

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: P192855

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22920.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 226
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

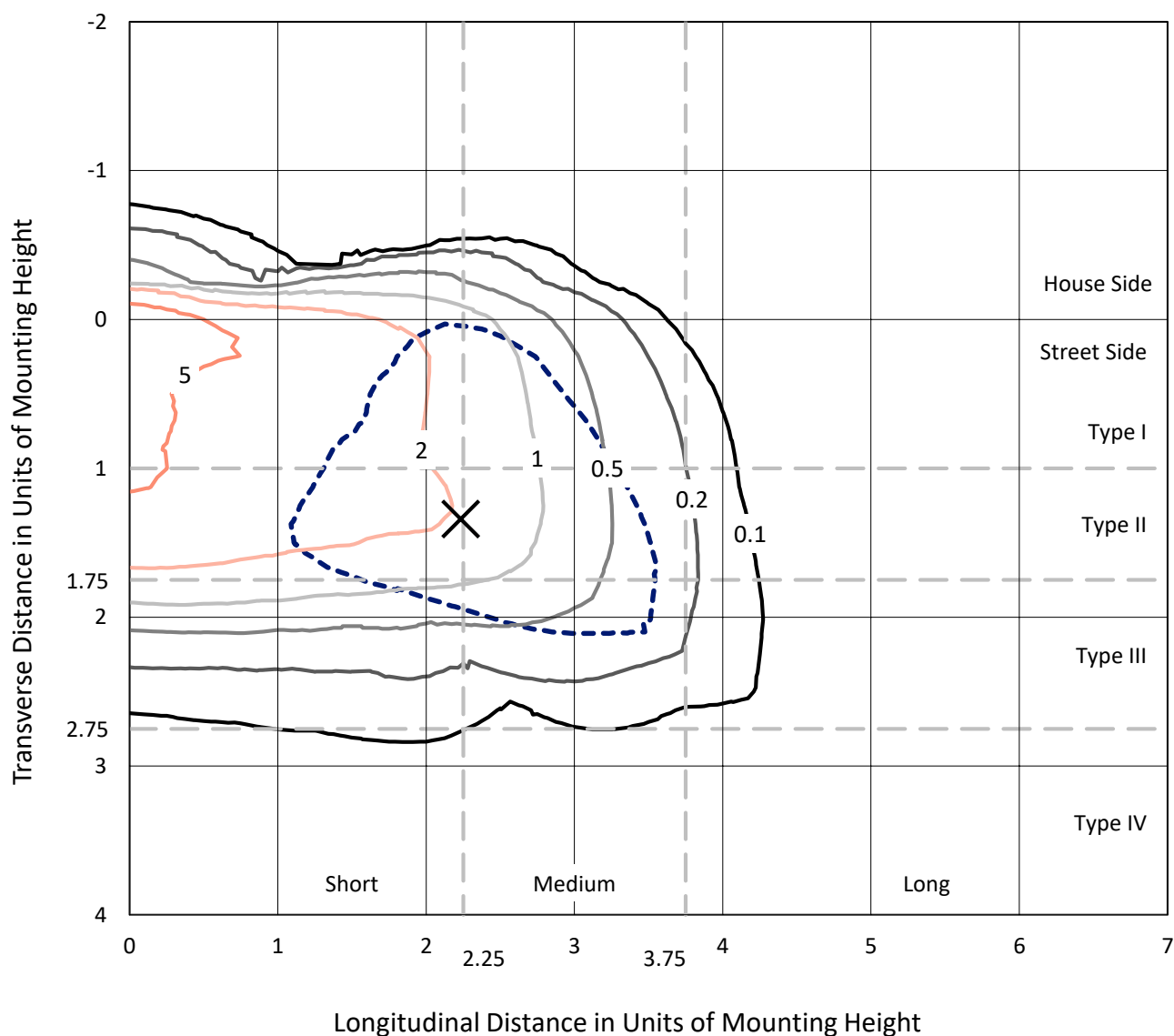


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

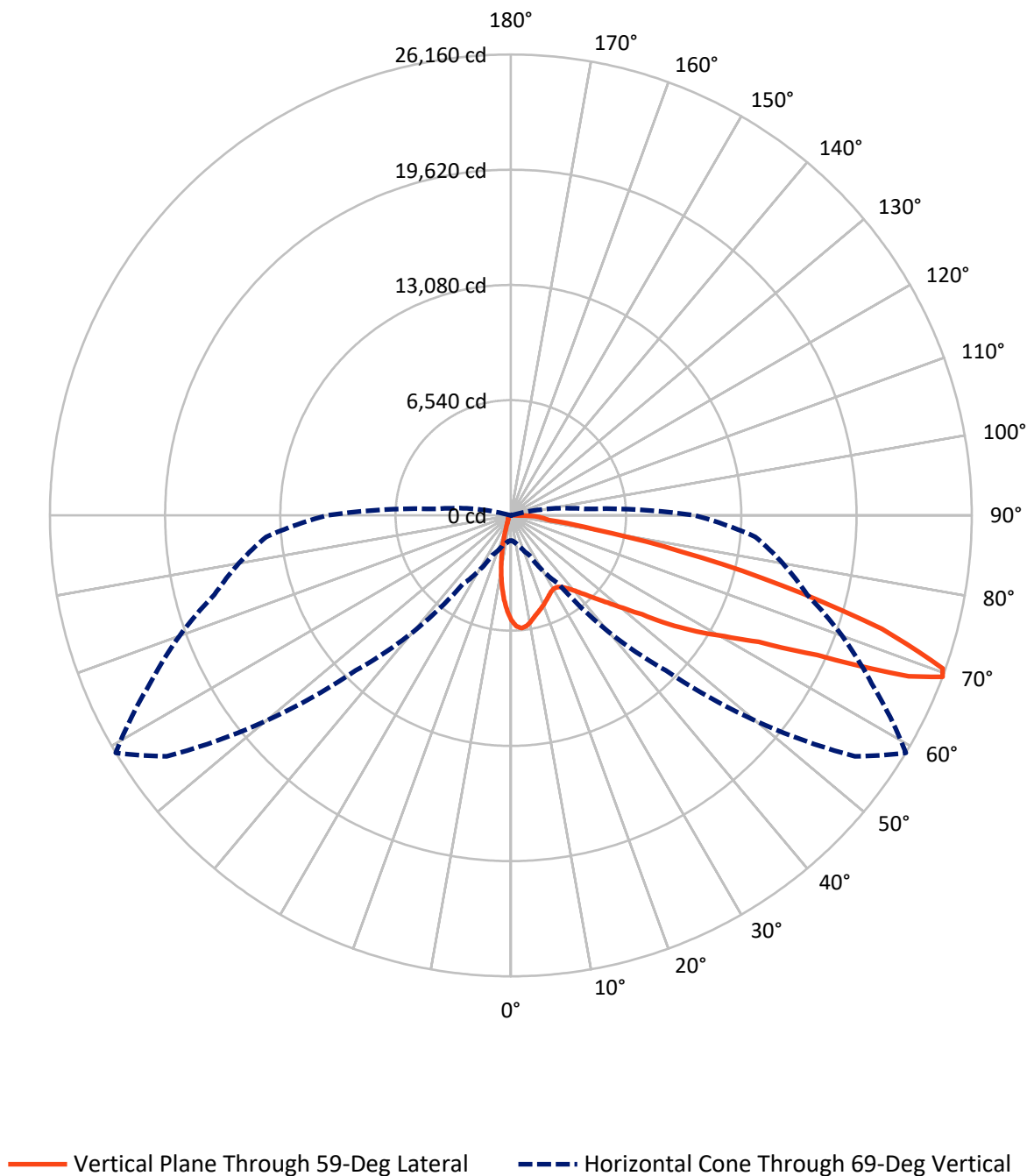


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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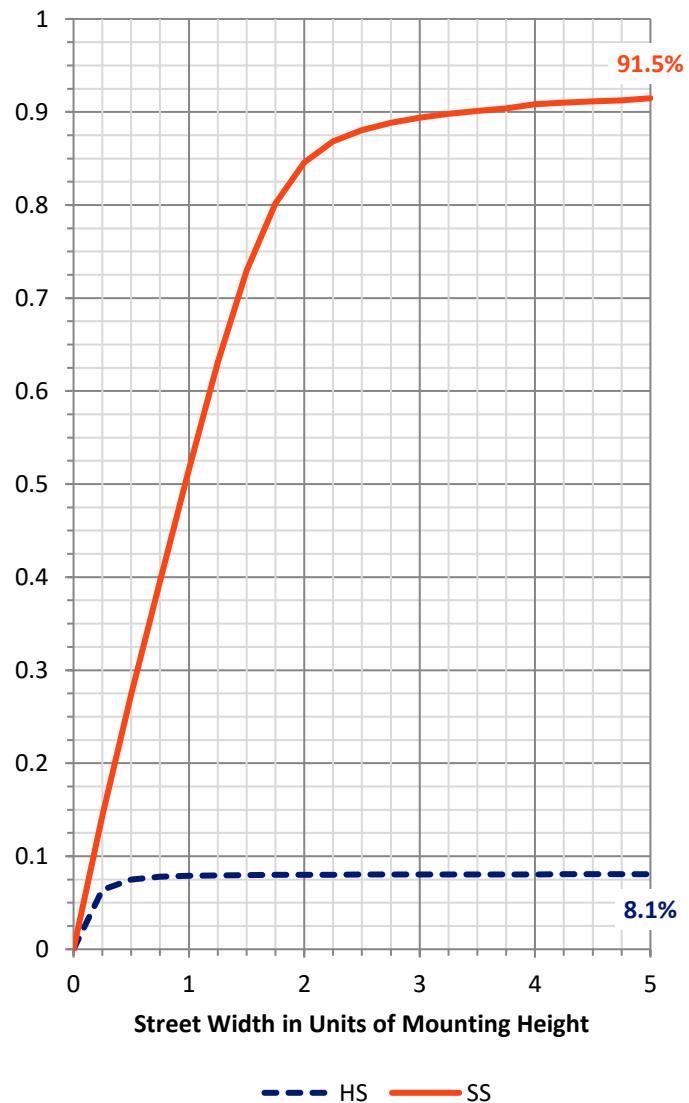
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1866.6	0.0	1866.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	21053.8	0.0	21053.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	22920.4	0.0	22920.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.3	2.1
10°-20°	1000.6	4.4
20°-30°	1346.4	5.9
30°-40°	1954.9	8.5
40°-50°	3255.1	14.2
50°-60°	5077.9	22.2
60°-70°	6283.5	27.4
70°-80°	3184.4	13.9
80°-90°	333.2	1.5
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°	22920.4	100.0
0°-180°	22920.4	100.0

Coefficient of Utilization



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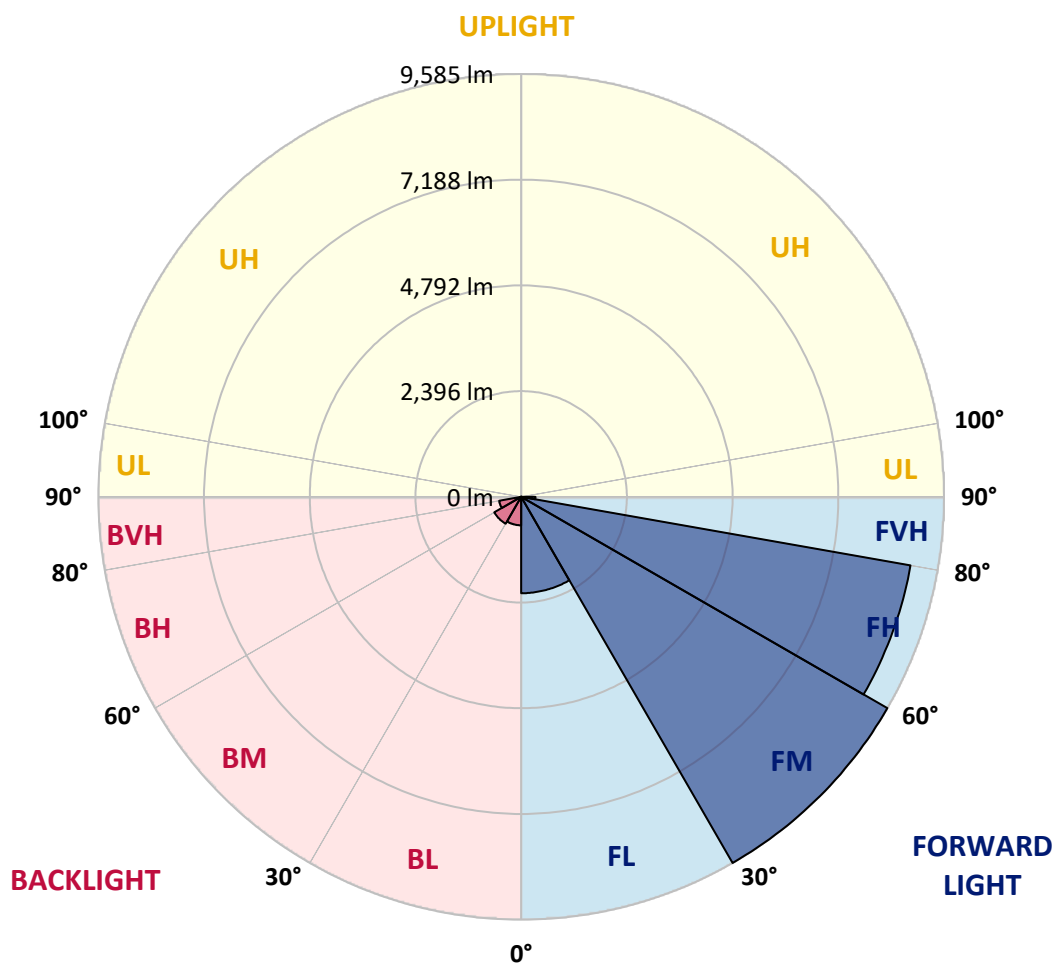
