

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: P458506

Luminaire Tested: **GALN-SA9D-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55264 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
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: 24 FT



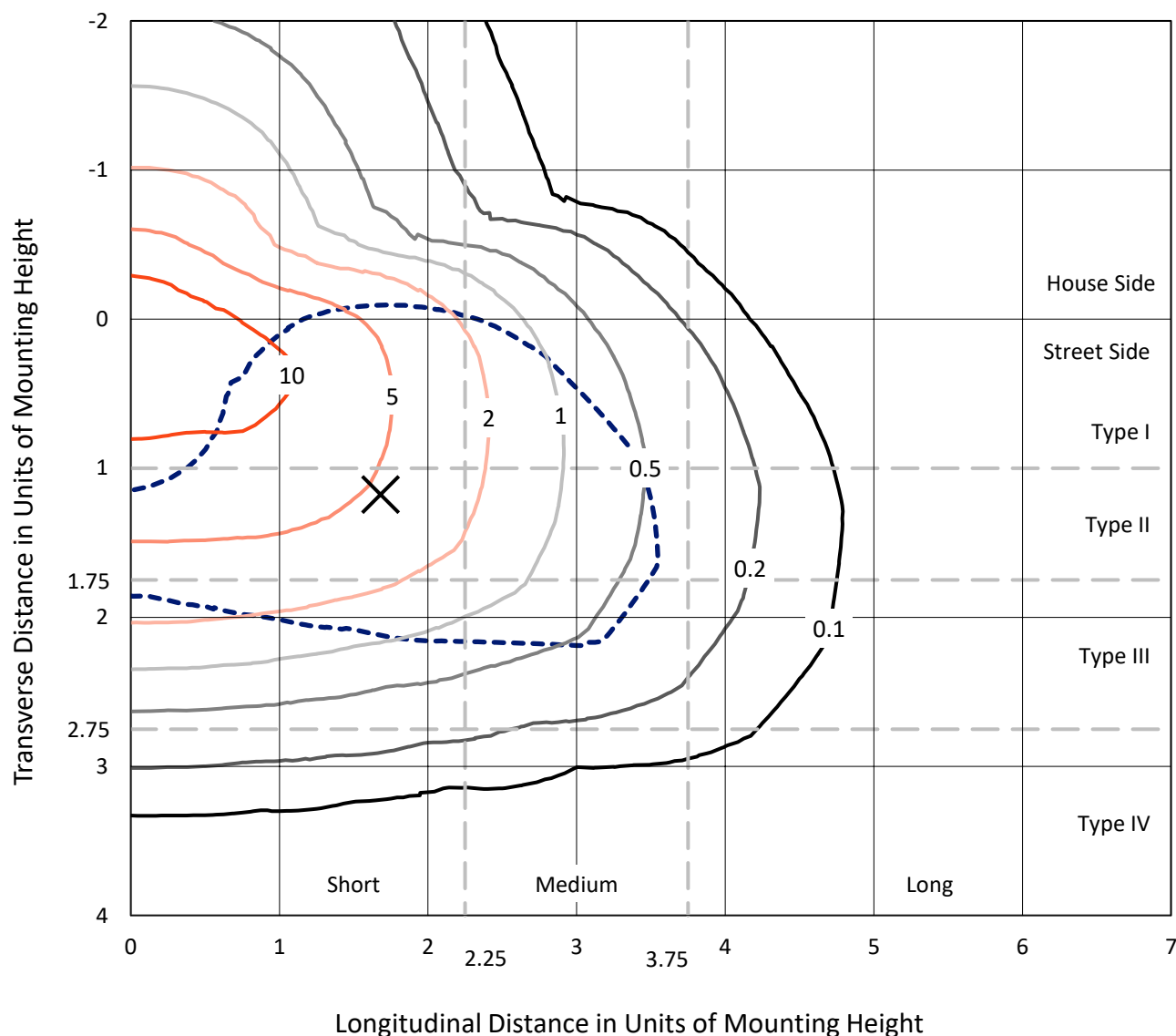
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

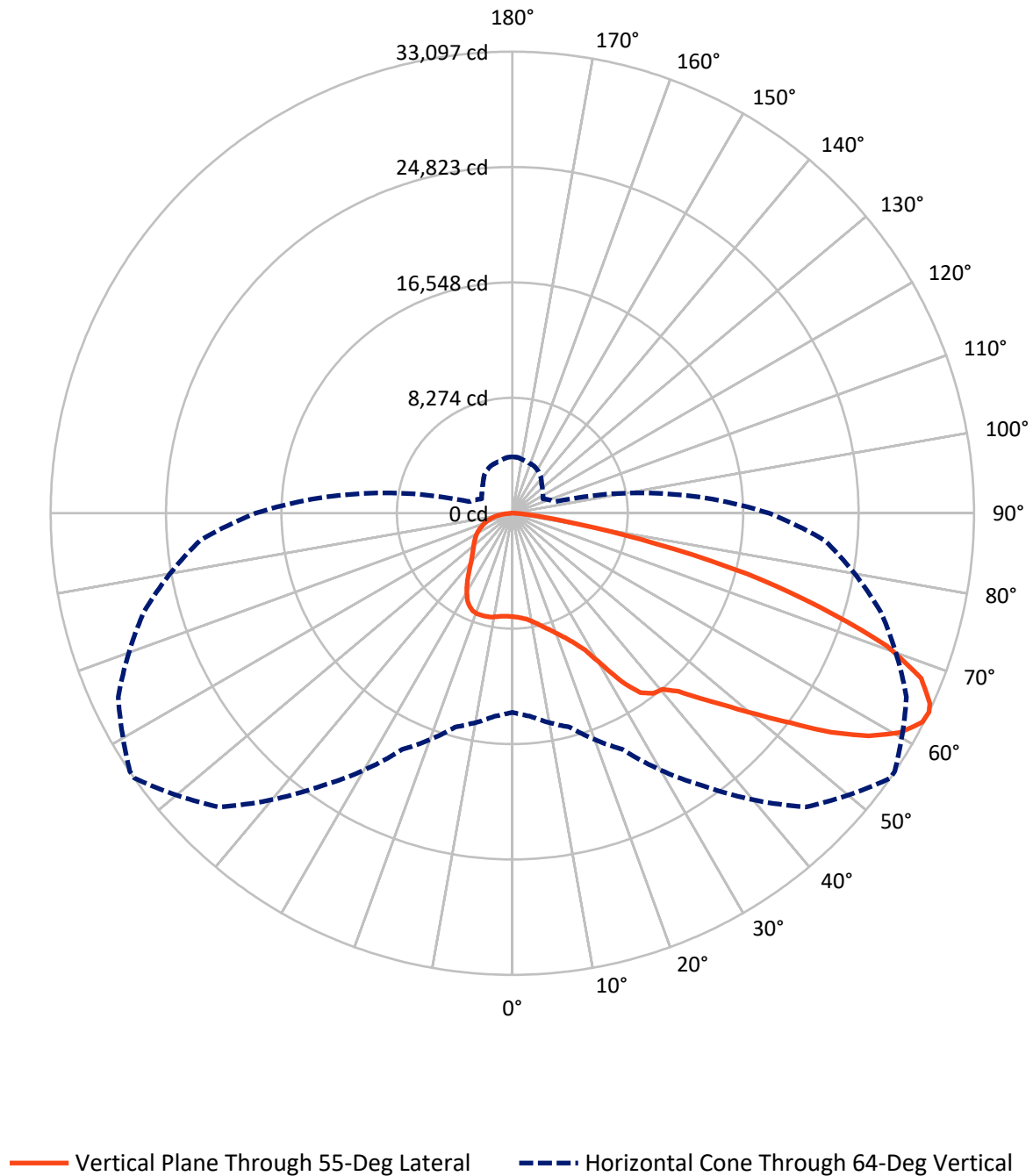


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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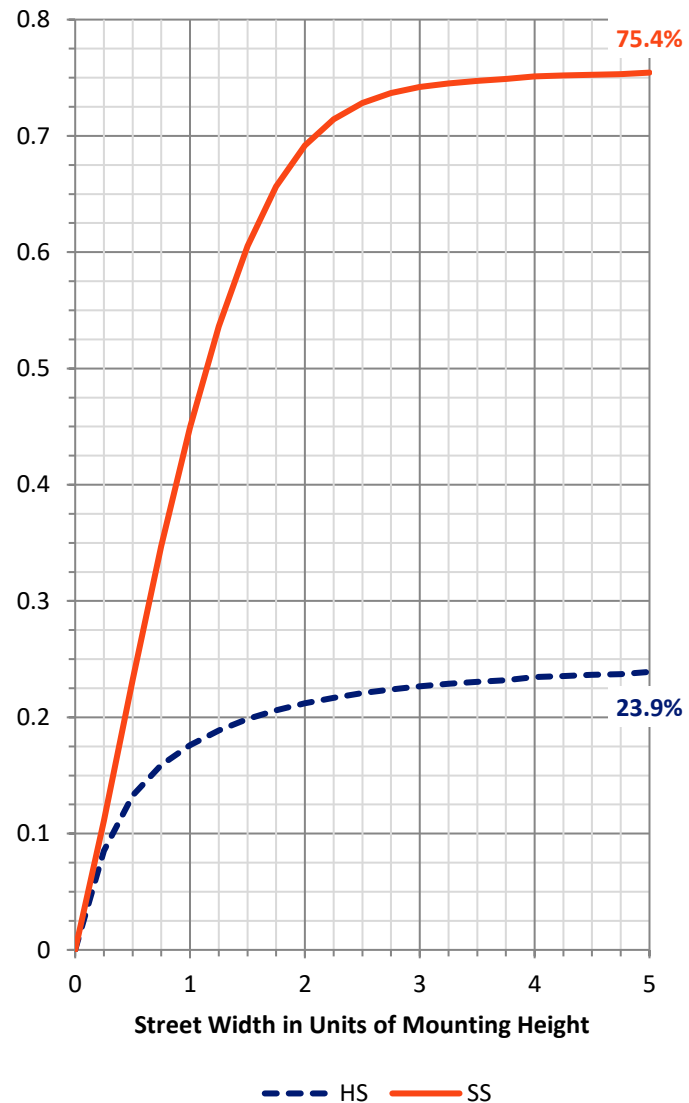
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13424.7	0.0	13424.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	41839.3	0.0	41839.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	55264.0	0.0	55264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.3	1.3
10°-20°	2275.8	4.1
20°-30°	4051.5	7.3
30°-40°	6233.7	11.3
40°-50°	8836.7	16.0
50°-60°	12791.0	23.1
60°-70°	13237.3	24.0
70°-80°	6199.0	11.2
80°-90°	917.7	1.7
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°	55264.0	100.0
0°-180°	55264.0	100.0

Coefficient of Utilization



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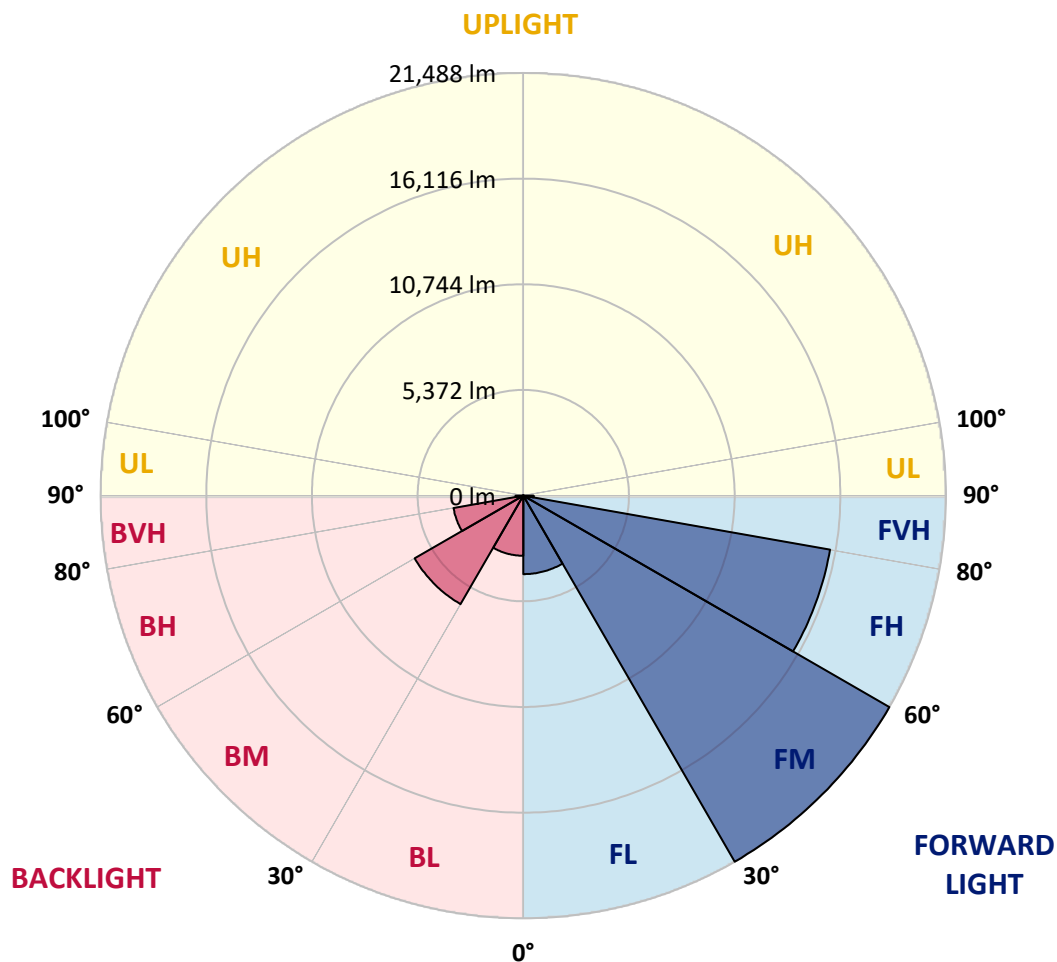
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3990.9	7.2			
FM	(30°-60°)	21488.1	38.9			
