

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: P648567

Luminaire Tested: **GALN-SA7B-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648567  
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-SA7B-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31756.9 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

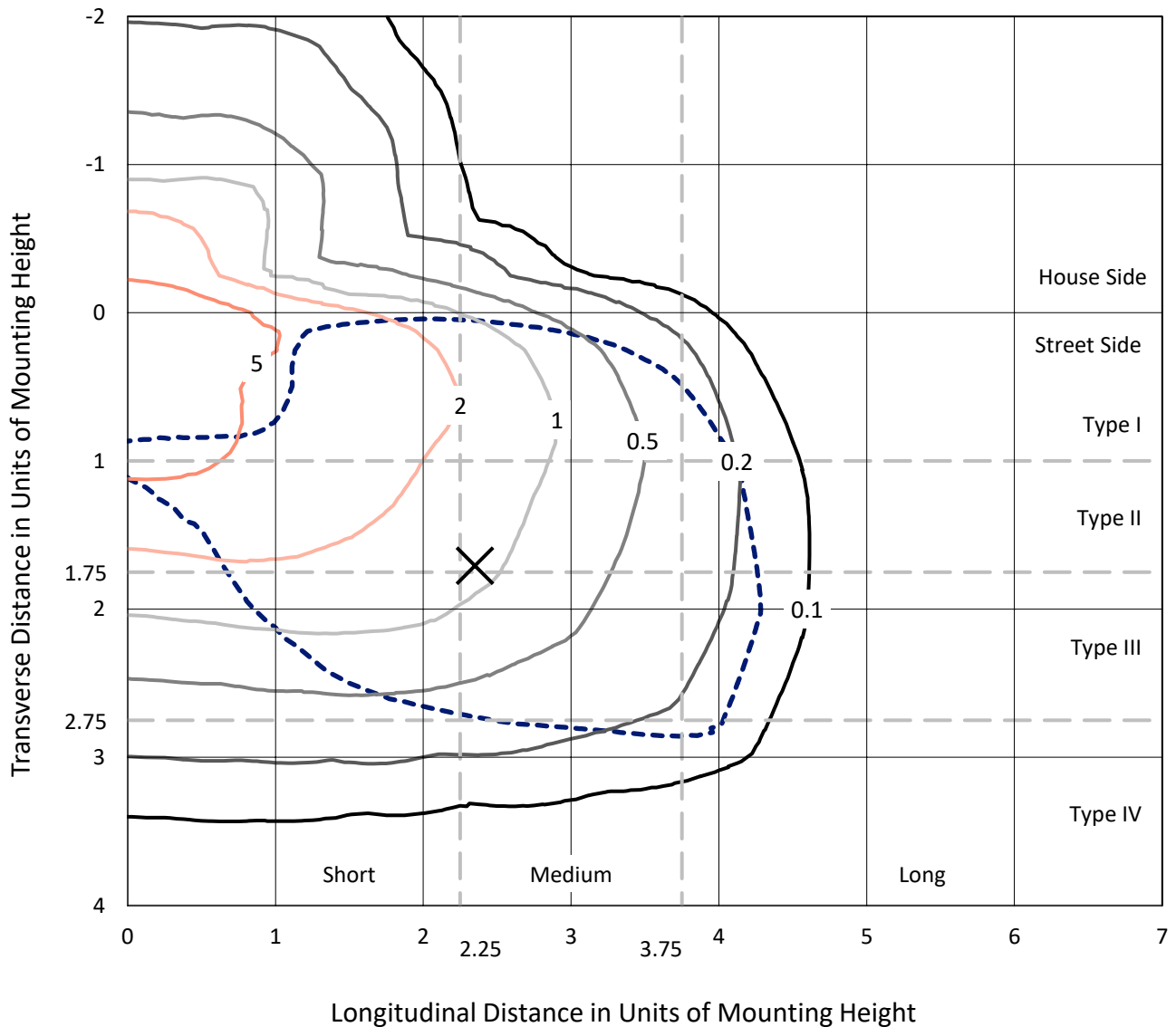
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

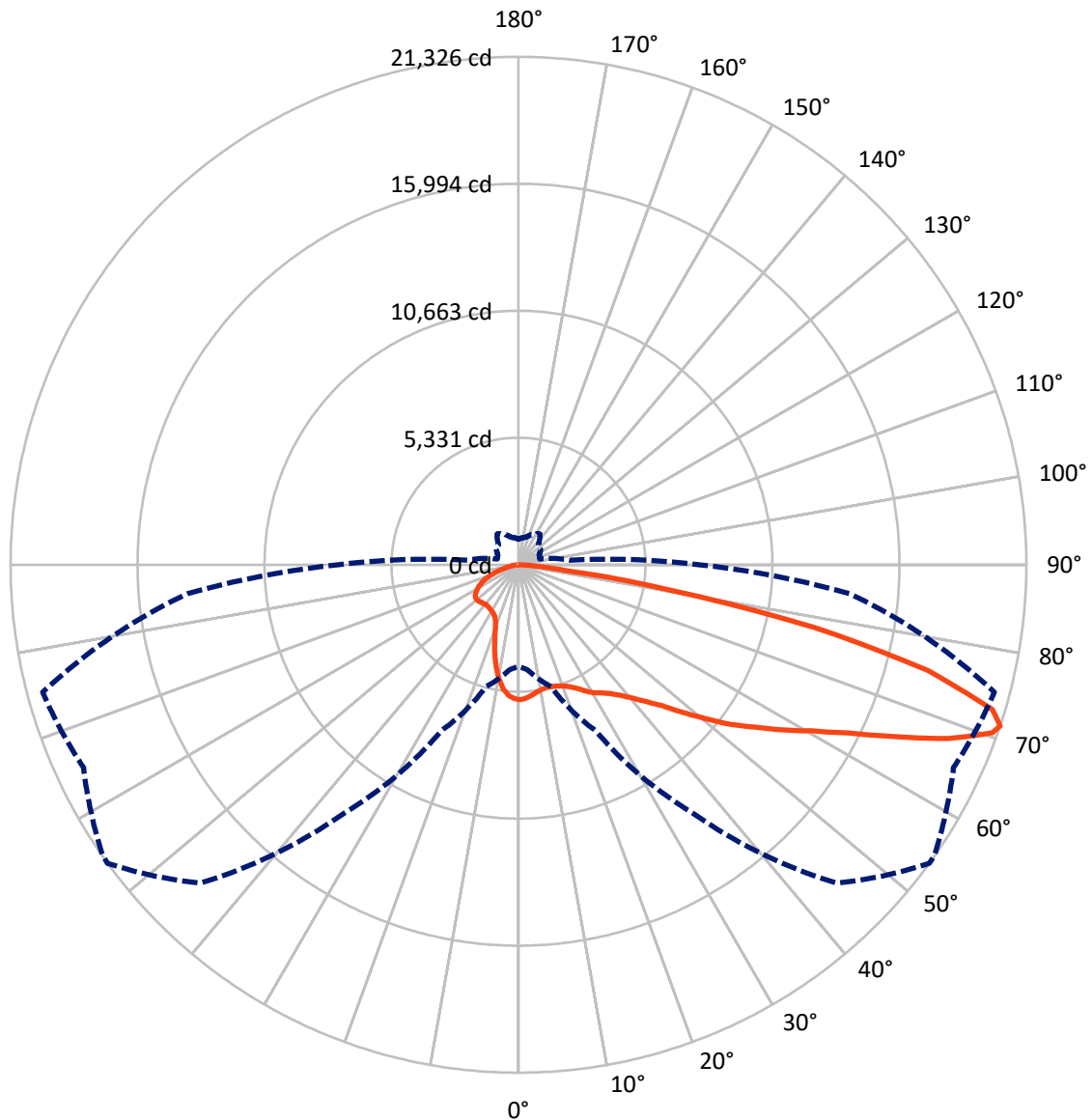
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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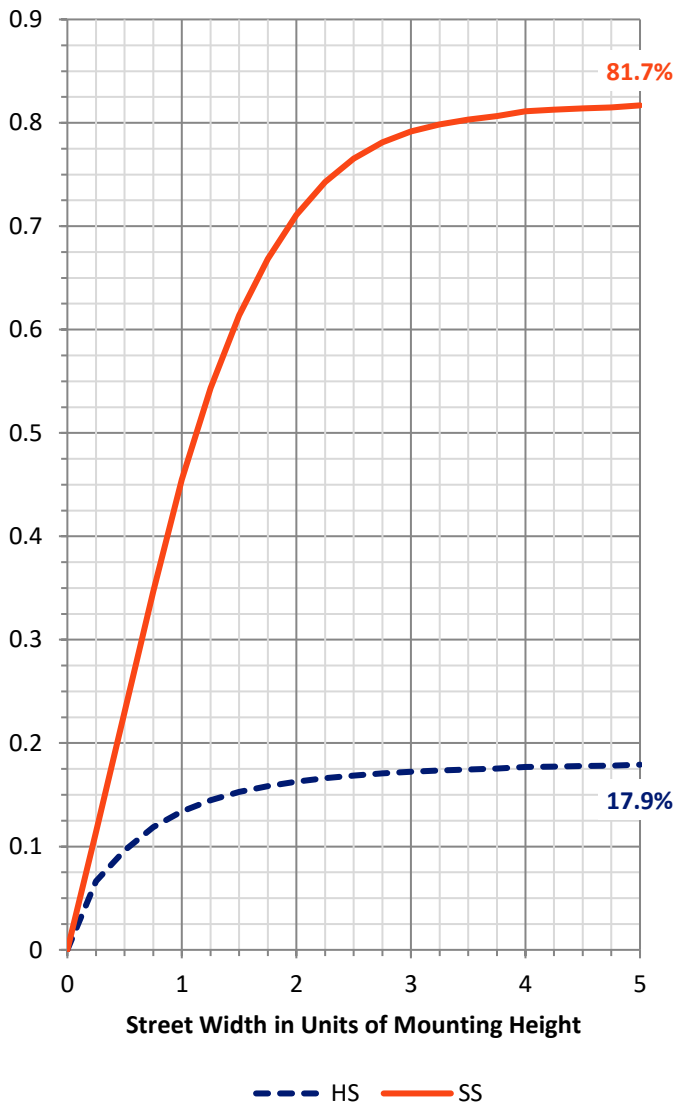
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5733.5	0.0	5733.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26023.4	0.0	26023.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	31756.9	0.0	31756.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.9	1.6
10°-20°	1333.2	4.2
20°-30°	2219.9	7.0
30°-40°	3282.5	10.3
40°-50°	4623.5	14.6
50°-60°	6191.1	19.5
60°-70°	7803.4	24.6
70°-80°	5329.7	16.8
80°-90°	468.7	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°	31756.9	100.0
0°-180°	31756.9	100.0

**Coefficient of Utilization**

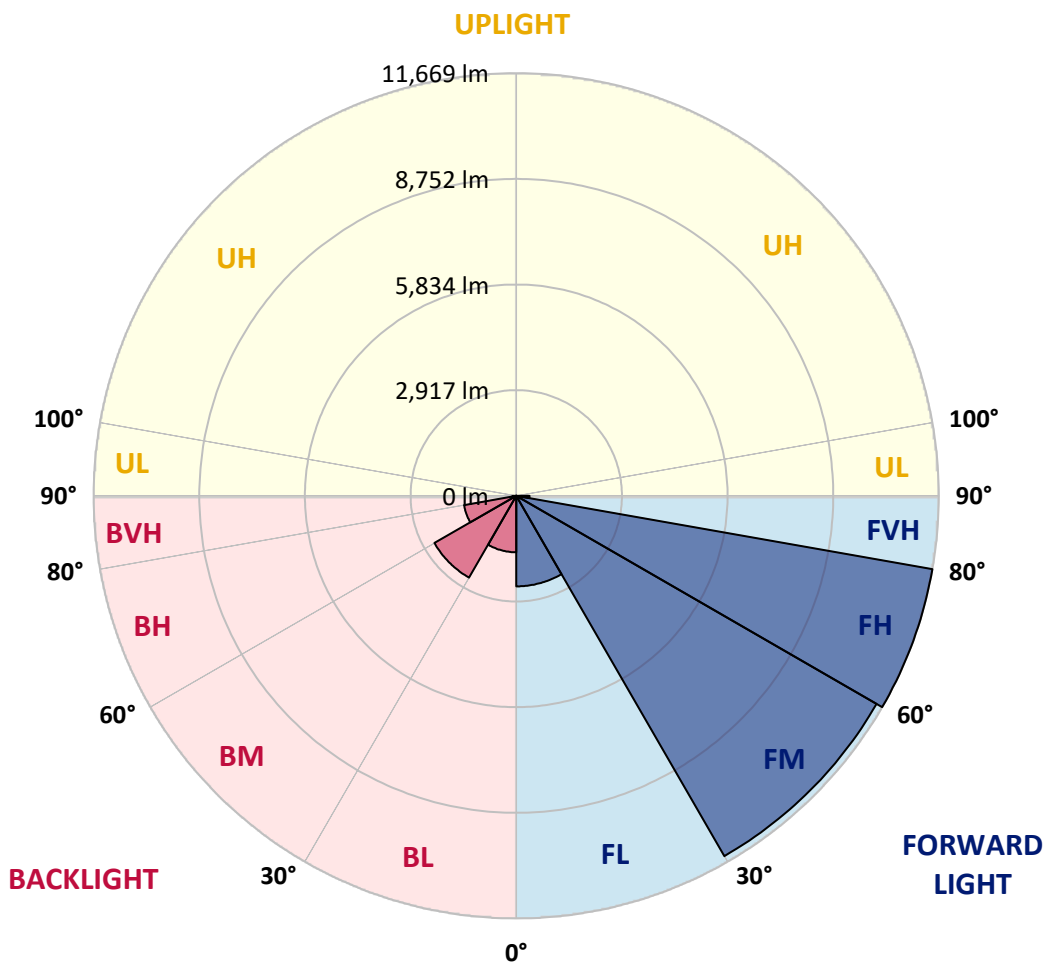


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.8	7.9			
