

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P192944

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22578.4 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

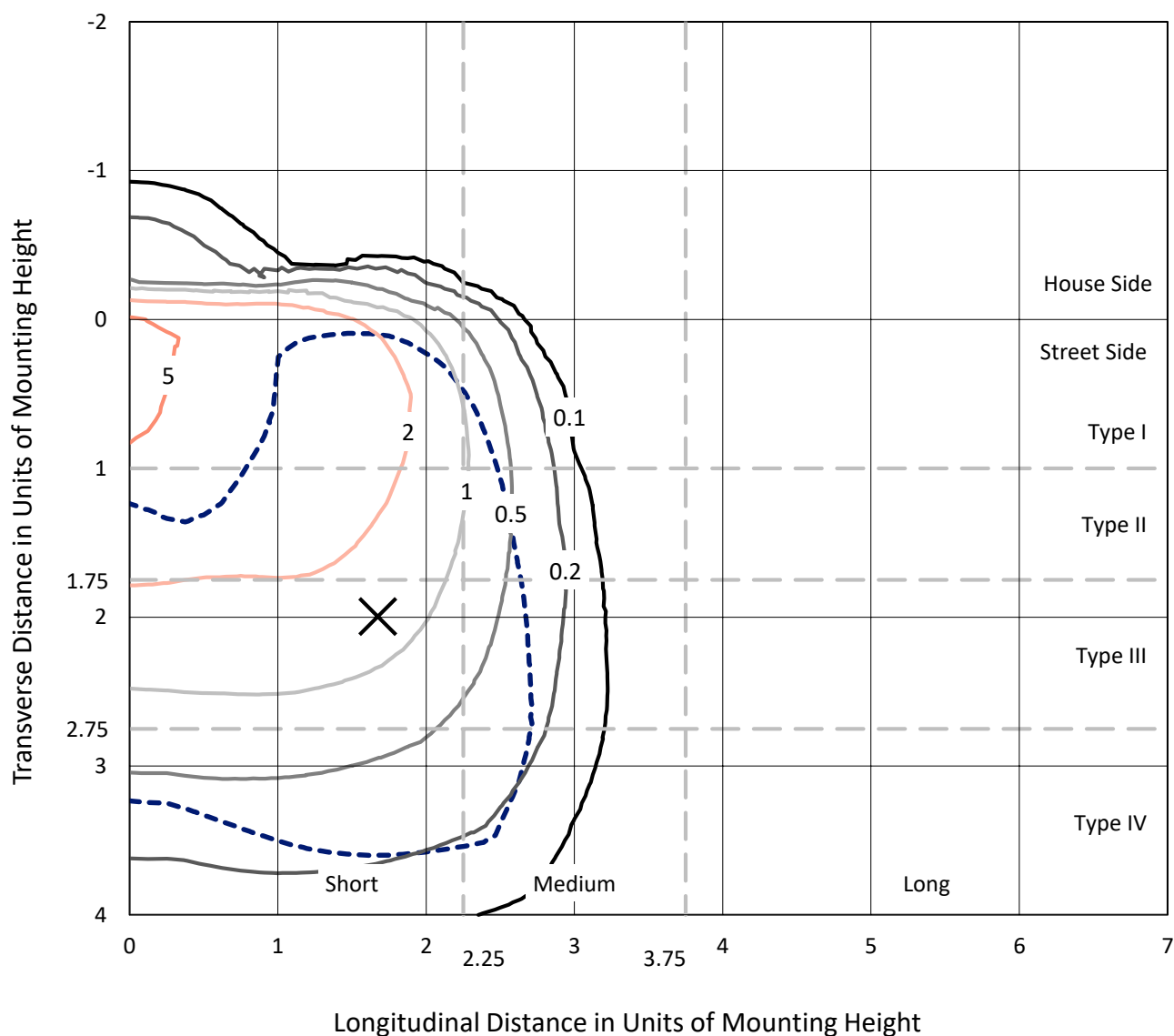


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

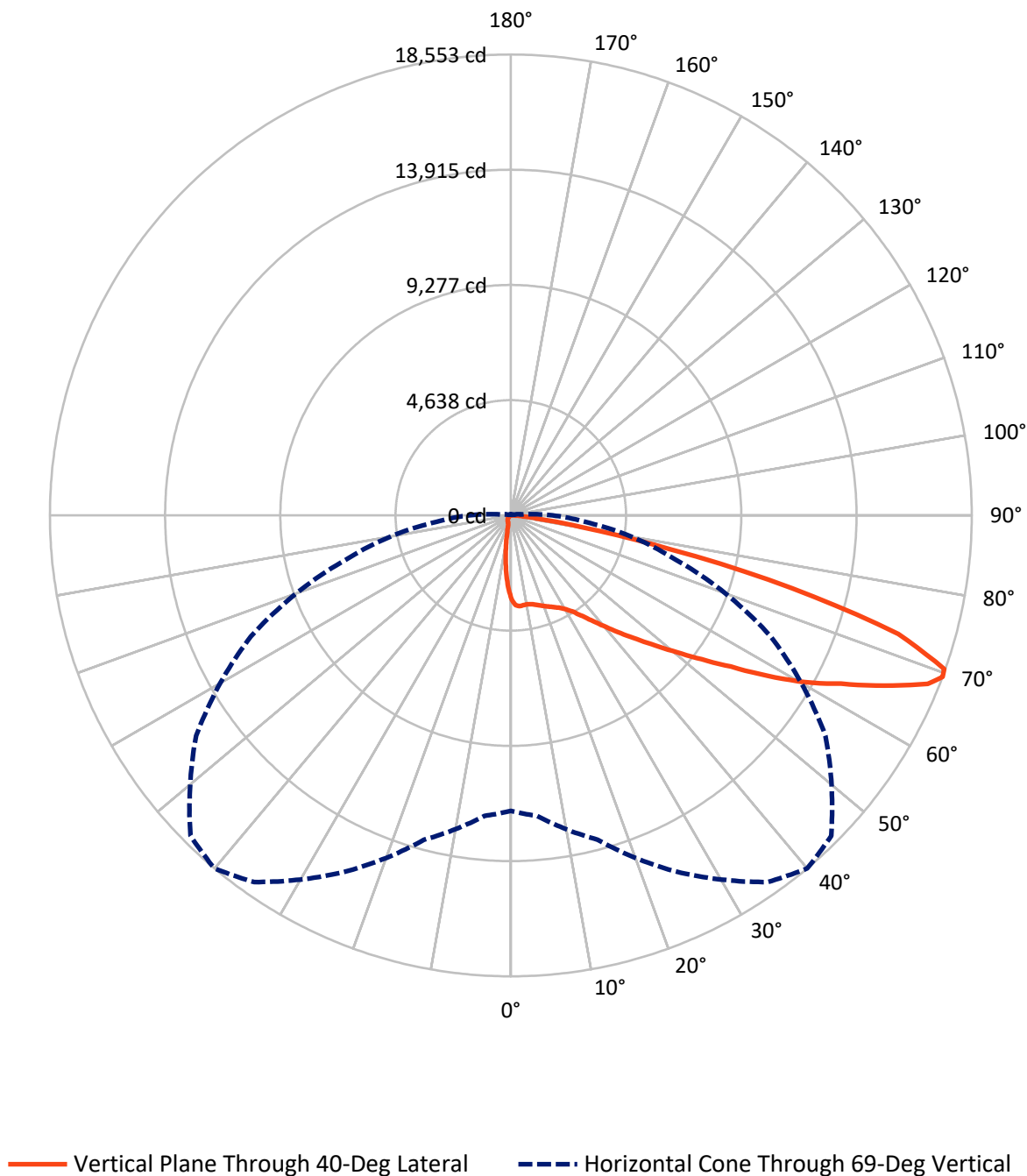


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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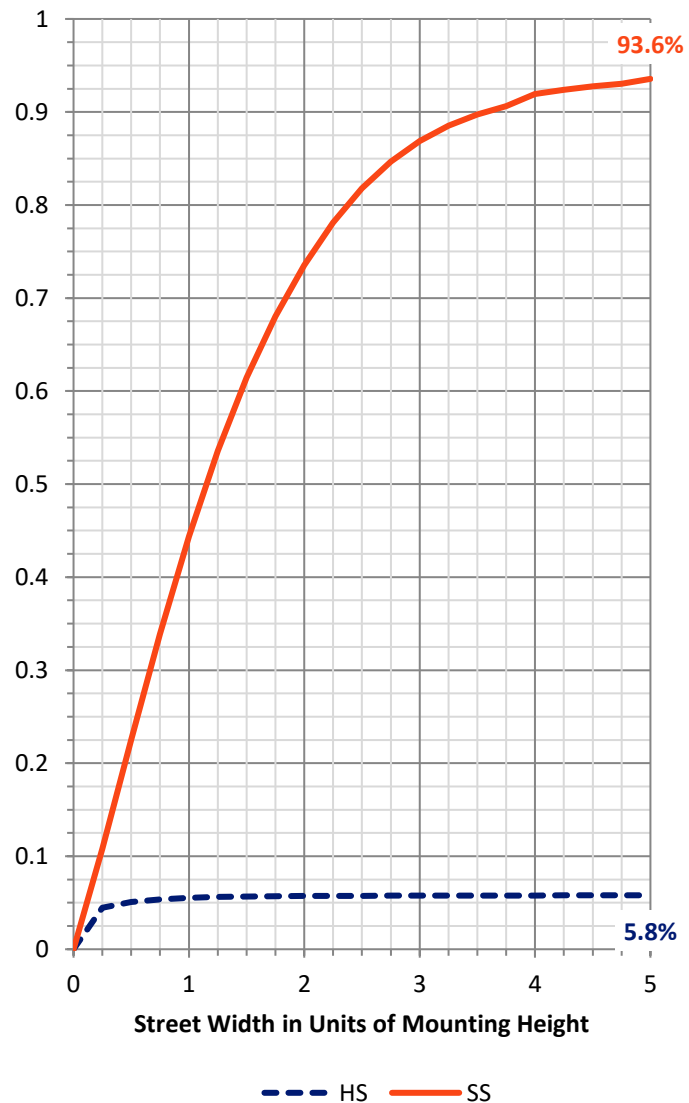
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1321.0	0.0	1321.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21257.5	0.0	21257.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	22578.4	0.0	22578.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	1.2
10°-20°	672.6	3.0
20°-30°	1132.9	5.0
30°-40°	1854.6	8.2
40°-50°	3211.2	14.2
50°-60°	5058.0	22.4
60°-70°	6605.5	29.3
70°-80°	3402.1	15.1
80°-90°	368.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22578.4	100.0
0°-180°	22578.4	100.0

Coefficient of Utilization



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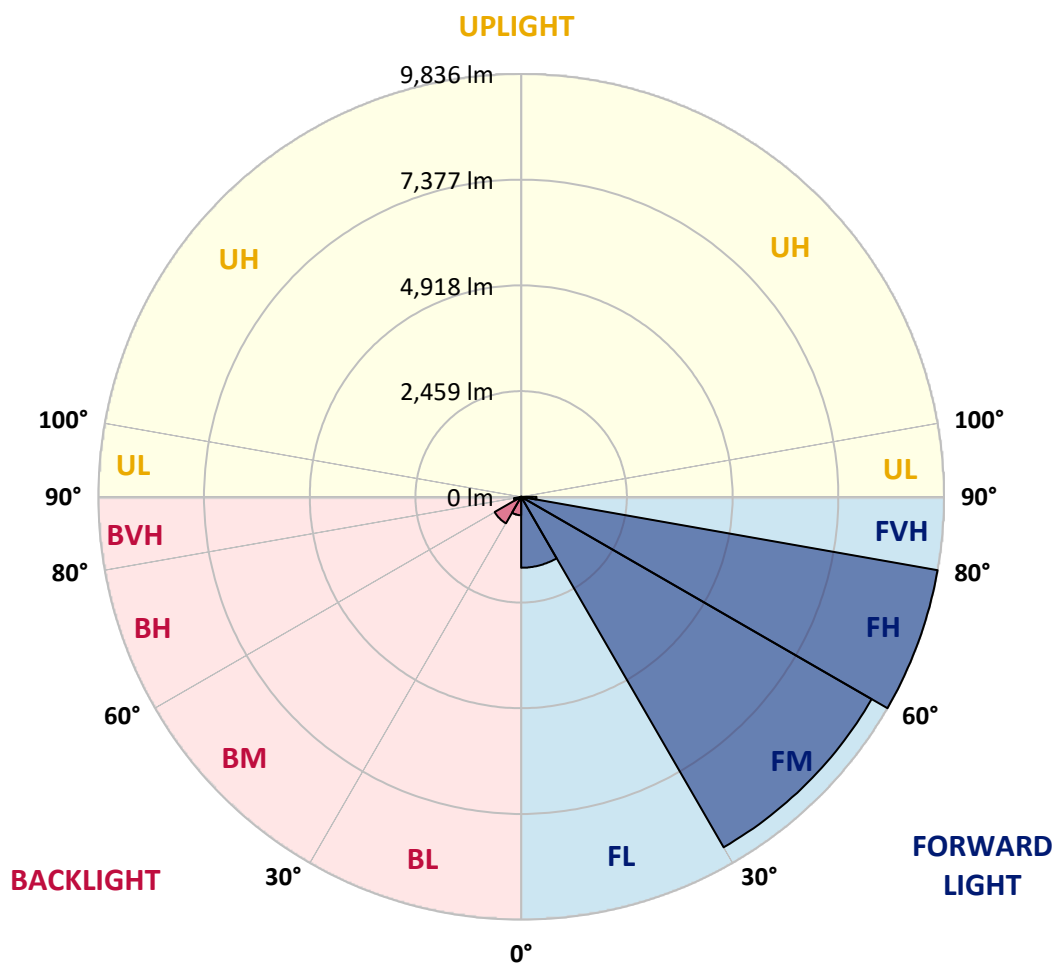
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.1	7.3			
