

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: P192995

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38692 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

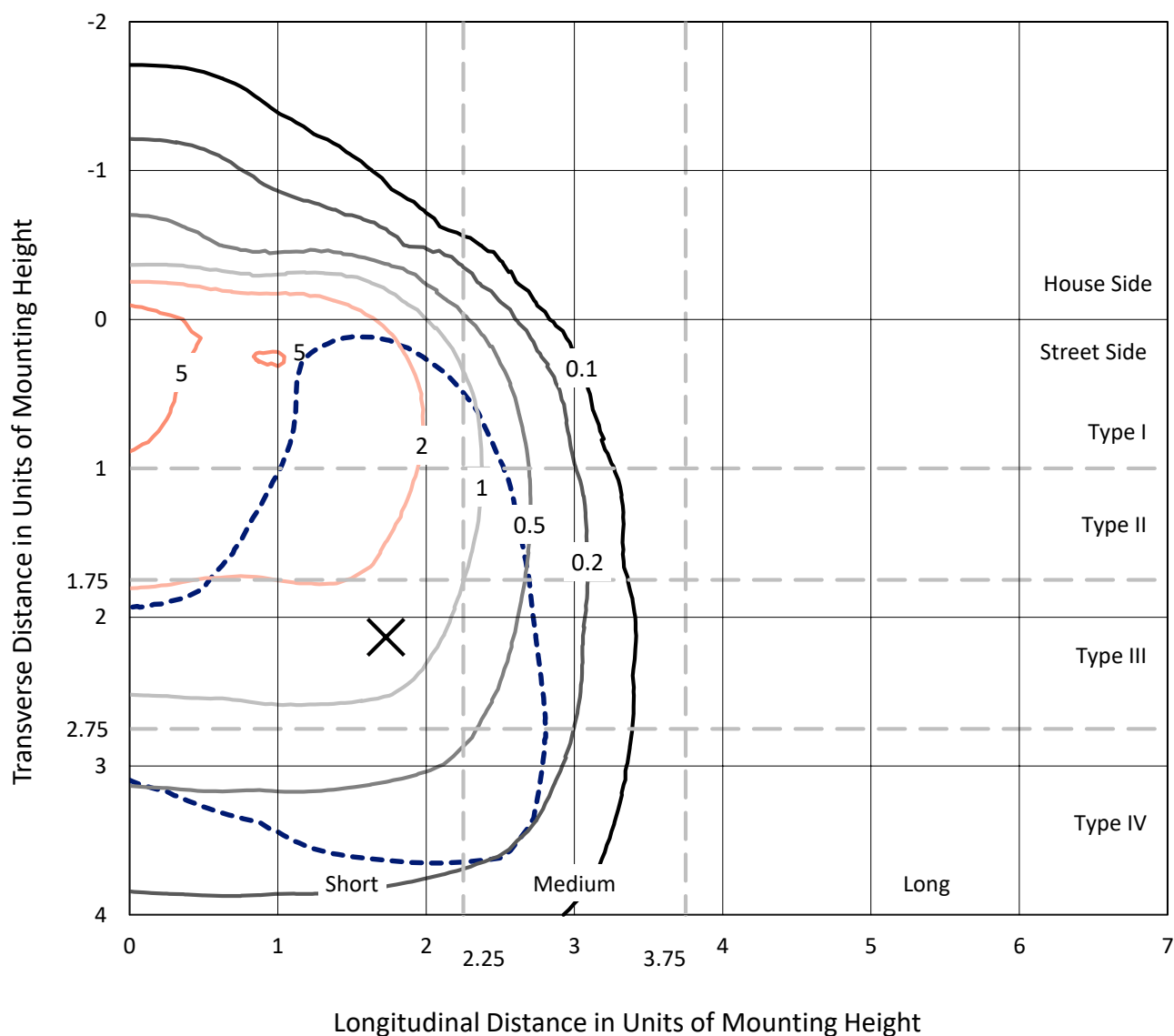


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

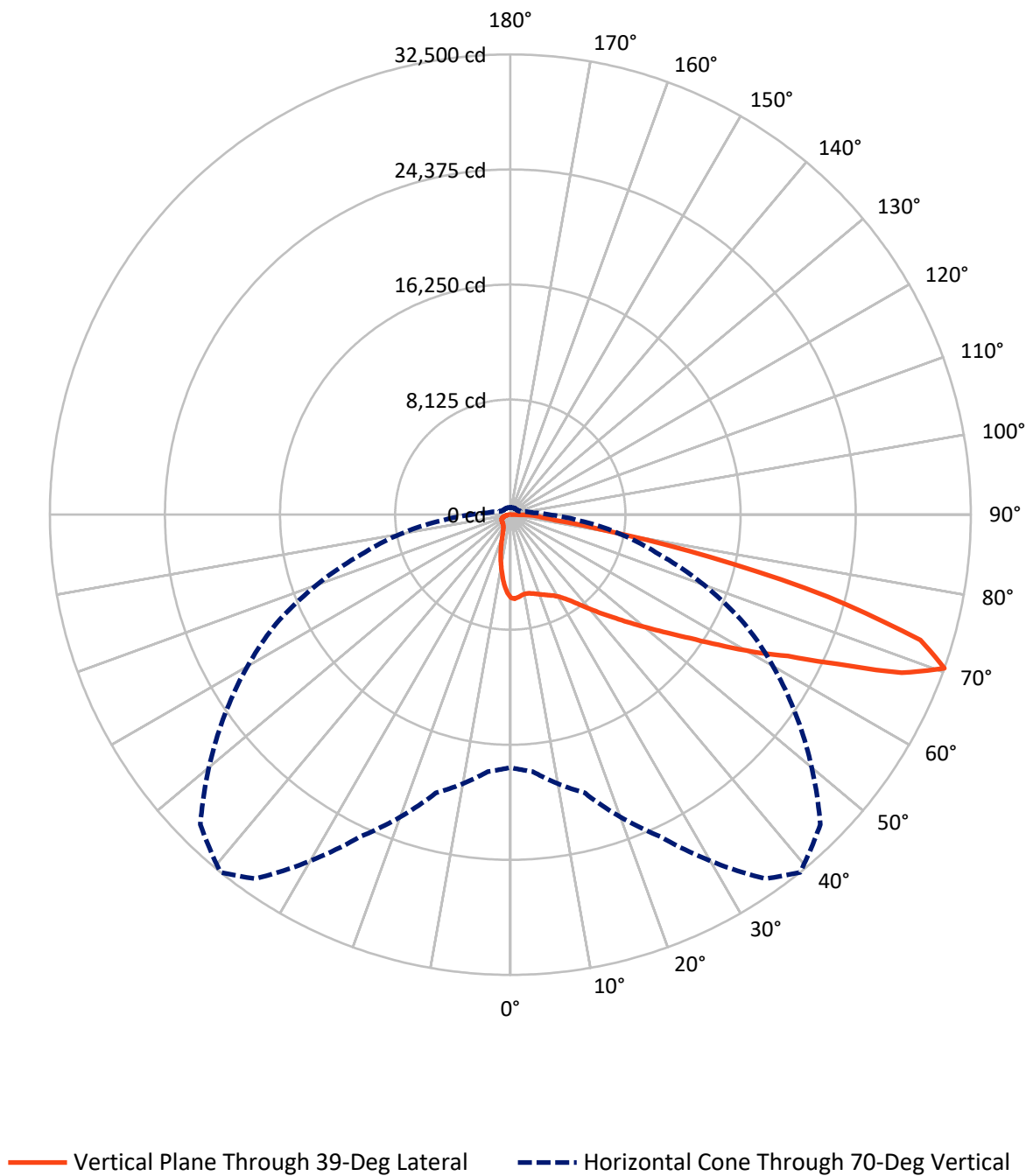


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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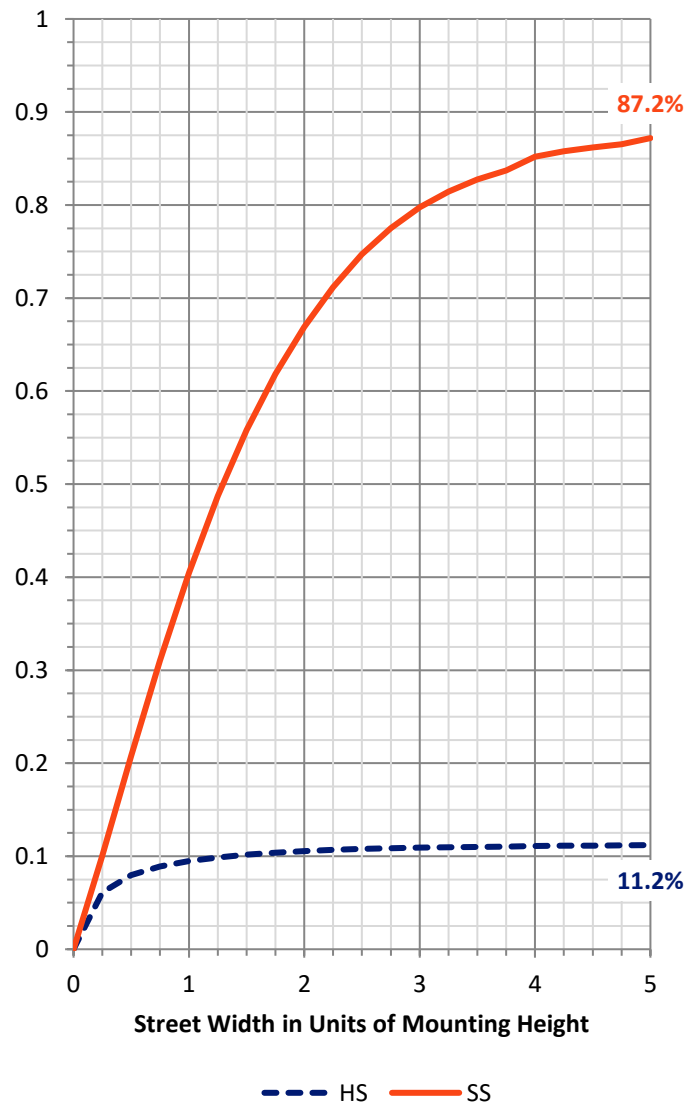
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4400.6	0.0	4400.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	34291.4	0.0	34291.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	38692.0	0.0	38692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.1	1.3
10°-20°	1260.1	3.3
20°-30°	1962.0	5.1
30°-40°	3056.4	7.9
40°-50°	5131.1	13.3
50°-60°	8151.3	21.1
60°-70°	10872.9	28.1
70°-80°	6565.9	17.0
80°-90°	1188.3	3.1
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°	38692.0	100.0
0°-180°	38692.0	100.0

Coefficient of Utilization



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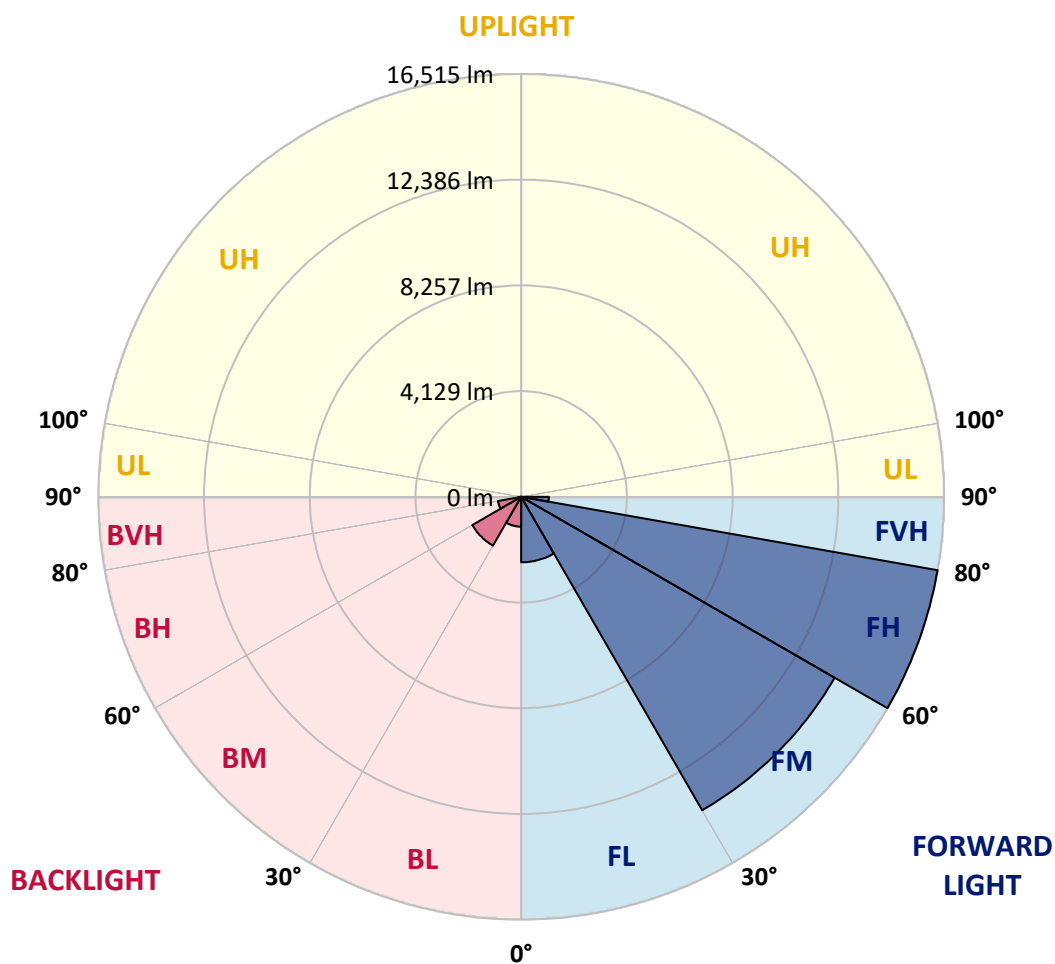
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2558.7	6.6			
FM	(30°-60°)	14136.6	36.5			
