

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: P455258

Luminaire Tested: **GALN-SA6B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455258
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-SA6B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26589 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): 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

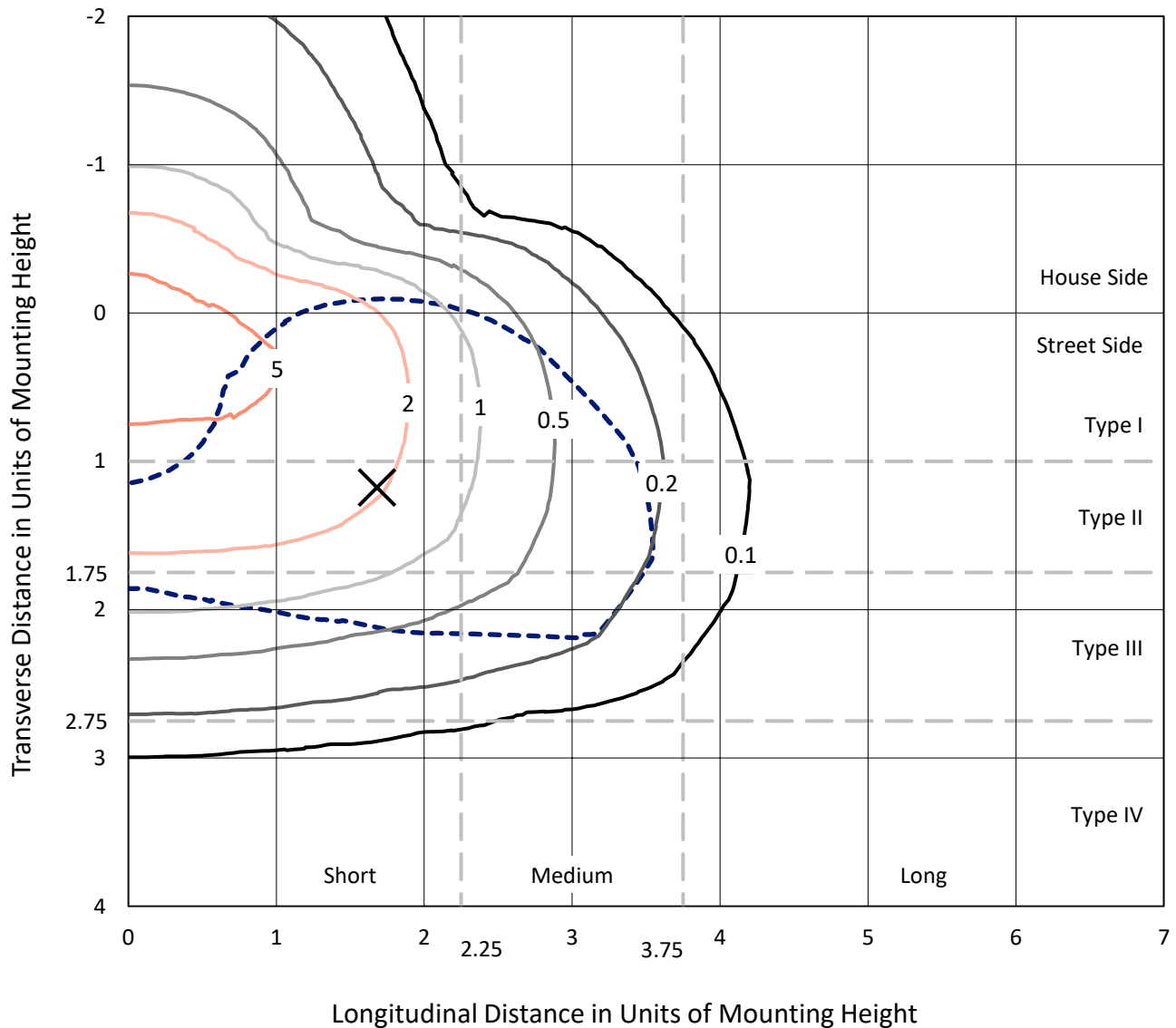


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

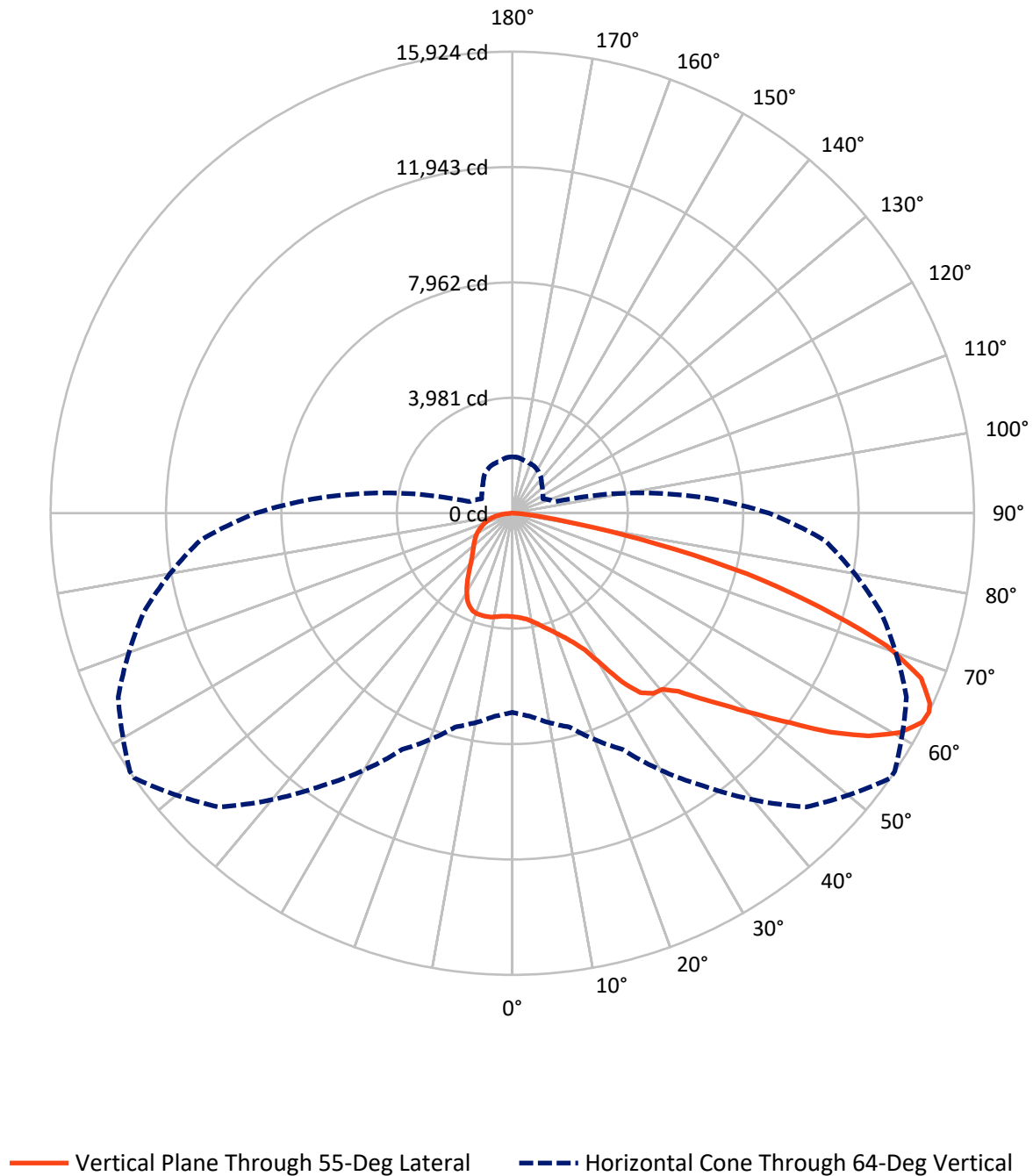


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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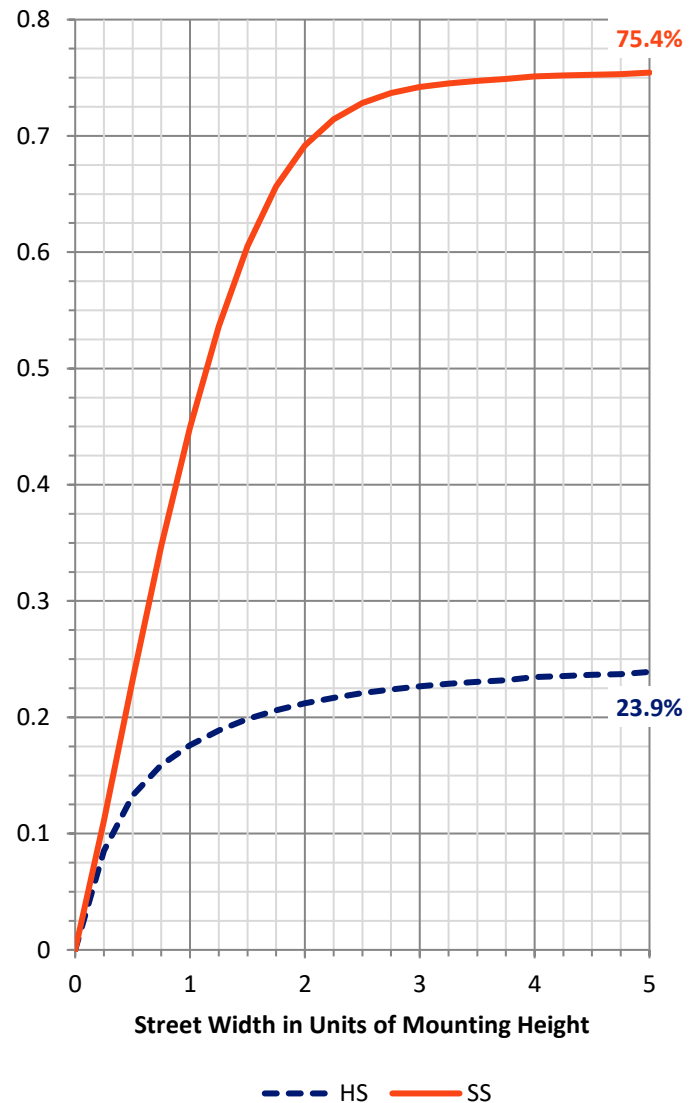
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6459.0	0.0	6459.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	20130.0	0.0	20130.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	26589.0	0.0	26589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	1.3
10°-20°	1094.9	4.1
20°-30°	1949.3	7.3
30°-40°	2999.2	11.3
40°-50°	4251.6	16.0
50°-60°	6154.1	23.1
60°-70°	6368.8	24.0
70°-80°	2982.5	11.2
80°-90°	441.5	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°	26589.0	100.0
0°-180°	26589.0	100.0

Coefficient of Utilization



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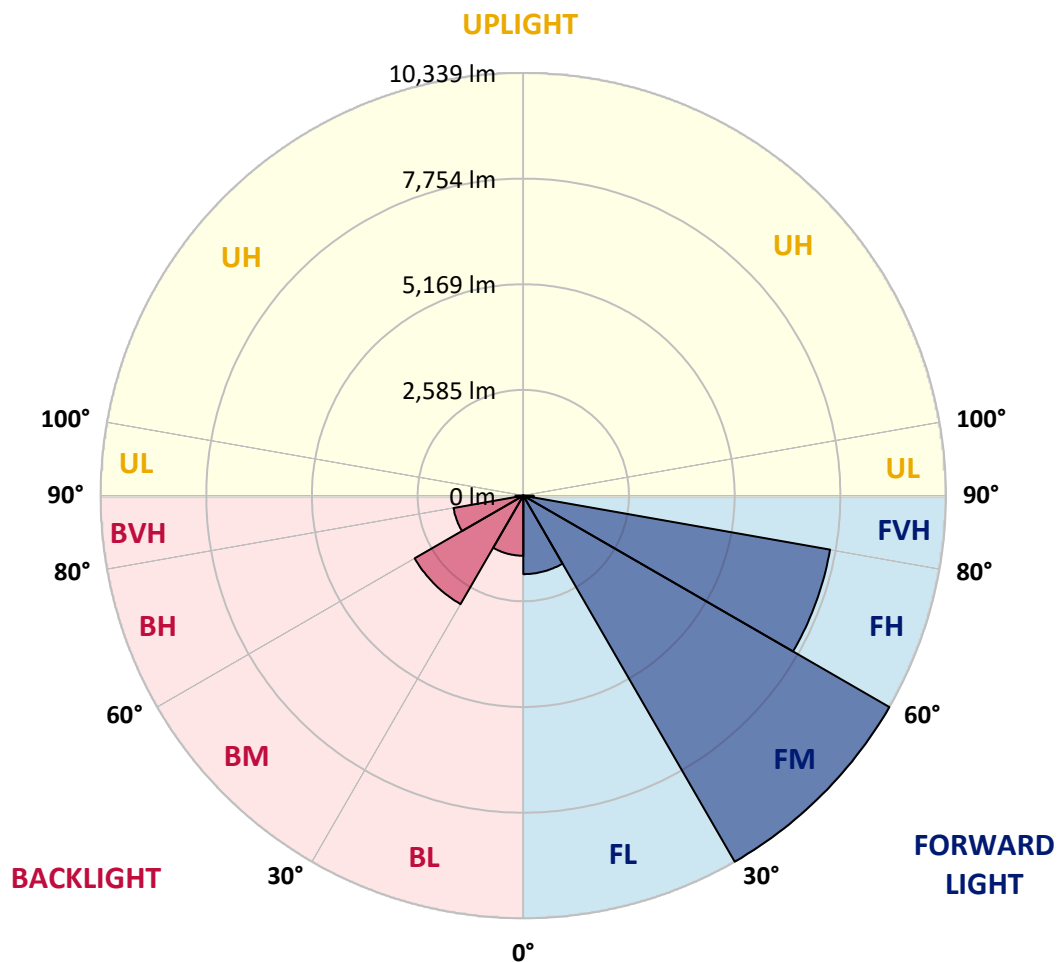
