

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: P192848

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61235.4 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - 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



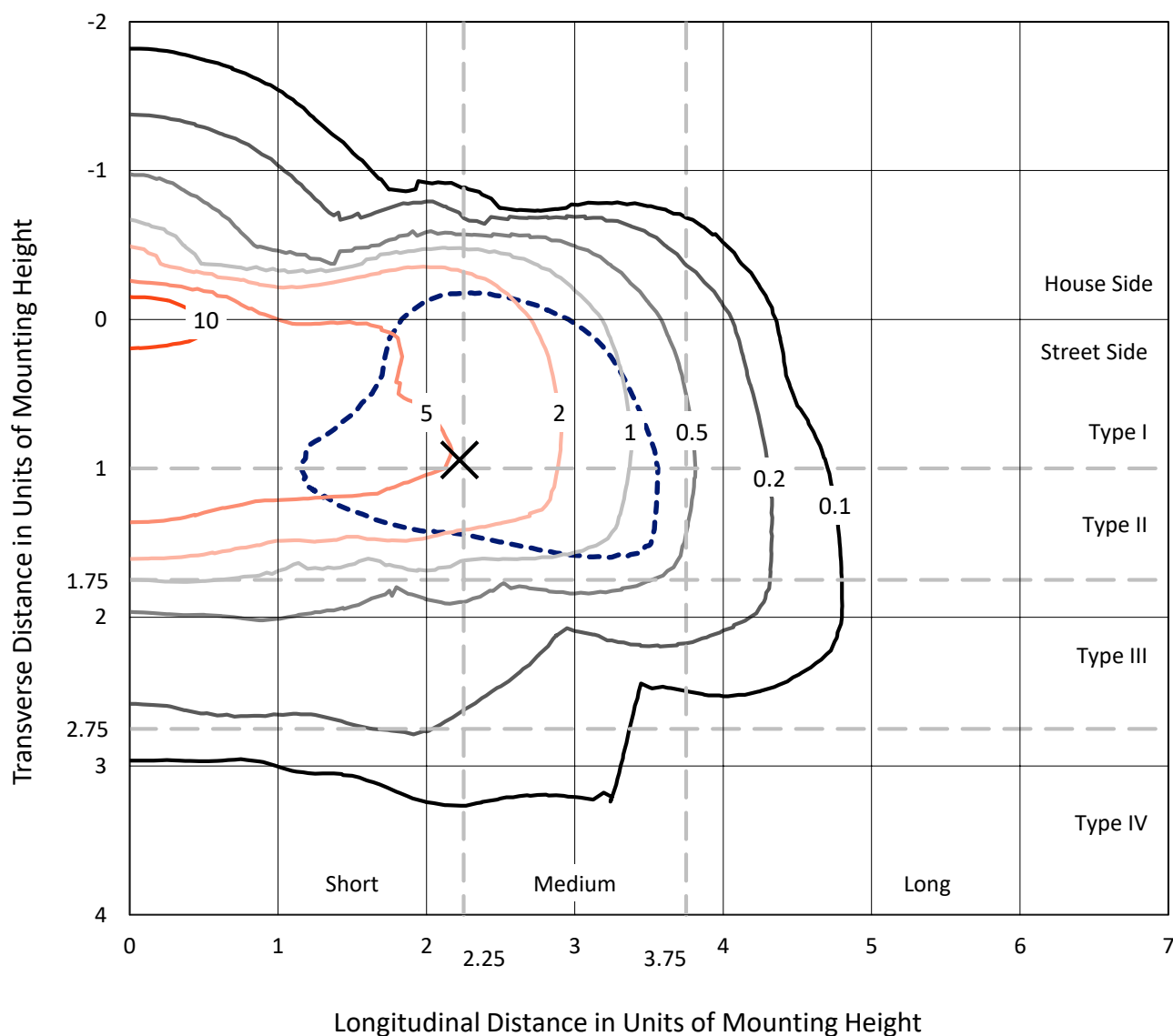
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

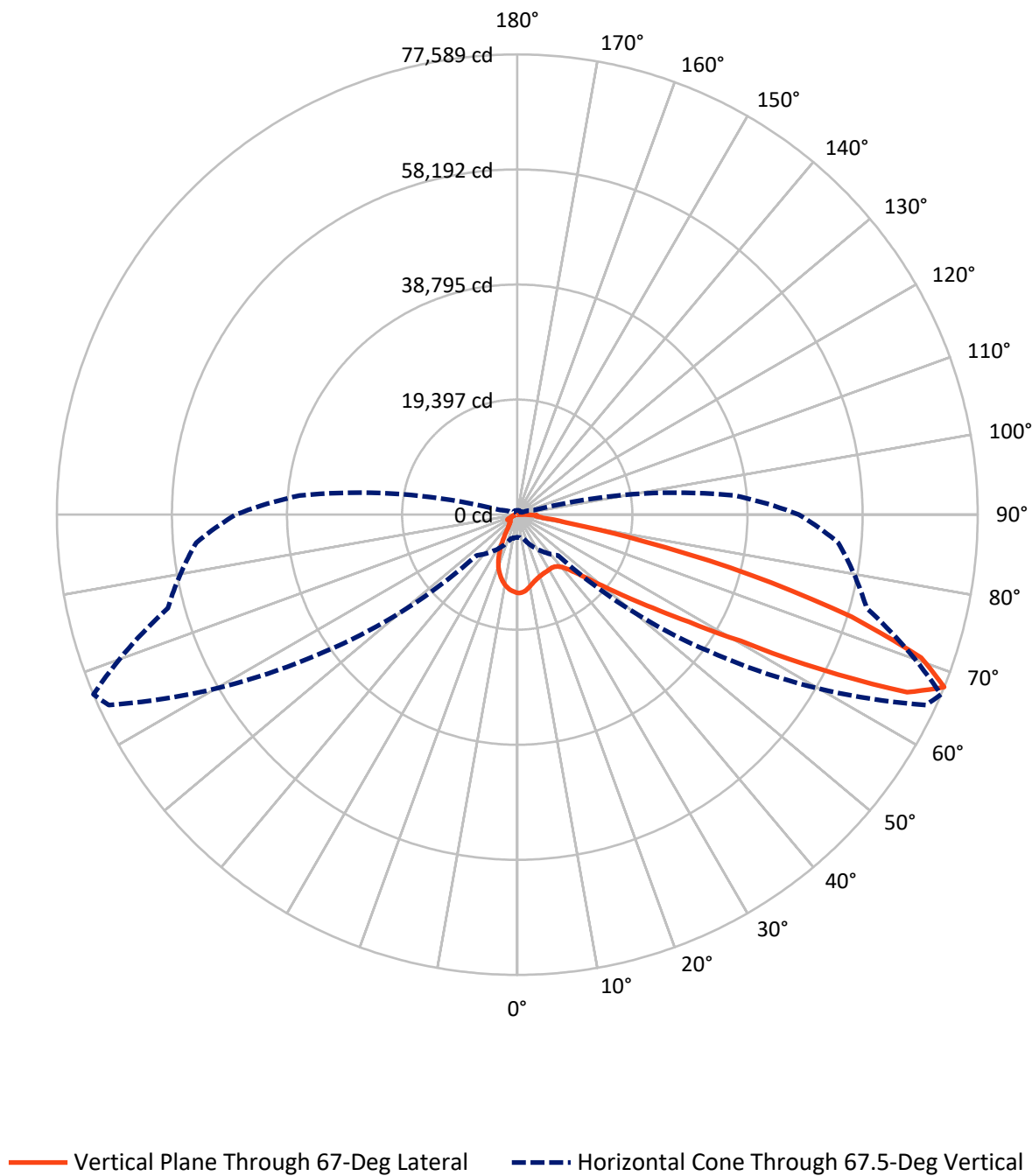


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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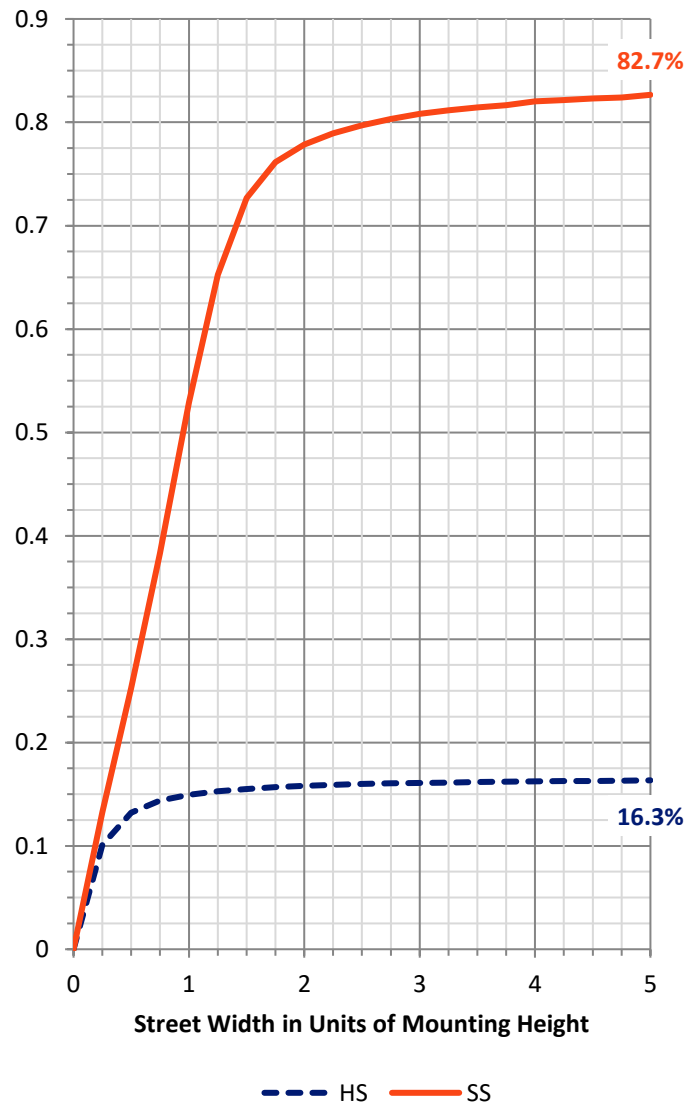
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10146.0	0.0	10146.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	51089.4	0.0	51089.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	61235.4	0.0	61235.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1126.9	1.8
10°-20°	2607.4	4.3
20°-30°	3534.4	5.8
30°-40°	5024.5	8.2
40°-50°	8406.1	13.7
50°-60°	13298.5	21.7
60°-70°	16940.9	27.7
70°-80°	8873.6	14.5
80°-90°	1423.2	2.3
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°	61235.4	100.0
0°-180°	61235.4	100.0

Coefficient of Utilization



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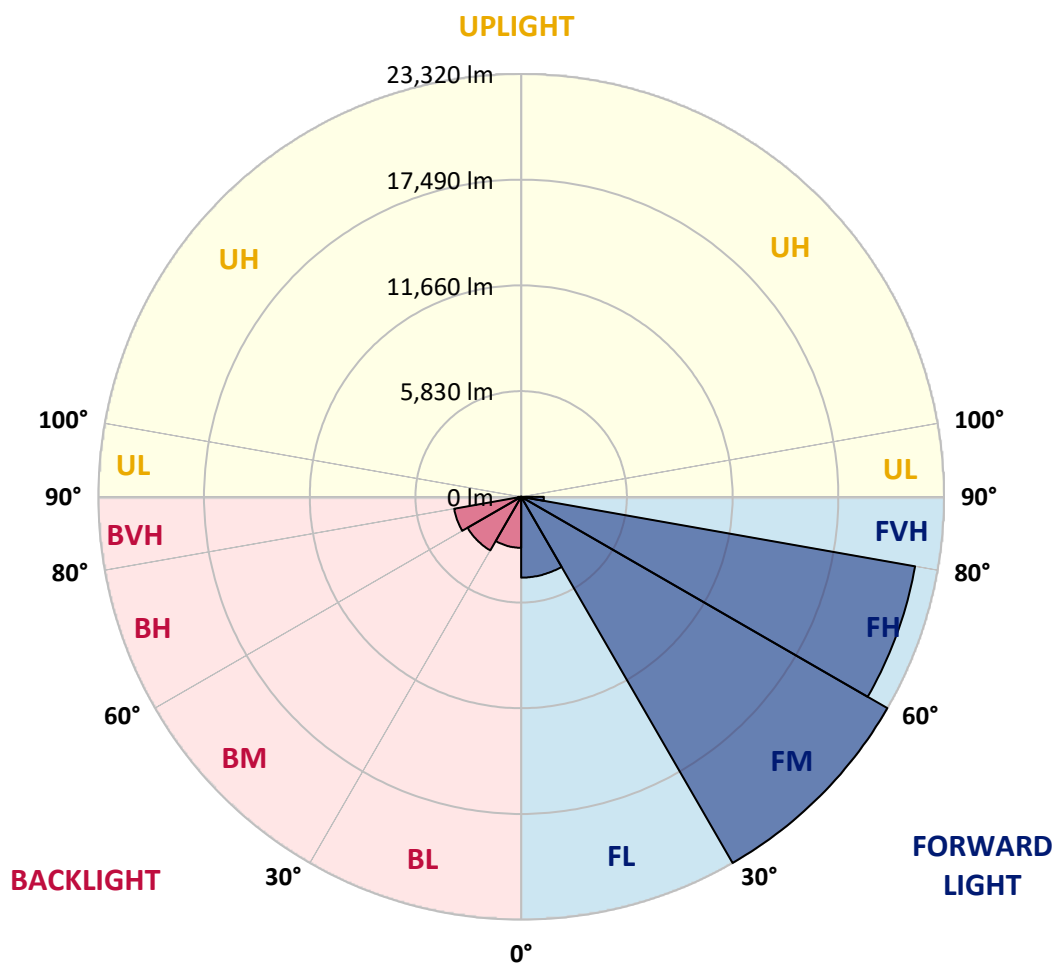
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4456.4	7.3			
FM	(30°-60°)	23319.7	38.1			
