

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: P943999

Luminaire Tested: **GALN-SB8D-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75435 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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



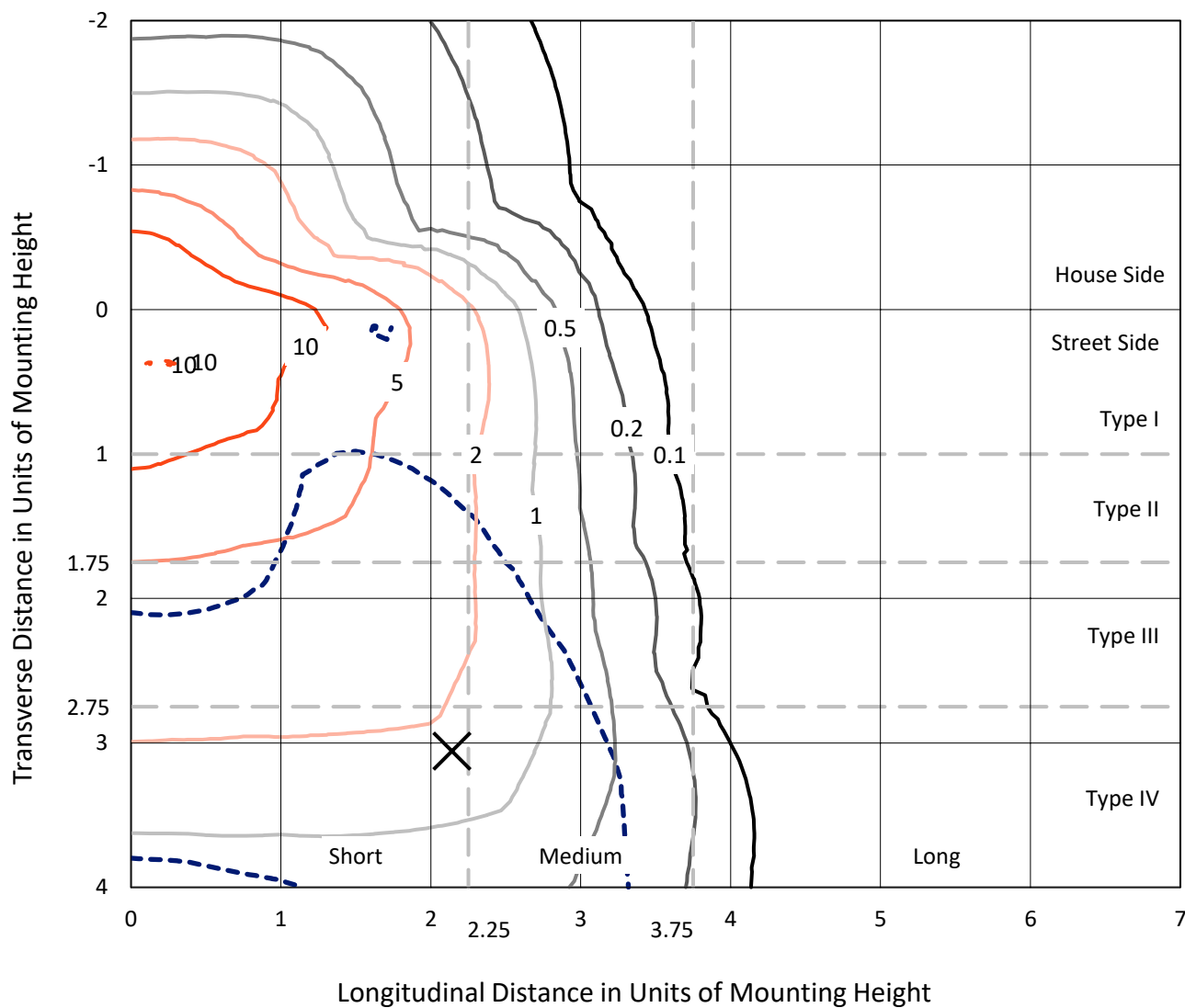
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



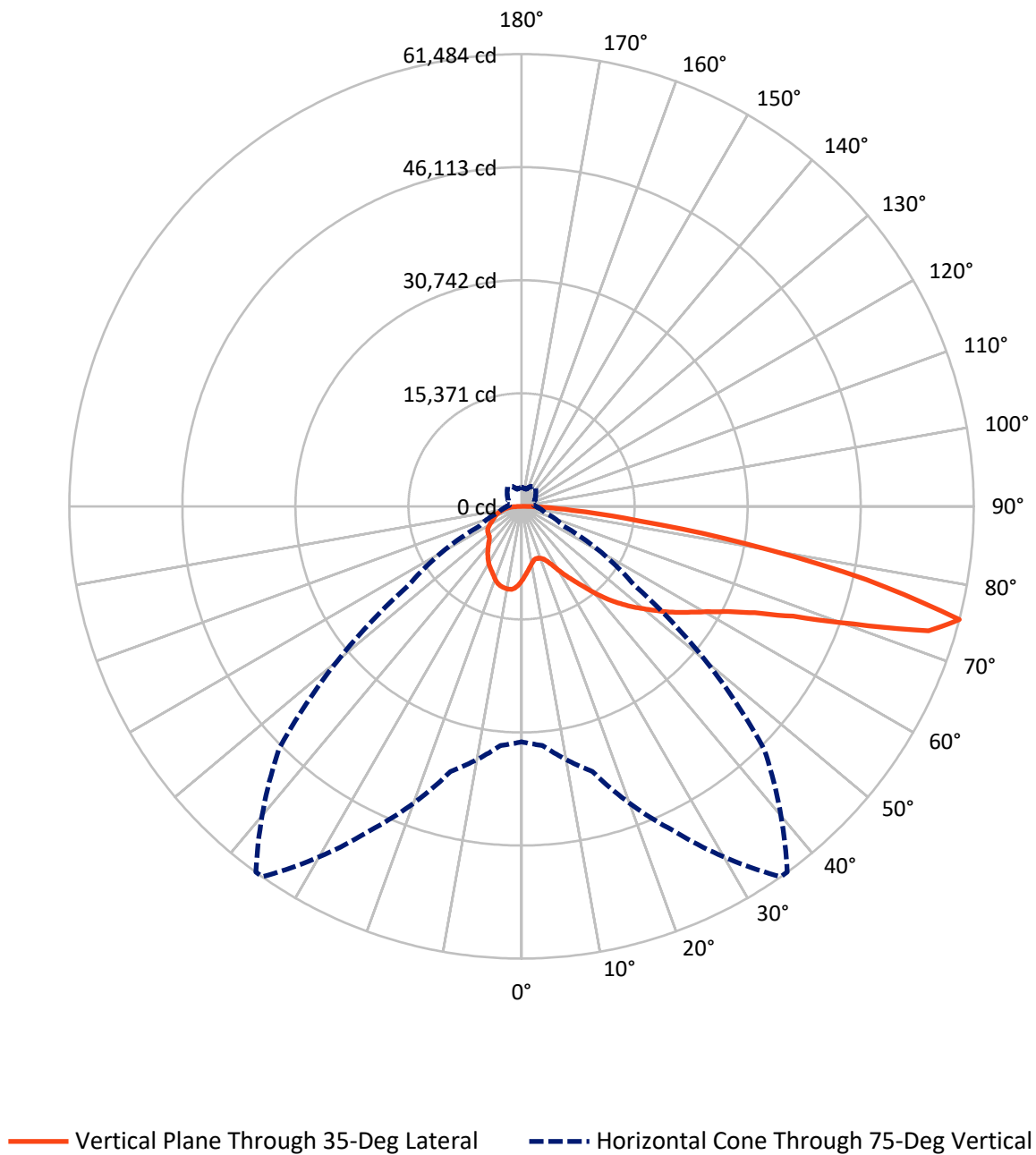
Based on 25 foot mounting height. Maximum calculated value = 17.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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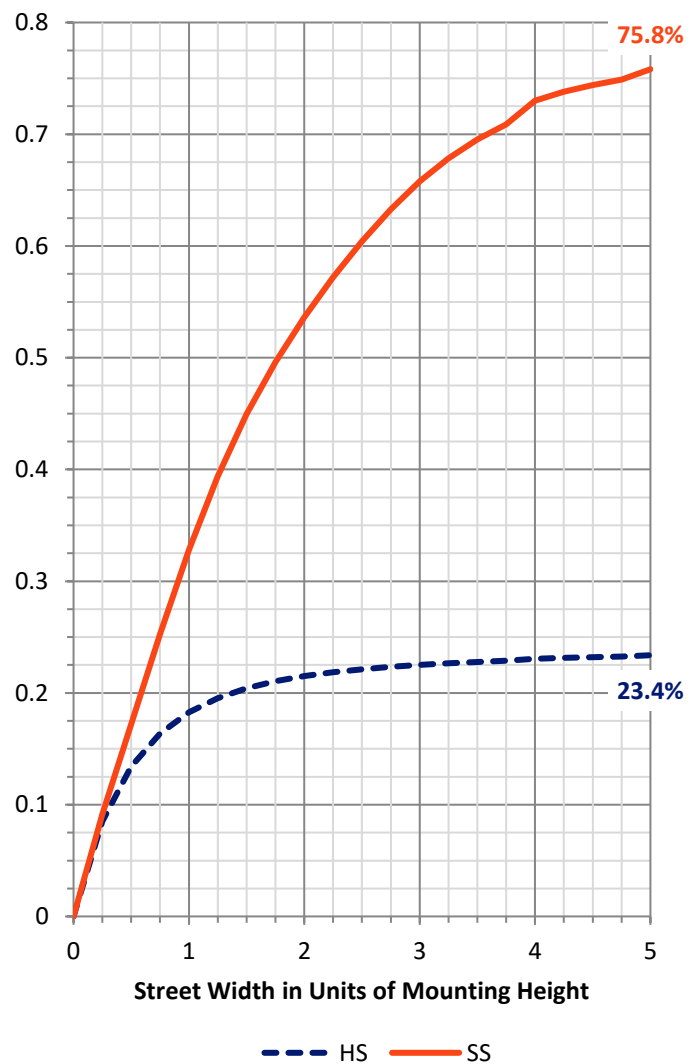
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17951.6	0.0	17951.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	57483.4	0.0	57483.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	75435.0	0.0	75435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.7	1.3
10°-20°	2745.3	3.6
20°-30°	4610.0	6.1
30°-40°	7164.6	9.5
40°-50°	10634.1	14.1
50°-60°	14681.0	19.5
60°-70°	17811.4	23.6
70°-80°	14719.8	19.5
80°-90°	2117.2	2.8
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°	75435.0	100.0
0°-180°	75435.0	100.0

Coefficient of Utilization



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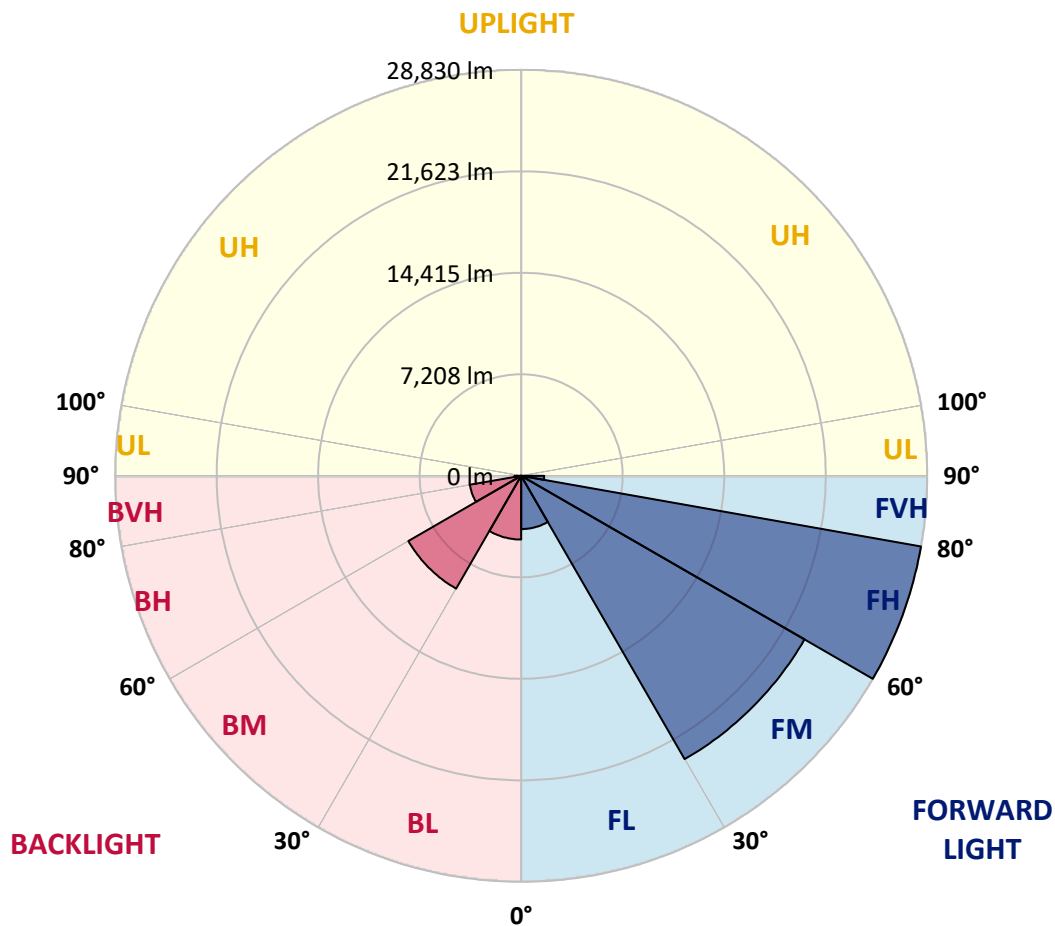
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3782.9	5.0			