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2185.2	9.5			
FM	(30°-60°)	9584.6	41.8			
FH	(60°-80°)	8961.0	39.1			G4/12000
FVH	(80°-90°)	322.9	1.4			G3/500
BL	(0°-30°)	646.1	2.8	B2/1000		
BM	(30°-60°)	703.3	3.1	B1/1000		
BH	(60°-80°)	506.9	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9
2.5°	6538.7	6536.1	6507.6	6494.7	6471.3	6422.0	6345.7	6305.5	6240.7	6128.0	5976.3
5°	6479.1	6510.2	6527.0	6528.3	6545.1	6527.0	6458.5	6424.7	6335.3	6153.8	5881.7
7.5°	6074.7	6086.4	6134.4	6175.9	6256.1	6332.6	6357.2	6343.0	6289.8	6095.5	5733.8
10°	5641.8	5653.5	5710.6	5764.9	5873.9	5991.8	6116.3	6142.1	6164.2	6012.5	5591.4
12.5°	5268.6	5280.3	5338.5	5409.9	5536.8	5682.0	5875.1	5917.9	6015.2	5933.5	5477.2
15°	4947.2	4952.2	5009.3	5097.5	5249.2	5435.7	5654.8	5723.5	5872.5	5877.7	5377.4
17.5°	4673.7	4686.6	4721.6	4805.9	4971.8	5202.5	5457.8	5556.3	5731.3	5831.0	5280.3
20°	4506.5	4519.4	4518.1	4564.9	4713.9	4960.2	5260.9	5378.8	5591.4	5783.1	5193.4
22.5°	4474.0	4474.0	4440.4	4433.8	4522.0	4728.0	5056.0	5199.8	5465.5	5762.4	5132.5
25°	4589.4	4584.2	4500.0	4431.3	4435.2	4558.3	4857.6	5028.7	5359.2	5776.6	5100.1
27.5°	4833.1	4826.6	4720.3	4589.4	4484.4	4483.1	4707.3	4891.4	5275.0	5844.1	5113.0
