

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: P647082

Luminaire Tested: **GALN-SA7C-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647082  
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-SA7C-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39236.9 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

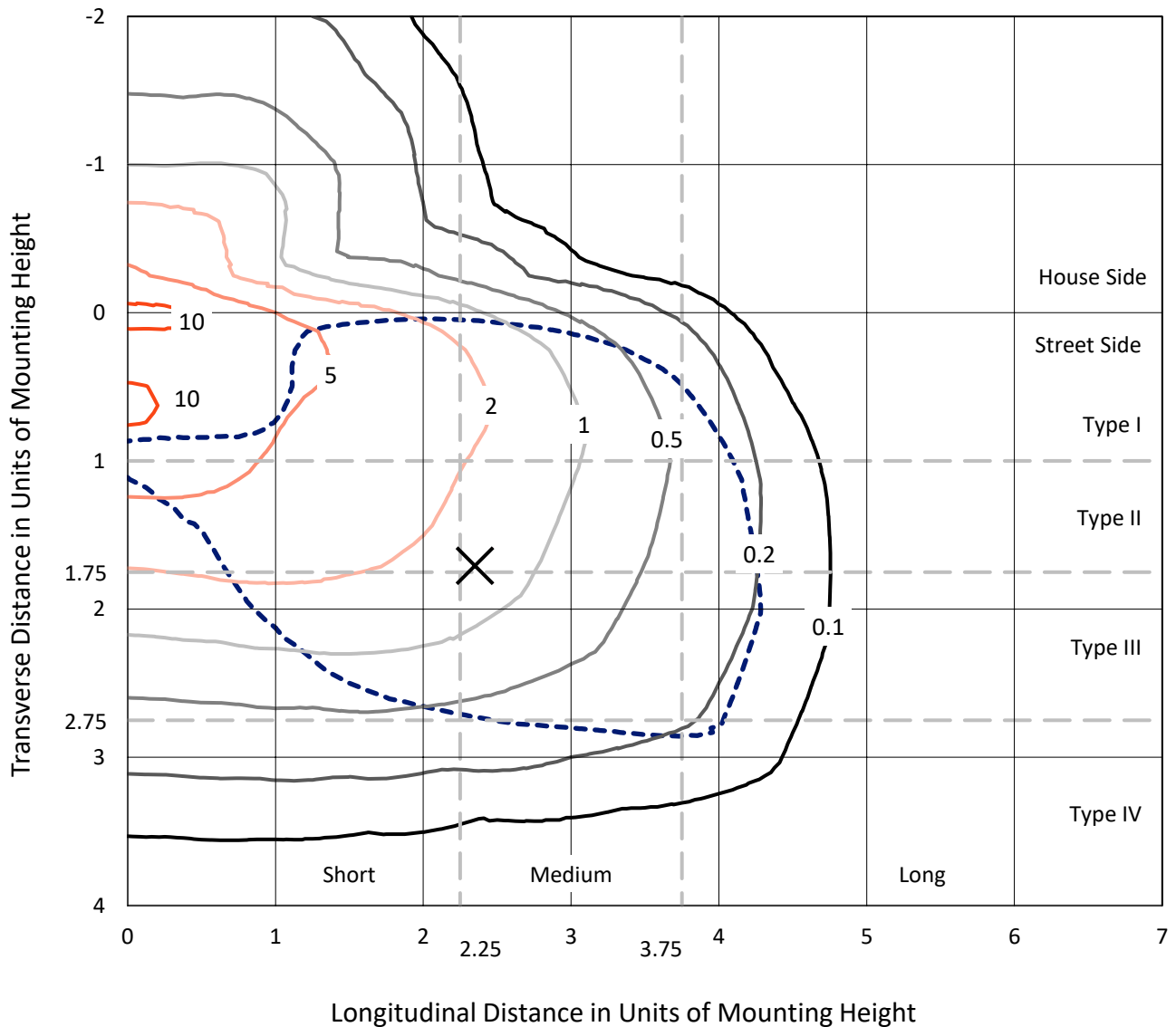
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

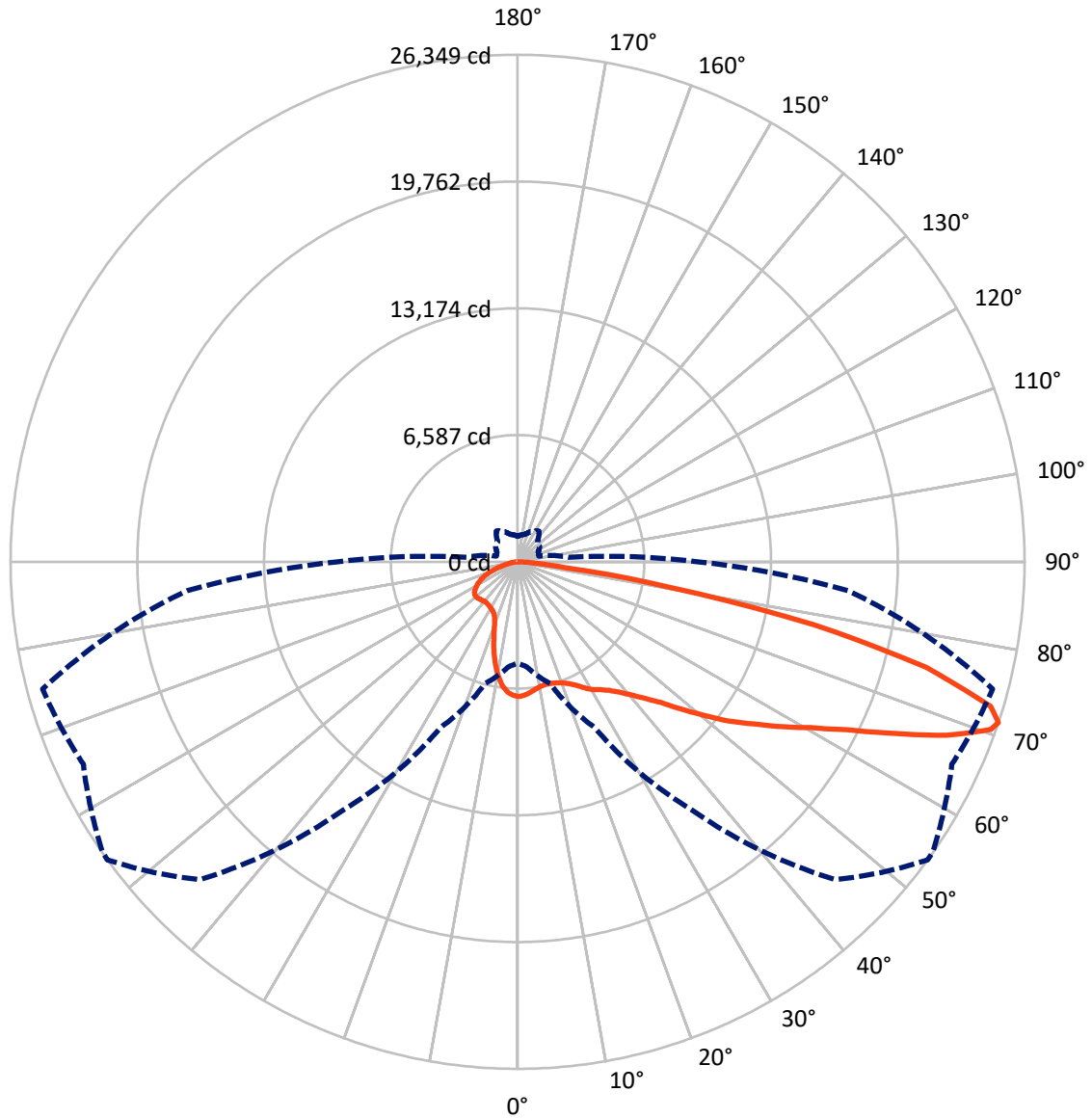
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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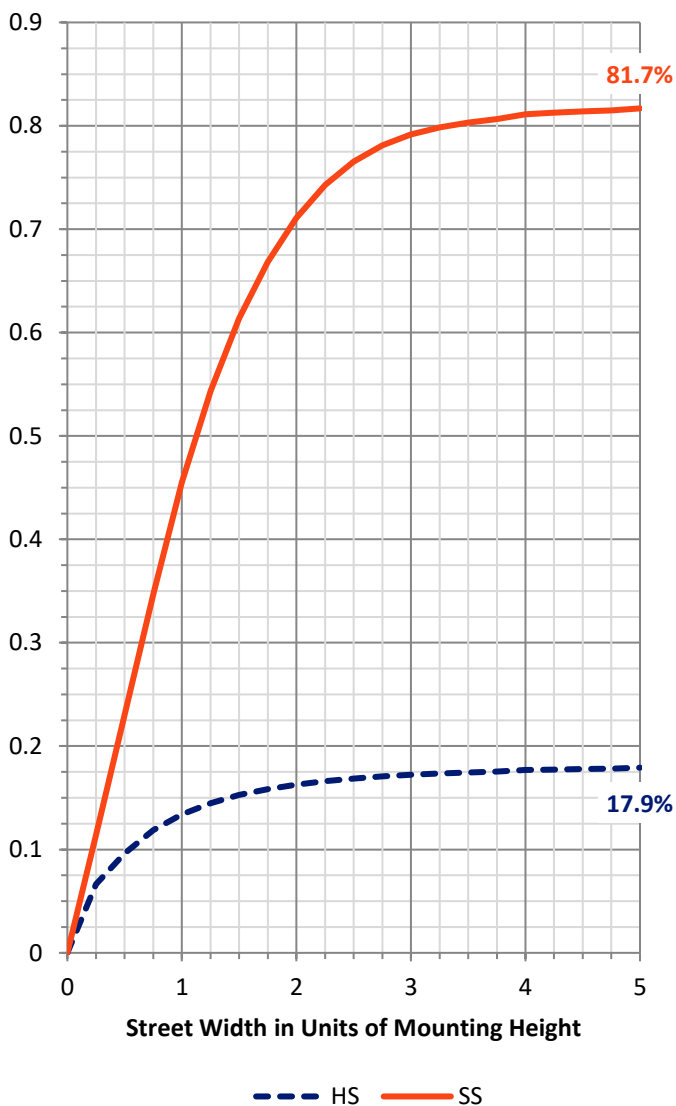
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7084.0	0.0	7084.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	32152.9	0.0	32152.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	39236.9	0.0	39236.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.8	1.6
10°-20°	1647.3	4.2
20°-30°	2742.8	7.0
30°-40°	4055.7	10.3
40°-50°	5712.5	14.6
50°-60°	7649.3	19.5
60°-70°	9641.4	24.6
70°-80°	6585.0	16.8
80°-90°	579.1	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°	39236.9	100.0
0°-180°	39236.9	100.0

**Coefficient of Utilization**

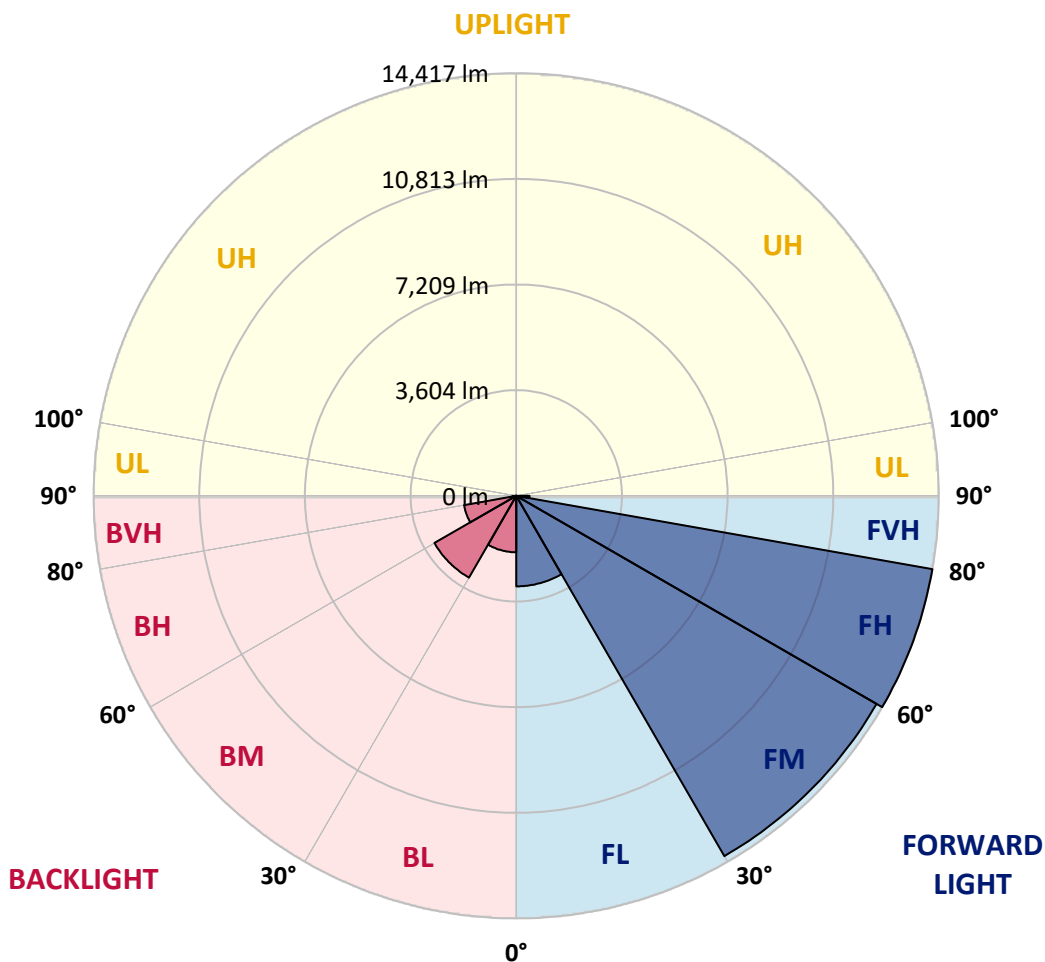


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3088.6	7.9			
