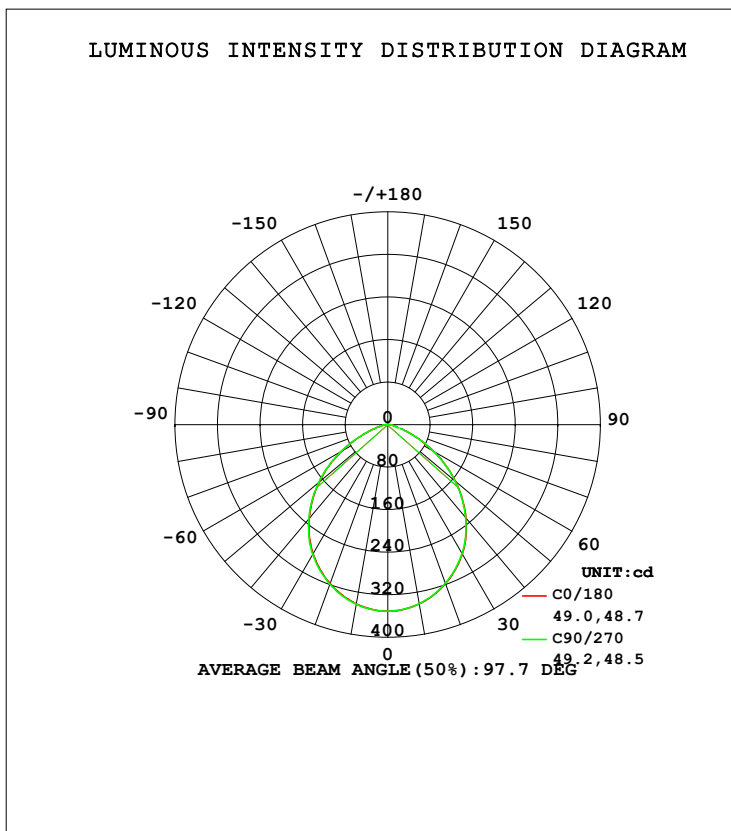


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.86 lm/W			
MODEL	ASD-LDLOBR-4D1050-WH	I <sub>max</sub> (cd)	350.9	S/MH (C0/180)	1.20
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	792.82	η UP, DN (C0-180)	0.0, 49.6
NOMINAL FLUX (lm)	792.818	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.0	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

### ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

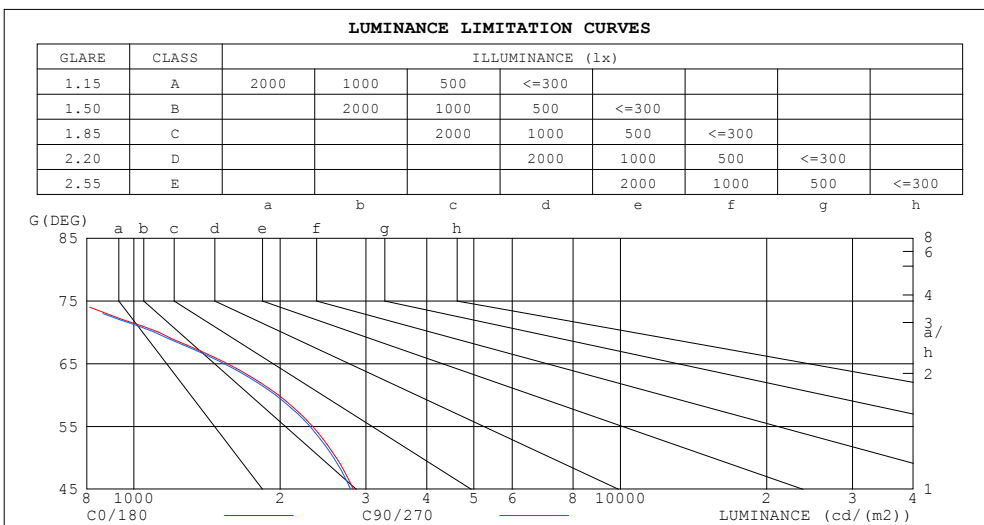
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	342.3	342.2	341.8	341.7	342.2	342.5	342.8	343.1	0- 10	33.08	33.08	4.17,4.17
20	318.1	317.7	317.2	317.1	318.0	318.6	319.0	319.2	10- 20	93.57	126.7	16,16
30	280.9	280.4	279.8	279.9	281.1	281.9	282.4	282.4	20- 30	138.6	265.2	33.5,33.5
40	228.8	228.2	227.6	227.9	229.7	230.6	231.1	230.7	30- 40	160.4	425.6	53.7,53.7
50	166.7	165.9	165.6	166.3	168.7	169.6	169.9	169.0	40- 50	153.6	579.2	73.1,73.1
60	98.49	97.88	97.80	98.74	101.3	102.0	102.1	101.2	50- 60	119.7	698.9	88.2,88.2
70	38.22	37.64	37.75	38.23	39.30	39.77	39.88	39.35	60- 70	66.60	765.5	96.6,96.6
80	10.07	9.917	9.873	9.966	10.22	10.31	10.36	10.34	70- 80	22.42	787.9	99.4,99.4
90	0.0114	0.0267	0.0242	0.0280	0.0153	0.0034	0.0024	0.0074	80- 90	4.567	792.5	100,100
100	0.0188	0.0251	0.0248	0.0314	0.0385	0.0128	0.0003	0.0040	90-100	0.0159	792.5	100,100
110	0.0417	0.0355	0.0371	0.0349	0.0772	0.0305	0.0141	0.0184	100-110	0.0292	792.5	100,100
120	0.0478	0.0843	0.0551	0.0662	0.0691	0.0572	0.0296	0.0633	110-120	0.0478	792.6	100,100
130	0.0527	0.1056	0.0806	0.0852	0.0665	0.0840	0.0295	0.0634	120-130	0.0610	792.6	100,100
140	0.0581	0.1057	0.1095	0.1149	0.0566	0.0927	0.0409	0.0642	130-140	0.0595	792.7	100,100
150	0.0931	0.1081	0.1382	0.1291	0.0480	0.0910	0.0675	0.0656	140-150	0.0490	792.8	100,100
160	0.0631	0.1330	0.1363	0.0752	0.0526	0.0932	0	0.0530	150-160	0.0376	792.8	100,100
170	0.0288	0.1432	0.1331	0.0669	0.0686	0.0376	0.0701	0.0427	160-170	0.0216	792.8	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0055	792.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:Nick  
 Test Date:19 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance:1.861m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	448	427
80	583	568
75	750	737
70	1124	1103
65	1554	1532
60	1980	1954
55	2330	2301
50	2608	2574
45	2824	2791

