

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: P943989

Luminaire Tested: **GALN-SB8D-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943989
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-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67184 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - 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



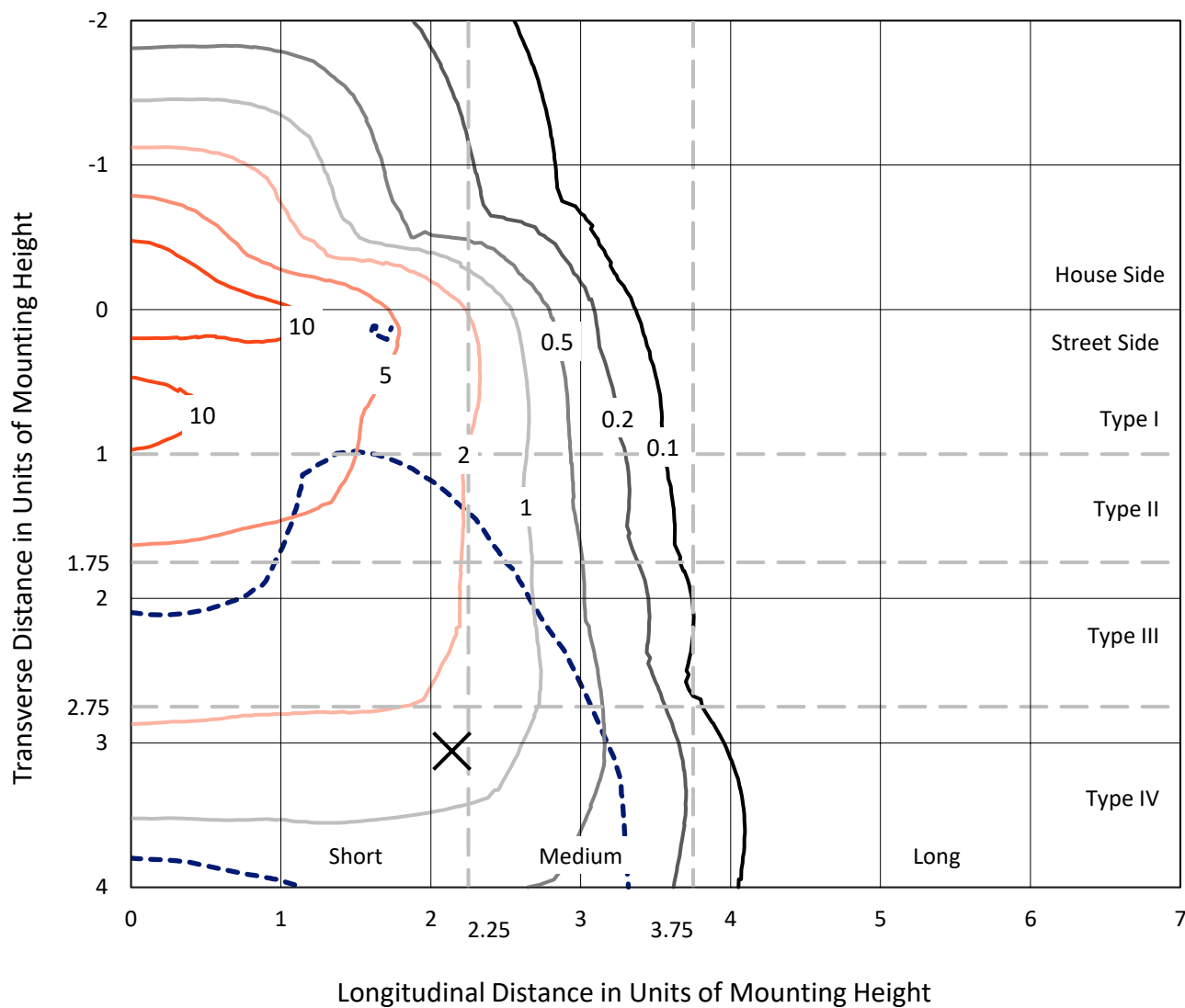
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

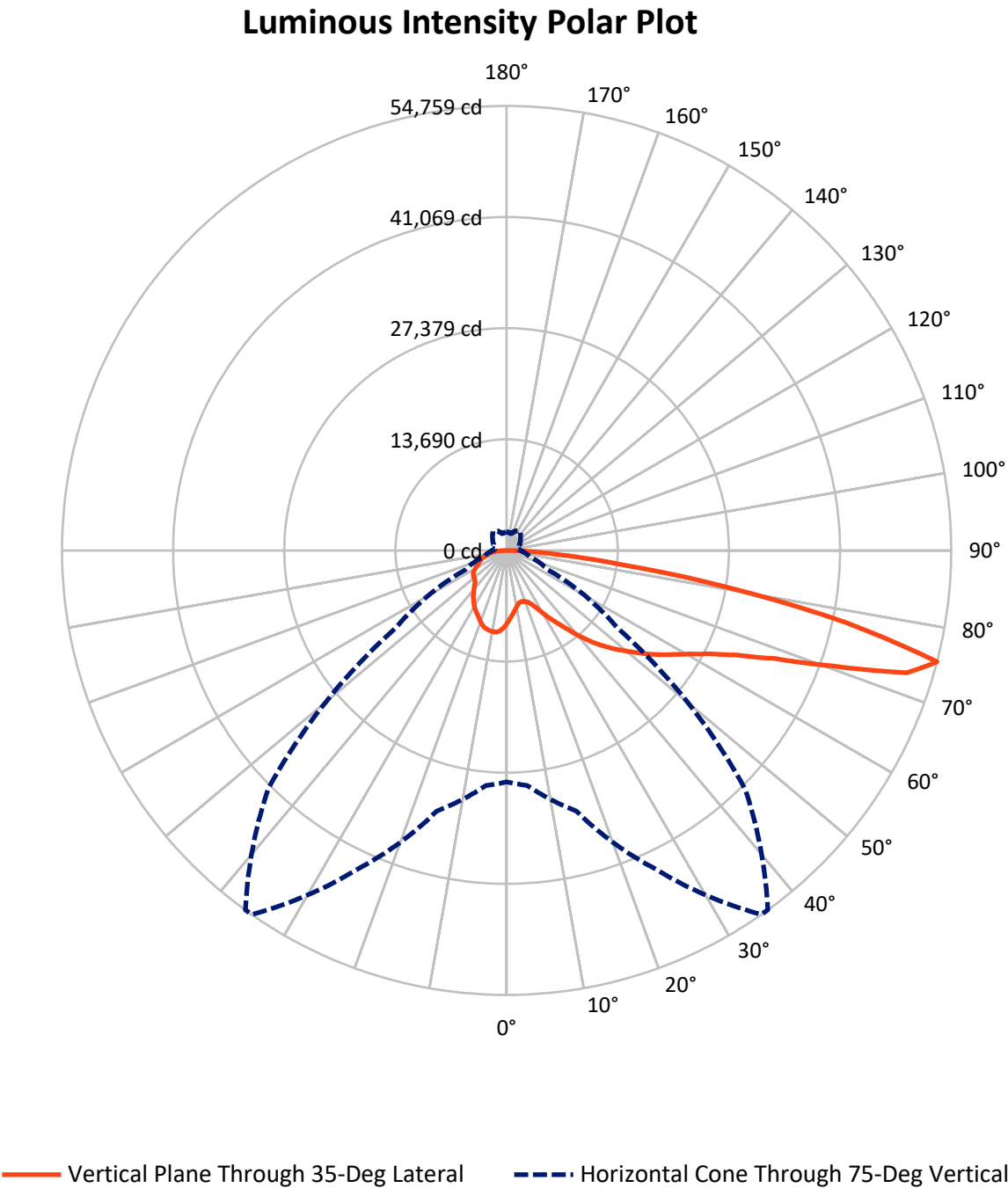
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc

Type IV - Short - N/A

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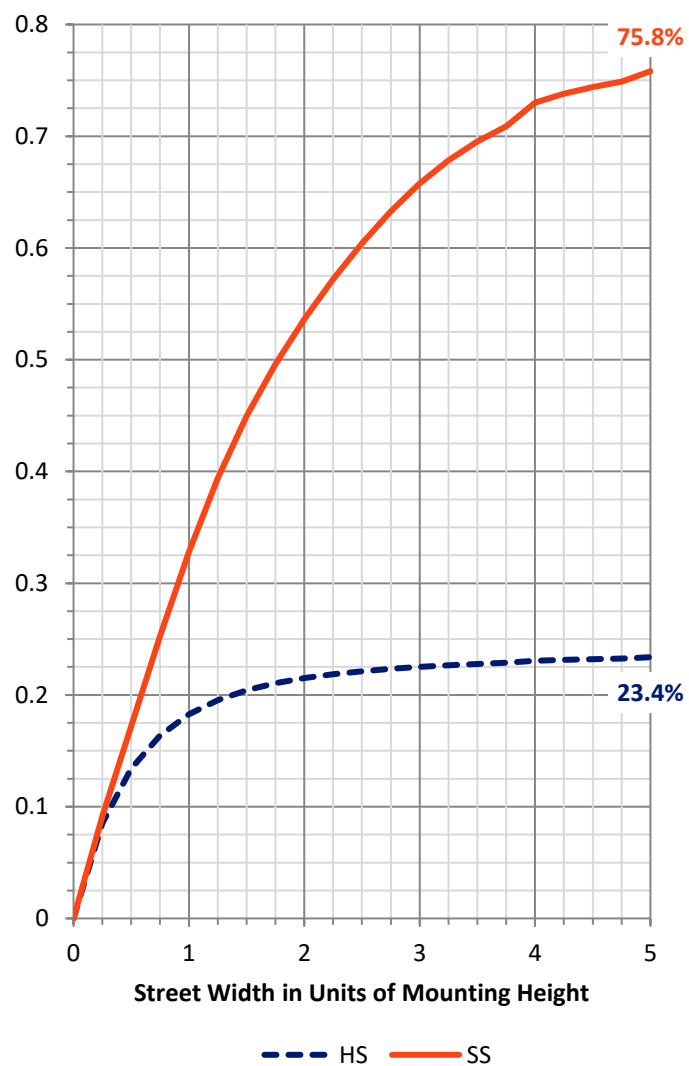
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15988.1	0.0	15988.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	51195.9	0.0	51195.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	67184.0	0.0	67184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.6	1.3
10°-20°	2445.0	3.6
20°-30°	4105.7	6.1
30°-40°	6380.9	9.5
40°-50°	9471.0	14.1
50°-60°	13075.2	19.5
60°-70°	15863.2	23.6
70°-80°	13109.7	19.5
80°-90°	1885.6	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°	67184.0	100.0
0°-180°	67184.0	100.0

Coefficient of Utilization



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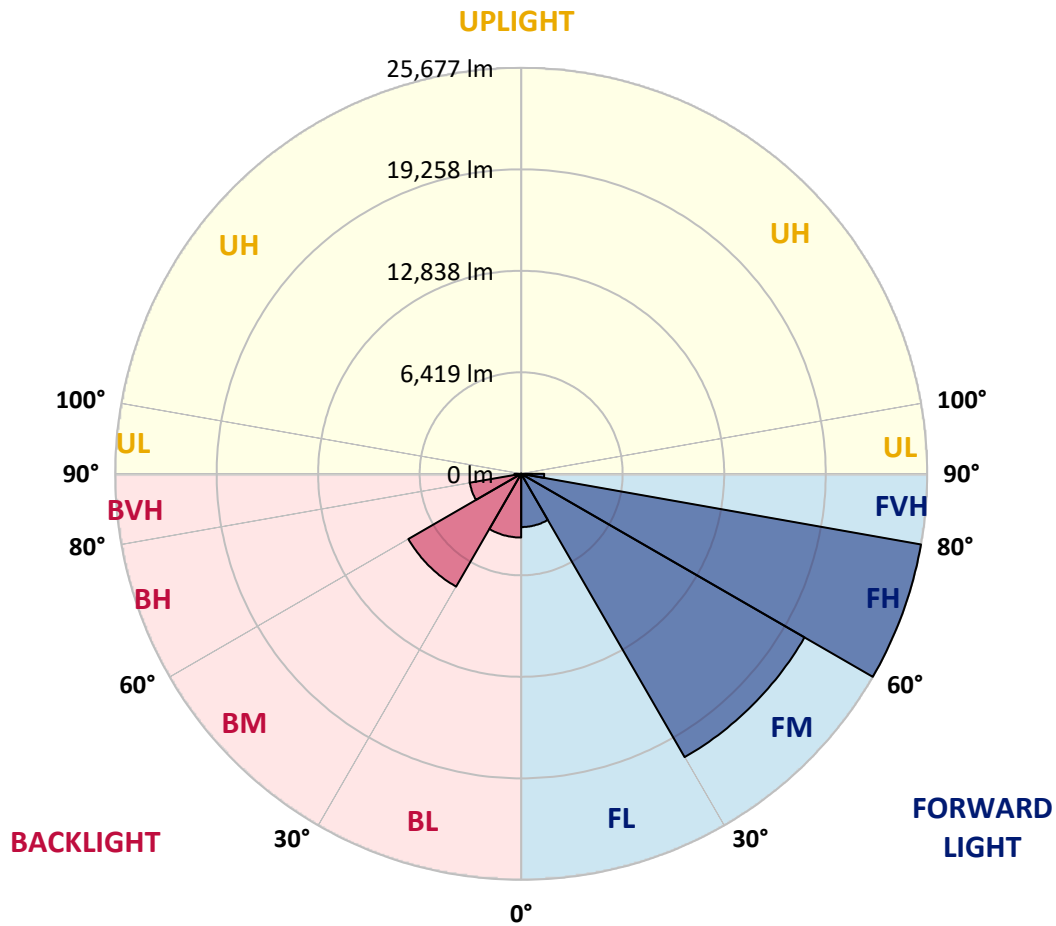
