

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: P192774

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18791.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 193
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



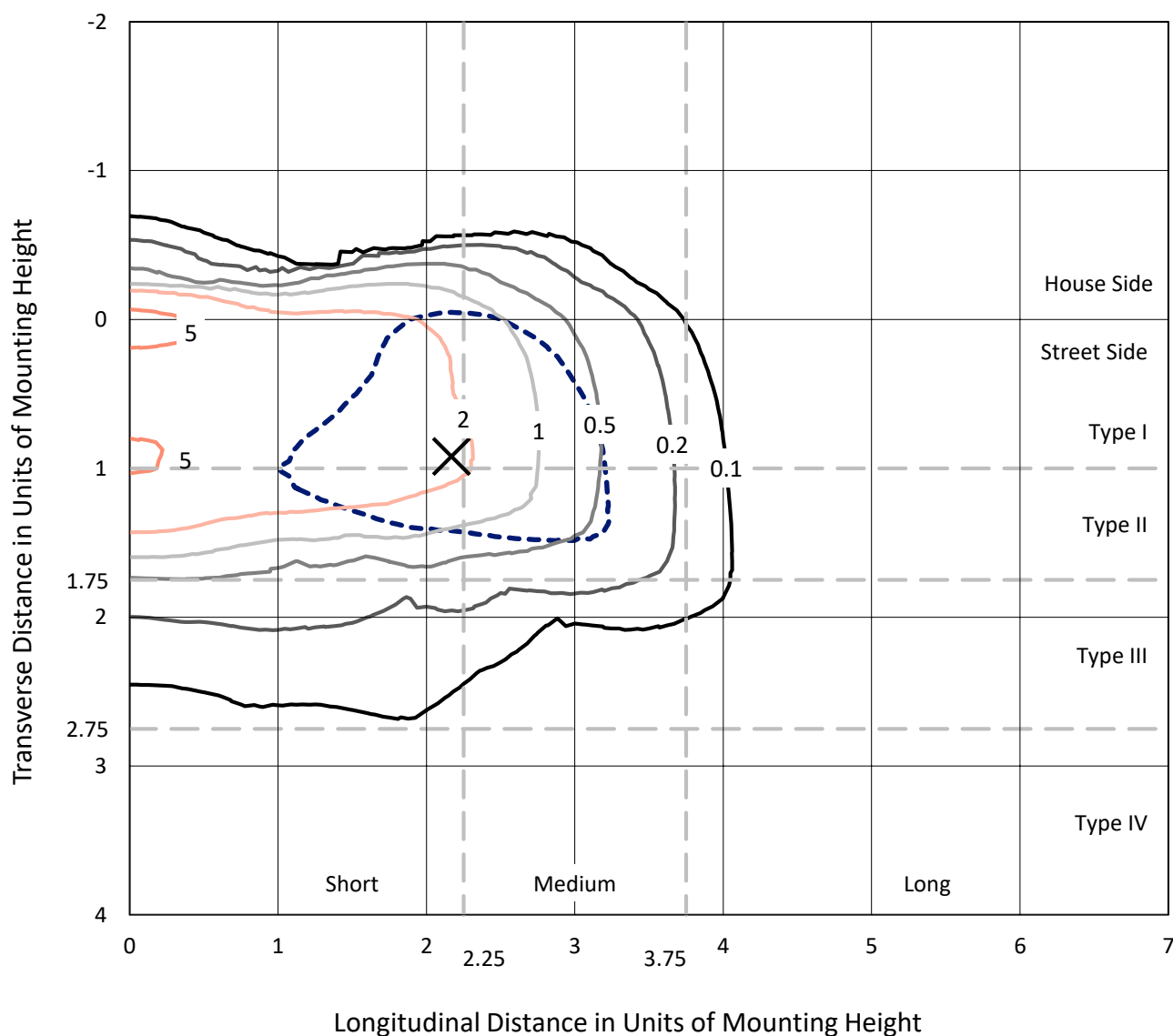
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

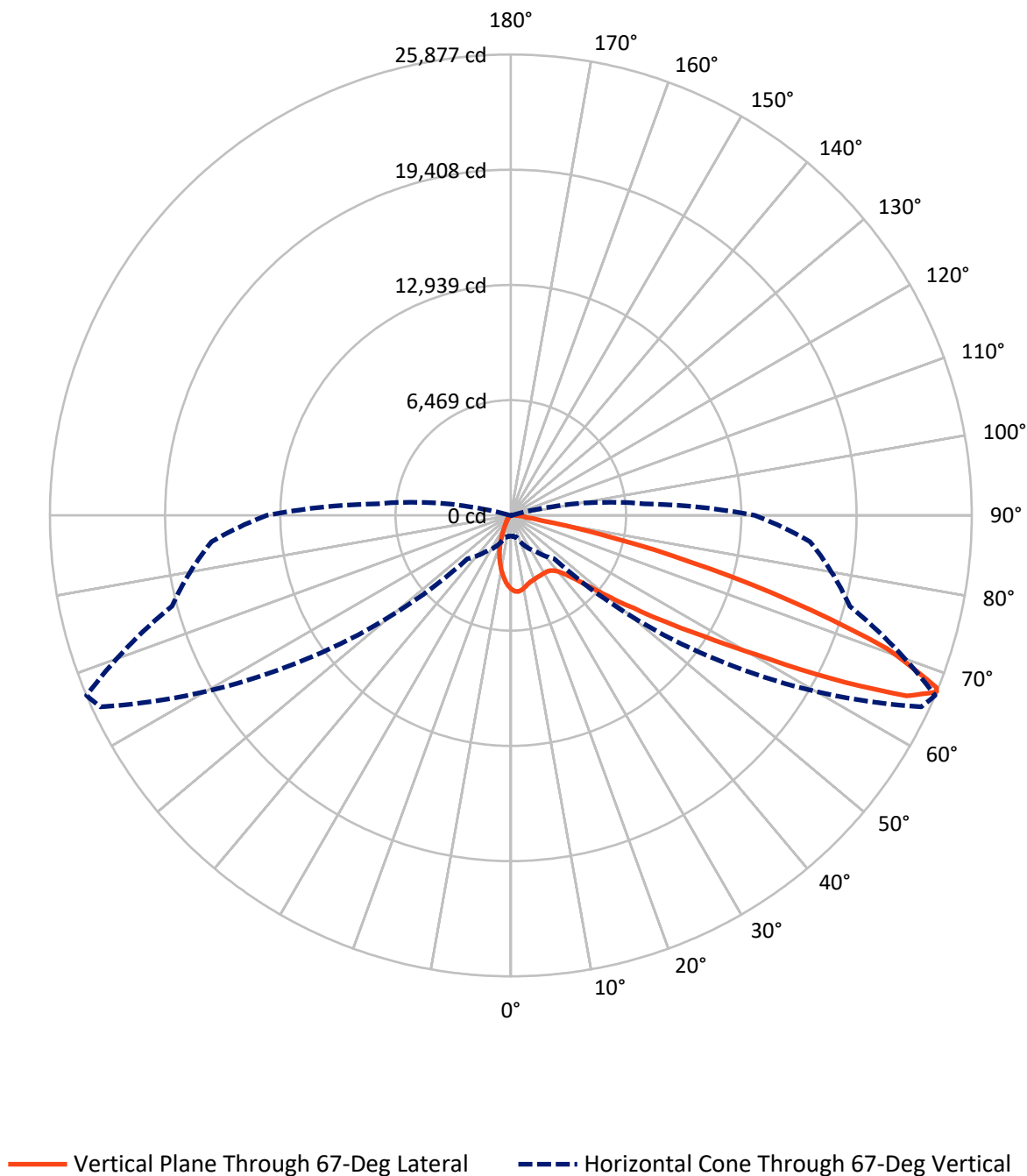


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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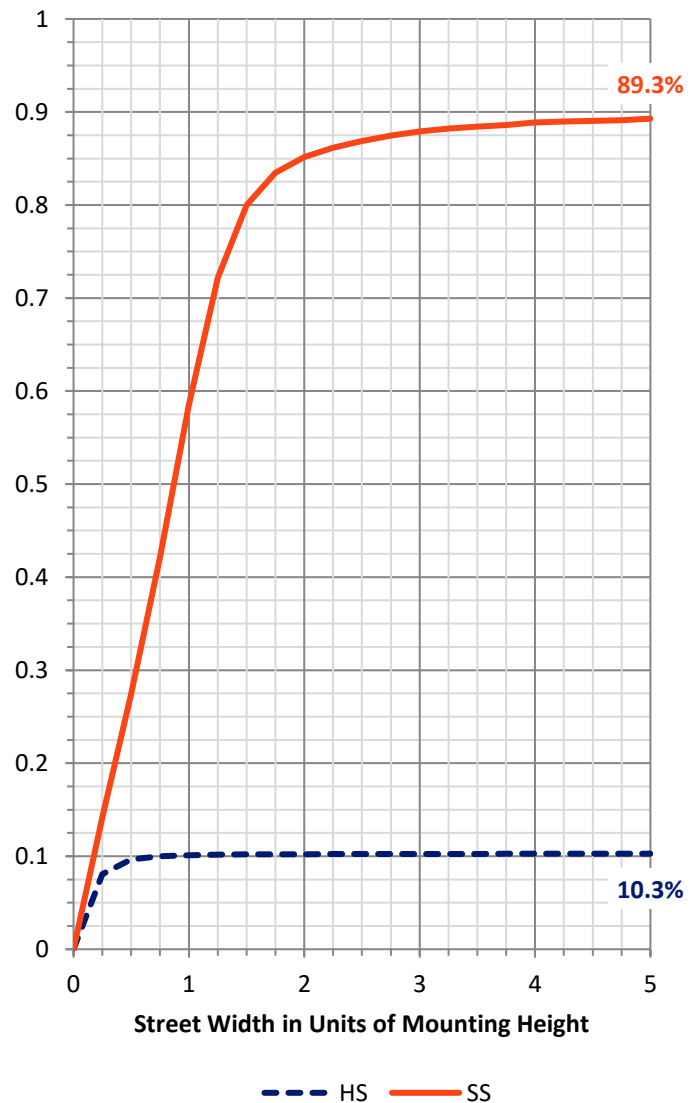
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1951.1	0.0	1951.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16840.4	0.0	16840.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	18791.5	0.0	18791.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.2	1.8
10°-20°	717.7	3.8
20°-30°	1043.5	5.6
30°-40°	1627.9	8.7
40°-50°	2883.7	15.3
50°-60°	4563.2	24.3
60°-70°	5226.5	27.8
70°-80°	2167.9	11.5
80°-90°	223.9	1.2
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°	18791.5	100.0
0°-180°	18791.5	100.0

Coefficient of Utilization



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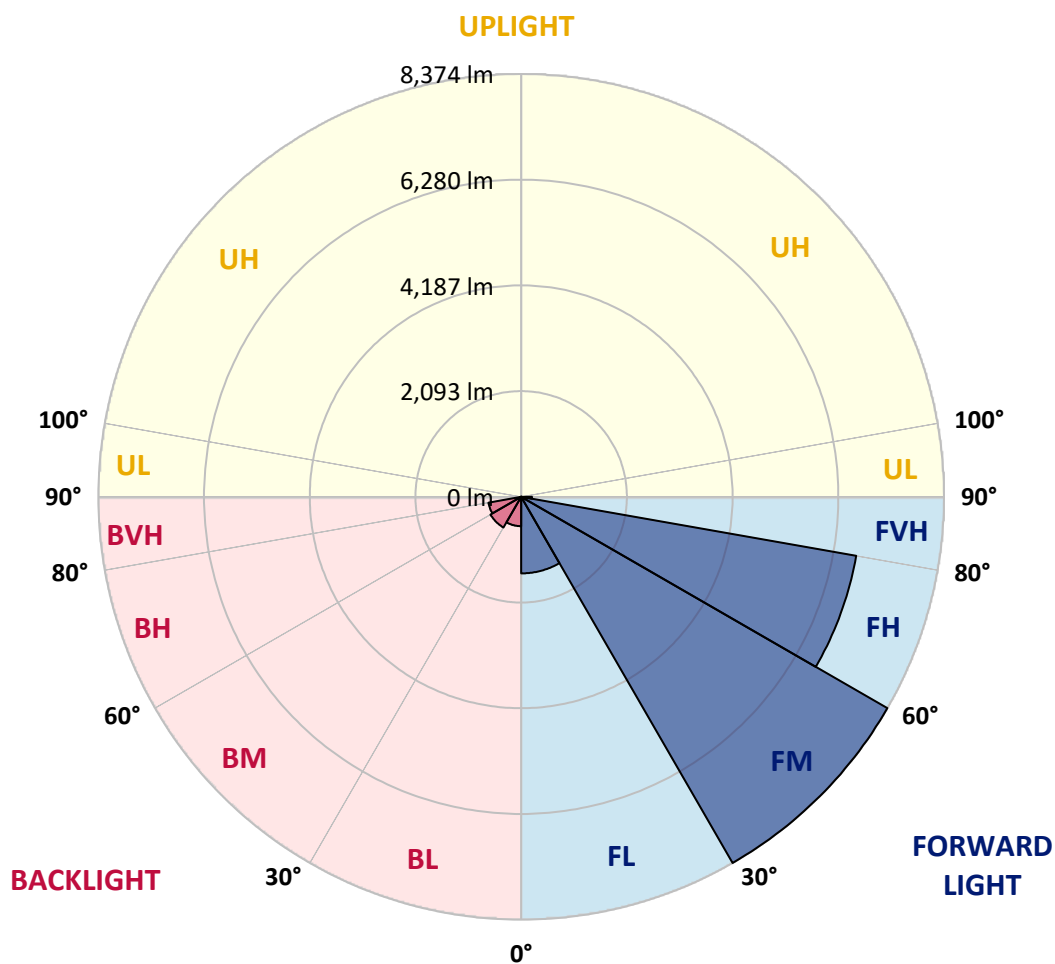
