

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: P458678

Luminaire Tested: **GALN-SA2B-735-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458678  
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-SA2B-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10863 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82  
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

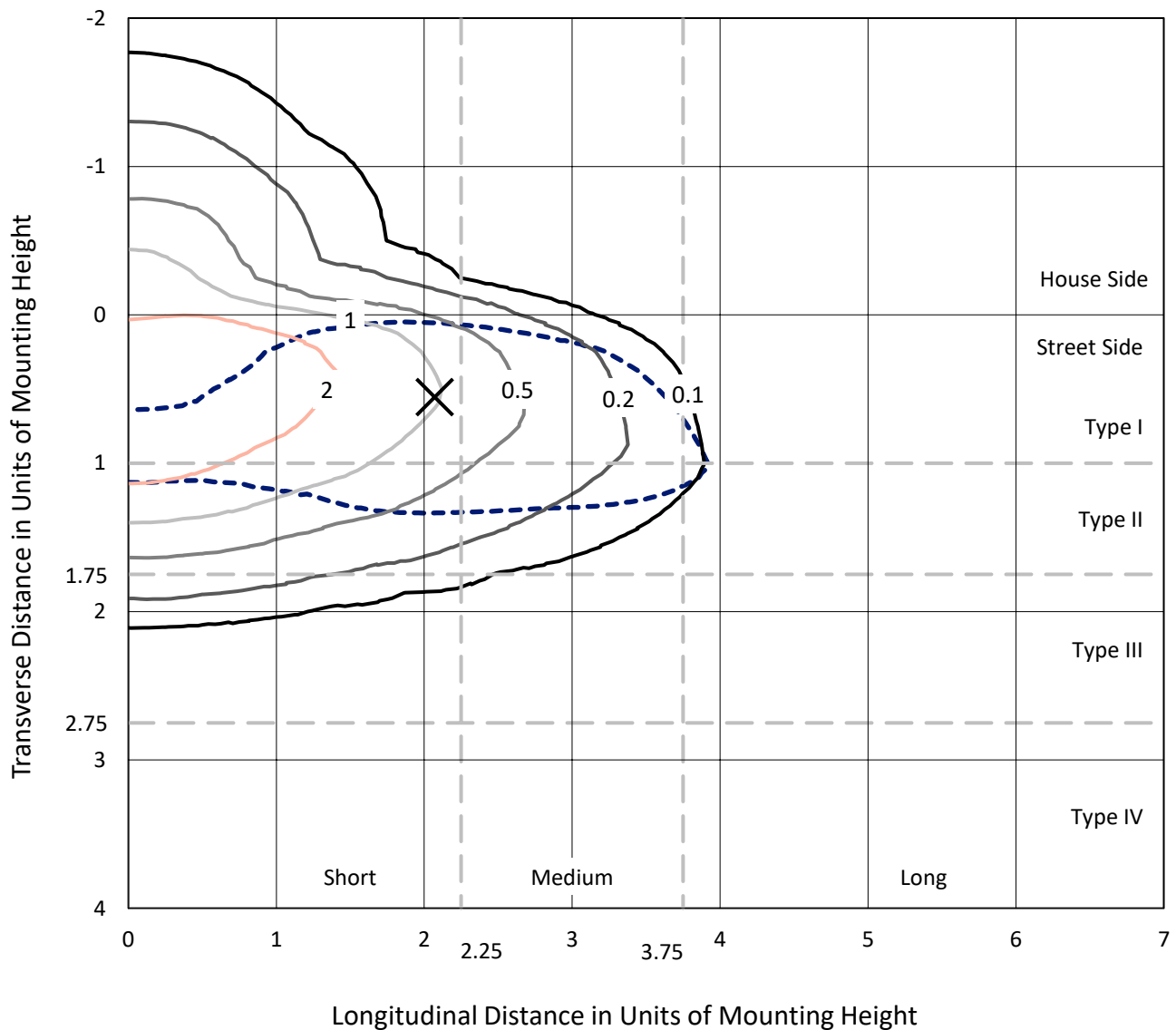


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

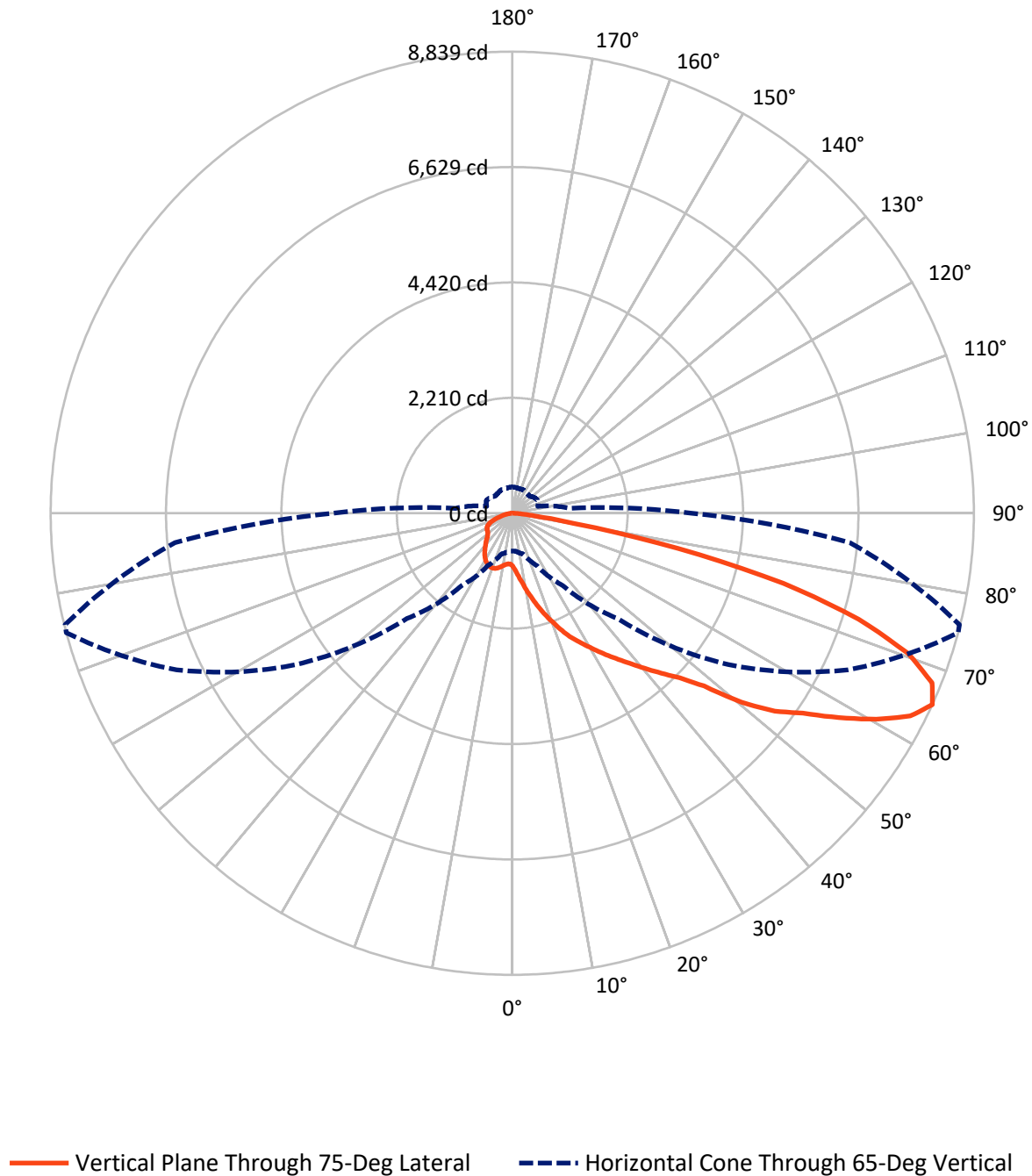


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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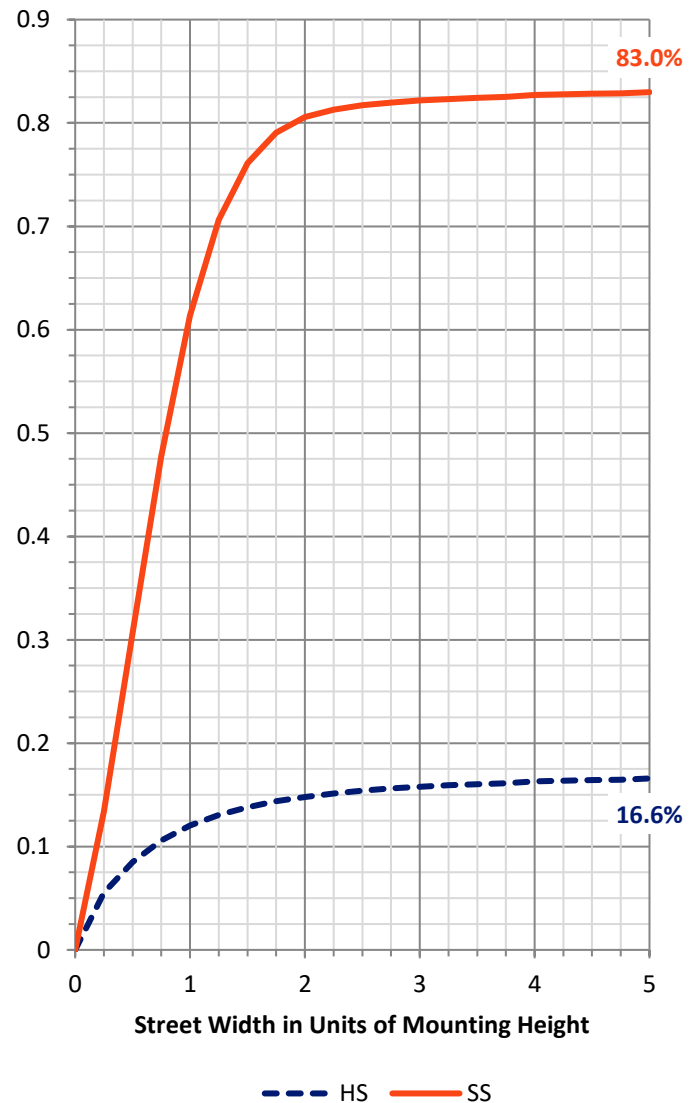
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1826.2	0.0	1826.2
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	9036.8	0.0	9036.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	10863.0	0.0	10863.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	1.1
10°-20°	480.3	4.4
20°-30°	927.8	8.5
30°-40°	1507.0	13.9
40°-50°	2073.1	19.1
50°-60°	2447.6	22.5
60°-70°	2144.5	19.7
70°-80°	1023.8	9.4
80°-90°	136.2	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°	10863.0	100.0
0°-180°	10863.0	100.0