FH	(60°-80°)	15834.7	28.7			G5
FVH	(80°-90°)	525.4	1.0			G4/750
BL	(0°-30°)	3057.6	5.5	B4/5000		
BM	(30°-60°)	6373.2	11.5	B4/8500		
BH	(60°-80°)	3601.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	392.2	0.7			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8
2.5°	7497.9	7494.9	7504.1	7494.9	7501.0	7479.5	7470.2	7476.4	7467.1	7451.7	7424.0
5°	7590.3	7587.3	7590.3	7578.0	7584.2	7571.9	7550.3	7556.5	7541.1	7507.2	7467.1
7.5°	7747.5	7735.1	7735.1	7732.1	7719.7	7701.2	7685.8	7679.7	7664.3	7621.2	7559.5
10°	7950.8	7950.8	7953.8	7929.2	7944.6	7910.7	7895.3	7892.2	7839.9	7784.4	7698.2
12.5°	8218.8	8234.2	8224.9	8212.6	8206.4	8194.1	8141.8	8154.1	8095.6	8000.1	7895.3
15°	8551.5	8576.1	8560.7	8554.5	8539.1	8492.9	8471.4	8462.1	8385.1	8246.5	8107.9
17.5°	8992.0	8961.2	8948.8	8933.4	8868.8	8834.9	8797.9	8791.7	8724.0	8560.7	8345.1
20°	9377.0	9420.2	9395.5	9380.1	9315.4	9250.7	9223.0	9213.8	9155.2	8976.6	8631.6
22.5°	9836.0	9845.3	9854.5	9817.5	9786.7	9737.5	9688.2	9672.8	9651.2	9466.4	9044.3
25°	10325.8	10362.8	10332.0	10295.0	10258.1	10255.0	10301.2	10295.0	10285.8	10107.1	9592.7
27.5°	11123.7	11157.6	11166.8	11126.8	10985.1	10997.4	11102.1	11136.0	11277.7	10982.0	10298.1
30°	11573.4	11607.3	11684.3	11835.3	12060.2	12257.3	12509.9	12586.9	12722.5	12164.9	11136.0
