

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: P955207

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
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-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42953 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

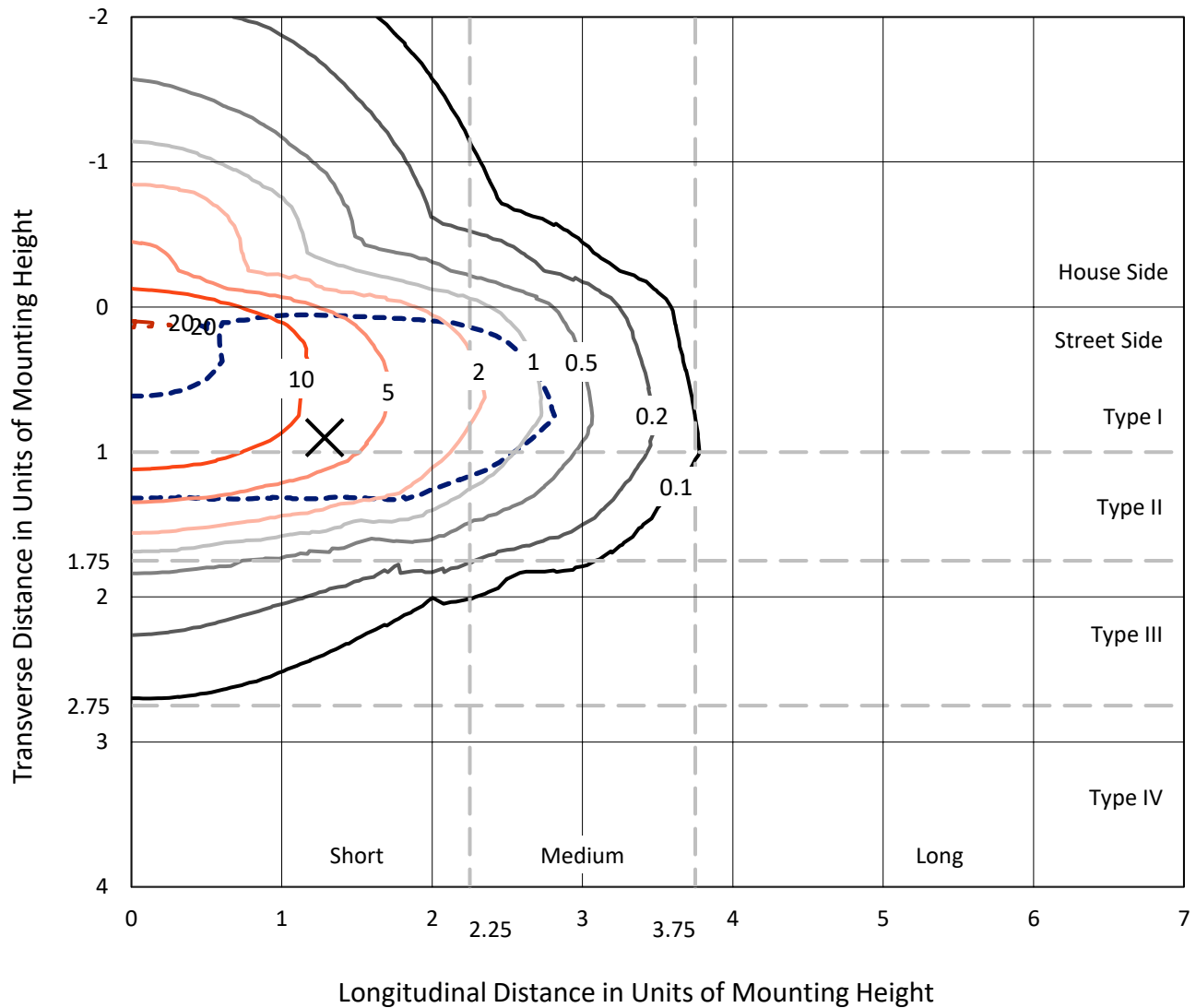


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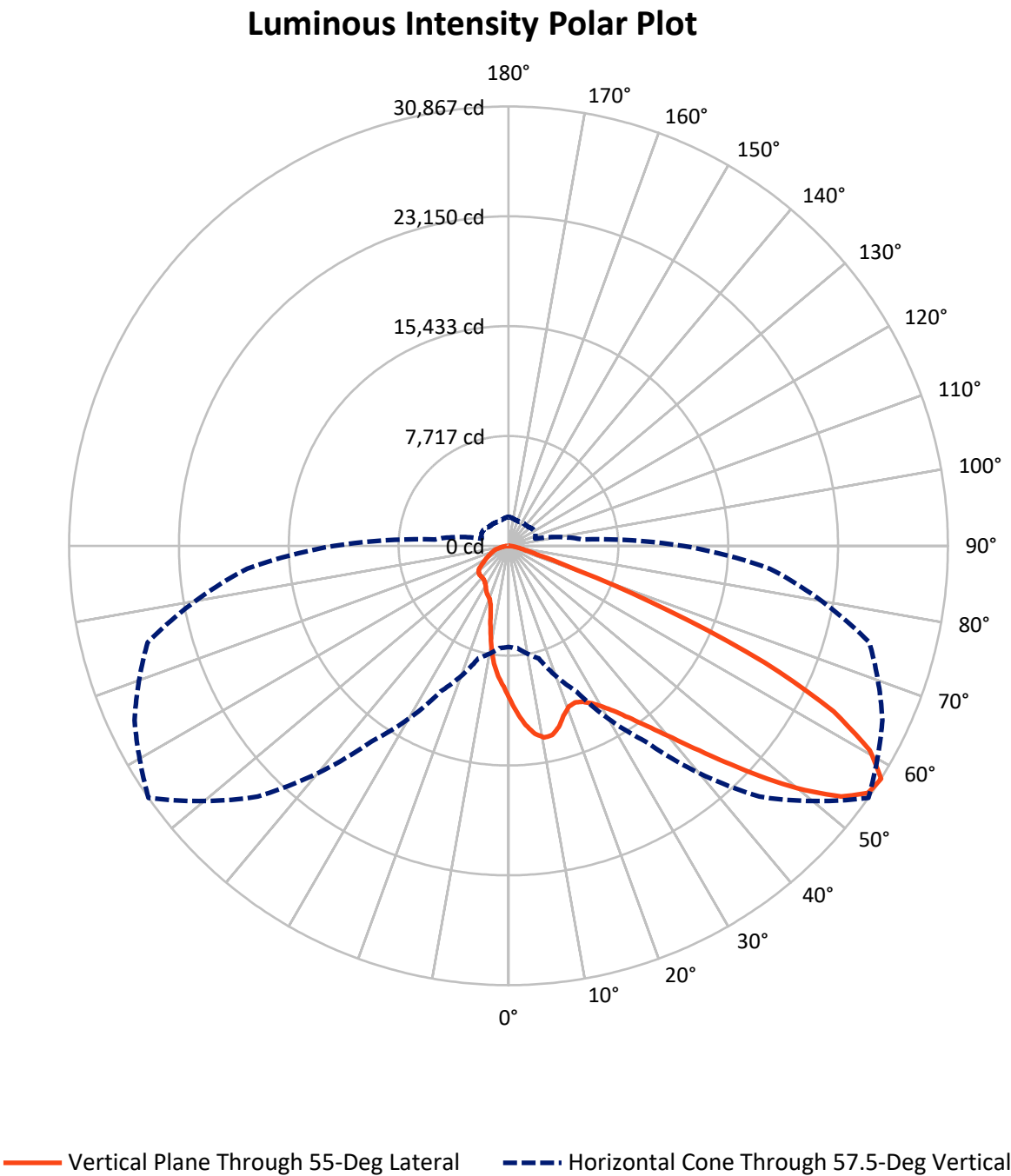
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
Type II - Short - N/A

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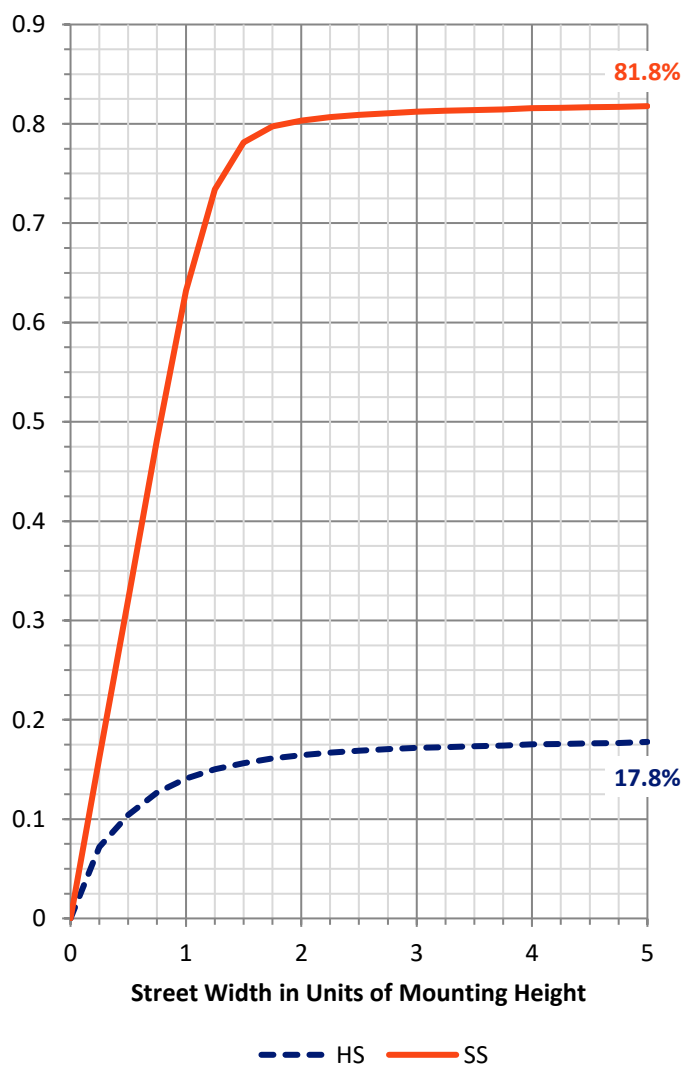
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7772.1	0.0	7772.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35180.9	0.0	35180.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	42953.0	0.0	42953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.7	2.3
10°-20°	2520.8	5.9
20°-30°	4022.5	9.4
30°-40°	6368.5	14.8
40°-50°	9747.7	22.7
50°-60°	10440.7	24.3
60°-70°	6568.3	15.3
70°-80°	1942.4	4.5
80°-90°	343.4	0.8
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°	42953.0	100.0
0°-180°	42953.0	100.0

Coefficient of Utilization



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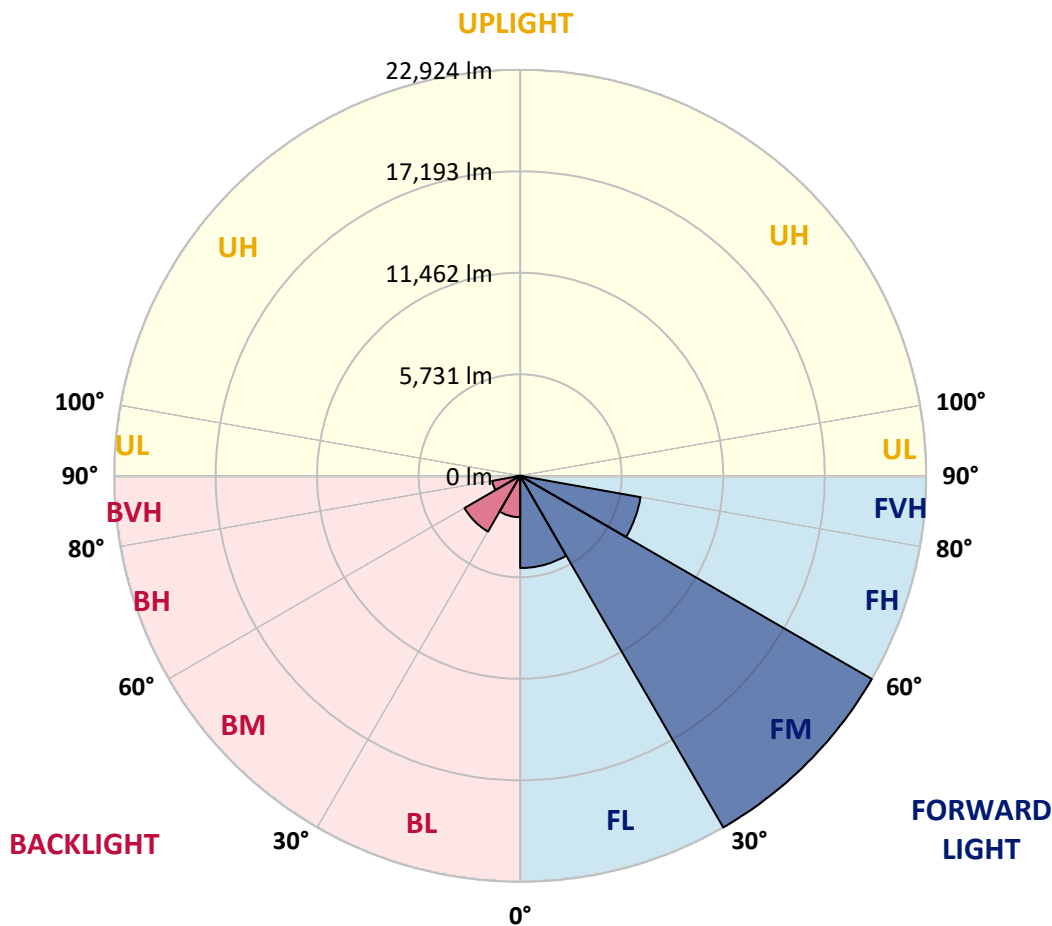
