

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: P458734

Luminaire Tested: **GALN-SA2D-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458734  
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-SA2D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14574 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

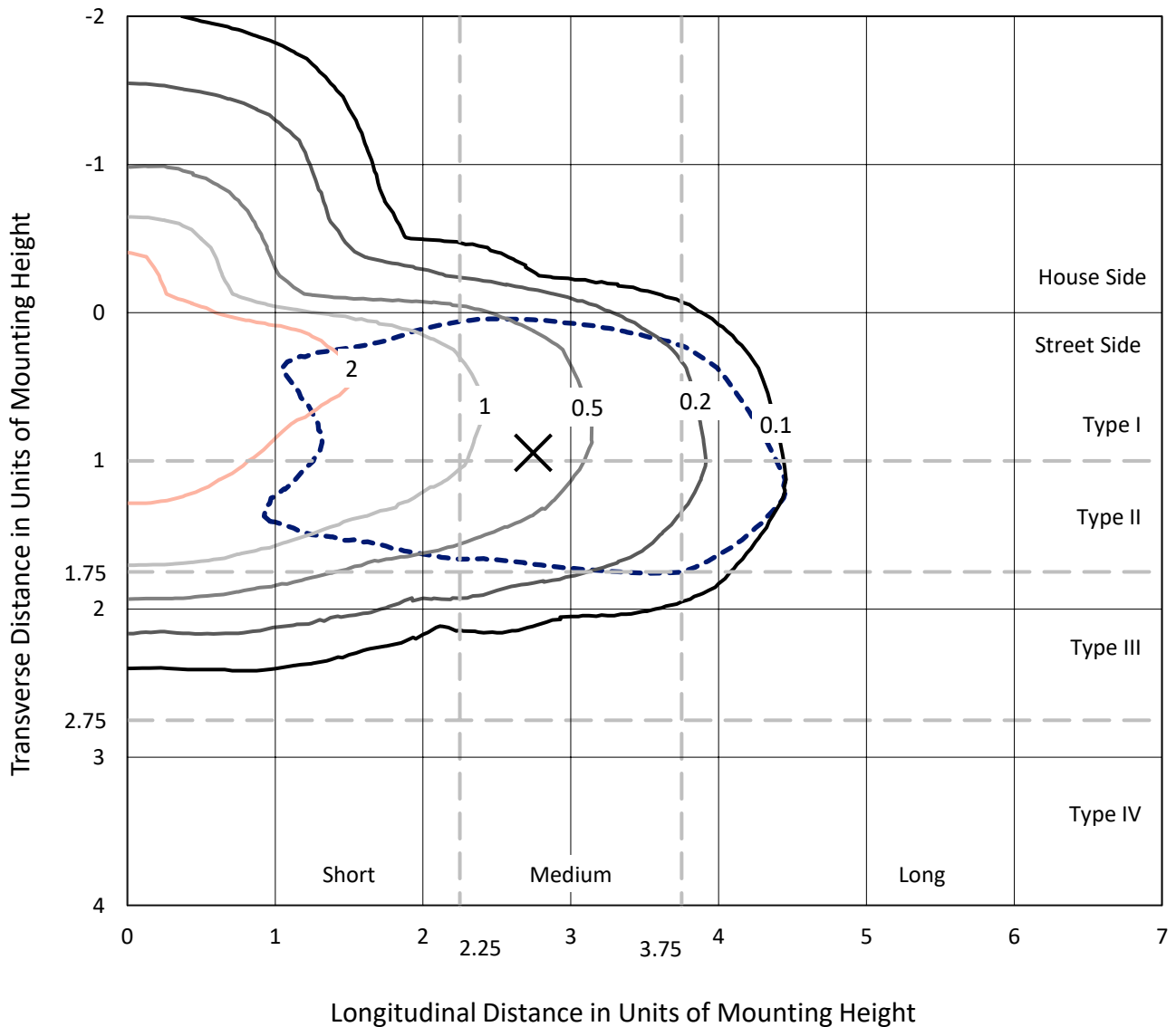
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

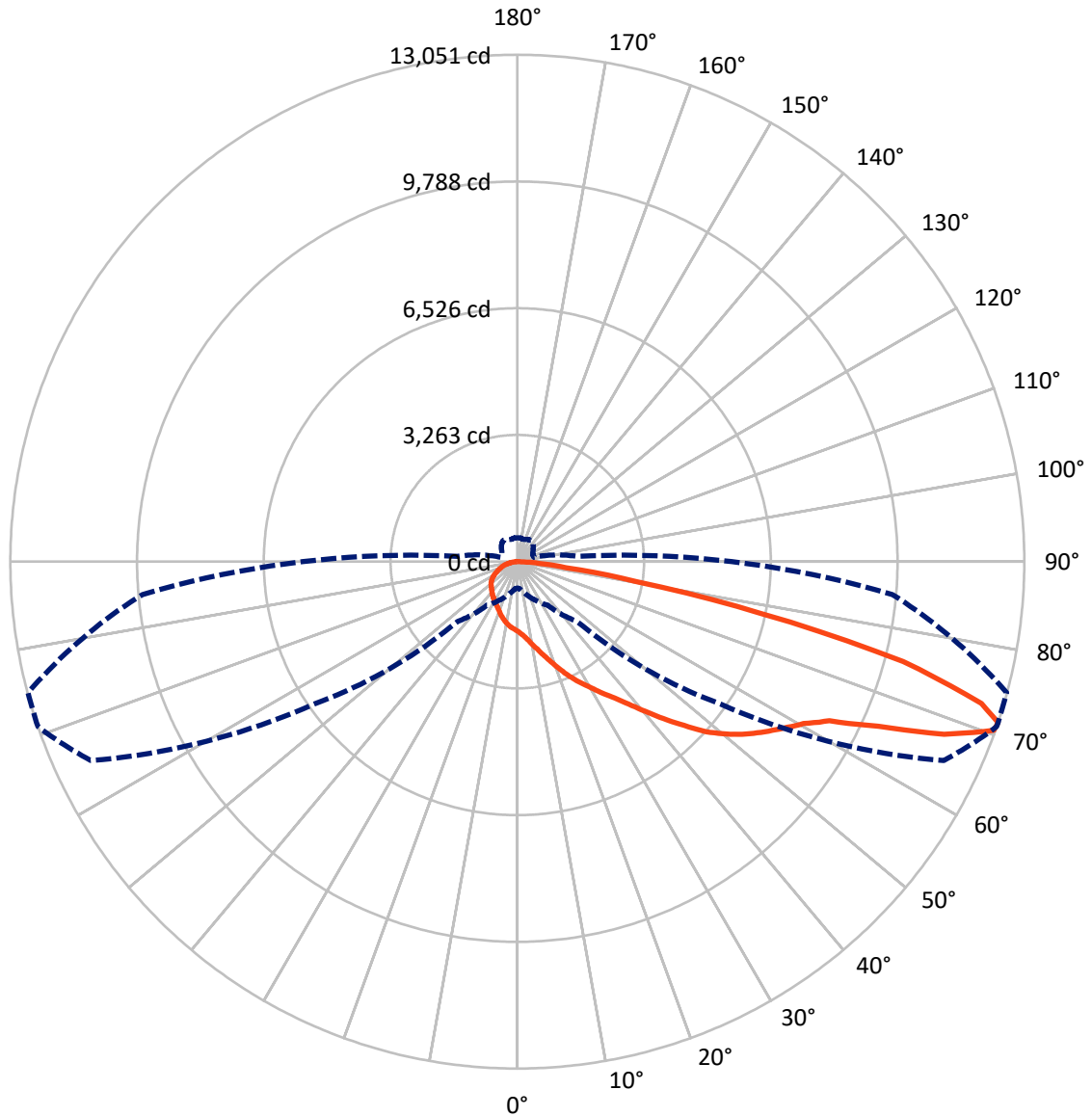
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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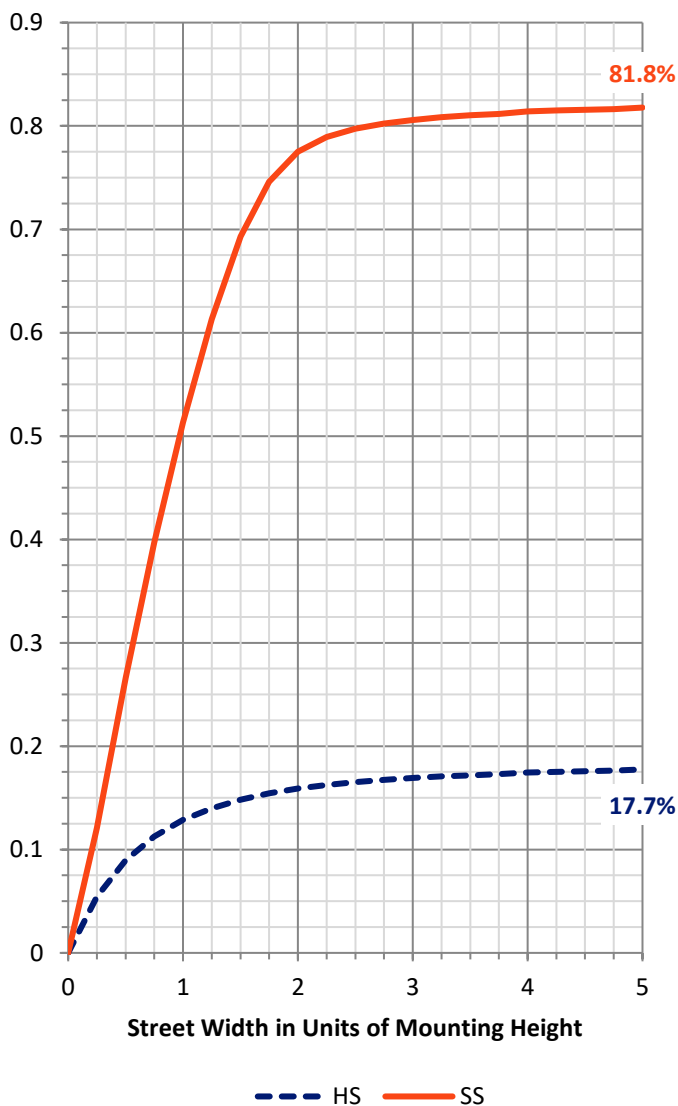
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2621.1	0.0	2621.1
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	11952.9	0.0	11952.9
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	14574.0	0.0	14574.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	1.2
10°-20°	583.5	4.0
20°-30°	1019.7	7.0
30°-40°	1516.7	10.4
40°-50°	2234.6	15.3
50°-60°	3128.5	21.5
60°-70°	3499.1	24.0
70°-80°	2137.4	14.7
80°-90°	274.9	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°	14574.0	100.0
0°-180°	14574.0	100.0

**Coefficient of Utilization**



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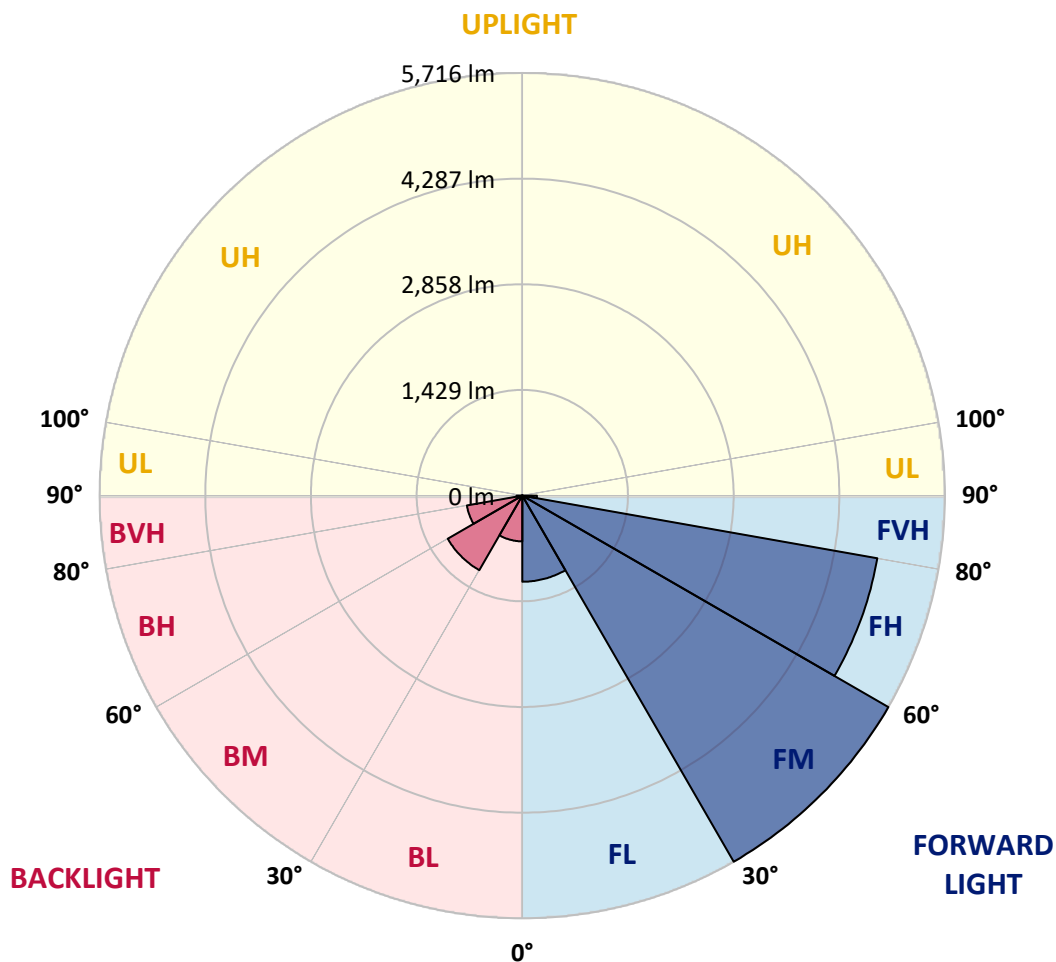