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1516.2	8.1			
FM	(30°-60°)	8373.5	44.6			
FH	(60°-80°)	6736.8	35.9			G3/7500
FVH	(80°-90°)	213.8	1.1			G2/225
BL	(0°-30°)	582.2	3.1	B2/1000		
BM	(30°-60°)	701.2	3.7	B1/1000		
BH	(60°-80°)	657.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4284.5	4293.3	4292.1	4298.8	4314.1	4315.2	4299.9	4270.3	4263.8	4225.3	4158.5
5°	3951.4	3976.5	3991.9	4054.4	4124.5	4208.8	4272.5	4295.5	4292.1	4264.8	4164.0
7.5°	3571.0	3596.2	3613.7	3687.2	3780.4	3925.0	4090.5	4226.4	4238.5	4268.1	4159.6
10°	3317.7	3322.1	3346.3	3416.4	3514.0	3662.0	3859.2	4097.1	4133.3	4241.8	4148.6
12.5°	3109.5	3112.8	3144.6	3220.2	3324.3	3473.5	3680.6	3955.7	4011.6	4208.8	4146.4
15°	2961.6	2973.6	3002.1	3081.0	3191.8	3339.7	3552.3	3851.6	3918.5	4196.8	4166.2
17.5°	2912.2	2925.4	2934.1	2991.2	3092.0	3236.7	3454.8	3783.6	3859.2	4203.4	4204.6
20°	2963.7	2973.6	2954.0	2968.1	3030.7	3160.0	3372.7	3725.5	3815.5	4211.1	4253.8
22.5°	3155.5	3160.0	3106.2	3043.8	3032.8	3104.0	3308.0	3679.6	3775.9	4231.9	4311.9
25°	3484.4	3476.7	3389.0	3254.2	3127.1	3094.2	3269.6	3651.0	3756.3	4253.8	4372.2
27.5°	3881.2	3892.2	3771.5	3575.4	3333.2	3160.0	3264.1	3638.9	3747.5	4269.2	4424.8
