

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: P194525

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194525
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-SL3-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 46189 lumens
Efficiency: N/A
Efficacy: 103.1 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): 448
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



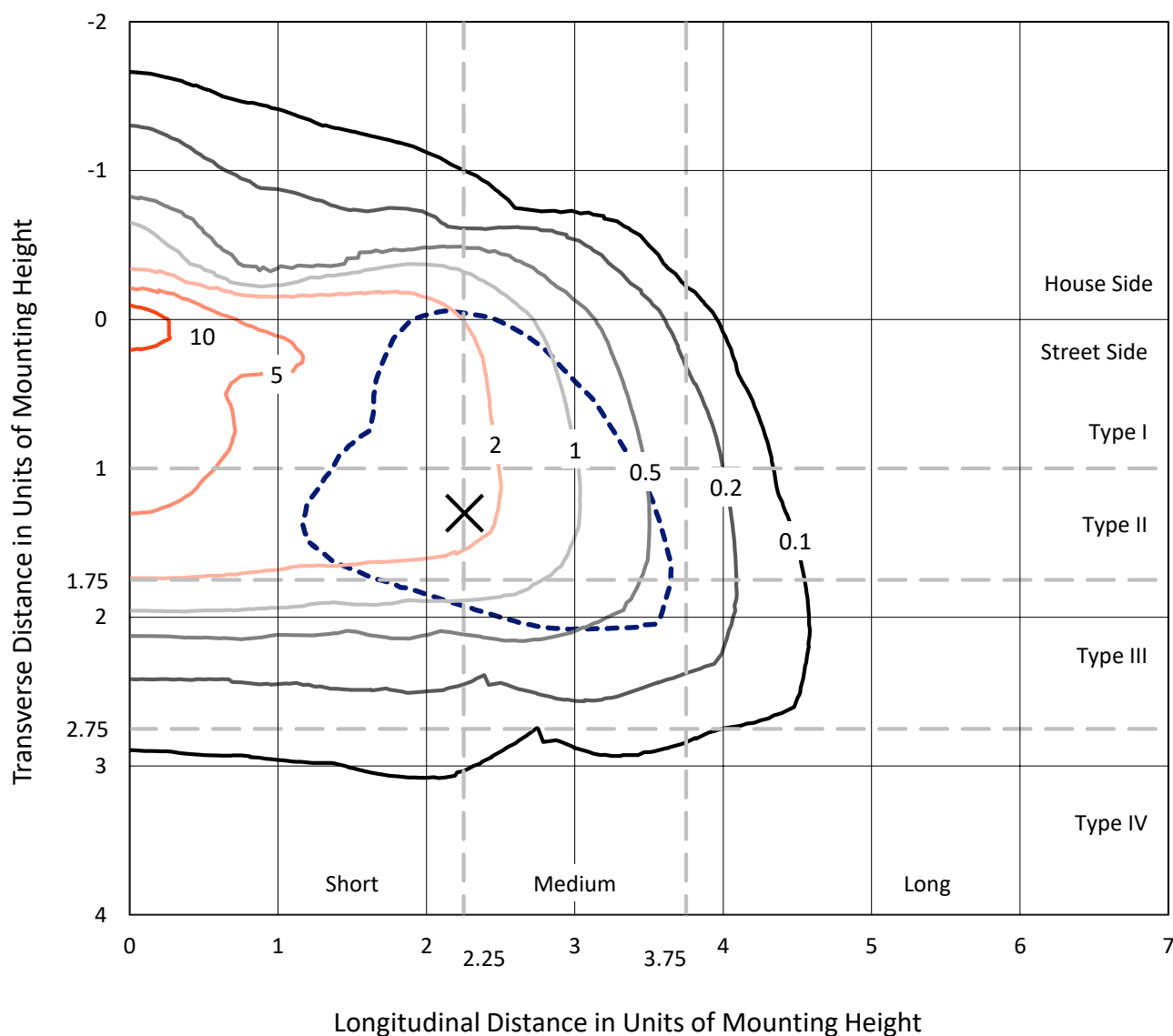
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

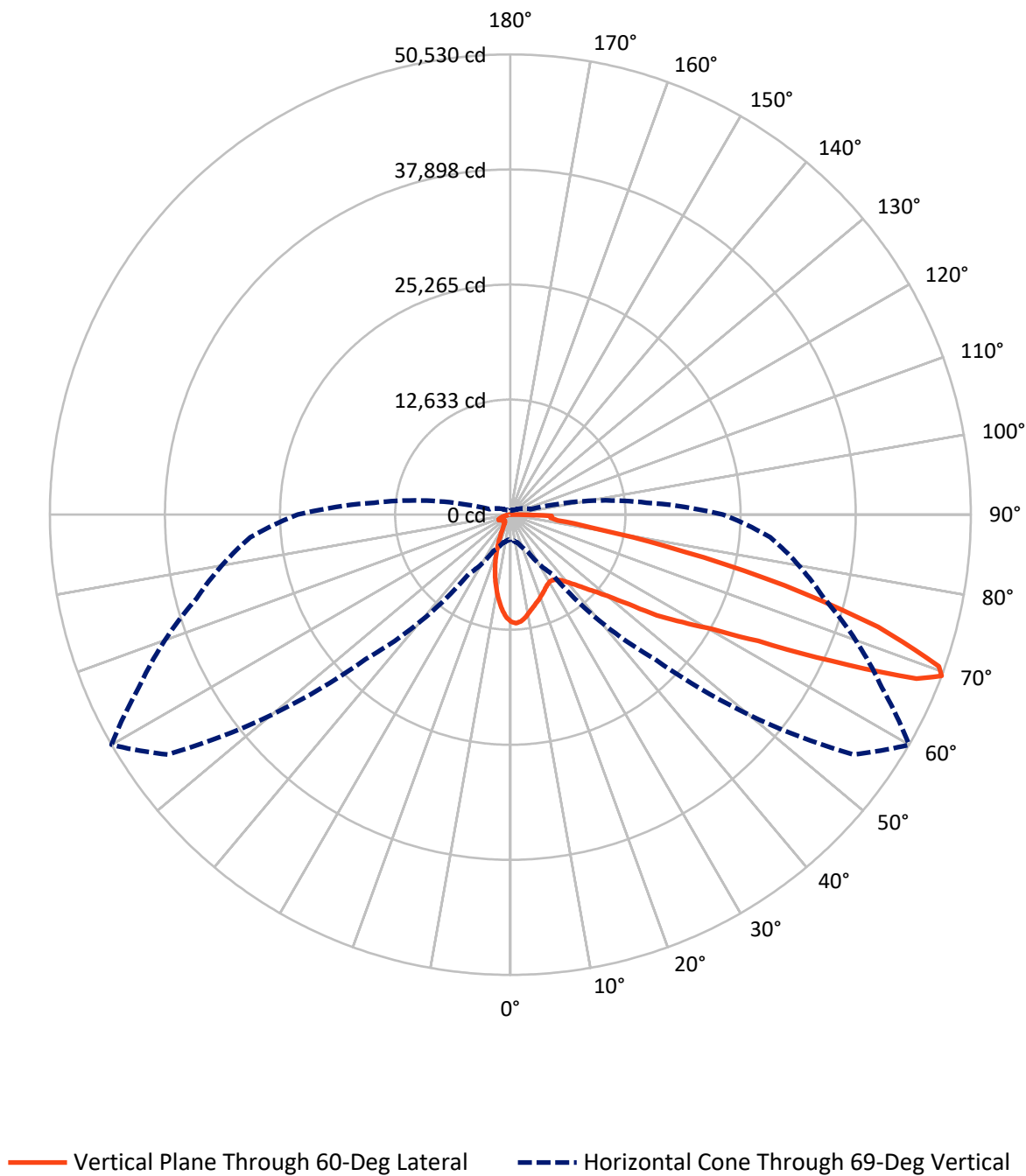


Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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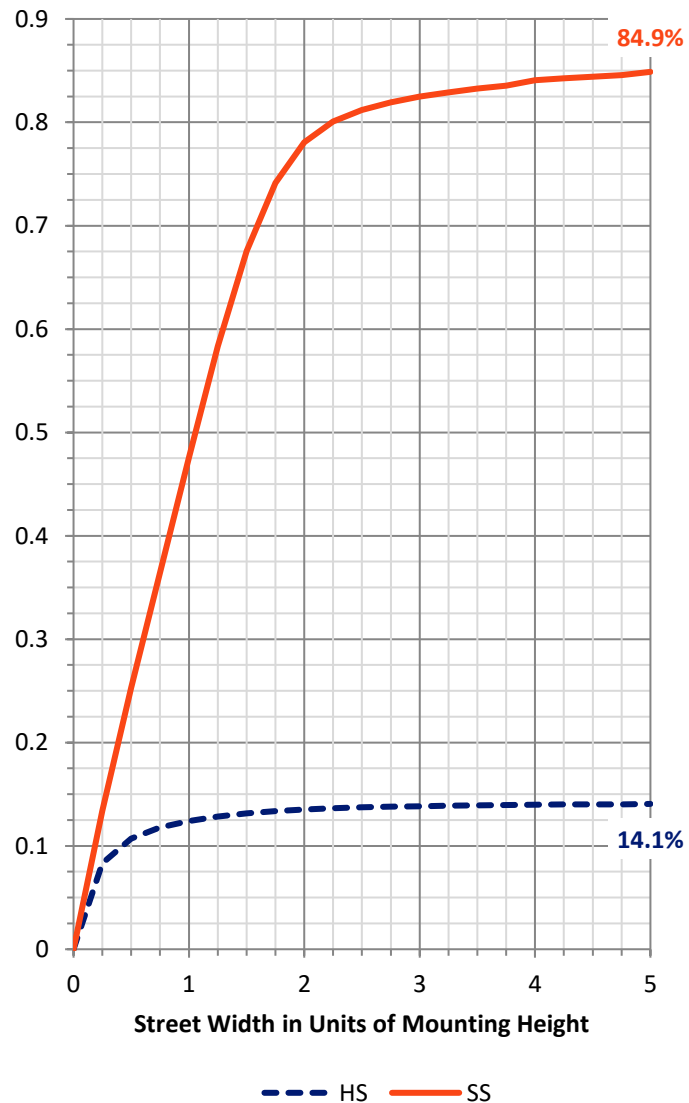
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6571.2	0.0	6571.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	39617.8	0.0	39617.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	46189.0	0.0	46189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.2	2.2
10°-20°	2120.3	4.6
20°-30°	2701.6	5.8
30°-40°	3714.0	8.0
40°-50°	6026.3	13.0
50°-60°	9664.7	20.9
60°-70°	12863.0	27.8
70°-80°	6945.0	15.0
80°-90°	1158.8	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°	46189.0	100.0
0°-180°	46189.0	100.0

Coefficient of Utilization



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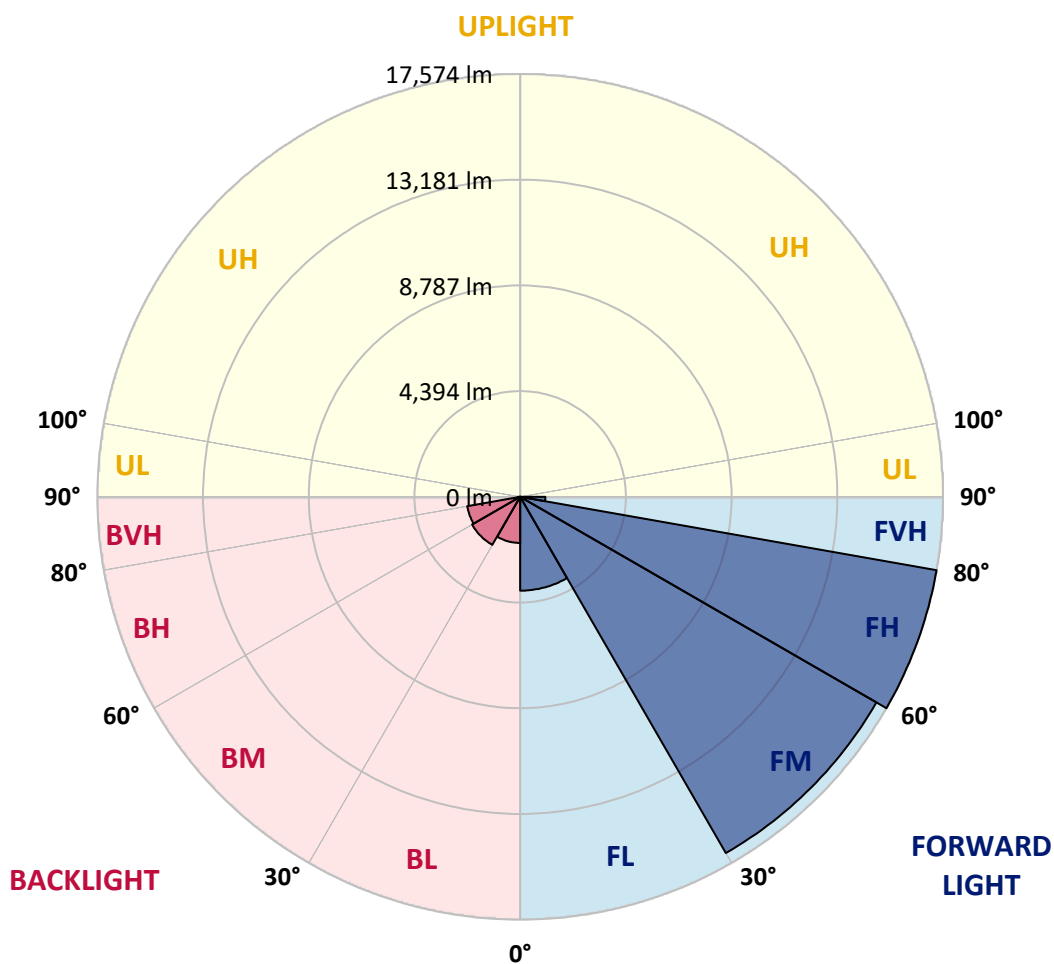
