

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: P647522

Luminaire Tested: **GALN-SA6D-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36757.2 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

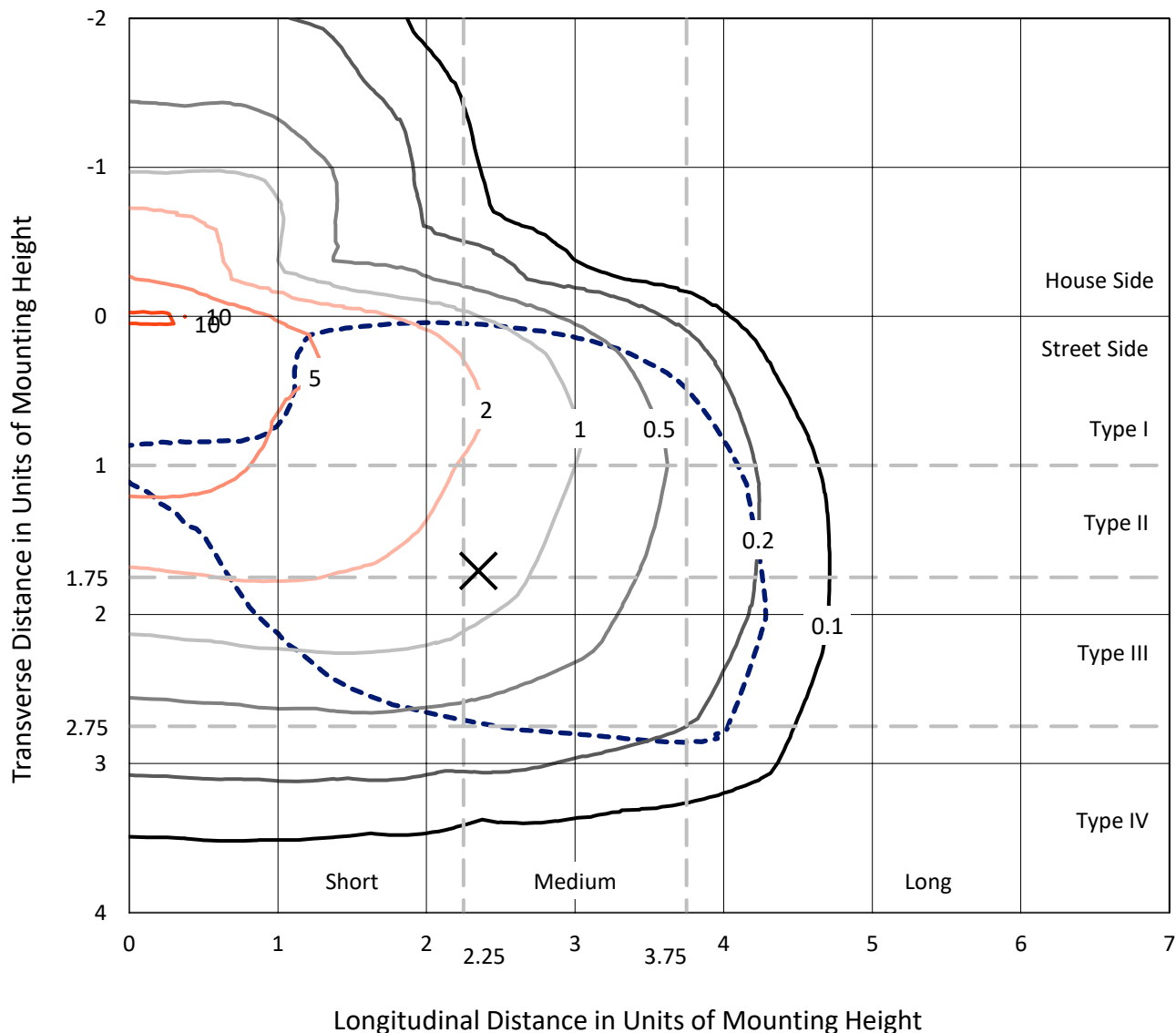
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

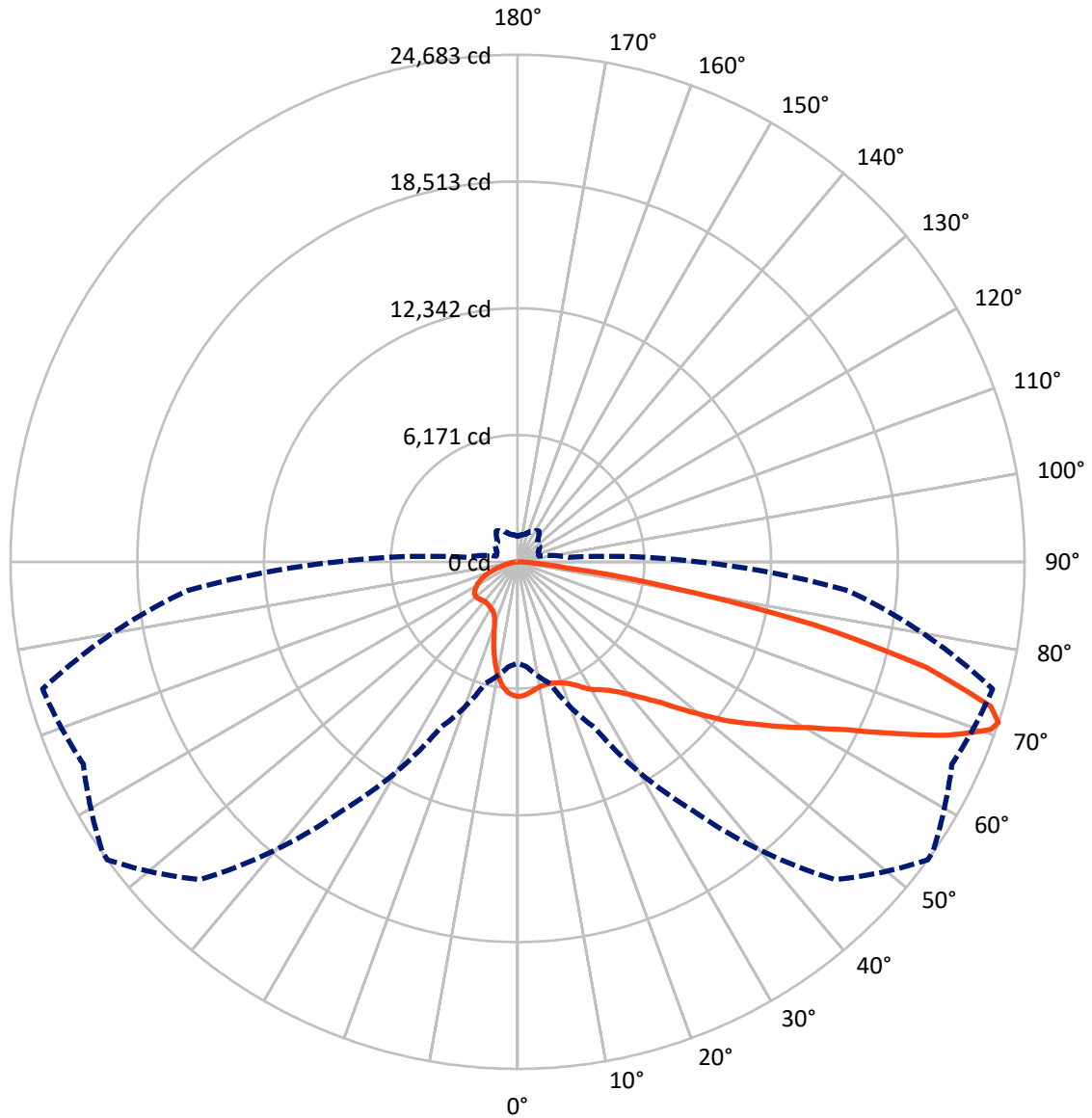
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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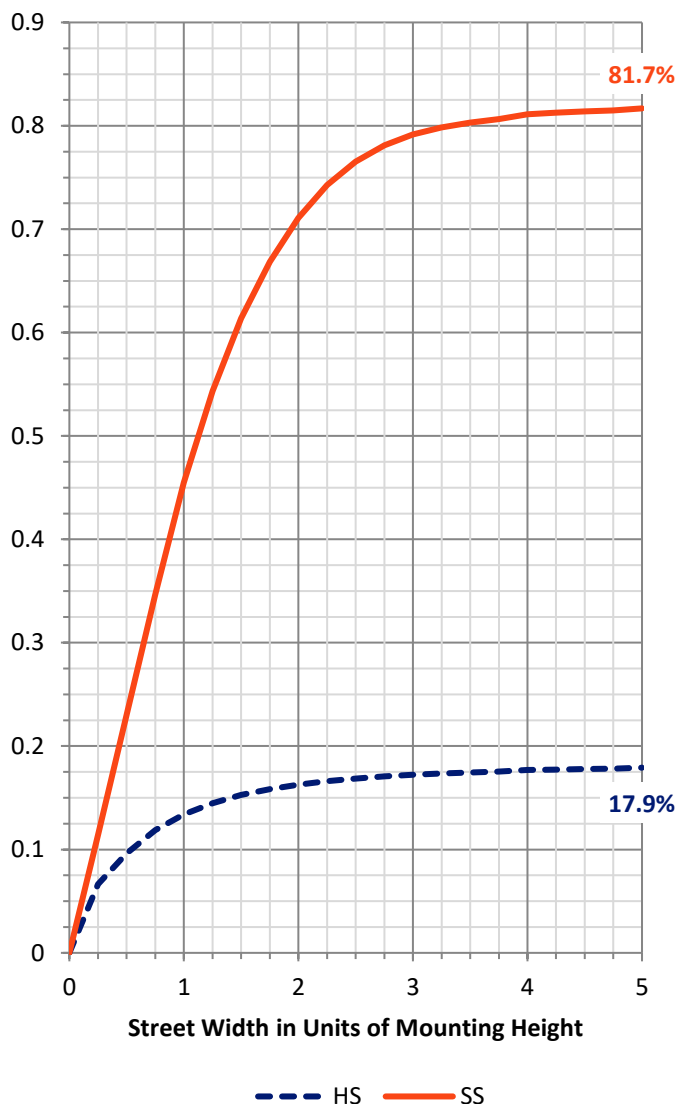
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6636.3	0.0	6636.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	30120.9	0.0	30120.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	36757.2	0.0	36757.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.4	1.6
10°-20°	1543.2	4.2
20°-30°	2569.4	7.0
30°-40°	3799.3	10.3
40°-50°	5351.5	14.6
50°-60°	7165.9	19.5
60°-70°	9032.0	24.6
70°-80°	6168.9	16.8
80°-90°	542.5	1.5
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°	36757.2	100.0
0°-180°	36757.2	100.0

**Coefficient of Utilization**

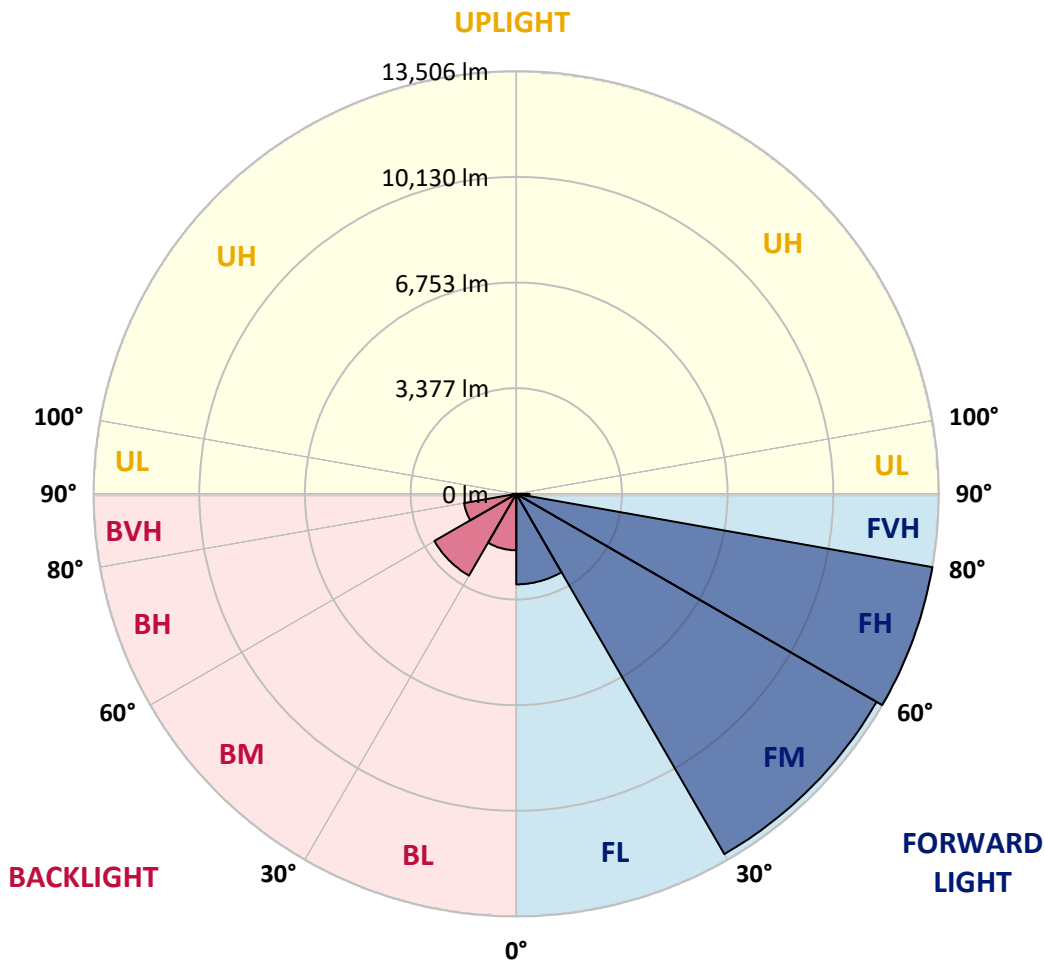


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2893.4	7.9			
FM (30°-60°)	13297.4	36.2			
FH (60°-80°)	13506.0	36.7			G5
FVH (80°-90°)	424.1	1.2			G3/500
