

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: P192838

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192838
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA 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: 55821.7 lumens
Efficiency: N/A
Efficacy: 100.0 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): 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

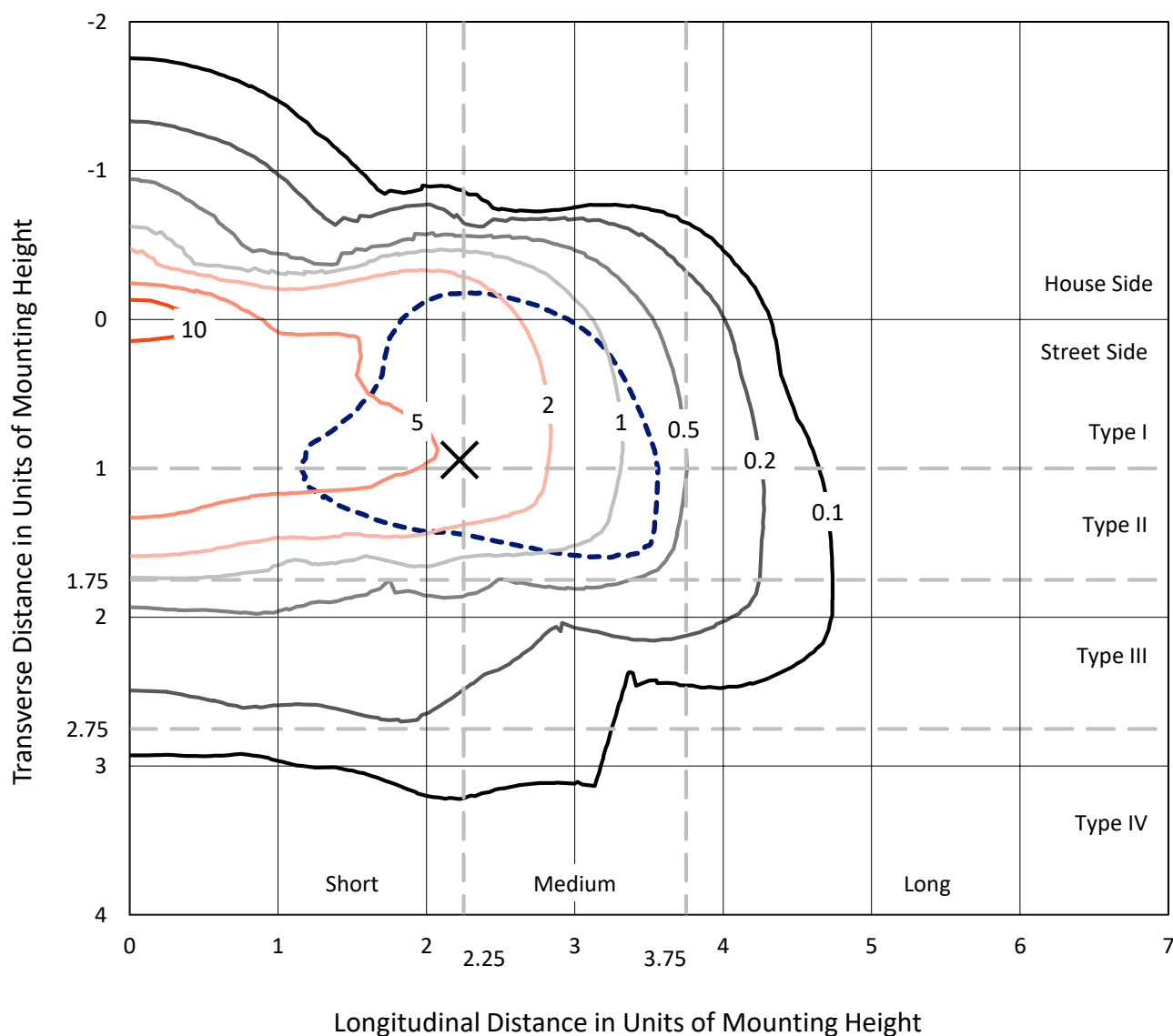


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

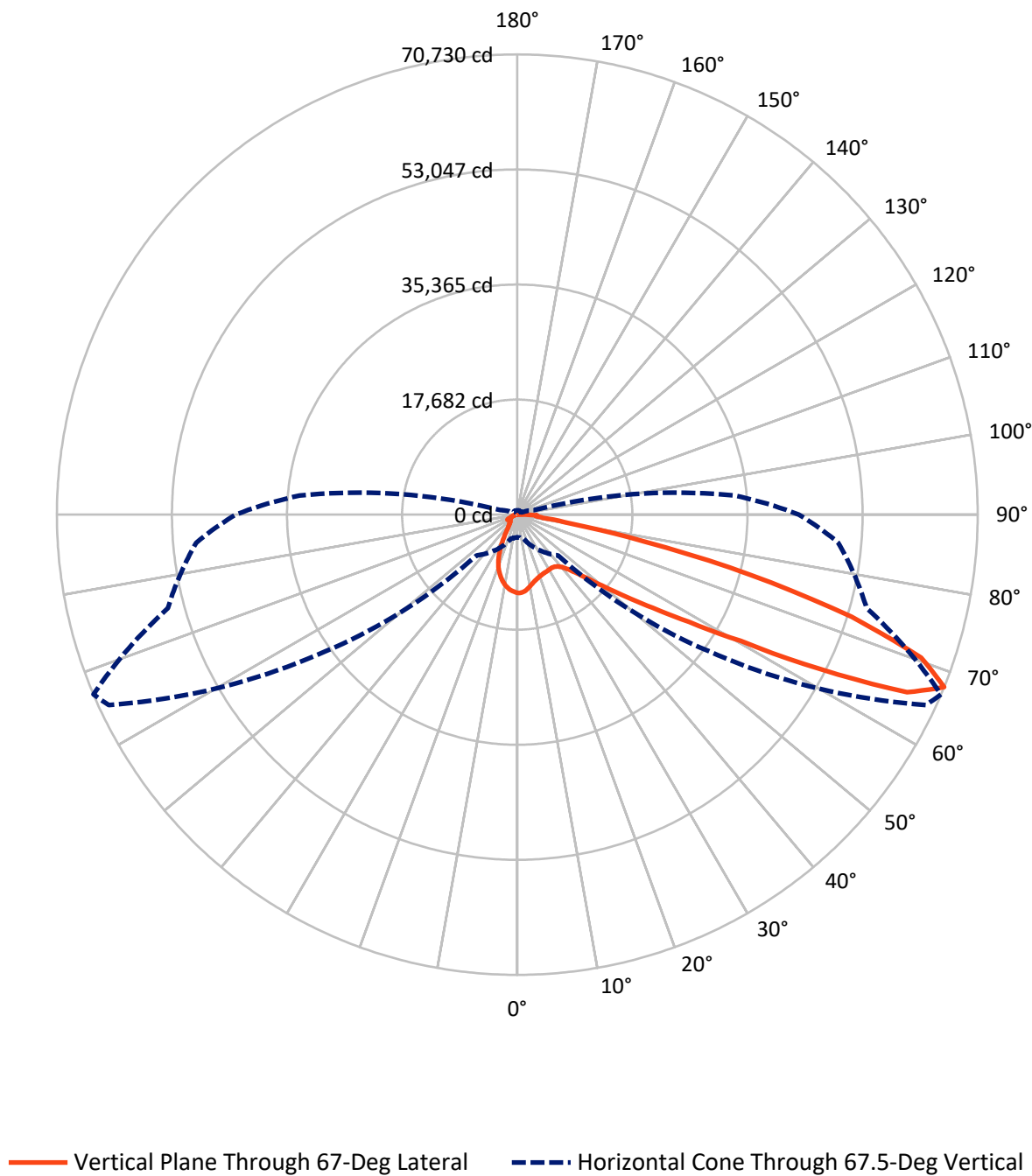


Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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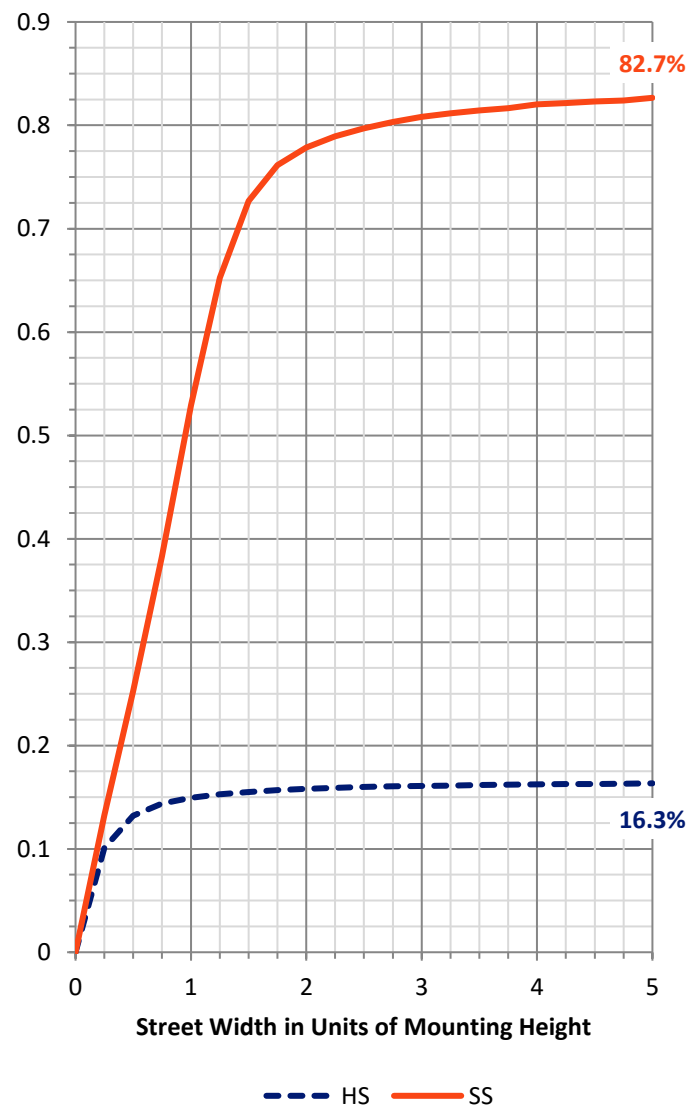
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9249.0	0.0	9249.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	46572.6	0.0	46572.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	55821.7	0.0	55821.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.3	1.8
10°-20°	2376.9	4.3
20°-30°	3221.9	5.8
30°-40°	4580.3	8.2
40°-50°	7663.0	13.7
50°-60°	12122.8	21.7
60°-70°	15443.2	27.7
70°-80°	8089.1	14.5
80°-90°	1297.4	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°	55821.7	100.0
0°-180°	55821.7	100.0

Coefficient of Utilization



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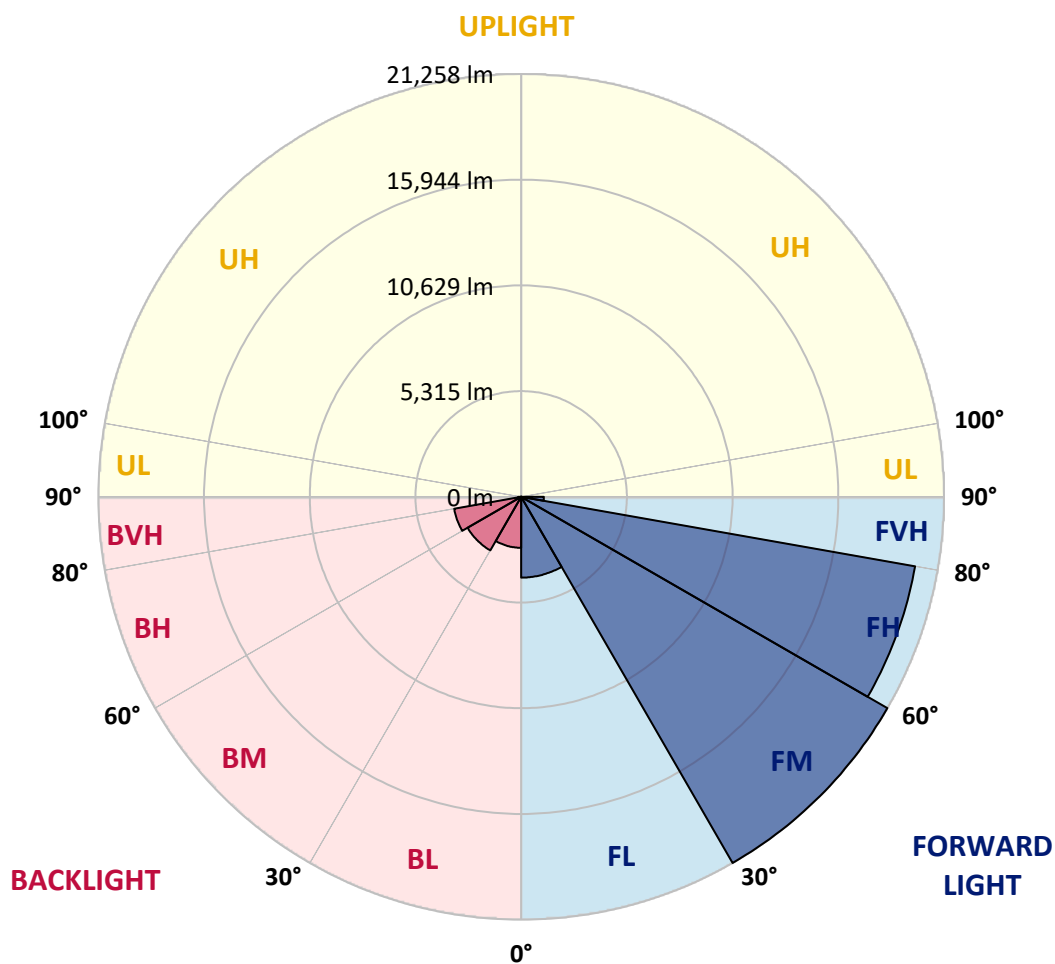
