

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: P192908

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192908
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-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA 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: 46041.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

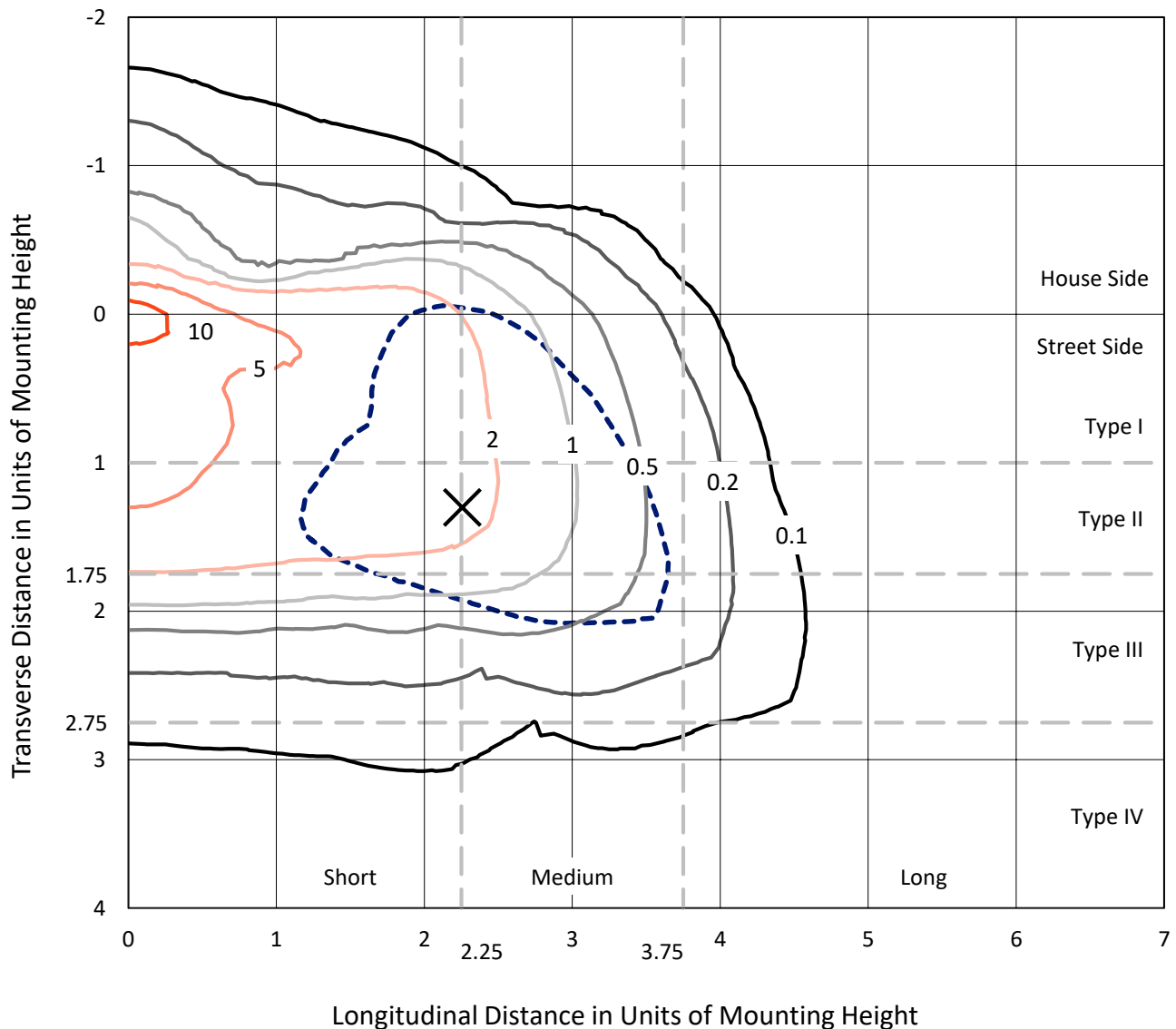


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

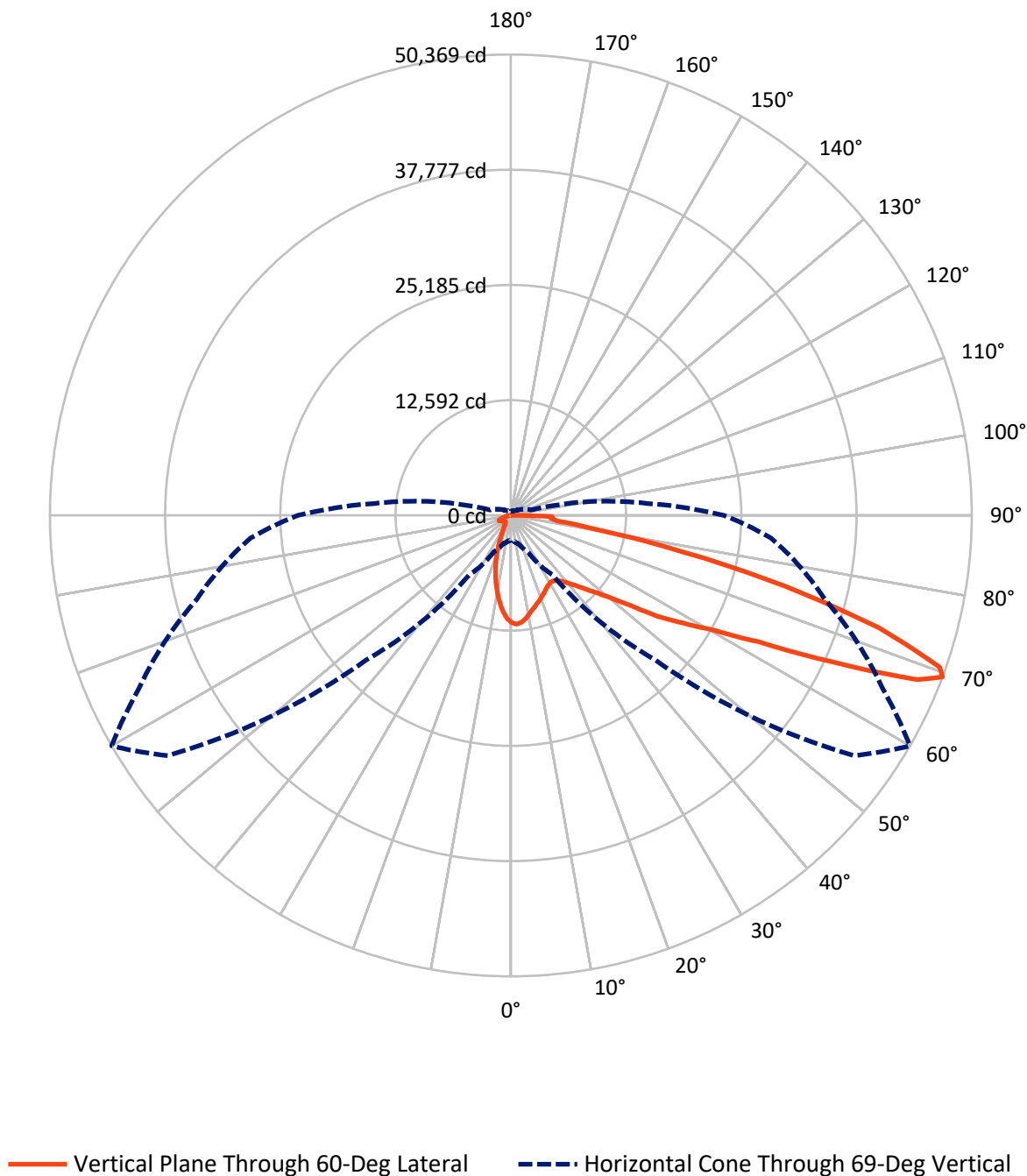


Based on 30 foot mounting height. Maximum calculated value = 13 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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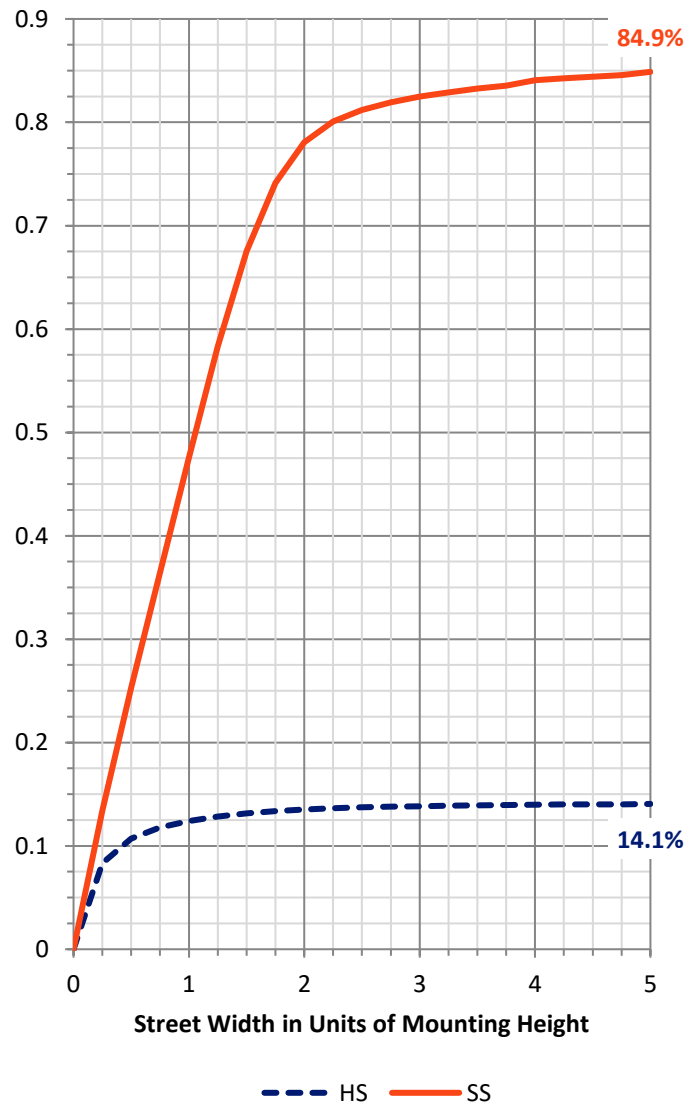
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6550.3	0.0	6550.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	39491.5	0.0	39491.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	46041.8	0.0	46041.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.0	2.2
10°-20°	2113.5	4.6
20°-30°	2693.0	5.8
30°-40°	3702.2	8.0
40°-50°	6007.2	13.0
50°-60°	9633.9	20.9
60°-70°	12822.0	27.8
70°-80°	6922.9	15.0
80°-90°	1155.1	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°	46041.8	100.0
0°-180°	46041.8	100.0

Coefficient of Utilization



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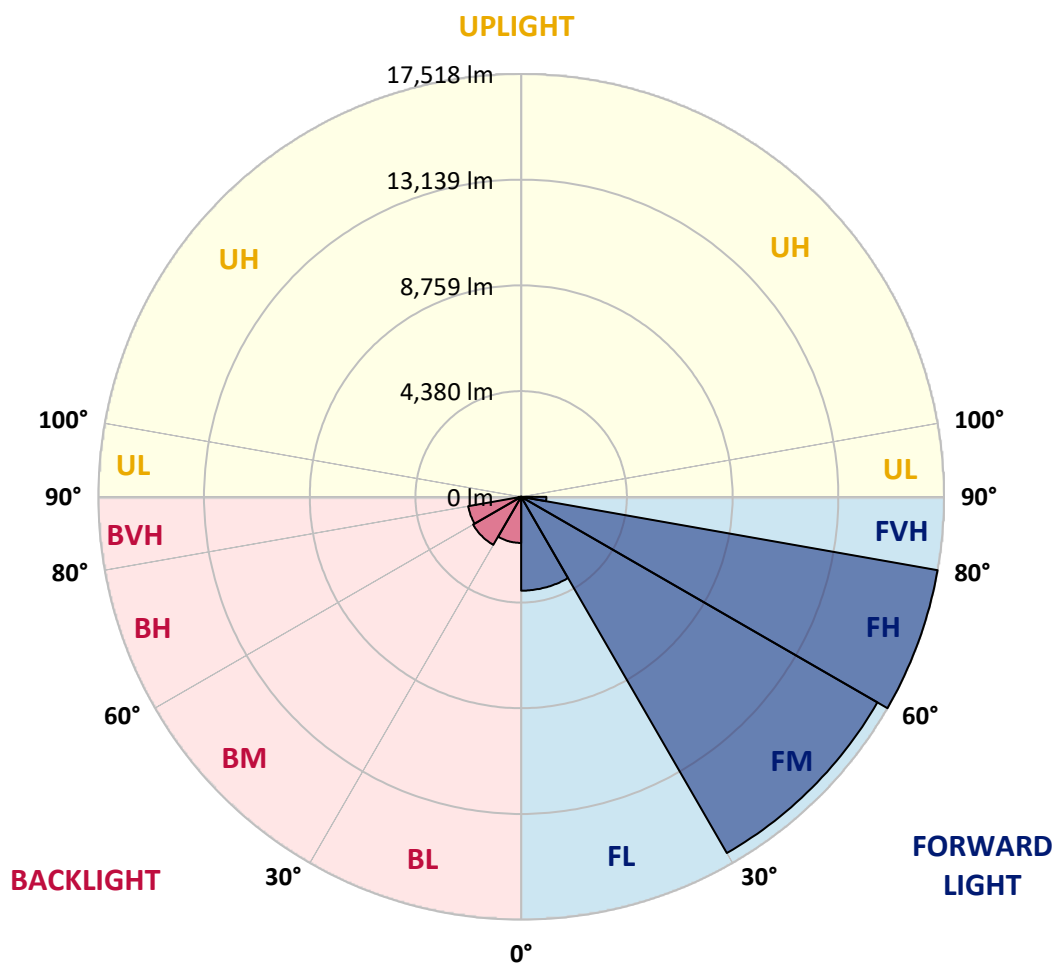