FM (30°-60°)	11488.5	36.2			
FH (60°-80°)	11668.7	36.7			G4/12000
FVH (80°-90°)	366.4	1.2			G3/500
BL (0°-30°)	1558.3	4.9	B3/2500		
BM (30°-60°)	2608.6	8.2	B3/5000		
BH (60°-80°)	1464.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	102.3	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-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9
2.5°	5473.8	5499.5	5506.4	5523.5	5559.5	5588.7	5617.9	5614.4	5655.6	5672.8	5688.2
5°	5230.2	5237.1	5262.8	5297.1	5360.6	5441.2	5520.1	5521.8	5623.0	5703.6	5743.1
7.5°	5051.8	5074.1	5091.2	5127.2	5194.2	5281.6	5406.8	5417.2	5597.3	5756.9	5840.9
10°	4935.2	4960.9	4979.7	5024.4	5091.2	5189.0	5324.6	5343.4	5578.4	5840.9	5988.4
12.5°	4828.8	4854.5	4871.7	4930.0	5017.5	5137.6	5290.3	5312.5	5585.3	5938.7	6149.6
15°	4894.0	4914.6	4907.7	4924.8	4983.2	5120.4	5304.0	5326.3	5611.0	6033.0	6309.2
17.5°	5183.9	5201.0	5144.5	5079.2	5051.8	5153.0	5346.9	5370.8	5662.5	6130.7	6472.1
20°	5611.0	5657.3	5533.9	5388.0	5256.0	5269.7	5436.1	5461.7	5734.5	6228.5	6638.5
22.5°	6166.8	6201.1	6050.2	5810.0	5566.4	5441.2	5569.9	5585.3	5842.6	6355.5	6820.3
25°	6820.3	6840.9	6631.7	6322.9	5971.2	5734.5	5753.4	5780.8	6021.0	6499.6	6981.6
27.5°	7455.0	7520.2	7278.4	6901.0	6437.8	6043.3	6005.5	6022.7	6214.8	6580.2	7093.1