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4062.5	7.3			
FM	(30°-60°)	21258.0	38.1			
FH	(60°-80°)	20111.4	36.0			G5
FVH	(80°-90°)	1140.8	2.0			G5
BL	(0°-30°)	2563.6	4.6	B4/5000		
BM	(30°-60°)	3108.0	5.6	B3/5000		
BH	(60°-80°)	3420.9	6.1	B4/5000		G4/5000
BVH	(80°-90°)	156.6	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°	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6
2.5°	11545.1	11564.3	11624.9	11663.4	11836.9	11911.2	11963.6	12015.8	12024.1	12048.9	12024.1
5°	10333.8	10375.1	10488.1	10614.6	10950.5	11214.8	11492.8	11781.9	11834.1	12021.4	12073.5
7.5°	9395.2	9384.2	9477.8	9629.1	9973.3	10339.4	10826.6	11402.0	11514.9	11936.0	12139.7
10°	8709.7	8701.5	8800.7	8957.5	9285.1	9632.0	10182.5	10969.7	11129.4	11801.1	12203.0
12.5°	8203.1	8206.0	8305.2	8478.5	8811.6	9161.2	9720.0	10551.3	10755.1	11644.2	12269.0
15°	7867.4	7889.4	7969.3	8153.7	8478.5	8828.1	9375.9	10237.5	10466.1	11520.3	12343.3
17.5°	7754.5	7790.3	7817.8	7952.8	8230.7	8580.3	9117.1	10006.3	10248.5	11435.0	12409.4
20°	7859.1	7900.4	7848.1	7895.0	8071.1	8379.4	8913.5	9824.6	10072.4	11338.6	12417.8
22.5°	8307.8	8346.5	8192.3	8057.4	8046.3	8233.6	8745.5	9681.5	9937.4	11267.1	12420.5
25°	9097.9	9122.7	8863.8	8550.1	8244.4	8181.3	8627.1	9582.4	9854.8	11203.8	12368.1
