

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: P194528

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194528
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-SL3-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA 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: 64636 lumens
Efficiency: N/A
Efficacy: 101.0 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): 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

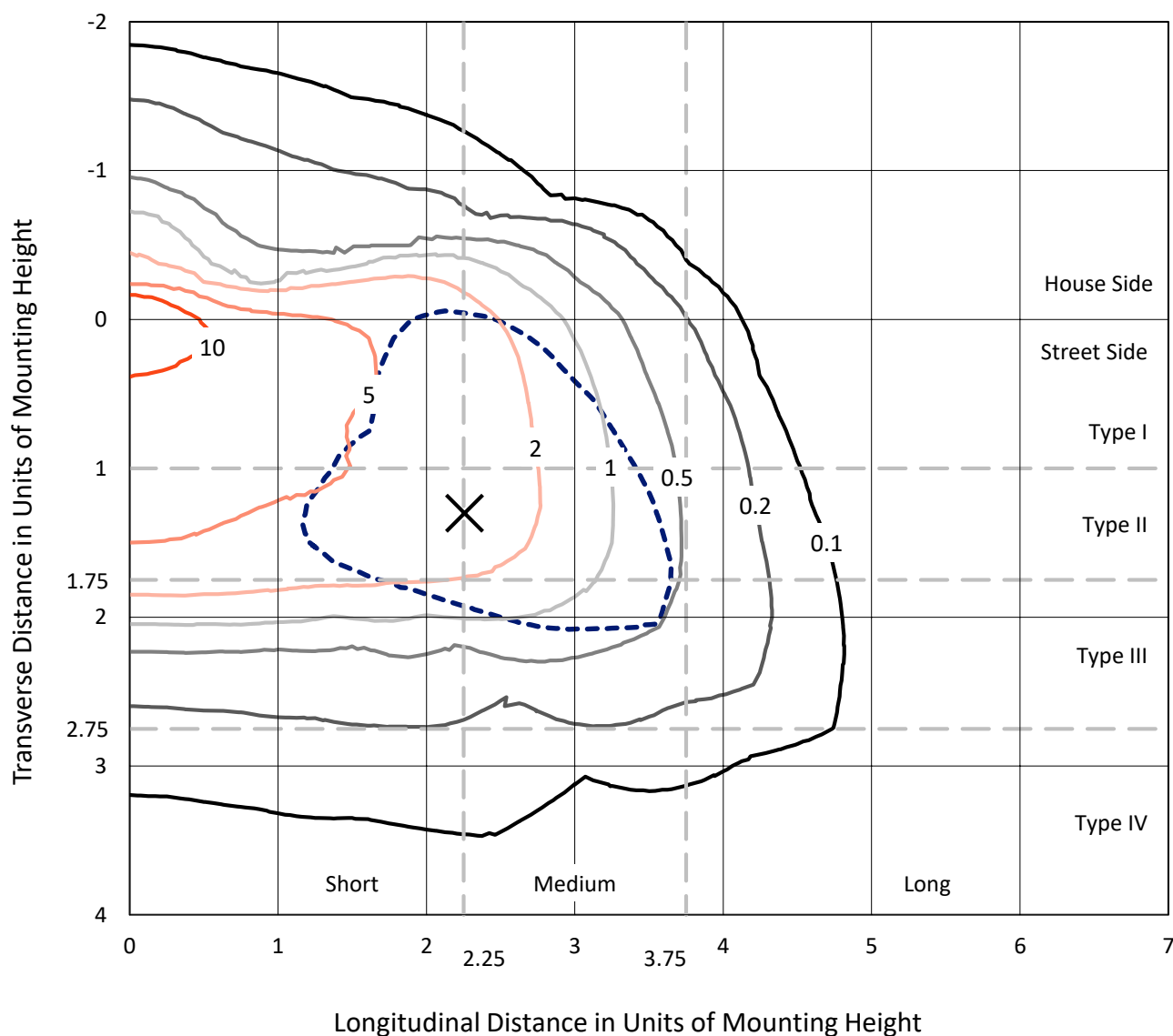


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

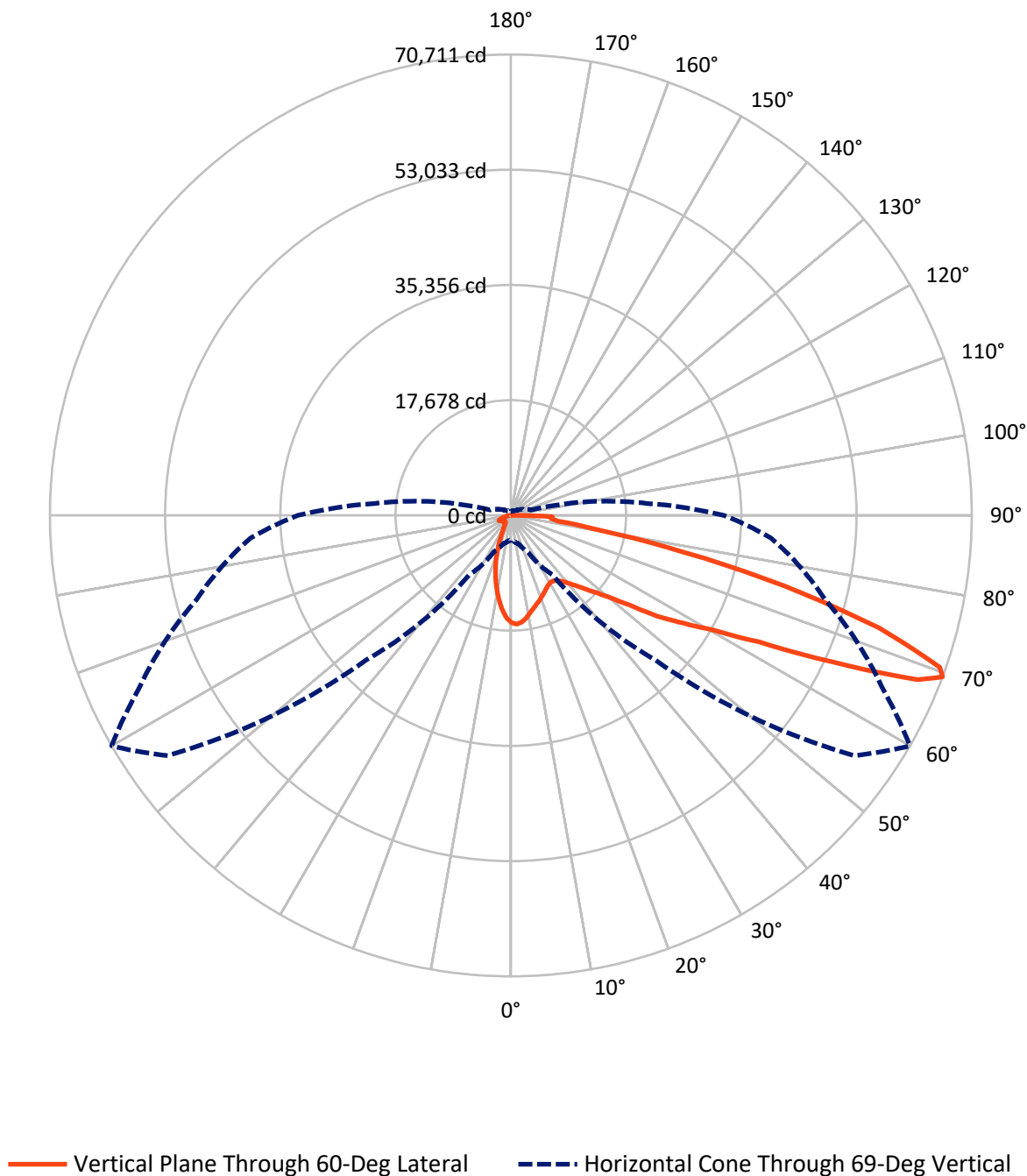


Based on 30 foot mounting height. Maximum calculated value = 18.3 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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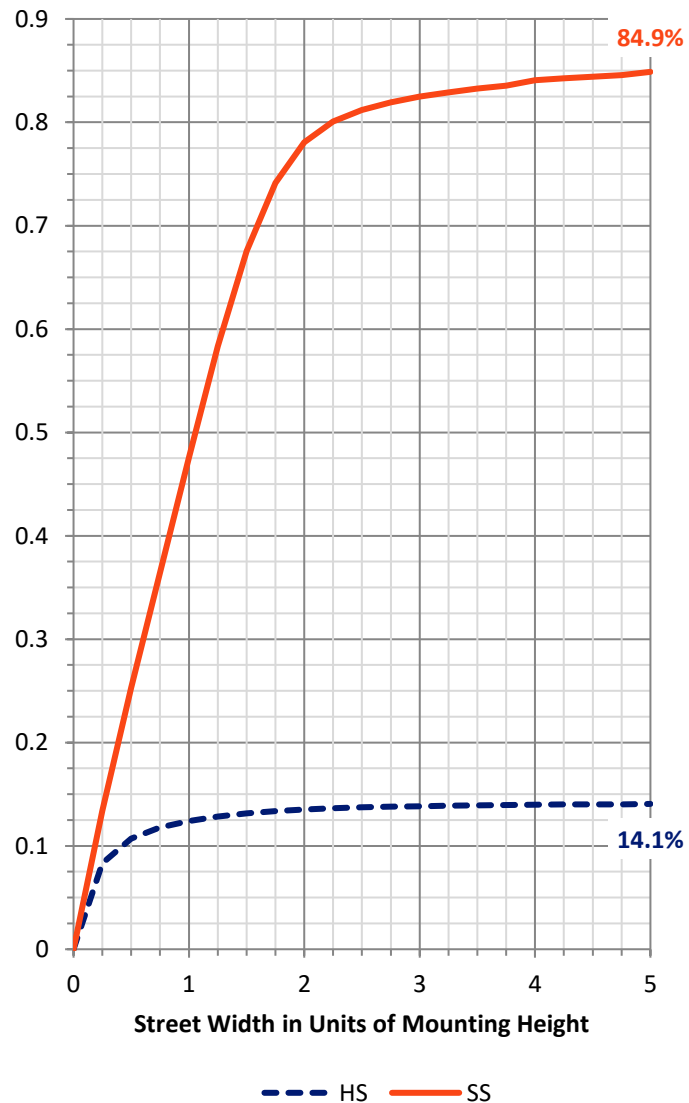
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9195.7	0.0	9195.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	55440.3	0.0	55440.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	64636.0	0.0	64636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1392.6	2.2
10°-20°	2967.1	4.6
20°-30°	3780.6	5.8
30°-40°	5197.3	8.0
40°-50°	8433.2	13.0
50°-60°	13524.6	20.9
60°-70°	18000.2	27.8
70°-80°	9718.7	15.0
80°-90°	1621.6	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°	64636.0	100.0
0°-180°	64636.0	100.0

Coefficient of Utilization