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3369.1	5.0			
FM	(30°-60°)	20689.0	30.8			
FH	(60°-80°)	25676.7	38.2			G5
FVH	(80°-90°)	1461.0	2.2			G5
BL	(0°-30°)	4029.2	6.0	B4/5000		
BM	(30°-60°)	8238.0	12.3	B4/8500		
BH	(60°-80°)	3296.3	4.9	B4/5000		G4/5000
BVH	(80°-90°)	424.6	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7
2.5°	8255.4	8306.2	8328.0	8317.1	8371.6	8364.3	8440.6	8535.0	8665.8	8792.9	8978.1
5°	7619.8	7674.3	7721.5	7765.1	7870.4	7903.1	8022.9	8204.5	8444.3	8687.6	8992.7
7.5°	7027.8	7075.0	7147.7	7227.6	7405.5	7438.2	7638.0	7921.3	8255.4	8611.3	9032.6
10°	6544.7	6592.0	6668.2	6759.0	6980.6	7020.5	7274.8	7652.5	8088.3	8538.7	9076.2
12.5°	6337.7	6352.3	6395.8	6486.6	6679.1	6704.6	6984.2	7416.4	7924.9	8484.2	9141.6
15°	6326.8	6355.9	6359.5	6406.7	6566.5	6577.4	6835.3	7263.9	7823.2	8473.3	9239.6
17.5°	6435.8	6457.6	6424.9	6454.0	6588.3	6606.5	6809.9	7191.2	7790.5	8520.5	9406.7
20°	6726.3	6744.5	6646.4	6606.5	6704.6	6719.1	6918.8	7238.4	7823.2	8618.6	9635.5
22.5°	7343.8	7354.7	7115.0	6951.5	6958.8	6966.1	7140.4	7430.9	7950.3	8796.5	9926.1
25°	8306.2	8299.0	7917.6	7601.6	7420.0	7380.1	7496.3	7743.3	8164.6	9032.6	10300.2
27.5°	9432.1	9377.7	8996.3	8524.2	8128.3	8070.2	8044.7	8150.1	8469.7	9345.0	10757.8
