

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: P529740

Luminaire Tested: **GALN-SA4D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20612 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

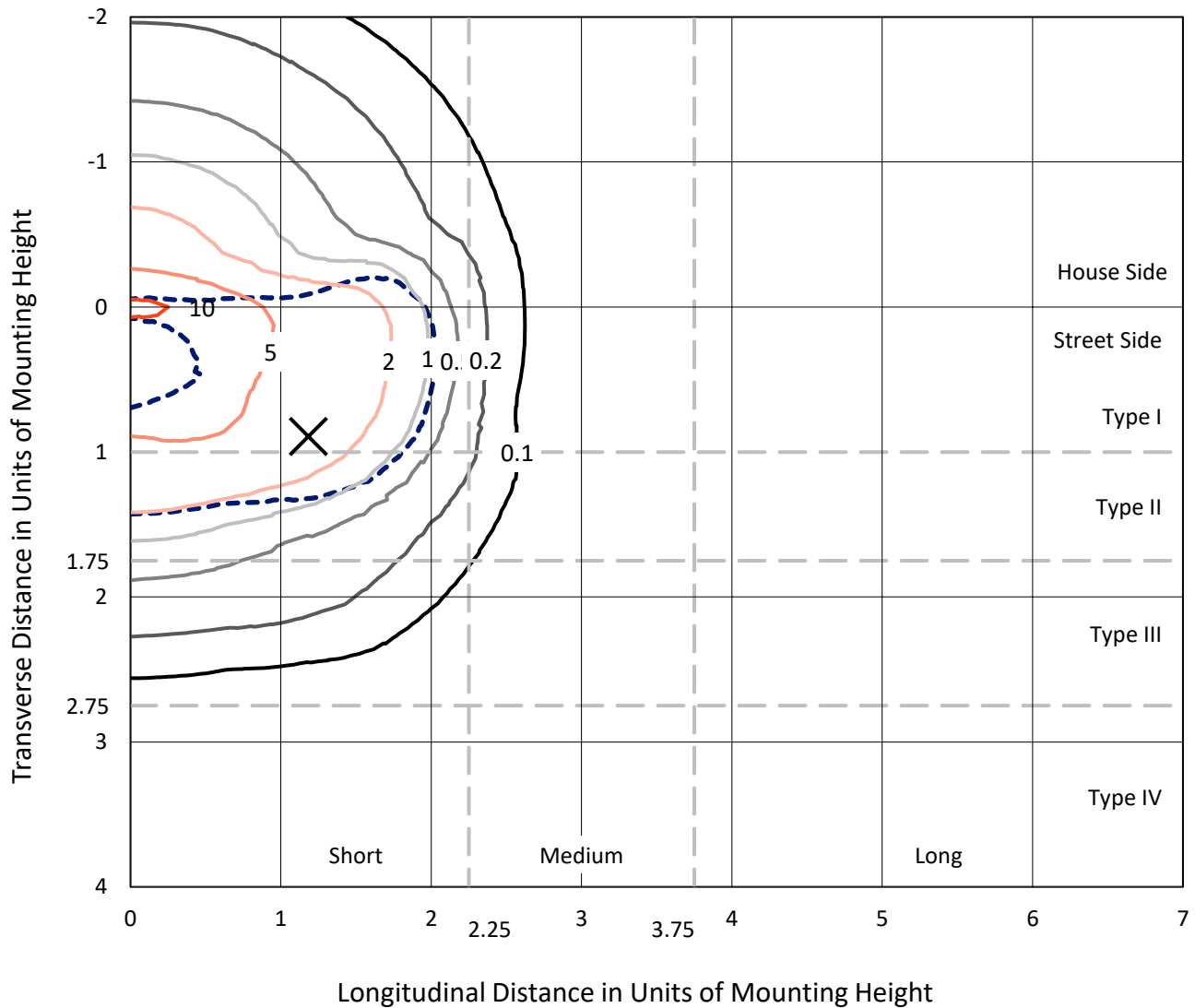
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

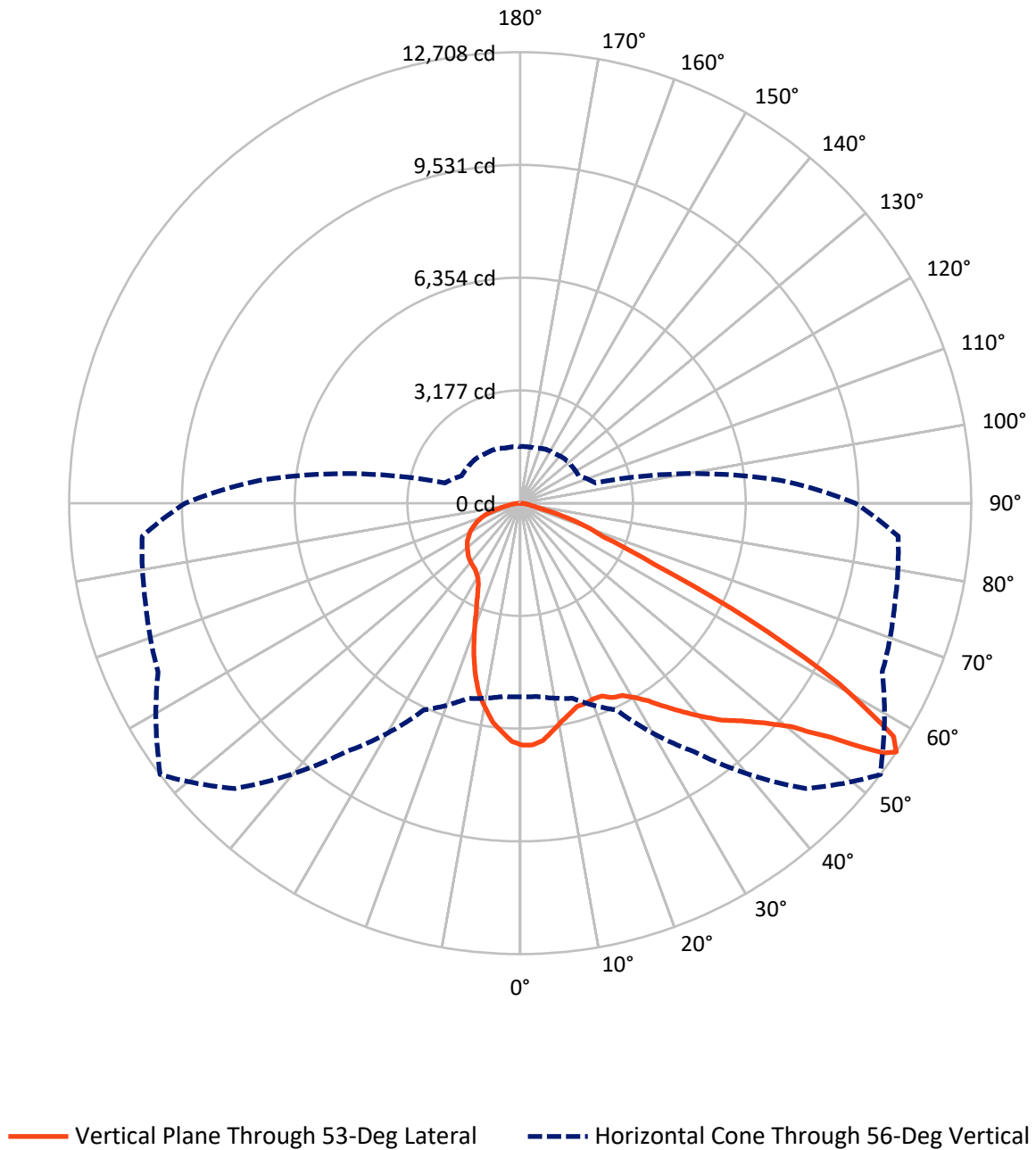
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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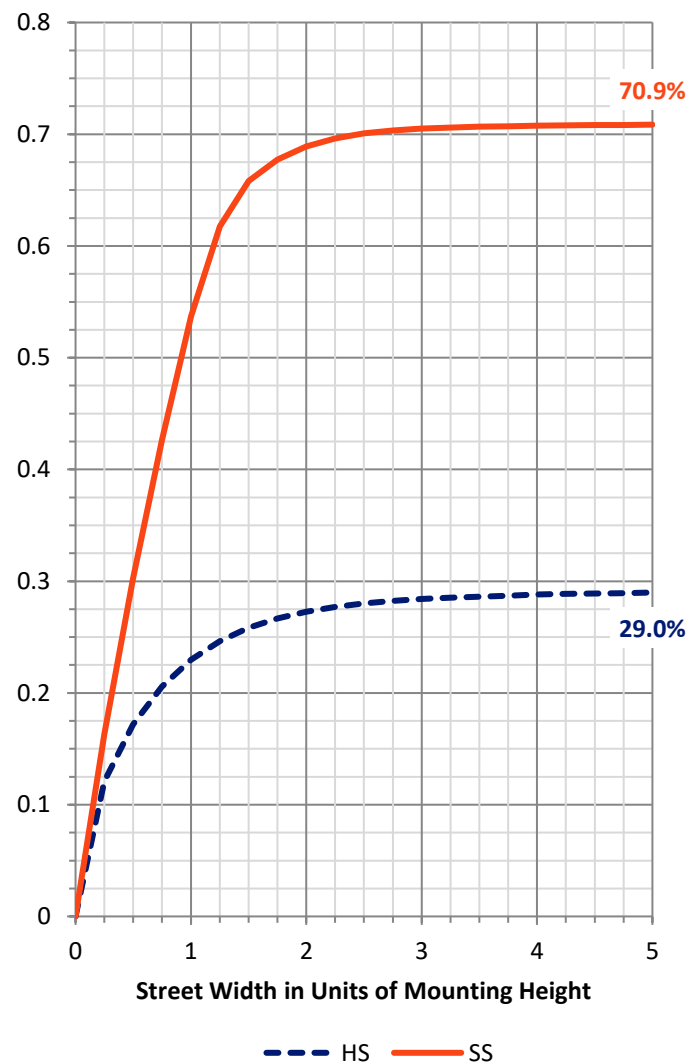
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6015.0	0.0	6015.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	14597.0	0.0	14597.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	20612.0	0.0	20612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.7	2.9
10°-20°	1507.8	7.3
20°-30°	2223.4	10.8
30°-40°	3176.7	15.4
40°-50°	4372.3	21.2
50°-60°	5166.9	25.1
60°-70°	2753.6	13.4
70°-80°	698.6	3.4
80°-90°	108.9	0.5
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°	20612.0	100.0
0°-180°	20612.0	100.0

Coefficient of Utilization



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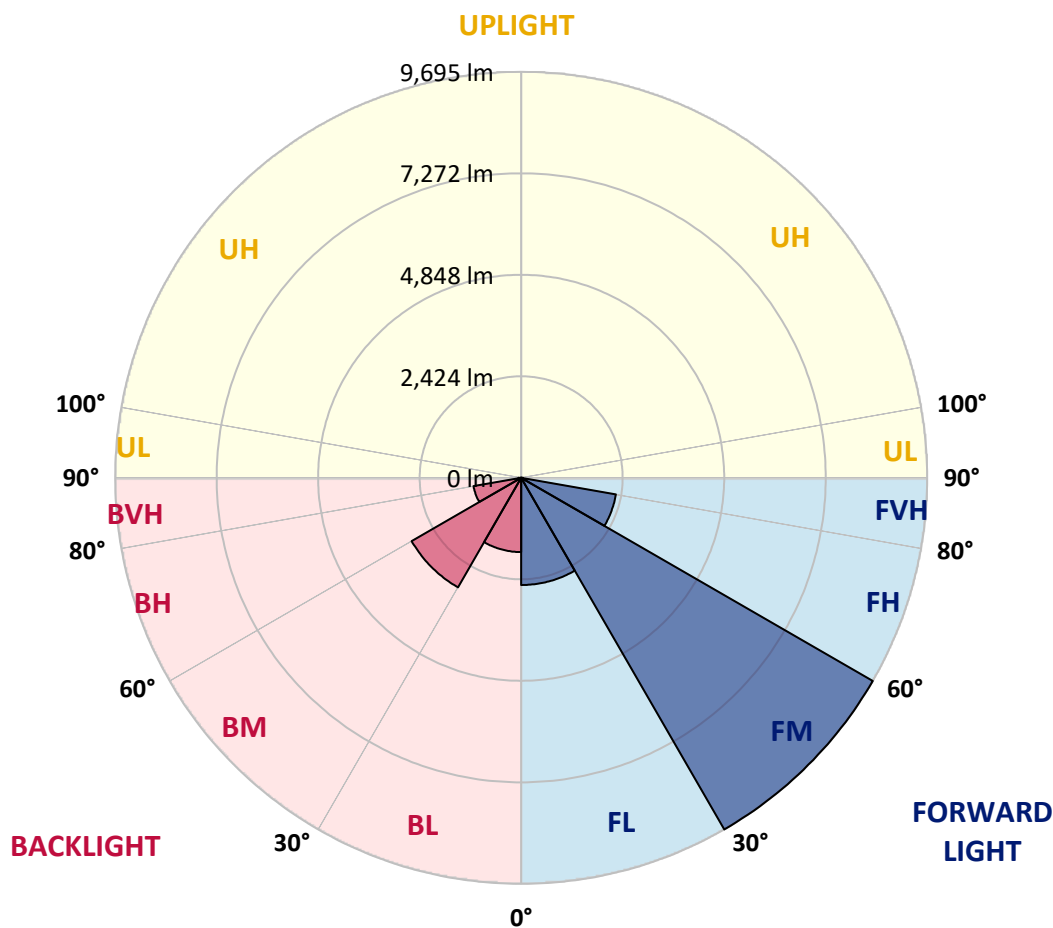
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2560.7	12.4			
FM	(30°-60°)	9695.5	47.0			
