

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: P952713

Luminaire Tested: **GALN-SB6C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41169 lumens
Efficiency: N/A
Efficacy: 136.8 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): 300.9
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

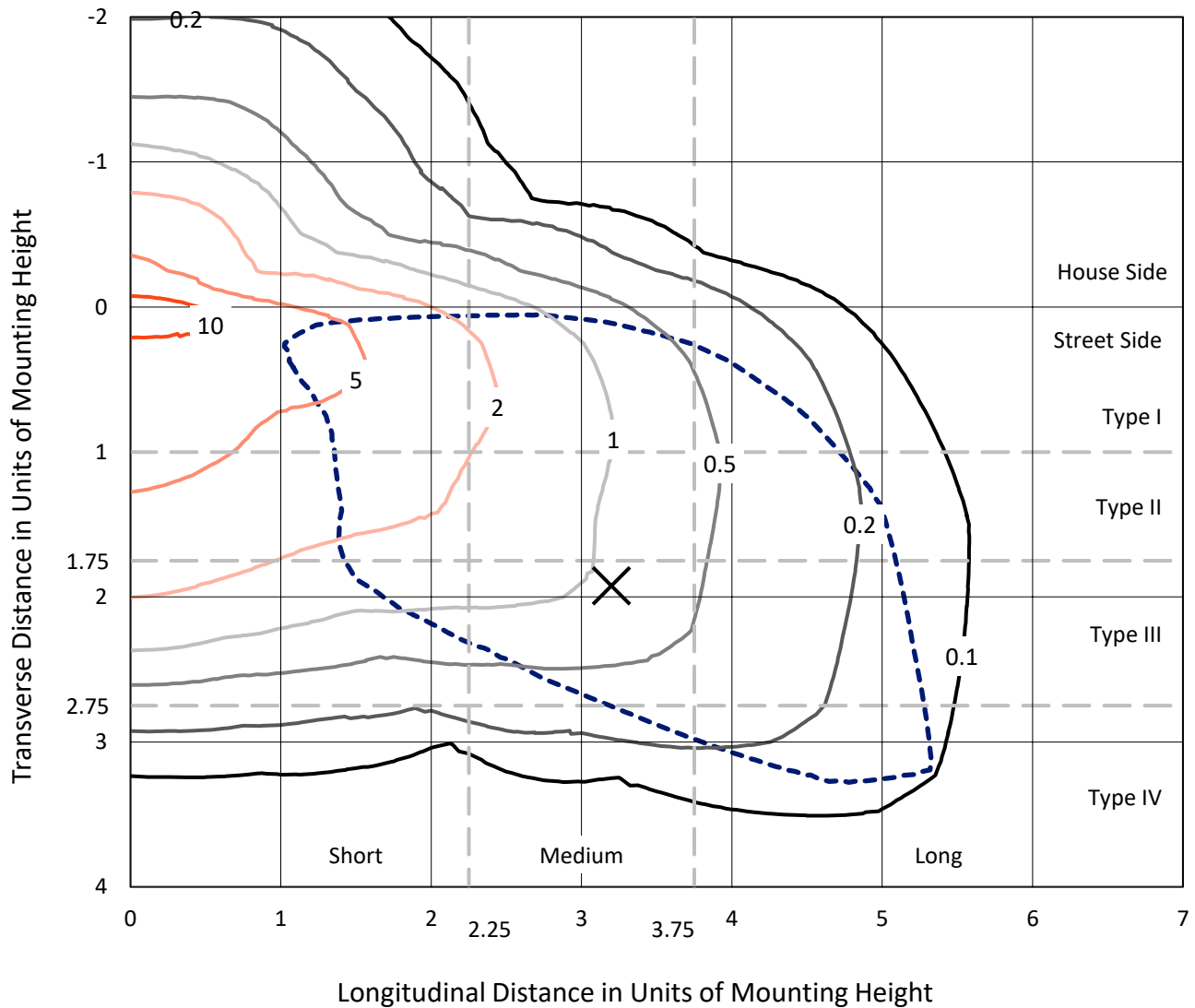


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Iso-Footcandle Lines of Horizontal Illumination

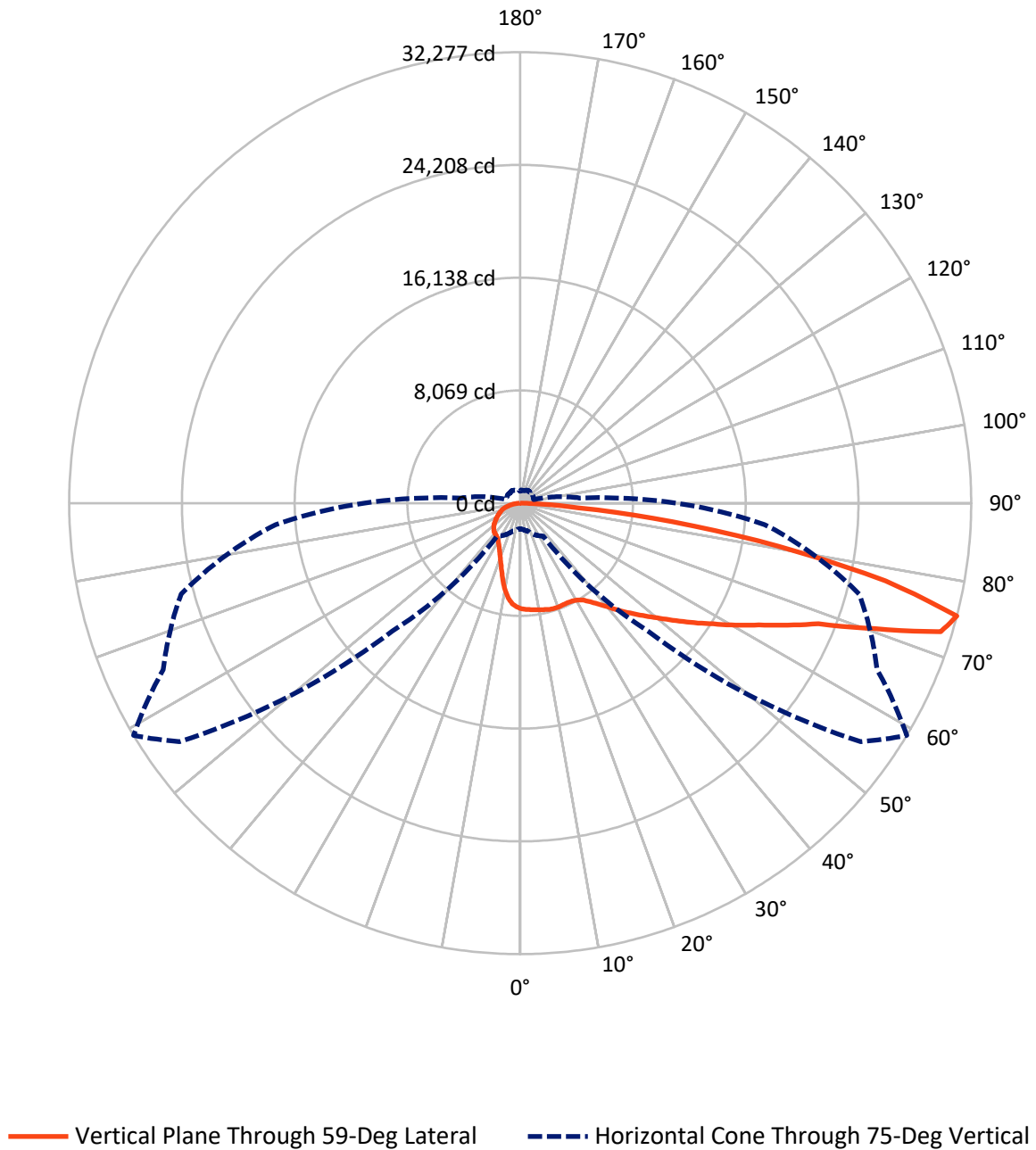
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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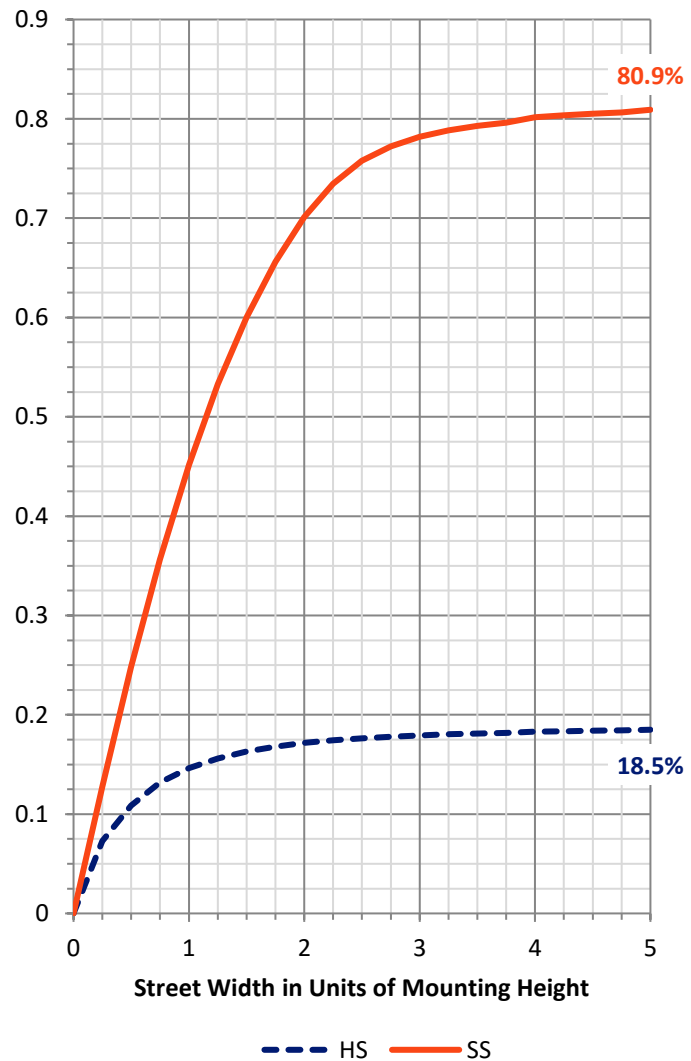
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7721.5	0.0	7721.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33447.5	0.0	33447.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	41169.0	0.0	41169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.6	1.6
10°-20°	1731.9	4.2
20°-30°	2630.6	6.4
30°-40°	3910.3	9.5
40°-50°	5815.3	14.1
50°-60°	7893.6	19.2
60°-70°	9636.8	23.4
70°-80°	7562.8	18.4
80°-90°	1310.1	3.2
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°	41169.0	100.0
0°-180°	41169.0	100.0

Coefficient of Utilization



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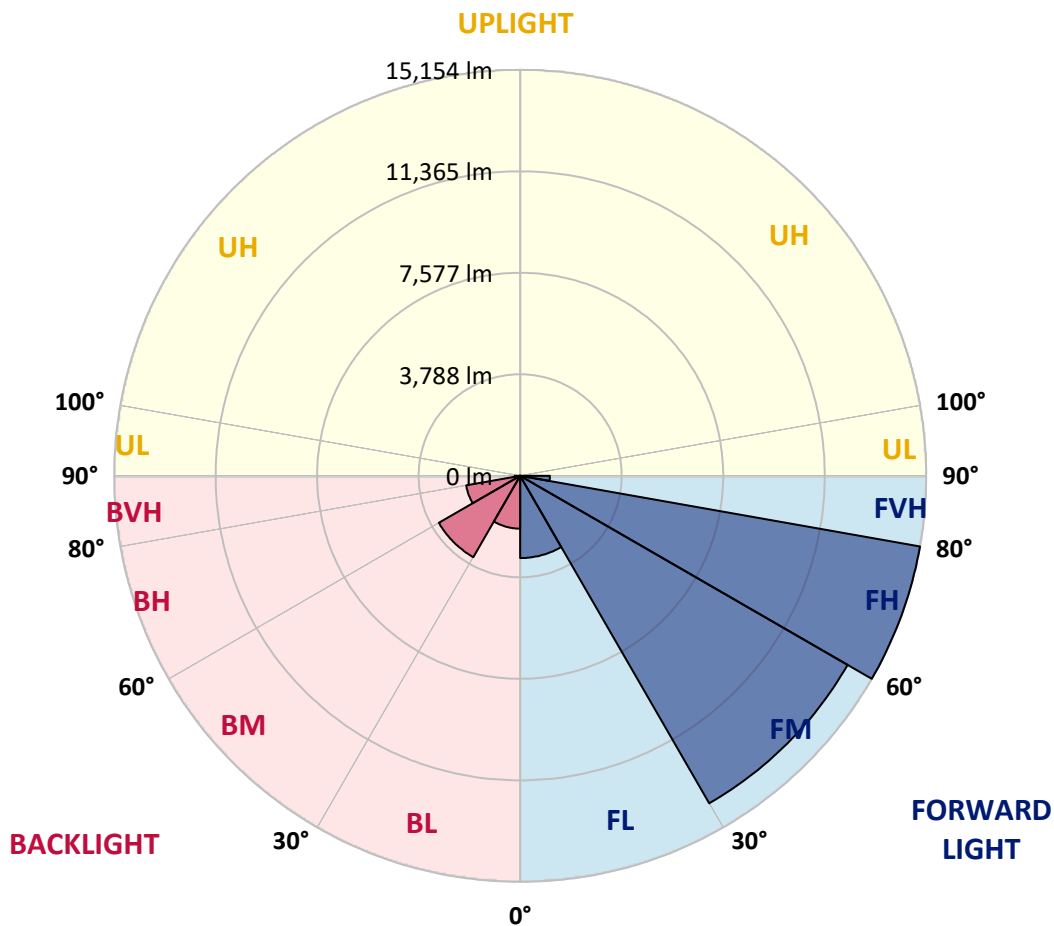
