

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: P192918

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56986.4 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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

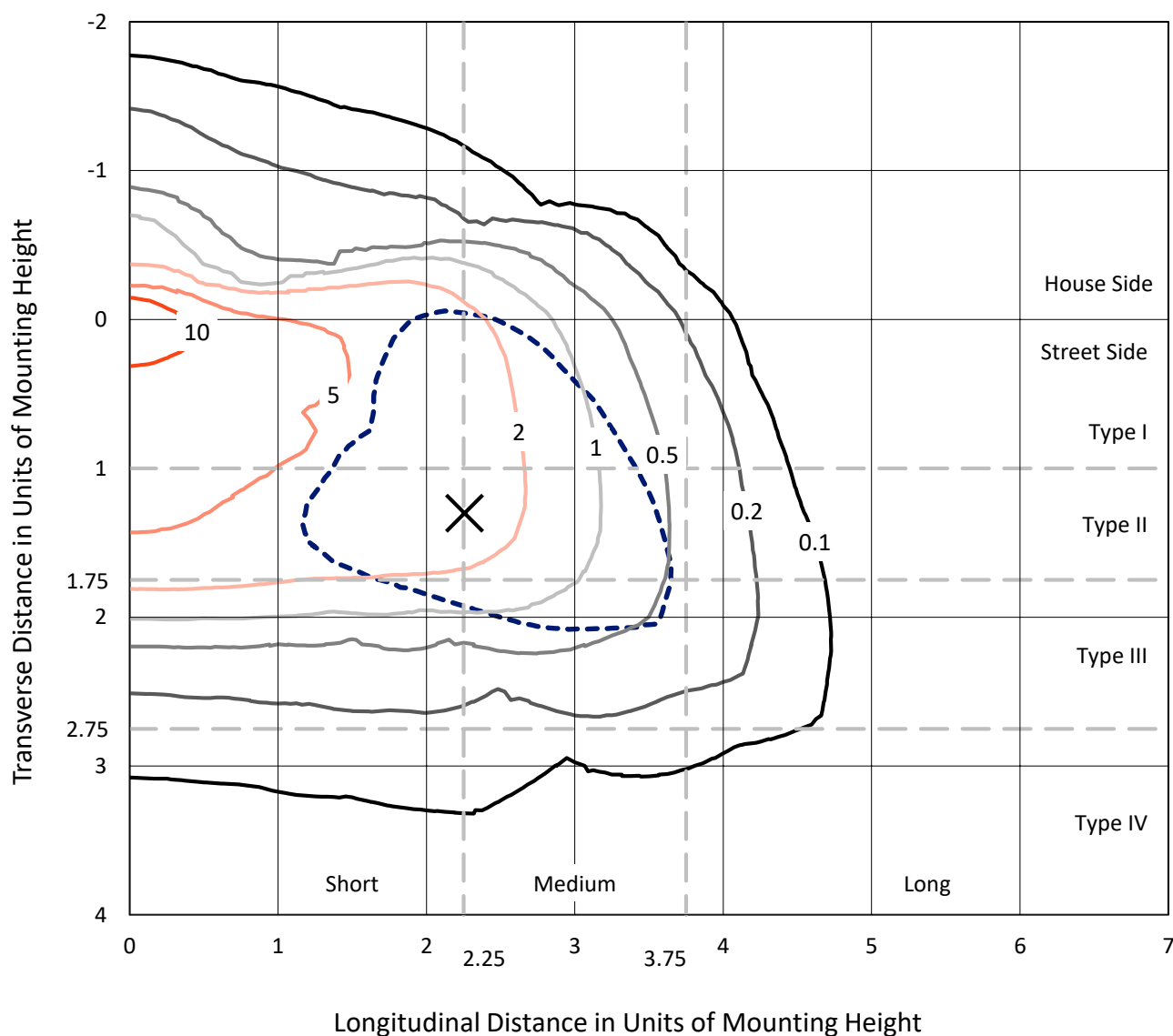


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

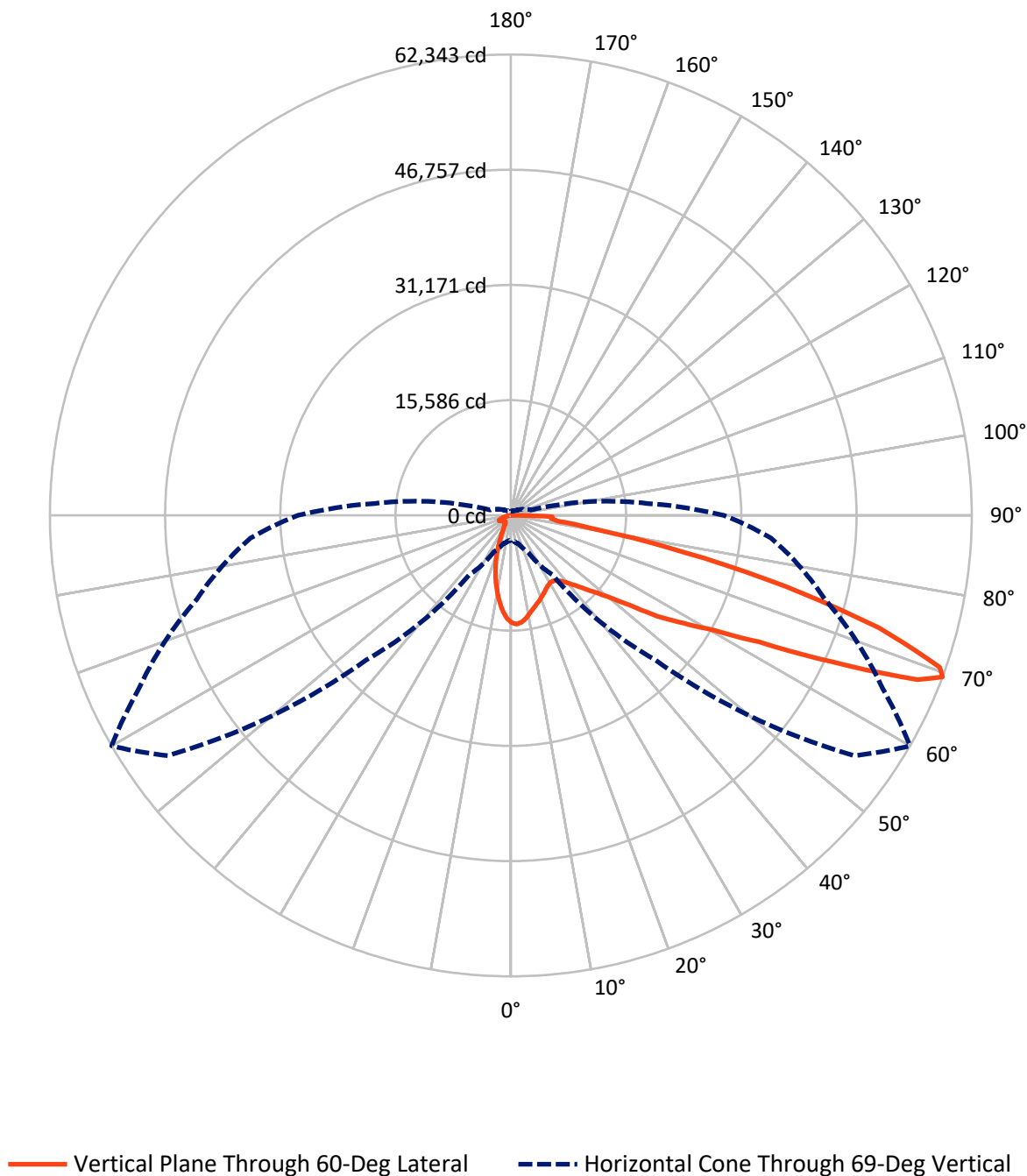


Based on 30 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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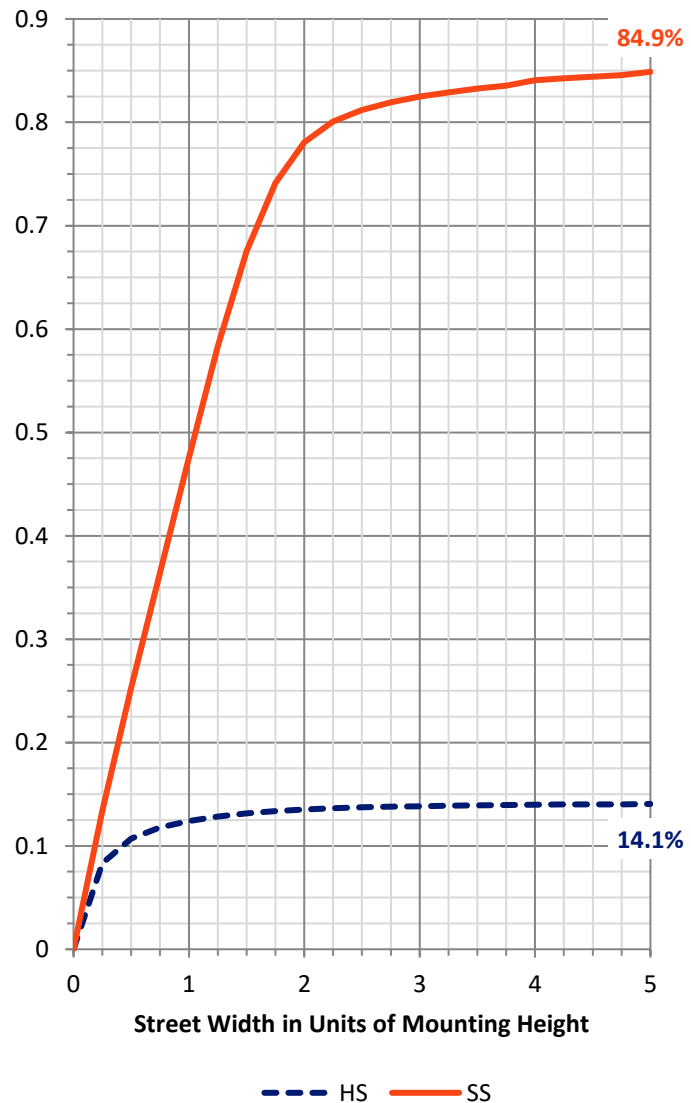
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8107.4	0.0	8107.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	48879.0	0.0	48879.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	56986.4	0.0	56986.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1227.8	2.2
10°-20°	2615.9	4.6
20°-30°	3333.1	5.8
30°-40°	4582.2	8.0
40°-50°	7435.1	13.0
50°-60°	11924.0	20.9
60°-70°	15869.9	27.8
70°-80°	8568.5	15.0
80°-90°	1429.7	2.5
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°	56986.4	100.0
0°-180°	56986.4	100.0

Coefficient of Utilization



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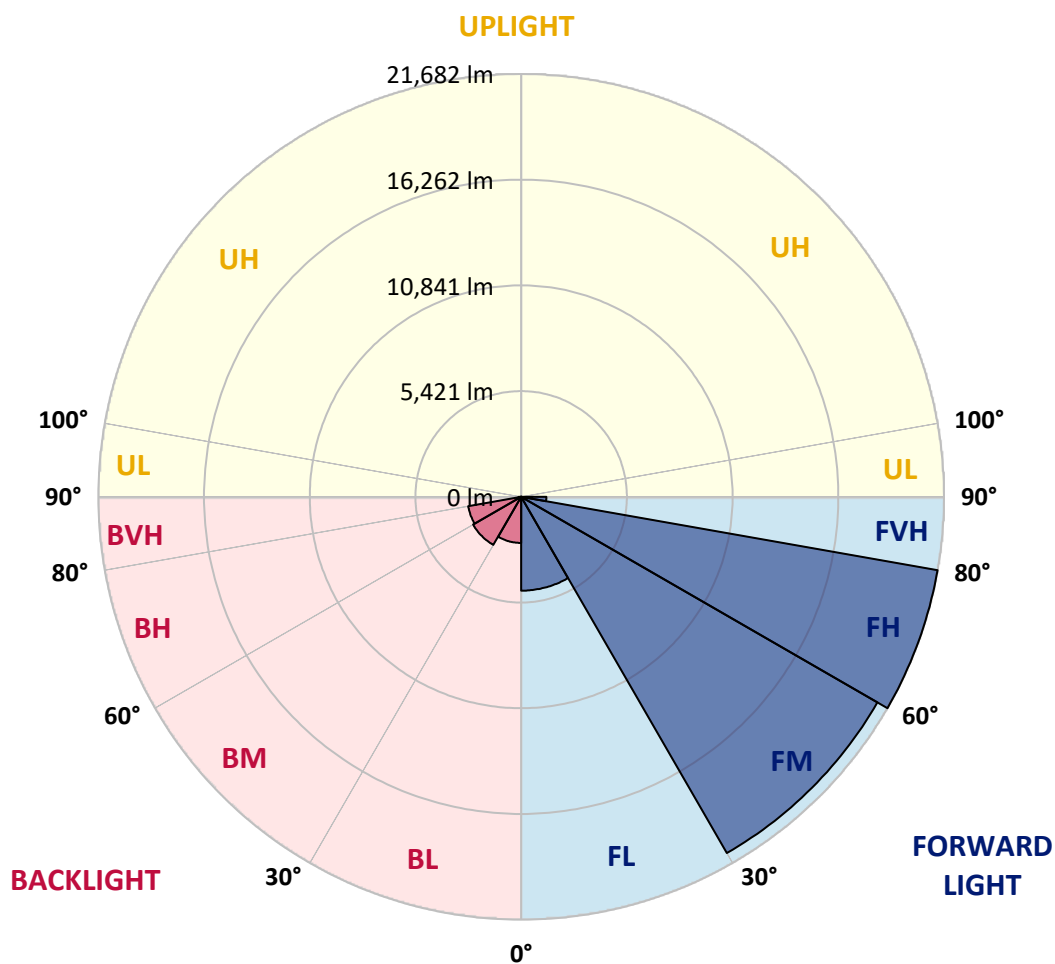
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4811.7	8.4			
FM	(30°-60°)	21093.0	37.0			
FH	(60°-80°)	21682.2	38.0			G5