32.5°	11850.7	11863.0	12001.6	12281.9	12956.6	13692.8	14379.8	14407.5	14493.7	13711.3	11903.0
35°	12288.1	12297.4	12408.2	12716.3	13508.0	14734.0	15796.8	15830.7	15759.8	14191.9	12260.4
37.5°	12827.2	12851.8	12922.7	13178.4	14124.1	15605.8	16385.2	16360.5	15732.1	14573.8	12891.9
40°	13612.7	13612.7	13529.6	13874.6	14774.1	16104.8	16591.6	16548.4	16382.1	15679.7	13853.0
42.5°	14305.8	14293.5	14490.7	14724.8	15587.3	16875.0	17457.2	17528.0	17802.2	17069.0	14946.6
45°	15208.4	15263.9	15374.8	15799.9	16970.5	18190.3	18942.0	19009.8	19397.9	18704.8	16225.0
47.5°	16120.3	16138.7	16486.8	17053.6	18683.2	19974.0	20590.1	20701.0	21055.2	20617.8	17602.0
50°	16767.2	16942.7	17500.3	18393.7	20448.4	22148.8	22629.3	22761.8	23387.1	22700.2	19206.9
52.5°	17451.0	17623.5	18304.3	19665.9	22475.3	24372.9	24964.4	25053.7	25703.7	24807.3	20848.8
55°	18036.3	18196.5	18969.7	20793.4	24089.5	26643.2	27715.2	27610.5	27921.6	26430.7	22114.9
57.5°	18131.8	18261.2	19234.6	21514.2	25303.2	28590.1	30127.3	30188.9	29828.5	27644.4	23159.2
60°	17392.5	17657.4	18775.6	21437.2	25848.5	29945.5	31926.3	31969.4	30946.7	28266.7	23575.1
62.5°	16083.3	16055.6	17407.9	20198.8	25084.5	30253.6	32986.0	32939.8	31384.1	27967.8	23171.5
64°	14275.0	14607.7	15870.7	18677.1	23852.3	29779.2	33096.9	33072.2	31174.6	27345.6	22484.6