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1164.5	8.0			
FM	(30°-60°)	5715.6	39.2			
FH	(60°-80°)	4875.0	33.4			G2/5000
FVH	(80°-90°)	197.8	1.4			G2/225
BL	(0°-30°)	618.3	4.2	B2/1000		
BM	(30°-60°)	1164.1	8.0	B2/2500		
BH	(60°-80°)	761.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	77.1	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7
2.5°	1985.7	1976.1	1976.9	1963.3	1945.7	1926.4	1899.2	1875.2	1856.0	1844.7	1811.9
5°	2200.4	2190.8	2178.8	2149.1	2136.3	2089.1	2029.0	1974.5	1932.9	1909.6	1843.9
7.5°	2374.2	2371.8	2368.6	2351.8	2318.9	2253.3	2202.0	2107.5	2045.8	2001.7	1889.6
10°	2481.6	2485.6	2488.0	2491.2	2477.5	2443.1	2372.6	2253.3	2174.8	2118.7	1948.9
12.5°	2536.0	2540.0	2553.6	2583.3	2601.7	2597.7	2540.0	2423.1	2314.9	2241.2	2012.2
15°	2569.7	2576.1	2600.1	2639.4	2701.0	2740.3	2712.2	2604.1	2485.6	2398.2	2087.5
17.5°	2606.5	2613.7	2640.2	2696.2	2777.1	2862.0	2892.5	2799.6	2670.6	2566.5	2171.6
20°	2627.3	2636.9	2674.6	2748.3	2842.8	2966.2	3067.1	3018.2	2877.3	2761.9	2268.5
22.5°	2661.0	2669.0	2701.0	2779.5	2892.5	3047.1	3241.7	3231.3	3107.1	2958.2	2375.0
25°	2752.3	2765.1	2781.1	2828.4	2937.3	3129.6	3386.7	3458.8	3329.8	3163.2	2472.7