FH	(60°-80°)	16514.9	42.7			G5
FVH	(80°-90°)	1081.2	2.8			G5
BL	(0°-30°)	1167.4	3.0	B3/2500		
BM	(30°-60°)	2202.2	5.7	B2/2500		
BH	(60°-80°)	923.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	107.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0
2.5°	5988.2	5986.2	5970.5	5958.7	5948.8	5944.9	5952.8	5923.3	5897.6	5866.1	5832.7
5°	5942.9	5941.0	5915.4	5891.7	5868.1	5860.2	5858.3	5805.2	5773.7	5726.5	5663.6
7.5°	5893.7	5883.8	5850.4	5811.1	5769.8	5750.1	5730.4	5661.6	5626.2	5579.0	5506.2
10°	5842.5	5830.7	5799.3	5759.9	5720.6	5691.1	5657.7	5590.8	5553.4	5518.0	5433.4
12.5°	5789.4	5779.6	5771.7	5754.0	5726.5	5700.9	5675.4	5618.3	5579.0	5537.7	5439.3
15°	5781.6	5777.6	5795.3	5807.1	5791.4	5775.7	5748.1	5699.0	5657.7	5616.4	5488.4
17.5°	5844.5	5842.5	5887.8	5919.3	5911.5	5883.8	5846.5	5791.4	5758.0	5722.6	5563.3
20°	5982.3	5992.1	6047.2	6088.5	6049.1	6009.8	5948.8	5872.0	5854.3	5838.6	5640.0
22.5°	6241.9	6251.7	6291.0	6306.8	6204.5	6147.5	6062.9	5964.6	5952.8	5964.6	5732.4
25°	6647.2	6637.3	6631.4	6572.4	6385.5	6296.9	6188.8	6086.5	6092.4	6145.5	5862.2
27.5°	7184.3	7131.2	7048.5	6871.5	6574.3	6476.1	6344.2	6249.7	6287.1	6389.5	6057.0
30°	7740.9	7681.9	7491.1	7202.0	6822.2	6714.0	6566.5	6460.3	6558.7	6719.9	6316.8