FH	(60°-80°)	2297.0	11.1			G2/5000
FVH	(80°-90°)	43.8	0.2			G1/100
BL	(0°-30°)	1774.1	8.6	B3/2500		
BM	(30°-60°)	3020.5	14.7	B3/5000		
BH	(60°-80°)	1155.3	5.6	B3/2500		G3/2500
BVH	(80°-90°)	65.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3
2.5°	6734.6	6676.5	6710.9	6697.6	6806.0	6837.8	6821.9	6835.1	6895.9	6866.9	6806.0
5°	6293.1	6375.0	6390.9	6430.6	6494.0	6618.3	6716.1	6742.6	6771.7	6906.5	6893.3
7.5°	5891.2	5946.7	5917.6	6033.9	6171.4	6372.4	6491.4	6512.5	6779.6	6853.6	6909.2
10°	5637.3	5581.8	5714.0	5745.7	5901.7	6131.8	6274.6	6361.8	6605.1	6898.6	6933.0
12.5°	5402.0	5383.5	5462.8	5552.7	5727.2	5965.2	6110.6	6145.0	6520.5	6829.8	6991.1
15°	5227.5	5206.3	5285.7	5351.8	5555.4	5766.9	5952.0	6049.8	6427.9	6790.2	6940.9
17.5°	5090.0	5087.3	5132.3	5251.3	5460.2	5637.3	5936.1	5941.4	6380.3	6851.0	6983.2
20°	5082.1	5079.4	5087.3	5219.6	5409.9	5626.8	5885.9	5933.5	6380.3	6808.7	6985.8
22.5°	5148.2	5105.9	5153.4	5238.1	5375.6	5645.3	5904.4	6010.2	6533.7	7017.6	7104.8
25°	5253.9	5264.5	5290.9	5320.0	5399.4	5687.6	6068.3	6155.6	6713.5	7197.4	7268.8
27.5°	5446.9	5441.7	5452.2	5468.1	5536.8	5727.2	6134.4	6359.2	7089.0	7517.3	7445.9
30°	5729.9	5711.4	5753.7	5809.2	5745.7	5854.1	6353.9	6523.1	7438.0	7839.9	7644.2
