

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: P457110

Luminaire Tested: **GALN-SA8B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36721 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 325
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

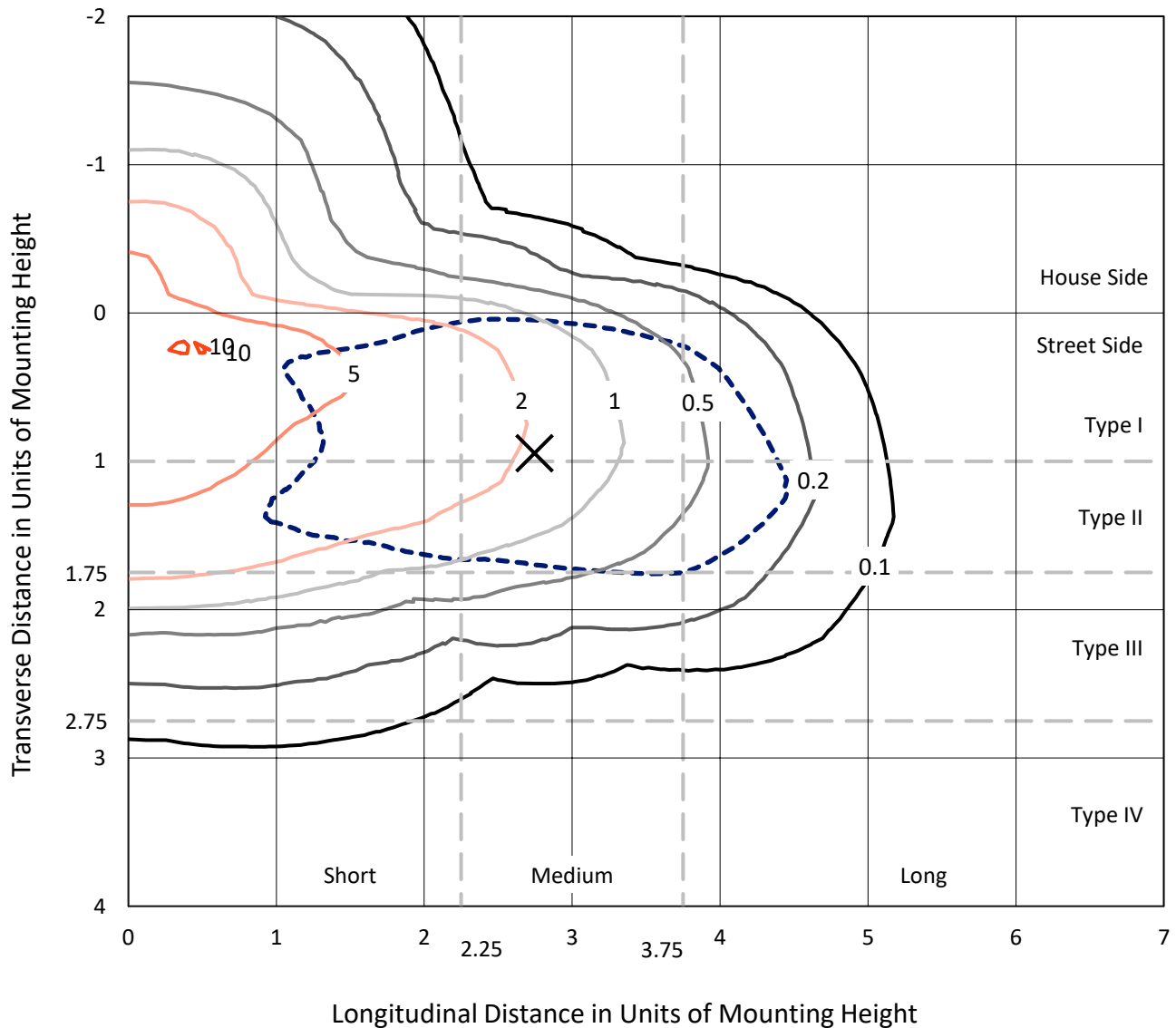


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

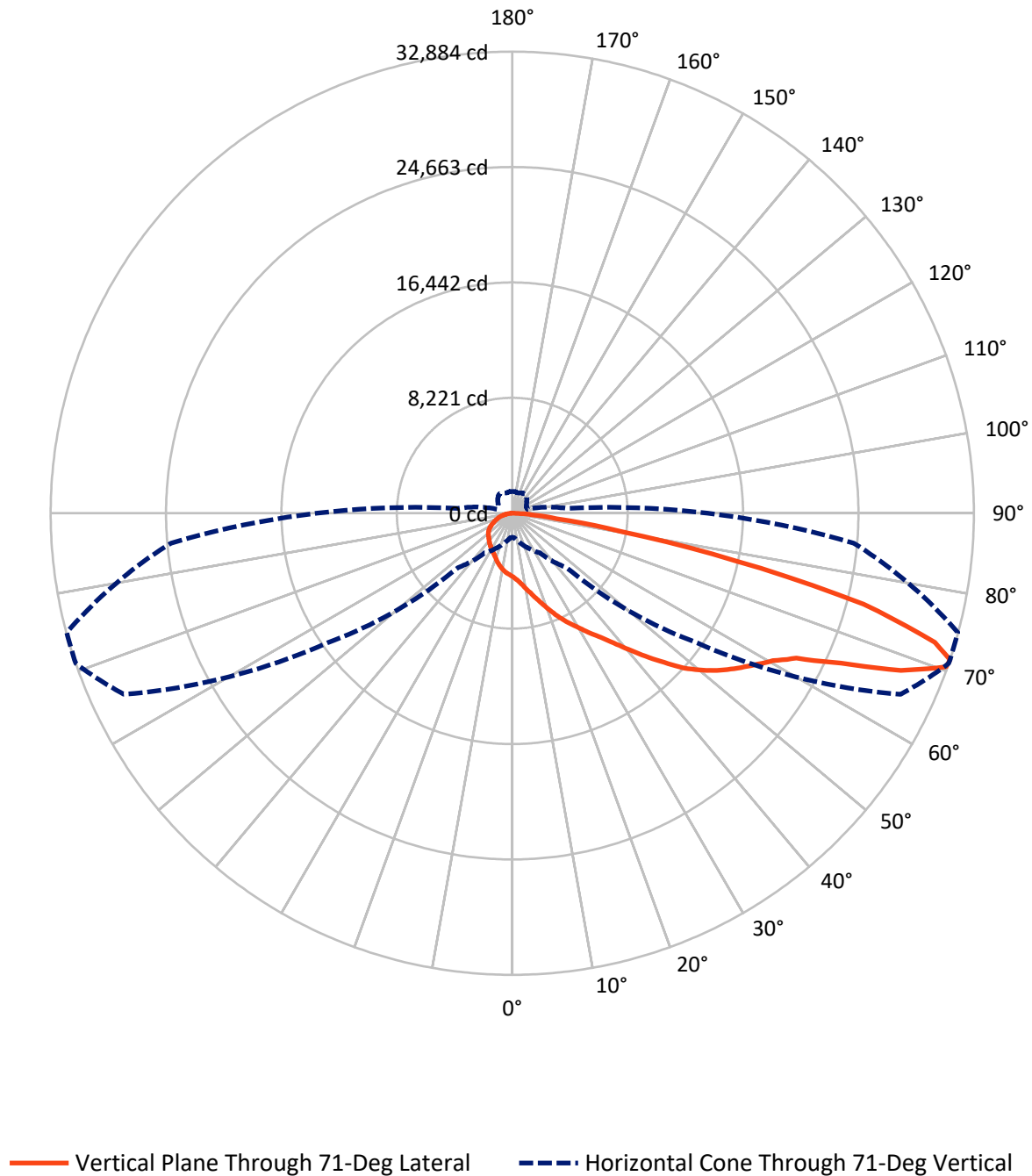


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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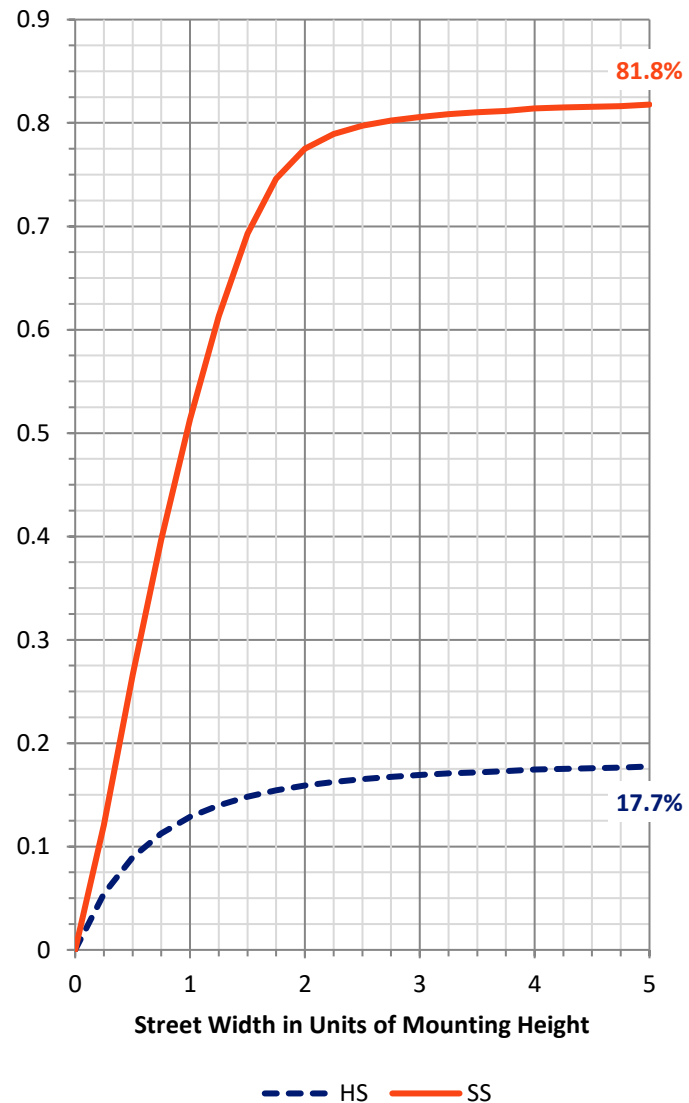
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6604.2	0.0	6604.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	30116.8	0.0	30116.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	36721.0	0.0	36721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	1.2
10°-20°	1470.2	4.0
20°-30°	2569.2	7.0
30°-40°	3821.4	10.4
40°-50°	5630.4	15.3
50°-60°	7882.6	21.5
60°-70°	8816.4	24.0
70°-80°	5385.4	14.7
80°-90°	692.8	1.9
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°	36721.0	100.0
0°-180°	36721.0	100.0

Coefficient of Utilization



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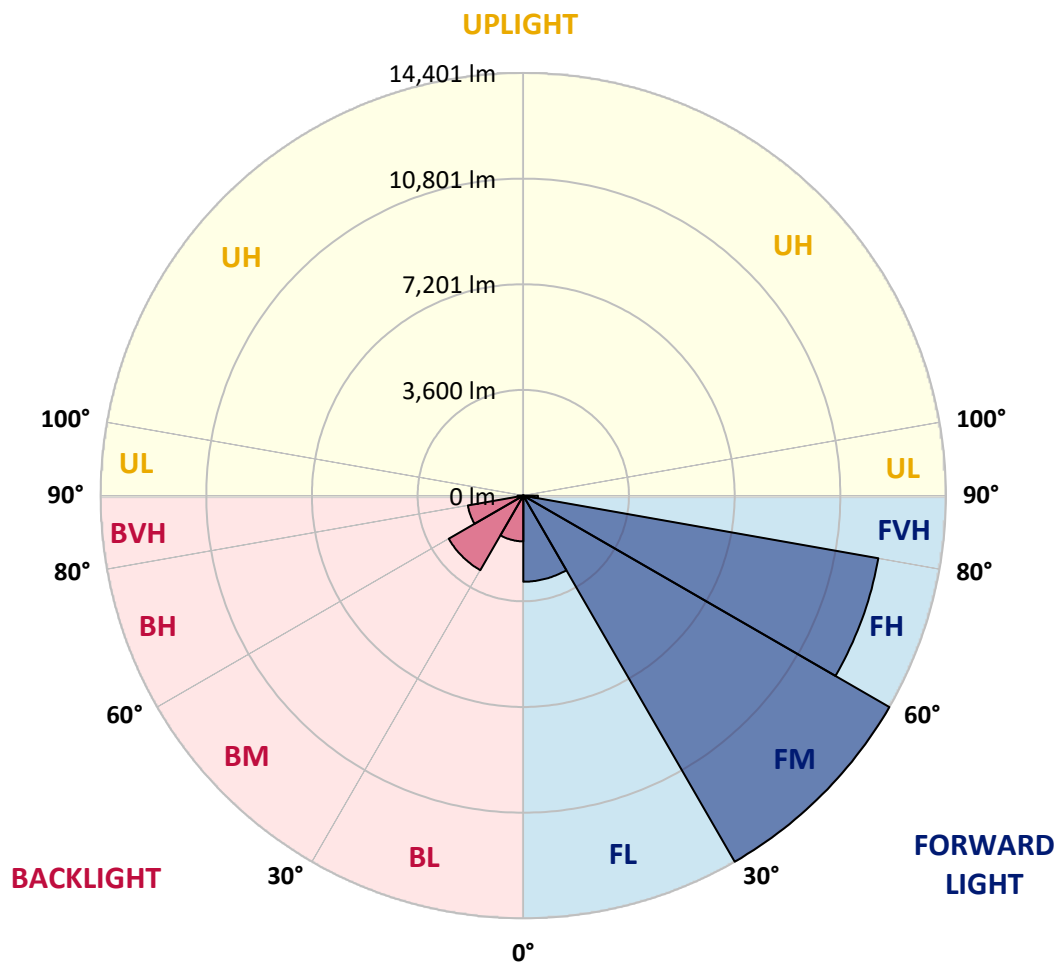
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2934.0	8.0			
FM	(30°-60°)	14401.3	39.2			