FM	(30°-60°)	23229.9	30.8			
FH	(60°-80°)	28830.1	38.2			G5
FVH	(80°-90°)	1640.4	2.2			G5
BL	(0°-30°)	4524.1	6.0	B4/5000		
BM	(30°-60°)	9249.8	12.3	B5		
BH	(60°-80°)	3701.1	4.9	B4/5000		G4/5000
BVH	(80°-90°)	476.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2
2.5°	9269.3	9326.3	9350.8	9338.6	9399.7	9391.6	9477.2	9583.3	9730.1	9872.8	10080.8
5°	8555.6	8616.8	8669.8	8718.7	8837.0	8873.7	9008.3	9212.2	9481.3	9754.5	10097.1
7.5°	7890.9	7943.9	8025.5	8115.2	8315.0	8351.7	8576.0	8894.1	9269.3	9668.9	10141.9
10°	7348.5	7401.5	7487.2	7589.1	7837.9	7882.7	8168.2	8592.3	9081.7	9587.3	10190.9
12.5°	7116.1	7132.4	7181.3	7283.3	7499.4	7528.0	7842.0	8327.2	8898.2	9526.2	10264.3
15°	7103.8	7136.5	7140.5	7193.6	7373.0	7385.2	7674.8	8156.0	8784.0	9513.9	10374.4
17.5°	7226.2	7250.7	7213.9	7246.6	7397.5	7417.8	7646.2	8074.4	8747.3	9566.9	10562.0
20°	7552.4	7572.8	7462.7	7417.8	7528.0	7544.3	7768.6	8127.4	8784.0	9677.0	10818.9
22.5°	8245.7	8257.9	7988.8	7805.3	7813.4	7821.6	8017.3	8343.5	8926.7	9876.9	11145.1
25°	9326.3	9318.2	8890.0	8535.2	8331.3	8286.5	8417.0	8694.3	9167.3	10141.9	11565.2
27.5°	10590.5	10529.3	10101.2	9571.0	9126.5	9061.3	9032.7	9151.0	9509.9	10492.6	12079.0
30°	12017.8	11960.7	11499.9	10806.7	10190.9	10084.8	9815.7	9754.5	10019.6	10969.8	12792.6