30°	4363.5	4378.8	4240.7	3994.1	3646.6	3322.1	3314.5	3636.7	3741.9	4259.3	4429.2
32.5°	4855.6	4874.2	4765.7	4511.5	4065.3	3594.0	3428.4	3660.8	3752.9	4225.3	4404.0
35°	5370.7	5397.0	5324.6	5106.6	4633.0	3986.5	3629.0	3734.3	3804.4	4222.0	4378.8
37.5°	6082.0	6106.2	5970.3	5739.0	5320.3	4512.5	3951.4	3872.3	3926.1	4274.7	4385.3
40°	7144.1	7140.8	6790.1	6436.1	6075.5	5181.1	4404.0	4122.4	4149.6	4433.6	4466.4
42.5°	8301.6	8296.2	7777.6	7239.5	6913.9	6004.3	4999.1	4554.2	4535.5	4726.2	4677.0
45°	9193.8	9192.7	8769.5	8163.6	7923.5	6949.0	5768.6	5154.8	5126.3	5202.0	5064.9
47.5°	9574.2	9580.7	9368.1	8941.7	9042.6	8227.1	6738.6	6025.1	5982.3	5951.7	5743.4
50°	9278.2	9291.3	9308.9	9225.6	9863.5	9944.6	8039.7	7251.5	7230.8	7093.7	6768.2
52.5°	8311.5	8378.3	8584.4	8848.6	10148.4	11593.1	10079.3	8775.0	8663.2	8517.6	8159.2
55°	6682.8	6756.1	7147.4	7788.6	9724.3	12675.9	12937.9	10739.2	10553.0	10117.7	9600.4
57.5°	4422.6	4536.7	5104.4	5919.8	8492.2	12850.3	15789.9	13465.1	12816.3	11624.8	11041.7
60°	2436.6	2546.2	3162.2	3900.9	6133.6	11988.8	17707.9	17014.2	15867.7	13309.5	12792.2
62.5°	1500.5	1559.6	2014.5	2701.8	3678.4	9462.3	18104.8	21474.2	20146.8	15478.6	14906.5