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3900.0	8.4			
FM	(30°-60°)	17096.5	37.0			
FH	(60°-80°)	17574.0	38.0			G5
FVH	(80°-90°)	1047.2	2.3			G5
BL	(0°-30°)	1917.0	4.2	B3/2500		
BM	(30°-60°)	2308.6	5.0	B2/2500		
BH	(60°-80°)	2234.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	111.6	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°	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7
2.5°	12010.6	12037.4	12026.2	12019.6	12039.6	12008.4	11943.7	11923.6	11892.4	11818.7	11693.8
5°	11559.9	11640.2	11635.8	11696.0	11796.4	11823.2	11794.2	11798.7	11740.7	11649.2	11441.7
7.5°	10781.2	10814.7	10832.5	10964.2	11147.1	11294.4	11419.4	11459.5	11432.7	11354.7	11086.9
10°	9978.0	10004.8	10047.2	10201.1	10433.2	10636.2	10872.7	11008.8	11066.8	11053.4	10754.5
12.5°	9288.5	9315.3	9371.1	9545.1	9821.8	10071.7	10415.3	10584.9	10723.2	10805.8	10484.5
15°	8670.5	8728.5	8782.1	8982.9	9293.0	9621.0	10009.2	10223.4	10437.6	10622.8	10245.7
17.5°	8188.6	8246.6	8277.8	8460.8	8791.0	9192.6	9647.8	9899.9	10167.6	10471.1	10009.2
20°	7909.7	7936.4	7923.0	8025.7	8322.4	8748.6	9288.5	9580.8	9904.4	10328.3	9772.7
22.5°	7831.6	7833.8	7784.7	7773.6	7965.4	8324.7	8904.8	9259.5	9656.7	10234.6	9569.7
25°	8021.2	8014.5	7880.7	7771.3	7791.4	8001.1	8534.4	8947.2	9449.2	10214.5	9413.5