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1920.1	7.2			
FM	(30°-60°)	10338.5	38.9			
FH	(60°-80°)	7618.5	28.7			G4/12000
FVH	(80°-90°)	252.8	1.0			G3/500
BL	(0°-30°)	1471.1	5.5	B3/2500		
BM	(30°-60°)	3066.3	11.5	B3/5000		
BH	(60°-80°)	1732.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	188.7	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4
2.5°	3607.5	3606.0	3610.4	3606.0	3608.9	3598.6	3594.1	3597.1	3592.6	3585.2	3571.9
5°	3651.9	3650.4	3651.9	3646.0	3649.0	3643.0	3632.7	3635.6	3628.2	3611.9	3592.6
7.5°	3727.5	3721.6	3721.6	3720.1	3714.2	3705.3	3697.9	3694.9	3687.5	3666.7	3637.1
10°	3825.3	3825.3	3826.8	3815.0	3822.4	3806.1	3798.7	3797.2	3772.0	3745.3	3703.8
12.5°	3954.3	3961.7	3957.2	3951.3	3948.3	3942.4	3917.2	3923.1	3895.0	3849.0	3798.7
15°	4114.3	4126.2	4118.8	4115.8	4108.4	4086.2	4075.8	4071.4	4034.3	3967.6	3900.9
17.5°	4326.3	4311.5	4305.5	4298.1	4267.0	4250.7	4232.9	4229.9	4197.3	4118.8	4015.0
20°	4511.5	4532.3	4520.4	4513.0	4481.9	4450.8	4437.4	4433.0	4404.8	4318.9	4152.9
22.5°	4732.4	4736.8	4741.3	4723.5	4708.7	4685.0	4661.2	4653.8	4643.5	4554.5	4351.5
25°	4968.0	4985.8	4971.0	4953.2	4935.4	4933.9	4956.2	4953.2	4948.8	4862.8	4615.3
27.5°	5351.9	5368.2	5372.7	5353.4	5285.2	5291.1	5341.5	5357.8	5426.0	5283.7	4954.7
