

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: P954850

Luminaire Tested: **GALN-SB8A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954850
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-SB8A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34217 lumens
Efficiency: N/A
Efficacy: 150.7 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): 227.1
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

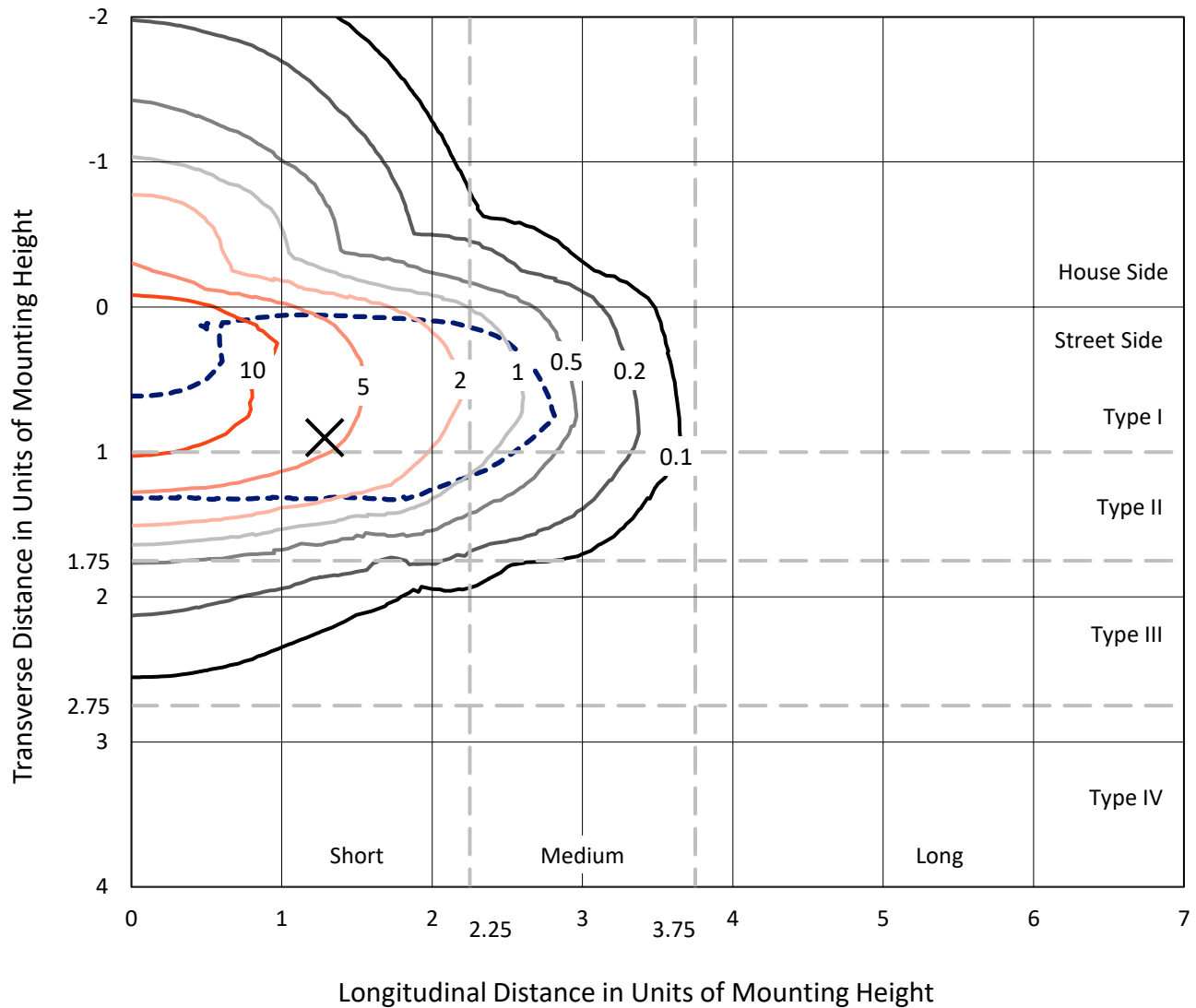


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

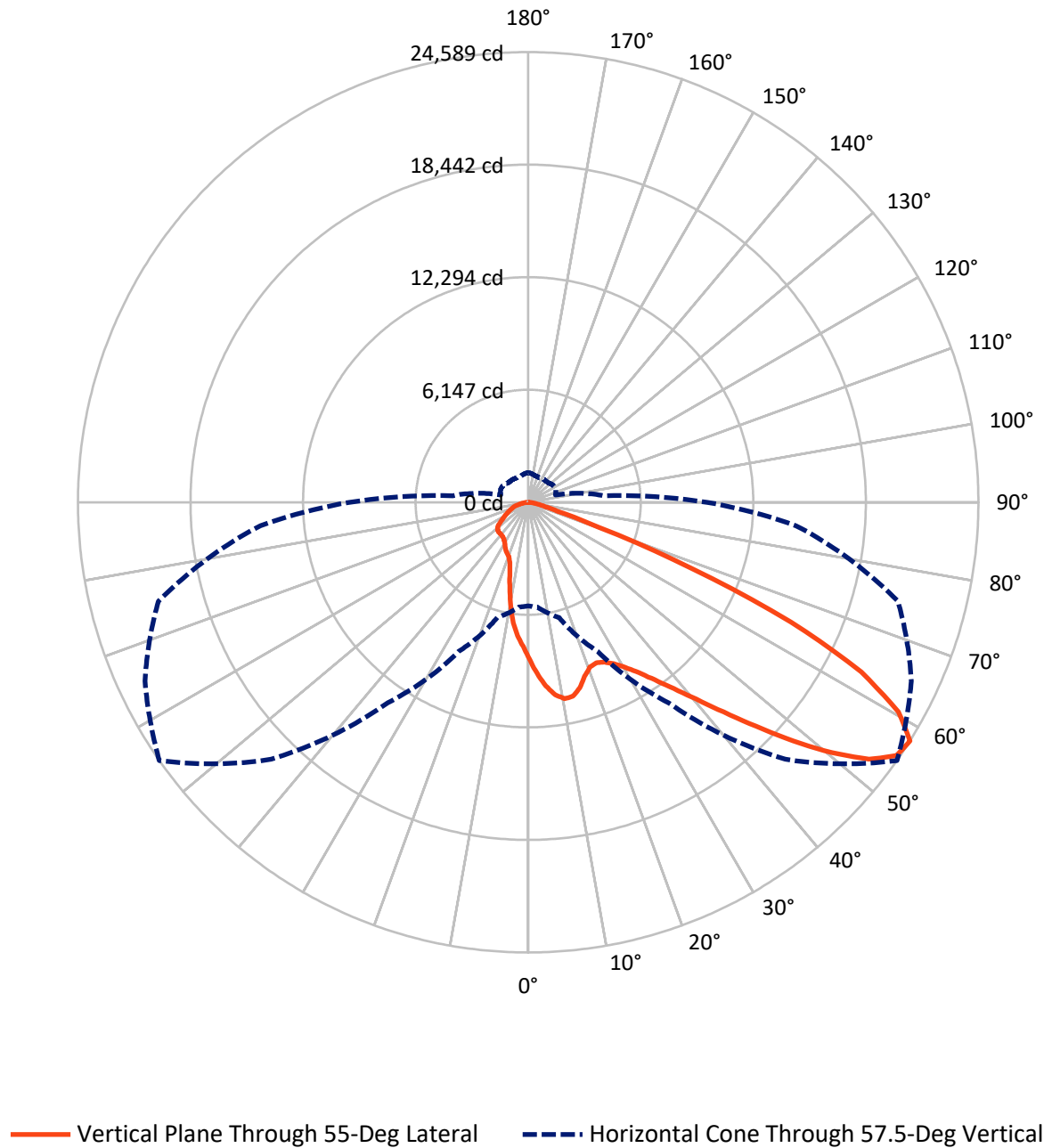


Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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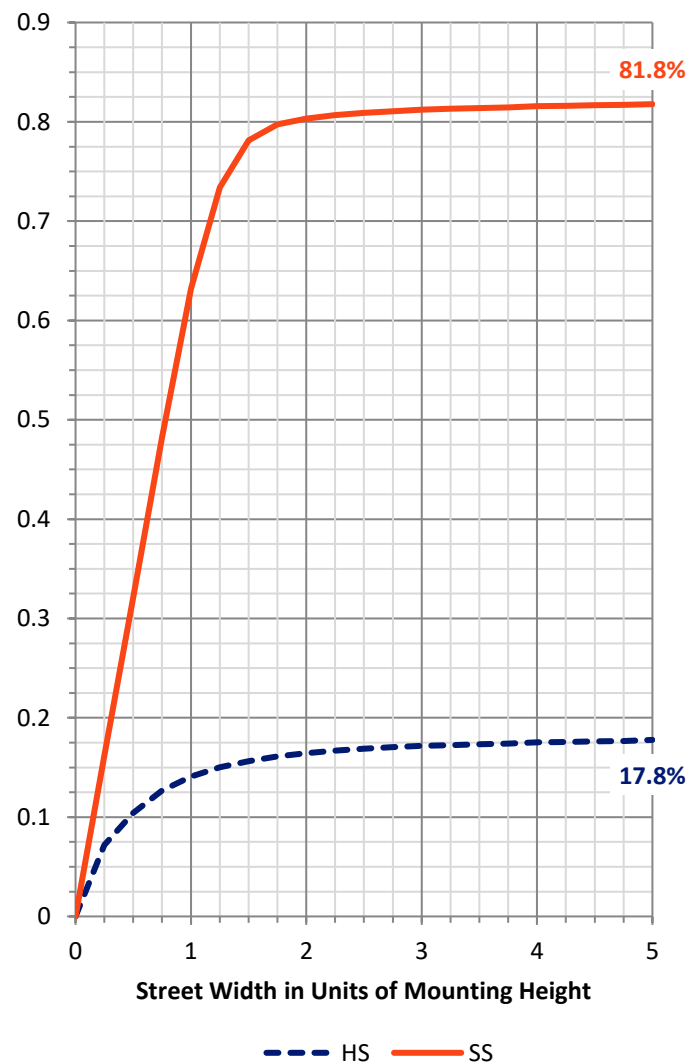
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6191.4	0.0	6191.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28025.6	0.0	28025.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	34217.0	0.0	34217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.6	2.3
10°-20°	2008.1	5.9
20°-30°	3204.3	9.4
30°-40°	5073.3	14.8
40°-50°	7765.2	22.7
50°-60°	8317.2	24.3
60°-70°	5232.4	15.3
70°-80°	1547.3	4.5
80°-90°	273.6	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°	34217.0	100.0
0°-180°	34217.0	100.0