27.5°	10066.8	10086.2	9788.9	9326.4	8712.6	8305.2	8585.9	9524.5	9808.1	11148.7	12280.0
30°	11245.1	11335.8	10936.8	10353.2	9458.5	8671.3	8668.4	9494.3	9755.8	11055.1	12106.7
32.5°	12450.7	12489.3	12214.0	11622.1	10463.2	9315.3	8899.7	9516.3	9742.0	10942.2	11886.5
35°	13673.0	13722.5	13543.6	13067.4	11836.9	10259.6	9351.2	9645.7	9827.4	10903.7	11732.3
37.5°	15255.9	15321.9	15074.2	14523.7	13507.8	11539.6	10102.6	9970.6	10088.9	11013.8	11685.5
40°	17758.1	17727.8	17003.8	16183.5	15335.6	13177.4	11176.2	10521.1	10589.9	11369.0	11828.6
42.5°	20670.5	20596.1	19349.2	18060.9	17345.1	15159.5	12596.6	11476.3	11462.5	12068.1	12332.4
45°	22993.8	22933.3	21810.2	20221.8	19649.1	17416.7	14432.7	12899.4	12797.6	13177.4	13262.9
47.5°	24251.8	24254.6	23607.7	22311.2	22297.4	20285.1	16791.8	14958.5	14782.3	14961.3	14870.4
50°	23811.4	23869.3	23800.4	23387.5	24714.3	24045.4	19872.2	17829.7	17474.6	17650.8	17301.1
52.5°	21680.8	21755.0	22162.4	22795.7	25730.1	28590.2	24397.7	21397.3	20984.4	20921.0	20532.9
55°	17904.0	17994.8	18826.1	20546.6	24885.0	31643.0	31538.4	25944.8	25286.9	24689.6	24524.4
57.5°	12340.7	12492.0	13829.9	16384.4	22151.5	32565.2	40041.7	32427.6	31089.7	29003.1	29041.6
60°	6956.2	7132.5	8709.7	11030.4	16634.9	31563.3	46510.7	42246.7	39422.4	34054.5	34340.7