FVH	(80°-90°)	1292.0	2.3			G5
BL	(0°-30°)	2365.2	4.2	B3/2500		
BM	(30°-60°)	2848.3	5.0	B3/5000		
BH	(60°-80°)	2756.2	4.8	B4/5000		G4/5000
BVH	(80°-90°)	137.7	0.2			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0
2.5°	14818.3	14851.3	14837.5	14829.3	14854.2	14815.5	14735.7	14710.8	14672.4	14581.5	14427.3
5°	14262.2	14361.4	14355.8	14430.2	14554.0	14587.1	14551.2	14556.7	14485.1	14372.3	14116.3
7.5°	13301.6	13342.7	13364.8	13527.3	13753.0	13934.6	14088.8	14138.3	14105.4	14009.0	13678.6
10°	12310.5	12343.6	12395.8	12585.8	12872.1	13122.6	13414.5	13582.2	13653.9	13637.3	13268.5
12.5°	11459.8	11492.9	11561.7	11776.4	12117.8	12426.2	12850.1	13059.2	13229.8	13331.9	12935.4
15°	10697.3	10768.9	10835.0	11082.7	11465.3	11870.0	12349.0	12613.3	12877.7	13106.0	12640.9
17.5°	10102.7	10174.3	10212.9	10438.6	10846.0	11341.5	11903.0	12214.1	12544.5	12918.9	12349.0
20°	9758.6	9791.7	9775.2	9901.8	10267.9	10793.7	11459.8	11820.5	12219.7	12742.7	12057.2
22.5°	9662.4	9665.1	9604.6	9590.8	9827.5	10270.7	10986.3	11424.1	11914.0	12627.1	11806.8
25°	9896.2	9888.1	9722.9	9587.9	9612.7	9871.5	10529.5	11038.7	11658.1	12602.3	11614.0
27.5°	10416.6	10441.4	10196.4	9943.1	9692.6	9684.3	10182.6	10719.4	11448.8	12715.1	11531.4
30°	11146.1	11187.4	10925.8	10603.7	10133.0	9745.0	10047.7	10529.5	11319.5	12949.2	11517.7
