

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: P650979

Luminaire Tested: **GALN-SA6C-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650979
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-SA6C-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35731.6 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

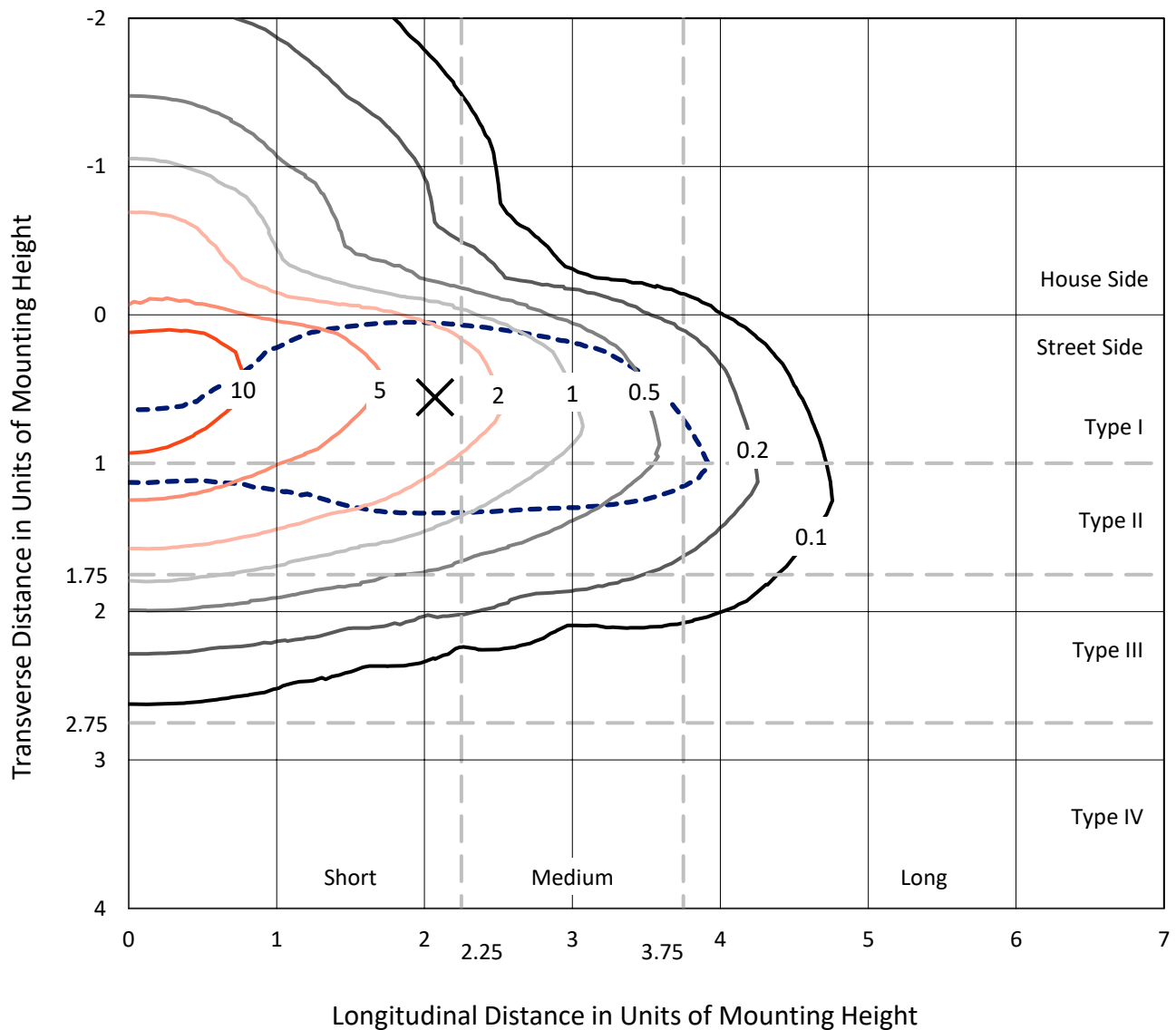
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

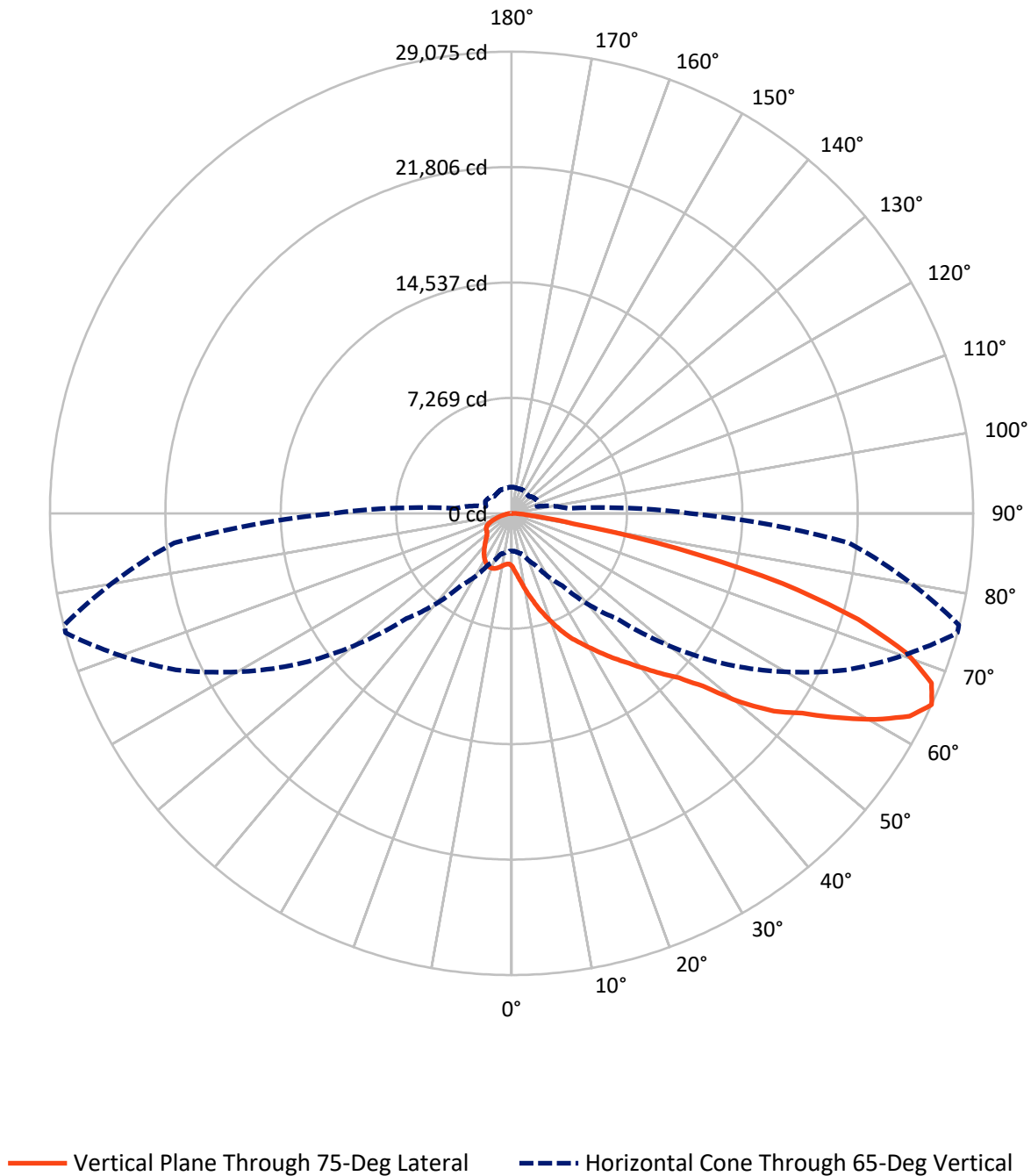
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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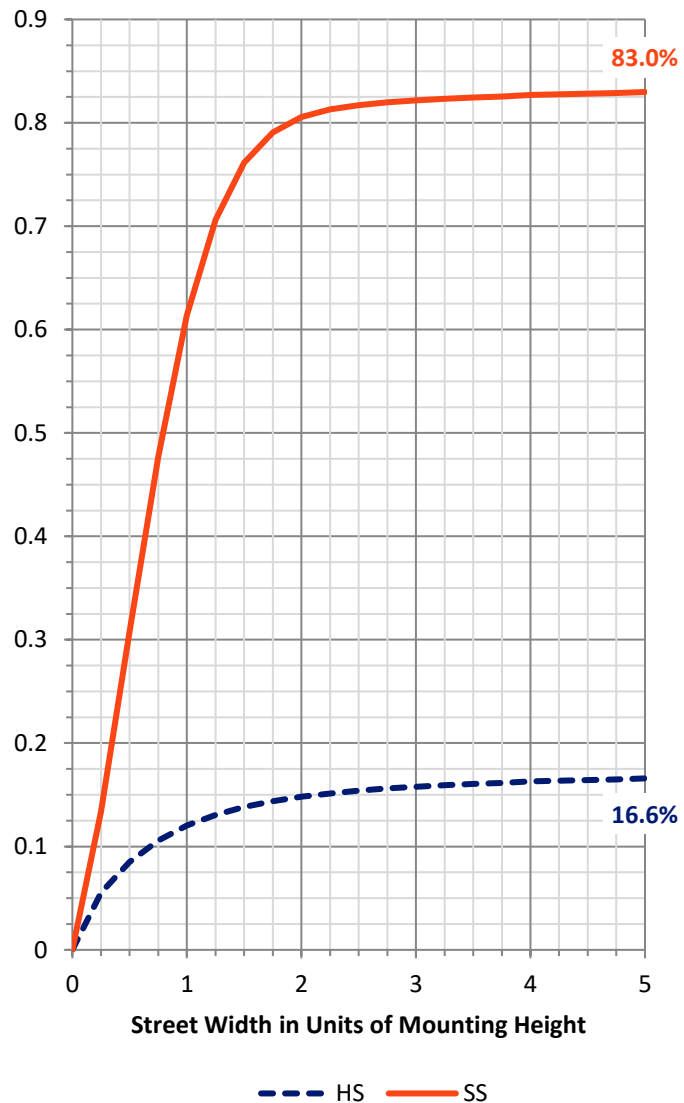
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6006.9	0.0	6006.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29724.6	0.0	29724.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	35731.6	0.0	35731.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.4	1.1
10°-20°	1579.9	4.4
20°-30°	3051.8	8.5
30°-40°	4957.1	13.9
40°-50°	6818.9	19.1
50°-60°	8050.9	22.5
60°-70°	7053.9	19.7
70°-80°	3367.6	9.4
80°-90°	448.1	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°	35731.6	100.0
0°-180°	35731.6	100.0

Coefficient of Utilization



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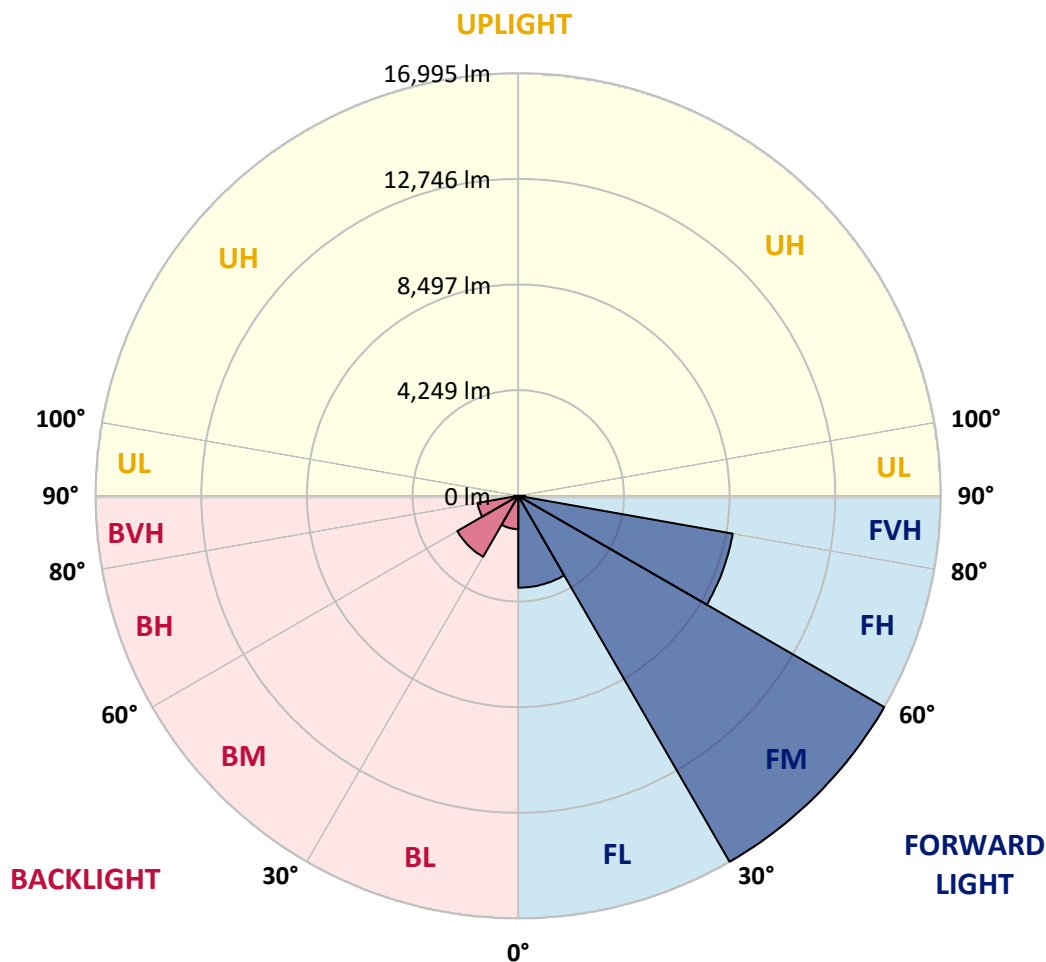