**Coefficient of Utilization**



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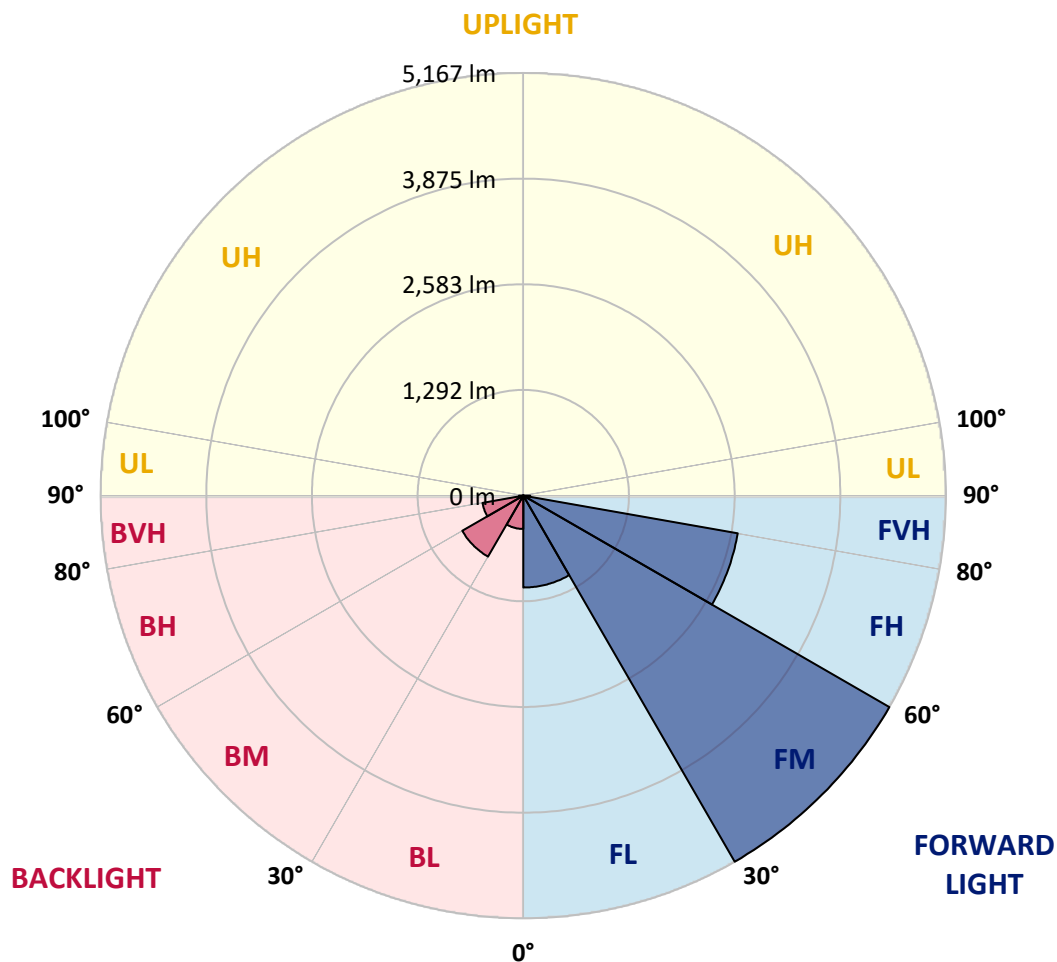
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1123.1	10.3			
FM	(30°-60°)	5166.7	47.6			
FH	(60°-80°)	2661.9	24.5			G2/5000
FVH	(80°-90°)	85.1	0.8			G1/100
BL	(0°-30°)	407.7	3.8	B1/500		
BM	(30°-60°)	861.0	7.9	B1/1000		
BH	(60°-80°)	506.4	4.7	B2/1000		G2/1000
BVH	(80°-90°)	51.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3
2.5°	1341.0	1332.2	1322.8	1296.8	1269.1	1237.9	1193.1	1150.1	1093.0	1091.2	1048.8
5°	1712.8	1706.9	1665.1	1640.9	1576.7	1491.3	1418.8	1306.3	1202.0	1189.6	1107.1
7.5°	2054.6	2031.6	2015.7	1972.1	1908.4	1798.8	1658.6	1506.6	1332.2	1315.7	1179.0
10°	2312.0	2309.7	2301.4	2263.7	2216.0	2107.0	1951.5	1733.4	1497.2	1464.8	1266.2
12.5°	2504.7	2506.5	2505.3	2504.7	2470.5	2378.0	2209.5	1979.7	1663.9	1640.9	1367.0
15°	2631.4	2649.1	2656.1	2685.6	2688.5	2626.7	2481.7	2217.8	1851.9	1817.7	1475.4
17.5°	2715.1	2723.9	2756.9	2807.0	2847.6	2836.4	2707.4	2438.1	2044.0	1986.8	1587.9
20°	2795.2	2810.5	2835.8	2904.2	2976.1	3009.1	2918.3	2663.8	2234.3	2197.7	1712.2
22.5°	2961.9	2983.7	2992.6	3027.3	3088.6	3146.9	3105.7	2880.0	2442.8	2393.4	1844.2
