

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: P955212

Luminaire Tested: **GALN-SB8B-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955212
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-SB8B-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41277 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 292.8
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



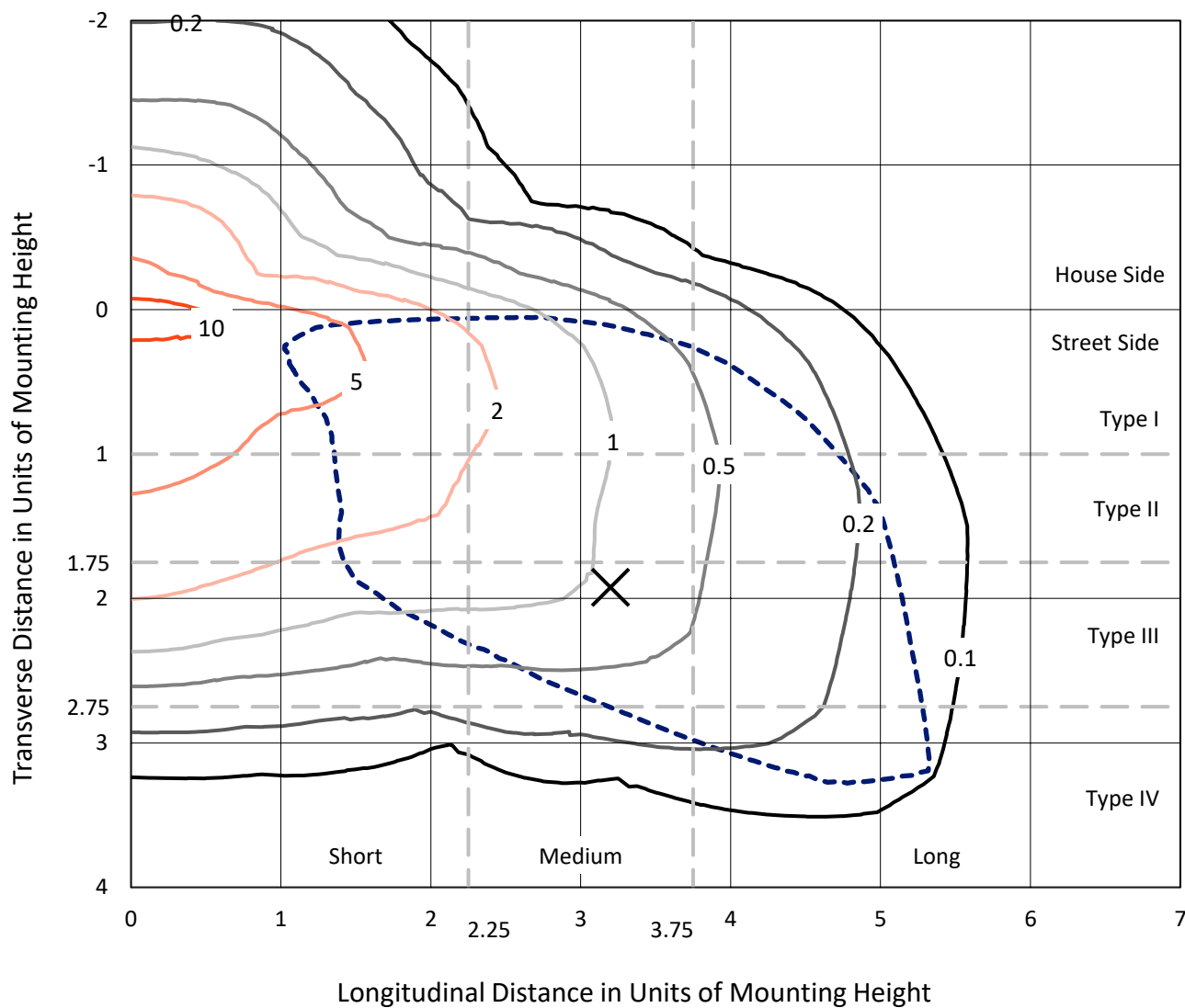
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

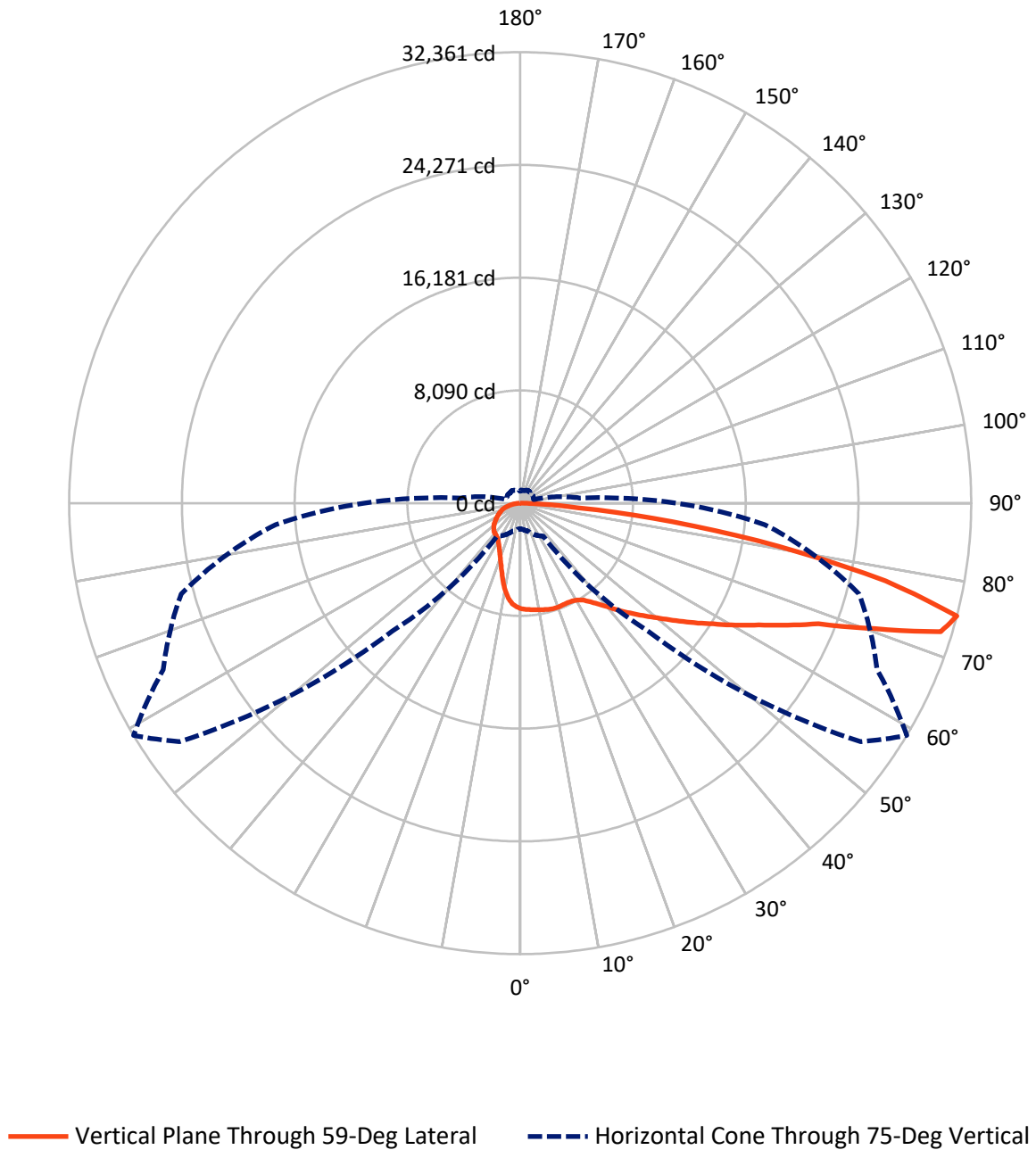
--- 1/2 Max cd



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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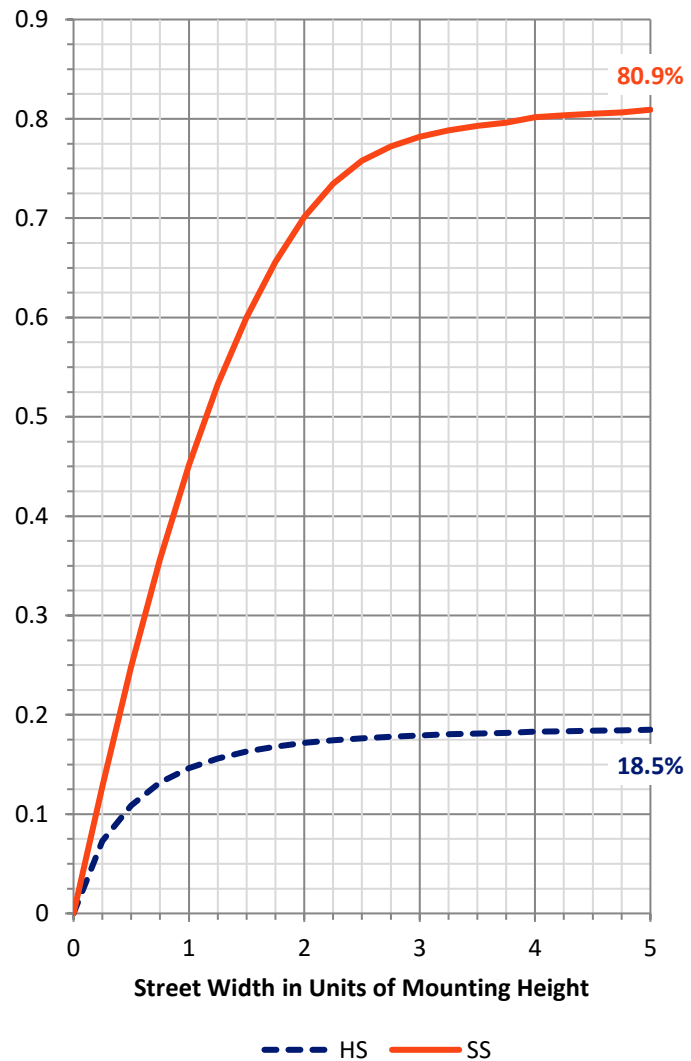
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7741.8	0.0	7741.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33535.2	0.0	33535.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	41277.0	0.0	41277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	1.6
10°-20°	1736.4	4.2
20°-30°	2637.5	6.4
30°-40°	3920.6	9.5
40°-50°	5830.6	14.1
50°-60°	7914.3	19.2
60°-70°	9662.1	23.4
70°-80°	7582.7	18.4
80°-90°	1313.5	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°	41277.0	100.0
0°-180°	41277.0	100.0

Coefficient of Utilization



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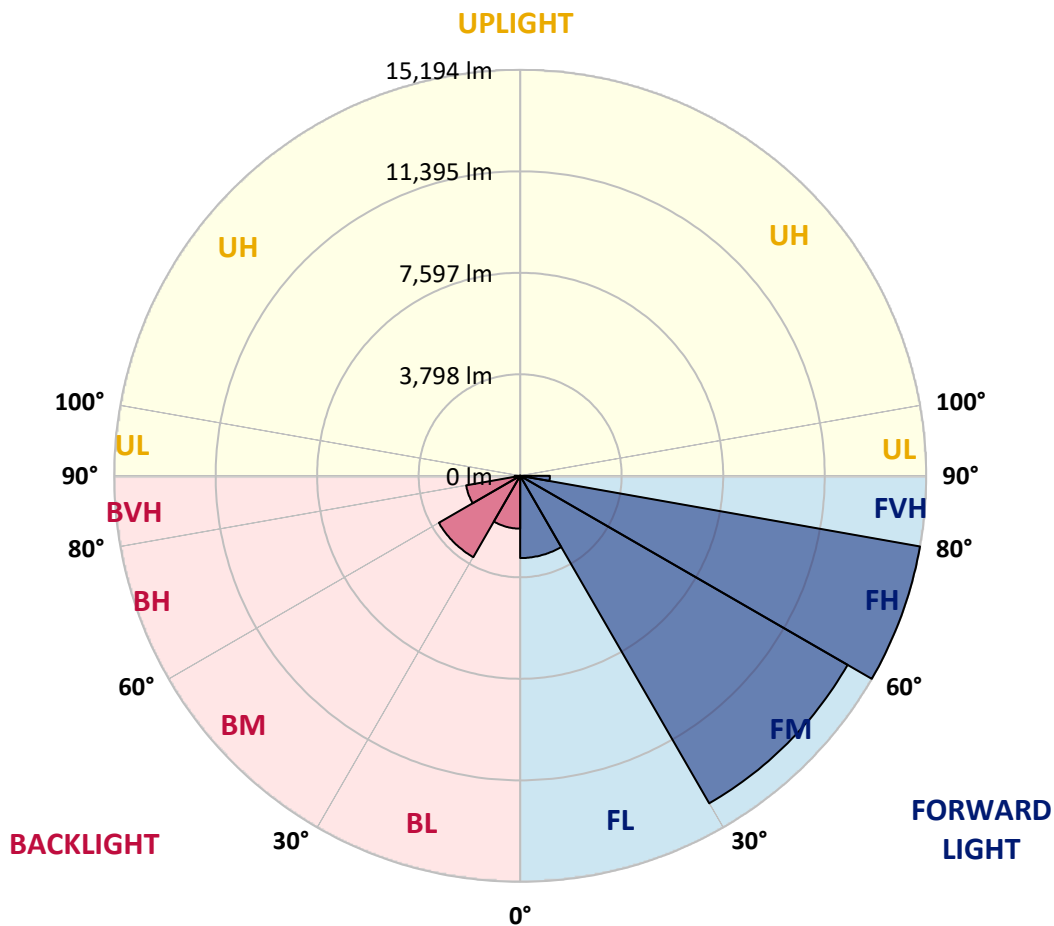