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3694.1	10.3			
FM	(30°-60°)	16994.7	47.6			
FH	(60°-80°)	8755.8	24.5			G4/12000
FVH	(80°-90°)	280.0	0.8			G3/500
BL	(0°-30°)	1341.0	3.8	B3/2500		
BM	(30°-60°)	2832.2	7.9	B3/5000		
BH	(60°-80°)	1665.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	168.1	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°	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9
2.5°	4411.0	4381.9	4351.0	4265.7	4174.6	4071.9	3924.6	3783.2	3595.1	3589.3	3449.8
5°	5633.9	5614.6	5477.0	5397.5	5186.3	4905.2	4666.9	4296.7	3953.6	3913.0	3641.6
7.5°	6758.0	6682.5	6630.1	6486.7	6277.4	5916.9	5455.7	4955.7	4381.9	4327.7	3878.1
10°	7605.0	7597.3	7570.1	7446.0	7289.1	6930.5	6418.8	5701.8	4924.6	4818.0	4164.9
12.5°	8238.8	8244.6	8240.7	8238.8	8126.3	7822.1	7267.8	6511.9	5473.1	5397.5	4496.3
15°	8655.4	8713.6	8736.8	8833.7	8843.5	8639.9	8163.2	7294.9	6091.4	5978.9	4852.9
17.5°	8930.7	8959.7	9068.3	9233.0	9366.7	9329.9	8905.4	8019.7	6723.2	6535.2	5223.1
20°	9194.2	9244.6	9328.0	9552.8	9789.2	9897.7	9599.3	8762.0	7349.2	7229.0	5632.0
22.5°	9742.6	9814.4	9843.5	9957.8	10159.4	10351.2	10215.5	9473.3	8035.3	7872.4	6066.1
25°	10671.0	10746.6	10665.2	10638.1	10704.0	10798.9	10769.8	10143.9	8682.6	8449.9	6477.0
27.5°	11880.4	11890.1	11731.1	11580.0	11417.2	11368.7	11279.6	10738.8	9244.6	9050.8	6889.8