65°	13172.2	13153.7	14401.3	17432.5	22626.3	29064.5	32899.7	32865.8	30737.2	26788.0	21951.6
67.5°	9509.5	9552.6	10784.8	13452.5	18393.7	26270.5	31615.2	31488.9	29012.1	24939.7	19924.7
70°	5760.5	5785.2	6752.5	8924.2	13203.0	21237.0	28497.7	28503.9	26372.2	22179.6	16958.1
72.5°	3034.3	3099.0	3487.1	5067.4	8018.5	14900.4	23119.1	23667.5	22641.7	18929.7	13397.1
75°	1688.1	1697.4	1971.5	2498.3	4090.9	8338.9	17377.1	17534.2	17925.4	15236.1	9906.9
77.5°	1287.6	1306.1	1392.4	1614.2	2227.2	3866.0	10516.8	11305.4	12633.1	10741.7	5652.7
80°	1044.3	1062.8	1136.7	1269.2	1481.7	1832.9	4885.7	5310.8	6761.7	4768.6	2205.6
82.5°	813.3	800.9	896.4	982.7	1078.2	1084.3	2005.4	2218.0	2754.0	2051.6	955.0
85°	603.8	603.8	680.8	662.3	696.2	634.6	884.1	976.5	1102.8	871.8	443.6
87.5°	240.3	264.9	446.7	400.5	311.1	249.5	326.5	345.0	382.0	341.9	184.8
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°	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8	7414.8
2.5°	7427.1	7436.3	7414.8	7399.4	7393.2	7384.0	7374.7	7377.8	7390.1	7402.4	7399.4
5°	7464.0	7467.1	7430.2	7411.7	7399.4	7387.0	7387.0	7396.3	7420.9	7439.4	7439.4
7.5°	7556.5	7556.5	7504.1	7470.2	7451.7	7430.2	7424.0	7427.1	7445.6	7470.2	7473.3
10°	7701.2	7688.9	7621.2	7568.8	7534.9	7482.5	7436.3	7411.7	7420.9	7436.3	7436.3
12.5°	7876.8	7843.0	7756.7	7685.8	7602.7	7504.1	7408.6	7359.3	7356.2	7371.6	7365.5
