

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: P457808

Luminaire Tested: **GALN-SA9A-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33574 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 274
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

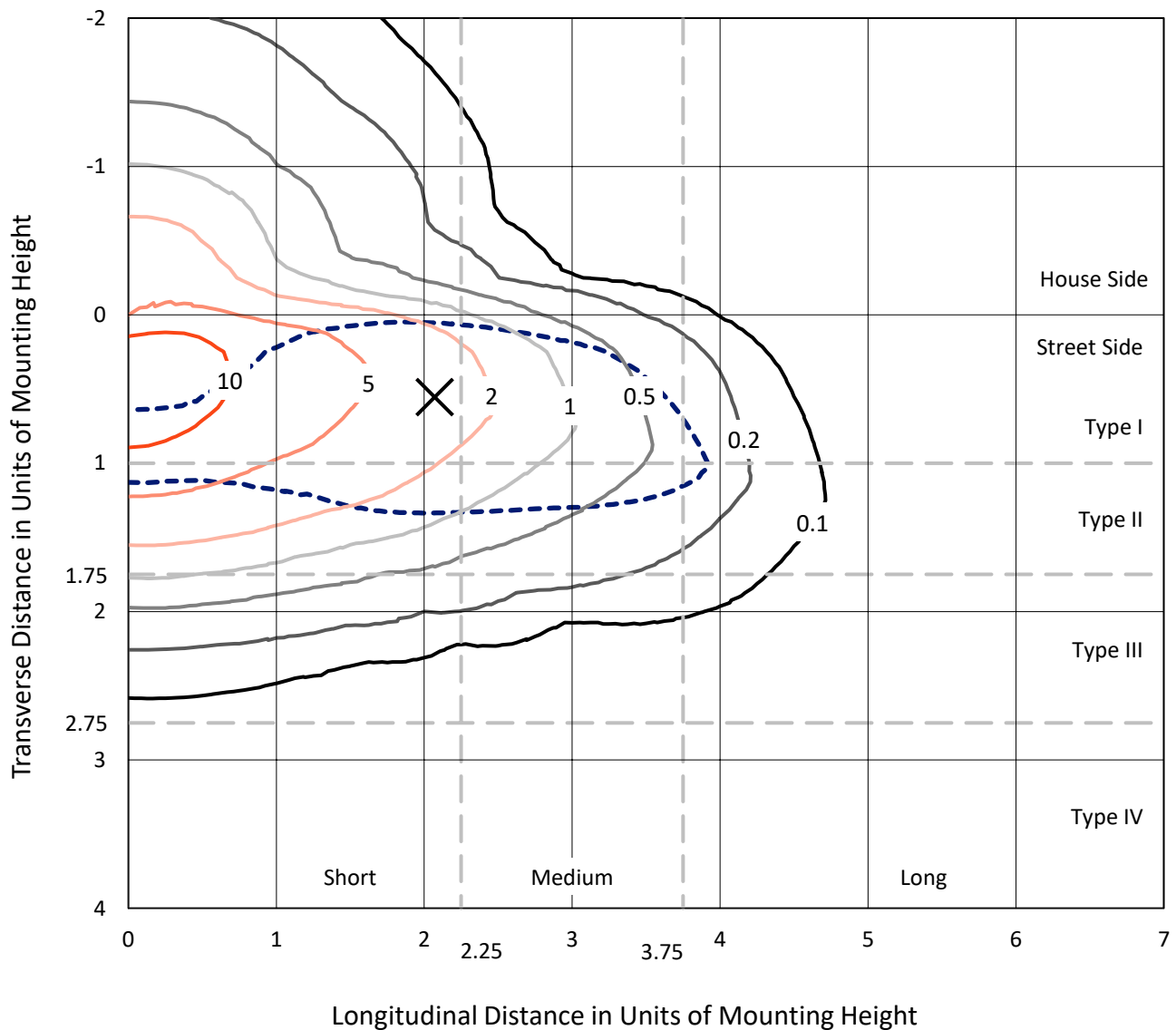


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

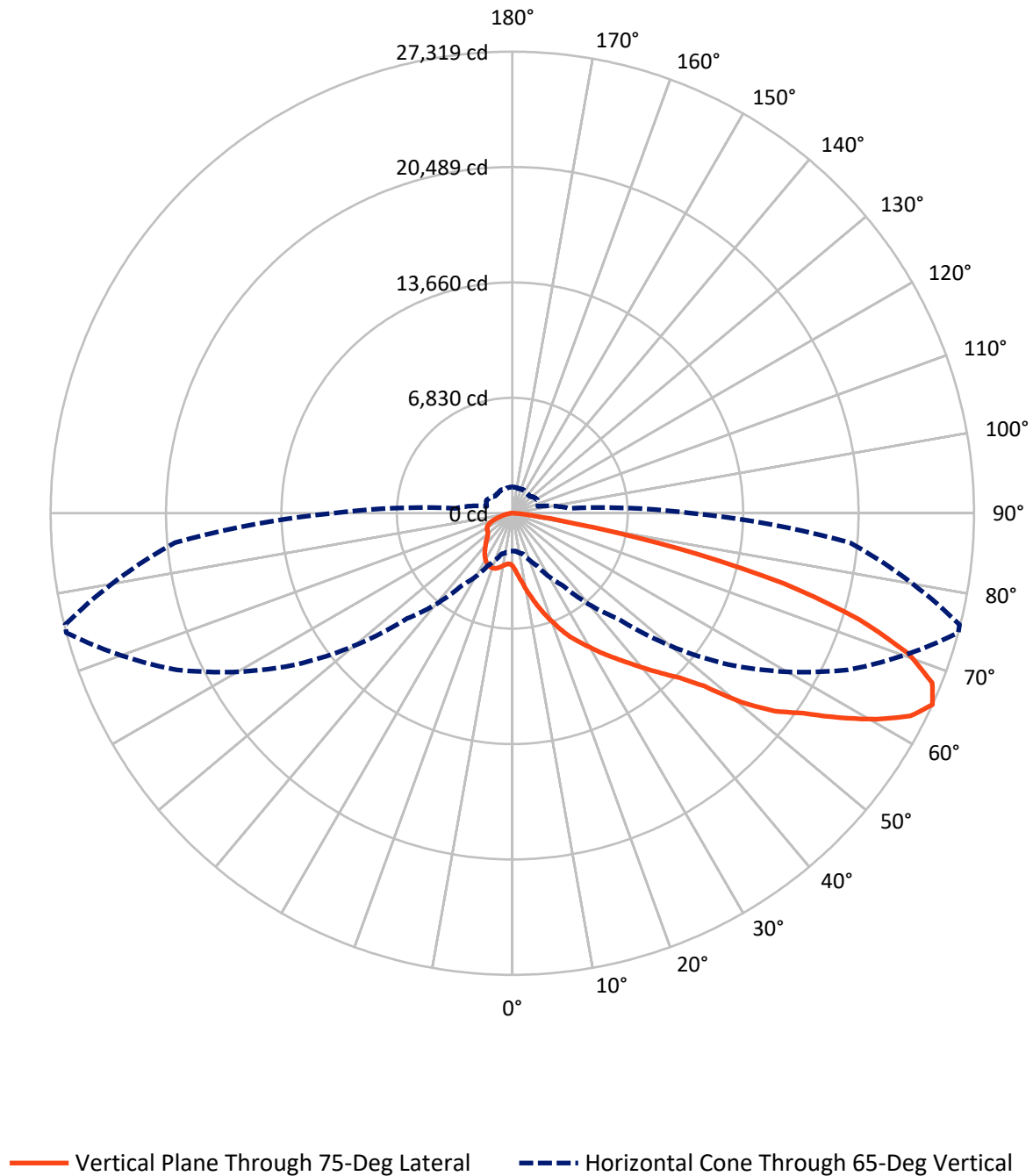


Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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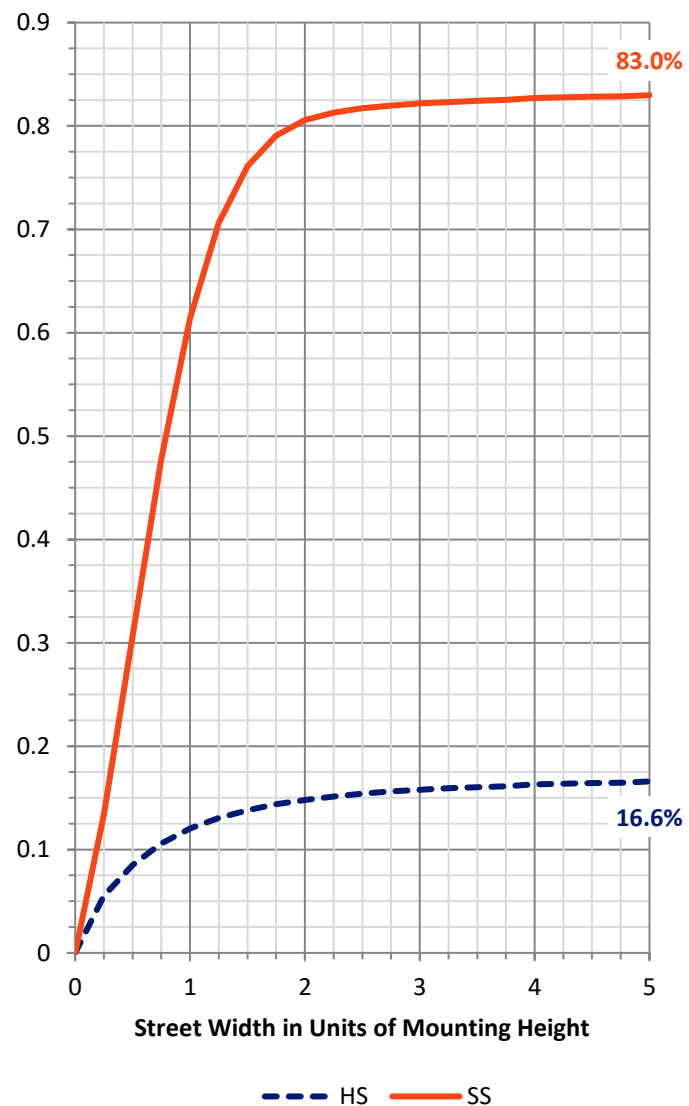
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5644.2	0.0	5644.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	27929.8	0.0	27929.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	33574.0	0.0	33574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.0	1.1
10°-20°	1484.5	4.4
20°-30°	2867.6	8.5
30°-40°	4657.8	13.9
40°-50°	6407.2	19.1
50°-60°	7564.7	22.5
60°-70°	6627.9	19.7
70°-80°	3164.2	9.4
80°-90°	421.0	1.3
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°	33574.0	100.0
0°-180°	33574.0	100.0

Coefficient of Utilization



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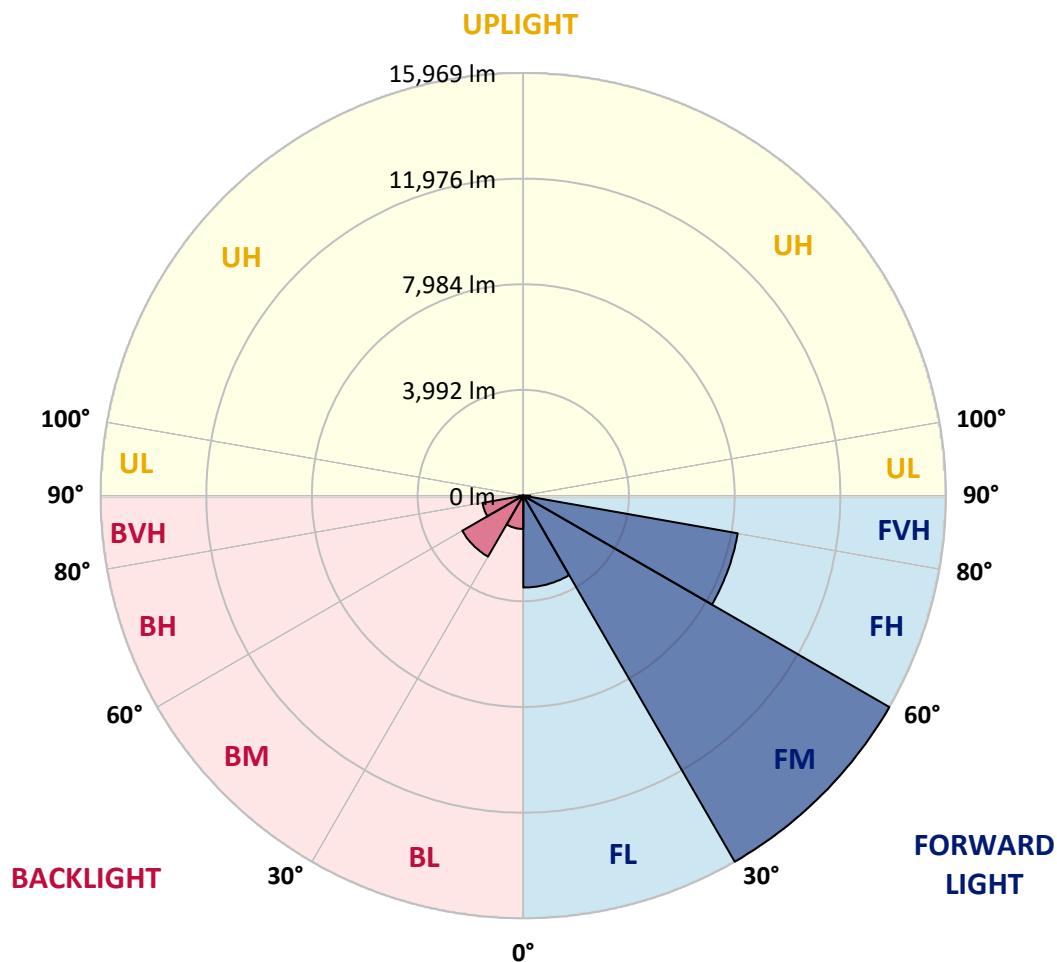
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3471.0	10.3			
