

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: P944332

Luminaire Tested: **GALN-SB9B-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944332
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-SB9B-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47157 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5
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



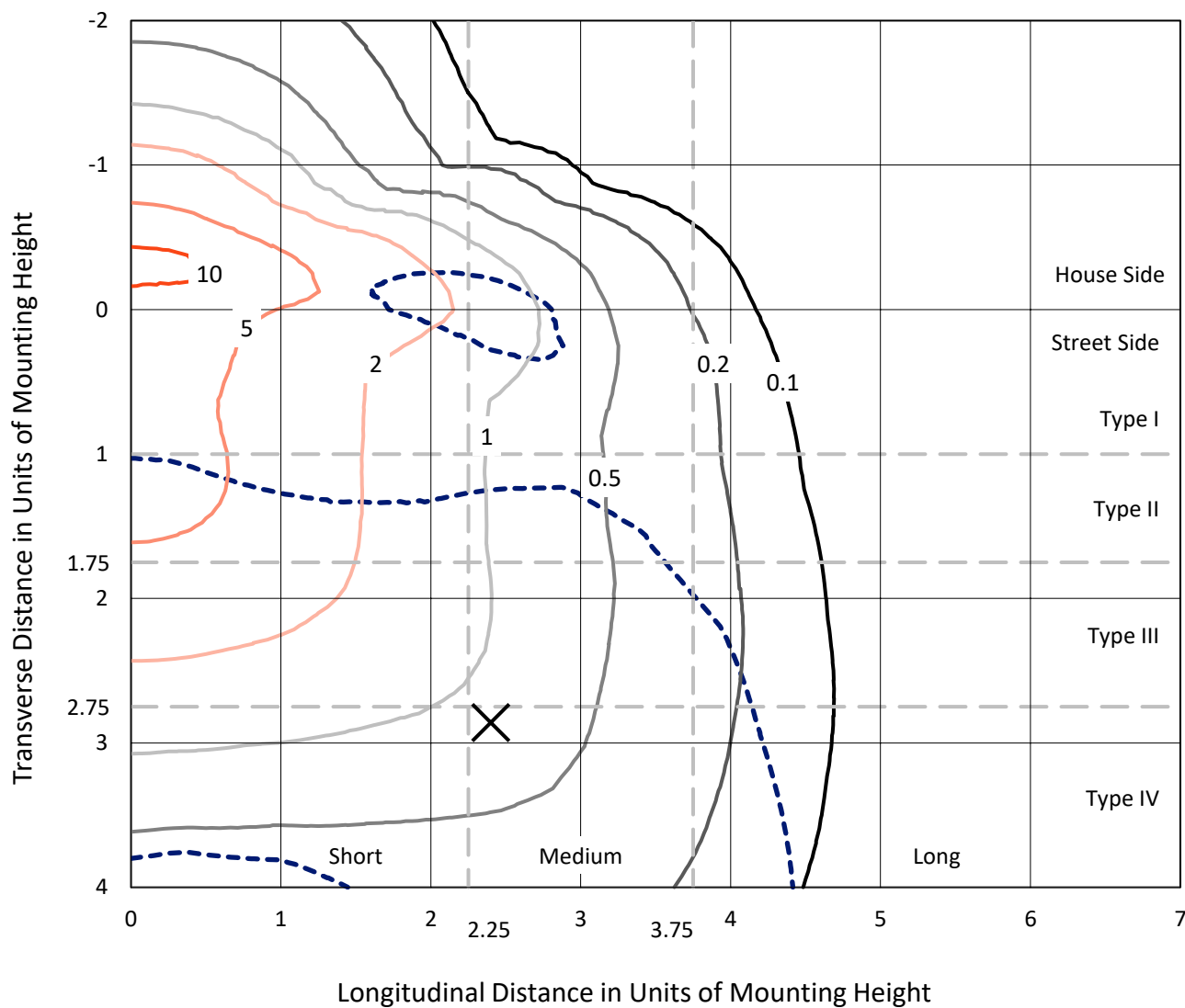
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

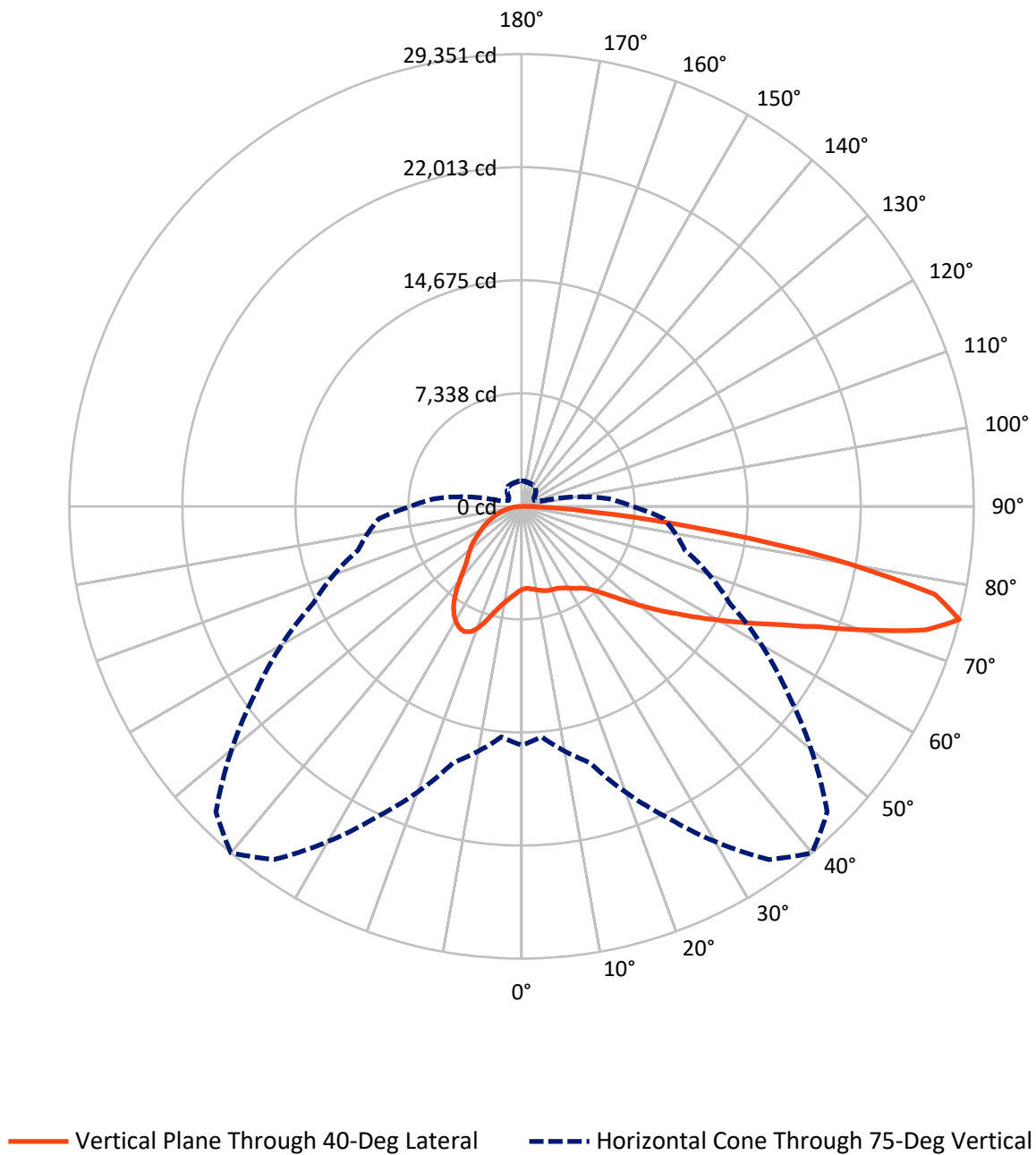


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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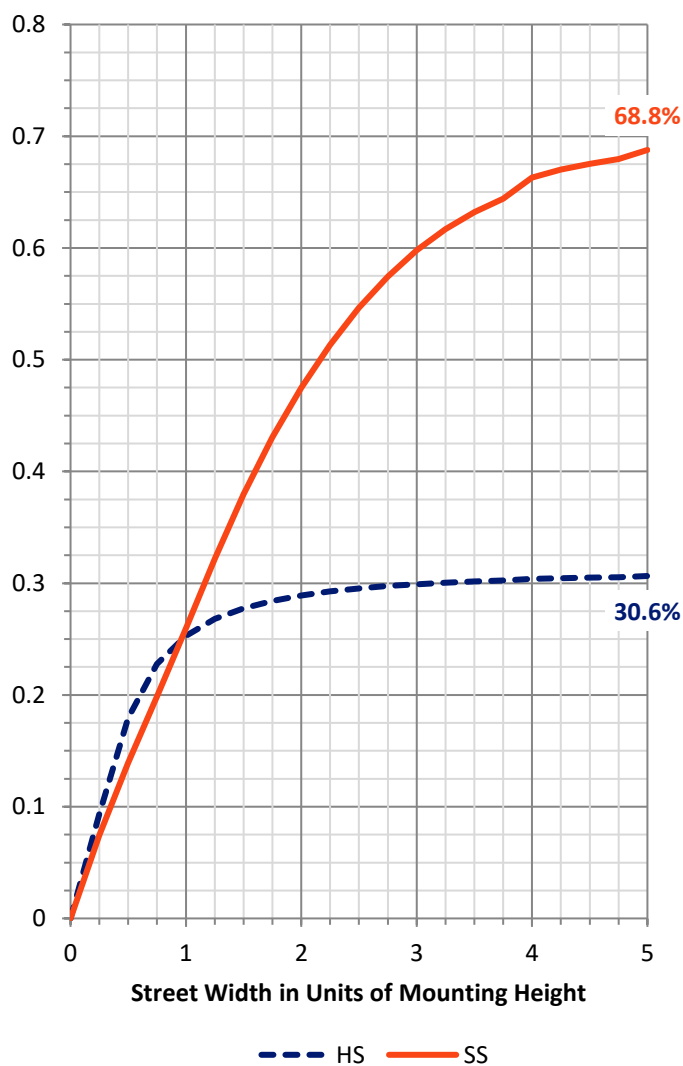
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14610.8	0.0	14610.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	32546.2	0.0	32546.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	47157.0	0.0	47157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.3	1.1
10°-20°	1807.2	3.8
20°-30°	3299.8	7.0
30°-40°	4680.1	9.9
40°-50°	6319.5	13.4
50°-60°	8501.4	18.0
60°-70°	10790.3	22.9
70°-80°	9792.8	20.8
80°-90°	1427.5	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°	47157.0	100.0
0°-180°	47157.0	100.0