32.5°	13583.8	13547.1	12996.5	12156.5	11332.7	11210.4	10757.7	10594.6	10802.6	11691.6	13787.7
35°	14896.9	14864.2	14407.5	13543.0	12535.7	12384.8	11924.0	11740.5	11846.5	12617.3	15088.5
37.5°	16083.6	16067.2	15675.8	14994.7	13954.9	13771.3	13253.4	13192.3	13171.9	13836.6	16666.7
40°	17184.6	17143.8	16736.0	16377.2	15606.4	15439.2	14982.5	14929.5	14774.5	15337.3	18452.9
42.5°	18403.9	18297.9	17706.6	17539.4	17331.4	17192.8	16919.5	16927.7	16585.2	17029.7	20345.0
45°	19399.0	19337.8	18730.2	18632.3	18856.6	18799.5	19036.0	19097.2	18432.5	18803.6	22310.6
47.5°	20467.4	20410.3	19896.5	19827.1	20434.8	20451.1	21287.1	21307.5	20234.9	20646.8	24280.3
50°	21784.6	21703.0	21193.3	21278.9	21959.9	22021.1	23550.3	23411.7	21894.7	22518.6	26233.7
52.5°	22653.2	22702.1	22592.0	22730.7	23660.4	23717.5	25776.9	25422.1	23538.1	24365.9	28150.3
55°	23293.4	23391.3	23733.9	24051.9	25454.8	25511.9	27877.1	27334.7	24900.2	26078.7	29952.8
57.5°	24117.2	23978.5	24618.8	25238.6	27159.4	27310.2	29920.1	29178.0	26107.2	27554.9	31188.4
60°	25299.8	25201.9	25699.4	26617.0	29067.9	29308.5	32081.5	30837.7	26992.2	28725.3	31429.0
62.5°	27697.6	27453.0	27530.5	28342.0	31473.9	31791.9	34520.1	32285.4	27432.6	29182.0	30140.4
65°	31282.2	30862.2	30470.7	31033.4	34862.7	35176.7	37272.7	33423.1	27269.5	28297.1	26718.9