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3077.7	7.5			
FM	(30°-60°)	14151.5	34.3			
FH	(60°-80°)	15193.7	36.8			G5
FVH	(80°-90°)	1112.4	2.7			G5
BL	(0°-30°)	1975.6	4.8	B3/2500		
BM	(30°-60°)	3514.0	8.5	B3/5000		
BH	(60°-80°)	2051.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	201.1	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°	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3
2.5°	7640.7	7614.0	7640.7	7629.6	7625.2	7616.3	7618.5	7634.0	7625.2	7636.3	7598.5
5°	7589.6	7574.1	7600.7	7594.1	7622.9	7627.4	7656.2	7674.0	7685.1	7687.3	7658.5
7.5°	7505.2	7489.7	7527.5	7558.5	7620.7	7638.5	7698.4	7727.3	7742.8	7769.5	7727.3
10°	7196.6	7189.9	7283.2	7400.9	7547.4	7638.5	7729.5	7778.4	7802.8	7873.8	7825.0
12.5°	6650.4	6659.2	6781.4	7007.9	7301.0	7594.1	7765.0	7836.1	7873.8	7962.7	7940.5
15°	6128.5	6126.3	6259.6	6501.6	6912.4	7398.7	7782.8	7904.9	7969.3	8100.3	8082.6
17.5°	5826.6	5817.7	5910.9	6095.2	6477.2	7098.9	7738.4	7942.7	8080.4	8244.7	8229.1
20°	5771.0	5753.3	5802.1	5893.2	6164.1	6770.3	7622.9	7942.7	8169.2	8382.3	8373.5
22.5°	5973.1	5944.2	5924.3	5913.2	6033.1	6499.4	7491.9	7916.0	8300.2	8580.0	8564.4
25°	6379.5	6335.0	6232.9	6133.0	6097.5	6377.2	7376.5	7909.4	8495.6	8846.4	8788.7