25°	3244.2	3267.1	3242.4	3234.2	3254.2	3283.1	3274.2	3083.9	2639.6	2568.9	1969.1
27.5°	3611.8	3614.8	3566.5	3520.5	3471.0	3456.3	3429.2	3264.8	2810.5	2751.6	2094.6
30°	4006.6	3992.5	3912.3	3829.2	3745.6	3663.1	3585.3	3439.2	3000.8	2933.1	2217.8
32.5°	4373.1	4365.4	4276.5	4147.4	4006.0	3928.2	3770.9	3615.4	3204.7	3139.3	2344.5
35°	4647.7	4658.9	4561.0	4420.2	4265.9	4196.9	3998.4	3800.4	3415.6	3344.3	2482.3
37.5°	4842.7	4836.8	4750.2	4628.2	4492.7	4432.6	4264.1	4002.5	3642.5	3574.1	2633.2
40°	4912.2	4908.7	4844.5	4755.5	4669.5	4648.2	4542.2	4220.5	3902.3	3822.2	2814.6
42.5°	4868.0	4875.7	4833.3	4809.1	4793.2	4808.5	4818.5	4506.2	4185.7	4112.1	3011.4
45°	4732.5	4728.4	4722.5	4762.0	4851.5	4952.3	5091.9	4776.1	4493.9	4435.0	3275.4
47.5°	4490.3	4519.8	4534.5	4643.5	4839.1	5077.8	5406.6	5137.9	4941.1	4889.8	3677.8
50°	4151.5	4175.1	4262.3	4456.2	4747.8	5124.9	5714.1	5729.4	5687.0	5591.0	4115.0
52.5°	3622.4	3659.0	3838.7	4194.0	4560.5	5105.5	5900.3	6236.7	6292.7	6220.8	4545.7
55°	3030.3	3081.5	3271.3	3737.3	4302.4	4999.4	6028.8	6530.8	6754.1	6687.5	4960.5
57.5°	2450.5	2504.7	2699.7	3151.1	3852.2	4764.9	6113.0	6858.4	7382.2	7295.5	5476.7