Coefficient of Utilization



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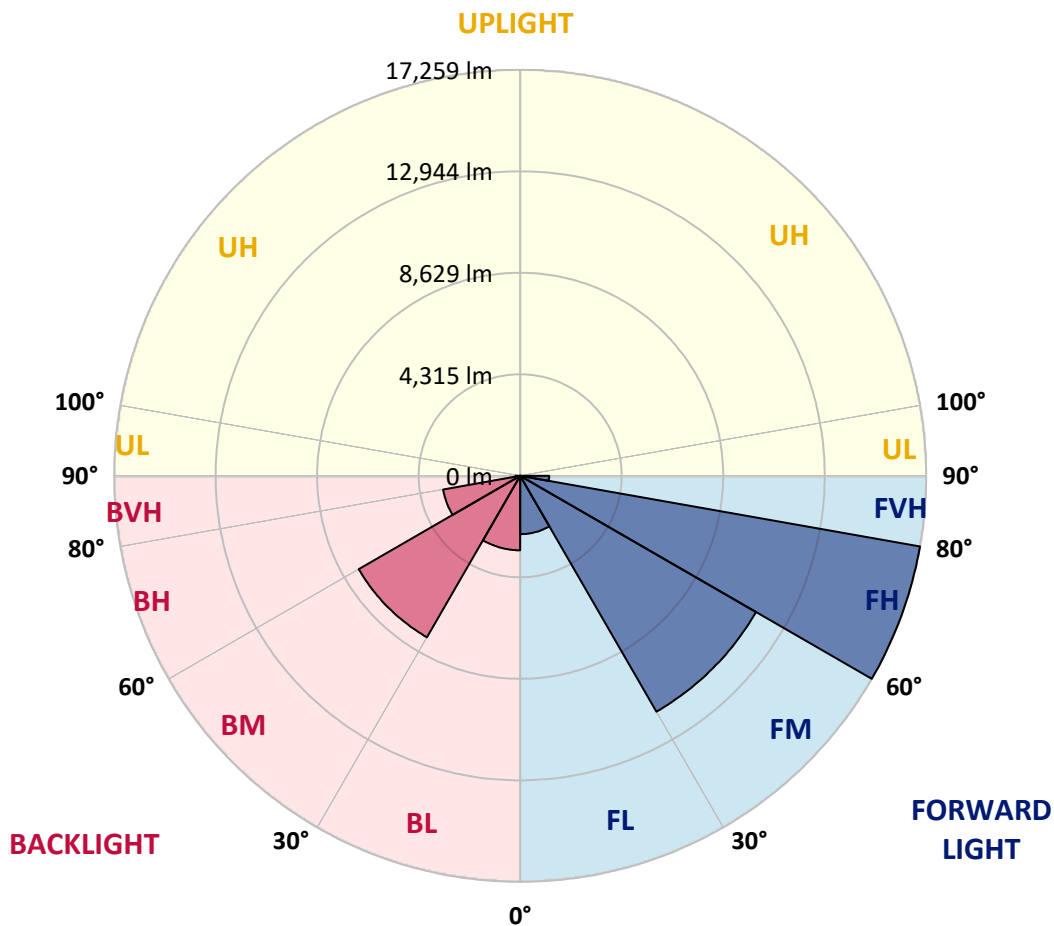
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2480.5	5.3			
FM	(30°-60°)	11576.0	24.5			
FH	(60°-80°)	17258.7	36.6			G5
FVH	(80°-90°)	1231.0	2.6			G5
BL	(0°-30°)	3164.8	6.7	B4/5000		
BM	(30°-60°)	7925.0	16.8	B4/8500		
BH	(60°-80°)	3324.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	196.5	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5
2.5°	5309.9	5339.9	5332.4	5322.4	5322.4	5324.9	5322.4	5339.9	5357.4	5375.0	5402.5
5°	5365.0	5395.0	5380.0	5367.5	5357.4	5354.9	5347.4	5344.9	5354.9	5377.5	5415.0
7.5°	5472.5	5502.5	5480.0	5457.5	5437.5	5427.5	5417.5	5402.5	5395.0	5407.5	5460.0
10°	5592.6	5622.6	5595.1	5555.0	5522.5	5510.0	5500.0	5485.0	5475.0	5482.5	5540.0
12.5°	5712.6	5742.6	5705.1	5650.1	5607.6	5600.1	5587.6	5582.6	5580.1	5577.6	5635.1
15°	5825.2	5850.2	5802.7	5737.6	5692.6	5680.1	5667.6	5675.1	5687.6	5702.6	5767.6
17.5°	5912.7	5937.7	5867.7	5782.6	5740.1	5735.1	5727.6	5752.6	5787.6	5825.2	5905.2
20°	5992.7	6017.8	5927.7	5812.7	5762.6	5762.6	5765.1	5817.7	5867.7	5922.7	6032.8
22.5°	6105.3	6125.3	6015.3	5857.7	5785.1	5790.1	5810.2	5862.7	5925.2	6000.2	6152.8