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3069.6	7.5			
FM	(30°-60°)	14114.4	34.3			
FH	(60°-80°)	15153.9	36.8			G5
FVH	(80°-90°)	1109.5	2.7			G5
BL	(0°-30°)	1970.4	4.8	B3/2500		
BM	(30°-60°)	3504.8	8.5	B3/5000		
BH	(60°-80°)	2045.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	200.5	0.5			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°	55°	59°	65°	75°	85°
0°	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5
2.5°	7620.7	7594.1	7620.7	7609.6	7605.2	7596.3	7598.6	7614.1	7605.2	7616.3	7578.6
5°	7569.8	7554.3	7580.8	7574.2	7603.0	7607.4	7636.2	7653.9	7665.0	7667.2	7638.4
7.5°	7485.6	7470.1	7507.8	7538.8	7600.8	7618.5	7678.3	7707.1	7722.6	7749.2	7707.1
10°	7177.8	7171.1	7264.1	7381.5	7527.7	7618.5	7709.3	7758.0	7782.4	7853.2	7804.5
12.5°	6633.0	6641.8	6763.6	6989.5	7281.9	7574.2	7744.7	7815.6	7853.2	7941.8	7919.7
15°	6112.5	6110.3	6243.2	6484.6	6894.3	7379.3	7762.4	7884.3	7948.5	8079.1	8061.4
17.5°	5811.3	5802.5	5895.5	6079.3	6460.2	7080.3	7718.1	7921.9	8059.2	8223.1	8207.6
20°	5755.9	5738.2	5787.0	5877.8	6147.9	6752.6	7603.0	7921.9	8147.8	8360.4	8351.5
22.5°	5957.5	5928.7	5908.8	5897.7	6017.3	6482.4	7472.3	7895.3	8278.5	8557.5	8542.0
25°	6362.8	6318.5	6216.6	6116.9	6081.5	6360.6	7357.2	7888.7	8473.4	8823.3	8765.7