62.5°	4423.7	4613.6	5811.1	7663.7	9981.5	26167.8	49161.6	55897.7	52310.8	40281.1	40562.0
65°	3581.3	3663.9	4228.3	6325.9	7248.0	15765.1	47149.3	67142.6	65804.8	48184.4	46874.1
67.5°	3496.0	3523.5	3815.4	5310.1	6950.7	8861.2	37608.2	69245.8	70729.5	55564.6	49502.9
70°	3454.7	3551.0	4299.8	5067.9	6656.2	7473.8	22600.2	63481.5	65824.2	57494.2	46004.1
72.5°	1676.5	1670.9	2163.7	4583.3	7498.6	7751.8	11611.2	51363.9	53714.7	49811.3	37803.7
75°	1351.6	1235.9	1181.0	1679.2	7209.5	8005.0	7399.5	35342.7	37044.0	33396.5	23238.8
77.5°	1282.8	1145.1	1048.8	1051.5	3047.3	8489.6	6268.1	19561.1	20056.6	15085.1	6367.2
80°	1062.5	936.0	867.1	977.3	1475.4	8084.8	6777.4	8852.8	8123.4	3705.2	2119.6
82.5°	737.7	671.7	652.4	820.3	1181.0	5761.6	7881.2	4756.8	3988.7	1855.3	1307.7
85°	470.7	401.8	446.0	597.3	919.4	2659.2	8117.9	3707.9	2948.3	1178.2	737.7
87.5°	217.4	176.1	220.2	330.3	600.1	916.6	7724.3	4165.0	3036.4	622.1	465.2
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°	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6	12040.6
2.5°	12046.1	11993.8	11952.5	11875.4	11790.0	11707.4	11633.2	11539.6	11512.1	11487.3	11525.9
5°	12084.6	12032.2	11881.0	11644.2	11382.6	11137.7	10892.7	10683.5	10554.1	10482.6	10523.9
7.5°	12142.4	12068.1	11754.3	11319.4	10848.7	10419.2	9976.0	9621.0	9359.3	9235.5	9271.3