FM	(30°-60°)	9413.8	41.7			
FH	(60°-80°)	9836.1	43.6			G4/12000
FVH	(80°-90°)	356.5	1.6			G3/500
BL	(0°-30°)	427.9	1.9	B1/500		
BM	(30°-60°)	710.0	3.1	B1/1000		
BH	(60°-80°)	171.5	0.8	B1/500		G1/500
BVH	(80°-90°)	11.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4
2.5°	3704.0	3683.7	3671.6	3655.6	3635.4	3617.9	3611.2	3561.6	3514.5	3450.0	3376.0
5°	3772.5	3765.7	3744.4	3722.8	3698.5	3671.6	3656.9	3597.8	3530.6	3436.5	3307.5
7.5°	3779.2	3771.2	3744.4	3714.7	3681.1	3648.8	3623.2	3564.1	3502.3	3406.9	3249.7
10°	3768.5	3759.1	3738.9	3706.6	3665.0	3634.1	3608.5	3552.1	3499.7	3413.7	3239.0
12.5°	3756.4	3746.9	3737.5	3721.4	3685.1	3663.7	3642.1	3588.4	3541.3	3468.8	3277.9
15°	3768.5	3763.1	3773.9	3767.2	3746.9	3728.2	3706.6	3658.2	3615.3	3554.7	3349.2
17.5°	3819.4	3819.4	3853.1	3857.2	3838.4	3811.5	3780.6	3732.2	3695.9	3644.8	3433.8
20°	3939.2	3935.1	3978.1	3986.3	3940.4	3898.8	3853.1	3794.0	3765.7	3733.5	3517.2
22.5°	4144.8	4125.9	4151.6	4143.4	4053.4	3988.8	3932.5	3859.8	3845.1	3830.3	3609.8
25°	4412.2	4401.5	4418.9	4339.7	4181.1	4093.7	4026.5	3944.5	3944.5	3959.3	3714.7
27.5°	4800.7	4760.3	4701.2	4561.3	4323.5	4212.0	4139.4	4052.0	4074.9	4130.0	3853.1
