

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: P944502

Luminaire Tested: **GALN-SB9C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62718 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 449.8
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



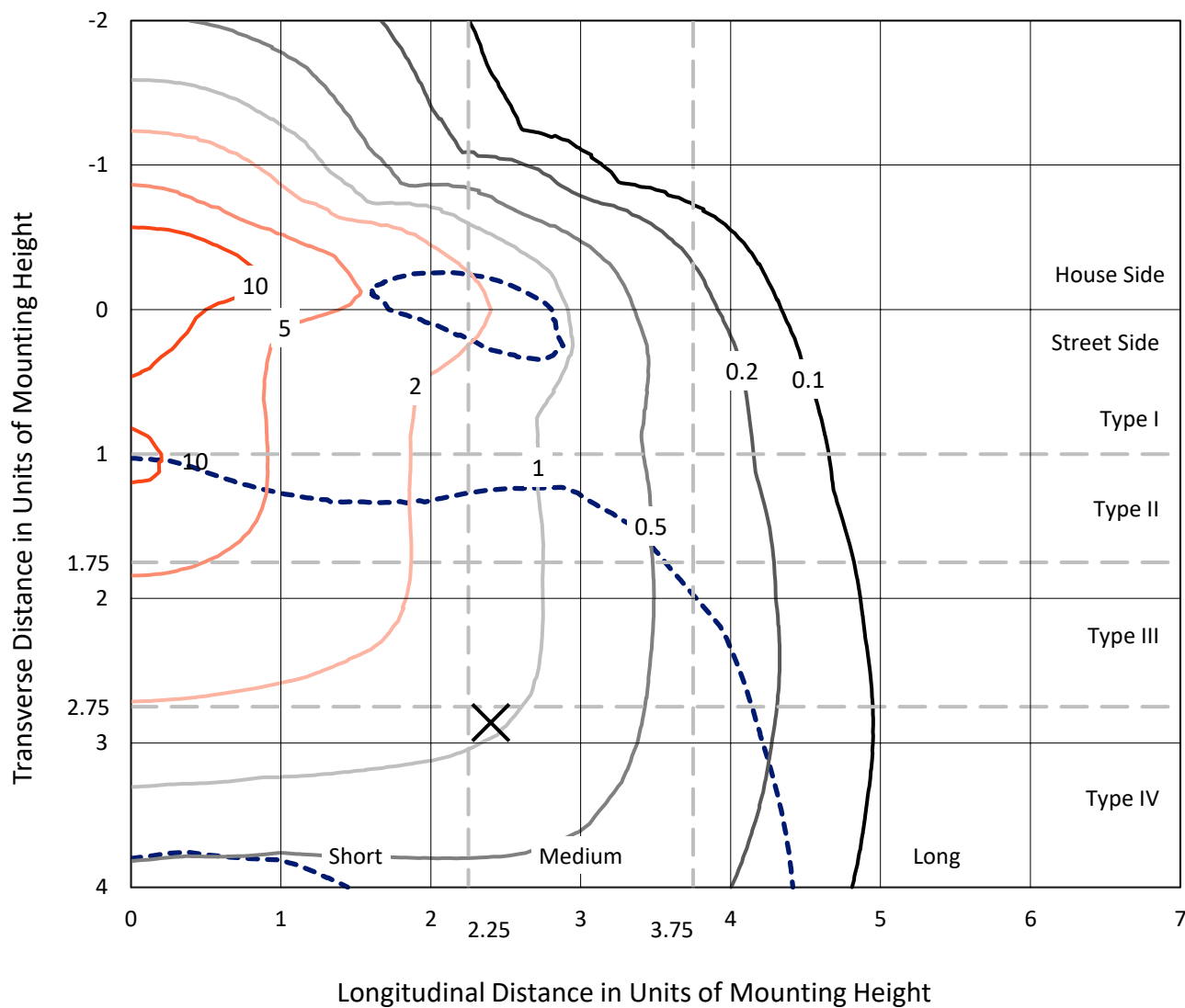
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



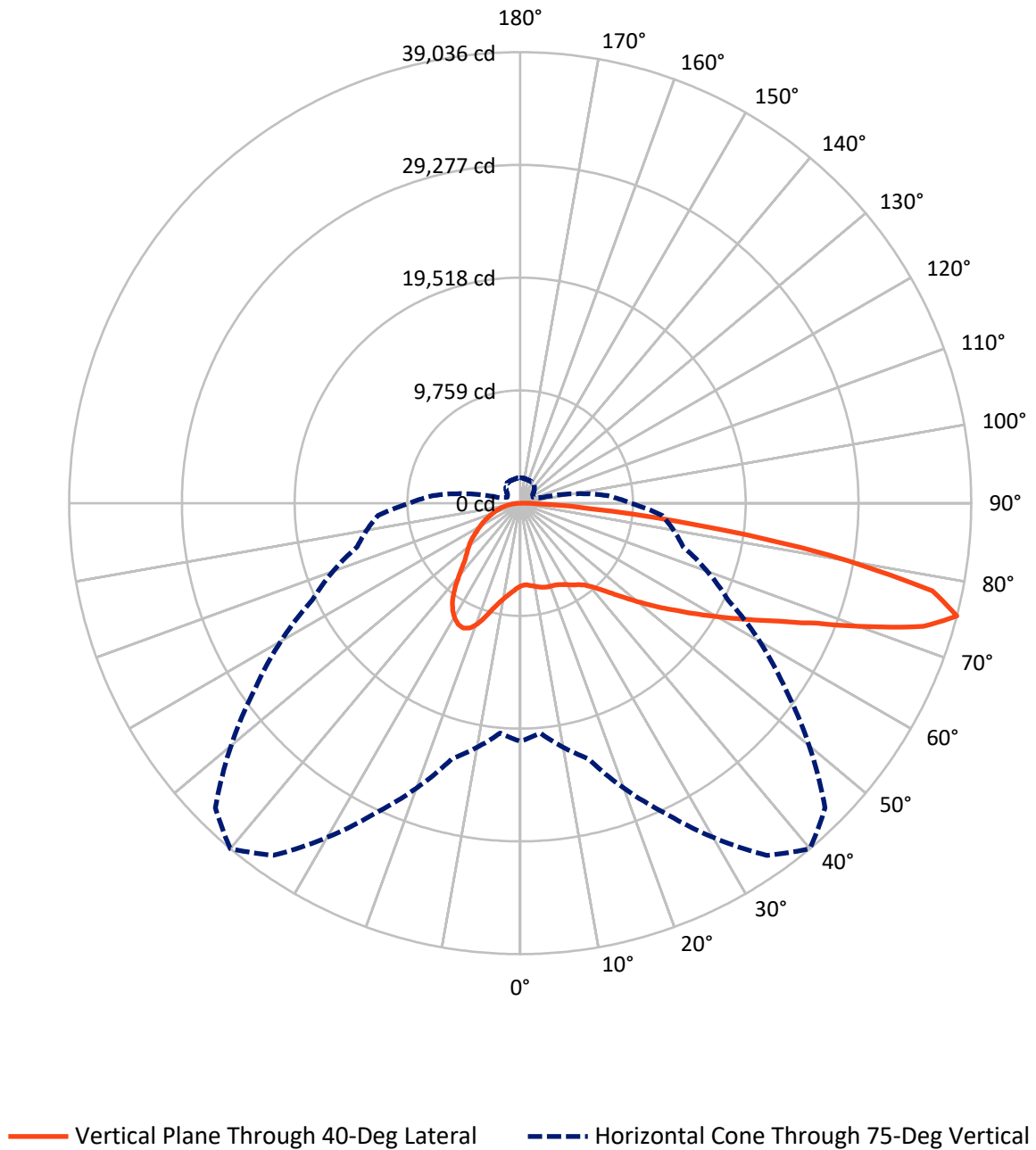
Based on 25 foot mounting height. Maximum calculated value = 14.8 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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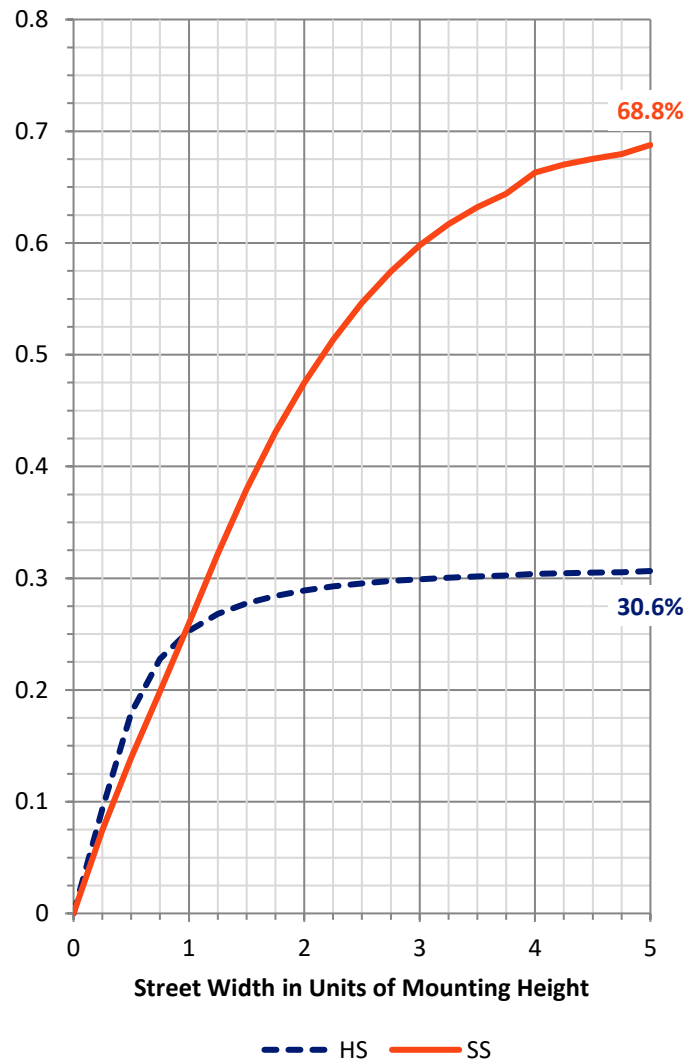
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19432.1	0.0	19432.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	43285.9	0.0	43285.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	62718.0	0.0	62718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.9	1.1
10°-20°	2403.6	3.8
20°-30°	4388.7	7.0
30°-40°	6224.4	9.9
40°-50°	8404.8	13.4
50°-60°	11306.8	18.0
60°-70°	14350.9	22.9
70°-80°	13024.3	20.8
80°-90°	1898.5	3.0
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°	62718.0	100.0
0°-180°	62718.0	100.0

Coefficient of Utilization



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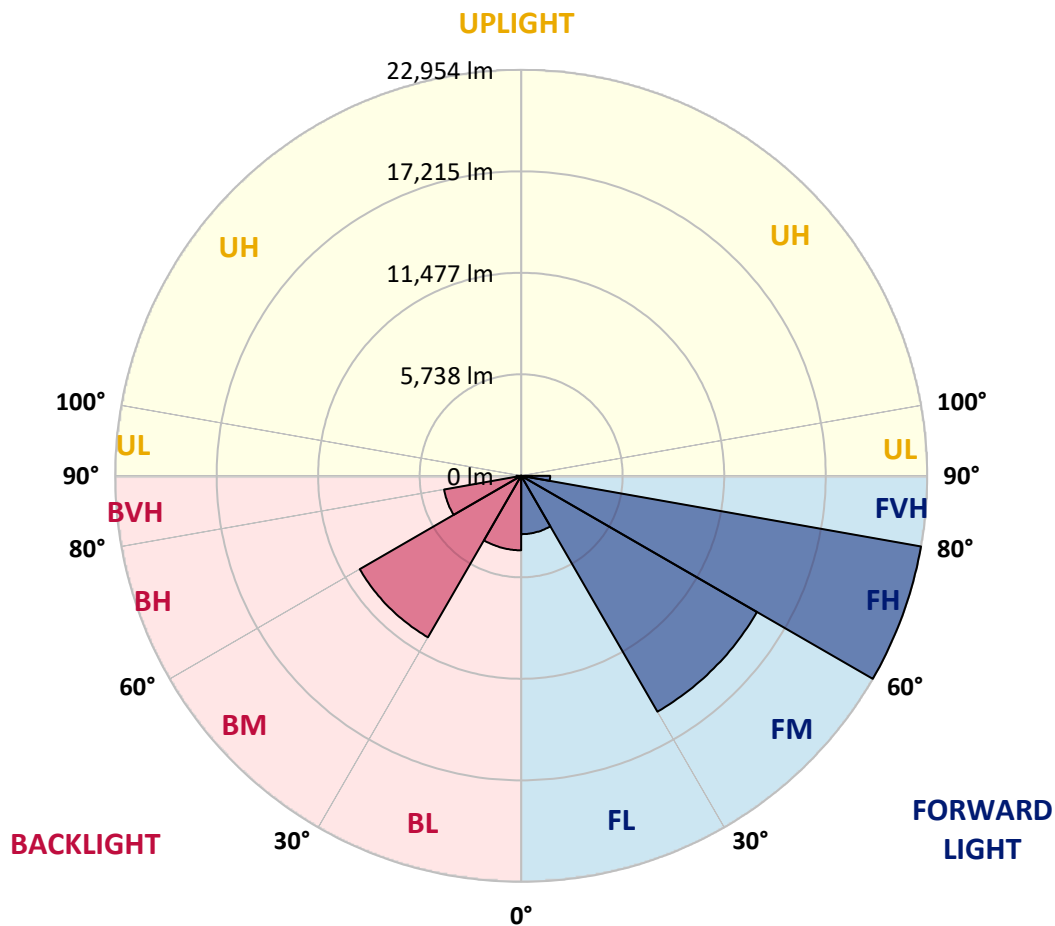
