

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: P192915

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192915
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-07-LED-E1-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 40723.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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

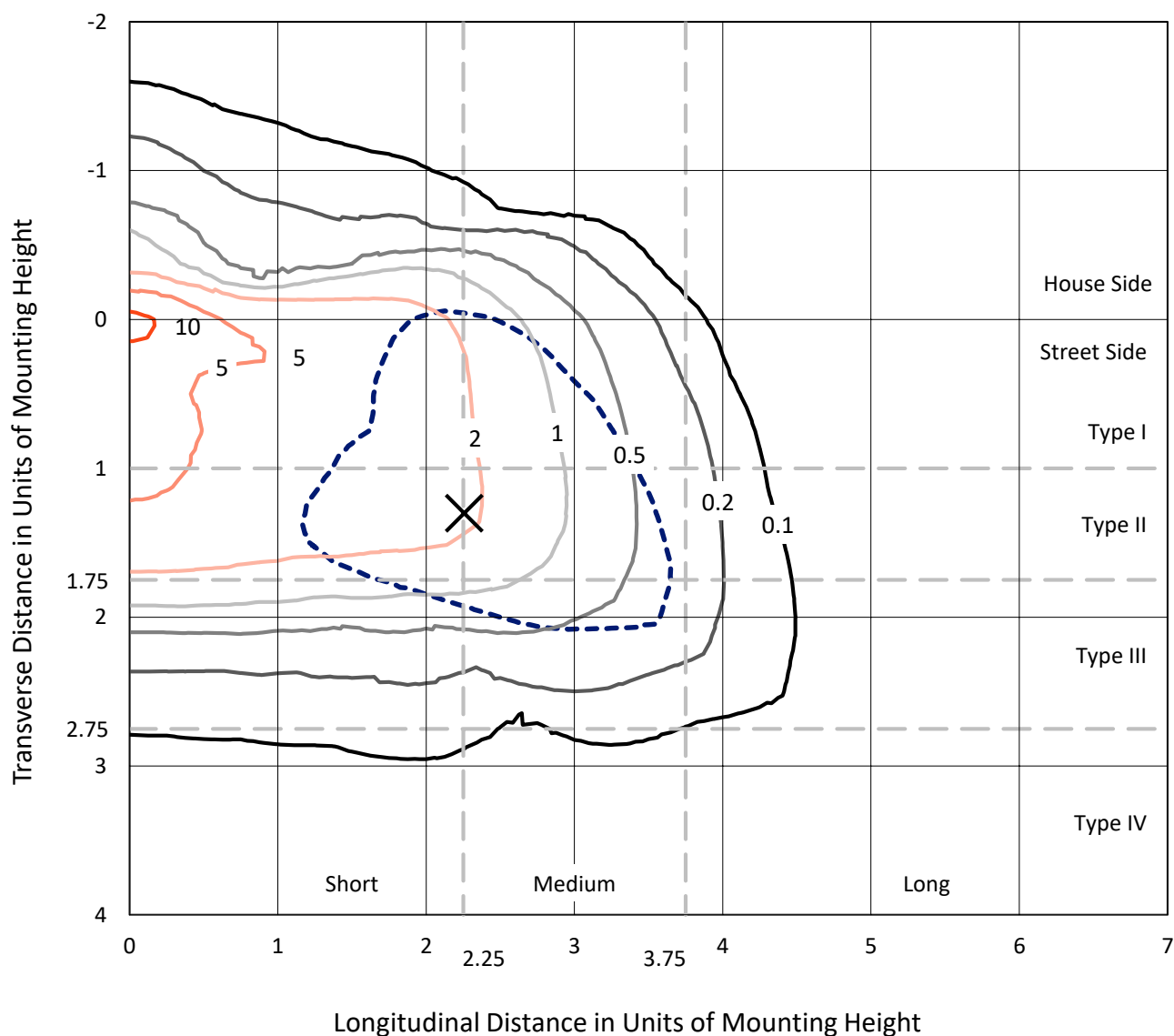


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

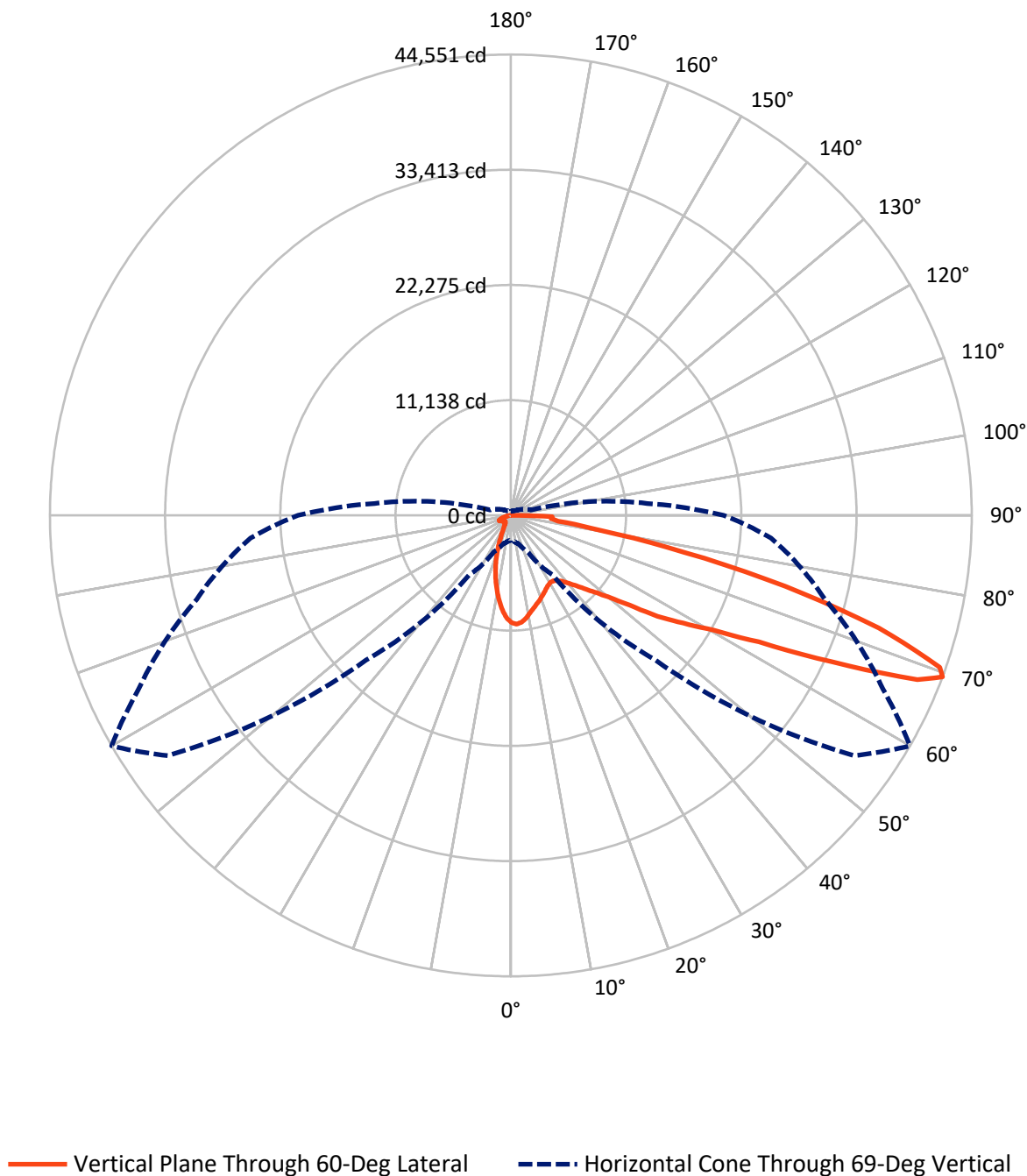


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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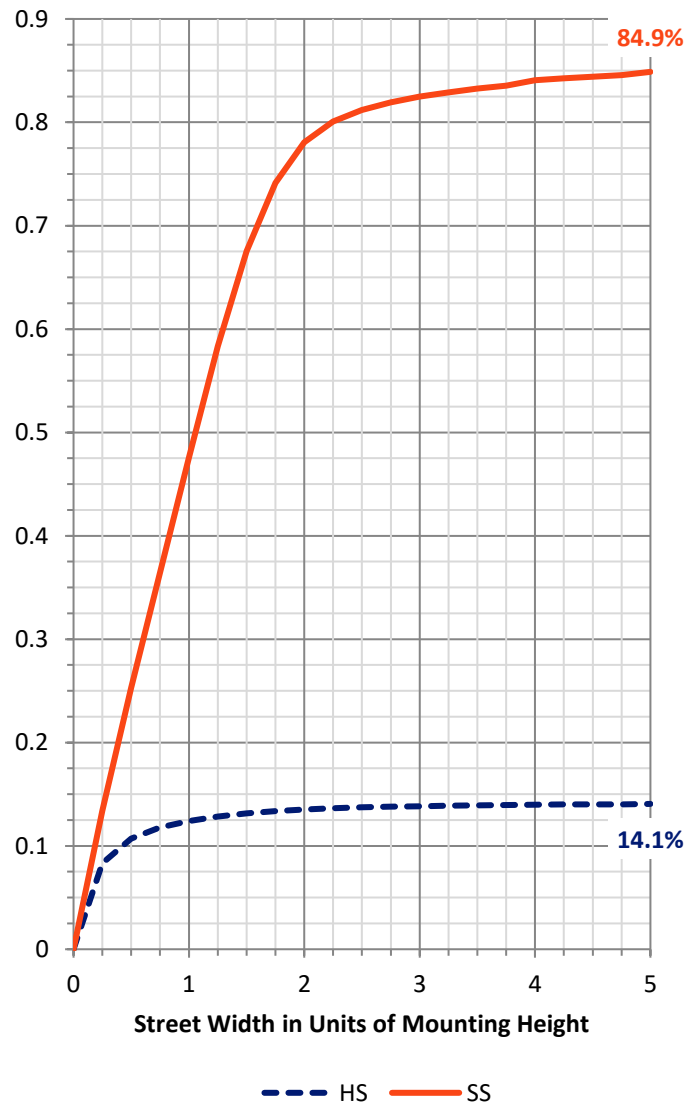
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5793.6	0.0	5793.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	34929.5	0.0	34929.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	40723.1	0.0	40723.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.4	2.2
10°-20°	1869.4	4.6
20°-30°	2381.9	5.8
30°-40°	3274.5	8.0
40°-50°	5313.2	13.0
50°-60°	8521.0	20.9
60°-70°	11340.8	27.8
70°-80°	6123.2	15.0
80°-90°	1021.7	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°	40723.1	100.0
0°-180°	40723.1	100.0

Coefficient of Utilization



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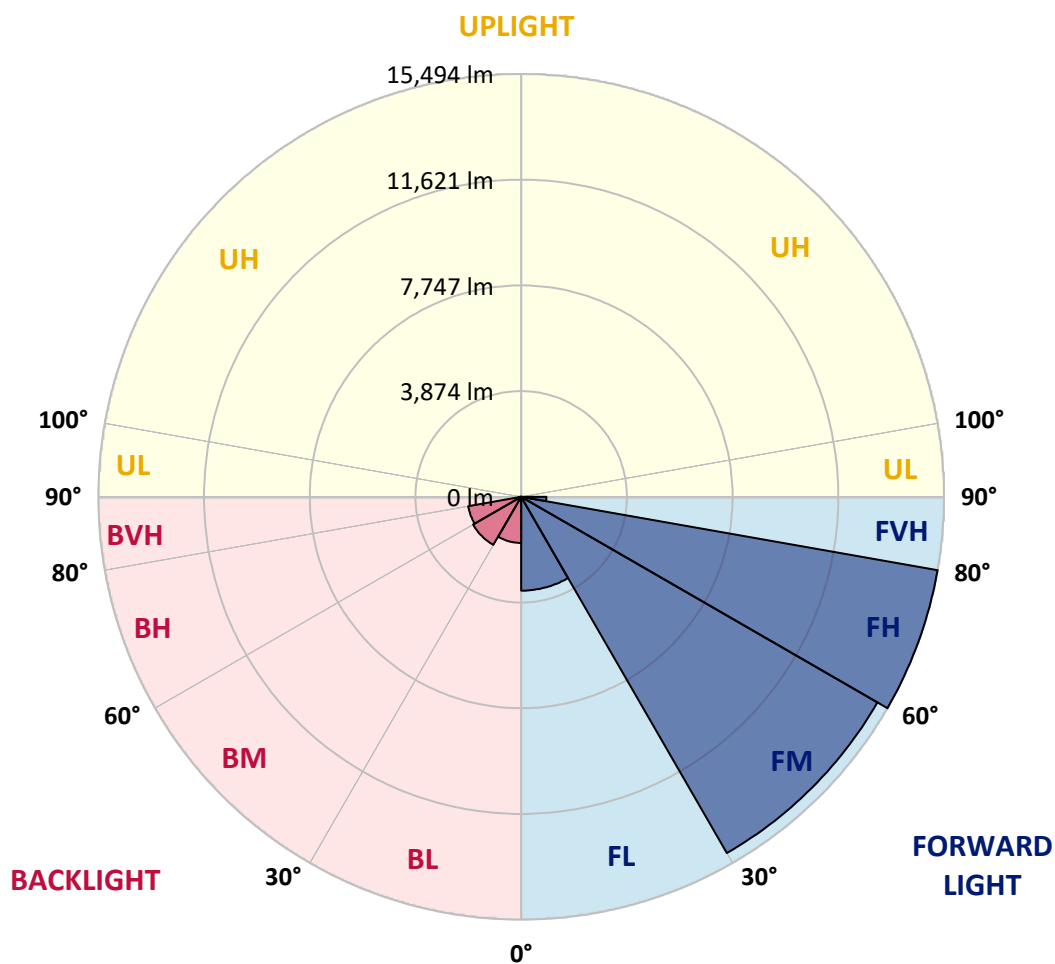