25°	6272.9	6287.9	6152.8	5942.7	5860.2	5875.2	5892.7	5917.7	5977.7	6065.3	6270.4
27.5°	6543.0	6555.5	6377.9	6092.8	5967.7	5992.7	6017.8	6000.2	6027.8	6102.8	6365.4
30°	6923.2	6930.7	6705.6	6327.9	6150.3	6162.8	6167.8	6095.3	6042.8	6102.8	6432.9
32.5°	7373.4	7370.9	7103.2	6613.0	6357.9	6345.4	6302.9	6160.3	6037.8	6090.3	6493.0
35°	8071.2	8043.7	7698.5	7013.2	6593.0	6515.5	6415.4	6232.9	6062.8	6077.8	6545.5
37.5°	9226.7	9141.7	8664.0	7668.5	6943.2	6745.6	6598.0	6350.4	6117.8	6072.8	6608.0
40°	10529.8	10422.3	9897.0	8566.4	7468.4	7150.8	6913.2	6518.0	6207.8	6095.3	6700.6
42.5°	12075.5	11923.0	11357.7	9624.4	8133.7	7673.5	7315.8	6730.6	6340.4	6167.8	6825.6
45°	13973.9	13771.3	12970.9	10817.4	8971.6	8358.8	7881.1	7053.2	6543.0	6307.9	7013.2
47.5°	15892.3	15942.3	14804.3	12183.1	9977.1	9204.2	8588.9	7538.4	6838.1	6533.0	7315.8
50°	17930.7	17965.7	16627.6	13696.3	11117.6	10159.6	9384.3	8081.2	7248.3	6853.1	7768.6
52.5°	19521.4	19526.4	18283.4	15279.5	12305.6	11210.1	10242.2	8701.5	7723.5	7278.3	8371.3
55°	20516.9	20504.4	19443.9	16777.7	13671.3	12313.1	11192.6	9406.8	8303.8	7778.6	9129.2
57.5°	21239.7	21202.2	20244.3	18065.8	15126.9	13616.2	12268.1	10207.2	8989.1	8373.8	10127.1