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3299.0	5.3			
FM	(30°-60°)	15395.9	24.5			
FH	(60°-80°)	22953.8	36.6			G5
FVH	(80°-90°)	1637.1	2.6			G5
BL	(0°-30°)	4209.2	6.7	B4/5000		
BM	(30°-60°)	10540.2	16.8	B5		
BH	(60°-80°)	4421.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	261.4	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9
2.5°	7062.1	7102.0	7092.1	7078.7	7078.7	7082.1	7078.7	7102.0	7125.3	7148.6	7185.2
5°	7135.3	7175.2	7155.3	7138.6	7125.3	7122.0	7112.0	7108.7	7122.0	7151.9	7201.8
7.5°	7278.3	7318.3	7288.3	7258.4	7231.8	7218.5	7205.2	7185.2	7175.2	7191.8	7261.7
10°	7438.0	7477.9	7441.3	7388.1	7344.9	7328.2	7314.9	7295.0	7281.7	7291.6	7368.1
12.5°	7597.7	7637.6	7587.7	7514.5	7458.0	7448.0	7431.4	7424.7	7421.4	7418.0	7494.6
15°	7747.4	7780.6	7717.4	7630.9	7571.1	7554.4	7537.8	7547.8	7564.4	7584.4	7670.9
17.5°	7863.8	7897.1	7803.9	7690.8	7634.3	7627.6	7617.6	7650.9	7697.5	7747.4	7853.8
20°	7970.2	8003.5	7883.8	7730.7	7664.2	7664.2	7667.5	7737.4	7803.9	7877.1	8023.5
22.5°	8119.9	8146.5	8000.2	7790.6	7694.1	7700.8	7727.4	7797.3	7880.4	7980.2	8183.1
25°	8342.8	8362.8	8183.1	7903.7	7793.9	7813.9	7837.2	7870.4	7950.3	8066.7	8339.5
27.5°	8702.1	8718.7	8482.5	8103.3	7937.0	7970.2	8003.5	7980.2	8016.8	8116.6	8465.9