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3438.5	8.4			
FM	(30°-60°)	15073.3	37.0			
FH	(60°-80°)	15494.4	38.0			G5
FVH	(80°-90°)	923.3	2.3			G5
BL	(0°-30°)	1690.2	4.2	B3/2500		
BM	(30°-60°)	2035.4	5.0	B2/2500		
BH	(60°-80°)	1969.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	98.4	0.2			G1/100
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°	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9
2.5°	10589.3	10612.9	10603.1	10597.2	10614.9	10587.3	10530.3	10512.6	10485.1	10420.2	10310.0
5°	10191.9	10262.7	10258.8	10312.0	10400.5	10424.1	10398.5	10402.5	10351.3	10270.6	10087.7
7.5°	9505.4	9534.9	9550.7	9666.7	9828.0	9957.9	10068.0	10103.4	10079.8	10011.0	9774.9
10°	8797.2	8820.8	8858.2	8993.9	9198.5	9377.5	9586.1	9706.0	9757.2	9745.4	9481.8
12.5°	8189.4	8213.0	8262.1	8415.5	8659.6	8879.8	9182.8	9332.3	9454.3	9527.1	9243.8
15°	7644.5	7695.5	7742.7	7919.8	8193.4	8482.5	8824.8	9013.6	9202.5	9365.7	9033.3
17.5°	7219.6	7270.6	7298.2	7459.5	7750.7	8104.8	8506.1	8728.4	8964.4	9232.0	8824.8
20°	6973.7	6997.3	6985.5	7075.9	7337.6	7713.2	8189.4	8447.1	8732.3	9106.1	8616.3
22.5°	6904.7	6906.8	6863.4	6853.7	7022.8	7339.5	7851.1	8163.8	8513.9	9023.4	8437.2
25°	7072.1	7066.2	6948.2	6851.6	6869.3	7054.4	7524.4	7888.4	8331.0	9005.7	8299.6
