

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: P193008

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193008
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-10-LED-E1-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA 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: 59397.7 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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



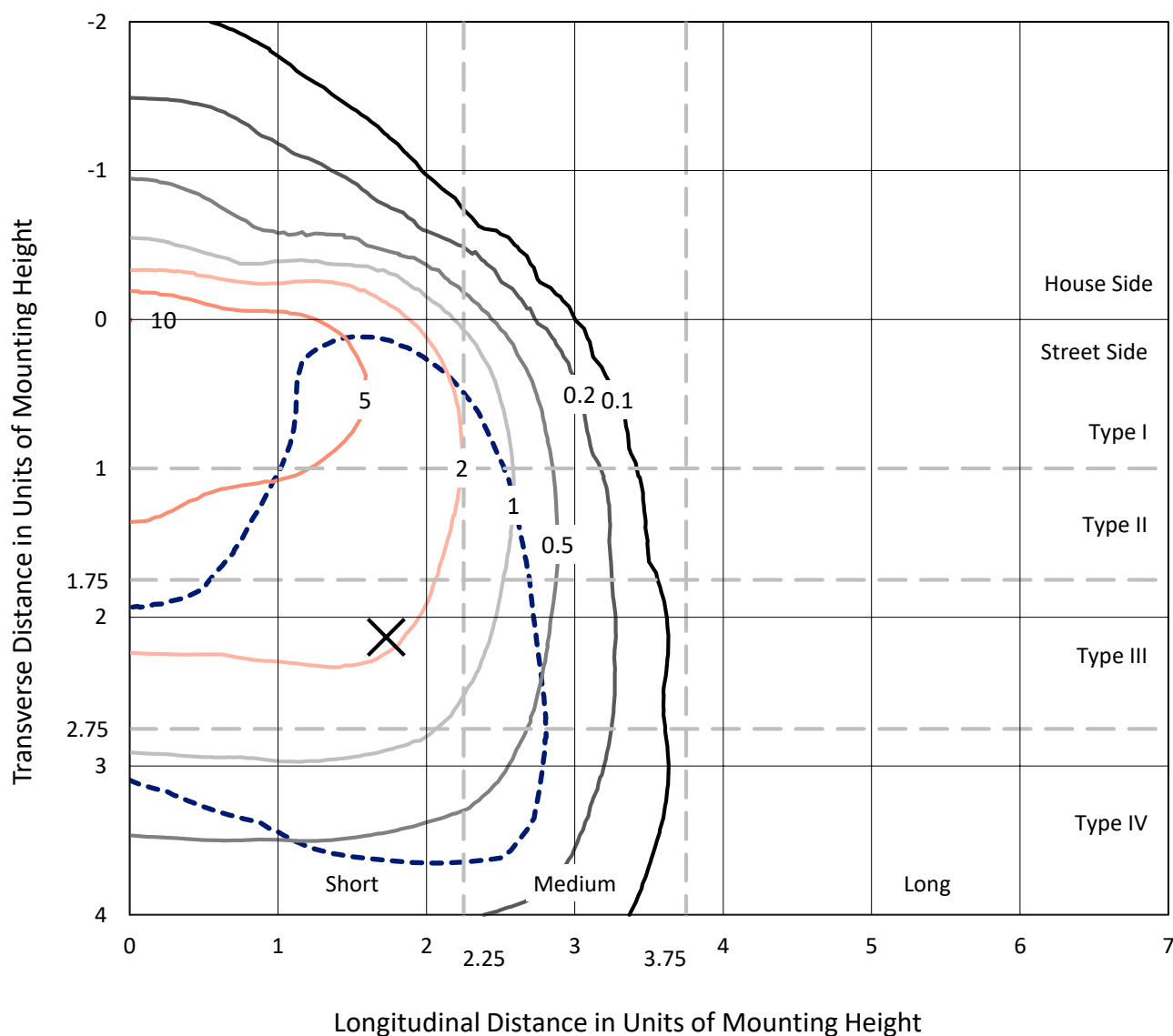
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

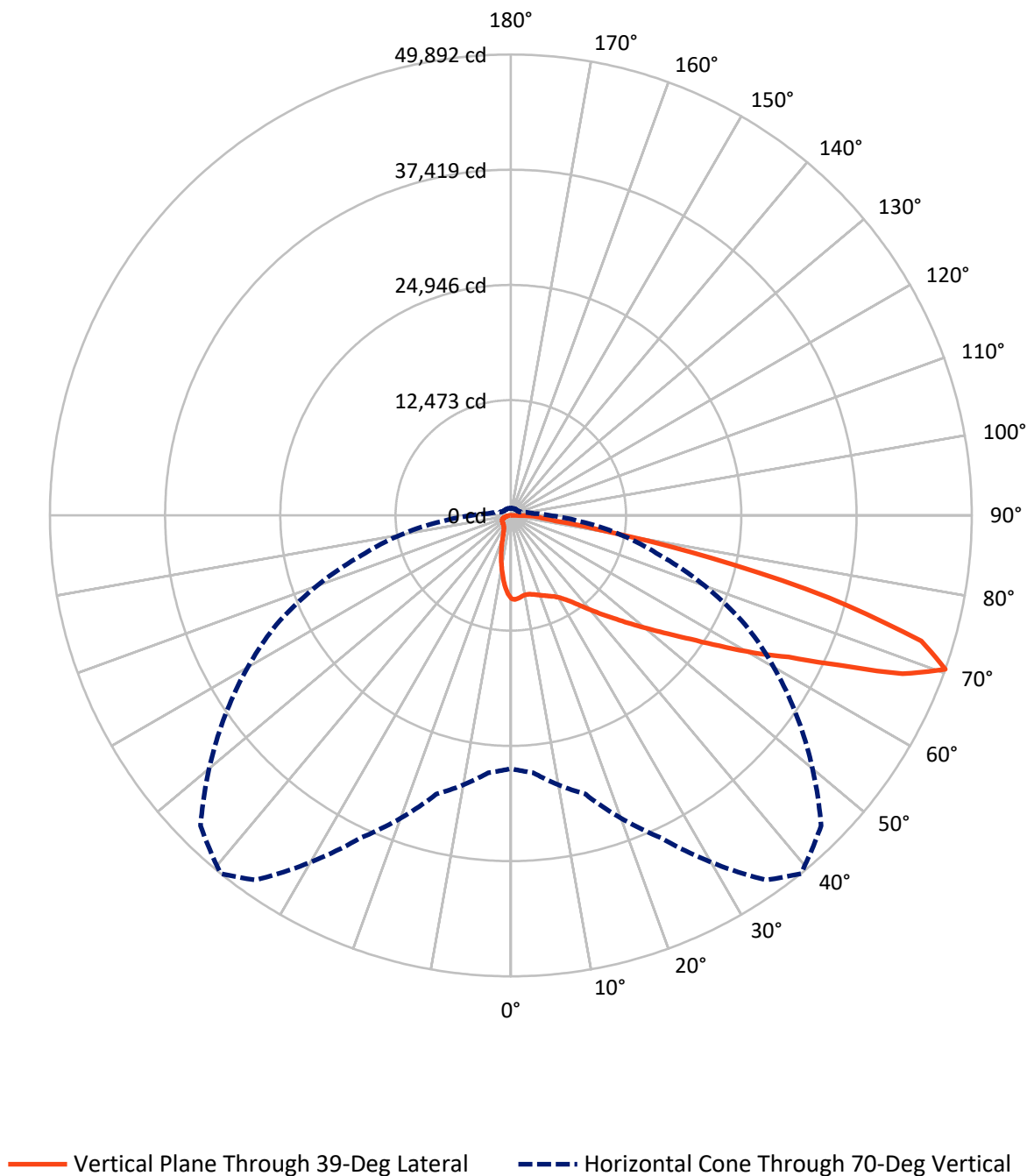


Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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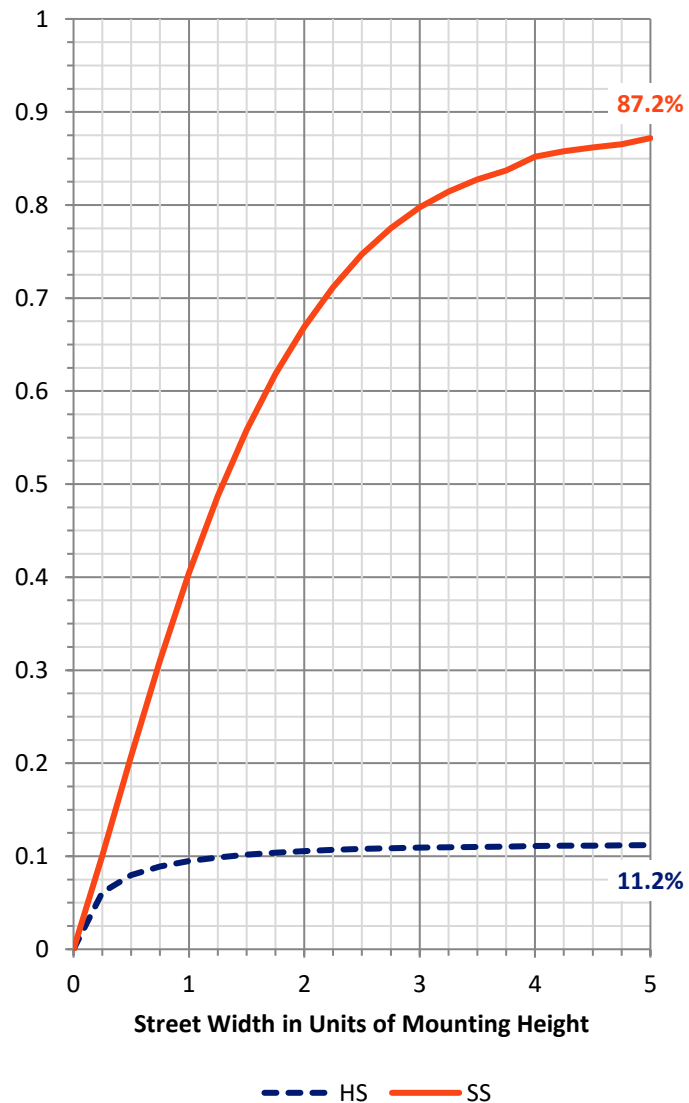
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6755.5	0.0	6755.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	52642.2	0.0	52642.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	59397.7	0.0	59397.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.9	1.3
10°-20°	1934.4	3.3
20°-30°	3011.9	5.1
30°-40°	4692.0	7.9
40°-50°	7877.0	13.3
50°-60°	12513.3	21.1
60°-70°	16691.4	28.1
70°-80°	10079.5	17.0
80°-90°	1824.3	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°	59397.7	100.0
0°-180°	59397.7	100.0

Coefficient of Utilization