27.5°	7018.3	6962.9	6757.0	6517.8	6303.0	6422.6	7306.2	7928.5	8688.2	9104.5	8989.4
30°	7831.1	7771.3	7512.2	7144.5	6759.2	6652.9	7370.4	8045.9	8962.8	9478.8	9252.9
32.5°	8559.7	8493.3	8271.8	7897.5	7377.1	7051.5	7574.2	8269.6	9394.7	9999.3	9649.3
35°	9206.4	9128.9	8929.6	8584.1	8134.5	7611.8	7941.8	8666.0	10008.1	10845.3	10187.5
37.5°	9839.8	9749.0	9532.0	9166.5	8852.1	8358.2	8449.0	9175.4	10823.1	11872.9	10900.6
40°	10548.5	10417.8	10154.3	9793.3	9487.7	9233.0	9115.6	9799.9	11651.4	13020.1	11790.9
42.5°	11235.1	11111.0	10796.6	10488.7	10105.6	10032.5	9888.5	10530.8	12557.2	14280.2	12694.5
45°	11974.8	11826.4	11445.5	11055.7	10814.3	10564.0	10637.1	11261.6	13445.3	15564.8	13642.4
47.5°	12668.0	12501.9	12052.3	11618.2	11485.3	11011.4	11323.6	12065.6	14368.8	16867.0	14581.4
50°	13042.2	12878.3	12504.1	12112.1	12008.0	11562.8	12067.8	12949.2	15336.6	18164.8	15482.8
52.5°	13354.5	13177.3	12687.9	12470.8	12439.8	12163.0	12984.7	13959.1	16304.5	19312.0	16353.2
55°	13686.7	13489.6	12865.1	12670.2	12811.9	12836.3	14072.1	15104.1	17327.6	20430.4	17174.8
57.5°	14069.8	13819.6	13035.6	12838.5	13175.1	13624.7	15321.1	16291.2	18333.1	21466.9	17905.7
60°	14430.8	14178.4	13363.4	13106.5	13567.1	14539.4	16754.0	17728.5	19471.4	22390.4	18596.6
62.5°	14501.7	14293.5	13624.7	13622.5	14098.6	15606.8	18450.5	19179.1	20465.8	23302.8	19216.8
