

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: P459140

Luminaire Tested: **GALN-SA6B-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459140  
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-SA6B-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31612 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

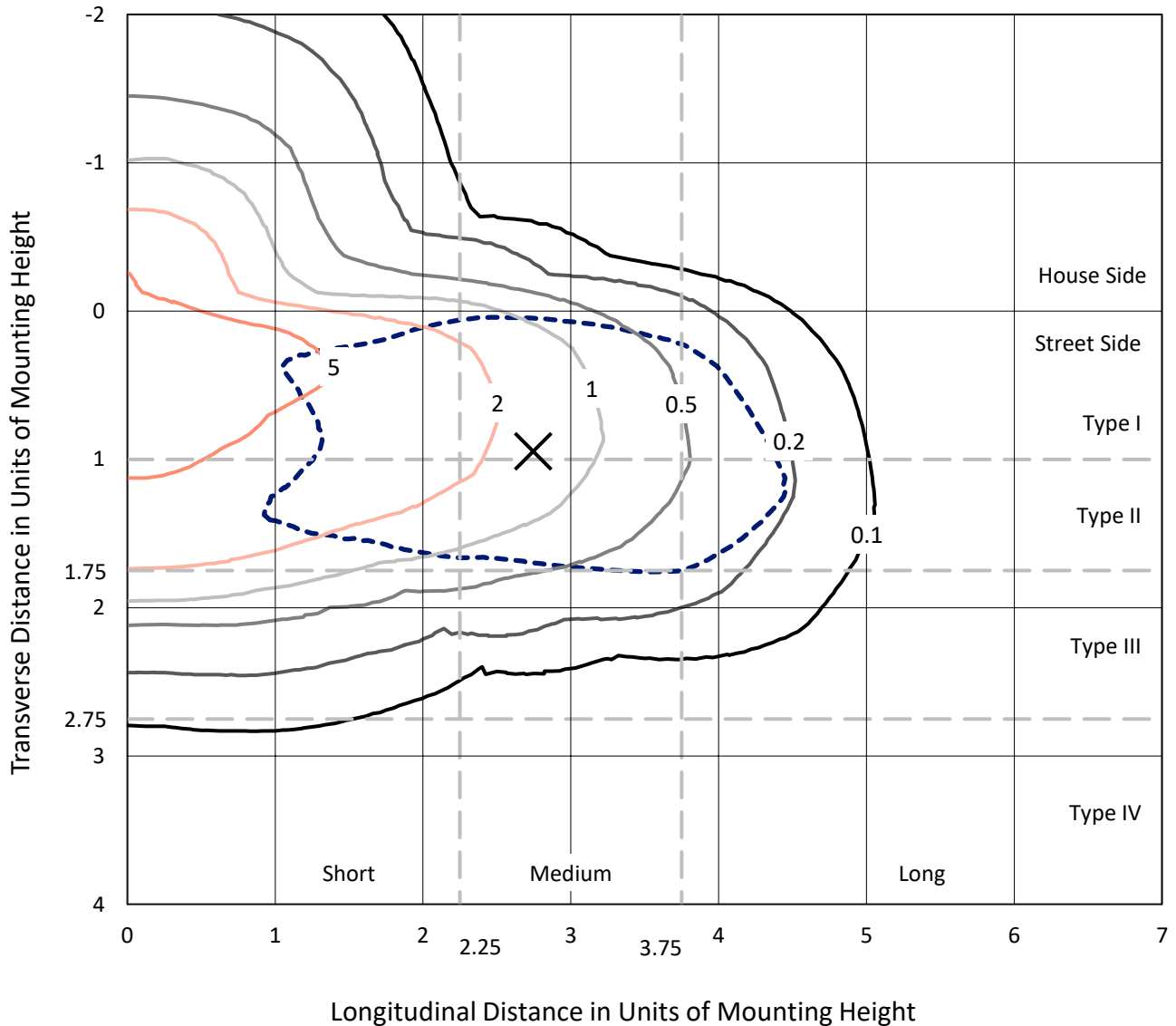
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

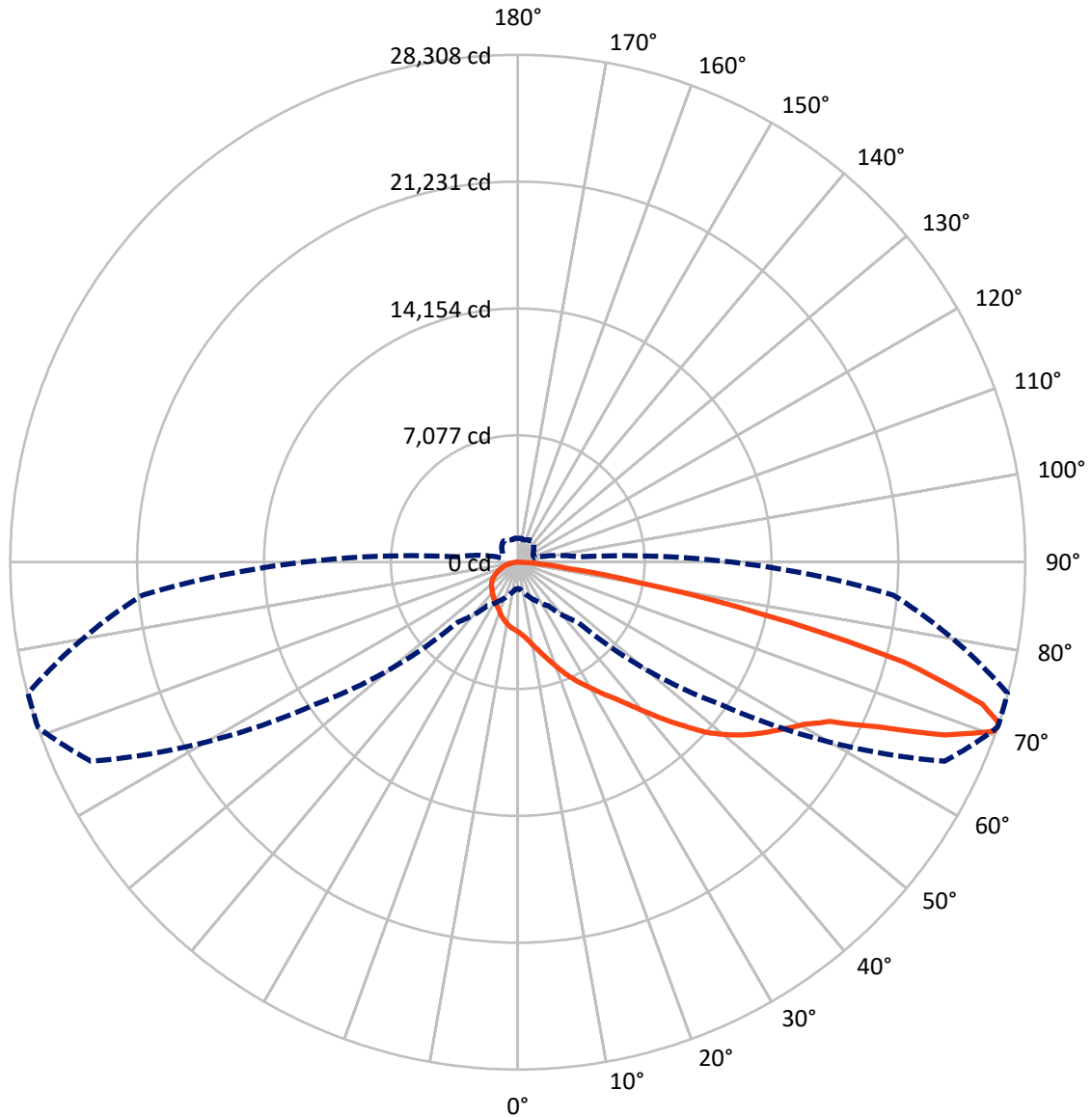
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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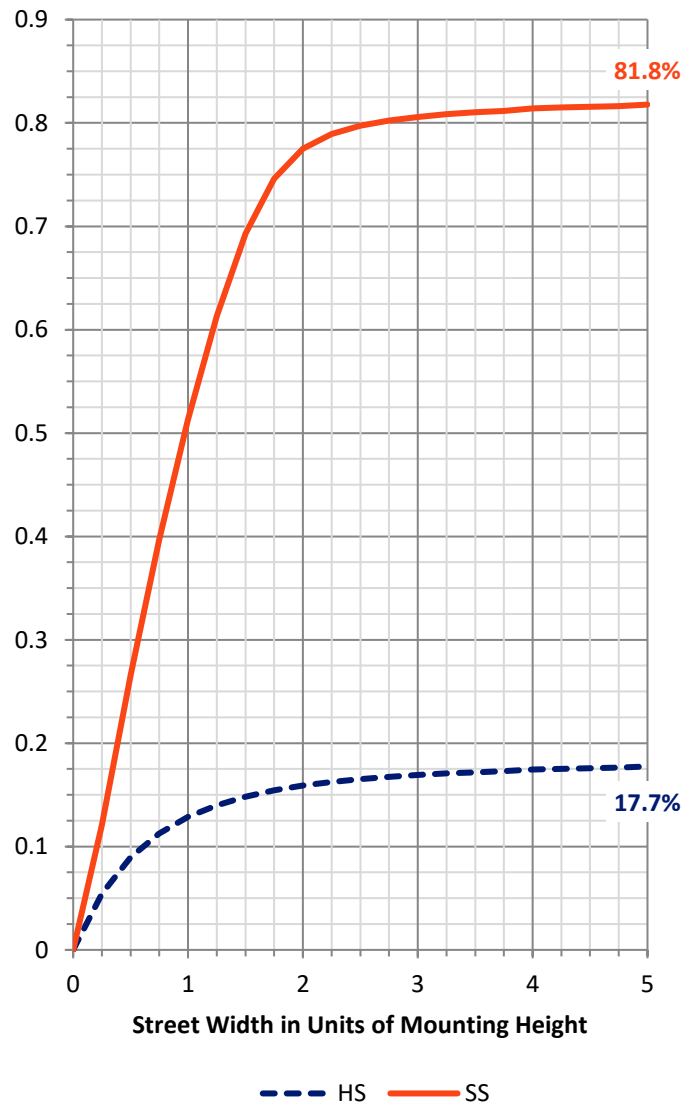
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5685.3	0.0	5685.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	25926.7	0.0	25926.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	31612.0	0.0	31612.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.6	1.2
10°-20°	1265.6	4.0
20°-30°	2211.8	7.0
30°-40°	3289.8	10.4
40°-50°	4847.0	15.3
50°-60°	6785.9	21.5
60°-70°	7589.8	24.0
70°-80°	4636.1	14.7
80°-90°	596.4	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°	31612.0	100.0
0°-180°	31612.0	100.0



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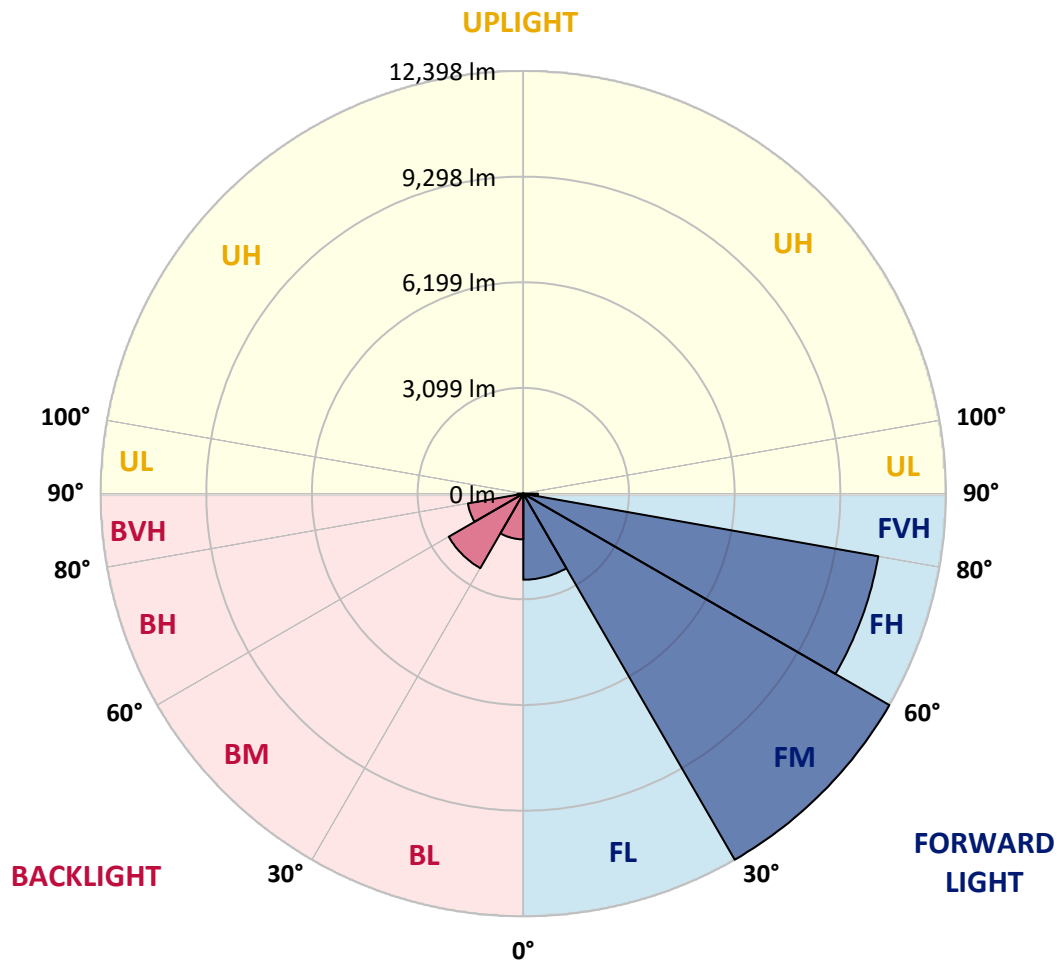
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2525.8	8.0			