27.5°	7443.9	7461.6	7286.4	7105.4	6926.4	6920.5	7276.5	7660.1	8181.5	9086.4	8240.6
30°	7965.1	7994.6	7807.7	7577.5	7241.1	6963.8	7180.2	7524.4	8089.0	9253.6	8230.7
32.5°	8535.6	8567.0	8425.4	8183.4	7742.7	7231.4	7247.0	7536.2	8085.0	9487.7	8297.5
35°	9143.5	9178.9	9106.1	8901.5	8411.7	7725.0	7502.9	7727.1	8213.0	9845.7	8476.6
37.5°	9822.1	9877.2	9896.9	9702.1	9178.9	8376.3	7921.9	8089.0	8502.1	10343.5	8805.1
40°	10799.8	10876.5	10870.6	10591.3	10058.2	9255.6	8568.9	8612.4	8952.6	11008.3	9330.3
42.5°	12672.6	12688.3	12198.5	11590.7	11026.0	10180.1	9332.3	9296.9	9574.3	11850.3	10103.4
45°	15054.9	14990.0	13900.1	12725.7	12037.2	11242.4	10325.8	10152.6	10363.1	12877.2	11071.2
47.5°	17031.9	16882.3	15505.3	13884.3	13107.3	12397.2	11492.2	11189.4	11305.4	14041.7	12322.4
50°	17718.3	17606.2	16465.3	14848.3	14120.4	13805.7	12928.3	12499.5	12531.0	15430.5	13788.0
52.5°	17570.8	17555.1	16793.8	15483.6	15068.6	15285.0	14962.4	14382.1	14075.3	16972.8	15369.6
55°	17222.6	17256.1	16980.6	16223.4	16152.5	16713.2	17620.0	17191.2	16237.1	18528.8	17004.3
57.5°	16012.8	16099.4	16705.3	17153.8	17897.4	18731.5	19760.3	19638.4	18564.2	20210.8	18947.8
60°	12900.8	13101.4	14726.3	16972.8	19693.4	22301.9	22762.2	22479.0	20964.2	22297.9	21515.0
62.5°	9039.2	9247.7	11179.5	14694.9	19398.3	26334.6	28128.7	26907.1	24410.7	25372.6	24837.6