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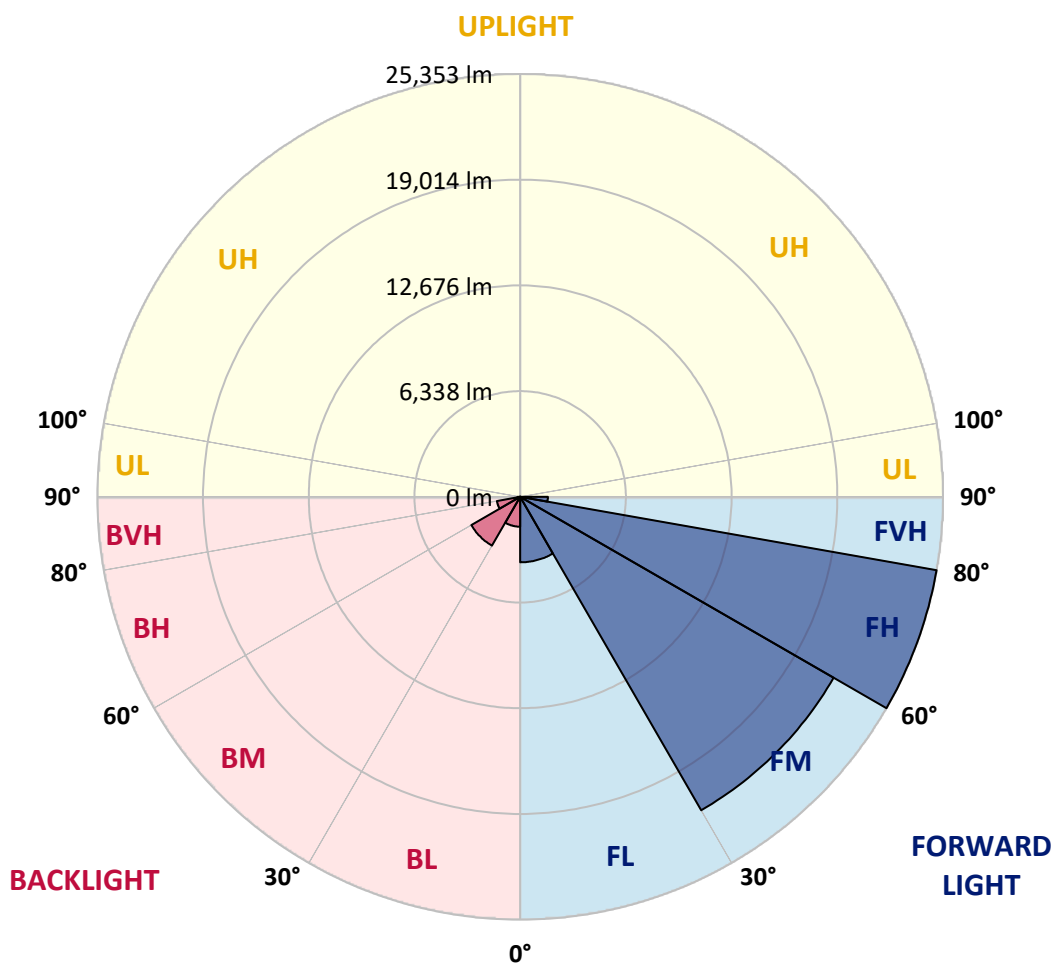
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3928.0	6.6			
FM	(30°-60°)	21701.6	36.5			
FH	(60°-80°)	25352.7	42.7			G5
FVH	(80°-90°)	1659.8	2.8			G5
BL	(0°-30°)	1792.1	3.0	B3/2500		
BM	(30°-60°)	3380.7	5.7	B3/5000		
BH	(60°-80°)	1418.3	2.4	B3/2500		G3/2500
BVH	(80°-90°)	164.4	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°	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5
2.5°	9192.6	9189.6	9165.4	9147.3	9132.2	9126.2	9138.3	9093.0	9053.8	9005.3	8954.2
5°	9123.1	9120.2	9080.9	9044.7	9008.4	8996.3	8993.3	8911.8	8863.4	8791.0	8694.5
7.5°	9047.6	9032.6	8981.2	8920.8	8857.4	8827.3	8797.0	8691.3	8637.0	8564.5	8452.8
10°	8969.2	8951.1	8902.8	8842.4	8781.9	8736.6	8685.3	8582.7	8525.3	8470.9	8341.1
12.5°	8887.5	8872.5	8860.5	8833.3	8791.0	8751.7	8712.5	8624.9	8564.5	8501.1	8350.1
15°	8875.5	8869.5	8896.7	8914.8	8890.7	8866.5	8824.3	8748.7	8685.3	8621.8	8425.6
17.5°	8972.2	8969.2	9038.6	9087.0	9074.8	9032.6	8975.2	8890.7	8839.3	8785.0	8540.4
20°	9183.6	9198.6	9283.2	9346.7	9286.3	9225.9	9132.2	9014.4	8987.3	8963.1	8658.1
22.5°	9582.2	9597.4	9657.8	9681.9	9524.7	9437.3	9307.4	9156.4	9138.3	9156.4	8800.1
25°	10204.3	10189.2	10180.1	10089.5	9802.6	9666.8	9500.6	9343.7	9352.7	9434.2	8999.3