65°	13274.8	13144.1	12747.7	13602.5	14860.5	17143.8	20339.6	21035.0	21730.4	24100.1	19761.6
67.5°	10103.4	10121.1	10092.3	11742.2	14244.8	19351.8	23074.7	23021.6	23291.8	24994.8	20388.3
70°	4619.8	4723.9	5401.6	8105.7	11412.2	19606.5	27597.1	26908.3	25251.7	26153.1	20930.9
72.5°	2495.9	2575.7	2852.5	3926.6	6861.1	17431.7	30976.7	31466.1	27858.4	26932.7	20335.2
75°	1831.5	1875.8	2068.5	2495.9	2881.3	12955.9	29765.3	32276.7	28184.0	25114.4	17560.2
77.5°	1370.9	1390.8	1548.1	1977.7	1475.0	6830.1	23783.4	26731.2	24126.7	20634.1	12971.4
80°	994.4	1016.5	1133.9	1483.8	1034.3	2498.2	16331.0	18762.7	16523.7	13153.0	6464.6
82.5°	686.5	695.4	746.3	1009.9	722.0	970.0	9266.2	11002.5	9224.1	4615.4	1745.2
85°	414.1	425.2	447.4	589.1	409.7	460.7	3999.7	4137.0	2757.3	1102.9	542.6
87.5°	170.5	181.6	199.3	248.0	161.7	128.5	660.0	828.3	516.0	323.3	168.3
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°	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5	7556.5
2.5°	7567.6	7552.0	7510.0	7452.4	7399.2	7332.8	7304.0	7279.6	7257.5	7215.4	7195.5
5°	7614.1	7572.0	7459.0	7312.9	7146.8	6965.2	6788.0	6666.2	6562.1	6484.6	6420.3
7.5°	7684.9	7605.2	7399.2	7100.3	6719.3	6329.5	5977.4	5727.2	5538.9	5470.3	5350.7
10°	7758.0	7662.8	7304.0	6776.9	6119.2	5519.0	5051.7	4794.8	4644.2	4595.5	4520.2