FH	(60°-80°)	12283.1	33.4			G5
FVH	(80°-90°)	498.5	1.4			G3/500
BL	(0°-30°)	1557.9	4.2	B3/2500		
BM	(30°-60°)	2933.2	8.0	B3/5000		
BH	(60°-80°)	1918.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	194.3	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8
2.5°	5003.3	4979.1	4981.1	4946.8	4902.4	4853.9	4785.3	4724.8	4676.3	4648.1	4565.3
5°	5544.2	5519.9	5489.7	5415.0	5382.7	5263.6	5112.3	4975.0	4870.1	4811.5	4646.0
7.5°	5982.1	5976.1	5968.0	5925.6	5842.9	5677.4	5548.2	5310.0	5154.6	5043.6	4761.1
10°	6252.6	6262.7	6268.7	6276.8	6242.5	6155.7	5978.1	5677.4	5479.6	5338.3	4910.4
12.5°	6389.8	6399.9	6434.2	6508.9	6555.3	6545.2	6399.9	6105.2	5832.8	5647.1	5069.9
15°	6474.6	6490.7	6551.3	6650.2	6805.6	6904.5	6833.8	6561.4	6262.7	6042.7	5259.6
17.5°	6567.4	6585.6	6652.2	6793.5	6997.3	7211.2	7287.9	7053.8	6728.9	6466.5	5471.5
20°	6619.9	6644.1	6739.0	6924.7	7162.8	7473.6	7727.9	7604.8	7249.6	6959.0	5715.7
22.5°	6704.7	6724.8	6805.6	7003.4	7287.9	7677.5	8167.9	8141.7	7828.8	7453.4	5984.1
25°	6934.7	6967.0	7007.4	7126.5	7401.0	7885.3	8533.2	8714.9	8389.9	7970.1	6230.4
27.5°	7368.7	7394.9	7392.9	7409.0	7564.4	8065.0	8850.1	9282.0	8947.0	8492.8	6468.5
30°	7863.1	7873.2	7881.3	7845.0	7879.3	8248.6	9140.7	9843.1	9508.0	9029.7	6676.4