BL (0°-30°)	1803.6	4.9	B3/2500		
BM (30°-60°)	3019.3	8.2	B3/5000		
BH (60°-80°)	1694.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	118.5	0.3			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0
2.5°	6335.6	6365.4	6373.4	6393.2	6434.9	6468.7	6502.4	6498.4	6546.1	6565.9	6583.9
5°	6053.7	6061.7	6091.4	6131.1	6204.6	6297.9	6389.3	6391.2	6508.4	6601.7	6647.4
7.5°	5847.2	5873.0	5892.9	5934.6	6012.0	6113.3	6258.2	6270.1	6478.6	6663.3	6760.5
10°	5712.2	5742.0	5763.8	5815.4	5892.9	6006.1	6162.9	6184.8	6456.8	6760.5	6931.3
12.5°	5589.1	5618.9	5638.8	5706.3	5807.5	5946.5	6123.2	6149.0	6464.7	6873.7	7117.9
15°	5664.5	5688.4	5680.4	5700.3	5767.8	5926.6	6139.1	6164.9	6494.5	6983.0	7302.6
17.5°	6000.1	6019.9	5954.4	5879.0	5847.2	5964.3	6188.8	6216.6	6554.0	7096.1	7491.2
20°	6494.5	6548.1	6405.2	6236.4	6083.5	6099.4	6292.0	6321.8	6637.4	7209.2	7683.8
22.5°	7137.7	7177.5	7002.8	6724.8	6442.8	6297.9	6446.8	6464.7	6762.5	7356.2	7894.2
25°	7894.2	7918.1	7675.8	7318.5	6911.5	6637.4	6659.3	6691.0	6969.0	7523.0	8080.9
27.5°	8628.9	8704.3	8424.4	7987.5	7451.5	6994.9	6951.2	6971.0	7193.3	7616.2	8209.9
30°	9500.5	9494.5	9198.7	8692.4	8005.4	7384.0	7227.1	7223.2	7314.5	7662.0	8303.2
32.5°	10195.4	10276.8	9986.9	9435.0	8638.8	7787.0	7417.8	7409.8	7407.8	7741.4	8442.2