FH	(60°-80°)	22061.8	36.0			G5
FVH	(80°-90°)	1251.4	2.0			G5
BL	(0°-30°)	2812.2	4.6	B4/5000		
BM	(30°-60°)	3409.4	5.6	B3/5000		
BH	(60°-80°)	3752.7	6.1	B4/5000		G4/5000
BVH	(80°-90°)	171.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4
2.5°	12664.8	12685.9	12752.3	12794.6	12984.9	13066.5	13123.7	13181.1	13190.3	13217.4	13190.3
5°	11336.0	11381.4	11505.2	11644.1	12012.5	12302.4	12607.4	12924.5	12981.8	13187.1	13244.6
7.5°	10306.3	10294.3	10397.0	10563.0	10940.4	11342.1	11876.6	12507.8	12631.6	13093.6	13317.1
10°	9554.5	9545.4	9654.1	9826.2	10185.5	10566.0	11170.0	12033.7	12208.8	12945.6	13386.6
12.5°	8998.8	9001.9	9110.6	9300.8	9666.1	10049.6	10662.7	11574.7	11798.2	12773.5	13459.0
15°	8630.4	8654.5	8742.2	8944.5	9300.8	9684.3	10285.2	11230.4	11481.1	12637.6	13540.5
17.5°	8506.6	8545.8	8576.1	8724.1	9028.9	9412.5	10001.4	10976.7	11242.4	12543.9	13612.9
20°	8621.3	8666.7	8609.3	8660.7	8853.9	9192.1	9777.9	10777.5	11049.2	12438.3	13622.0
22.5°	9113.6	9155.8	8986.8	8838.7	8826.7	9032.0	9593.7	10620.4	10901.3	12359.7	13625.0
25°	9980.3	10007.4	9723.5	9379.4	9044.2	8974.7	9463.8	10511.8	10810.6	12290.3	13567.7
27.5°	11043.2	11064.3	10738.2	10230.9	9557.5	9110.6	9418.5	10448.3	10759.3	12229.9	13471.0
30°	12335.6	12435.3	11997.4	11357.3	10375.8	9512.2	9509.2	10415.0	10702.0	12127.2	13280.8