67.5°	35796.5	35380.6	34899.4	35429.5	39854.1	40102.9	40669.7	34063.4	25984.9	24887.9	20671.3
70°	39519.7	39364.8	39939.7	42121.5	47826.6	47834.7	45025.0	33533.2	22465.6	17645.4	11960.7
72.5°	39026.3	38932.5	41962.4	48707.4	57874.7	57658.6	49147.8	29520.5	15133.4	7960.2	4481.7
75°	32016.2	32623.9	37317.6	48589.1	61483.7	61455.2	46623.6	18766.9	6259.7	3299.1	2316.3
77.5°	17168.3	18130.7	24227.3	35874.0	47997.8	48719.6	32778.8	6565.5	2687.4	2112.4	1602.6
80°	5599.1	6439.1	9656.7	18265.3	31188.4	31053.8	14048.6	2577.3	1839.2	1496.6	1109.2
82.5°	2377.5	2475.3	4314.5	8624.9	16006.1	15757.3	4473.5	1480.3	1292.7	1023.6	685.1
85°	929.8	1039.9	1904.4	3988.3	6932.6	6781.7	1614.9	734.0	827.8	668.8	407.8
87.5°	305.8	371.1	681.0	1366.1	2157.3	2079.8	395.6	252.8	358.9	305.8	146.8
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°	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2	10052.2
2.5°	10137.9	10203.1	10280.6	10394.8	10492.6	10574.2	10659.8	10712.9	10733.2	10794.4	10790.3
5°	10211.3	10354.0	10545.7	10733.2	10916.8	11026.9	11124.7	11173.7	11218.5	11251.2	11259.3
7.5°	10333.6	10517.1	10818.9	11063.6	11218.5	11308.2	11373.5	11357.2	11373.5	11381.6	11393.9
10°	10439.6	10696.5	11055.4	11287.9	11406.1	11410.2	11393.9	11336.8	11308.2	11312.3	11320.5
12.5°	10566.0	10851.5	11238.9	11434.7	11467.3	11377.6	11308.2	11210.4	11173.7	11157.4	11149.2