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5205.9	12.1			
FM	(30°-60°)	22924.3	53.4			
FH	(60°-80°)	6905.5	16.1			G3/7500
FVH	(80°-90°)	145.1	0.3			G2/225
BL	(0°-30°)	2336.0	5.4	B3/2500		
BM	(30°-60°)	3632.6	8.5	B3/5000		
BH	(60°-80°)	1605.1	3.7	B3/2500		G3/2500
BVH	(80°-90°)	198.3	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6
2.5°	12348.0	12339.2	12388.0	12221.5	12108.2	11955.0	11753.0	11495.4	11217.8	10924.7	10798.2
5°	13460.5	13382.8	13433.9	13309.5	13185.2	12954.2	12654.5	12234.8	11721.9	11137.9	10827.0
7.5°	13285.1	13231.8	13362.8	13473.8	13567.1	13538.2	13318.4	12878.7	12217.0	11368.8	10918.1
10°	11870.6	11810.7	11995.0	12379.1	12943.1	13433.9	13700.3	13427.2	12723.3	11622.0	11006.9
12.5°	10622.7	10593.9	10716.0	11026.9	11653.0	12594.5	13651.5	13906.8	13249.6	11921.7	11126.8
15°	10089.8	10054.3	10132.0	10289.7	10689.4	11566.4	13207.4	14235.4	13766.9	12268.1	11317.7
17.5°	9972.1	9932.2	9965.5	10047.6	10305.2	10973.6	12536.8	14397.5	14306.5	12654.5	11477.6
20°	10189.7	10156.4	10160.9	10156.4	10336.3	10867.0	12070.5	14335.4	14777.2	13009.7	11633.1
22.5°	10716.0	10660.5	10662.7	10545.0	10642.7	11053.5	11948.4	14168.8	15196.9	13320.6	11750.7