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3887.6	8.4			
FM	(30°-60°)	17042.0	37.0			
FH	(60°-80°)	17518.0	38.0			G5
FVH	(80°-90°)	1043.9	2.3			G5
BL	(0°-30°)	1910.9	4.2	B3/2500		
BM	(30°-60°)	2301.2	5.0	B2/2500		
BH	(60°-80°)	2226.9	4.8	B3/2500		G3/2500
BVH	(80°-90°)	111.2	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1
2.5°	11972.4	11999.1	11987.9	11981.3	12001.2	11970.1	11905.7	11885.7	11854.5	11781.1	11656.6
5°	11523.1	11603.2	11598.8	11658.7	11758.8	11785.6	11756.7	11761.1	11703.2	11612.1	11405.2
7.5°	10746.8	10780.3	10798.1	10929.3	11111.6	11258.4	11382.9	11423.0	11396.3	11318.5	11051.6
10°	9946.2	9972.8	10015.1	10168.6	10400.0	10602.3	10838.1	10973.8	11031.6	11018.2	10720.2
12.5°	9258.9	9285.6	9341.2	9514.8	9790.5	10039.7	10382.2	10551.1	10689.1	10771.4	10451.0
15°	8642.9	8700.8	8754.1	8954.3	9263.4	9590.3	9977.3	10190.8	10404.3	10589.0	10213.1
17.5°	8162.4	8220.3	8251.5	8433.8	8763.0	9163.3	9617.0	9868.4	10135.2	10437.7	9977.3
20°	7884.4	7911.1	7897.8	8000.1	8295.9	8720.7	9258.9	9550.4	9872.7	10295.4	9741.5
22.5°	7806.6	7808.9	7759.9	7748.7	7940.1	8298.1	8876.4	9230.0	9626.0	10202.0	9539.2
25°	7995.7	7989.0	7855.5	7746.6	7766.5	7975.6	8507.3	8918.7	9419.1	10182.0	9383.5
27.5°	8416.0	8436.0	8238.0	8033.5	7831.0	7824.4	8227.0	8660.7	9250.1	10273.1	9316.7