30°	10703.3	10652.5	10242.1	9624.6	9076.2	8981.8	8742.1	8687.6	8923.7	9769.9	11393.4
32.5°	12098.0	12065.3	11575.0	10826.8	10093.2	9984.2	9581.0	9435.8	9621.0	10412.8	12279.6
35°	13267.5	13238.4	12831.6	12061.7	11164.6	11030.2	10619.8	10456.3	10550.8	11237.2	13438.2
37.5°	14324.4	14309.8	13961.2	13354.6	12428.5	12265.0	11803.8	11749.3	11731.2	12323.2	14843.7
40°	15305.0	15268.7	14905.5	14585.9	13899.4	13750.5	13343.7	13296.5	13158.5	13659.7	16434.5
42.5°	16390.9	16296.5	15769.9	15621.0	15435.7	15312.2	15068.9	15076.2	14771.1	15167.0	18119.7
45°	17277.1	17222.6	16681.5	16594.3	16794.1	16743.2	16953.9	17008.4	16416.4	16746.9	19870.3
47.5°	18228.7	18177.8	17720.2	17658.5	18199.6	18214.2	18958.7	18976.9	18021.7	18388.5	21624.5
50°	19401.8	19329.2	18875.2	18951.4	19558.0	19612.5	20974.4	20850.9	19499.9	20055.6	23364.2
52.5°	20175.4	20219.0	20120.9	20244.4	21072.5	21123.3	22957.5	22641.5	20963.5	21700.8	25071.3
55°	20745.6	20832.8	21137.9	21421.2	22670.5	22721.4	24827.9	24344.9	22176.6	23226.2	26676.6
57.5°	21479.3	21355.8	21926.0	22478.1	24188.7	24323.1	26647.5	25986.5	23251.7	24541.0	27777.0
60°	22532.5	22445.4	22888.5	23705.6	25888.4	26102.7	28572.4	27464.7	24039.8	25583.4	27991.3
62.5°	24668.1	24450.2	24519.2	25242.0	28031.3	28314.6	30744.3	28754.0	24432.0	25990.1	26843.6