12.5°	7844.4	7704.9	7155.6	6327.3	5448.1	4790.3	4382.8	4232.2	4154.7	4128.2	4134.8
15°	7970.6	7740.3	6931.9	5764.8	4808.1	4258.8	3995.3	3891.2	3851.3	3849.1	3858.0
17.5°	8065.9	7746.9	6584.2	5162.4	4316.4	3937.7	3720.7	3680.8	3707.4	3747.2	3762.7
20°	8172.2	7687.1	6128.0	4613.2	3970.9	3656.4	3565.6	3592.2	3656.4	3714.0	3733.9
22.5°	8247.5	7578.6	5576.6	4185.7	3671.9	3494.8	3490.3	3545.7	3581.1	3609.9	3625.4
25°	8313.9	7394.8	4991.9	3827.0	3426.1	3397.3	3446.0	3428.3	3404.0	3428.3	3443.8
27.5°	8362.6	7104.7	4469.2	3512.5	3253.4	3330.9	3302.1	3262.2	3260.0	3273.3	3295.4
30°	8347.1	6717.1	4039.6	3213.5	3131.6	3206.9	3138.2	3131.6	3124.9	3131.6	3155.9
32.5°	8347.1	6276.4	3709.6	3007.5	3054.0	3025.2	3018.6	3003.1	2976.5	2974.3	3003.1
35°	8393.6	5835.7	3426.1	2896.8	2989.8	2921.2	2925.6	2887.9	2832.6	2806.0	2832.6
37.5°	8488.9	5481.3	3144.8	2843.6	2876.9	2874.7	2856.9	2792.7	2695.3	2611.1	2639.9
40°	8719.2	5377.2	2952.2	2819.3	2823.7	2850.3	2803.8	2679.8	2458.3	2321.0	2338.7
42.5°	9080.2	5552.2	2910.1	2759.5	2788.3	2814.9	2724.1	2436.1	2278.9	2197.0	2197.0
45°	9538.6	5857.8	3000.9	2673.1	2704.1	2750.6	2480.4	2343.1	2272.3	2274.5	2285.5
47.5°	10118.9	6178.9	3169.2	2597.8	2582.3	2608.9	2318.8	2234.6	2137.2	2161.5	2223.5