27.5°	2924.5	2934.9	2934.1	2940.5	3002.2	3200.9	3512.5	3683.9	3550.9	3370.7	2567.3
30°	3120.8	3124.8	3128.0	3113.6	3127.2	3273.8	3627.8	3906.6	3773.6	3583.8	2649.8
32.5°	3359.5	3367.5	3340.2	3303.4	3292.2	3381.9	3723.1	4129.2	4037.1	3800.0	2731.5
35°	3641.4	3662.2	3607.0	3542.1	3496.4	3537.3	3851.3	4356.7	4307.1	4076.4	2839.6
37.5°	3963.4	3989.1	3937.8	3810.4	3745.6	3756.8	4018.7	4637.9	4648.3	4391.2	3000.6
40°	4227.0	4260.6	4262.2	4082.0	3983.5	3996.3	4231.0	4940.7	5060.0	4780.5	3190.5
42.5°	4400.8	4433.6	4468.1	4362.3	4259.0	4331.9	4478.5	5269.1	5523.0	5253.1	3455.6
45°	4591.4	4621.1	4640.3	4592.2	4534.6	4723.6	4777.3	5618.3	6016.4	5780.9	3745.6
47.5°	4812.5	4845.4	4863.8	4818.1	4796.5	5067.2	5099.3	5944.3	6543.5	6293.6	4066.0
50°	5107.3	5132.1	5122.5	5093.7	5088.9	5330.8	5408.5	6249.5	6978.5	6845.5	4398.4
52.5°	5474.2	5503.8	5514.2	5473.3	5454.9	5519.0	5657.6	6527.5	7374.2	7319.7	4753.2
55°	5696.0	5743.3	5901.9	5966.0	6010.0	5762.5	5925.9	6834.3	7729.0	7819.5	5134.5
57.5°	5411.7	5472.5	5827.4	6147.8	6561.9	6371.3	6306.4	7154.7	8083.9	8304.1	5591.1
60°	4718.0	4731.6	5189.0	5779.3	6612.4	7153.9	7100.2	7664.1	8468.4	8792.8	6192.7
62.5°	3273.0	3301.8	3842.5	4784.5	5989.2	7435.8	8450.7	8543.6	9019.5	9524.1	7074.6
65°	1687.7	1650.1	2142.7	3007.0	4515.3	6766.2	9544.9	10160.9	10214.6	10667.9	8316.2