30°	13178.9	13132.4	12868.8	12595.5	12320.3	12049.0	11793.2	11312.5	9870.6	9647.7	7294.9
32.5°	14384.4	14359.1	14066.5	13642.1	13177.0	12921.1	12403.7	11892.0	10541.2	10326.1	7711.5
35°	15287.5	15324.3	15002.6	14539.4	14031.7	13804.8	13151.7	12500.5	11235.0	11000.4	8165.1
37.5°	15929.0	15909.6	15624.7	15223.5	14777.8	14580.1	14025.8	13165.4	11981.1	11756.3	8661.2
40°	16157.7	16146.0	15934.8	15642.2	15359.2	15289.5	14940.6	13882.4	12835.8	12572.3	9258.1
42.5°	16012.3	16037.5	15898.0	15818.5	15766.2	15816.6	15849.6	14822.4	13768.0	13525.8	9905.5
45°	15566.6	15553.0	15533.6	15663.5	15958.1	16289.5	16748.8	15710.0	14781.7	14587.8	10773.7
47.5°	14770.1	14866.9	14915.4	15273.9	15917.4	16702.3	17783.7	16900.0	16252.7	16084.0	12097.4
50°	13655.7	13733.2	14020.0	14657.6	15616.9	16857.3	18795.4	18845.8	18706.3	18390.3	13535.5
52.5°	11915.3	12035.4	12626.5	13795.2	15000.7	16793.3	19407.8	20514.4	20698.6	20462.1	14952.2
55°	9967.5	10136.1	10760.2	12293.1	14151.8	16444.5	19830.4	21481.6	22216.1	21997.1	16316.6
57.5°	8060.4	8238.8	8880.2	10364.8	12671.1	15673.2	20107.5	22559.2	24282.1	23997.2	18014.4
60°	6041.0	6227.0	6777.5	8306.6	10562.5	14165.4	19919.5	23493.3	26346.1	26224.1	19714.0