35°	10985.6	10997.5	10731.5	10175.6	9323.8	8293.3	7683.8	7644.0	7598.4	7912.1	8630.9
37.5°	11692.5	11748.1	11503.8	10880.4	9996.9	8819.5	8049.1	8023.3	7884.3	8208.0	8932.6
40°	12244.4	12286.1	12139.2	11545.5	10660.0	9387.3	8513.7	8466.0	8297.3	8692.4	9335.7
42.5°	12425.1	12510.5	12568.0	12276.2	11422.4	10060.4	9085.5	9026.0	8896.9	9427.0	9800.3
45°	12439.0	12574.0	12877.8	12891.7	12188.8	10866.5	9752.7	9710.9	9701.1	10368.2	10453.5
47.5°	12333.7	12470.8	12981.0	13257.0	12871.8	11680.6	10715.6	10650.1	10656.0	11531.6	11186.2
50°	12079.7	12242.4	12861.9	13491.3	13405.9	12526.4	11732.2	11710.3	11833.4	12859.9	11946.6
52.5°	11601.2	11797.7	12738.8	13638.2	13803.0	13255.0	12887.7	12826.2	13137.9	14301.3	12778.5
55°	10276.8	10572.6	12288.1	13719.6	14180.3	13952.0	13928.1	14039.3	14452.3	15873.8	13693.8
57.5°	9585.9	9808.2	11309.3	13733.5	14656.7	14762.0	15143.2	15171.0	15893.7	17543.7	14728.2
60°	9208.6	9405.2	10773.2	13642.2	15321.9	15764.7	16386.2	16485.4	17301.4	19352.4	15800.4
62.5°	8879.1	9047.8	10451.6	13326.5	16072.4	17251.8	17996.3	18044.0	18899.7	21349.8	16858.7
65°	8102.7	8295.3	9804.3	13010.8	16719.7	19110.2	20132.7	20077.1	20601.3	23073.2	17521.8
67.5°	7056.4	7300.6	8595.1	11920.8	17039.3	21141.3	22539.1	22469.6	22281.0	24202.9	17712.4