30°	9207.7	9217.7	8918.3	8416.0	8179.8	8196.4	8203.1	8106.6	8036.8	8116.6	8555.7
32.5°	9806.5	9803.1	9447.2	8795.2	8455.9	8439.3	8382.7	8193.1	8030.1	8100.0	8635.5
35°	10734.5	10698.0	10238.9	9327.4	8768.6	8665.5	8532.4	8289.6	8063.4	8083.3	8705.4
37.5°	12271.4	12158.3	11522.9	10199.0	9234.3	8971.5	8775.2	8445.9	8136.6	8076.7	8788.6
40°	14004.5	13861.4	13162.9	11393.2	9932.9	9510.4	9194.4	8668.8	8256.3	8106.6	8911.6
42.5°	16060.2	15857.3	15105.5	12800.3	10817.7	10205.6	9729.9	8951.6	8432.6	8203.1	9078.0
45°	18585.0	18315.6	17251.1	14387.0	11932.1	11117.1	10481.7	9380.7	8702.1	8389.4	9327.4
47.5°	21136.4	21203.0	19689.4	16203.3	13269.3	12241.4	11423.1	10026.0	9094.6	8688.8	9729.9
50°	23847.5	23894.1	22114.4	18215.8	14786.2	13512.2	12480.9	10747.9	9640.1	9114.6	10332.0
52.5°	25963.2	25969.8	24316.6	20321.5	16366.3	14909.3	13621.9	11572.8	10272.2	9680.1	11133.7
55°	27287.1	27270.5	25860.0	22314.0	18182.5	16376.3	14886.0	12510.9	11043.9	10345.3	12141.6
57.5°	28248.5	28198.6	26924.5	24027.2	20118.5	18109.3	16316.4	13575.4	11955.4	11137.0	13468.9
60°	28614.4	28584.4	27646.4	25507.4	22154.3	20025.4	17966.3	14766.2	12989.9	12071.8	15175.4
62.5°	28754.1	28810.6	28354.9	26941.1	24333.2	22147.7	19779.2	16190.0	14154.2	13129.6	16975.0
65°	29246.4	29349.5	29256.4	28817.3	26794.8	24632.6	22184.3	17883.1	15424.9	14263.9	18854.5