60°	21514.8	21492.3	20787.0	19178.8	16657.6	15056.9	13508.7	11102.6	9767.0	9076.7	11410.2
62.5°	21619.9	21662.4	21319.7	20256.8	18295.9	16652.6	14871.8	12173.1	10642.4	9872.0	12763.3
65°	21990.1	22067.6	21997.6	21667.4	20146.7	18521.0	16680.1	13446.1	11597.8	10724.9	14176.5
67.5°	22722.9	22800.4	22830.4	23355.7	22407.7	20849.5	18936.2	15031.9	12715.8	11610.3	15239.5
70°	22705.4	22682.9	23213.1	24698.8	25239.0	24073.5	21977.5	16982.8	14048.9	12345.6	15374.5
72.5°	20667.0	20486.9	21739.9	24683.8	27595.1	27440.0	25691.7	19498.9	15199.5	12435.7	13341.1
75°	15504.6	15024.4	17237.9	22245.2	27987.8	29350.9	28052.8	21059.6	14926.8	10987.5	9284.2
77.5°	6630.5	6147.8	8756.5	16467.5	25049.0	27437.5	25886.8	18373.4	11915.4	7265.8	4559.6
80°	1735.8	1733.3	2646.2	7465.9	17035.3	20261.8	17775.6	11865.4	6808.1	2596.2	1258.1
82.5°	717.8	700.3	972.9	2903.8	8323.8	11370.2	9279.2	5292.4	2458.6	702.8	417.7
85°	267.6	265.1	472.7	1003.0	2936.3	4689.6	3394.1	1353.1	612.8	342.7	187.6
87.5°	75.0	72.5	102.5	347.7	715.3	1085.5	580.3	222.6	172.6	135.1	55.0
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°	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5	5392.5