30°	5170.0	5167.5	5052.1	4887.5	4697.0	4522.0	4655.5	4822.7	5220.6	5965.9	5142.9
32.5°	5538.2	5534.3	5447.4	5273.7	5032.7	4697.0	4709.9	4849.9	5236.1	6128.0	5215.4
35°	5928.3	5921.9	5884.1	5732.7	5466.9	5019.7	4888.8	4997.7	5334.7	6370.3	5358.0
37.5°	6350.8	6357.2	6384.4	6239.4	5960.6	5472.0	5188.1	5262.2	5533.0	6699.4	5590.0
40°	6974.2	6972.9	6982.0	6791.4	6523.3	6025.5	5606.8	5630.1	5864.8	7136.3	5942.5
42.5°	8105.7	8026.6	7786.9	7398.1	7128.4	6657.9	6134.4	6109.8	6270.5	7676.7	6436.4
45°	9626.0	9457.5	8835.4	8090.1	7745.4	7370.8	6783.7	6704.5	6807.1	8326.0	7045.5
47.5°	10933.8	10758.8	9878.7	8810.7	8400.0	8047.4	7544.5	7401.9	7435.6	9053.1	7817.9
50°	11378.3	11292.7	10524.2	9438.1	9033.7	8898.9	8427.1	8253.5	8205.5	9894.3	8713.5
52.5°	11224.1	11217.5	10705.7	9845.1	9614.4	9780.3	9537.9	9337.0	9160.8	10780.8	9624.7
55°	10976.5	11009.0	10779.5	10201.4	10193.7	10585.1	11056.9	10889.7	10379.0	11743.8	10410.1
57.5°	10293.6	10432.2	10738.0	10875.4	11194.2	11594.7	12321.8	12420.4	11816.4	12481.2	11062.1
60°	8352.0	8656.5	9657.1	10972.6	12483.9	13481.8	13848.6	13932.8	12995.9	13094.2	11942.1
62.5°	5928.3	6239.4	7508.2	9733.6	12503.3	15961.2	16123.3	15792.8	14294.5	14002.8	13459.7