Coefficient of Utilization



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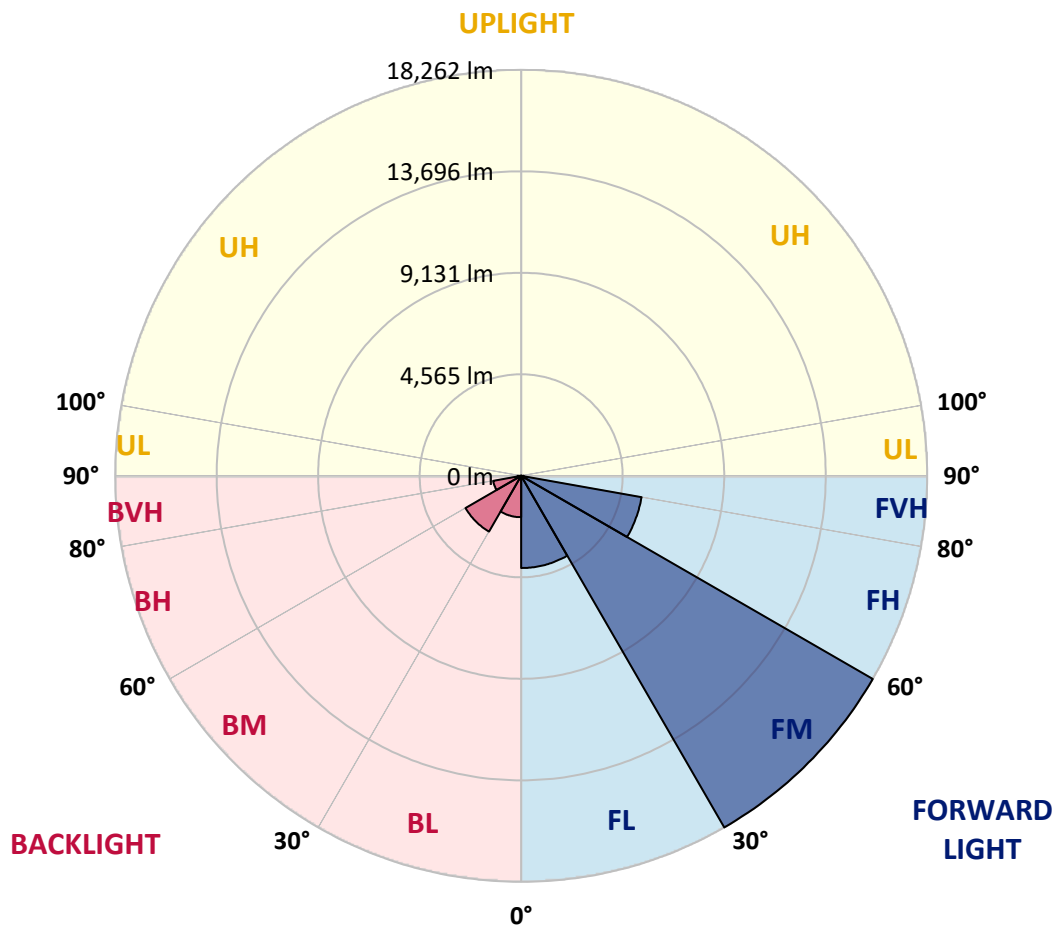
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4147.1	12.1			
FM	(30°-60°)	18261.9	53.4			
FH	(60°-80°)	5501.1	16.1			G3/7500
FVH	(80°-90°)	115.6	0.3			G2/225
BL	(0°-30°)	1860.9	5.4	B3/2500		
BM	(30°-60°)	2893.8	8.5	B3/5000		
BH	(60°-80°)	1278.7	3.7	B3/2500		G3/2500
BVH	(80°-90°)	158.0	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°	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7
2.5°	9836.6	9829.6	9868.5	9735.8	9645.6	9523.5	9362.6	9157.4	8936.3	8702.8	8602.0
5°	10722.8	10660.9	10701.6	10602.6	10503.5	10319.5	10080.7	9746.4	9337.8	8872.6	8625.0
7.5°	10583.1	10540.6	10645.0	10733.4	10807.7	10784.7	10609.6	10259.4	9732.3	9056.6	8697.5
10°	9456.3	9408.6	9555.4	9861.4	10310.7	10701.6	10913.9	10696.3	10135.6	9258.2	8768.2
12.5°	8462.2	8439.2	8536.5	8784.2	9283.0	10033.0	10875.0	11078.4	10554.8	9497.0	8863.8
15°	8037.7	8009.4	8071.3	8196.9	8515.3	9214.0	10521.2	11340.2	10966.9	9773.0	9015.9
17.5°	7944.0	7912.1	7938.6	8004.1	8209.3	8741.7	9987.0	11469.3	11396.8	10080.7	9143.2
20°	8117.3	8090.8	8094.3	8090.8	8234.0	8656.8	9615.5	11419.8	11771.8	10363.8	9267.1