32.5°	8256.2	8248.4	7969.2	7597.4	7164.5	7070.0	6922.5	6802.6	6961.9	7207.9	6706.2
35°	8819.0	8836.7	8502.2	8055.6	7626.9	7528.4	7422.2	7331.8	7544.3	7882.5	7270.7
37.5°	9420.9	9456.3	9060.9	8557.3	8154.0	8112.7	8049.7	8010.5	8338.8	8807.2	8059.6
40°	10225.5	10190.1	9641.2	9123.8	8801.3	8799.3	8779.6	8826.8	9373.7	10015.0	9072.7
42.5°	11087.1	10982.8	10256.9	9731.7	9511.3	9578.3	9617.6	9810.4	10618.9	11482.5	10308.1
45°	12015.7	11781.5	10896.3	10374.9	10300.2	10441.9	10575.6	10994.6	12084.5	13152.6	11661.6
47.5°	12757.2	12531.1	11557.2	11049.7	11213.1	11427.4	11685.2	12348.1	13725.1	14878.0	12997.3
50°	13341.5	13193.9	12224.2	11836.6	12218.3	12548.8	12969.7	13880.6	15432.7	16557.9	14234.7
52.5°	13908.0	13798.0	12897.0	12643.2	13398.6	13854.9	14427.3	15525.0	17183.4	18210.4	15275.3
55°	14419.5	14340.9	13620.8	13648.4	14787.3	15381.5	16101.5	17397.9	19091.6	19683.7	16156.6
57.5°	14996.0	14895.7	14447.1	14909.4	16571.7	17342.8	18279.2	19502.8	20881.7	20993.9	16827.3
60°	15576.2	15489.6	15363.8	16365.1	18837.8	19648.3	20535.5	21542.7	22697.5	22011.0	16788.0
62.5°	16079.8	16089.7	16312.0	17893.6	21056.9	21995.2	23077.2	24072.5	24340.1	22188.0	15546.7