FM	(30°-60°)	15968.5	47.6			
FH	(60°-80°)	8227.1	24.5			G4/12000
FVH	(80°-90°)	263.1	0.8			G3/500
BL	(0°-30°)	1260.1	3.8	B3/2500		
BM	(30°-60°)	2661.2	7.9	B3/5000		
BH	(60°-80°)	1565.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	157.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	4144.7	4117.4	4088.2	4008.1	3922.5	3826.0	3687.6	3554.7	3378.0	3372.6	3241.5
5°	5293.8	5275.6	5146.3	5071.6	4873.1	4609.1	4385.1	4037.3	3714.9	3676.7	3421.7
7.5°	6350.0	6279.0	6229.8	6095.0	5898.4	5559.6	5126.2	4656.4	4117.4	4066.4	3643.9
10°	7145.8	7138.5	7113.0	6996.5	6848.9	6512.1	6031.3	5357.5	4627.3	4527.1	3913.4
12.5°	7741.3	7746.7	7743.1	7741.3	7635.6	7349.7	6828.9	6118.7	5142.6	5071.6	4224.8
15°	8132.8	8187.4	8209.3	8300.3	8309.4	8118.2	7670.2	6854.4	5723.5	5617.9	4559.9
17.5°	8391.4	8418.7	8520.7	8675.5	8801.1	8766.5	8367.7	7535.5	6317.2	6140.6	4907.7
20°	8639.0	8686.4	8764.7	8975.9	9198.1	9300.1	9019.6	8232.9	6905.4	6792.5	5292.0
22.5°	9154.4	9221.8	9249.1	9356.5	9545.9	9726.2	9598.7	8901.3	7550.0	7397.1	5699.9
25°	10026.7	10097.7	10021.2	9995.7	10057.6	10146.9	10119.5	9531.3	8158.3	7939.8	6085.9
27.5°	11163.0	11172.1	11022.8	10880.7	10727.8	10682.2	10598.5	10090.4	8686.4	8504.3	6473.8