30°	9005.3	9038.8	8827.5	8567.2	8186.9	7873.3	8118.0	8507.3	9145.5	10462.2	9305.6
32.5°	9650.5	9686.0	9525.9	9252.3	8754.1	8175.9	8193.6	8520.6	9141.0	10726.8	9381.3
35°	10337.7	10377.7	10295.4	10064.1	9510.3	8734.0	8482.8	8736.3	9285.6	11131.7	9583.6
37.5°	11105.0	11167.3	11189.5	10969.3	10377.7	9470.3	8956.5	9145.5	9612.6	11694.3	9955.0
40°	12210.4	12297.1	12290.5	11974.6	11371.8	10464.5	9688.2	9737.1	10121.9	12446.0	10549.0
42.5°	14327.7	14345.5	13791.7	13104.4	12466.2	11509.7	10551.1	10511.2	10824.8	13398.0	11423.0
45°	17021.1	16947.6	15715.6	14387.7	13609.4	12710.7	11674.4	11478.7	11716.6	14559.1	12517.3
47.5°	19256.3	19087.3	17530.4	15697.8	14819.3	14016.4	12993.2	12650.7	12781.9	15875.7	13931.7
50°	20032.5	19905.7	18615.8	16787.5	15964.6	15608.8	14616.8	14131.9	14167.5	17445.9	15588.8
52.5°	19865.7	19847.9	18987.2	17505.9	17036.7	17281.3	16916.5	16260.4	15913.5	19189.6	17376.9
55°	19472.0	19509.9	19198.5	18342.2	18262.1	18896.1	19921.4	19436.4	18357.7	20948.9	19225.1
57.5°	18104.3	18202.0	18887.1	19394.2	20235.0	21177.9	22341.2	22203.2	20988.9	22850.5	21422.6
60°	14585.7	14812.5	16649.7	19189.6	22265.5	25214.8	25735.2	25414.9	23702.2	25210.3	24325.1
62.5°	10219.8	10455.6	12639.5	16614.1	21931.9	29774.1	31802.5	30421.4	27598.9	28686.6	28081.6