27.5°	8442.9	8463.0	8264.4	8059.1	7856.1	7849.4	8253.3	8688.4	9279.6	10306.0	9346.6
30°	9034.2	9067.7	8855.7	8594.6	8213.1	7898.5	8143.9	8534.4	9174.8	10495.6	9335.4
32.5°	9681.2	9716.9	9556.3	9281.9	8782.1	8201.9	8219.8	8547.8	9170.3	10761.1	9411.3
35°	10370.7	10410.8	10328.3	10096.2	9540.7	8762.0	8509.9	8764.2	9315.3	11167.2	9614.3
37.5°	11140.5	11202.9	11225.2	11004.4	10410.8	9500.5	8985.1	9174.8	9643.3	11731.7	9986.9
40°	12249.4	12336.4	12329.7	12012.9	11408.2	10497.9	9719.2	9768.3	10154.3	12485.9	10582.7
42.5°	14373.5	14391.3	13835.8	13146.3	12506.0	11546.5	10584.9	10544.7	10859.3	13440.8	11459.5
45°	17075.5	17001.9	15765.8	14433.7	13652.8	12751.4	11711.6	11515.3	11754.0	14605.5	12557.3
47.5°	19317.9	19148.3	17586.4	15747.9	14866.6	14061.1	13034.8	12691.2	12822.8	15926.4	13976.3
50°	20096.6	19969.4	18675.3	16841.2	16015.7	15658.7	14663.5	14177.1	14212.8	17501.6	15638.6
52.5°	19929.2	19911.4	19047.9	17561.9	17091.1	17336.5	16970.6	16312.4	15964.3	19250.9	17432.5
55°	19534.3	19572.2	19259.8	18400.8	18320.5	18956.4	19985.0	19498.6	18416.4	21015.8	19286.6
57.5°	18162.1	18260.3	18947.5	19456.2	20299.6	21245.6	22412.6	22274.2	21056.0	22923.5	21491.1
60°	14632.3	14859.9	16702.9	19250.9	22336.7	25295.3	25817.4	25496.1	23778.1	25290.8	24402.8
62.5°	10252.4	10488.9	12680.0	16667.2	22002.0	29869.3	31904.1	30518.6	27687.1	28778.2	28171.3