62.5°	3897.4	4102.9	4581.6	5847.1	8118.6	12105.2	18913.6	24008.8	28133.0	27985.7	20954.4
65°	2374.1	2397.4	2661.0	3630.0	5556.5	9372.5	16613.1	23324.6	29074.9	29030.3	21332.3
67.5°	1535.0	1571.7	1691.9	2174.5	3331.5	6510.0	13283.5	21066.8	28524.5	28509.0	20551.3
70°	1296.6	1308.2	1362.5	1467.1	1936.2	3947.8	9328.0	17467.8	26433.3	26433.3	18673.3
72.5°	1159.0	1174.5	1193.9	1226.8	1381.8	2236.6	5566.2	13597.5	22822.7	22973.8	15894.1
75°	1052.3	1048.5	1060.2	1066.0	1178.3	1461.3	2878.1	10056.7	17655.8	17353.4	11510.2
77.5°	901.2	907.0	901.2	926.4	1040.7	1112.5	1461.3	6748.4	10700.0	10308.6	5777.4
80°	740.3	750.0	759.8	775.2	889.6	845.0	877.9	3075.7	3957.6	3874.2	1784.9
82.5°	556.2	569.8	585.3	622.1	699.6	558.2	554.3	1314.0	1428.4	1308.2	657.0
85°	224.8	265.5	401.2	438.0	439.9	306.2	341.1	548.5	583.3	569.8	257.8
87.5°	52.3	62.0	129.9	195.8	180.2	114.4	126.0	178.3	203.5	188.0	87.2
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°	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9	3319.9
2.5°	3385.8	3318.0	3201.7	3112.5	3048.6	2992.4	2957.5	2936.2	2928.4	2926.5	2928.4
5°	3500.2	3380.0	3195.9	3079.6	3015.7	2978.8	2957.5	2955.5	2957.5	2959.4	2953.6
7.5°	3657.2	3484.7	3244.3	3135.8	3087.3	3060.2	3050.6	3046.6	3048.6	3046.6	3046.6
10°	3866.4	3630.0	3339.3	3226.9	3186.2	3155.2	3139.7	3129.9	3122.2	3114.5	3110.6