30°	5568.3	5584.6	5621.6	5694.3	5802.5	5897.3	6018.9	6055.9	6121.1	5852.9	5357.8
32.5°	5701.7	5707.6	5774.3	5909.2	6233.8	6588.0	6918.5	6931.8	6973.3	6596.9	5726.9
35°	5912.1	5916.6	5969.9	6118.2	6499.1	7088.9	7600.3	7616.6	7582.5	6828.1	5898.8
37.5°	6171.5	6183.4	6217.5	6340.5	6795.5	7508.4	7883.3	7871.5	7569.1	7011.9	6202.6
40°	6549.4	6549.4	6509.4	6675.4	7108.2	7748.5	7982.7	7961.9	7881.9	7543.9	6665.1
42.5°	6882.9	6877.0	6971.9	7084.5	7499.5	8119.0	8399.1	8433.2	8565.1	8212.4	7191.2
45°	7317.2	7343.9	7397.2	7601.7	8164.9	8751.9	9113.5	9146.1	9332.9	8999.4	7806.3
47.5°	7755.9	7764.8	7932.3	8205.0	8989.0	9610.0	9906.4	9959.8	10130.2	9919.8	8468.8
50°	8067.1	8151.6	8419.9	8849.7	9838.3	10656.4	10887.6	10951.3	11252.2	10921.7	9241.0
52.5°	8396.2	8479.2	8806.7	9461.8	10813.5	11726.5	12011.0	12054.0	12366.7	11935.4	10030.9
55°	8677.8	8754.8	9126.8	10004.2	11590.1	12818.8	13334.6	13284.2	13433.9	12716.5	10640.1
57.5°	8723.7	8786.0	9254.3	10351.1	12174.1	13755.5	14495.0	14524.7	14351.3	13300.5	11142.5
60°	8368.0	8495.5	9033.5	10314.0	12436.4	14407.6	15360.6	15381.3	14889.3	13599.9	11342.6
62.5°	7738.1	7724.8	8375.4	9718.2	12068.8	14555.8	15870.4	15848.2	15099.7	13456.1	11148.4
64°	6868.1	7028.2	7635.8	8986.0	11476.0	14327.6	15923.8	15911.9	14999.0	13156.7	10817.9