15°	8064.7	8027.8	7907.6	7778.3	7633.5	7488.7	7374.7	7303.9	7248.4	7233.0	7266.9
17.5°	8283.5	8206.4	8040.1	7861.4	7645.8	7457.9	7279.2	7134.4	7035.9	7008.1	7017.4
20°	8548.4	8446.7	8221.9	7941.5	7636.6	7347.0	7069.7	6875.7	6715.5	6666.2	6672.4
22.5°	8915.0	8739.4	8409.8	7981.6	7559.5	7137.5	6752.5	6499.9	6305.8	6228.8	6275.0
25°	9330.8	9139.8	8588.4	7972.3	7359.3	6801.7	6376.6	6047.0	5871.4	5757.5	5782.1
27.5°	9903.8	9564.9	8779.4	7889.2	7072.8	6392.0	5899.2	5588.0	5427.8	5369.3	5397.0
30°	10637.0	10116.4	8985.8	7664.3	6620.0	5874.5	5418.6	5215.3	5119.8	5045.9	5070.5
32.5°	11166.8	10504.5	9032.0	7285.4	6130.2	5403.2	5092.1	4941.1	4836.4	4765.5	4780.9
35°	11545.7	10834.1	9010.5	6820.2	5618.8	5015.1	4833.3	4710.1	4540.7	4386.6	4358.9
37.5°	12054.0	11246.9	8853.4	6311.9	5113.6	4753.2	4623.8	4395.9	4152.5	3946.1	3936.9
40°	12833.4	11730.5	8517.6	5714.3	4682.4	4559.1	4402.0	4106.3	3844.5	3678.1	3665.8
42.5°	13637.4	12177.2	8061.7	5085.9	4328.1	4355.8	4164.8	3872.2	3712.0	3604.2	3591.9
45°	14620.0	12660.9	7568.8	4540.7	4066.3	4164.8	3958.4	3789.0	3693.5	3622.7	3604.2
47.5°	15682.8	13156.8	7014.3	4050.9	3844.5	3989.2	3872.2	3795.2	3742.8	3693.5	3672.0
50°	16828.8	13711.3	6493.7	3656.6	3644.2	3807.5	3862.9	3835.2	3804.4	3789.0	3770.5
52.5°	18085.6	14278.1	6056.3	3379.3	3468.6	3678.1	3866.0	3887.6	3887.6	3878.3	3866.0