12.5°	4097.1	3790.9	3442.0	3333.5	3275.4	3226.9	3192.0	3166.8	3149.4	3131.9	3128.0
15°	4354.9	3961.4	3556.3	3405.2	3321.9	3250.1	3190.1	3149.4	3118.3	3093.2	3091.2
17.5°	4600.9	4122.2	3633.9	3438.2	3316.1	3215.2	3135.8	3079.6	3040.8	3007.9	3004.0
20°	4864.6	4275.4	3668.8	3416.8	3257.9	3135.8	3031.1	2963.3	2918.8	2881.9	2876.1
22.5°	5130.1	4405.2	3664.9	3348.9	3157.1	3013.7	2903.2	2831.5	2779.2	2742.3	2728.8
25°	5384.0	4509.9	3616.5	3240.5	3017.6	2868.3	2756.0	2690.0	2643.5	2598.9	2598.9
27.5°	5612.7	4571.9	3525.4	3108.7	2874.1	2717.2	2628.0	2567.9	2525.3	2496.3	2478.8
30°	5837.5	4600.9	3401.3	2942.0	2723.0	2589.3	2517.5	2482.6	2443.9	2411.0	2407.1
32.5°	6039.1	4595.1	3246.3	2779.2	2579.6	2484.6	2455.6	2428.4	2387.7	2341.2	2329.6
35°	6234.8	4556.4	3062.2	2600.9	2459.4	2422.6	2430.3	2391.6	2318.0	2259.8	2250.1
37.5°	6447.9	4486.7	2860.6	2455.6	2358.7	2393.5	2412.9	2327.6	2207.5	2116.4	2095.0
40°	6694.1	4407.2	2651.3	2310.1	2279.2	2366.4	2366.4	2209.4	2044.6	1988.5	1973.0
42.5°	6982.9	4341.2	2476.8	2188.1	2213.3	2300.5	2290.8	2052.4	1984.6	1955.5	1947.8
45°	7440.2	4318.0	2296.6	2081.5	2159.0	2222.9	2143.5	1998.1	1959.4	1936.2	1928.4
47.5°	8163.2	4345.2	2137.7	2002.0	2097.0	2145.5	1978.8	1961.3	1934.2	1901.2	1897.4