32.5°	11944.3	11988.4	11790.1	11451.6	10835.0	10119.3	10141.3	10545.9	11314.1	13276.7	11611.3
35°	12795.1	12844.5	12742.7	12456.4	11770.9	10810.2	10499.2	10813.0	11492.9	13777.7	11861.8
37.5°	13744.7	13821.8	13849.2	13576.8	12844.5	11721.5	11085.6	11319.5	11897.6	14474.2	12321.5
40°	15112.8	15220.3	15211.9	14821.0	14075.0	12951.9	11991.2	12051.8	12528.0	15404.7	13056.5
42.5°	17733.6	17755.5	17070.1	16219.4	15429.4	14245.7	13059.2	13009.7	13397.8	16582.9	14138.3
45°	21067.2	20976.2	19451.2	17807.8	16844.4	15732.2	14449.4	14207.2	14501.8	18019.8	15492.8
47.5°	23833.7	23624.5	21697.5	19429.2	18341.9	17348.0	16081.9	15658.0	15820.3	19649.4	17243.6
50°	24794.4	24637.5	23040.9	20778.1	19759.5	19319.1	18091.3	17491.2	17535.3	21592.9	19294.3
52.5°	24587.9	24566.0	23500.6	21667.2	21086.4	21389.2	20937.8	20125.7	19696.2	23751.1	21507.5
55°	24100.7	24147.5	23762.1	22702.3	22603.2	23387.7	24656.7	24056.7	22721.5	25928.6	23795.1
57.5°	22407.8	22528.8	23376.7	24004.4	25045.0	26212.1	27651.8	27481.1	25978.1	28282.2	26514.9
60°	18052.8	18333.6	20607.4	23751.1	27558.3	31208.4	31852.6	31456.2	29336.5	31203.0	30107.3
62.5°	12649.1	12940.8	15644.2	20563.3	27145.4	36851.6	39362.2	37652.7	34159.5	35505.6	34756.8
65°	6771.9	6912.3	8976.8	14267.7	22917.0	38016.1	50337.6	47736.3	41795.7	40810.2	38734.6