27.5°	11028.7	10947.2	10820.4	10548.6	10092.6	9941.6	9739.3	9594.3	9651.6	9808.8	9298.3
30°	11883.4	11792.8	11499.9	11056.0	10473.0	10307.0	10080.5	9917.5	10068.5	10316.0	9697.0
32.5°	12674.6	12662.5	12233.8	11663.0	10998.6	10853.6	10627.1	10442.9	10687.5	11065.0	10295.0
35°	13538.4	13565.5	13052.1	12366.6	11708.2	11557.2	11394.2	11255.3	11581.4	12100.8	11161.6
37.5°	14462.4	14516.7	13909.8	13136.7	12517.7	12454.1	12357.6	12297.1	12801.5	13520.2	12372.6
40°	15697.6	15643.2	14800.7	14006.4	13511.1	13508.2	13477.9	13550.5	14390.0	15374.4	13928.0
42.5°	17020.3	16860.3	15745.9	14939.6	14601.3	14704.0	14764.4	15060.4	16301.6	17627.4	15824.3
45°	18445.7	18086.3	16727.4	15927.0	15812.3	16029.8	16235.2	16878.4	18551.3	20191.2	17902.1
47.5°	19584.1	19237.0	17742.1	16962.9	17213.6	17542.7	17938.3	18956.1	21070.0	22839.7	19952.6
50°	20481.0	20254.6	18765.9	18170.9	18756.7	19264.0	19910.4	21308.7	23691.3	25418.7	21852.2
52.5°	21350.9	21181.8	19798.7	19409.1	20568.7	21269.3	22148.2	23833.3	26379.0	27955.4	23449.7
55°	22136.0	22015.2	20909.9	20952.2	22700.8	23612.8	24718.0	26708.2	29308.4	30217.4	24802.6
57.5°	23020.9	22866.9	22178.3	22887.9	25439.8	26623.6	28061.2	29939.5	32056.4	32228.6	25832.3
60°	23911.7	23778.8	23585.6	25122.7	28918.7	30162.9	31525.0	33071.1	34843.9	33789.9	25772.1