30°	5198.4	5154.1	5018.4	4803.2	4496.9	4379.9	4295.3	4203.9	4257.7	4358.5	4038.6
32.5°	5590.9	5541.1	5348.9	5077.5	4745.5	4628.6	4546.6	4445.8	4535.9	4705.1	4310.1
35°	5971.2	5926.9	5705.1	5385.3	5076.0	4979.4	4904.1	4816.7	4932.3	5168.8	4693.1
37.5°	6398.6	6350.1	6080.1	5733.3	5477.9	5408.2	5352.9	5265.6	5467.3	5814.0	5226.6
40°	6924.1	6842.1	6477.9	6132.5	5942.9	5909.4	5871.7	5859.7	6172.8	6652.6	5937.5
42.5°	7526.3	7391.7	6894.5	6553.2	6453.7	6477.9	6468.4	6522.2	7055.8	7695.4	6803.1
45°	8128.3	7954.8	7358.2	7002.0	7015.4	7100.1	7152.5	7367.6	8161.8	8891.6	7734.5
47.5°	8638.9	8468.2	7803.0	7487.2	7648.4	7815.1	7957.6	8364.8	9298.8	10068.9	8458.9
50°	9075.7	8914.5	8274.8	8020.7	8383.6	8652.4	8883.6	9487.0	10521.8	10965.4	8966.9
52.5°	9433.2	9325.8	8763.9	8632.2	9223.5	9617.3	9956.0	10679.1	11605.1	11693.8	9362.0
55°	9781.3	9704.7	9289.4	9359.3	10210.1	10746.3	11175.0	11943.7	12537.8	12301.3	9741.0
57.5°	10181.9	10112.0	9888.8	10281.3	11506.9	12181.7	12649.3	13064.5	13358.9	12922.2	10098.5
60°	10590.4	10550.1	10555.4	11305.4	12996.1	13643.9	13901.9	14009.4	14165.4	13506.7	10118.6
62.5°	10980.1	11056.7	11317.5	12445.0	14422.0	14919.3	15049.6	15155.8	14973.0	13599.5	9348.6