25°	11573.1	11473.2	11493.2	11193.4	11166.8	11471.0	12139.3	14040.0	15614.4	13569.3	11772.9
27.5°	12745.5	12632.3	12572.3	12126.0	11912.8	12063.8	12527.9	14084.5	16009.6	13784.7	11717.4
30°	14211.0	14073.4	13951.2	13318.4	12932.0	12876.5	13131.9	14377.6	16475.9	14011.2	11622.0
32.5°	16007.4	15847.5	15625.5	14786.1	14242.1	13951.2	13913.5	14899.4	17022.1	14299.8	11573.1
35°	18145.7	17937.0	17621.7	16535.9	15847.5	15252.4	14943.8	15652.1	17770.4	14735.1	11628.6
37.5°	20348.4	20113.0	19824.4	18532.1	17686.1	16809.0	16200.6	16673.5	18767.4	15325.7	11775.2
40°	22380.1	22115.9	21847.2	20697.0	19788.8	18731.9	17739.4	17965.8	19986.5	16031.8	12023.9
42.5°	23579.2	23383.8	23281.6	22659.9	21958.2	20885.8	19653.4	19498.0	21356.5	16844.5	12308.1
45°	23525.9	23446.0	23761.3	24018.8	23852.3	23257.2	21896.1	21192.2	22731.0	17548.4	12570.1
47.5°	22269.1	22322.4	23026.3	24474.0	25111.3	25422.2	24449.6	22855.3	23925.6	18074.6	12687.8
50°	18849.6	18894.0	20523.8	23645.8	25435.5	27187.5	26983.2	24478.5	24851.5	18396.6	12661.1
52.5°	16142.8	16171.7	16871.1	21190.0	24365.2	28075.6	29265.8	26008.4	25528.8	18485.4	12512.4
55°	12159.3	12259.2	13043.1	16624.7	21580.8	27371.8	30655.8	27584.9	25957.3	18494.3	12356.9
57.5°	7103.3	7212.1	8180.2	11284.4	16773.4	24918.1	30866.8	28983.8	26248.2	18423.3	12263.7