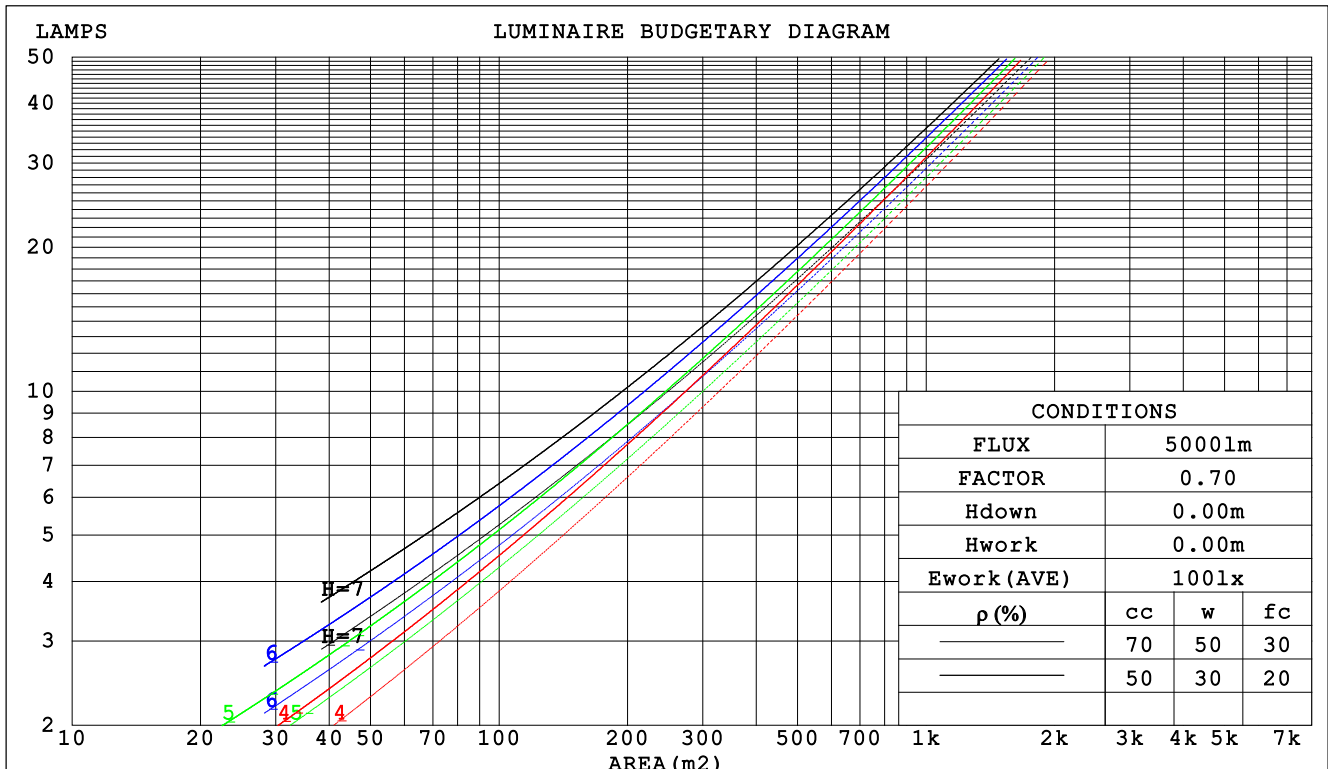
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.94	.88	.83	.93	.87	.82	.89	.84	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.82	.76	.70	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.59	.53	.67	.59	.53	.65	.58	.52	.63	.57	.52	.61	.56	.51	.49
6.0	.61	.53	.47	.60	.52	.47	.59	.52	.46	.57	.51	.46	.55	.50	.46	.44
7.0	.56	.48	.42	.55	.47	.42	.54	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.50	.43	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.35	.30	.29



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.262	.149	.047	.255	.145	.046	.242	.139	.044	.230	.132	.043	.219	.127	.041	
2.0	.254	.139	.043	.248	.136	.042	.236	.131	.041	.226	.127	.040	.216	.122	.039	
3.0	.240	.128	.038	.235	.126	.038	.225	.122	.037	.215	.118	.036	.207	.115	.035	
4.0	.225	.117	.034	.221	.116	.034	.212	.112	.034	.204	.109	.033	.196	.107	.032	
5.0	.211	.108	.031	.207	.106	.031	.199	.104	.031	.192	.101	.030	.185	.099	.030	
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.181	.094	.028	.175	.092	.027	
7.0	.186	.092	.026	.183	.091	.026	.176	.089	.026	.171	.087	.025	.165	.086	.025	
8.0	.175	.085	.024	.172	.085	.024	.166	.083	.024	.161	.082	.024	.156	.080	.023	
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.152	.076	.022	.148	.075	.022	
10.0	.156	.075	.021	.153	.074	.021	.149	.073	.021	.145	.072	.020	.141	.071	.020	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.016	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.099	.068	.094	.069	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.101	.062	.130	.087	.054	.089	.061	.038	.052	.036	.023	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.044	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.082	.042	.118	.071	.036	.081	.049	.026	.047	.029	.015	.015	.010	.005	
7.0	.131	.075	.035	.113	.065	.031	.078	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.107	.060	.027	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.027	.103	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.114	.060	.024	.098	.052	.021	.068	.036	.015	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

### UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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	15.4	16.8	15.7	17.0	17.2	15.4	16.8	15.7	17.0	17.2
3H	16.0	17.3	16.3	17.5	17.7	15.9	17.2	16.2	17.5	17.7
4H	16.1	17.3	16.4	17.5	17.8	16.0	17.2	16.3	17.5	17.7
6H	16.1	17.2	16.4	17.5	17.8	16.0	17.2	16.3	17.4	17.7
8H	16.1	17.2	16.4	17.4	17.7	16.0	17.1	16.3	17.4	17.7
12H	16.0	17.1	16.4	17.4	17.7	16.0	17.0	16.3	17.3	17.6
4H 2H	15.7	17.0	16.0	17.2	17.4	15.7	16.9	16.0	17.2	17.4
3H	16.4	17.4	16.7	17.7	18.0	16.3	17.4	16.7	17.7	18.0
4H	16.5	17.5	16.9	17.8	18.1	16.5	17.4	16.8	17.7	18.1
6H	16.6	17.4	17.0	17.8	18.1	16.5	17.4	16.9	17.7	18.1
8H	16.6	17.4	17.0	17.7	18.1	16.5	17.3	16.9	17.7	18.1
12H	16.6	17.3	17.0	17.7	18.1	16.5	17.2	17.0	17.6	18.0
8H 4H	16.5	17.3	16.9	17.7	18.0	16.5	17.2	16.9	17.6	18.0
6H	16.6	17.3	17.1	17.7	18.1	16.6	17.2	17.0	17.6	18.0
	16.7	17.2	17.1	17.7	18.1	16.6	17.2	17.1	17.6	18.0
	16.7	17.2	17.2	17.6	18.1	16.6	17.1	17.1	17.6	18.0
	16.5	17.2	16.9	17.6	18.0	16.4	17.1	16.9	17.5	17.9
	16.6	17.2	17.1	17.6	18.0	16.6	17.1	17.0	17.5	18.0
	16.7	17.1	17.1	17.6	18.1	16.6	17.1	17.1	17.5	18.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.6				
1.2H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				
2.0H	+ 0.8 / - 1.0					+ 0.8 / - 1.0				

12H 4H  
CIE Pub.117 Corrected 792.8 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.8)

8H

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Nick  
Test Date: 19 November 2018

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
Humidity: 55.0%  
Test Distance: 1.861m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

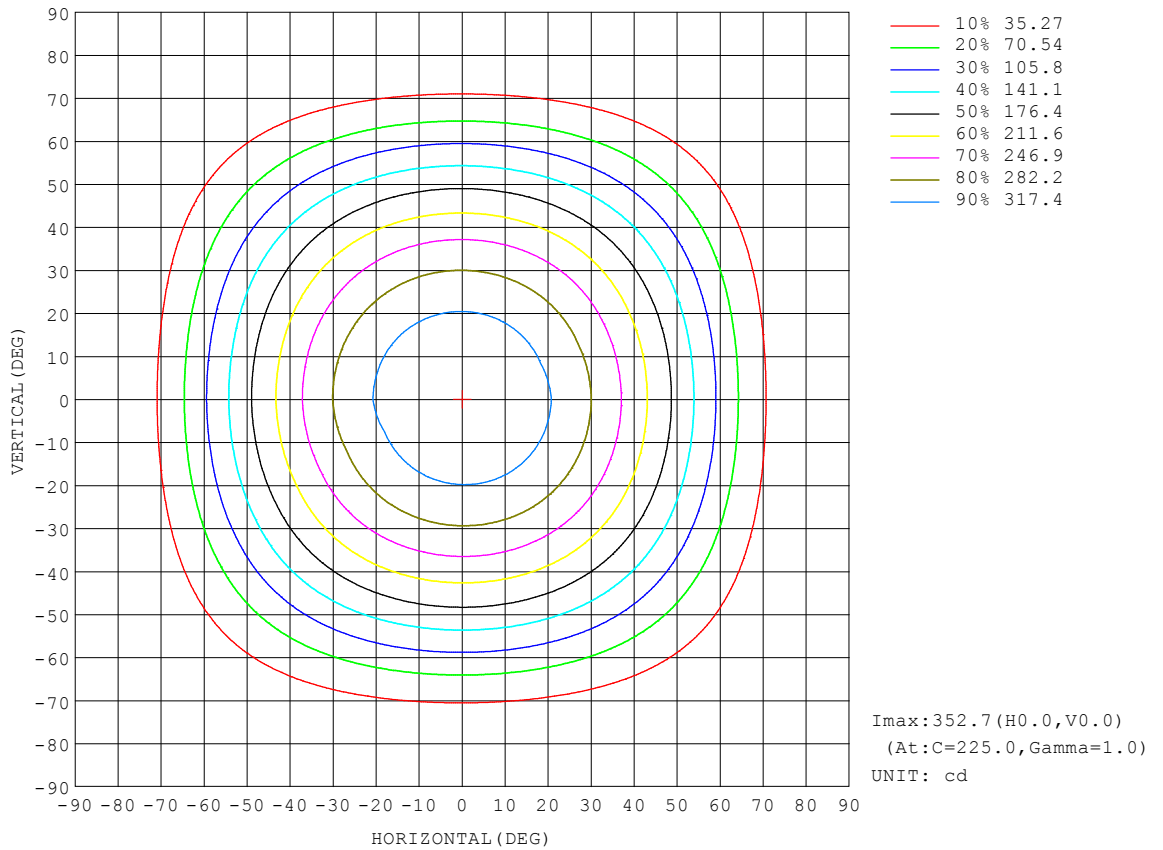
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	52	45	62	51	45	61	51	45	39
0.80	73	62	55	72	62	55	70	61	55	49
1.00	81	71	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	72	84	77	71	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	92	86	97	91	85	94	88	84	77
2.50	102	96	90	100	94	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	91	84
4.00	109	104	100	106	102	98	102	99	96	87
5.00	111	106	103	108	105	101	104	101	98	90
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: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