30°	8208.1	8202.9	7947.4	7509.9	6916.4	6379.5	6244.0	6240.6	6319.4	6619.6	7173.7
32.5°	8808.5	8878.8	8628.3	8151.5	7463.6	6727.7	6408.7	6401.8	6400.1	6688.3	7293.8
35°	9491.2	9501.5	9271.7	8791.3	8055.4	7165.2	6638.5	6604.2	6564.8	6835.8	7456.7
37.5°	10101.9	10149.9	9938.9	9400.3	8637.0	7619.7	6954.1	6931.8	6811.8	7091.4	7717.5
40°	10578.7	10614.7	10487.8	9975.0	9209.9	8110.3	7355.6	7314.4	7168.6	7509.9	8065.7
42.5°	10734.9	10808.6	10858.3	10606.2	9868.6	8691.8	7849.6	7798.1	7686.6	8144.6	8467.1
45°	10746.8	10863.5	11126.0	11137.9	10530.7	9388.2	8425.9	8389.9	8381.4	8957.8	9031.5
47.5°	10655.9	10774.3	11215.1	11453.6	11120.8	10091.6	9257.9	9201.3	9206.4	9963.0	9664.5
50°	10436.4	10577.1	11112.3	11656.1	11582.2	10822.3	10136.2	10117.3	10223.7	11110.5	10321.4
52.5°	10022.9	10192.8	11005.8	11783.0	11925.3	11451.9	11134.6	11081.3	11350.7	12355.9	11040.2
55°	8878.8	9134.4	10616.5	11853.3	12251.3	12054.0	12033.4	12129.5	12486.3	13714.5	11831.0
57.5°	8281.9	8474.0	9770.8	11865.3	12662.9	12753.9	13083.2	13107.3	13731.6	15157.1	12724.7
60°	7955.9	8125.7	9307.7	11786.4	13237.6	13620.1	14157.0	14242.8	14947.9	16719.8	13651.0
62.5°	7671.2	7817.0	9029.8	11513.6	13886.0	14905.0	15548.2	15589.4	16328.7	18445.5	14565.3
65°	7000.5	7166.9	8470.6	11240.9	14445.3	16510.6	17394.0	17346.0	17798.8	19934.5	15138.2