65°	1194.8	1219.9	1442.4	2208.5	2637.1	5628.3	16823.5	24874.1	24431.3	18104.8	16799.3
67°	1159.7	1169.5	1274.7	1896.2	2485.8	3450.4	14094.3	25427.6	25877.0	19694.1	16858.6
67.5°	1167.3	1178.3	1278.0	1809.6	2481.5	3170.9	13153.8	25209.5	25777.2	19820.1	16596.6
70°	1125.7	1159.7	1463.2	1808.5	2359.8	2634.9	7877.4	21842.3	22433.1	18416.0	14082.2
72.5°	399.1	401.2	632.4	1463.2	2565.9	2663.4	3955.7	16012.4	16449.7	14087.7	10152.8
75°	236.8	201.7	210.5	416.5	2451.9	2586.7	2282.0	10231.8	10395.0	8072.5	5141.6
77.5°	163.4	142.5	146.9	184.1	933.8	2550.5	1812.9	5335.6	5161.4	2831.1	1095.0
80°	93.2	82.2	87.7	161.1	339.8	2379.5	1709.9	2163.7	1844.7	480.0	302.5
82.5°	49.2	41.6	50.4	132.6	236.8	1482.9	1713.1	1045.6	828.6	162.2	206.1
85°	17.6	14.2	24.1	91.0	157.9	454.8	1588.2	879.0	690.5	78.8	156.8
87.5°	3.3	3.3	9.9	37.2	63.6	139.2	939.3	521.7	349.6	47.1	107.4
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°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4131.1	4083.9	4020.4	3942.5	3850.6	3769.3	3709.2	3646.6	3633.4	3611.6	3608.3
5°	4103.7	4022.6	3864.7	3683.9	3491.0	3316.7	3175.3	3049.2	2993.3	2945.1	2939.6