65°	11640.1	11765.0	12387.3	13970.4	15990.4	16522.6	16657.0	16292.7	15100.7	12400.7	7604.1
67.5°	11962.6	12191.0	13301.1	15392.3	17511.7	18103.0	18053.4	16366.7	13551.1	9456.1	4879.9
69°	11895.4	12138.6	13512.1	15827.8	18017.1	18553.4	18237.5	15462.3	11544.6	6850.1	2995.7
70°	11629.2	11875.2	13403.3	15811.7	18081.7	18506.4	17896.1	14345.4	9761.1	5008.9	1873.5
72.5°	9711.4	9923.8	11899.4	14291.6	16657.0	16311.7	14971.7	9938.6	4756.3	1364.1	422.0
75°	5977.9	6096.2	8538.2	10766.4	12580.7	11693.8	9974.9	4944.4	1417.8	385.6	233.9
77.5°	3158.2	3212.0	4674.3	6346.3	7975.1	6598.8	5112.5	1928.5	653.2	241.9	169.4
80°	1866.8	1907.1	2517.3	2901.6	3451.3	2882.8	2044.1	1184.1	467.7	151.9	150.6
82.5°	1068.4	1094.0	1825.0	1612.7	1360.1	1161.2	1017.4	1122.2	280.9	102.1	155.9
85°	392.5	397.8	1026.8	1227.0	809.1	481.2	505.4	930.1	75.3	64.5	122.3
87.5°	182.8	178.7	528.2	751.2	473.1	305.1	393.8	204.4	29.6	41.6	33.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4	3373.4
2.5°	3333.1	3283.2	3193.2	3100.6	3006.5	2933.8	2862.6	2806.3	2787.3	2752.5	2755.1
5°	3230.9	3139.4	2951.3	2760.4	2561.6	2397.5	2243.1	2118.1	2057.6	1995.7	1995.7
7.5°	3142.2	3009.1	2714.8	2404.4	2083.1	1813.0	1569.7	1386.9	1286.2	1205.5	1204.1