67.5°	3735.6	3812.6	4602.6	7204.0	14677.9	33476.7	57329.7	59295.2	51339.7	44342.0	38010.5
69°	3377.6	3449.2	3966.7	5456.1	9822.0	27679.3	56647.0	62342.6	55523.8	43992.3	35334.9
70°	3303.4	3369.4	3834.7	5029.3	7950.0	22815.2	54359.4	61563.4	56520.4	42739.9	33000.4
72.5°	2973.1	3044.6	3496.1	4517.4	6793.8	11374.6	43059.2	52052.5	51314.8	37058.1	25031.2
75°	2772.0	2838.1	3603.4	4423.7	6504.9	7198.5	28386.7	38362.9	37721.5	25923.1	13496.9
77.5°	1186.4	1181.0	1670.9	3743.8	6601.2	6970.0	15253.2	23965.8	21865.4	11080.0	3876.0
80°	792.7	779.0	792.7	1101.2	6053.4	7008.7	7991.3	12164.6	9188.8	2824.4	1910.4
82.5°	682.7	671.7	696.4	671.7	2128.0	7999.6	6793.8	6469.0	4368.7	1604.9	947.0
85°	459.8	440.5	600.2	602.9	1004.7	7107.8	7652.7	5464.3	3534.5	952.4	467.9
87.5°	220.2	214.7	349.6	426.6	589.1	2887.7	8585.9	5599.2	3564.9	487.3	223.0
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°	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0	14521.0
2.5°	14380.6	14267.7	14157.6	14025.5	13887.8	13733.7	13656.7	13579.5	13560.2	13538.2	13461.2
5°	13984.2	13824.6	13549.2	13246.5	12927.1	12616.0	12379.3	12230.7	12117.8	12060.0	11958.1
7.5°	13472.2	13238.2	12756.4	12233.4	11696.6	11206.6	10782.7	10515.6	10262.4	10144.0	10009.1
10°	12984.9	12635.3	11886.6	11115.8	10345.0	9604.6	8908.0	8415.2	7977.6	7732.6	7559.2