65°	4839.3	4939.6	6414.9	10195.8	16376.8	27166.8	35971.9	34112.8	29867.6	29163.4	27680.2
67.5°	2669.4	2724.5	3289.1	5148.1	10489.0	23922.9	40968.5	42373.0	36687.8	31687.3	27162.8
69°	2413.7	2464.9	2834.7	3898.9	7019.0	19780.0	40480.5	44550.7	39678.0	31437.5	25250.7
70°	2360.6	2407.8	2740.3	3594.1	5681.3	16304.0	38845.9	43994.0	40390.1	30542.5	23582.5
72.5°	2124.5	2175.7	2498.3	3228.2	4855.1	8128.4	30770.5	37197.5	36670.1	26482.2	17887.6
75°	1981.0	2028.2	2575.0	3161.3	4648.4	5144.2	20285.5	27414.6	26956.2	18524.9	9645.1
77.5°	847.9	843.9	1194.1	2675.3	4717.3	4980.9	10900.1	17126.3	15625.2	7917.9	2769.8
80°	566.5	556.6	566.5	786.8	4325.8	5008.5	5710.8	8693.0	6566.5	2018.3	1365.2
82.5°	487.9	479.9	497.6	479.9	1520.7	5716.7	4855.1	4622.9	3121.9	1146.9	676.8
85°	328.6	314.7	428.9	430.8	718.1	5079.3	5468.8	3904.8	2525.8	680.6	334.5
87.5°	157.4	153.4	249.8	305.0	420.9	2063.6	6135.7	4001.3	2547.5	348.2	159.3
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°	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9	10376.9
2.5°	10276.5	10195.8	10117.2	10022.8	9924.4	9814.2	9759.1	9704.1	9690.3	9674.6	9619.5
5°	9993.3	9879.2	9682.4	9466.1	9237.9	9015.5	8846.4	8740.2	8659.6	8618.3	8545.3
7.5°	9627.4	9460.2	9115.9	8742.2	8358.6	8008.3	7705.4	7514.7	7333.6	7249.1	7152.6