22.5°	8536.5	8492.3	8494.1	8400.3	8478.2	8805.4	9518.2	11287.1	12106.1	10611.4	9360.8
25°	9219.3	9139.7	9155.6	8916.8	8895.6	9137.9	9670.4	11184.5	12438.6	10809.5	9378.5
27.5°	10153.3	10063.1	10015.3	9659.8	9489.9	9610.2	9979.9	11219.9	12753.5	10981.1	9334.3
30°	11320.7	11211.0	11113.8	10609.6	10301.8	10257.6	10461.0	11453.4	13124.9	11161.5	9258.2
32.5°	12751.7	12624.4	12447.5	11778.8	11345.5	11113.8	11083.7	11869.1	13560.1	11391.5	9219.3
35°	14455.1	14288.9	14037.7	13172.7	12624.4	12150.3	11904.4	12468.7	14156.2	11738.2	9263.5
37.5°	16209.8	16022.3	15792.4	14762.9	14089.0	13390.3	12905.6	13282.4	14950.4	12208.7	9380.3
40°	17828.4	17617.9	17403.8	16487.6	15764.1	14922.1	14131.4	14311.9	15921.5	12771.2	9578.4
42.5°	18783.5	18627.9	18546.5	18051.2	17492.3	16637.9	15656.2	15532.4	17012.9	13418.6	9804.8
45°	18741.1	18677.4	18928.6	19133.8	19001.1	18527.1	17442.7	16882.0	18107.8	13979.3	10013.5
47.5°	17739.9	17782.4	18343.1	19496.4	20004.0	20251.7	19476.9	18206.9	19059.5	14398.5	10107.3
50°	15015.9	15051.2	16349.6	18836.6	20262.3	21657.9	21495.2	19499.9	19797.1	14655.0	10086.0
52.5°	12859.6	12882.6	13439.8	16880.2	19409.7	22365.5	23313.6	20718.7	20336.6	14725.8	9967.5
55°	9686.3	9765.9	10390.3	13243.5	17191.6	21804.8	24420.9	21974.6	20678.0	14732.8	9843.7