67.5°	6096.4	6307.5	7425.9	10299.1	14721.4	18265.4	19473.0	19413.0	19250.0	20910.5	15303.0
70°	4942.0	5055.2	6089.6	8671.3	13618.4	19186.6	21114.6	21051.2	20148.9	21039.1	14524.1
71°	4252.4	4429.1	5302.2	7702.1	12700.7	18905.2	21325.6	21308.5	20150.6	20684.0	13937.5
72.5°	3319.3	3427.3	4199.2	5967.8	10794.9	17306.5	20804.2	20869.3	19713.1	19697.7	12728.1
75°	2099.6	2147.7	2634.8	3513.1	5923.2	12256.4	17759.3	17936.0	17503.7	16122.8	9465.5
77.5°	1219.6	1281.4	1578.1	2070.5	2559.3	6652.2	12707.5	12899.7	12162.0	8877.1	3875.1
80°	710.2	778.8	1039.5	1202.5	1175.0	2468.4	6470.4	6798.1	5266.2	2242.0	1087.6
82.5°	394.6	440.8	730.8	732.5	626.1	806.3	2036.2	2130.5	1502.7	904.0	444.3
85°	286.5	324.2	471.8	427.1	300.2	346.5	708.5	742.8	607.2	380.9	144.1
87.5°	101.2	144.1	259.0	205.9	82.4	72.0	204.1	166.4	154.4	106.3	32.6
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°	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9	5665.9
2.5°	5696.8	5700.2	5683.1	5652.2	5621.3	5581.9	5537.2	5502.9	5487.5	5485.8	5484.1
5°	5758.5	5767.1	5702.0	5605.9	5499.5	5369.1	5257.6	5130.7	5098.1	5046.7	5062.1
7.5°	5858.0	5852.8	5724.2	5520.1	5271.4	4995.2	4761.9	4626.4	4485.7	4446.3	4448.0
10°	6000.4	5967.8	5724.2	5345.1	4930.0	4520.0	4194.1	3988.3	3876.8	3784.2	3749.8