65°	3146.8	3386.7	4423.6	7026.0	10840.3	16536.7	20101.0	19115.9	16586.0	15790.1	15420.8
67.5°	1609.7	1682.3	2094.5	3438.5	7452.5	14688.5	23666.4	24359.9	20535.2	17563.2	15326.2
69°	1424.4	1467.2	1740.6	2485.8	4772.2	12441.2	23840.2	26160.2	22602.4	17415.5	13927.8
70°	1379.1	1416.6	1665.4	2249.9	3730.1	10433.5	23175.2	26001.9	23131.2	16852.9	12883.1
72.5°	1170.3	1202.7	1482.7	1988.2	3031.5	5179.1	18825.6	22033.4	20756.7	14039.2	9325.3
75°	782.9	889.2	1423.1	1863.8	2820.3	2942.2	12411.3	15922.4	14790.9	9469.2	4857.6
77.5°	187.9	202.2	401.7	1482.7	2579.2	2589.6	6383.3	9898.2	8073.2	3375.0	1148.4
80°	101.1	97.2	112.7	294.2	2401.6	2430.2	2873.4	4804.5	2882.5	560.0	378.5
82.5°	71.2	67.4	72.5	123.1	755.6	2213.7	2078.8	2174.8	1195.0	215.1	169.8
85°	25.9	24.6	40.2	111.5	237.2	1272.8	2135.9	1793.8	968.1	98.6	124.4
87.5°	9.1	7.7	15.6	60.9	72.5	541.8	1318.1	1355.7	381.1	59.6	58.4
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°	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9
2.5°	5912.7	5832.4	5684.6	5533.0	5393.0	5224.6	5140.2	5057.3	5022.3	5009.3	4948.5
5°	5741.7	5605.5	5291.9	4977.0	4686.6	4378.1	4174.7	4011.4	3915.5	3868.8	3794.9