57.5°	5658.6	5745.3	6516.5	8989.4	13362.0	19850.2	24588.9	23088.9	20909.7	14676.2	9769.4
60°	2771.8	2809.0	3145.0	4724.6	8239.4	16084.3	23237.5	23628.4	21038.8	14646.2	9765.9
62.5°	1867.9	1862.6	1876.8	2331.4	4059.5	10333.7	20421.5	22683.9	20969.8	14531.2	9730.5
65°	1606.1	1586.7	1533.6	1636.2	2103.2	4726.4	15778.2	19864.3	20444.5	14242.9	9488.2
67.5°	1388.6	1390.3	1392.1	1360.3	1501.8	2181.0	9642.1	15647.3	18558.9	12877.3	8554.2
70°	1149.8	1165.7	1172.8	1172.8	1224.1	1431.0	4116.1	10724.6	14639.1	10096.7	6889.7
72.5°	1047.2	1013.6	1017.1	999.4	999.4	1089.6	1657.4	6079.6	9222.8	5679.8	4204.6
75°	854.4	875.6	879.1	866.7	826.1	831.4	983.5	2550.7	3946.3	2356.1	2078.4
77.5°	737.6	737.6	744.7	735.8	704.0	622.6	656.2	988.8	1342.6	965.8	1038.3
80°	592.6	590.8	620.9	638.6	589.0	459.9	419.2	546.6	596.1	424.5	539.5
82.5°	288.3	306.0	426.3	486.4	447.5	332.5	256.5	339.6	318.4	187.5	242.3
85°	168.0	159.2	191.0	270.6	256.5	184.0	123.8	176.9	166.3	95.5	97.3
87.5°	53.1	49.5	38.9	92.0	74.3	51.3	33.6	51.3	46.0	21.2	21.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7	8573.7
2.5°	8476.4	8267.7	8060.7	7871.4	7756.5	7682.2	7607.9	7524.7	7492.9	7445.1
5°	8391.5	7988.2	7629.1	7319.5	7038.3	6817.2	6594.3	6413.9	6332.5	6387.4