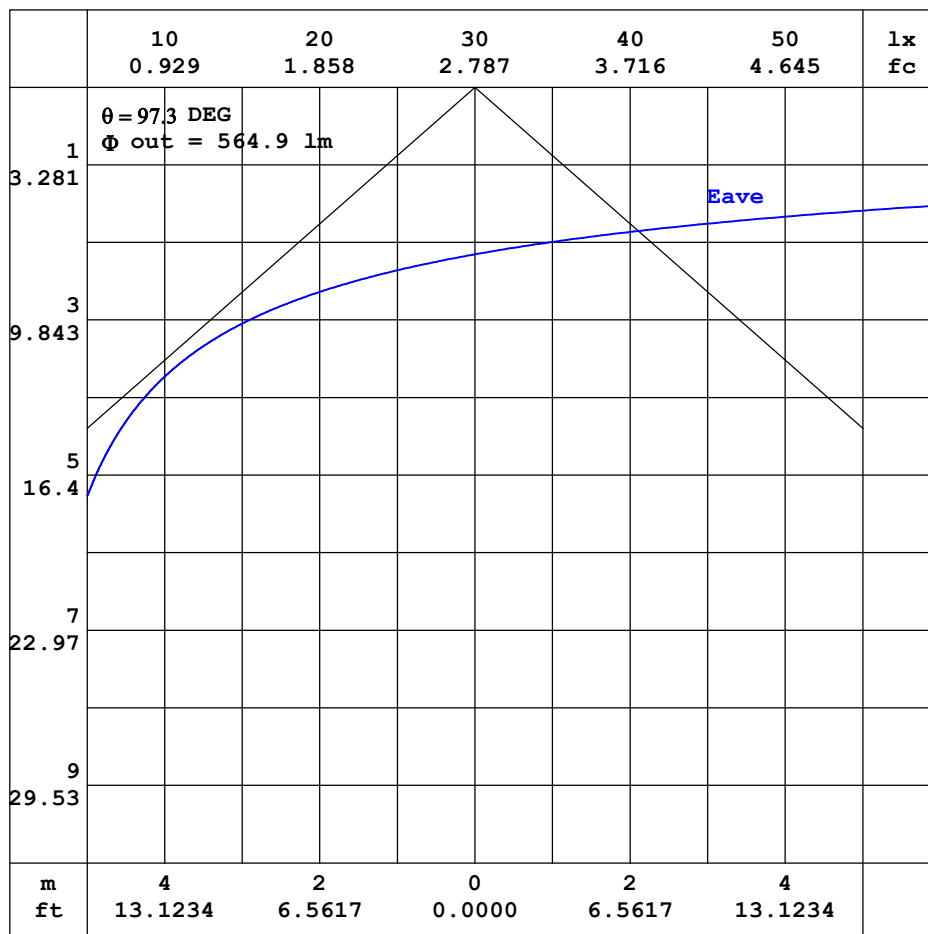
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:Nick  
 Test Date:19 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance:1.861m [K=1.0000]  
 Remarks:



AAI CURVES

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



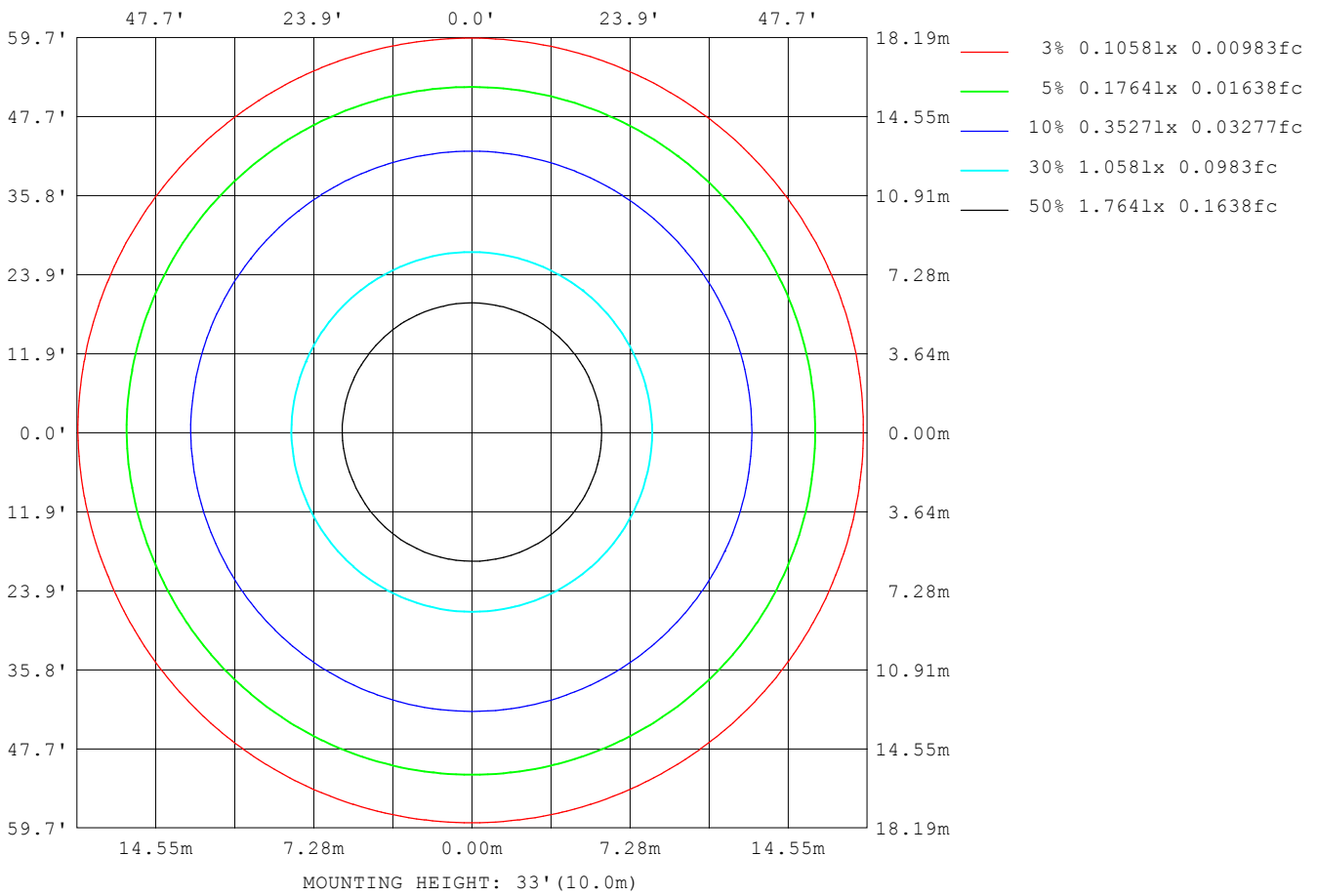
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