65°	16933.6	17089.0	17752.0	20057.5	24180.7	25435.8	26763.7	26604.3	24794.5	20533.5	12885.2
67.5°	17948.7	18222.1	19565.7	22941.3	28128.9	29795.1	30308.5	27176.8	22974.8	16691.6	9184.9
70°	17846.4	18222.1	20348.7	25091.6	31382.6	32500.0	30942.0	24595.8	18243.8	10904.2	4878.7
72.5°	15847.7	16384.7	18753.3	24106.0	30357.8	30259.4	26862.1	18336.2	10839.3	4379.0	1906.2
75°	12078.6	12621.5	14659.6	19044.4	23993.9	23167.7	19060.2	10129.1	4113.4	1739.0	1202.0
77.5°	6948.2	7369.1	8942.9	11679.3	15222.1	14374.2	10609.1	4504.9	2002.6	1211.8	938.3
80°	3879.4	4113.4	5069.4	5925.2	7459.5	6838.0	4746.9	2799.3	1495.1	879.3	724.0
82.5°	3066.9	3275.4	4099.6	3737.6	3407.1	3143.6	2726.6	2492.4	1194.1	554.7	432.7
85°	2679.4	2878.0	3470.2	2942.9	2327.2	2134.4	2215.0	2453.1	928.4	334.5	369.9
87.5°	2482.6	2748.2	3092.5	2268.2	1811.7	1605.2	2043.9	2689.2	299.1	208.5	149.4
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°	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0	5874.0
2.5°	5803.2	5771.7	5720.6	5675.4	5604.6	5567.2	5525.9	5496.3	5472.7	5453.0	5484.5
5°	5624.2	5565.2	5457.0	5340.9	5203.3	5095.1	5004.5	4920.0	4861.0	4821.6	4849.2
7.5°	5455.0	5358.6	5189.5	4979.0	4743.0	4542.2	4377.0	4231.4	4131.1	4066.2	4091.8