FM (30°-60°)	14194.5	36.2			
FH (60°-80°)	14417.2	36.7			G5
FVH (80°-90°)	452.7	1.2			G3/500
BL (0°-30°)	1925.3	4.9	B3/2500		
BM (30°-60°)	3223.0	8.2	B3/5000		
BH (60°-80°)	1809.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	126.4	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°	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4
2.5°	6763.1	6794.9	6803.3	6824.5	6869.0	6905.0	6941.1	6936.8	6987.7	7008.9	7028.0
5°	6462.1	6470.6	6502.3	6544.8	6623.2	6722.8	6820.3	6822.4	6947.5	7047.1	7095.9
7.5°	6241.7	6269.2	6290.5	6334.9	6417.6	6525.7	6680.4	6693.2	6915.7	7112.8	7216.6
10°	6097.5	6129.4	6152.7	6207.8	6290.5	6411.3	6578.7	6602.0	6892.4	7216.6	7398.9
12.5°	5966.1	5997.9	6019.2	6091.2	6199.3	6347.7	6536.3	6563.8	6900.8	7337.4	7598.2
15°	6046.7	6072.2	6063.6	6084.8	6156.9	6326.5	6553.2	6580.8	6932.6	7454.0	7795.2
17.5°	6404.9	6426.1	6356.2	6275.6	6241.7	6366.7	6606.2	6635.9	6996.2	7574.8	7996.5
20°	6932.6	6989.8	6837.2	6657.1	6493.9	6510.9	6716.4	6748.2	7085.2	7695.6	8202.2
22.5°	7619.3	7661.7	7475.2	7178.5	6877.6	6722.8	6881.8	6900.8	7218.7	7852.5	8426.8
25°	8426.8	8452.3	8193.7	7812.1	7377.7	7085.2	7108.5	7142.4	7439.2	8030.4	8626.1
27.5°	9211.0	9291.5	8992.7	8526.4	7954.2	7466.7	7420.1	7441.3	7678.6	8130.1	8763.8
30°	10141.4	10135.1	9819.3	9278.8	8545.5	7882.1	7714.7	7710.4	7807.9	8178.8	8863.4