32.5°	8464.6	8484.8	8416.2	8323.3	8295.1	8521.1	9380.9	10404.1	10172.0	9574.6	6882.3
35°	9175.0	9227.5	9088.2	8924.8	8809.7	8912.6	9703.8	10977.3	10852.2	10270.9	7154.7
37.5°	9986.4	10050.9	9921.8	9600.9	9437.4	9465.6	10125.6	11685.7	11712.0	11064.1	7560.4
40°	10650.4	10735.1	10739.2	10285.1	10036.8	10069.1	10660.5	12448.6	12749.4	12045.0	8038.7
42.5°	11088.3	11171.1	11257.9	10991.5	10731.1	10914.8	11284.1	13276.1	13915.9	13235.8	8706.8
45°	11568.7	11643.4	11691.8	11570.7	11425.4	11901.7	12036.9	14156.1	15159.2	14565.8	9437.4
47.5°	12125.7	12208.5	12254.9	12139.8	12085.4	12767.5	12848.3	14977.5	16487.2	15857.5	10244.7
50°	12868.4	12931.0	12906.8	12834.1	12822.0	13431.5	13627.3	15746.5	17583.1	17248.1	11082.3
52.5°	13792.8	13867.5	13893.7	13790.8	13744.4	13905.8	14255.0	16446.8	18580.1	18442.9	11976.4
55°	14351.9	14470.9	14870.6	15032.0	15143.0	14519.4	14931.1	17219.8	19474.2	19702.3	12937.1
57.5°	13635.4	13788.8	14682.9	15490.2	16533.6	16053.3	15889.8	18027.1	20368.3	20923.3	14087.5
60°	11887.6	11921.9	13074.3	14561.8	16660.8	18025.1	17889.9	19310.7	21337.1	22154.5	15603.2
62.5°	8246.6	8319.3	9681.6	12055.1	15090.5	18735.5	21292.7	21526.8	22725.6	23997.1	17825.3
65°	4252.5	4157.6	5398.9	7576.6	11376.9	17048.3	24049.6	25601.6	25736.9	26879.2	20953.6