32.5°	5986.4	6055.1	6134.4	6158.2	6081.5	6102.7	6644.7	6816.6	7728.8	8236.5	7887.5
35°	6306.3	6361.8	6467.6	6541.6	6528.4	6464.9	7041.4	7268.8	8149.3	8527.4	8144.0
37.5°	6618.3	6684.4	6858.9	7078.4	6956.8	6927.7	7464.4	7652.2	8278.8	8683.4	8331.7
40°	7120.7	7118.1	7419.5	7533.2	7641.6	7591.4	7903.4	7966.8	8347.6	8649.0	8337.0
42.5°	7710.3	7673.3	7980.0	8157.2	8297.3	8302.6	8360.8	8339.6	8379.3	8474.5	8281.5
45°	8270.9	8350.2	8659.6	8976.9	9117.0	9132.9	8746.8	8707.2	8434.8	8424.3	8175.7
47.5°	8955.7	8974.2	9228.1	9645.9	9971.1	9860.0	9246.6	9159.3	8678.1	8760.1	8352.9
50°	8995.4	9132.9	9360.3	9852.1	10851.6	10822.5	9894.4	9730.5	9069.4	9236.0	8847.3
52.5°	8165.1	8133.4	8403.1	9206.9	10785.5	11779.7	10967.9	10576.6	9910.3	9783.4	9648.5
55°	6221.7	6295.7	6533.7	7345.4	9365.6	11792.9	12430.1	12110.2	10809.3	10592.5	10436.5
56°	5457.5	5468.1	5692.9	6433.2	8545.9	11372.5	12707.8	12448.7	11256.1	10925.6	10687.7
57.5°	4524.1	4463.3	4579.7	4984.2	7213.2	10484.1	12403.7	12657.5	11779.7	11285.2	10954.7
60°	3561.7	3548.4	3500.9	3574.9	4558.5	7898.1	10325.4	10896.5	11726.8	10946.8	10492.0
62.5°	2908.6	2842.5	2937.7	3043.4	3167.7	4899.6	7255.5	7591.4	9310.1	8738.9	7882.2
65°	2255.5	2223.7	2342.7	2686.5	2760.5	3112.2	4132.8	4391.9	5497.2	5399.4	4754.2