7.5°	4063.2	3941.4	3672.9	3381.3	3079.9	2805.9	2573.6	2409.1	2257.9	2185.5	2174.6
10°	4016.0	3841.7	3457.0	3052.4	2636.0	2249.1	1903.9	1614.6	1439.2	1335.0	1321.8
12.5°	3972.1	3744.2	3236.7	2711.7	2158.2	1640.8	1196.9	920.7	736.5	662.0	653.3
15°	3951.4	3665.2	3030.7	2363.2	1658.3	1044.5	654.4	506.4	446.1	428.6	427.4
17.5°	3949.0	3598.4	2828.9	2002.5	1161.9	607.3	426.3	389.1	377.1	372.7	372.7
20°	3948.0	3534.7	2627.2	1628.7	737.6	404.5	355.1	346.4	337.6	332.1	332.1
22.5°	3960.1	3477.8	2416.9	1247.3	464.7	327.8	312.4	303.6	292.6	284.9	283.8
25°	3972.1	3434.0	2202.0	887.8	336.5	284.9	269.7	257.6	242.2	232.4	231.3
27.5°	3974.3	3379.2	1971.8	594.1	281.7	248.8	229.1	210.5	193.0	183.0	181.9
30°	3941.4	3287.1	1716.5	401.2	248.8	215.9	189.6	169.9	153.4	145.8	145.8
32.5°	3876.7	3173.1	1435.8	302.5	221.4	185.2	156.8	138.1	127.2	123.9	122.8
35°	3818.7	3050.3	1147.5	256.4	198.5	156.8	128.3	116.2	109.6	108.5	107.4
37.5°	3784.7	2951.7	876.8	232.4	176.5	131.5	108.5	99.8	96.4	94.3	95.4
40°	3811.0	2869.4	647.8	212.6	154.5	109.6	92.1	87.7	84.3	83.2	83.2
42.5°	3926.1	2855.3	481.2	195.1	133.8	91.0	80.0	76.7	74.6	73.4	74.6
45°	4228.7	2942.9	373.7	178.6	112.9	76.7	68.0	66.8	65.8	65.8	65.8