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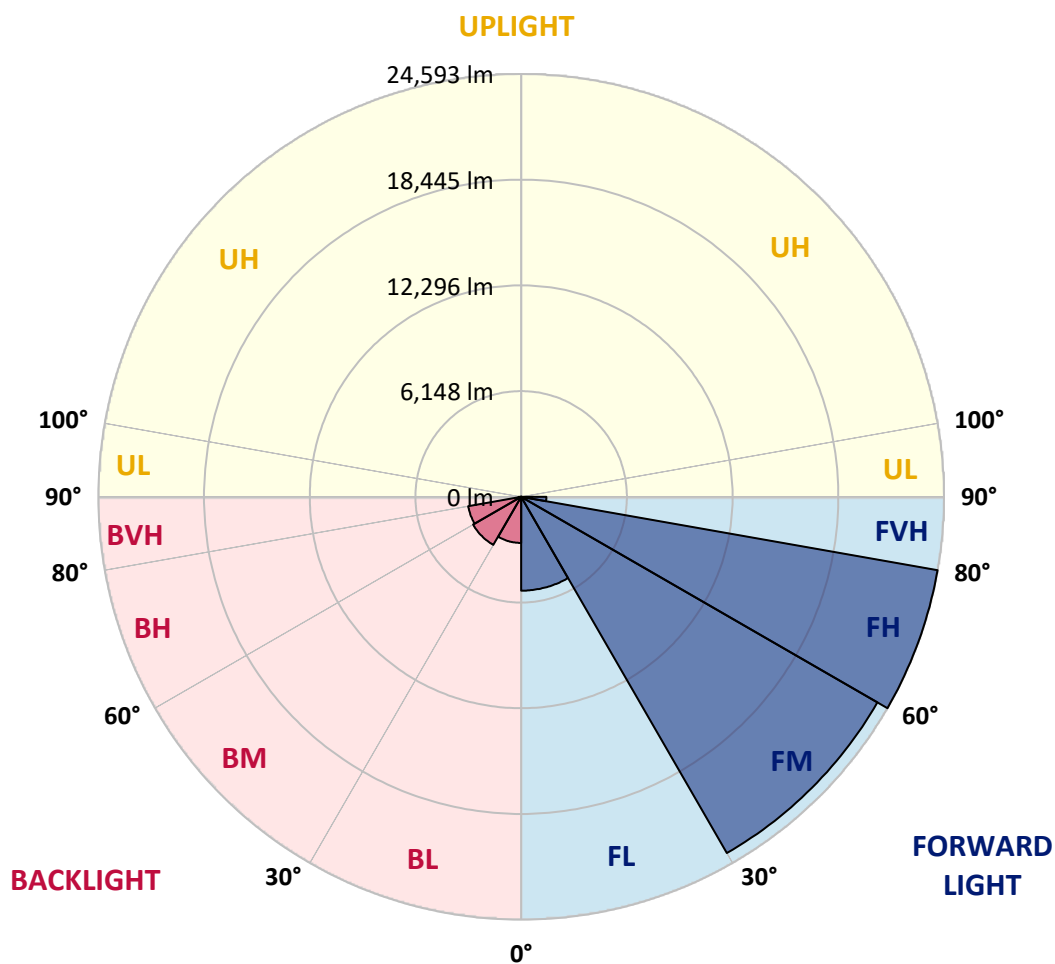
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5457.6	8.4			
FM	(30°-60°)	23924.5	37.0			
FH	(60°-80°)	24592.8	38.0			G5
FVH	(80°-90°)	1465.5	2.3			G5
BL	(0°-30°)	2682.7	4.2	B4/5000		
BM	(30°-60°)	3230.6	5.0	B3/5000		
BH	(60°-80°)	3126.2	4.8	B4/5000		G4/5000
BVH	(80°-90°)	156.2	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°	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2
2.5°	16807.4	16844.9	16829.3	16819.9	16848.0	16804.3	16713.8	16685.7	16642.0	16538.9	16364.1
5°	16176.7	16289.1	16282.9	16367.2	16507.7	16545.2	16504.6	16510.8	16429.6	16301.6	16011.3
7.5°	15087.0	15133.9	15158.9	15343.1	15599.1	15805.2	15980.0	16036.2	15998.8	15889.5	15514.8
10°	13963.0	14000.5	14059.8	14275.2	14600.0	14884.1	15215.1	15405.5	15486.7	15468.0	15049.6
12.5°	12998.2	13035.7	13113.7	13357.3	13744.4	14094.1	14575.0	14812.3	15005.9	15121.4	14671.8
15°	12133.3	12214.5	12289.4	12570.5	13004.5	13463.4	14006.7	14306.5	14606.2	14865.4	14337.7
17.5°	11458.9	11540.1	11583.8	11839.8	12301.9	12864.0	13500.9	13853.7	14228.4	14653.0	14006.7
20°	11068.6	11106.1	11087.4	11231.0	11646.3	12242.6	12998.2	13407.2	13860.0	14453.2	13675.8
22.5°	10959.3	10962.5	10893.8	10878.2	11146.7	11649.4	12461.2	12957.6	13513.4	14322.1	13391.6
25°	11224.7	11215.4	11028.0	10875.0	10903.1	11196.6	11942.9	12520.5	13223.0	14294.0	13173.1