70°	5720.1	5851.2	7048.4	10036.6	15762.7	22207.5	24439.2	24365.7	23321.3	24351.8	16811.0
71°	4922.0	5126.5	6137.1	8914.8	14700.4	21881.9	24683.4	24663.6	23323.4	23940.9	16132.0
72.5°	3841.9	3967.0	4860.5	6907.5	12494.6	20031.4	24079.8	24155.2	22817.1	22799.2	14732.2
75°	2430.2	2485.8	3049.7	4066.3	6855.9	14186.2	20555.6	20760.1	20259.8	18661.5	10955.8
77.5°	1411.7	1483.2	1826.7	2396.4	2962.3	7699.6	14708.4	14930.8	14077.0	10274.8	4485.2
80°	822.0	901.4	1203.2	1391.8	1360.1	2857.1	7489.2	7868.4	6095.4	2595.0	1258.8
82.5°	456.6	510.3	845.8	847.8	724.7	933.2	2356.8	2466.0	1739.3	1046.3	514.3
85°	331.6	375.3	546.0	494.4	347.5	401.1	820.0	859.7	702.8	440.8	166.8
87.5°	117.1	166.8	299.8	238.3	95.3	83.4	236.3	192.6	178.7	123.1	37.7
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°	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0	6558.0
2.5°	6593.7	6597.7	6577.9	6542.1	6506.4	6460.8	6409.1	6369.4	6351.5	6349.6	6347.5
5°	6665.2	6675.2	6599.8	6488.6	6365.4	6214.5	6085.5	5938.6	5900.8	5841.3	5859.1
7.5°	6780.4	6774.4	6625.5	6389.3	6101.4	5781.7	5511.7	5354.9	5192.0	5146.3	5148.3
10°	6945.2	6907.5	6625.5	6186.7	5706.3	5231.7	4854.5	4616.3	4487.1	4379.9	4340.2
12.5°	7119.9	7024.6	6562.0	5902.8	5197.9	4616.3	4211.2	3889.6	3806.2	3718.8	3720.8