60°	1836.6	1893.1	2060.5	2525.3	3211.2	4306.5	6055.9	7142.4	8009.7	7972.5	5993.4
62.5°	1184.9	1247.3	1392.9	1777.6	2468.2	3680.2	5750.1	7299.1	8552.9	8508.1	6370.5
65°	721.8	728.8	809.0	1103.6	1689.3	2849.4	5050.7	7091.1	8839.3	8825.7	6485.4
67.5°	466.7	477.8	514.4	661.1	1012.8	1979.1	4038.4	6404.7	8671.9	8667.2	6247.9
70°	394.2	397.7	414.2	446.0	588.6	1200.2	2835.8	5310.5	8036.2	8036.2	5677.0
72.5°	352.3	357.1	363.0	373.0	420.1	679.9	1692.2	4133.9	6938.5	6984.4	4832.1
75°	319.9	318.8	322.3	324.1	358.2	444.3	875.0	3057.4	5367.7	5275.8	3499.3
77.5°	274.0	275.7	274.0	281.6	316.4	338.2	444.3	2051.6	3253.0	3134.0	1756.4
80°	225.1	228.0	231.0	235.7	270.4	256.9	266.9	935.1	1203.2	1177.8	542.7
82.5°	169.1	173.2	177.9	189.1	212.7	169.7	168.5	399.5	434.2	397.7	199.7
85°	68.3	80.7	122.0	133.2	133.7	93.1	103.7	166.7	177.4	173.2	78.4
87.5°	15.9	18.9	39.5	59.5	54.8	34.8	38.3	54.2	61.9	57.2	26.5
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°	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3
2.5°	1029.3	1008.7	973.4	946.3	926.8	909.7	899.1	892.6	890.3	889.7	890.3
5°	1064.1	1027.6	971.6	936.2	916.8	905.6	899.1	898.5	899.1	899.7	897.9
7.5°	1111.8	1059.4	986.3	953.3	938.6	930.4	927.4	926.2	926.8	926.2	926.2