67.5°	2617.7	2660.1	3241.3	4424.0	6726.9	12390.1	23761.0	30580.7	29868.3	30417.2	23857.9
70°	1965.8	2018.3	2417.9	3027.4	4101.1	7084.1	19108.9	31787.6	32782.6	32641.3	24741.9
71°	1709.5	1764.0	2179.7	2754.9	3445.2	5467.5	16099.7	30524.2	32883.5	32859.3	24408.9
72.5°	1457.2	1491.5	1816.4	2333.1	2904.3	3832.7	12095.4	27375.7	31480.8	32286.1	23220.1
75°	1144.4	1170.6	1315.9	1780.1	2286.7	2353.3	6490.7	20523.7	25856.0	27389.8	19330.9
77.5°	932.4	950.6	1025.3	1322.0	1764.0	1667.1	3404.8	13358.9	16198.6	17742.5	11387.0
80°	740.7	760.9	805.3	896.1	1322.0	1188.8	1624.7	6769.2	7824.8	7808.7	4545.1
82.5°	575.2	581.3	633.7	658.0	904.2	843.6	880.0	2865.9	3174.7	3279.7	1640.8
85°	363.3	381.5	561.1	504.6	540.9	494.5	433.9	1138.3	1402.7	1382.5	655.9
87.5°	111.0	117.1	189.7	213.9	240.2	216.0	159.4	335.0	409.7	444.0	163.5
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°	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8	4506.8
2.5°	4533.0	4510.8	4432.1	4367.5	4307.0	4240.4	4183.9	4167.7	4153.6	4147.5	4145.5
5°	4575.4	4508.8	4353.4	4226.2	4125.3	4032.5	3974.0	3947.7	3921.5	3921.5	3929.6
7.5°	4635.9	4514.9	4274.7	4085.0	3957.8	3871.0	3828.6	3824.6	3830.7	3836.7	3838.7
10°	4702.5	4510.8	4159.6	3923.5	3810.5	3770.1	3772.1	3806.4	3838.7	3863.0	3867.0
12.5°	4767.1	4486.6	4024.4	3772.1	3699.5	3707.5	3764.1	3840.8	3903.3	3937.6	3939.6