15°	7286.7	7127.9	6436.9	5503.7	4650.0	3959.0	3565.9	3373.3	3347.5	3357.4	3355.5
17.5°	7437.6	7201.3	6246.3	5059.0	4010.7	3395.2	3186.7	3200.6	3270.0	3319.7	3325.6
20°	7590.5	7245.0	5962.4	4463.3	3407.1	3053.6	3061.6	3170.8	3276.0	3343.6	3353.4
22.5°	7735.4	7264.8	5628.8	3887.6	2970.2	2908.7	3025.8	3143.0	3246.2	3311.8	3321.7
25°	7830.7	7219.2	5156.3	3285.9	2755.8	2857.1	2980.2	3079.5	3166.8	3234.3	3250.2
27.5°	7856.5	7072.3	4570.5	2799.5	2656.6	2807.4	2920.7	2994.1	3061.6	3125.1	3137.0
30°	7842.6	6855.9	3927.3	2513.6	2599.0	2749.9	2837.3	2890.8	2972.3	3021.9	3031.9
32.5°	7820.8	6603.7	3256.2	2360.7	2551.3	2696.3	2747.9	2795.5	2793.6	2773.7	2787.6
35°	7828.7	6301.9	2712.2	2269.4	2509.7	2656.6	2700.3	2640.7	2469.9	2462.0	2454.1
37.5°	7870.4	6004.0	2317.1	2205.9	2487.8	2650.6	2674.4	2400.4	2249.6	2180.0	2162.2
40°	7977.6	5656.6	2056.9	2158.2	2485.8	2696.3	2557.3	2279.3	1989.4	1854.5	1844.5
42.5°	8120.6	5315.1	1898.1	2128.4	2509.7	2765.8	2509.7	2108.5	1792.9	1713.4	1701.5
45°	8333.0	4924.0	1810.8	2114.5	2545.4	2791.6	2493.8	1983.5	1713.4	1649.9	1649.9
47.5°	8573.3	4550.7	1763.1	2104.6	2591.0	2773.7	2352.8	1943.8	1675.8	1683.7	1721.4
50°	8811.6	4227.1	1727.4	2082.8	2630.7	2763.8	2295.2	1941.8	1685.6	1787.0	1854.5