65°	27860.6	27486.5	27137.8	27639.0	31049.4	31329.1	33195.9	29767.3	24286.8	25202.0	23796.4
67.5°	31881.1	31510.7	31082.1	31554.3	35494.9	35716.5	36221.3	30337.6	23142.7	22165.7	18410.3
70°	35197.1	35059.1	35571.2	37514.3	42595.3	42602.6	40100.2	29865.4	20008.3	15715.4	10652.5
72.5°	34757.6	34674.1	37372.6	43379.8	51544.4	51351.9	43772.1	26291.6	13478.1	7089.5	3991.5
75°	28514.3	29055.5	33235.8	43274.5	54758.7	54733.3	41523.9	16714.2	5575.0	2938.2	2062.9
77.5°	15290.5	16147.6	21577.3	31950.1	42747.9	43390.7	29193.5	5847.4	2393.4	1881.3	1427.4
80°	4986.6	5734.8	8600.4	16267.4	27777.0	27657.2	12512.0	2295.4	1638.0	1332.9	987.9
82.5°	2117.4	2204.6	3842.6	7681.5	14255.3	14033.8	3984.2	1318.4	1151.3	911.6	610.2
85°	828.1	926.1	1696.1	3552.0	6174.3	6039.9	1438.2	653.7	737.3	595.6	363.2
87.5°	272.4	330.5	606.5	1216.7	1921.3	1852.3	352.3	225.2	319.6	272.4	130.7
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°	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7	8952.7
2.5°	9029.0	9087.1	9156.1	9257.8	9345.0	9417.6	9493.9	9541.1	9559.3	9613.7	9610.1
5°	9094.4	9221.5	9392.2	9559.3	9722.7	9820.8	9907.9	9951.5	9991.5	10020.5	10027.8
7.5°	9203.3	9366.8	9635.5	9853.4	9991.5	10071.4	10129.5	10114.9	10129.5	10136.7	10147.6
10°	9297.8	9526.6	9846.2	10053.2	10158.5	10162.2	10147.6	10096.8	10071.4	10075.0	10082.3