10°	5358.6	5238.7	4977.0	4646.5	4298.4	3985.6	3725.8	3501.6	3346.2	3257.7	3271.4
12.5°	5335.0	5179.7	4817.7	4363.3	3887.2	3452.4	3086.6	2775.7	2557.3	2443.2	2447.2
15°	5352.7	5154.1	4668.1	4091.8	3489.8	2940.9	2484.5	2106.8	1853.1	1723.2	1721.3
17.5°	5382.2	5134.4	4510.8	3798.6	3086.6	2449.1	1939.7	1569.8	1345.5	1241.3	1233.4
20°	5413.7	5103.0	4333.8	3482.0	2667.6	1992.8	1518.7	1229.5	1087.9	1030.9	1026.9
22.5°	5458.9	5075.3	4150.8	3147.5	2256.4	1622.9	1249.2	1054.5	979.6	950.1	946.1
25°	5531.8	5061.6	3956.1	2799.3	1886.6	1357.3	1087.9	967.8	924.6	904.8	902.9
27.5°	5653.7	5081.2	3773.0	2460.9	1585.6	1178.4	997.3	924.6	893.0	875.3	873.4
30°	5811.1	5142.3	3580.3	2140.3	1351.4	1056.4	942.3	895.1	869.4	851.7	851.7
32.5°	6072.7	5244.6	3377.6	1863.0	1184.3	971.8	901.0	869.4	847.9	834.0	832.1
35°	6458.4	5437.3	3188.8	1632.8	1064.3	910.7	865.6	842.0	826.2	818.4	818.4
37.5°	7019.0	5742.2	3021.6	1467.6	991.4	869.4	832.1	814.4	804.5	804.5	804.5
40°	7772.3	6163.2	2885.9	1357.3	950.1	839.9	806.6	792.7	786.8	788.9	788.9
42.5°	8702.8	6710.0	2795.4	1280.6	930.5	822.2	788.9	777.1	771.2	769.1	771.2
45°	9763.2	7331.8	2785.6	1223.6	910.7	810.4	777.1	765.3	753.5	745.5	745.5
47.5°	10794.0	7963.3	2866.2	1203.9	889.2	796.7	767.2	755.4	737.7	720.0	720.0