27.5°	7036.7	6981.2	6774.7	6534.9	6319.5	6439.4	7325.4	7949.3	8711.0	9128.4	9013.0
30°	7851.6	7791.7	7531.9	7163.3	6776.9	6670.3	7389.8	8067.0	8986.3	9503.7	9277.2
32.5°	8582.2	8515.6	8293.5	7918.3	7396.4	7070.0	7594.1	8291.3	9419.3	10025.5	9674.7
35°	9230.6	9152.8	8953.0	8606.6	8155.8	7631.8	7962.7	8688.8	10034.4	10873.7	10214.2
37.5°	9865.6	9774.6	9557.0	9190.6	8875.3	8380.1	8471.2	9199.5	10851.5	11904.0	10929.2
40°	10576.2	10445.2	10180.9	9819.0	9512.6	9257.2	9139.5	9825.7	11682.0	13054.2	11821.9
42.5°	11264.5	11140.2	10824.9	10516.2	10132.1	10058.8	9914.5	10558.4	12590.2	14317.7	12727.8
45°	12006.2	11857.4	11475.5	11084.7	10842.6	10591.7	10665.0	11291.2	13480.6	15605.6	13678.2
47.5°	12701.2	12534.6	12083.9	11648.7	11515.4	11040.3	11353.3	12097.2	14406.5	16911.2	14619.7
50°	13076.4	12912.1	12536.9	12143.8	12039.5	11593.2	12099.4	12983.2	15376.9	18212.4	15523.4
52.5°	13389.5	13211.9	12721.2	12503.6	12472.5	12194.9	13018.7	13995.7	16347.2	19362.6	16396.1
55°	13722.6	13525.0	12898.8	12703.4	12845.5	12869.9	14109.0	15143.7	17373.1	20484.0	17219.9
57.5°	14106.8	13855.8	13069.8	12872.2	13209.7	13660.4	15361.3	16333.9	18381.2	21523.2	17952.6
60°	14468.7	14215.6	13398.4	13140.8	13602.7	14577.5	16798.0	17775.0	19522.5	22449.1	18645.4
62.5°	14539.7	14331.0	13660.4	13658.2	14135.6	15647.8	18498.9	19229.4	20519.5	23364.0	19267.2