2.5°	5410.0	5422.5	5445.0	5462.5	5485.0	5510.0	5545.0	5567.5	5590.1	5605.1	5595.1
5°	5432.5	5460.0	5517.5	5575.0	5642.6	5705.1	5777.6	5830.2	5872.7	5885.2	5890.2
7.5°	5482.5	5527.5	5625.1	5722.6	5830.2	5932.7	6037.8	6127.8	6200.3	6227.8	6230.3
10°	5570.0	5630.1	5767.6	5905.2	6047.8	6205.3	6340.4	6470.5	6573.0	6615.5	6618.0
12.5°	5680.1	5755.1	5935.2	6125.3	6322.9	6540.5	6715.6	6875.6	7003.2	7060.7	7060.7
15°	5822.7	5920.2	6150.3	6405.4	6695.6	6998.2	7220.8	7398.4	7540.9	7611.0	7606.0
17.5°	5977.7	6107.8	6397.9	6783.1	7198.3	7596.0	7856.1	7986.2	8133.7	8201.3	8198.7
20°	6127.8	6287.9	6703.1	7263.3	7816.1	8238.8	8448.9	8483.9	8493.9	8501.4	8521.4
22.5°	6282.9	6498.0	7085.7	7868.6	8461.4	8754.0	8784.0	8633.9	8423.9	8326.3	8353.8
25°	6453.0	6738.1	7586.0	8536.4	9016.6	9051.6	8821.5	8456.4	8058.7	7876.1	7903.6
27.5°	6618.0	7015.7	8186.2	9174.2	9416.8	9109.2	8613.9	8096.2	7616.0	7423.4	7445.9
30°	6783.1	7333.4	8849.0	9732.0	9599.4	8966.6	8286.3	7708.5	7225.8	7023.2	7045.7
32.5°	6950.7	7703.5	9611.9	10134.6	9566.9	8664.0	7878.6	7273.3	6848.1	6635.5	6663.0
35°	7140.8	8158.7	10334.7	10354.7	9349.3	8218.8	7340.9	6753.1	6382.9	6212.8	6250.4
37.5°	7388.4	8736.5	10972.5	10409.8	8969.1	7566.0	6673.1	6137.8	5832.7	5755.1	5810.2