### LED Avg.L Report

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

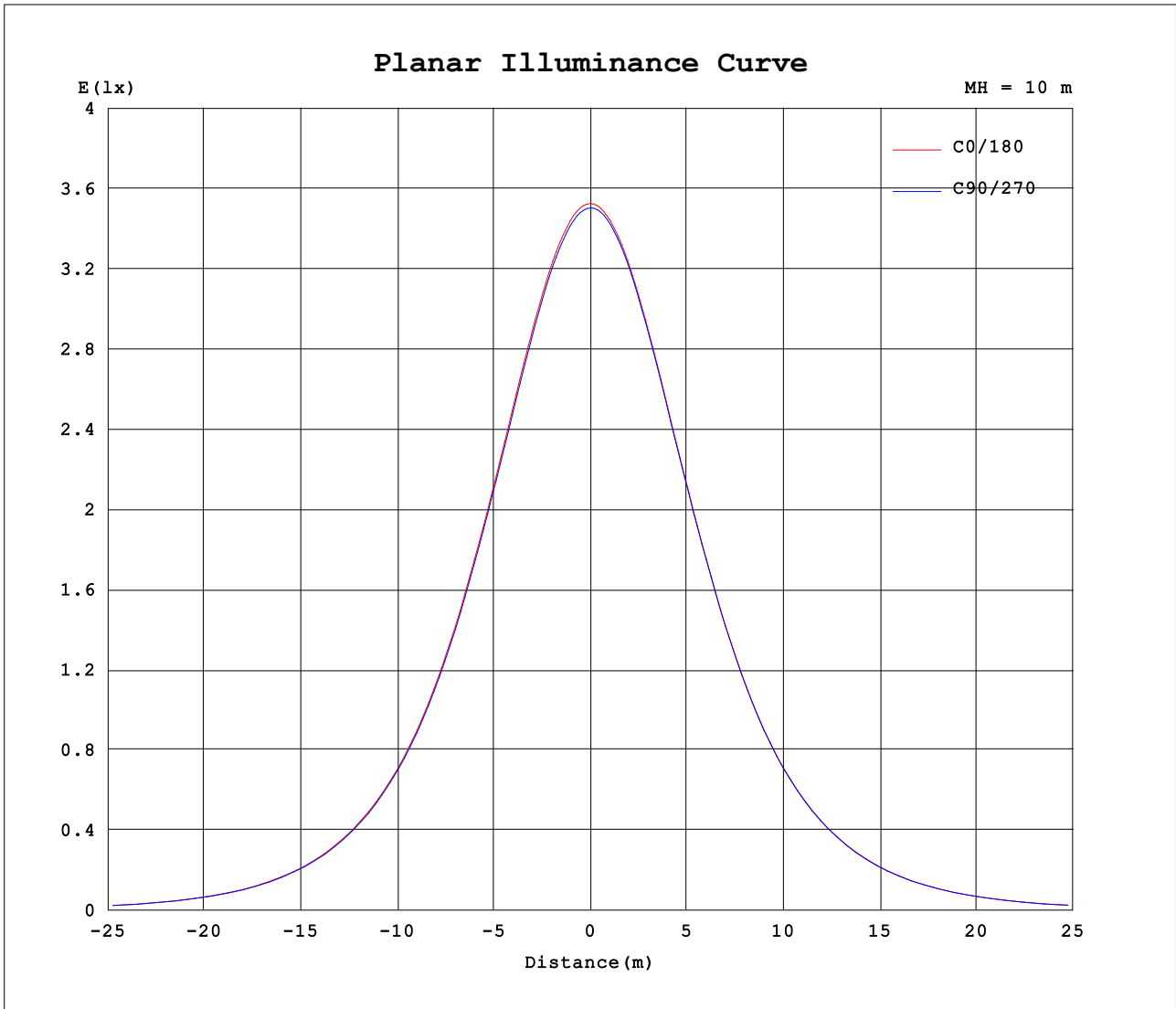
AvgL	cd/m2
L_0~180 (65) av	1573
L_0~180 (75) av	764
L_0~180 (85) av	440
L_90~270 (65) av	1577
L_90~270 (75) av	764
L_90~270 (85) av	440
L_45 (65) av	1576
L_45 (75) av	765
L_45 (85) av	440

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Nick  
 Test Date: 19 November 2018

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.353  
 Humidity: 55.0%  
 Test Distance: 1.861m [K=1.0000]  
 Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.0V I:0.0810A P:9.685W PF:0.9961 Freq:60.01Hz Lamp Flux:792.818x1 lm		
NAME: ASD-LDLOBR-4D1050-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