65°	5488.8	5602.6	7276.0	11564.4	18574.9	30813.1	40800.0	38691.5	33876.5	33077.8	31395.4
67.5°	3027.8	3090.2	3730.6	5839.1	11896.8	27133.8	46467.3	48060.4	41612.2	35940.4	30808.6
69°	2737.7	2795.7	3215.2	4422.3	7961.0	22434.9	45913.9	50530.3	45003.6	35657.0	28639.9
70°	2677.5	2731.0	3108.1	4076.4	6443.7	18492.3	44059.8	49898.9	45811.3	34641.8	26747.8
72.5°	2409.7	2467.7	2833.6	3661.4	5506.6	9219.4	34900.7	42190.0	41592.1	30036.6	20288.4
75°	2246.8	2300.4	2920.7	3585.6	5272.4	5834.6	23008.3	31094.2	30574.3	21011.4	10939.6
77.5°	961.7	957.2	1354.3	3034.5	5350.5	5649.4	12363.2	19425.0	17722.5	8980.6	3141.6
80°	642.6	631.4	642.6	892.5	4906.4	5680.7	6477.2	9859.7	7447.8	2289.2	1548.5
82.5°	553.3	544.4	564.5	544.4	1724.7	6483.9	5506.6	5243.4	3540.9	1300.8	767.5
85°	372.6	357.0	486.4	488.6	814.4	5761.0	6202.8	4429.0	2864.9	772.0	379.3
87.5°	178.5	174.0	283.4	345.8	477.5	2340.5	6959.2	4538.3	2889.4	394.9	180.7
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°	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7	11769.7
2.5°	11655.9	11564.4	11475.1	11368.0	11256.5	11131.5	11069.1	11006.6	10991.0	10973.1	10910.6
5°	11334.6	11205.2	10982.0	10736.6	10477.8	10225.7	10033.8	9913.3	9821.8	9775.0	9692.4
7.5°	10919.6	10729.9	10339.4	9915.5	9480.4	9083.3	8739.7	8523.2	8318.0	8222.0	8112.7