7.5°	8341.9	7758.2	7204.6	6636.8	6090.2	5653.3	5273.0	5005.9	4885.6	4915.7
10°	8297.7	7498.2	6654.5	5757.6	4972.3	4431.0	4041.8	3838.4	3762.4	3778.3
12.5°	8257.0	7206.3	5991.1	4811.3	3976.4	3619.1	3507.7	3509.4	3523.6	3534.2
15°	8250.0	6854.3	5250.0	3983.5	3438.7	3415.7	3536.0	3612.0	3652.7	3665.1
17.5°	8239.4	6433.3	4494.7	3419.2	3307.8	3463.4	3574.9	3624.4	3656.2	3658.0
20°	8196.9	5899.2	3797.7	3150.3	3279.5	3413.9	3482.9	3521.8	3548.3	3557.2
22.5°	8066.0	5304.8	3254.7	3030.1	3166.3	3274.2	3355.5	3399.8	3415.7	3426.3
25°	7830.7	4639.7	2879.7	2915.1	3008.8	3145.0	3210.5	3219.3	3214.0	3229.9
27.5°	7523.0	3926.9	2646.2	2759.4	2879.7	2996.5	3031.8	3026.5	3015.9	3033.6
30°	7151.5	3286.5	2497.6	2584.3	2748.8	2854.9	2886.8	2874.4	2853.2	2872.6
32.5°	6758.8	2763.0	2375.6	2462.3	2640.9	2745.3	2777.1	2764.7	2748.8	2764.7
35°	6392.7	2396.8	2262.4	2380.9	2556.0	2658.6	2699.3	2701.1	2701.1	2720.5
37.5°	6056.6	2182.8	2168.6	2329.6	2497.6	2589.6	2648.0	2651.5	2575.5	2580.8
40°	5745.3	2092.6	2126.2	2296.0	2441.0	2529.5	2533.0	2334.9	2195.2	2191.6
42.5°	5490.5	2074.9	2138.6	2292.4	2400.3	2403.9	2154.5	2000.6	1961.7	1963.4
45°	5251.7	2069.6	2166.9	2292.4	2340.2	2076.6	1908.6	1867.9	1871.5	1885.6