32.5°	10883.2	10970.1	10660.7	10071.5	9221.6	8312.4	7918.2	7909.7	7907.6	8263.6	9011.8
35°	11726.8	11739.4	11455.4	10862.0	9952.8	8852.8	8202.2	8159.8	8111.0	8445.9	9213.1
37.5°	12481.3	12540.6	12279.9	11614.4	10671.3	9414.5	8592.1	8564.6	8416.2	8761.7	9535.3
40°	13070.5	13114.9	12958.1	12324.4	11379.2	10020.6	9088.0	9037.2	8857.1	9278.8	9965.6
42.5°	13263.3	13354.5	13415.9	13104.4	12193.0	10739.1	9698.5	9634.9	9497.1	10063.0	10461.4
45°	13278.2	13422.3	13746.6	13761.4	13011.1	11599.6	10410.6	10366.1	10355.5	11067.6	11158.8
47.5°	13165.8	13312.1	13856.8	14151.4	13740.2	12468.6	11438.5	11368.5	11375.0	12309.6	11940.8
50°	12894.5	13068.3	13729.6	14401.5	14310.3	13371.4	12523.7	12500.4	12631.7	13727.5	12752.6
52.5°	12383.8	12593.6	13598.2	14558.3	14734.2	14149.3	13757.2	13691.5	14024.2	15266.2	13640.6
55°	10970.1	11285.9	13117.1	14645.2	15136.9	14893.1	14867.8	14986.4	15427.3	16944.7	14617.7
57.5°	10232.6	10470.0	12072.2	14660.0	15645.6	15757.9	16164.8	16194.5	16966.0	18727.2	15721.9
60°	9829.9	10039.7	11500.0	14562.5	16355.5	16828.2	17491.6	17597.5	18468.6	20658.0	16866.4
62.5°	9478.1	9658.2	11156.7	14225.5	17156.7	18415.6	19210.4	19261.3	20174.8	22790.2	17996.0
65°	8649.3	8854.9	10465.7	13888.5	17847.6	20399.4	21490.9	21431.6	21991.1	24629.8	18703.9