52.5°	9087.5	3998.8	1683.7	2047.0	2630.7	2700.3	2277.4	1981.5	1713.4	1743.3	1773.0
55°	9421.1	3927.3	1628.1	1969.6	2583.1	2541.4	2267.4	2039.1	1733.3	1663.8	1675.8
57.5°	9861.9	4042.4	1574.5	1872.3	2473.9	2376.6	2263.4	2055.0	1687.7	1630.0	1618.1
60°	10374.1	4270.7	1558.6	1773.0	2325.0	2235.6	2239.6	2009.3	1624.1	1564.6	1574.5
62.5°	10733.4	4407.7	1548.7	1697.5	2162.2	2080.7	2182.1	1953.7	1596.3	1544.7	1554.6
65°	10733.4	4241.0	1457.3	1582.4	1951.7	1894.2	2112.5	1884.2	1560.6	1501.0	1491.1
67.5°	10326.4	3754.6	1318.3	1409.7	1719.4	1681.7	2015.3	1800.8	1507.0	1461.3	1437.5
70°	9266.2	2847.1	1143.6	1207.2	1425.6	1459.4	1890.2	1687.7	1417.6	1362.0	1326.3
71°	8799.6	2479.8	1070.2	1104.0	1312.4	1362.0	1830.6	1640.0	1377.9	1298.5	1234.9
72.5°	7900.2	2088.7	959.0	972.9	1121.8	1211.1	1705.5	1548.7	1302.4	1189.3	1117.8
75°	6002.1	1524.8	772.4	764.4	829.9	961.0	1443.5	1379.9	1141.6	988.8	947.0
77.5°	2593.1	829.9	577.8	583.7	563.8	728.7	1135.7	1185.3	978.8	804.1	766.4
80°	786.2	478.5	395.1	403.1	377.2	488.4	800.1	929.2	786.2	625.5	573.8
82.5°	403.1	285.9	270.1	266.1	240.2	276.0	484.4	635.3	561.9	391.1	345.5
85°	174.7	152.9	133.0	129.0	113.1	99.3	172.7	317.7	297.9	218.4	208.5
87.5°	43.7	39.7	25.8	23.8	13.9	2.0	0.0	0.0	0.0	0.0	0.0
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)