10°	10524.6	10241.3	9634.4	9009.6	8384.9	7784.7	7220.2	6820.8	6466.1	6267.5	6126.9
12.5°	10185.5	9797.3	8956.1	8110.5	7253.7	6399.1	5553.5	4888.6	4333.0	4040.7	3891.2
15°	9855.3	9386.7	8311.3	7238.1	6138.1	4975.6	3864.5	3110.3	2650.7	2467.7	2405.2
17.5°	9556.3	8956.1	7664.2	6359.0	4986.8	3581.1	2597.1	2182.1	2005.9	1945.6	1925.5
20°	9232.8	8521.0	6992.6	5439.7	3786.4	2503.4	2028.2	1845.2	1773.8	1756.0	1747.0
22.5°	8920.4	8092.6	6350.0	4455.7	2719.9	1932.2	1742.6	1666.7	1655.6	1671.2	1671.2
25°	8654.9	7708.8	5656.1	3427.1	1996.9	1626.6	1559.6	1541.8	1584.2	1642.2	1653.3
27.5°	8456.3	7394.2	4917.6	2530.2	1590.9	1414.6	1412.4	1441.4	1546.2	1657.8	1680.1
30°	8320.2	7095.3	4127.7	1825.1	1334.3	1245.0	1280.7	1343.2	1497.1	1655.6	1698.0
32.5°	8251.0	6874.4	3304.4	1412.4	1142.4	1093.3	1153.5	1229.4	1381.1	1528.4	1584.2
35°	8304.6	6711.5	2528.0	1178.1	1008.5	970.6	1033.1	1106.7	1195.9	1258.4	1300.8
37.5°	8505.4	6646.8	1907.7	1055.4	917.0	881.3	930.4	972.8	1008.5	1026.4	1046.4
40°	8938.2	6716.0	1528.4	992.9	865.7	821.1	841.2	856.8	879.1	896.9	905.9
42.5°	9576.4	6923.5	1370.0	968.3	838.9	774.2	769.8	776.5	805.5	838.9	845.6
45°	10468.9	7289.4	1358.8	984.0	825.5	736.3	716.2	725.1	769.8	821.1	830.0
47.5°	11609.0	7847.2	1448.1	1030.8	836.7	716.2	682.8	693.9	749.7	818.9	830.0