65°	5471.2	5584.7	7252.8	11527.5	18515.7	30715.0	40670.0	38568.2	33768.6	32972.4	31295.4
67.5°	3018.1	3080.3	3718.7	5820.5	11858.9	27047.3	46319.3	47907.2	41479.6	35825.9	30710.5
69°	2729.0	2786.7	3204.9	4408.2	7935.6	22363.4	45767.7	50369.4	44860.2	35543.4	28548.7
70°	2668.8	2722.3	3098.1	4063.5	6423.3	18433.3	43919.4	49740.0	45665.4	34531.5	26662.5
72.5°	2402.1	2459.9	2824.6	3649.8	5489.0	9190.1	34789.5	42055.6	41459.6	29941.0	20223.8
75°	2239.7	2293.1	2911.3	3574.1	5255.6	5816.1	22934.9	30995.1	30476.9	20944.5	10904.8
77.5°	958.6	954.2	1350.0	3024.8	5333.4	5631.4	12323.8	19363.0	17666.1	8952.0	3131.6
80°	640.6	629.5	640.6	889.6	4890.8	5662.6	6456.5	9828.3	7424.0	2281.9	1543.5
82.5°	551.5	542.7	562.6	542.7	1719.2	6463.2	5489.0	5226.6	3529.6	1296.7	765.2
85°	371.4	355.8	484.9	487.1	811.8	5742.6	6183.0	4414.8	2855.7	769.5	378.1
87.5°	177.9	173.5	282.4	344.7	476.0	2333.1	6937.0	4523.9	2880.2	393.7	180.2
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°	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1	11732.1
2.5°	11618.7	11527.5	11438.6	11331.9	11220.6	11096.1	11033.8	10971.5	10956.0	10938.2	10875.8
5°	11298.5	11169.5	10947.0	10702.4	10444.4	10193.2	10001.8	9881.7	9790.5	9743.8	9661.5
7.5°	10884.7	10695.7	10306.5	9883.9	9450.3	9054.4	8711.8	8496.1	8291.4	8195.9	8086.9