FM	(30°-60°)	12397.6	39.2			
FH	(60°-80°)	10574.1	33.4			G4/12000
FVH	(80°-90°)	429.1	1.4			G3/500
BL	(0°-30°)	1341.2	4.2	B3/2500		
BM	(30°-60°)	2525.1	8.0	B3/5000		
BH	(60°-80°)	1651.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	167.3	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
2.5°	4307.2	4286.3	4288.1	4258.5	4220.3	4178.6	4119.5	4067.4	4025.7	4001.4	3930.1
5°	4772.8	4752.0	4725.9	4661.6	4633.8	4531.3	4401.0	4282.8	4192.5	4142.1	3999.6
7.5°	5149.8	5144.6	5137.7	5101.2	5029.9	4887.5	4776.3	4571.3	4437.5	4341.9	4098.7
10°	5382.7	5391.3	5396.6	5403.5	5374.0	5299.3	5146.4	4887.5	4717.2	4595.6	4227.2
12.5°	5500.8	5509.5	5539.0	5603.3	5643.3	5634.6	5509.5	5255.8	5021.3	4861.4	4364.5
15°	5573.8	5587.7	5639.8	5724.9	5858.7	5943.9	5883.0	5648.5	5391.3	5202.0	4527.8
17.5°	5653.7	5669.3	5726.7	5848.3	6023.8	6207.9	6274.0	6072.4	5792.7	5566.8	4710.3
20°	5698.9	5719.7	5801.4	5961.2	6166.2	6433.8	6652.7	6546.8	6241.0	5990.8	4920.5
22.5°	5771.8	5789.2	5858.7	6029.0	6274.0	6609.3	7031.5	7008.9	6739.6	6416.4	5151.6
25°	5969.9	5997.7	6032.5	6135.0	6371.3	6788.3	7346.0	7502.4	7222.6	6861.2	5363.5
27.5°	6343.5	6366.1	6364.3	6378.2	6512.0	6942.9	7618.8	7990.6	7702.2	7311.2	5568.6
30°	6769.1	6777.8	6784.8	6753.5	6783.0	7101.0	7869.0	8473.6	8185.2	7773.4	5747.5