67.5°	7532.4	7793.1	9175.0	12725.0	18188.9	22567.6	24059.6	23985.5	23784.2	25835.7	18907.3
70°	6106.1	6245.9	7523.9	10713.6	16826.0	23705.7	26087.9	26009.5	24894.7	25994.7	17945.1
71°	5254.0	5472.3	6551.1	9516.2	15692.2	23358.1	26348.7	26327.4	24896.8	25555.9	17220.3
72.5°	4101.0	4234.6	5188.3	7373.4	13337.5	21382.9	25704.3	25784.9	24356.4	24337.3	15726.1
75°	2594.2	2653.5	3255.4	4340.6	7318.4	15143.3	21942.4	22160.7	21626.5	19920.5	11695.0
77.5°	1506.9	1583.2	1949.9	2558.1	3162.1	8219.2	15700.6	15938.0	15026.7	10968.0	4787.8
80°	877.4	962.2	1284.4	1485.7	1451.8	3049.9	7994.4	8399.2	6506.7	2770.1	1343.7
82.5°	487.5	544.7	902.9	905.0	773.6	996.1	2515.8	2632.3	1856.6	1116.9	549.0
85°	353.9	400.6	582.9	527.7	370.9	428.1	875.3	917.7	750.3	470.5	178.1
87.5°	125.0	178.1	320.0	254.3	101.7	89.0	252.2	205.6	190.7	131.4	40.2
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°	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4	7000.4
2.5°	7038.6	7042.9	7021.6	6983.5	6945.4	6896.6	6841.5	6799.1	6780.0	6777.9	6775.8
5°	7114.9	7125.5	7045.0	6926.3	6794.9	6633.8	6496.0	6339.2	6298.9	6235.3	6254.4
7.5°	7237.8	7231.5	7072.5	6820.3	6513.0	6171.8	5883.5	5716.1	5542.3	5493.5	5495.6
10°	7413.8	7373.4	7072.5	6604.1	6091.2	5584.7	5182.0	4927.7	4789.9	4675.4	4633.1