15°	4839.8	4448.2	3860.9	3628.8	3604.6	3667.2	3772.1	3889.2	3984.0	4040.6	4046.6
17.5°	4900.3	4383.7	3689.4	3489.6	3519.8	3634.9	3780.2	3931.6	4046.6	4117.3	4129.4
20°	4969.0	4300.9	3511.8	3356.4	3443.2	3598.6	3764.1	3927.5	4046.6	4115.2	4131.4
22.5°	5023.5	4183.9	3342.2	3247.4	3374.5	3554.2	3709.6	3840.8	3937.6	3974.0	3998.2
25°	5045.7	4036.5	3182.8	3158.6	3320.0	3481.5	3586.5	3661.1	3691.4	3687.4	3697.5
27.5°	5033.5	3867.0	3045.6	3087.9	3251.4	3368.5	3421.0	3414.9	3360.4	3309.9	3334.2
30°	4983.1	3665.2	2930.5	3015.3	3162.6	3227.2	3219.1	3140.4	3037.5	2942.6	2948.7
32.5°	4892.3	3447.2	2823.5	2932.5	3037.5	3065.7	3011.2	2908.3	2761.0	2637.9	2619.7
35°	4815.6	3239.3	2728.7	2837.7	2912.4	2898.2	2845.7	2712.5	2579.3	2470.4	2452.2
37.5°	4803.5	3061.7	2637.9	2730.7	2773.1	2752.9	2688.3	2575.3	2526.9	2444.1	2434.0
40°	4868.0	2936.6	2545.0	2617.7	2637.9	2621.7	2551.1	2486.5	2530.9	2510.7	2510.7
42.5°	5043.6	2870.0	2462.3	2504.7	2520.8	2532.9	2482.5	2428.0	2482.5	2389.6	2359.3
45°	5322.2	2872.0	2387.6	2393.7	2442.1	2484.5	2450.2	2369.4	2341.2	2155.5	2119.2
47.5°	5731.9	2940.6	2327.1	2288.7	2375.5	2446.1	2397.7	2280.6	2155.5	2032.4	2010.2
50°	6210.2	3063.7	2272.6	2179.7	2286.7	2397.7	2361.4	2224.1	2095.0	2020.3	2006.2