7.5°	5522.6	5299.7	4824.1	4338.0	3885.7	3439.8	3109.3	2855.3	2680.3	2596.0	2519.6
10°	5310.0	5013.3	4336.7	3674.4	3060.1	2469.0	2012.8	1682.3	1471.0	1373.8	1311.6
12.5°	5119.6	4734.6	3866.2	3027.7	2256.5	1564.4	1100.4	837.3	706.4	661.0	638.9
15°	4949.8	4478.0	3421.7	2413.3	1528.1	894.3	601.4	512.0	491.2	491.2	488.6
17.5°	4789.1	4226.4	2992.6	1836.5	959.1	547.0	457.5	445.9	445.9	451.0	451.0
20°	4634.8	3986.8	2577.9	1318.1	603.9	434.2	413.4	410.9	413.4	419.9	419.9
22.5°	4502.6	3769.0	2190.4	904.6	448.4	391.3	381.1	377.2	378.5	382.3	384.9
25°	4404.1	3585.1	1824.8	613.1	386.2	356.4	344.7	338.2	333.1	333.1	335.7
27.5°	4341.9	3429.4	1471.0	445.9	347.3	324.1	305.9	295.5	283.8	277.4	279.9
30°	4296.5	3281.7	1139.2	364.2	311.1	287.7	264.4	247.6	230.7	222.9	225.5
32.5°	4279.6	3162.4	851.5	321.4	278.6	252.7	224.2	202.2	184.0	177.5	178.8
35°	4325.0	3067.8	623.5	290.3	252.7	220.3	187.9	163.4	149.0	145.2	146.4
37.5°	4444.2	3017.3	466.5	264.4	229.5	193.2	156.8	133.6	124.4	124.4	125.7
40°	4669.7	3016.0	374.5	246.3	208.6	167.1	129.6	112.7	107.6	110.2	111.5
42.5°	4998.9	3084.7	326.5	229.5	190.5	142.6	107.6	95.9	94.6	97.2	98.6
45°	5448.8	3210.4	300.7	215.1	171.1	119.2	90.6	82.9	82.9	86.9	88.2