60°	3479.5	3526.1	3948.0	5930.9	10343.0	20190.8	29170.3	29661.1	26410.3	18385.5	12259.2
62.5°	2344.8	2338.2	2355.9	2926.6	5096.0	12972.0	25635.3	28475.3	26323.7	18241.2	12214.8
65°	2016.2	1991.8	1925.1	2053.9	2640.1	5933.1	19806.6	24935.9	25664.2	17879.2	11910.6
67.5°	1743.1	1745.3	1747.5	1707.5	1885.2	2737.8	12103.8	19642.3	23297.2	16165.0	10738.2
70°	1443.3	1463.3	1472.2	1472.2	1536.6	1796.4	5167.0	13462.7	18376.6	12674.5	8648.7
72.5°	1314.5	1272.3	1276.8	1254.6	1254.6	1367.8	2080.6	7631.8	11577.5	7129.9	5278.1
75°	1072.5	1099.1	1103.6	1088.0	1037.0	1043.6	1234.6	3201.9	4953.9	2957.7	2609.1
77.5°	925.9	925.9	934.8	923.7	883.7	781.6	823.8	1241.2	1685.3	1212.4	1303.4
80°	743.9	741.6	779.4	801.6	739.4	577.3	526.3	686.1	748.3	532.9	677.2
82.5°	361.9	384.1	535.1	610.6	561.8	417.4	322.0	426.3	399.7	235.4	304.2
85°	210.9	199.8	239.8	339.7	322.0	230.9	155.4	222.0	208.7	119.9	122.1
87.5°	66.6	62.2	48.9	115.5	93.3	64.4	42.2	64.4	57.7	26.6	26.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6	10762.6
2.5°	10640.5	10378.5	10118.7	9881.1	9736.8	9643.5	9550.2	9445.9	9405.9	9346.0
5°	10533.9	10027.7	9576.9	9188.3	8835.3	8557.7	8277.9	8051.4	7949.3	8018.1