67.5°	1038.9	1055.7	1286.4	1755.8	2669.8	4917.4	9430.4	12137.0	11854.3	12072.1	9468.8
70°	780.2	801.0	959.6	1201.5	1627.7	2811.6	7584.0	12616.0	13010.9	12954.8	9819.7
71°	678.5	700.1	865.1	1093.4	1367.3	2170.0	6389.7	12114.6	13051.0	13041.4	9687.5
72.5°	578.3	592.0	720.9	926.0	1152.7	1521.1	4800.5	10865.0	12494.3	12813.9	9215.7
75°	454.2	464.6	522.3	706.5	907.6	934.0	2576.1	8145.5	10261.8	10870.6	7672.1
77.5°	370.1	377.3	406.9	524.7	700.1	661.6	1351.3	5301.9	6429.0	7041.7	4519.3
80°	294.0	302.0	319.6	355.7	524.7	471.8	644.8	2686.6	3105.5	3099.1	1803.9
82.5°	228.3	230.7	251.5	261.1	358.9	334.8	349.2	1137.4	1260.0	1301.7	651.2
85°	144.2	151.4	222.7	200.3	214.7	196.2	172.2	451.8	556.7	548.7	260.3
87.5°	44.1	46.5	75.3	84.9	95.3	85.7	63.3	133.0	162.6	176.2	64.9
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°	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7
2.5°	1799.1	1790.3	1759.0	1733.4	1709.4	1682.9	1660.5	1654.1	1648.5	1646.1	1645.3
5°	1815.9	1789.5	1727.8	1677.3	1637.3	1600.4	1577.2	1566.8	1556.4	1556.4	1559.6
7.5°	1839.9	1791.9	1696.6	1621.3	1570.8	1536.4	1519.5	1517.9	1520.3	1522.7	1523.5
10°	1866.4	1790.3	1650.9	1557.2	1512.3	1496.3	1497.1	1510.7	1523.5	1533.1	1534.7