15°	10737.3	11063.6	11438.7	11512.1	11430.6	11316.4	11198.1	11039.1	10957.5	10892.3	10912.7
17.5°	10945.3	11304.2	11593.7	11540.7	11365.3	11177.7	10986.1	10745.5	10578.3	10509.0	10513.0
20°	11234.8	11557.0	11712.0	11479.5	11214.4	10929.0	10602.8	10309.1	10154.2	10084.8	10076.7
22.5°	11585.5	11895.5	11826.1	11373.5	10998.3	10541.6	10133.8	9917.7	9840.2	9791.2	9799.4
25°	12005.6	12270.6	11907.7	11218.5	10643.5	10027.8	9713.8	9644.4	9607.7	9571.0	9571.0
27.5°	12552.0	12694.8	11968.9	10990.2	10088.9	9481.3	9367.1	9379.4	9367.1	9306.0	9318.2
30°	13273.8	13245.3	12026.0	10619.1	9452.8	8987.9	8996.0	9049.0	9057.2	9016.4	9036.8
32.5°	14224.0	13934.5	12054.5	10137.9	8845.1	8555.6	8563.8	8620.9	8661.6	8592.3	8624.9
35°	15374.0	14737.8	12009.7	9534.3	8376.2	8143.7	8082.6	8098.9	8111.1	8045.9	8090.7
37.5°	16715.6	15639.1	11809.8	8865.5	7988.8	7740.0	7609.5	7499.4	7434.2	7373.0	7413.8
40°	18187.8	16621.9	11442.8	8213.1	7556.5	7311.8	7116.1	6908.1	6687.9	6606.3	6643.0
42.5°	19729.3	17633.2	10998.3	7589.1	7059.0	6859.2	6651.2	6349.4	6019.1	5851.9	5872.3
45°	21327.8	18669.0	10562.0	6973.3	6549.2	6463.6	6223.0	5860.1	5501.2	5289.1	5272.8
47.5°	22893.8	19647.7	9921.7	6353.5	6072.1	6165.9	5978.3	5643.9	5244.3	4909.9	4873.2
50°	24390.4	20565.3	8873.7	5725.5	5684.7	6076.2	5896.8	5415.6	4958.8	4530.6	4493.9