10°	12194.8	12051.7	11539.6	10887.1	10199.1	9560.4	8861.2	8283.1	7853.7	7627.9	7683.0
12.5°	12216.9	11988.3	11239.5	10347.6	9403.4	8467.5	7438.0	6573.6	5957.1	5731.3	5684.4
15°	12238.7	11916.7	10909.2	9733.8	8442.7	7118.7	5676.2	4641.2	4129.1	4016.3	3991.5
17.5°	12244.2	11792.9	10534.8	9067.7	7316.9	5513.8	3881.4	3223.4	3226.2	3407.9	3429.9
20°	12186.4	11608.4	10080.6	8239.0	5968.0	3812.6	2664.8	2551.9	2967.5	3421.7	3476.7
22.5°	12054.3	11363.4	9565.8	7272.9	4423.7	2510.6	2061.8	2185.7	2722.5	3278.6	3341.8
25°	11886.5	11066.1	8957.5	6152.4	2928.9	1794.8	1728.7	1880.2	2243.5	2615.1	2650.9
27.5°	11658.0	10713.8	8274.9	4869.6	1902.2	1478.3	1522.3	1624.1	1772.7	1937.9	1954.4
30°	11363.4	10292.6	7545.3	3551.0	1437.0	1329.5	1392.9	1447.9	1511.3	1604.9	1613.1
32.5°	11024.8	9888.0	6796.6	2452.8	1274.5	1252.5	1302.1	1329.5	1379.2	1437.0	1442.4
35°	10741.3	9502.5	6020.3	1734.3	1205.6	1194.8	1227.7	1238.8	1285.6	1348.8	1354.4
37.5°	10578.9	9188.7	5219.2	1398.4	1158.9	1142.5	1161.7	1161.7	1227.7	1321.4	1335.0
40°	10589.9	9015.3	4418.2	1263.5	1120.4	1098.4	1101.2	1101.2	1186.4	1288.2	1296.6
42.5°	10890.0	9059.3	3707.9	1211.2	1090.1	1065.3	1051.5	1059.9	1131.4	1197.5	1203.0
45°	11594.6	9370.4	3041.8	1178.2	1059.9	1051.5	1021.2	1018.6	1046.0	1076.3	1076.3