30°	12383.1	12339.4	12091.7	11835.0	11576.4	11321.4	11081.1	10629.4	9274.6	9065.2	6854.4
32.5°	13515.8	13492.1	13217.1	12818.3	12381.3	12140.9	11654.7	11173.9	9904.7	9702.5	7245.9
35°	14364.4	14399.0	14096.7	13661.5	13184.4	12971.3	12357.6	11745.7	10556.6	10336.2	7672.1
37.5°	14967.2	14949.0	14681.3	14304.3	13885.5	13699.7	13178.9	12370.4	11257.7	11046.5	8138.2
40°	15182.0	15171.1	14972.6	14697.6	14431.8	14366.2	14038.4	13044.1	12060.8	11813.1	8699.1
42.5°	15045.5	15069.1	14938.0	14863.4	14814.2	14861.5	14892.5	13927.3	12936.7	12709.1	9307.4
45°	14626.6	14613.9	14595.7	14717.7	14994.5	15305.9	15737.5	14761.4	13889.1	13707.0	10123.2
47.5°	13878.2	13969.2	14014.8	14351.6	14956.2	15693.8	16709.9	15879.5	15271.3	15112.8	11367.0
50°	12831.1	12903.9	13173.4	13772.6	14674.0	15839.4	17660.5	17707.8	17576.7	17279.9	12718.2
52.5°	11195.8	11308.7	11864.1	12962.2	14094.9	15779.3	18235.9	19275.8	19448.8	19226.6	14049.4
55°	9365.6	9524.1	10110.4	11550.9	13297.3	15451.6	18632.9	20184.5	20874.6	20668.9	15331.4
57.5°	7573.7	7741.3	8344.0	9738.9	11906.0	14726.8	18893.3	21197.0	22815.9	22548.2	16926.6
60°	5676.2	5851.0	6368.2	7805.0	9924.7	13310.0	18716.7	22074.7	24755.3	24640.5	18523.7
62.5°	3662.1	3855.2	4304.9	5494.1	7628.4	11374.2	17771.6	22559.1	26434.3	26295.9	19689.1