52.5°	25874.8	21307.5	7532.0	5154.6	5476.7	6051.7	5790.7	5260.6	4701.9	4253.3	4204.4
55°	27134.9	21690.8	6239.3	4665.2	5175.0	5843.7	5664.3	5077.1	4339.0	3861.8	3821.1
57.5°	27852.6	21380.9	5162.7	4184.0	4759.0	5501.2	5448.2	4685.6	3906.7	3539.7	3490.8
60°	27542.7	20124.8	4281.9	3764.0	4363.4	5130.1	5073.0	4298.2	3576.4	3229.8	3180.8
62.5°	25834.0	17731.1	3584.5	3397.0	4004.6	4750.8	4697.8	4000.5	3323.6	2989.2	2936.1
65°	22392.2	14423.8	3042.2	3091.1	3641.6	4294.1	4371.6	3751.7	3123.7	2797.5	2744.5
67.5°	17078.6	10447.8	2618.1	2826.0	3286.9	3845.5	4069.8	3572.3	2956.5	2646.6	2597.7
70°	9734.1	5933.5	2259.2	2569.1	2972.8	3429.6	3837.4	3429.6	2777.1	2520.2	2487.6
72.5°	3690.6	2724.1	1953.4	2312.2	2671.1	3078.9	3580.5	3205.3	2569.1	2377.5	2344.8
75°	1969.7	1659.7	1643.4	2010.4	2324.4	2736.3	3258.3	2985.1	2414.2	2512.0	2593.6
77.5°	1341.7	1174.5	1374.3	1720.9	1945.2	2357.1	2915.8	2650.7	2092.0	2083.8	1920.7
80°	929.8	831.9	1117.4	1386.5	1504.8	1981.9	2544.7	2275.5	1704.6	1590.4	1521.1
82.5°	558.7	542.4	836.0	1035.8	1064.4	1529.2	2108.3	1908.5	1394.7	1215.2	1223.4
85°	305.8	322.2	534.2	607.6	619.9	1068.4	1651.6	1476.2	1072.5	901.2	909.4
87.5°	85.6	110.1	195.7	240.6	297.7	554.6	982.8	876.8	538.3	375.2	375.2
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)