47.5°	12750.8	9984.3	2590.3	1156.2	1035.0	1032.3	996.6	960.7	957.9	969.0	969.0
50°	14630.9	11041.3	2287.6	1131.4	1018.6	996.6	955.3	900.2	880.8	889.2	889.2
52.5°	17449.8	12927.0	2172.0	1098.4	982.8	947.0	900.2	845.1	828.6	831.4	831.4
55°	21146.7	15822.9	2155.4	1059.9	944.2	886.4	847.9	806.6	787.3	792.7	792.7
57.5°	25664.0	19828.2	2449.9	999.2	891.9	825.8	803.8	776.3	762.5	770.9	768.0
60°	31155.9	25069.4	3633.6	936.0	839.5	770.9	770.9	748.8	737.7	746.0	743.3
62.5°	37481.6	31089.7	5109.2	889.2	784.6	726.7	737.7	726.7	715.7	721.2	718.5
65°	43091.8	35012.4	4784.4	853.4	729.6	685.5	704.7	699.1	690.9	696.4	693.7
67.5°	43254.2	33559.0	2686.6	814.8	677.2	644.2	671.7	668.8	663.4	668.8	666.2
70°	38602.1	28336.9	1514.0	743.3	622.1	594.6	633.1	630.4	624.9	635.9	633.1
72.5°	30927.4	20563.1	1106.6	655.1	567.0	542.3	586.2	583.6	583.6	600.1	591.8
75°	17796.5	10581.6	883.7	561.6	509.2	490.0	528.5	531.3	536.8	558.9	542.3
77.5°	5073.4	3297.8	721.2	476.3	437.7	429.4	467.9	473.5	476.3	501.0	479.0
80°	1885.6	1519.6	594.6	399.2	357.9	360.7	396.4	404.7	407.4	432.2	404.7
82.5°	1203.0	1002.0	481.8	308.3	280.8	278.1	322.1	333.1	333.1	335.9	319.4
85°	702.0	600.1	363.4	223.0	198.2	189.9	239.5	258.7	250.5	245.0	234.1
87.5°	470.7	412.9	223.0	123.9	107.4	101.8	140.4	154.2	148.7	140.4	132.1
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)