67.5°	30221.1	30324.2	30364.1	31062.7	29801.9	27729.5	25184.8	19992.1	16911.8	15441.5	20268.2
70°	30197.8	30167.8	30873.0	32849.0	33567.5	32017.4	29229.8	22586.8	18684.8	16419.5	20447.9
72.5°	27486.7	27247.2	28913.7	32829.0	36701.0	36494.8	34169.6	25933.2	20215.0	16539.2	17743.4
75°	20620.8	19982.2	22926.1	29585.7	37223.3	39036.2	37309.8	28008.9	19852.4	14613.2	12347.9
77.5°	8818.5	8176.5	11646.0	21901.5	33314.7	36491.5	34429.0	24436.3	15847.3	9663.4	6064.2
80°	2308.6	2305.2	3519.4	9929.5	22656.6	26947.8	23641.3	15780.8	9054.7	3452.9	1673.2
82.5°	954.7	931.4	1294.0	3862.0	11070.5	15122.2	12341.2	7038.8	3269.9	934.7	555.5
85°	355.9	352.6	628.7	1333.9	3905.3	6237.1	4514.0	1799.6	815.0	455.7	249.5
87.5°	99.8	96.5	136.4	462.4	951.4	1443.7	771.7	296.1	229.5	179.6	73.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9	7171.9
2.5°	7195.2	7211.8	7241.7	7265.0	7295.0	7328.2	7374.8	7404.7	7434.7	7454.6	7441.3
5°	7225.1	7261.7	7338.2	7414.7	7504.5	7587.7	7684.2	7754.0	7810.6	7827.2	7833.9
7.5°	7291.6	7351.5	7481.2	7611.0	7754.0	7890.4	8030.1	8149.9	8246.3	8282.9	8286.3
10°	7408.1	7487.9	7670.9	7853.8	8043.4	8253.0	8432.6	8605.6	8742.0	8798.5	8801.9
12.5°	7554.4	7654.2	7893.7	8146.5	8409.3	8698.7	8931.6	9144.5	9314.1	9390.6	9390.6