32.5°	7286.9	7304.3	7245.2	7165.3	7141.0	7335.6	8075.7	8956.6	8756.8	8242.5	5924.7
35°	7898.5	7943.7	7823.8	7683.1	7584.0	7672.6	8353.7	9450.0	9342.3	8841.9	6159.3
37.5°	8597.0	8652.6	8541.4	8265.1	8124.4	8148.7	8716.8	10059.9	10082.5	9524.8	6508.5
40°	9168.6	9241.6	9245.0	8854.1	8640.4	8668.2	9177.3	10716.7	10975.5	10369.2	6920.3
42.5°	9545.6	9616.8	9691.6	9462.2	9238.1	9396.2	9714.1	11429.0	11979.8	11394.3	7495.4
45°	9959.1	10023.4	10065.1	9960.9	9835.8	10245.8	10362.2	12186.5	13050.1	12539.3	8124.4
47.5°	10438.7	10509.9	10549.9	10450.8	10403.9	10991.2	11060.7	12893.7	14193.3	13651.2	8819.3
50°	11078.0	11131.9	11111.1	11048.5	11038.1	11562.8	11731.3	13555.7	15136.8	14848.3	9540.4
52.5°	11873.8	11938.1	11960.7	11872.1	11832.1	11971.1	12271.7	14158.6	15995.1	15876.9	10310.1
55°	12355.1	12457.6	12801.6	12940.6	13036.2	12499.3	12853.7	14824.0	16764.8	16961.1	11137.1
57.5°	11738.3	11870.3	12640.0	13335.0	14233.3	13819.8	13679.0	15519.0	17534.5	18012.3	12127.5
60°	10233.6	10263.2	11255.3	12535.8	14342.7	15517.3	15400.9	16624.0	18368.4	19072.1	13432.3
62.5°	7099.3	7161.8	8334.6	10377.9	12991.0	16128.8	18330.2	18531.8	19563.8	20658.4	15345.3
65°	3660.8	3579.2	4647.7	6522.4	9794.1	14676.3	20703.6	22039.7	22156.1	23139.5	18038.3