27.5°	11814.9	11843.0	11565.1	11277.8	10993.7	10984.3	11549.5	12158.3	12985.7	14422.0	13079.4
30°	12642.3	12689.1	12392.5	12027.2	11493.3	11053.0	11396.5	11942.9	12839.0	14687.4	13063.8
32.5°	13547.7	13597.7	13372.9	12988.8	12289.4	11477.6	11502.6	11961.6	12832.7	15058.9	13169.9
35°	14512.5	14568.7	14453.2	14128.5	13351.0	12261.3	11908.5	12264.5	13035.7	15627.2	13454.1
37.5°	15589.7	15677.2	15708.4	15399.3	14568.7	13294.8	12573.6	12839.0	13494.7	16417.2	13975.5
40°	17141.5	17263.3	17253.9	16810.6	15964.4	14690.5	13600.8	13669.5	14209.7	17472.5	14809.2
42.5°	20114.0	20139.0	19361.5	18396.7	17500.6	16158.0	14812.3	14756.1	15196.3	18808.9	16036.2
45°	23895.1	23792.1	22062.3	20198.3	19105.5	17844.1	16389.1	16114.3	16448.4	20438.7	17572.4
47.5°	27033.0	26795.7	24610.1	22037.3	20804.0	19676.9	18240.6	17759.8	17944.0	22287.1	19558.2
50°	28122.7	27944.8	26133.8	23567.3	22412.0	21912.4	20519.9	19839.2	19889.2	24491.5	21884.3
52.5°	27888.6	27863.6	26655.2	24575.8	23917.0	24260.4	23748.4	22827.3	22340.2	26939.4	24394.7
55°	27335.9	27389.0	26951.9	25749.8	25637.4	26527.2	27966.6	27285.9	25771.6	29409.1	26989.3
57.5°	25415.7	25553.1	26514.7	27226.6	28406.9	29730.7	31363.7	31170.1	29465.3	32078.7	30074.2
60°	20476.2	20794.6	23373.7	26939.4	31257.5	35397.7	36128.4	35678.7	33274.6	35391.5	34148.8