47.5°	4984.7	2048.3	2172.2	2260.6	2166.9	1846.7	1797.2	1779.5	1772.4	1775.9
50°	4692.8	1972.3	2104.9	2196.9	1869.7	1747.6	1685.7	1680.4	1689.3	1694.6
52.5°	4385.0	1848.5	1990.0	2081.9	1733.5	1661.0	1592.0	1604.4	1643.3	1655.7
55°	4183.4	1703.4	1837.8	1852.0	1638.0	1579.6	1521.2	1549.5	1622.0	1645.0
57.5°	4130.3	1549.5	1664.5	1648.6	1515.9	1508.8	1473.5	1498.2	1590.2	1623.8
60°	4114.4	1411.6	1494.7	1482.3	1397.4	1431.0	1422.2	1434.5	1466.4	1477.0
62.5°	3990.6	1301.9	1342.6	1324.9	1291.3	1349.6	1370.9	1344.3	1369.1	1381.5
65°	3675.7	1213.4	1194.0	1181.6	1195.8	1248.8	1291.3	1238.2	1261.2	1296.6
67.5°	3155.6	1093.2	1040.1	1054.2	1098.5	1126.8	1181.6	1121.5	1140.9	1201.1
70°	2552.5	941.0	893.3	934.0	976.4	1034.8	1043.6	1002.9	1048.9	1116.2
72.5°	1806.0	787.1	753.5	836.7	850.8	926.9	907.4	888.0	951.6	974.6
75°	1252.4	635.0	615.6	679.2	730.5	796.0	781.8	804.8	939.3	949.9
77.5°	792.4	493.5	481.1	521.8	592.6	665.1	688.1	949.9	1604.4	1668.0
80°	459.9	367.9	353.8	385.6	447.5	514.7	663.3	1165.7	1057.8	1045.4
82.5°	256.5	252.9	235.3	244.1	298.9	371.5	937.5	820.8	666.9	688.1
85°	120.3	148.6	127.4	122.1	168.0	435.1	626.2	468.7	311.3	304.2
87.5°	31.8	28.3	28.3	31.8	70.8	375.0	249.4	199.9	118.5	115.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)