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	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351			
5	349	349	349	349	348	348	349	348	349	349	349	349	349	349	349	349			
10	342	342	342	342	342	342	342	342	342	342	343	343	343	343	343	343			
15	332	332	332	332	331	331	331	331	332	332	332	333	333	333	333	333			
20	318	318	318	317	317	317	317	317	318	318	319	319	319	319	319	319			
25	301	301	301	300	300	300	300	300	301	301	302	302	302	302	302	302			
30	281	281	280	280	280	280	280	280	281	282	282	282	282	282	282	282			
35	257	256	256	256	255	255	256	256	257	257	258	258	259	258	258	258			
40	229	228	228	228	228	227	228	228	230	230	231	231	231	231	231	230			
45	199	198	198	198	198	198	198	199	200	201	201	201	202	201	201	201			
50	167	166	166	166	166	166	166	167	169	169	170	170	170	170	169	169			
55	133	132	132	132	132	132	133	133	135	136	136	137	136	136	135	135			
60	98.5	98.2	97.9	97.8	97.8	98.3	98.7	99.2	101	102	102	102	102	102	101	101			
65	65.3	65.0	64.8	64.7	64.8	65.1	65.6	66.0	67.6	68.0	68.4	68.5	68.5	68.2	67.7	67.1			
70	38.2	38.0	37.6	37.6	37.7	38.0	38.2	38.5	39.3	39.6	39.8	39.9	39.9	39.7	39.3	39.0			
75	19.3	19.1	19.1	19.0	19.1	19.2	19.4	19.5	20.2	20.4	20.4	20.5	20.5	20.4	20.3	20.1			
80	10.1	9.99	9.92	9.87	9.87	9.91	9.97	10.00	10.2	10.3	10.3	10.4	10.4	10.4	10.3	10.3			
85	3.88	3.86	3.82	3.77	3.72	3.70	3.70	3.68	3.80	3.81	3.85	3.90	3.94	3.96	3.99	4.00			
90	0.01	0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01			
95	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01			
100	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.03	0.04	0.03	0.01	0.01	0.00	0.01	0.00	0.01			
105	0.03	0.02	0.03	0.04	0.03	0.03	0.03	0.03	0.06	0.04	0.02	0.02	0.01	0.02	0.01	0.03			
110	0.04	0.02	0.04	0.05	0.04	0.04	0.03	0.04	0.08	0.05	0.03	0.03	0.01	0.03	0.02	0.03			
115	0.05	0.03	0.07	0.06	0.05	0.05	0.05	0.04	0.08	0.07	0.04	0.04	0.02	0.05	0.04	0.06			
120	0.05	0.05	0.08	0.07	0.06	0.06	0.07	0.04	0.07	0.09	0.06	0.05	0.03	0.05	0.06	0.08			
125	0.05	0.07	0.10	0.08	0.07	0.07	0.08	0.05	0.07	0.09	0.07	0.07	0.02	0.07	0.08	0.07			
130	0.05	0.08	0.11	0.09	0.08	0.09	0.09	0.06	0.07	0.09	0.08	0.08	0.03	0.08	0.06	0.05			
135	0.06	0.09	0.11	0.08	0.09	0.10	0.10	0.08	0.06	0.08	0.09	0.09	0.04	0.08	0.05	0.03			
140	0.06	0.10	0.11	0.07	0.11	0.11	0.11	0.09	0.06	0.07	0.09	0.10	0.04	0.07	0.06	0.01			
145	0.07	0.11	0.11	0.07	0.12	0.08	0.13	0.10	0.05	0.06	0.09	0.02	0.05	0.06	0.07	0.02			
150	0.09	0.12	0.11	0.08	0.14	0.07	0.13	0.11	0.05	0.06	0.09	0.02	0.07	0.06	0.07	0.03			
155	0.09	0.14	0.11	0.08	0.10	0.05	0.10	0.13	0.05	0.05	0.09	0.10	0.12	0.05	0.06	0.04			
160	0.06	0.16	0.13	0.10	0.14	0.04	0.08	0.13	0.05	0.07	0.09	0.11	0.00	0.05	0.05	0.04			
165	0.06	0.14	0.15	0.09	0.09	0.09	0.04	0.15	0.07	0.07	0.07	0.08	0.00	0.02	0.04	0.03			
170	0.03	0.10	0.14	0.12	0.13	0.14	0.07	0.10	0.07	0.06	0.04	0.09	0.07	0.01	0.04	0.04			
175	0.00	0.01	0.05	0.07	0.04	0.08	0.09	0.07	0.06	0.06	0.07	0.10	0.05	0.01	0.01	0.01			
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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 C Interval: 22.5DEG  
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