12.5°	1892.0	1780.7	1597.2	1497.1	1468.3	1471.5	1493.9	1524.3	1549.2	1562.8	1563.6
15°	1920.8	1765.4	1532.3	1440.2	1430.6	1455.4	1497.1	1543.6	1581.2	1603.6	1606.0
17.5°	1944.9	1739.8	1464.3	1385.0	1397.0	1442.6	1500.3	1560.4	1606.0	1634.1	1638.9
20°	1972.1	1707.0	1393.8	1332.1	1366.5	1428.2	1493.9	1558.8	1606.0	1633.3	1639.7
22.5°	1993.7	1660.5	1326.5	1288.8	1339.3	1410.6	1472.3	1524.3	1562.8	1577.2	1586.8
25°	2002.5	1602.0	1263.2	1253.6	1317.7	1381.8	1423.4	1453.0	1465.1	1463.5	1467.5
27.5°	1997.7	1534.7	1208.7	1225.6	1290.4	1336.9	1357.7	1355.3	1333.7	1313.7	1323.3
30°	1977.7	1454.6	1163.1	1196.7	1255.2	1280.8	1277.6	1246.4	1205.5	1167.9	1170.3
32.5°	1941.7	1368.1	1120.6	1163.9	1205.5	1216.7	1195.1	1154.3	1095.8	1046.9	1039.7
35°	1911.2	1285.6	1083.0	1126.2	1155.9	1150.3	1129.4	1076.6	1023.7	980.4	973.2
37.5°	1906.4	1215.1	1046.9	1083.8	1100.6	1092.6	1067.0	1022.1	1002.9	970.0	966.0
40°	1932.1	1165.5	1010.1	1038.9	1046.9	1040.5	1012.5	986.9	1004.5	996.5	996.5
42.5°	2001.7	1139.0	977.2	994.1	1000.5	1005.3	985.3	963.6	985.3	948.4	936.4
45°	2112.3	1139.8	947.6	950.0	969.2	986.1	972.4	940.4	929.2	855.5	841.1
47.5°	2274.9	1167.1	923.6	908.4	942.8	970.8	951.6	905.1	855.5	806.6	797.8