12.5°	7600.3	7498.5	7004.7	6301.0	5548.7	4927.7	4495.3	4151.9	4062.9	3969.7	3971.8
15°	7778.2	7608.7	6871.1	5875.0	4963.7	4226.1	3806.5	3600.9	3573.4	3583.9	3581.8
17.5°	7939.4	7687.1	6667.7	5400.3	4281.2	3624.2	3401.7	3416.5	3490.7	3543.7	3550.0
20°	8102.6	7733.8	6364.6	4764.5	3637.0	3259.7	3268.2	3384.8	3497.0	3569.1	3579.7
22.5°	8257.3	7755.0	6008.6	4149.8	3170.7	3105.0	3230.0	3355.1	3465.2	3535.2	3545.8
25°	8359.0	7706.2	5504.1	3507.6	2941.7	3049.9	3181.3	3287.2	3380.4	3452.6	3469.5
27.5°	8386.6	7549.4	4878.9	2988.4	2835.8	2996.9	3117.7	3196.0	3268.2	3336.0	3348.7
30°	8371.7	7318.4	4192.2	2683.2	2774.3	2935.4	3028.6	3085.9	3172.8	3225.7	3236.4
32.5°	8348.4	7049.2	3475.8	2520.0	2723.4	2878.2	2933.3	2984.2	2982.1	2960.8	2975.6
35°	8356.9	6727.1	2895.1	2422.5	2679.0	2835.8	2882.4	2818.8	2636.6	2628.1	2619.6
37.5°	8401.4	6409.1	2473.3	2354.6	2655.6	2829.4	2854.9	2562.4	2401.3	2327.2	2308.0
40°	8515.8	6038.3	2195.7	2303.8	2653.5	2878.2	2729.9	2433.1	2123.7	1979.5	1968.9
42.5°	8668.4	5673.7	2026.2	2272.0	2679.0	2952.4	2679.0	2250.8	1913.8	1829.1	1816.3
45°	8895.2	5256.2	1932.9	2257.2	2717.1	2979.9	2662.0	2117.3	1829.1	1761.2	1761.2
47.5°	9151.6	4857.7	1882.0	2246.6	2765.9	2960.8	2511.6	2075.0	1788.8	1797.3	1837.5
50°	9406.0	4512.3	1843.9	2223.3	2808.2	2950.3	2450.1	2072.8	1799.4	1907.5	1979.5