32.5°	13658.3	13700.6	13398.6	12749.4	11478.0	10218.8	9762.9	10439.2	10686.8	12003.4	13039.2
35°	14999.0	15053.4	14857.1	14334.7	12984.9	11254.6	10258.1	10581.2	10780.5	11961.1	12870.0
37.5°	16735.4	16807.9	16536.1	15932.1	14817.8	12658.8	11082.3	10937.5	11067.3	12082.0	12818.9
40°	19480.4	19447.2	18653.0	17753.0	16822.9	14455.4	12260.1	11541.5	11616.9	12471.5	12975.8
42.5°	22675.2	22593.7	21225.7	19812.5	19027.4	16629.7	13818.3	12589.3	12574.2	13238.5	13528.5
45°	25223.9	25157.5	23925.4	22183.0	21554.8	19105.8	15832.5	14150.5	14038.7	14455.4	14549.1
47.5°	26603.9	26607.0	25897.2	24474.9	24459.9	22252.5	18420.4	16409.2	16216.0	16412.3	16312.6
50°	26120.7	26184.2	26108.7	25655.7	27111.3	26377.4	21799.5	19558.8	19169.3	19362.6	18979.1
52.5°	23783.4	23865.0	24312.0	25006.5	28225.5	31363.0	26763.9	23472.3	23019.5	22950.0	22524.3
55°	19640.3	19740.0	20651.9	22539.3	27298.4	34711.8	34597.2	28461.1	27739.3	27084.1	26902.8
57.5°	13537.4	13703.7	15171.2	17973.4	24299.8	35723.5	43925.1	35572.5	34105.0	31816.0	31858.3
60°	7630.8	7824.2	9554.5	12100.1	18248.3	34624.4	51021.5	46344.0	43245.7	37357.2	37671.3
62.5°	4852.8	5061.1	6374.6	8407.0	10949.5	28705.6	53929.5	61318.8	57384.0	44187.8	44495.9