62.5°	14347.1	14678.0	17744.1	23323.7	30789.2	41798.5	44646.0	42707.1	38744.9	40271.7	39422.4
65°	7680.9	7840.1	10181.9	16183.0	25993.3	43119.2	57094.7	54144.1	47406.2	46288.4	43934.2
67.5°	4237.0	4324.4	5220.5	8171.1	16648.2	37970.5	65025.4	67254.8	58231.3	50294.3	43113.0
69°	3831.1	3912.3	4499.3	6188.4	11140.4	31394.9	64251.1	70711.2	62977.2	49897.8	40078.1
70°	3746.8	3821.7	4349.4	5704.5	9017.3	25877.8	61656.4	69827.5	64107.5	48477.1	37430.4
72.5°	3372.1	3453.3	3965.3	5123.7	7705.9	12901.4	48839.3	59039.9	58203.2	42032.7	28391.2
75°	3144.2	3219.1	4087.1	5017.6	7378.0	8164.9	32197.4	43512.6	42785.1	29402.9	15308.7
77.5°	1345.7	1339.5	1895.2	4246.4	7487.3	7905.7	17300.8	27182.9	24800.6	12567.3	4396.2
80°	899.2	883.6	899.2	1248.9	6866.0	7949.4	9064.1	13797.5	10422.3	3203.5	2166.9
82.5°	774.3	761.8	789.9	761.8	2413.6	9073.5	7705.9	7337.5	4955.1	1820.3	1074.1
85°	521.4	499.6	680.7	683.8	1139.6	8061.8	8680.0	6197.8	4009.1	1080.3	530.8
87.5°	249.8	243.5	396.5	484.0	668.2	3275.3	9738.5	6350.8	4043.4	552.7	252.9
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°	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2	16470.2
2.5°	16311.0	16183.0	16058.1	15908.2	15752.1	15577.3	15489.8	15402.4	15380.5	15355.6	15268.1
5°	15861.4	15680.3	15368.1	15024.6	14662.4	14309.6	14041.1	13872.5	13744.4	13678.9	13563.4
7.5°	15280.6	15015.2	14468.8	13875.6	13266.7	12711.0	12230.1	11927.3	11640.0	11505.7	11352.8