62.5°	24684.8	24699.9	25041.2	27469.2	32325.2	33765.8	35426.8	36954.8	37365.5	34061.7	23866.5
65°	25995.5	26234.0	27251.8	30791.1	37121.0	39047.6	41086.1	40841.4	38063.0	31522.0	19780.6
67.5°	27553.8	27973.5	30036.1	35218.3	43181.9	45739.8	46527.9	41720.2	35269.7	25624.0	14100.0
70°	27396.8	27973.5	31238.1	38519.2	48176.9	49892.1	47500.4	37758.2	28006.8	16739.4	7489.4
72.5°	24328.5	25152.9	28788.9	37006.1	46603.5	46452.4	41237.0	28148.7	16639.7	6722.4	2926.3
75°	18542.3	19375.8	22504.4	29235.9	36834.0	35565.6	29260.0	15549.6	6314.6	2669.6	1845.2
77.5°	10666.3	11312.6	13728.5	17929.3	23368.2	22066.5	16286.4	6915.7	3074.2	1860.2	1440.5
80°	5955.2	6314.6	7782.3	9096.1	11451.6	10497.3	7287.0	4297.3	2295.1	1349.9	1111.3
82.5°	4708.1	5028.2	6293.6	5737.9	5230.5	4825.9	4185.6	3826.3	1833.1	851.5	664.4
85°	4113.2	4418.1	5327.2	4517.8	3572.6	3276.5	3400.4	3765.8	1425.4	513.4	567.7
87.5°	3811.2	4218.8	4747.4	3482.0	2781.3	2464.3	3137.7	4128.3	459.0	320.1	229.6
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°	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5	9017.5
2.5°	8908.8	8860.5	8781.9	8712.5	8603.7	8546.4	8483.0	8437.6	8401.4	8371.2	8419.5
5°	8634.0	8543.4	8377.2	8199.2	7987.7	7821.7	7682.7	7552.9	7462.2	7401.9	7444.2
7.5°	8374.2	8226.2	7966.5	7643.4	7281.0	6973.0	6719.3	6495.9	6341.9	6242.2	6281.5