67.5°	1552.1	1557.4	1660.5	2184.1	2559.5	2527.8	2530.5	2665.3	2868.9	2131.2	1856.2
70°	983.6	981.0	1036.5	1406.7	2059.8	2080.9	1975.2	1935.5	1835.0	1110.5	1176.6
72.5°	632.0	613.4	642.5	777.4	1065.6	1232.2	1269.2	1293.0	1062.9	872.6	946.6
75°	357.0	338.5	327.9	362.2	420.4	486.5	534.1	550.0	616.1	661.0	700.7
77.5°	108.4	97.8	119.0	158.6	208.9	280.3	341.1	351.7	415.1	468.0	507.7
80°	47.6	52.9	74.0	105.8	148.1	198.3	240.6	256.5	298.8	338.5	349.0
82.5°	29.1	31.7	50.2	71.4	103.1	140.1	171.9	177.2	219.5	251.2	259.1
85°	10.6	13.2	26.4	42.3	66.1	89.9	89.9	97.8	89.9	89.9	97.8
87.5°	0.0	0.0	2.6	5.3	5.3	7.9	10.6	10.6	13.2	15.9	18.5
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°	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3	6819.3
2.5°	6837.8	6824.6	6803.4	6726.7	6718.8	6695.0	6562.8	6541.6	6562.8	6499.3	6504.6
5°	6824.6	6864.2	6705.6	6628.9	6486.1	6383.0	6264.0	6203.2	6094.8	6026.0	6102.7
7.5°	6882.7	6866.9	6668.5	6502.0	6287.8	6026.0	5817.1	5698.1	5507.8	5454.9	5494.5
10°	6861.6	6777.0	6544.3	6324.8	5920.3	5690.2	5351.8	5023.9	4844.1	4751.5	4738.3
12.5°	6832.5	6808.7	6420.0	6041.9	5616.2	5132.3	4656.3	4347.0	4053.5	3926.6	3945.1
15°	6866.9	6665.9	6187.3	5708.7	5142.9	4508.3	3995.3	3596.0	3392.4	3310.5	3310.5