12.5°	9410.3	9664.6	10009.6	10183.9	10213.0	10133.1	10071.4	9984.2	9951.5	9937.0	9929.7
15°	9562.9	9853.4	10187.6	10253.0	10180.3	10078.6	9973.3	9831.7	9759.0	9700.9	9719.1
17.5°	9748.1	10067.7	10325.6	10278.4	10122.2	9955.1	9784.4	9570.2	9421.2	9359.5	9363.1
20°	10006.0	10292.9	10430.9	10223.9	9987.8	9733.6	9443.0	9181.5	9043.5	8981.8	8974.5
22.5°	10318.3	10594.4	10532.6	10129.5	9795.3	9388.6	9025.4	8832.9	8763.9	8720.3	8727.5
25°	10692.4	10928.5	10605.3	9991.5	9479.4	8930.9	8651.3	8589.5	8556.8	8524.2	8524.2
27.5°	11179.1	11306.2	10659.7	9788.1	8985.4	8444.3	8342.6	8353.5	8342.6	8288.1	8299.0
30°	11822.0	11796.5	10710.6	9457.6	8418.8	8004.8	8012.1	8059.3	8066.5	8030.2	8048.4
32.5°	12668.2	12410.3	10736.0	9029.0	7877.7	7619.8	7627.1	7677.9	7714.2	7652.5	7681.5
35°	13692.4	13125.8	10696.1	8491.5	7460.0	7253.0	7198.5	7213.0	7223.9	7165.8	7205.8
37.5°	14887.3	13928.5	10518.1	7895.8	7115.0	6893.4	6777.2	6679.1	6621.0	6566.5	6602.9
40°	16198.4	14803.8	10191.2	7314.7	6730.0	6512.1	6337.7	6152.5	5956.4	5883.7	5916.4
42.5°	17571.3	15704.5	9795.3	6759.0	6286.9	6108.9	5923.7	5654.9	5360.7	5211.8	5230.0
45°	18995.0	16627.0	9406.7	6210.6	5832.9	5756.6	5542.3	5219.1	4899.5	4710.6	4696.1
47.5°	20389.7	17498.7	8836.5	5658.6	5408.0	5491.5	5324.4	5026.6	4670.7	4372.9	4340.2
50°	21722.6	18315.9	7903.1	5099.2	5062.9	5411.6	5251.8	4823.2	4416.4	4035.1	4002.4