65°	3928.6	4019.3	4638.3	6939.4	7951.1	17294.0	51722.1	73654.4	72186.8	52857.6	51420.1
67.5°	3835.1	3865.3	4185.4	5825.0	7624.8	9720.6	41255.6	75961.5	77589.2	60953.4	54303.9
70°	3789.7	3895.4	4716.8	5559.3	7301.7	8198.6	24792.0	69638.1	72208.1	63070.2	50465.9
72.5°	1839.1	1833.0	2373.5	5027.9	8225.8	8503.5	12737.2	56345.3	58924.2	54642.2	41470.1
75°	1482.6	1355.9	1295.5	1842.0	7908.7	8781.3	8117.1	38770.4	40636.6	36635.5	25492.6
77.5°	1407.1	1256.3	1150.5	1153.6	3342.9	9312.8	6875.9	21458.3	22001.9	16548.2	6984.6
80°	1165.6	1026.7	951.2	1072.1	1618.5	8869.0	7434.5	9711.5	8911.3	4064.6	2325.1
82.5°	809.3	736.9	715.6	899.9	1295.5	6320.3	8645.4	5218.1	4375.7	2035.3	1434.3
85°	516.4	440.9	489.2	655.3	1008.6	2917.1	8905.1	4067.6	3234.2	1292.4	809.3
87.5°	238.5	193.3	241.6	362.4	658.3	1005.6	8473.4	4568.9	3330.8	682.5	510.4
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°	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4	13208.4
2.5°	13214.4	13157.0	13111.6	13027.2	12933.6	12843.0	12761.4	12658.8	12628.5	12601.4	12643.6
5°	13256.7	13199.3	13033.2	12773.5	12486.5	12217.8	11949.1	11719.5	11577.6	11499.2	11544.5
7.5°	13320.1	13238.5	12894.2	12417.2	11900.7	11429.7	10943.5	10554.0	10267.1	10131.2	10170.5
10°	13377.4	13220.4	12658.8	11943.0	11188.1	10487.6	9720.6	9086.4	8615.3	8367.7	8428.0