15°	7744.0	7873.8	8179.8	8519.1	8905.0	9307.5	9603.5	9839.7	10029.3	10122.5	10115.8
17.5°	7950.3	8123.3	8509.1	9021.4	9573.6	10102.5	10448.5	10621.4	10817.7	10907.5	10904.2
20°	8149.9	8362.8	8915.0	9660.1	10395.2	10957.4	11236.8	11283.4	11296.7	11306.7	11333.3
22.5°	8356.1	8642.2	9423.9	10465.1	11253.5	11642.7	11682.6	11483.0	11203.6	11073.8	11110.4
25°	8582.3	8961.5	10089.2	11353.3	11992.0	12038.5	11732.5	11246.8	10717.9	10475.1	10511.7
27.5°	8801.9	9330.8	10887.6	12201.5	12524.2	12115.0	11456.4	10767.8	10129.1	9873.0	9902.9
30°	9021.4	9753.2	11769.1	12943.3	12767.0	11925.4	11020.6	10252.2	9610.2	9340.8	9370.7
32.5°	9244.3	10245.6	12783.7	13478.9	12723.8	11522.9	10478.4	9673.4	9107.9	8825.1	8861.7
35°	9497.1	10851.0	13745.0	13771.6	12434.4	10930.8	9763.2	8981.5	8489.2	8263.0	8312.9
37.5°	9826.4	11619.4	14593.3	13844.8	11928.8	10062.6	8875.0	8163.2	7757.3	7654.2	7727.4
40°	10235.6	12544.1	15241.9	13728.4	11180.3	9008.1	7903.7	7334.9	7105.4	7128.6	7208.5
42.5°	10767.8	13578.7	15697.7	13429.0	10139.1	7920.3	7052.1	6799.3	6909.1	7002.2	7088.7
45°	11459.7	14653.1	15980.4	12920.0	8961.5	6998.9	6549.8	6609.7	6692.9	6702.9	6769.4
47.5°	12344.6	15740.9	16166.7	12151.6	7760.7	6350.2	6230.5	6243.8	6227.2	6157.3	6210.5
50°	13449.0	16798.7	16333.0	11133.7	6739.4	5944.4	5784.7	5738.2	5508.6	5282.4	5312.4