65°	6337.5	6328.6	6928.9	8387.3	10886.1	13983.7	15828.9	15812.6	14788.5	12888.4	10561.5
67.5°	4575.3	4596.0	5188.9	6472.4	8849.7	12639.4	15210.9	15150.1	13958.5	11999.2	9586.3
70°	2771.5	2783.4	3248.8	4293.7	6352.3	10217.7	13711.0	13714.0	12688.4	10671.2	8159.0
72.5°	1459.9	1491.0	1677.7	2438.1	3857.9	7169.0	11123.2	11387.1	10893.5	9107.6	6445.7
75°	812.2	816.6	948.6	1202.0	1968.2	4012.1	8360.6	8436.2	8624.4	7330.5	4766.5
77.5°	619.5	628.4	669.9	776.6	1071.6	1860.0	5059.9	5439.3	6078.1	5168.1	2719.7
80°	502.4	511.3	546.9	610.6	712.9	881.9	2350.6	2555.2	3253.2	2294.3	1061.2
82.5°	391.3	385.3	431.3	472.8	518.7	521.7	964.9	1067.1	1325.0	987.1	459.5
85°	290.5	290.5	327.5	318.7	335.0	305.3	425.4	469.8	530.6	419.4	213.4
87.5°	115.6	127.5	214.9	192.7	149.7	120.1	157.1	166.0	183.8	164.5	88.9
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°	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4	3567.4
2.5°	3573.4	3577.8	3567.4	3560.0	3557.1	3552.6	3548.2	3549.7	3555.6	3561.5	3560.0
5°	3591.2	3592.6	3574.9	3566.0	3560.0	3554.1	3554.1	3558.5	3570.4	3579.3	3579.3
7.5°	3635.6	3635.6	3610.4	3594.1	3585.2	3574.9	3571.9	3573.4	3582.3	3594.1	3595.6
10°	3705.3	3699.3	3666.7	3641.5	3625.2	3600.0	3577.8	3566.0	3570.4	3577.8	3577.8
12.5°	3789.8	3773.5	3732.0	3697.9	3657.9	3610.4	3564.5	3540.8	3539.3	3546.7	3543.7