12.5°	6151.3	6069.0	5669.3	5099.8	4490.9	3988.3	3638.3	3360.4	3288.4	3212.9	3214.6
15°	6295.5	6158.2	5561.3	4755.0	4017.4	3420.5	3080.8	2914.4	2892.2	2900.7	2899.0
17.5°	6425.8	6221.7	5396.6	4370.8	3465.1	2933.3	2753.2	2765.2	2825.2	2868.1	2873.3
20°	6557.9	6259.5	5151.3	3856.2	2943.6	2638.2	2645.1	2739.5	2830.4	2888.7	2897.3
22.5°	6683.1	6276.6	4863.1	3358.7	2566.2	2513.0	2614.2	2715.4	2804.6	2861.2	2869.9
25°	6765.4	6237.1	4454.9	2838.9	2380.9	2468.4	2574.8	2660.6	2736.0	2794.4	2808.1
27.5°	6787.7	6110.2	3948.8	2418.7	2295.2	2425.6	2523.3	2586.8	2645.1	2700.0	2710.3
30°	6775.8	5923.2	3393.1	2171.7	2245.4	2375.8	2451.3	2497.6	2567.9	2610.8	2619.4
32.5°	6756.9	5705.3	2813.2	2039.6	2204.3	2329.5	2374.1	2415.2	2413.5	2396.4	2408.4
35°	6763.7	5444.6	2343.2	1960.7	2168.2	2295.2	2332.9	2281.4	2133.9	2127.1	2120.2
37.5°	6799.8	5187.3	2001.8	1905.8	2149.3	2290.0	2310.6	2073.9	1943.6	1883.5	1868.1
40°	6892.4	4887.1	1777.1	1864.6	2147.7	2329.5	2209.4	1969.2	1718.8	1602.2	1593.6
42.5°	7015.9	4592.1	1639.9	1838.9	2168.2	2389.6	2168.2	1821.7	1549.0	1480.3	1470.1
45°	7199.5	4254.1	1564.4	1826.9	2199.1	2411.8	2154.5	1713.7	1480.3	1425.5	1425.5
47.5°	7407.0	3931.7	1523.2	1818.3	2238.6	2396.4	2032.7	1679.4	1447.8	1454.7	1487.2
50°	7612.9	3652.1	1492.4	1799.4	2272.9	2387.8	1982.9	1677.7	1456.4	1543.8	1602.2