10°	9279.2	9029.4	8494.3	7943.4	7392.7	6863.4	6365.8	6013.6	5700.9	5525.8	5401.9
12.5°	8980.1	8637.9	7896.2	7150.7	6395.3	5641.8	4896.4	4310.1	3820.2	3562.5	3430.7
15°	8689.1	8276.0	7327.7	6381.5	5411.7	4386.8	3407.1	2742.3	2337.0	2175.7	2120.6
17.5°	8425.4	7896.2	6757.2	5606.4	4396.6	3157.4	2289.7	1923.9	1768.5	1715.4	1697.7
20°	8140.2	7512.6	6165.2	4795.9	3338.3	2207.1	1788.1	1626.9	1563.9	1548.2	1540.3
22.5°	7864.8	7134.9	5598.6	3928.4	2398.0	1703.6	1536.4	1469.5	1459.6	1473.5	1473.5
25°	7630.6	6796.6	4986.8	3021.6	1760.6	1434.0	1375.0	1359.3	1396.7	1447.8	1457.6
27.5°	7455.7	6519.3	4335.6	2230.7	1402.6	1247.2	1245.2	1270.8	1363.2	1461.6	1481.3
30°	7335.5	6255.6	3639.3	1609.2	1176.4	1097.7	1129.2	1184.3	1320.0	1459.6	1497.1
32.5°	7274.6	6060.8	2913.4	1245.2	1007.2	963.8	1016.9	1084.0	1217.7	1347.5	1396.7
35°	7321.8	5917.3	2228.8	1038.6	889.2	855.7	910.7	975.6	1054.5	1109.5	1146.9
37.5°	7498.9	5860.2	1681.9	930.5	808.5	777.1	820.3	857.6	889.2	904.8	922.5
40°	7880.6	5921.2	1347.5	875.3	763.2	724.0	741.7	755.4	775.0	790.8	798.6
42.5°	8443.1	6104.2	1207.9	853.8	739.6	682.7	678.7	684.6	710.1	739.6	745.5
45°	9230.0	6426.7	1198.0	867.5	727.8	649.2	631.5	639.3	678.7	724.0	731.8
47.5°	10235.2	6918.6	1276.7	908.8	737.7	631.5	601.9	611.8	661.0	721.9	731.8