67.5°	2253.5	2290.0	2790.4	3808.5	5791.0	10666.3	20455.1	26326.0	25712.7	26185.3	20538.5
70°	1692.3	1737.5	2081.5	2606.2	3530.5	6098.5	16450.3	27365.0	28221.6	28099.9	21299.5
71°	1471.6	1518.5	1876.5	2371.6	2965.8	4706.8	13859.7	26277.4	28308.4	28287.6	21012.8
72.5°	1254.4	1284.0	1563.7	2008.5	2500.2	3299.4	10412.6	23566.9	27100.9	27794.2	19989.5
75°	985.1	1007.7	1132.8	1532.4	1968.5	2025.9	5587.7	17668.2	22258.6	23579.1	16641.4
77.5°	802.7	818.3	882.6	1138.0	1518.5	1435.1	2931.1	11500.3	13944.9	15274.0	9802.8
80°	637.6	655.0	693.2	771.4	1138.0	1023.4	1398.7	5827.4	6736.1	6722.2	3912.8
82.5°	495.2	500.4	545.6	566.4	778.4	726.3	757.5	2467.2	2733.0	2823.4	1412.6
85°	312.7	328.4	483.0	434.4	465.6	425.7	373.6	979.9	1207.5	1190.2	564.7
87.5°	95.6	100.8	163.3	184.2	206.8	185.9	137.3	288.4	352.7	382.2	140.7
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°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
2.5°	3902.3	3883.2	3815.5	3759.9	3707.7	3650.4	3601.8	3587.9	3575.7	3570.5	3568.7
5°	3938.8	3881.5	3747.7	3638.2	3551.4	3471.4	3421.1	3398.5	3375.9	3375.9	3382.8
7.5°	3990.9	3886.7	3679.9	3516.6	3407.2	3332.4	3296.0	3292.5	3297.7	3302.9	3304.6
10°	4048.3	3883.2	3580.9	3377.6	3280.3	3245.6	3247.3	3276.9	3304.6	3325.5	3329.0
12.5°	4103.9	3862.4	3464.5	3247.3	3184.8	3191.7	3240.4	3306.4	3360.2	3389.8	3391.5