10°	10491.1	10208.6	9603.7	8980.9	8358.3	7759.9	7197.2	6799.1	6445.4	6247.6	6107.4
12.5°	10153.0	9766.0	8927.6	8084.6	7230.6	6378.8	5535.8	4873.1	4319.2	4027.9	3878.8
15°	9823.8	9356.9	8284.8	7215.1	6118.5	4959.8	3852.2	3100.4	2642.2	2459.9	2397.5
17.5°	9525.9	8927.6	7639.9	6338.6	4970.9	3569.7	2588.9	2175.2	1999.5	1939.5	1919.3
20°	9203.4	8493.9	6970.3	5422.3	3774.4	2495.5	2021.8	1839.4	1768.2	1750.4	1741.5
22.5°	8891.9	8066.8	6329.8	4441.5	2711.2	1926.0	1737.0	1661.4	1650.3	1665.8	1665.8
25°	8627.3	7684.3	5638.1	3416.2	1990.6	1621.4	1554.6	1536.8	1579.2	1636.9	1648.0
27.5°	8429.4	7370.7	4901.9	2522.1	1585.8	1410.1	1407.8	1436.8	1541.3	1652.5	1674.7
30°	8293.7	7072.7	4114.6	1819.2	1330.0	1241.0	1276.5	1338.9	1492.4	1650.3	1692.5
32.5°	8224.7	6852.5	3293.9	1407.8	1138.7	1089.9	1149.9	1225.5	1376.7	1523.5	1579.2
35°	8278.1	6690.2	2519.9	1174.3	1005.3	967.5	1029.8	1103.2	1192.1	1254.4	1296.7
37.5°	8478.3	6625.6	1901.6	1051.9	914.1	878.6	927.5	969.6	1005.3	1023.1	1043.1
40°	8909.8	6694.6	1523.5	989.8	862.9	818.5	838.4	854.1	876.3	894.1	903.0
42.5°	9545.9	6901.4	1365.6	965.3	836.3	771.8	767.3	774.0	802.9	836.3	842.9
45°	10435.5	7266.2	1354.5	980.8	822.9	734.0	713.9	722.9	767.3	818.5	827.4
47.5°	11571.9	7822.2	1443.5	1027.6	834.0	713.9	680.5	691.7	747.4	816.2	827.4