50°	11452.9	7605.1	1408.5	969.7	780.9	635.5	592.0	597.9	649.2	716.0	725.9
52.5°	12891.0	8578.8	1552.1	1028.7	826.2	661.0	600.0	586.1	633.4	692.4	704.2
55°	14490.3	9828.0	1699.6	1082.0	849.8	692.4	615.6	570.5	603.8	653.2	662.9
57.5°	16453.5	11574.9	1955.4	1133.1	865.6	714.1	631.5	554.7	566.5	601.9	609.7
60°	19111.2	14045.6	2405.9	1217.7	901.0	721.9	629.5	541.0	529.2	548.8	552.8
62.5°	22296.0	16728.9	2781.6	1323.9	960.0	727.8	617.7	531.1	497.6	497.6	501.6
65°	24186.5	17446.9	2573.0	1412.4	1009.1	721.9	603.8	521.2	474.0	452.5	454.4
67.5°	22583.3	15344.1	2205.2	1430.1	1007.2	694.5	582.3	503.5	450.4	417.1	415.0
69°	20574.7	13239.2	2040.0	1382.9	960.0	659.1	554.7	483.9	432.7	397.3	395.4
70°	18955.7	11954.5	1931.8	1331.8	908.8	633.4	533.0	466.2	419.0	385.5	381.7
72.5°	13782.1	7833.4	1650.5	1144.9	749.5	531.1	460.3	409.1	373.7	354.1	350.1
75°	6887.0	3735.7	1339.6	928.4	574.3	424.9	377.7	342.3	324.6	320.6	318.7
77.5°	2262.2	1711.4	957.9	692.4	426.8	332.4	305.0	279.3	275.5	287.3	283.3
80°	1243.3	995.4	607.8	458.4	291.1	243.9	240.1	226.2	232.1	251.9	247.9
82.5°	633.4	517.4	375.8	275.5	196.6	175.1	190.7	182.9	190.7	208.4	206.5
85°	312.8	283.3	238.0	167.1	129.8	112.1	135.7	141.6	145.6	159.3	159.3
87.5°	181.0	167.1	125.8	78.6	64.9	59.0	78.6	76.7	90.4	98.4	96.3
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)