50°	11704.8	8500.3	2974.4	1211.8	881.2	777.1	751.4	745.5	718.1	698.3	696.4
52.5°	12428.8	8913.4	3063.0	1235.4	889.2	763.2	731.8	733.7	704.2	682.7	680.6
55°	13009.1	9184.9	3039.3	1259.0	906.9	755.4	714.1	718.1	694.5	672.8	672.8
57.5°	13262.9	9084.5	2777.7	1239.3	920.6	757.3	700.4	716.0	696.4	676.8	676.8
60°	12717.9	8193.4	2287.9	1152.8	902.9	751.4	694.5	724.0	721.9	702.3	700.4
62.5°	11069.4	6597.9	1774.4	1025.0	842.0	721.9	678.7	721.9	743.6	737.7	735.8
65°	8531.7	4699.7	1355.4	887.1	759.4	672.8	637.4	676.8	706.3	714.1	712.2
67.5°	5537.7	2880.0	1044.6	757.3	666.9	615.7	584.2	601.9	607.8	607.8	603.8
70°	2722.6	1550.2	832.1	637.4	572.4	554.7	537.0	527.1	517.4	509.4	509.4
72.5°	1343.6	1013.1	684.6	538.9	493.8	485.8	482.0	470.2	462.2	452.5	448.5
75°	993.3	824.3	582.3	454.4	424.9	417.1	424.9	415.0	413.1	405.3	401.3
77.5°	816.3	702.3	501.6	389.5	364.0	350.1	361.9	364.0	365.9	354.1	350.1
80°	662.9	594.1	419.0	322.7	299.1	289.2	297.0	312.8	316.8	299.1	291.1
82.5°	478.0	485.8	338.3	251.9	232.1	224.3	240.1	259.7	263.7	238.0	232.1
85°	401.3	405.3	259.7	178.9	159.3	147.5	173.0	192.8	206.6	181.0	175.1
87.5°	167.1	238.0	149.4	100.3	88.5	76.7	92.5	102.2	123.9	114.0	112.1
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)