7.5°	10471.7	9739.0	9044.0	8331.2	7645.1	7096.6	6619.2	6283.9	6132.9	6170.7
10°	10416.2	9412.6	8353.4	7227.6	6241.7	5562.3	5073.8	4818.4	4722.9	4742.9
12.5°	10365.2	9046.2	7520.7	6039.7	4991.6	4543.1	4403.2	4405.4	4423.2	4436.5
15°	10356.3	8604.3	6590.4	5000.5	4316.6	4287.7	4438.7	4534.2	4585.3	4600.8
17.5°	10343.0	8075.9	5642.2	4292.2	4152.3	4347.7	4487.6	4549.7	4589.7	4591.9
20°	10289.7	7405.3	4767.4	3954.7	4116.8	4285.5	4372.1	4421.0	4454.3	4465.4
22.5°	10125.4	6659.2	4085.7	3803.7	3974.6	4110.1	4212.2	4267.7	4287.7	4301.1
25°	9830.0	5824.3	3614.9	3659.3	3777.0	3948.0	4030.2	4041.3	4034.6	4054.6
27.5°	9443.7	4929.4	3321.8	3463.9	3614.9	3761.5	3805.9	3799.2	3785.9	3808.1
30°	8977.4	4125.6	3135.3	3244.1	3450.6	3583.8	3623.8	3608.3	3581.6	3606.0
32.5°	8484.4	3468.4	2982.1	3090.9	3315.2	3446.2	3486.1	3470.6	3450.6	3470.6
35°	8024.8	3008.7	2840.0	2988.8	3208.6	3337.4	3388.4	3390.7	3390.7	3415.1
37.5°	7602.9	2740.1	2722.3	2924.4	3135.3	3250.8	3324.0	3328.5	3233.0	3239.7
40°	7212.1	2626.8	2669.0	2882.2	3064.3	3175.3	3179.7	2931.0	2755.6	2751.2
42.5°	6892.3	2604.6	2684.6	2877.7	3013.2	3017.6	2704.5	2511.4	2462.5	2464.7
45°	6592.6	2598.0	2720.1	2877.7	2937.7	2606.8	2395.9	2344.8	2349.3	2367.0
47.5°	6257.3	2571.3	2726.7	2837.8	2720.1	2318.2	2256.0	2233.8	2224.9	2229.4