65°	2230.8	2252.6	2500.3	3410.8	5220.9	8806.6	15610.0	21916.3	27319.3	27277.4	20044.2
67.5°	1442.3	1476.9	1589.8	2043.2	3130.4	6116.9	12481.4	19794.8	26802.1	26787.6	19310.4
70°	1218.3	1229.2	1280.2	1378.5	1819.2	3709.5	8764.7	16413.1	24837.2	24837.2	17545.8
72.5°	1089.0	1103.6	1121.8	1152.7	1298.4	2101.5	5230.0	12776.4	21444.6	21586.7	14934.4
75°	988.8	985.2	996.1	1001.6	1107.2	1373.1	2704.3	9449.4	16589.7	16305.6	10815.2
77.5°	846.8	852.2	846.8	870.5	977.9	1045.3	1373.1	6340.9	10054.0	9686.1	5428.5
80°	695.6	704.7	713.8	728.4	835.9	794.0	824.9	2890.0	3718.6	3640.3	1677.2
82.5°	522.6	535.4	550.0	584.6	657.4	524.5	520.8	1234.7	1342.1	1229.2	617.3
85°	211.2	249.5	377.0	411.6	413.4	287.7	320.5	515.4	548.1	535.4	242.2
87.5°	49.2	58.3	122.0	183.9	169.4	107.4	118.4	167.5	191.2	176.6	81.9
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°	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4	3119.4
2.5°	3181.4	3117.6	3008.4	2924.6	2864.5	2811.7	2778.9	2758.9	2751.6	2749.8	2751.6
5°	3288.8	3175.9	3002.9	2893.6	2833.5	2798.9	2778.9	2777.1	2778.9	2780.7	2775.3
7.5°	3436.3	3274.2	3048.4	2946.4	2900.9	2875.4	2866.3	2862.7	2864.5	2862.7	2862.7
10°	3633.0	3410.8	3137.7	3032.0	2993.8	2964.7	2950.1	2941.0	2933.7	2926.4	2922.8