50°	12948.8	8598.3	1592.5	1096.5	883.0	718.4	669.4	676.1	734.0	809.6	820.6
52.5°	14574.5	9699.4	1754.8	1163.2	934.1	747.4	678.4	662.7	716.2	782.9	796.3
55°	16382.8	11111.6	1921.7	1223.2	960.8	782.9	696.2	644.9	682.8	738.4	749.5
57.5°	18602.5	13086.6	2210.8	1281.1	978.6	807.3	713.9	627.1	640.6	680.5	689.4
60°	21607.2	15880.1	2720.1	1376.7	1018.7	816.2	711.8	611.7	598.3	620.5	625.0
62.5°	25208.1	18913.8	3144.9	1496.9	1085.4	822.9	698.3	600.5	562.6	562.6	567.2
65°	27345.4	19725.5	2909.1	1597.0	1141.0	816.2	682.8	589.4	536.0	511.6	513.7
67.5°	25532.8	17348.0	2493.2	1616.9	1138.7	785.1	658.3	569.4	509.3	471.6	469.3
69°	23262.0	14968.2	2306.4	1563.5	1085.4	745.0	627.1	547.2	489.3	449.3	447.1
70°	21431.5	13515.9	2184.1	1505.7	1027.6	716.2	602.8	527.0	473.7	436.0	431.5
72.5°	15582.1	8856.4	1866.0	1294.4	847.5	600.5	520.4	462.6	422.7	400.3	395.8
75°	7786.6	4223.5	1514.7	1049.8	649.4	480.4	426.9	387.0	367.0	362.5	360.3
77.5°	2557.8	1935.0	1083.1	782.9	482.6	375.9	344.7	315.9	311.4	324.7	320.2
80°	1405.6	1125.4	687.2	518.2	329.2	275.8	271.3	255.7	262.4	284.7	280.2
82.5°	716.2	585.0	424.8	311.4	222.5	198.0	215.8	206.8	215.8	235.8	233.5
85°	353.7	320.2	269.1	189.0	146.9	126.7	153.5	160.2	164.6	180.2	180.2
87.5°	204.7	189.0	142.4	88.9	73.4	66.7	88.9	86.8	102.2	111.2	108.9
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)