15°	4166.4	3829.4	3323.8	3124.0	3103.1	3157.0	3247.3	3348.1	3429.7	3478.4	3483.6
17.5°	4218.6	3773.8	3176.1	3004.1	3030.1	3129.2	3254.3	3384.6	3483.6	3544.4	3554.8
20°	4277.6	3702.5	3023.2	2889.4	2964.1	3097.9	3240.4	3381.1	3483.6	3542.7	3556.6
22.5°	4324.5	3601.8	2877.2	2795.6	2905.0	3059.7	3193.5	3306.4	3389.8	3421.1	3441.9
25°	4343.7	3474.9	2740.0	2719.1	2858.1	2997.1	3087.5	3151.8	3177.8	3174.3	3183.0
27.5°	4333.2	3329.0	2621.8	2658.3	2799.0	2899.8	2945.0	2939.8	2892.9	2849.4	2870.3
30°	4289.8	3155.2	2522.8	2595.8	2722.6	2778.2	2771.2	2703.5	2614.9	2533.2	2538.4
32.5°	4211.6	2967.6	2430.7	2524.5	2614.9	2639.2	2592.3	2503.7	2376.8	2270.9	2255.2
35°	4145.6	2788.6	2349.0	2442.9	2507.2	2495.0	2449.8	2335.1	2220.5	2126.7	2111.0
37.5°	4135.2	2635.7	2270.9	2350.8	2387.3	2369.9	2314.3	2217.0	2175.3	2104.1	2095.4
40°	4190.8	2528.0	2190.9	2253.5	2270.9	2257.0	2196.2	2140.6	2178.8	2161.4	2161.4
42.5°	4341.9	2470.7	2119.7	2156.2	2170.1	2180.5	2137.1	2090.2	2137.1	2057.2	2031.1
45°	4581.7	2472.4	2055.4	2060.6	2102.3	2138.8	2109.3	2039.8	2015.5	1855.6	1824.3
47.5°	4934.4	2531.5	2003.3	1970.3	2045.0	2105.8	2064.1	1963.3	1855.6	1749.6	1730.5
50°	5346.2	2637.5	1956.4	1876.5	1968.5	2064.1	2032.8	1914.7	1803.5	1739.2	1727.0