12.5°	3849.7	3562.0	3234.2	3132.2	3077.6	3032.0	2999.3	2975.6	2959.2	2942.8	2939.2
15°	4091.9	3722.2	3341.6	3199.6	3121.3	3053.9	2997.4	2959.2	2930.1	2906.4	2904.6
17.5°	4323.2	3873.4	3414.5	3230.5	3115.8	3021.1	2946.4	2893.6	2857.2	2826.3	2822.6
20°	4570.8	4017.2	3447.2	3210.5	3061.2	2946.4	2848.1	2784.4	2742.5	2707.9	2702.4
22.5°	4820.3	4139.2	3443.6	3146.8	2966.5	2831.7	2727.9	2660.5	2611.4	2576.8	2564.0
25°	5058.9	4237.6	3398.1	3044.8	2835.4	2695.1	2589.5	2527.6	2483.9	2442.0	2442.0
27.5°	5273.7	4295.8	3312.5	2921.0	2700.6	2553.1	2469.3	2412.9	2372.8	2345.5	2329.1
30°	5485.0	4323.2	3195.9	2764.3	2558.6	2432.9	2365.5	2332.8	2296.3	2265.4	2261.7
32.5°	5674.4	4317.7	3050.2	2611.4	2423.8	2334.6	2307.3	2281.8	2243.5	2199.8	2188.9
35°	5858.3	4281.3	2877.2	2443.8	2310.9	2276.3	2283.6	2247.2	2178.0	2123.3	2114.2
37.5°	6058.6	4215.7	2687.9	2307.3	2216.2	2249.0	2267.2	2187.1	2074.2	1988.6	1968.5
40°	6289.9	4141.1	2491.2	2170.7	2141.5	2223.5	2223.5	2076.0	1921.2	1868.4	1853.8
42.5°	6561.2	4079.1	2327.3	2056.0	2079.6	2161.6	2152.5	1928.5	1864.7	1837.4	1830.1
45°	6991.0	4057.3	2157.9	1955.8	2028.6	2088.7	2014.1	1877.5	1841.1	1819.2	1811.9
47.5°	7670.2	4082.8	2008.6	1881.1	1970.4	2015.9	1859.3	1842.9	1817.4	1786.4	1782.8
50°	8300.3	4059.1	1903.0	1839.3	1919.4	1928.5	1795.5	1801.0	1786.4	1751.8	1744.6