17.5°	6851.0	6597.2	6076.3	5335.9	4619.3	3868.4	3305.2	3064.6	2980.0	2980.0	3003.8
20°	6858.9	6642.1	5851.5	4963.1	4000.6	3257.6	2847.7	2760.5	2797.5	2810.7	2824.0
22.5°	6903.9	6494.0	5632.0	4553.2	3426.8	2786.9	2586.0	2588.6	2654.7	2726.1	2712.9
25°	6959.4	6435.9	5365.0	4146.0	2987.9	2556.9	2493.4	2485.5	2535.7	2572.8	2578.0
27.5°	6911.8	6335.4	5092.6	3638.3	2628.3	2403.5	2390.3	2395.6	2411.5	2485.5	2461.7
30°	7067.8	6364.5	4751.5	3212.6	2430.0	2353.3	2337.4	2329.5	2353.3	2374.4	2355.9
32.5°	7260.8	6261.3	4497.7	2802.8	2332.1	2316.3	2284.5	2274.0	2287.2	2266.0	2276.6
35°	7345.4	6242.8	4167.2	2509.3	2255.5	2242.2	2223.7	2221.1	2223.7	2205.2	2189.4
37.5°	7393.0	6330.1	3789.1	2374.4	2207.9	2221.1	2178.8	2173.5	2125.9	2136.5	2144.4
40°	7475.0	6195.2	3482.3	2244.9	2178.8	2152.3	2115.3	2107.4	2075.7	2057.1	2075.7
42.5°	7356.0	6155.6	3180.9	2189.4	2136.5	2107.4	2080.9	2036.0	2025.4	2009.6	1999.0
45°	7260.8	5928.2	2911.2	2120.6	2086.2	2070.4	2020.1	1972.5	1932.9	1948.7	1924.9
47.5°	7332.2	5848.9	2644.1	2062.4	2017.5	1999.0	1948.7	1911.7	1872.1	1853.5	1848.3
50°	7617.8	5996.9	2419.4	2020.1	1959.3	1948.7	1882.6	1840.3	1803.3	1790.1	1795.4
52.5°	8300.0	6401.5	2266.0	1932.9	1903.8	1856.2	1819.2	1766.3	1742.5	1700.2	1726.6