47.5°	5999.5	3394.4	278.6	200.9	151.7	99.8	77.8	72.5	73.9	77.8	79.1
50°	6663.1	3626.5	256.6	185.3	137.3	82.9	67.4	63.5	64.8	70.0	71.2
52.5°	7418.8	3938.8	238.5	171.1	119.2	68.8	57.1	54.4	57.1	62.2	63.5
55°	8066.8	4218.7	216.5	159.4	95.9	57.1	46.7	46.7	49.2	55.7	57.1
57.5°	8690.3	4511.7	197.0	137.3	75.2	45.4	38.9	40.2	44.0	50.6	51.8
60°	9605.3	5008.0	173.7	115.4	57.1	36.3	32.4	33.7	38.9	45.4	46.7
62.5°	11159.3	5763.7	150.3	95.9	44.0	28.5	25.9	28.5	35.0	42.7	44.0
65°	12561.6	6070.9	123.1	80.3	33.7	22.1	22.1	25.9	33.7	41.5	42.7
67.5°	11780.2	5110.5	95.9	63.5	25.9	16.8	18.1	24.6	32.4	41.5	42.7
69°	10417.9	4178.6	81.6	50.6	22.1	15.6	16.8	24.6	32.4	40.2	41.5
70°	9356.4	3528.0	72.5	42.7	19.4	15.6	16.8	23.4	32.4	40.2	41.5
72.5°	6266.6	1905.3	58.4	31.1	18.1	14.2	14.2	23.4	31.1	38.9	40.2
75°	2693.2	526.2	46.7	22.1	15.6	13.0	13.0	22.1	29.8	37.5	40.2
77.5°	492.5	133.6	37.5	19.4	15.6	13.0	11.7	20.8	28.5	36.3	37.5
80°	195.7	66.1	29.8	16.8	14.2	11.7	10.4	19.4	27.2	35.0	36.3
82.5°	117.9	37.5	24.6	15.6	14.2	10.4	9.1	16.8	25.9	33.7	35.0
85°	95.9	25.9	19.4	15.6	13.0	10.4	7.7	15.6	23.4	32.4	33.7
87.5°	46.7	18.1	18.1	14.2	13.0	10.4	7.7	14.2	22.1	31.1	32.4
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)