52.5°	6741.0	3219.1	2206.0	2058.6	2177.7	2375.5	2369.4	2216.1	2038.4	1988.0	1975.9
55°	7396.9	3372.5	2123.2	1917.3	2080.8	2357.3	2347.2	2149.4	2026.3	1990.0	1986.0
57.5°	8159.8	3594.5	2004.1	1774.1	1969.8	2282.7	2260.5	2109.1	1986.0	1959.7	1957.7
60°	9389.0	3939.6	1834.6	1642.9	1856.8	2151.5	2179.7	2040.5	1921.4	1915.3	1913.3
62.5°	11005.6	4424.0	1659.0	1507.6	1725.6	1981.9	2062.7	1947.6	1852.8	1883.0	1887.1
65°	13237.8	4831.7	1477.4	1392.6	1580.3	1818.5	1951.7	1860.8	1776.1	1834.6	1834.6
67.5°	14692.9	4839.8	1311.9	1273.5	1433.0	1681.2	1834.6	1757.9	1677.2	1776.1	1780.1
70°	14390.2	4240.4	1174.6	1148.4	1289.7	1533.9	1705.4	1644.9	1552.0	1640.8	1608.6
71°	13901.8	3907.4	1120.1	1100.0	1233.2	1463.2	1644.9	1594.4	1501.6	1560.1	1542.0
72.5°	13122.7	3392.7	1031.3	1035.4	1148.4	1374.4	1560.1	1507.6	1414.8	1447.1	1441.0
75°	11092.4	2962.8	882.0	900.1	986.9	1223.1	1390.6	1350.2	1255.4	1255.4	1249.3
77.5°	6934.7	2070.7	732.6	742.7	837.6	1047.5	1194.8	1160.5	1069.7	1039.4	1031.3
80°	2587.4	1069.7	573.2	585.3	643.8	825.5	988.9	956.7	863.8	829.5	797.2
82.5°	978.9	536.9	421.8	411.7	474.3	629.7	775.0	736.7	664.0	581.3	557.0
85°	369.3	266.4	258.3	250.3	278.5	373.4	480.3	472.3	395.6	337.0	331.0
87.5°	96.9	86.8	100.9	74.7	78.7	70.6	72.7	30.3	14.1	6.1	4.0
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)