10°	8226.2	8042.0	7640.4	7133.1	6598.5	6118.4	5719.7	5375.4	5137.0	5001.1	5022.1
12.5°	8190.1	7951.5	7395.8	6698.1	5967.4	5299.9	4738.2	4261.1	3925.9	3750.8	3756.8
15°	8217.2	7912.2	7166.4	6281.5	5357.3	4514.8	3814.1	3234.3	2844.8	2645.5	2642.4
17.5°	8262.5	7882.0	6924.7	5831.5	4738.2	3759.8	2977.7	2409.9	2065.6	1905.6	1893.5
20°	8310.8	7833.7	6652.9	5345.3	4095.0	3059.2	2331.4	1887.5	1670.0	1582.4	1576.4
22.5°	8380.3	7791.4	6372.0	4831.9	3463.8	2491.4	1917.6	1618.6	1504.0	1458.6	1452.6
25°	8492.0	7770.3	6073.0	4297.3	2896.1	2083.8	1670.0	1485.8	1419.4	1389.1	1386.2
27.5°	8679.2	7800.4	5792.2	3777.9	2434.1	1808.9	1531.0	1419.4	1371.1	1343.9	1340.8
30°	8920.8	7894.1	5496.3	3285.7	2074.8	1621.7	1446.6	1374.1	1334.8	1307.7	1307.7
32.5°	9322.5	8051.1	5185.2	2859.9	1818.0	1491.8	1383.1	1334.8	1301.6	1280.4	1277.5
35°	9914.4	8347.1	4895.3	2506.5	1633.8	1398.2	1328.8	1292.5	1268.4	1256.3	1256.3
37.5°	10775.0	8815.1	4638.6	2252.8	1522.1	1334.8	1277.5	1250.3	1235.1	1235.1	1235.1
40°	11931.7	9461.5	4430.3	2083.8	1458.6	1289.5	1238.1	1217.0	1208.0	1211.0	1211.0
42.5°	13360.1	10301.0	4291.2	1966.0	1428.4	1262.4	1211.0	1192.9	1183.9	1180.8	1183.9
45°	14987.8	11255.3	4276.2	1878.3	1398.2	1244.3	1192.9	1174.7	1156.6	1144.6	1144.6
47.5°	16570.4	12224.7	4400.0	1848.2	1364.9	1223.0	1177.9	1159.7	1132.5	1105.2	1105.2