50°	8833.7	4320.0	2025.3	1957.4	2042.7	2052.4	1910.9	1916.7	1901.2	1864.4	1856.7
52.5°	9382.2	4240.5	1953.6	1934.2	1996.2	1889.6	1847.0	1868.3	1862.5	1816.0	1808.2
55°	9984.9	4192.0	1918.7	1934.2	1965.2	1748.1	1786.9	1817.9	1810.2	1777.2	1775.3
57.5°	10715.6	4201.7	1893.5	1940.0	1934.2	1676.4	1726.8	1763.7	1761.7	1752.1	1752.1
60°	11463.7	4205.6	1854.7	1938.1	1897.4	1620.2	1664.8	1717.2	1721.0	1726.8	1726.8
62.5°	11711.8	4037.0	1779.1	1903.2	1816.0	1565.9	1606.6	1678.4	1674.5	1690.0	1691.9
65°	11248.5	3570.0	1666.8	1823.7	1711.4	1527.2	1562.1	1628.0	1606.6	1647.4	1655.1
67.5°	10238.8	2953.6	1492.4	1680.3	1595.0	1486.5	1533.0	1558.2	1519.4	1598.9	1600.8
70°	8849.3	2306.3	1271.3	1476.8	1463.3	1443.8	1509.8	1471.0	1416.7	1513.6	1494.3
72.5°	7399.5	1761.7	1015.5	1207.4	1286.9	1379.9	1469.1	1358.6	1283.0	1312.0	1277.2
75°	5558.4	1302.4	815.9	945.8	1071.8	1288.8	1432.2	1222.9	1106.7	1079.5	1071.8
77.5°	2833.5	850.8	610.5	707.4	804.3	1164.8	1381.8	1064.0	916.7	874.1	854.7
80°	1011.6	529.1	430.3	488.4	542.7	1002.0	1207.4	879.9	711.2	703.5	711.2
82.5°	469.0	341.1	288.8	319.7	321.7	668.6	920.6	657.0	540.8	821.7	693.8
85°	201.6	170.6	162.8	158.9	147.3	298.5	517.5	352.7	550.4	246.2	226.7
87.5°	60.0	67.9	60.0	44.6	33.0	33.0	52.3	19.3	13.5	9.7	9.7
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)