10°	3108.5	2928.4	2517.3	2072.4	1624.8	1256.6	967.6	782.2	686.8	625.0	622.2
12.5°	3123.4	2900.3	2365.4	1765.9	1204.1	807.8	560.4	440.9	400.6	381.7	381.7
15°	3166.4	2892.2	2213.5	1466.3	850.7	505.4	372.2	340.1	337.3	337.3	337.3
17.5°	3218.8	2895.0	2057.6	1174.6	579.3	361.5	321.2	317.2	319.9	319.9	319.9
20°	3272.6	2896.3	1889.6	904.4	408.5	314.4	302.4	301.0	303.7	303.7	305.1
22.5°	3338.4	2902.9	1721.6	676.0	337.3	296.9	287.6	287.6	289.0	289.0	287.6
25°	3413.7	2916.3	1546.9	501.3	307.8	284.9	276.9	275.6	276.9	275.6	274.1
27.5°	3507.8	2935.2	1352.0	392.5	294.4	272.8	266.1	266.1	264.7	263.5	262.1
30°	3626.0	2956.7	1132.9	333.3	280.9	262.1	255.3	254.0	252.7	249.9	249.9
32.5°	3806.0	3003.7	916.5	302.4	266.1	247.3	241.9	241.9	239.3	236.5	235.2
35°	4082.9	3096.5	723.1	283.5	249.9	231.2	224.4	224.4	221.8	220.3	219.1
37.5°	4466.0	3237.6	561.8	266.1	233.9	213.7	206.9	205.6	202.9	200.3	198.9
40°	4975.3	3412.2	442.2	249.9	217.8	196.2	190.8	188.2	182.8	178.7	178.7
42.5°	5615.1	3611.2	358.8	232.5	198.9	180.1	176.0	172.0	162.6	158.5	157.3
45°	6284.4	3789.9	303.7	212.3	180.1	164.0	161.2	154.6	142.5	138.4	138.4