50°	17968.6	13049.1	4566.2	1860.2	1352.9	1192.9	1153.6	1144.6	1102.3	1072.1	1069.1
52.5°	19079.8	13683.3	4702.0	1896.5	1364.9	1171.7	1123.4	1126.5	1081.1	1047.9	1044.8
55°	19970.7	14100.0	4665.8	1932.8	1392.2	1159.7	1096.2	1102.3	1066.1	1032.8	1032.8
57.5°	20360.4	13946.0	4264.2	1902.5	1413.4	1162.6	1075.1	1099.2	1069.1	1038.8	1038.8
60°	19523.7	12578.0	3512.1	1769.7	1386.2	1153.6	1066.1	1111.3	1108.3	1078.1	1075.1
62.5°	16993.1	10128.8	2724.0	1573.4	1292.5	1108.3	1041.9	1108.3	1141.5	1132.5	1129.4
65°	13097.5	7214.6	2080.8	1362.0	1165.7	1032.8	978.4	1038.8	1084.2	1096.2	1093.2
67.5°	8501.1	4421.1	1603.6	1162.6	1023.8	945.2	896.9	924.2	933.2	933.2	927.1
70°	4179.6	2379.6	1277.5	978.4	878.8	851.5	824.5	809.4	794.2	782.2	782.2
72.5°	2062.6	1555.3	1051.0	827.4	758.0	745.9	739.9	721.7	709.6	694.6	688.6
75°	1525.0	1265.3	893.8	697.6	652.3	640.3	652.3	637.2	634.1	622.1	616.1
77.5°	1253.3	1078.1	770.1	597.9	558.7	537.5	555.7	558.7	561.7	543.6	537.5
80°	1017.7	912.0	643.2	495.3	459.0	443.9	456.0	480.2	486.2	459.0	447.0
82.5°	733.9	745.9	519.4	386.6	356.4	344.2	368.4	398.6	404.7	365.4	356.4
85°	616.1	622.1	398.6	274.8	244.6	226.5	265.7	296.0	317.1	277.8	268.8
87.5°	256.6	365.4	229.6	154.0	135.9	117.8	141.9	157.0	190.2	175.2	172.1
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)