12.5°	13401.6	13151.0	12329.6	11351.2	10315.3	9288.6	8159.4	7211.1	6534.7	6287.1	6235.8
15°	13425.8	13072.5	11967.2	10677.8	9261.6	7809.1	6226.6	5091.3	4529.6	4405.8	4378.7
17.5°	13431.8	12936.6	11556.6	9947.1	8026.5	6048.5	4257.9	3536.0	3539.1	3738.5	3762.6
20°	13368.4	12734.2	11058.2	9038.0	6546.9	4182.3	2923.1	2799.3	3255.3	3753.5	3813.9
22.5°	13223.4	12465.5	10493.6	7978.1	4852.8	2754.0	2261.7	2397.7	2986.5	3596.5	3665.9
25°	13039.2	12139.4	9826.2	6749.2	3213.0	1968.9	1896.4	2062.5	2461.1	2868.7	2908.1
27.5°	12788.6	11752.8	9077.4	5341.9	2086.7	1621.6	1669.9	1781.7	1944.7	2125.8	2144.0
30°	12465.5	11290.9	8277.2	3895.4	1576.3	1458.5	1528.0	1588.4	1657.8	1760.5	1769.6
32.5°	12094.0	10846.9	7455.8	2690.6	1398.2	1373.9	1428.3	1458.5	1512.9	1576.3	1582.3
35°	11783.1	10424.1	6604.1	1902.4	1322.7	1310.6	1346.8	1358.8	1410.2	1479.7	1485.7
37.5°	11604.9	10079.9	5725.4	1534.0	1271.3	1253.2	1274.3	1274.3	1346.8	1449.5	1464.6
40°	11616.9	9889.6	4846.6	1386.1	1229.0	1204.9	1207.9	1207.9	1301.5	1413.3	1422.3
42.5°	11946.1	9938.0	4067.6	1328.7	1195.9	1168.6	1153.6	1162.6	1241.0	1313.7	1319.7
45°	12719.1	10279.2	3336.8	1292.4	1162.6	1153.6	1120.4	1117.2	1147.5	1180.8	1180.8
47.5°	13987.5	10952.5	2841.7	1268.3	1135.4	1132.4	1093.1	1054.0	1050.8	1063.0	1063.0