65°	13309.6	13178.6	12781.1	13638.2	14899.5	17188.8	20393.0	21090.2	21787.4	24163.3	19813.4
67.5°	10129.9	10147.6	10118.8	11773.0	14282.2	19402.6	23135.3	23082.0	23352.9	25060.4	20441.8
70°	4631.9	4736.3	5415.8	8127.0	11442.2	19658.0	27669.5	26978.9	25318.0	26221.7	20985.8
72.5°	2502.5	2582.4	2860.0	3936.9	6879.1	17477.5	31058.0	31548.7	27931.5	27003.3	20388.5
75°	1836.3	1880.8	2073.9	2502.5	2888.9	12989.8	29843.3	32361.4	28257.9	25180.3	17606.2
77.5°	1374.5	1394.5	1552.1	1982.9	1478.8	6848.0	23845.8	26801.3	24190.0	20688.3	13005.4
80°	997.0	1019.2	1136.9	1487.7	1037.0	2504.7	16373.9	18812.0	16567.1	13187.5	6481.6
82.5°	688.4	697.2	748.3	1012.5	723.9	972.6	9290.5	11031.4	9248.3	4627.5	1749.7
85°	415.2	426.3	448.5	590.6	410.8	461.9	4010.2	4147.9	2764.5	1105.8	544.0
87.5°	171.0	182.1	199.8	248.7	162.1	128.8	661.7	830.5	517.4	324.2	168.8
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°	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3	7576.3
2.5°	7587.4	7571.9	7529.7	7471.9	7418.6	7352.0	7323.2	7298.7	7276.5	7234.3	7214.4
5°	7634.0	7591.8	7478.6	7332.0	7165.5	6983.4	6805.8	6683.7	6579.3	6501.6	6437.2
7.5°	7705.1	7625.2	7418.6	7118.9	6737.0	6346.2	5993.1	5742.2	5553.4	5484.6	5364.7
10°	7778.4	7682.9	7323.2	6794.7	6135.2	5533.5	5064.9	4807.4	4656.4	4607.5	4532.0