47.5°	4683.5	3123.8	311.3	160.1	94.3	65.8	59.2	58.1	57.1	58.1	58.1
50°	5454.0	3454.8	278.4	141.4	77.8	55.9	50.4	50.4	50.4	50.4	51.5
52.5°	6625.7	4105.9	256.4	122.8	63.6	47.1	42.7	42.7	43.8	43.8	44.9
55°	7931.1	4969.5	236.8	104.2	53.7	39.5	35.1	36.2	37.2	38.4	38.4
57.5°	9347.2	5926.4	220.2	85.4	46.0	31.8	29.6	30.7	31.8	34.0	34.0
60°	11056.1	6962.2	196.2	66.8	38.4	25.2	23.1	25.2	28.5	30.7	31.8
62.5°	12932.5	7964.0	165.5	52.7	31.8	19.7	18.7	23.1	27.5	29.6	30.7
65°	14214.8	8278.6	127.2	42.7	24.1	14.2	15.3	20.9	26.3	29.6	29.6
67°	13695.3	7505.9	104.2	36.2	19.7	10.9	14.2	20.9	26.3	28.5	29.6
67.5°	13334.8	7203.4	99.8	35.1	18.7	10.9	14.2	20.9	26.3	29.6	29.6
70°	10850.0	5411.3	83.2	26.3	15.3	9.9	12.0	19.7	25.2	28.5	28.5
72.5°	7538.8	3336.4	74.6	18.7	13.1	8.7	10.9	18.7	24.1	27.5	28.5
75°	3584.1	1207.9	63.6	14.2	12.0	7.6	9.9	18.7	24.1	27.5	27.5
77.5°	731.1	280.6	51.5	12.0	9.9	7.6	8.7	17.6	23.1	26.3	26.3
80°	240.1	108.5	38.4	10.9	9.9	7.6	8.7	16.4	23.1	25.2	26.3
82.5°	173.1	54.8	25.2	10.9	9.9	7.6	7.6	16.4	22.0	25.2	25.2
85°	132.6	38.4	16.4	10.9	9.9	7.6	7.6	15.3	20.9	24.1	24.1
87.5°	87.7	15.3	13.1	10.9	9.9	7.6	7.6	15.3	19.7	23.1	24.1
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)