52.5°	8815.7	3984.4	1835.6	1817.4	1875.7	1775.5	1735.5	1755.5	1750.0	1706.3	1699.0
55°	9382.0	3938.9	1802.8	1817.4	1846.5	1642.6	1679.0	1708.1	1700.9	1669.9	1668.1
57.5°	10068.6	3948.0	1779.2	1822.9	1817.4	1575.2	1622.6	1657.2	1655.3	1646.2	1646.2
60°	10771.5	3951.7	1742.7	1821.0	1782.8	1522.4	1564.3	1613.4	1617.1	1622.6	1622.6
62.5°	11004.6	3793.2	1671.7	1788.3	1706.3	1471.4	1509.6	1577.0	1573.4	1588.0	1589.8
65°	10569.3	3354.4	1566.1	1713.6	1608.0	1435.0	1467.8	1529.7	1509.6	1547.9	1555.2
67.5°	9620.6	2775.3	1402.2	1578.8	1498.7	1396.7	1440.4	1464.1	1427.7	1502.4	1504.2
70°	8314.9	2167.0	1194.6	1387.6	1374.9	1356.7	1418.6	1382.2	1331.2	1422.2	1404.0
72.5°	6952.7	1655.3	954.2	1134.5	1209.2	1296.6	1380.4	1276.6	1205.5	1232.8	1200.1
75°	5222.8	1223.7	766.7	888.7	1007.0	1211.0	1345.8	1149.1	1039.8	1014.3	1007.0
77.5°	2662.4	799.4	573.6	664.7	755.7	1094.4	1298.4	999.8	861.4	821.3	803.1
80°	950.6	497.1	404.3	458.9	509.9	941.5	1134.5	826.8	668.3	661.0	668.3
82.5°	440.7	320.5	271.3	300.5	302.3	628.3	865.0	617.3	508.1	772.1	651.9
85°	189.4	160.3	153.0	149.3	138.4	280.4	486.2	331.4	517.2	231.3	213.1
87.5°	56.5	63.7	56.5	41.9	31.0	31.0	49.2	18.2	12.7	9.1	9.1
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)