50°	2464.7	1215.9	901.9	865.1	907.6	951.6	937.2	882.7	831.5	801.8	796.2
52.5°	2675.4	1277.6	875.5	817.0	864.3	942.8	940.4	879.5	809.0	789.0	784.2
55°	2935.7	1338.5	842.7	761.0	825.8	935.6	931.6	853.1	804.2	789.8	788.2
57.5°	3238.5	1426.6	795.4	704.1	781.8	906.0	897.1	837.1	788.2	777.8	777.0
60°	3726.3	1563.6	728.1	652.0	736.9	853.9	865.1	809.8	762.6	760.2	759.4
62.5°	4367.9	1755.8	658.4	598.4	684.9	786.6	818.6	773.0	735.3	747.3	749.0
65°	5253.9	1917.6	586.3	552.7	627.2	721.7	774.6	738.5	704.9	728.1	728.1
67.5°	5831.4	1920.8	520.7	505.4	568.7	667.2	728.1	697.7	665.6	704.9	706.5
70°	5711.3	1682.9	466.2	455.8	511.8	608.8	676.9	652.8	616.0	651.2	638.4
71°	5517.4	1550.8	444.6	436.6	489.4	580.7	652.8	632.8	596.0	619.2	612.0
72.5°	5208.2	1346.5	409.3	410.9	455.8	545.5	619.2	598.4	561.5	574.3	571.9
75°	4402.4	1175.9	350.0	357.3	391.7	485.4	551.9	535.9	498.2	498.2	495.8
77.5°	2752.3	821.8	290.8	294.8	332.4	415.7	474.2	460.6	424.5	412.5	409.3
80°	1026.9	424.5	227.5	232.3	255.5	327.6	392.5	379.7	342.8	329.2	316.4
82.5°	388.5	213.1	167.4	163.4	188.2	249.9	307.6	292.4	263.5	230.7	221.1
85°	146.6	105.7	102.5	99.3	110.5	148.2	190.6	187.4	157.0	133.8	131.4
87.5°	38.4	34.4	40.1	29.6	31.2	28.0	28.8	12.0	5.6	2.4	1.6
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)