52.5°	7851.3	3454.8	1454.7	1768.6	2272.9	2332.9	1967.5	1712.0	1480.3	1506.1	1531.9
55°	8139.5	3393.1	1406.6	1701.7	2231.7	2195.7	1959.0	1761.7	1497.6	1437.5	1447.8
57.5°	8520.3	3492.5	1360.3	1617.6	2137.4	2053.3	1955.5	1775.5	1458.1	1408.3	1398.0
60°	8962.8	3689.8	1346.6	1531.9	2008.7	1931.5	1934.9	1736.0	1403.2	1351.7	1360.3
62.5°	9273.4	3808.1	1338.0	1466.6	1868.1	1797.7	1885.2	1687.9	1379.2	1334.5	1343.2
65°	9273.4	3664.0	1259.1	1367.2	1686.2	1636.5	1825.2	1627.9	1348.3	1296.8	1288.3
67.5°	8921.7	3243.8	1139.0	1218.0	1485.5	1452.9	1741.1	1555.8	1302.0	1262.5	1241.9
70°	8005.7	2459.9	988.1	1043.0	1231.7	1260.8	1633.0	1458.1	1224.8	1176.8	1145.8
71°	7602.5	2142.5	924.6	953.8	1133.9	1176.8	1581.6	1416.9	1190.5	1121.9	1067.0
72.5°	6825.5	1804.6	828.5	840.6	969.2	1046.4	1473.5	1338.0	1125.3	1027.5	965.8
75°	5185.6	1317.4	667.3	660.5	717.0	830.2	1247.1	1192.2	986.3	854.3	818.2
77.5°	2240.3	717.0	499.2	504.3	487.2	629.5	981.2	1024.1	845.7	694.8	662.1
80°	679.3	413.4	341.4	348.2	325.9	422.0	691.3	802.8	679.3	540.3	495.7
82.5°	348.2	247.0	233.3	229.9	207.6	238.4	418.6	548.9	485.5	337.9	298.5
85°	151.0	132.1	114.9	111.5	97.8	85.7	149.2	274.4	257.3	188.7	180.1
87.5°	37.7	34.3	22.3	20.6	12.0	1.7	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)