15°	3880.2	3862.4	3804.6	3742.3	3672.7	3603.0	3548.2	3514.1	3487.4	3480.0	3496.3
17.5°	3985.4	3948.3	3868.3	3782.3	3678.6	3588.2	3502.2	3432.6	3385.1	3371.8	3376.2
20°	4112.9	4063.9	3955.8	3820.9	3674.2	3534.8	3401.4	3308.1	3231.0	3207.3	3210.3
22.5°	4289.2	4204.7	4046.2	3840.1	3637.1	3434.1	3248.8	3127.3	3033.9	2996.8	3019.1
25°	4489.3	4397.4	4132.1	3835.7	3540.8	3272.5	3068.0	2909.4	2824.9	2770.1	2781.9
27.5°	4765.0	4602.0	4224.0	3795.7	3402.9	3075.4	2838.2	2688.5	2611.5	2583.3	2596.7
30°	5117.7	4867.3	4323.3	3687.5	3185.1	2826.4	2607.0	2509.2	2463.3	2427.7	2439.6
32.5°	5372.7	5054.0	4345.5	3505.2	2949.4	2599.6	2449.9	2377.3	2326.9	2292.8	2300.2
35°	5555.0	5212.6	4335.2	3281.4	2703.4	2412.9	2325.4	2266.1	2184.6	2110.5	2097.2
37.5°	5799.5	5411.2	4259.6	3036.8	2460.3	2286.9	2224.6	2115.0	1997.9	1898.6	1894.1
40°	6174.5	5643.9	4098.0	2749.3	2252.8	2193.5	2117.9	1975.7	1849.7	1769.6	1763.7
42.5°	6561.3	5858.8	3878.7	2447.0	2082.4	2095.7	2003.8	1863.0	1785.9	1734.1	1728.1
45°	7034.1	6091.5	3641.5	2184.6	1956.4	2003.8	1904.5	1823.0	1777.1	1743.0	1734.1
47.5°	7545.4	6330.1	3374.8	1949.0	1849.7	1919.3	1863.0	1826.0	1800.8	1777.1	1766.7
50°	8096.8	6596.9	3124.3	1759.3	1753.3	1831.9	1858.6	1845.2	1830.4	1823.0	1814.1