52.5°	23044.6	18976.9	6708.2	4590.8	4877.7	5389.8	5157.3	4685.2	4187.6	3788.1	3744.5
55°	24166.9	19318.3	5556.9	4154.9	4608.9	5204.6	5044.8	4521.8	3864.4	3439.4	3403.1
57.5°	24806.1	19042.2	4598.0	3726.4	4238.5	4899.5	4852.3	4173.1	3479.4	3152.5	3108.9
60°	24530.1	17923.6	3813.5	3352.3	3886.2	4569.0	4518.1	3828.1	3185.2	2876.5	2832.9
62.5°	23008.3	15791.7	3192.5	3025.4	3566.6	4231.2	4184.0	3562.9	2960.0	2662.2	2615.0
65°	19943.0	12846.2	2709.4	2753.0	3243.3	3824.4	3893.4	3341.4	2782.1	2491.5	2444.3
67.5°	15210.5	9305.0	2331.7	2516.9	2927.3	3424.9	3624.7	3181.6	2633.2	2357.1	2313.5
70°	8669.4	5284.5	2012.1	2288.1	2647.7	3054.5	3417.7	3054.5	2473.3	2244.5	2215.5
72.5°	3286.9	2426.1	1739.7	2059.3	2378.9	2742.1	3188.8	2854.7	2288.1	2117.4	2088.4
75°	1754.2	1478.2	1463.7	1790.5	2070.2	2437.0	2901.9	2658.6	2150.1	2237.3	2309.9
77.5°	1194.9	1046.0	1224.0	1532.7	1732.4	2099.3	2596.8	2360.8	1863.2	1855.9	1710.6
80°	828.1	740.9	995.2	1234.9	1340.2	1765.1	2266.3	2026.6	1518.1	1416.5	1354.7
82.5°	497.6	483.0	744.5	922.5	947.9	1362.0	1877.7	1699.7	1242.1	1082.3	1089.6
85°	272.4	286.9	475.8	541.2	552.1	951.6	1470.9	1314.8	955.2	802.7	809.9
87.5°	76.3	98.1	174.3	214.3	265.1	493.9	875.3	780.9	479.4	334.1	334.1
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)