10°	14728.0	14331.4	13482.2	12607.9	11733.7	10893.8	10103.8	9544.9	9048.5	8770.6	8573.9
12.5°	14253.4	13710.1	12533.0	11349.6	10150.7	8954.8	7771.5	6841.0	6063.5	5654.5	5445.3
15°	13791.3	13135.6	11630.6	10128.8	8589.5	6962.8	5407.9	4352.5	3709.3	3453.3	3365.9
17.5°	13372.9	12533.0	10725.2	8898.6	6978.4	5011.3	3634.4	3053.6	2807.0	2722.7	2694.6
20°	12920.2	11924.1	9785.3	7612.2	5298.6	3503.2	2838.2	2582.2	2482.2	2457.3	2444.8
22.5°	12483.0	11324.7	8886.1	6235.3	3806.1	2703.9	2438.5	2332.4	2316.8	2338.6	2338.6
25°	12111.5	10787.6	7915.1	4795.9	2794.5	2276.2	2182.5	2157.5	2216.8	2298.0	2313.6
27.5°	11833.6	10347.4	6881.6	3540.7	2226.2	1979.6	1976.4	2017.0	2163.8	2319.9	2351.1
30°	11643.1	9929.0	5776.3	2554.1	1867.1	1742.3	1792.2	1879.6	2095.1	2316.8	2376.1
32.5°	11546.3	9619.9	4624.2	1976.4	1598.6	1529.9	1614.2	1720.4	1932.7	2138.8	2216.8
35°	11621.3	9391.9	3537.6	1648.6	1411.3	1358.2	1445.6	1548.7	1673.6	1761.0	1820.3
37.5°	11902.3	9301.4	2669.6	1476.9	1283.3	1233.3	1302.0	1361.3	1411.3	1436.3	1464.4
40°	12508.0	9398.2	2138.8	1389.4	1211.5	1149.0	1177.1	1199.0	1230.2	1255.2	1267.7
42.5°	13401.0	9688.6	1917.1	1355.1	1174.0	1083.4	1077.2	1086.6	1127.2	1174.0	1183.4
45°	14649.9	10200.6	1901.5	1376.9	1155.3	1030.4	1002.3	1014.8	1077.2	1149.0	1161.5
47.5°	16245.4	10981.2	2026.4	1442.5	1170.9	1002.3	955.4	971.0	1049.1	1145.9	1161.5