52.5°	8701.5	6869.6	2913.8	1625.9	1668.9	1769.6	1860.0	1870.4	1870.4	1866.0	1860.0
55°	9110.5	7059.3	2700.4	1517.7	1582.9	1719.2	1857.1	1897.1	1911.9	1906.0	1900.1
57.5°	9412.9	7163.0	2432.1	1424.3	1510.3	1670.3	1840.8	1900.1	1914.9	1922.3	1919.3
60°	9475.1	7066.7	2080.9	1326.5	1431.7	1599.2	1781.5	1855.6	1874.9	1920.8	1925.3
62.5°	9195.0	6770.3	1731.1	1230.2	1335.4	1491.0	1701.5	1805.2	1843.7	1914.9	1922.3
64°	8851.2	6438.3	1536.9	1169.4	1273.1	1430.2	1661.4	1791.9	1842.3	1937.1	1943.0
65°	8599.2	6196.7	1415.4	1130.9	1233.1	1390.2	1639.2	1796.3	1855.6	1971.2	1980.1
67.5°	7671.4	5365.2	1170.9	1040.4	1138.3	1322.0	1643.7	1833.4	1852.6	1984.5	1983.1
70°	6347.9	4271.4	981.2	957.4	1046.4	1267.2	1625.9	1774.1	1775.6	1863.0	1842.3
72.5°	4753.1	3156.9	850.7	871.5	944.1	1136.8	1535.5	1694.1	1668.9	1680.7	1660.0
75°	3265.1	2088.3	732.2	779.6	837.4	1004.9	1408.0	1538.4	1498.4	1483.6	1468.8
77.5°	1743.0	1154.6	609.1	689.2	727.7	868.5	1228.7	1354.6	1313.2	1255.3	1236.1
80°	705.5	543.9	490.6	570.6	592.8	699.6	1022.7	1101.2	1070.1	969.3	936.7
82.5°	354.2	326.1	385.3	449.1	450.6	499.5	760.3	834.4	764.8	641.8	613.6
85°	185.3	191.2	265.3	315.7	278.6	269.7	456.5	505.4	463.9	403.1	363.1
87.5°	66.7	77.1	139.3	137.8	97.8	51.9	100.8	48.9	26.7	16.3	20.7
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)