12.5°	12566.5	12087.6	11049.7	10006.4	8949.3	7895.0	6851.7	6031.3	5345.9	4985.3	4800.9
15°	12159.1	11581.1	10254.2	8930.1	7573.0	6138.7	4767.8	3837.4	3270.3	3044.6	2967.5
17.5°	11790.1	11049.7	9455.9	7845.5	6152.5	4418.2	3204.2	2692.2	2474.7	2400.4	2375.7
20°	11391.1	10512.9	8627.2	6711.4	4671.5	3088.6	2502.2	2276.5	2188.5	2166.5	2155.4
22.5°	11005.6	9984.3	7834.4	5497.4	3355.7	2383.9	2149.9	2056.4	2042.6	2061.8	2061.8
25°	10678.1	9510.9	6978.3	4228.4	2463.8	2006.8	1924.2	1902.2	1954.4	2026.1	2039.9
27.5°	10433.0	9122.7	6067.1	3121.6	1962.8	1745.3	1742.4	1778.3	1907.6	2045.4	2072.8
30°	10265.1	8753.9	5092.7	2251.9	1646.2	1536.0	1580.1	1657.1	1847.1	2042.6	2094.8
32.5°	10179.8	8481.4	4076.9	1742.4	1409.5	1349.0	1423.2	1516.7	1704.0	1885.7	1954.4
35°	10245.9	8280.4	3119.0	1453.4	1244.3	1197.5	1274.5	1365.4	1475.5	1552.6	1604.9
37.5°	10493.7	8200.6	2353.7	1302.1	1131.4	1087.3	1147.9	1200.2	1244.3	1266.4	1291.0
40°	11027.6	8285.9	1885.7	1225.1	1068.1	1013.1	1037.9	1057.1	1084.6	1106.6	1117.6
42.5°	11815.0	8541.9	1690.2	1194.8	1035.0	955.3	949.7	957.9	993.7	1035.0	1043.3
45°	12916.1	8993.3	1676.5	1214.0	1018.6	908.4	883.7	894.7	949.7	1013.1	1024.1
47.5°	14322.8	9681.6	1786.6	1271.8	1032.3	883.7	842.4	856.1	925.0	1010.3	1024.1
50°	16026.8	10642.3	1971.0	1357.1	1092.8	889.2	828.6	836.8	908.4	1002.0	1015.8