50°	16049.8	12112.2	2509.3	1241.0	1117.2	1093.1	1047.8	987.4	966.3	975.3	975.3
52.5°	19142.1	14180.6	2382.6	1204.9	1078.1	1038.8	987.4	927.1	908.9	912.0	912.0
55°	23197.6	17357.5	2364.5	1162.6	1035.8	972.4	930.2	884.8	863.7	869.7	869.7
57.5°	28153.1	21751.3	2687.6	1096.2	978.4	905.9	881.7	851.5	836.5	845.5	842.5
60°	34177.4	27500.8	3986.1	1026.7	921.0	845.5	845.5	821.4	809.3	818.4	815.3
62.5°	41116.8	34105.0	5604.7	975.3	860.6	797.3	809.3	797.3	785.1	791.1	788.2
65°	47271.0	38408.0	5248.3	936.2	800.3	751.9	773.0	767.0	757.9	763.9	761.0
67.5°	47449.1	36813.6	2947.3	893.8	742.9	706.6	736.9	733.7	727.7	733.7	730.7
70°	42345.8	31085.2	1660.8	815.3	682.5	652.3	694.6	691.5	685.5	697.5	694.6
72.5°	33926.7	22557.4	1214.0	718.7	622.0	594.9	643.2	640.1	640.1	658.3	649.2
75°	19522.6	11607.9	969.3	616.0	558.7	537.5	579.8	582.8	588.8	613.1	594.9
77.5°	5565.3	3617.7	791.1	522.4	480.0	471.1	513.4	519.4	522.4	549.6	525.4
80°	2068.5	1666.9	652.3	437.9	392.6	395.6	434.9	443.9	446.9	474.0	443.9
82.5°	1319.7	1099.1	528.5	338.1	308.0	305.0	353.4	365.4	365.4	368.4	350.2
85°	770.1	658.3	398.6	244.6	217.4	208.3	262.8	283.8	274.8	268.8	256.6
87.5°	516.4	453.0	244.6	135.9	117.8	111.8	154.0	169.2	163.1	154.0	145.0
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)