10°	1175.5	1103.6	1015.2	981.0	968.7	959.2	954.5	951.6	949.2	946.9	945.7
12.5°	1245.6	1152.5	1046.4	1013.4	995.8	981.0	970.4	962.8	957.5	952.2	951.0
15°	1323.9	1204.3	1081.2	1035.2	1009.9	988.1	969.8	957.5	948.0	940.4	939.8
17.5°	1398.8	1253.2	1104.8	1045.3	1008.1	977.5	953.3	936.2	924.5	914.4	913.3
20°	1478.9	1299.8	1115.4	1038.8	990.5	953.3	921.5	900.9	887.3	876.1	874.4
22.5°	1559.6	1339.3	1114.2	1018.1	959.8	916.2	882.6	860.8	844.9	833.7	829.6
25°	1636.8	1371.1	1099.5	985.2	917.4	872.0	837.9	817.8	803.7	790.1	790.1
27.5°	1706.3	1389.9	1071.8	945.1	873.8	826.1	799.0	780.7	767.7	758.9	753.6
30°	1774.7	1398.8	1034.1	894.4	827.8	787.2	765.4	754.8	743.0	733.0	731.8
32.5°	1836.0	1397.0	986.9	844.9	784.2	755.4	746.5	738.3	725.9	711.8	708.2
35°	1895.5	1385.2	930.9	790.7	747.7	736.5	738.9	727.1	704.7	687.0	684.1
37.5°	1960.3	1364.0	869.7	746.5	717.1	727.7	733.6	707.6	671.1	643.4	636.9
40°	2035.1	1339.9	806.0	702.3	692.9	719.4	719.4	671.7	621.6	604.5	599.8
42.5°	2122.9	1319.8	753.0	665.2	672.9	699.4	696.4	624.0	603.3	594.5	592.2
45°	2262.0	1312.8	698.2	632.8	656.4	675.8	651.7	607.5	595.7	588.6	586.3
47.5°	2481.7	1321.0	649.9	608.6	637.5	652.3	601.6	596.3	588.0	578.0	576.8