55°	9164.6	7059.9	2226.4	1850.9	1835.0	1792.7	1742.5	1702.8	1657.9	1623.5	1615.6
56°	9442.3	7374.5	2194.6	1819.2	1792.7	1768.9	1702.8	1679.0	1607.6	1599.7	1594.4
57.5°	9667.0	7652.2	2199.9	1758.4	1731.9	1710.8	1671.1	1612.9	1565.3	1536.3	1549.5
60°	9159.3	7163.0	2099.5	1665.8	1660.5	1620.9	1565.3	1538.9	1480.7	1446.3	1438.4
62.5°	6808.7	4862.6	1702.8	1546.8	1544.2	1501.9	1438.4	1409.3	1398.8	1351.2	1351.2
65°	3921.3	3048.7	1472.8	1449.0	1427.8	1385.5	1322.1	1298.3	1271.8	1256.0	1242.8
67.5°	1673.7	1581.2	1337.9	1335.3	1311.5	1258.6	1195.2	1158.1	1123.8	1092.0	1107.9
70°	1213.7	1232.2	1208.4	1195.2	1166.1	1100.0	1044.4	999.5	946.6	925.5	941.3
72.5°	962.5	1002.1	1036.5	1039.2	1004.8	928.1	867.3	806.5	748.3	719.2	732.4
75°	729.8	756.2	790.6	798.5	748.3	695.4	637.2	573.8	528.8	494.5	499.7
77.5°	526.2	520.9	552.6	547.3	523.5	486.5	433.6	375.5	325.2	293.5	296.1
80°	359.6	367.5	386.0	383.4	354.3	330.5	290.9	243.3	206.2	179.8	174.5
82.5°	251.2	264.4	280.3	267.1	243.3	219.5	190.4	156.0	126.9	105.8	100.5
85°	89.9	103.1	119.0	126.9	134.9	129.6	108.4	87.3	63.5	52.9	50.2
87.5°	18.5	21.2	23.8	23.8	23.8	21.2	18.5	18.5	15.9	7.9	7.9
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)