12.5°	7865.0	7725.1	7174.4	6343.9	5462.4	4802.9	4394.3	4243.4	4165.6	4139.0	4145.6
15°	7991.5	7760.6	6950.1	5779.9	4820.7	4270.0	4005.8	3901.4	3861.4	3859.2	3868.1
17.5°	8087.0	7767.3	6601.5	5176.0	4327.7	3948.0	3730.4	3690.4	3717.1	3757.1	3772.6
20°	8193.6	7707.3	6144.1	4625.3	3981.3	3666.0	3575.0	3601.6	3666.0	3723.8	3743.7
22.5°	8269.1	7598.5	5591.2	4196.7	3681.6	3503.9	3499.5	3555.0	3590.5	3619.4	3634.9
25°	8335.7	7414.2	5005.0	3837.0	3435.1	3406.2	3455.1	3437.3	3412.9	3437.3	3452.9
27.5°	8384.6	7123.3	4480.9	3521.7	3261.9	3339.6	3310.7	3270.8	3268.6	3281.9	3304.1
30°	8369.0	6734.7	4050.2	3221.9	3139.8	3215.3	3146.4	3139.8	3133.1	3139.8	3164.2
32.5°	8369.0	6292.9	3719.3	3015.4	3062.1	3033.2	3026.5	3011.0	2984.3	2982.1	3011.0
35°	8415.6	5851.0	3435.1	2904.4	2997.7	2928.8	2933.3	2895.5	2840.0	2813.4	2840.0
37.5°	8511.1	5495.7	3153.1	2851.1	2884.4	2882.2	2864.4	2800.0	2702.3	2618.0	2646.8
40°	8742.1	5391.3	2959.9	2826.7	2831.1	2857.8	2811.1	2686.8	2464.7	2327.1	2344.8
42.5°	9104.0	5566.8	2917.7	2766.7	2795.6	2822.2	2731.2	2442.5	2284.9	2202.7	2202.7
45°	9563.6	5873.2	3008.8	2680.1	2711.2	2757.8	2486.9	2349.3	2278.2	2280.4	2291.5
47.5°	10145.4	6195.2	3177.5	2604.6	2589.1	2615.7	2324.8	2240.5	2142.8	2167.2	2229.4