52.5°	9700.6	4268.5	1797.3	2185.1	2808.2	2882.4	2431.0	2115.2	1829.1	1860.9	1892.7
55°	10056.6	4192.2	1737.9	2102.4	2757.3	2712.9	2420.4	2176.7	1850.2	1776.1	1788.8
57.5°	10527.2	4315.1	1680.7	1998.6	2640.8	2536.9	2416.1	2193.6	1801.5	1740.1	1727.3
60°	11074.0	4558.9	1663.7	1892.7	2481.9	2386.5	2390.7	2144.9	1733.7	1670.1	1680.7
62.5°	11457.6	4705.1	1653.1	1812.1	2308.0	2221.1	2329.3	2085.5	1704.0	1648.9	1659.5
65°	11457.6	4527.1	1555.7	1689.2	2083.4	2021.9	2255.0	2011.3	1665.8	1602.3	1591.7
67.5°	11023.1	4007.8	1407.3	1504.8	1835.4	1795.2	2151.2	1922.3	1608.7	1559.9	1534.4
70°	9891.3	3039.2	1220.8	1288.6	1521.8	1557.8	2017.7	1801.5	1513.3	1454.0	1415.7
71°	9393.3	2647.2	1142.4	1178.4	1400.9	1454.0	1954.1	1750.6	1470.9	1386.1	1318.3
72.5°	8433.1	2229.6	1023.7	1038.5	1197.4	1292.8	1820.6	1653.1	1390.4	1269.6	1193.2
75°	6407.0	1627.7	824.4	816.0	885.9	1025.8	1540.8	1473.0	1218.7	1055.5	1010.9
77.5°	2768.0	885.9	616.8	623.1	601.9	777.8	1212.3	1265.3	1044.9	858.4	818.1
80°	839.3	510.8	421.8	430.3	402.7	521.4	854.1	991.9	839.3	667.6	612.5
82.5°	430.3	305.2	288.2	284.0	256.4	294.6	517.2	678.2	599.8	417.5	368.8
85°	186.5	163.2	142.0	137.7	120.8	105.9	184.4	339.1	317.9	233.1	222.5
87.5°	46.6	42.4	27.6	25.4	14.8	2.1	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)