50°	10789.9	6504.5	3328.7	2495.9	2447.2	2360.8	2214.7	2134.9	2010.9	1953.3	1968.8
52.5°	11516.3	6819.0	3392.9	2371.9	2301.0	2201.4	2143.8	2046.4	1895.8	1800.5	1798.3
55°	12205.1	7104.7	3322.0	2223.5	2154.9	2077.4	2068.5	2008.7	1847.0	1714.2	1714.2
57.5°	12856.2	7343.9	3144.8	2072.9	2006.5	1960.0	2019.8	1991.0	1787.2	1616.7	1607.9
60°	13407.7	7507.8	2887.9	1920.1	1873.6	1849.3	1940.1	1931.2	1703.1	1512.6	1506.0
62.5°	13846.2	7572.0	2604.5	1774.0	1762.9	1718.6	1829.3	1829.3	1596.8	1410.7	1404.1
65°	14189.4	7510.0	2316.6	1630.0	1652.1	1585.7	1694.2	1680.9	1483.8	1319.9	1311.1
67.5°	14492.8	7306.2	1997.6	1488.3	1539.2	1455.0	1552.5	1521.5	1359.8	1229.1	1220.3
70°	14627.9	6832.3	1634.4	1346.5	1408.5	1326.6	1410.7	1353.2	1220.3	1131.7	1114.0
72.5°	13542.8	5678.4	1286.7	1198.1	1251.3	1184.9	1257.9	1191.5	1069.7	1029.8	996.6
75°	11204.1	4261.0	990.0	1036.5	1076.3	1025.4	1074.1	1025.4	914.7	943.5	861.5
77.5°	8136.7	2876.9	757.4	865.9	883.7	857.1	899.2	843.8	744.1	737.5	704.3
80°	4046.2	1685.4	593.5	684.3	677.7	660.0	708.7	682.1	598.0	633.4	626.8
82.5°	1171.6	722.0	431.9	480.6	467.3	471.7	507.2	520.4	779.6	772.9	790.6
85°	367.6	283.5	259.1	268.0	254.7	261.3	299.0	593.5	549.2	321.1	347.7
87.5°	95.2	97.4	64.2	68.7	70.9	84.2	95.2	361.0	172.7	112.9	119.6
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)