52.5°	14706.4	17770.0	16402.9	9869.7	5944.4	5605.1	5345.7	5052.9	4623.8	4553.9	4577.2
55°	16103.5	18668.2	16223.2	8316.2	5275.8	5169.3	4776.8	4424.2	4377.6	4317.8	4327.7
57.5°	17773.4	19636.2	15857.3	6583.1	4590.5	4660.4	4277.9	4317.8	4234.6	4141.5	4124.8
60°	19599.6	20637.5	15215.3	5003.0	3882.0	4025.0	4148.1	4144.8	4121.5	4045.0	4018.4
62.5°	21242.9	21296.1	13951.2	3832.1	3259.9	3532.7	3868.7	3865.4	3845.4	3802.2	3785.5
65°	22220.9	21196.3	11842.3	3017.1	2747.7	3126.9	3489.5	3516.1	3519.4	3516.1	3516.1
67.5°	22047.9	20028.7	8948.2	2401.7	2325.2	2714.4	3113.6	3150.2	3176.8	3183.4	3190.1
70°	20091.9	17464.0	5834.6	1916.1	1949.3	2351.8	2757.7	2794.2	2817.5	2844.1	2857.4
72.5°	15661.1	12840.2	3339.8	1550.1	1620.0	2039.1	2405.0	2448.3	2461.6	2511.5	2531.4
75°	9543.7	7551.1	1803.0	1220.8	1330.6	1743.1	2055.8	2105.7	2128.9	2188.8	2195.5
77.5°	4537.3	3269.9	1027.9	951.4	1071.1	1423.7	1736.4	1793.0	1729.8	1763.0	1736.4
80°	1533.5	1214.2	648.7	725.2	818.3	1111.0	1390.5	1447.0	1314.0	1307.3	1294.0
82.5°	535.6	492.3	412.5	482.3	528.9	795.0	1051.2	1124.3	978.0	974.7	928.1
85°	209.6	199.6	229.5	262.8	316.0	489.0	691.9	728.5	602.1	485.7	479.0
87.5°	43.2	46.6	56.6	59.9	96.5	169.7	249.5	306.0	242.8	206.2	189.6
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)