50°	18178.1	12070.9	2235.6	1539.3	1239.6	1008.5	939.8	949.2	1030.4	1136.5	1152.1
52.5°	20460.6	13616.4	2463.5	1633.0	1311.4	1049.1	952.3	930.5	1005.4	1099.1	1117.8
55°	22999.0	15599.1	2697.7	1717.3	1348.8	1099.1	977.3	905.5	958.6	1036.6	1052.2
57.5°	26115.1	18371.7	3103.6	1798.5	1373.8	1133.4	1002.3	880.5	899.2	955.4	967.9
60°	30333.3	22293.4	3818.6	1932.7	1430.0	1145.9	999.1	858.6	839.9	871.1	877.4
62.5°	35388.4	26552.2	4415.0	2101.3	1523.7	1155.3	980.4	843.0	789.9	789.9	796.2
65°	38388.9	27691.8	4084.0	2241.8	1601.7	1145.9	958.6	827.4	752.5	718.1	721.3
67.5°	35844.2	24354.1	3500.1	2269.9	1598.6	1102.2	924.2	799.3	715.0	661.9	658.8
69°	32656.3	21013.2	3237.8	2195.0	1523.7	1046.0	880.5	768.1	686.9	630.7	627.6
70°	30086.7	18974.3	3066.1	2113.8	1442.5	1005.4	846.1	740.0	665.1	612.0	605.7
72.5°	21875.0	12433.1	2619.6	1817.2	1189.6	843.0	730.6	649.4	593.2	562.0	555.8
75°	10931.2	5929.3	2126.3	1473.7	911.7	674.4	599.5	543.3	515.2	508.9	505.8
77.5°	3590.7	2716.4	1520.6	1099.1	677.5	527.7	484.0	443.4	437.1	455.9	449.6
80°	1973.3	1579.9	964.8	727.5	462.1	387.2	380.9	359.1	368.4	399.7	393.4
82.5°	1005.4	821.2	596.4	437.1	312.2	277.9	302.9	290.4	302.9	331.0	327.8
85°	496.4	449.6	377.8	265.4	206.1	178.0	215.4	224.8	231.1	252.9	252.9
87.5°	287.3	265.4	199.8	124.9	103.0	93.7	124.9	121.8	143.6	156.1	153.0
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)