50°	12990.1	8625.9	1597.5	1100.0	885.8	720.7	671.6	678.3	736.3	812.2	823.3
52.5°	14621.2	9730.3	1760.4	1166.9	937.1	749.7	680.5	664.9	718.5	785.4	798.8
55°	16435.1	11147.1	1927.8	1227.2	963.9	785.4	698.4	647.1	685.0	740.8	751.9
57.5°	18661.9	13128.5	2217.8	1285.2	981.7	809.9	716.2	629.2	642.6	682.8	691.7
60°	21676.3	15930.9	2728.8	1381.1	1021.9	818.9	714.0	613.6	600.2	622.5	627.0
62.5°	25288.6	18974.3	3154.9	1501.6	1088.8	825.5	700.6	602.4	564.5	564.5	569.0
65°	27432.8	19788.6	2918.4	1602.0	1144.6	818.9	685.0	591.3	537.7	513.2	515.4
67.5°	25614.3	17403.5	2501.2	1622.1	1142.4	787.6	660.4	571.2	510.9	473.0	470.8
69°	23336.3	15016.1	2313.8	1568.5	1088.8	747.5	629.2	548.9	490.9	450.7	448.5
70°	21500.0	13559.1	2191.1	1510.5	1030.8	718.5	604.7	528.8	475.2	437.3	432.9
72.5°	15631.9	8884.7	1872.0	1298.6	850.1	602.4	522.1	464.1	423.9	401.6	397.2
75°	7811.5	4237.1	1519.5	1053.1	651.5	481.9	428.4	388.2	368.2	363.7	361.5
77.5°	2565.9	1941.2	1086.6	785.4	484.2	377.1	345.8	316.8	312.4	325.8	321.3
80°	1410.1	1129.0	689.4	519.9	330.2	276.7	272.2	256.6	263.3	285.6	281.1
82.5°	718.5	586.8	426.2	312.4	223.1	198.6	216.4	207.5	216.4	236.5	234.3
85°	354.8	321.3	270.0	189.7	147.3	127.2	154.0	160.6	165.1	180.7	180.7
87.5°	205.3	189.7	142.8	89.2	73.6	66.9	89.2	87.0	102.6	111.6	109.3
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)