47.5°	6766.9	3831.6	267.4	193.5	162.6	146.5	145.1	133.1	122.3	119.6	118.2
50°	7067.9	3749.7	237.8	174.7	146.5	130.3	126.3	111.6	104.8	102.1	100.8
52.5°	7270.7	3603.2	213.7	158.5	131.6	115.6	106.2	95.4	90.0	87.4	87.4
55°	7433.5	3396.3	189.4	143.7	119.6	103.5	90.0	82.0	76.6	74.0	74.0
57.5°	7479.2	3115.3	165.3	131.6	107.5	91.3	76.6	71.2	64.5	63.2	63.2
60°	7147.2	2608.7	146.5	116.9	96.8	79.3	67.2	60.5	53.7	52.5	51.1
62.5°	6272.2	2018.7	129.0	103.5	84.6	68.5	57.8	49.7	44.4	44.4	44.4
65°	4784.5	1353.4	112.9	90.0	74.0	57.8	49.7	40.3	37.5	37.5	39.0
67.5°	2864.0	736.5	96.8	76.6	63.2	48.4	41.6	35.0	33.7	35.0	35.0
69°	1678.5	432.7	87.4	68.5	55.0	43.0	36.3	30.9	33.7	35.0	35.0
70°	1036.3	291.6	80.7	61.8	49.7	39.0	33.7	29.6	32.2	33.7	33.7
72.5°	289.0	150.6	64.5	48.4	40.3	32.2	26.9	26.9	30.9	32.2	32.2
75°	188.2	111.6	49.7	36.3	30.9	25.5	22.8	25.5	29.6	30.9	30.9
77.5°	155.9	91.3	40.3	29.6	25.5	24.1	21.6	22.8	26.9	28.2	28.2
80°	142.5	64.5	32.2	26.9	22.8	21.6	20.2	18.8	24.1	25.5	25.5
82.5°	135.7	51.1	28.2	24.1	21.6	18.8	17.5	18.8	21.6	22.8	24.1
85°	84.6	33.7	25.5	22.8	18.8	17.5	17.5	17.5	20.2	21.6	21.6
87.5°	30.9	26.9	22.8	18.8	16.2	16.2	16.2	16.2	17.5	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)