50°	2685.6	1313.3	615.7	595.1	621.0	624.0	581.0	582.7	578.0	566.8	564.5
52.5°	2852.3	1289.2	593.9	588.0	606.9	574.5	561.5	568.0	566.2	552.1	549.7
55°	3035.6	1274.5	583.3	588.0	597.5	531.5	543.2	552.7	550.3	540.3	539.7
57.5°	3257.7	1277.4	575.7	589.8	588.0	509.7	525.0	536.2	535.6	532.6	532.6
60°	3485.2	1278.6	563.9	589.2	576.8	492.6	506.1	522.0	523.2	525.0	525.0
62.5°	3560.6	1227.3	540.9	578.6	552.1	476.1	488.5	510.3	509.1	513.8	514.4
65°	3419.8	1085.3	506.7	554.4	520.3	464.3	474.9	494.9	488.5	500.8	503.2
67.5°	3112.8	897.9	453.7	510.8	484.9	451.9	466.1	473.7	461.9	486.1	486.7
70°	2690.3	701.2	386.5	449.0	444.9	439.0	459.0	447.2	430.7	460.2	454.3
72.5°	2249.6	535.6	308.7	367.1	391.2	419.5	446.6	413.0	390.1	398.9	388.3
75°	1689.8	395.9	248.1	287.5	325.8	391.8	435.4	371.8	336.4	328.2	325.8
77.5°	861.4	258.7	185.6	215.1	244.5	354.1	420.1	323.5	278.7	265.7	259.8
80°	307.6	160.9	130.8	148.5	165.0	304.6	367.1	267.5	216.2	213.9	216.2
82.5°	142.6	103.7	87.8	97.2	97.8	203.3	279.9	199.7	164.4	249.8	210.9
85°	61.3	51.9	49.5	48.3	44.8	90.7	157.3	107.2	167.3	74.8	68.9
87.5°	18.3	20.6	18.3	13.6	10.0	10.0	15.9	5.9	4.1	2.9	2.9
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)