50°	10818.2	6521.6	3337.4	2502.5	2453.6	2367.0	2220.5	2140.5	2016.2	1958.5	1974.0
52.5°	11546.5	6836.9	3401.8	2378.1	2307.1	2207.2	2149.4	2051.7	1900.7	1805.3	1803.0
55°	12237.1	7123.3	3330.7	2229.4	2160.5	2082.8	2073.9	2014.0	1851.9	1718.7	1718.7
57.5°	12889.9	7363.1	3153.1	2078.4	2011.8	1965.1	2025.1	1996.2	1791.9	1621.0	1612.1
60°	13442.8	7527.5	2895.5	1925.2	1878.5	1854.1	1945.1	1936.3	1707.6	1516.6	1509.9
62.5°	13882.5	7591.8	2611.3	1778.6	1767.5	1723.1	1834.1	1834.1	1601.0	1414.5	1407.8
65°	14226.7	7529.7	2322.6	1634.3	1656.5	1589.9	1698.7	1685.3	1487.7	1323.4	1314.5
67.5°	14530.9	7325.4	2002.9	1492.2	1543.2	1458.9	1556.6	1525.5	1363.4	1232.4	1223.5
70°	14666.3	6850.2	1638.7	1350.1	1412.2	1330.1	1414.5	1356.7	1223.5	1134.7	1116.9
72.5°	13578.3	5693.3	1290.1	1201.3	1254.6	1188.0	1261.2	1194.6	1072.5	1032.5	999.2
75°	11233.4	4272.2	992.6	1039.2	1079.2	1028.1	1076.9	1028.1	917.1	945.9	863.8
77.5°	8158.1	2884.4	759.4	868.2	886.0	859.3	901.5	846.0	746.1	739.4	706.1
80°	4056.8	1689.8	595.1	686.1	679.5	661.7	710.6	683.9	599.5	635.1	628.4
82.5°	1174.6	723.9	433.0	481.8	468.5	473.0	508.5	521.8	781.6	774.9	792.7
85°	368.6	284.2	259.8	268.7	255.4	262.0	299.8	595.1	550.7	322.0	348.6
87.5°	95.5	97.7	64.4	68.8	71.1	84.4	95.5	361.9	173.2	113.2	119.9
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)