52.5°	18039.0	12005.0	2172.0	1439.7	1156.2	925.0	839.5	820.3	886.4	969.0	985.5
55°	20277.1	13753.0	2378.5	1514.0	1189.2	969.0	861.6	798.3	845.1	914.0	927.7
57.5°	23024.4	16197.4	2736.3	1585.6	1211.2	999.2	883.7	776.3	792.7	842.4	853.4
60°	26743.4	19654.9	3366.8	1704.0	1260.8	1010.3	880.8	757.0	740.4	768.0	773.5
62.5°	31200.2	23409.8	3892.5	1852.6	1343.4	1018.6	864.4	743.3	696.4	696.4	702.0
65°	33845.6	24414.5	3600.6	1976.5	1412.1	1010.3	845.1	729.6	663.4	633.1	635.9
67.5°	31602.0	21471.7	3085.9	2001.3	1409.5	971.8	814.8	704.7	630.4	583.6	580.8
69°	28791.5	18526.3	2854.6	1935.2	1343.4	922.1	776.3	677.2	605.7	556.0	553.3
70°	26526.0	16728.6	2703.3	1863.6	1271.8	886.4	746.0	652.4	586.4	539.5	534.1
72.5°	19286.1	10961.7	2309.6	1602.2	1048.8	743.3	644.2	572.6	523.1	495.5	490.0
75°	9637.5	5227.5	1874.7	1299.3	803.8	594.6	528.5	479.0	454.2	448.7	446.0
77.5°	3165.7	2395.0	1340.6	969.0	597.3	465.2	426.6	390.9	385.3	401.8	396.4
80°	1739.7	1392.9	850.6	641.4	407.4	341.3	335.9	316.6	324.8	352.4	346.9
82.5°	886.4	724.0	525.7	385.3	275.4	245.0	267.0	256.0	267.0	291.8	289.0
85°	437.7	396.4	333.1	234.1	181.7	156.9	189.9	198.2	203.7	223.0	223.0
87.5°	253.3	234.1	176.1	110.2	90.8	82.6	110.2	107.4	126.6	137.6	134.9
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)