50°	5890.9	2475.8	2642.4	2757.8	2347.0	2193.8	2116.1	2109.4	2120.6	2127.2
52.5°	5504.5	2320.4	2498.0	2613.5	2176.1	2085.0	1998.4	2014.0	2062.8	2078.4
55°	5251.4	2138.3	2307.1	2324.8	2056.2	1982.9	1909.6	1945.1	2036.2	2065.0
57.5°	5184.8	1945.1	2089.5	2069.5	1902.9	1894.1	1849.7	1880.7	1996.2	2038.4
60°	5164.8	1771.9	1876.3	1860.8	1754.2	1796.4	1785.3	1800.8	1840.8	1854.1
62.5°	5009.4	1634.3	1685.3	1663.1	1620.9	1694.2	1720.9	1687.6	1718.6	1734.2
65°	4614.1	1523.2	1498.8	1483.3	1501.0	1567.7	1620.9	1554.3	1583.2	1627.6
67.5°	3961.3	1372.3	1305.6	1323.4	1378.9	1414.4	1483.3	1407.8	1432.2	1507.7
70°	3204.1	1181.3	1121.3	1172.4	1225.7	1299.0	1310.1	1259.0	1316.7	1401.1
72.5°	2267.1	988.1	945.9	1050.3	1068.0	1163.5	1139.1	1114.7	1194.6	1223.5
75°	1572.1	797.1	772.7	852.7	917.1	999.2	981.4	1010.3	1179.1	1192.4
77.5°	994.8	619.5	604.0	655.0	743.9	834.9	863.8	1192.4	2014.0	2093.9
80°	577.3	461.9	444.1	484.1	561.8	646.2	832.7	1463.3	1327.8	1312.3
82.5°	322.0	317.5	295.3	306.4	375.3	466.3	1176.9	1030.3	837.1	863.8
85°	151.0	186.5	159.9	153.2	210.9	546.2	786.0	588.4	390.8	381.9
87.5°	40.0	35.5	35.5	40.0	88.8	470.7	313.1	250.9	148.8	144.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)