52.5°	5803.1	2771.2	1899.0	1772.2	1874.7	2045.0	2039.8	1907.7	1754.8	1711.4	1701.0
55°	6367.8	2903.3	1827.8	1650.6	1791.3	2029.4	2020.7	1850.4	1744.4	1713.1	1709.7
57.5°	7024.6	3094.4	1725.3	1527.2	1695.8	1965.1	1946.0	1815.6	1709.7	1687.1	1685.3
60°	8082.7	3391.5	1579.4	1414.3	1598.5	1852.1	1876.5	1756.6	1654.1	1648.9	1647.1
62.5°	9474.4	3808.5	1428.2	1297.9	1485.5	1706.2	1775.7	1676.6	1595.0	1621.1	1624.5
65°	11396.0	4159.5	1271.8	1198.8	1360.4	1565.5	1680.1	1601.9	1529.0	1579.4	1579.4
67.5°	12648.7	4166.4	1129.3	1096.3	1233.6	1447.3	1579.4	1513.3	1443.8	1529.0	1532.4
70°	12388.1	3650.4	1011.2	988.6	1110.2	1320.5	1468.2	1416.0	1336.1	1412.6	1384.8
71°	11967.6	3363.7	964.3	946.9	1061.6	1259.7	1416.0	1372.6	1292.7	1343.1	1327.4
72.5°	11297.0	2920.7	887.8	891.3	988.6	1183.2	1343.1	1297.9	1218.0	1245.8	1240.5
75°	9549.1	2550.6	759.3	774.9	849.6	1052.9	1197.1	1162.4	1080.7	1080.7	1075.5
77.5°	5969.9	1782.6	630.7	639.4	721.0	901.7	1028.6	999.0	920.9	894.8	887.8
80°	2227.4	920.9	493.4	503.9	554.2	710.6	851.4	823.6	743.6	714.1	686.3
82.5°	842.7	462.2	363.1	354.4	408.3	542.1	667.2	634.2	571.6	500.4	479.5
85°	318.0	229.3	222.4	215.4	239.8	321.4	413.5	406.6	340.5	290.2	284.9
87.5°	83.4	74.7	86.9	64.3	67.8	60.8	62.5	26.1	12.2	5.2	3.5
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)