55°	18935.8	14672.4	5612.7	3154.4	3290.0	3573.4	3859.9	3943.0	3973.8	3961.5	3949.2
57.5°	19564.2	14888.1	5055.1	2960.4	3139.0	3471.7	3826.0	3949.2	3980.0	3995.4	3989.2
60°	19693.6	14687.8	4325.0	2757.0	2975.8	3323.9	3702.8	3856.8	3896.8	3992.3	4001.6
62.5°	19111.4	14071.7	3598.0	2556.8	2775.5	3099.0	3536.4	3752.0	3832.1	3980.0	3995.4
64°	18396.7	13381.7	3194.5	2430.5	2646.1	2972.7	3453.2	3724.3	3829.1	4026.2	4038.5
65°	17873.1	12879.6	2941.9	2350.4	2563.0	2889.5	3407.0	3733.6	3856.8	4097.1	4115.5
67.5°	15944.7	11151.4	2433.6	2162.5	2365.8	2747.8	3416.3	3810.6	3850.6	4124.8	4121.7
70°	13193.8	8878.0	2039.3	1990.0	2174.8	2633.8	3379.3	3687.4	3690.4	3872.2	3829.1
72.5°	9879.2	6561.5	1768.2	1811.3	1962.3	2362.7	3191.4	3521.0	3468.6	3493.3	3450.2
75°	6786.3	4340.4	1521.8	1620.3	1740.5	2088.6	2926.5	3197.6	3114.4	3083.6	3052.8
77.5°	3622.7	2399.7	1266.1	1432.4	1512.5	1805.2	2553.7	2815.6	2729.3	2609.2	2569.1
80°	1466.3	1130.5	1019.6	1186.0	1232.2	1454.0	2125.5	2288.8	2224.1	2014.6	1946.9
82.5°	736.2	677.7	800.9	933.4	936.5	1038.1	1580.3	1734.3	1589.5	1333.9	1275.3
85°	385.1	397.4	551.4	656.1	579.1	560.7	948.8	1050.5	964.2	837.9	754.7
87.5°	138.6	160.2	289.6	286.5	203.3	107.8	209.5	101.7	55.4	33.9	43.1
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)