40°	7696.0	9431.8	11460.2	10322.2	8406.3	6773.1	5942.7	5515.0	5342.4	5360.0	5420.0
42.5°	8096.2	10209.7	11802.9	10097.1	7623.5	5955.2	5302.4	5112.3	5194.9	5264.9	5329.9
45°	8616.4	11017.5	12015.5	9714.4	6738.1	5262.4	4924.8	4969.8	5032.3	5039.8	5089.8
47.5°	9281.7	11835.4	12155.6	9136.7	5835.2	4774.7	4684.6	4694.6	4682.1	4629.6	4669.6
50°	10112.1	12630.8	12280.6	8371.3	5067.3	4469.5	4349.5	4314.5	4141.9	3971.8	3994.3
52.5°	11057.6	13361.1	12333.1	7420.9	4469.5	4214.4	4019.3	3799.2	3476.6	3424.1	3441.6
55°	12108.0	14036.4	12198.1	6252.9	3966.8	3886.8	3591.6	3326.5	3291.5	3246.5	3254.0
57.5°	13363.6	14764.3	11923.0	4949.8	3451.6	3504.1	3216.5	3246.5	3184.0	3113.9	3101.4
60°	14736.7	15517.1	11440.2	3761.7	2918.8	3026.4	3118.9	3116.4	3098.9	3041.4	3021.4
62.5°	15972.3	16012.3	10489.8	2881.3	2451.1	2656.2	2908.8	2906.3	2891.3	2858.8	2846.3
65°	16707.6	15937.3	8904.1	2268.5	2065.9	2351.1	2623.7	2643.7	2646.2	2643.7	2643.7
67.5°	16577.6	15059.4	6728.1	1805.8	1748.3	2040.9	2341.1	2368.6	2388.6	2393.6	2398.6
70°	15106.9	13131.0	4387.0	1440.7	1465.7	1768.3	2073.4	2101.0	2118.5	2138.5	2148.5
72.5°	11775.4	9654.4	2511.1	1165.5	1218.1	1533.2	1808.3	1840.8	1850.8	1888.4	1903.4
75°	7175.8	5677.6	1355.6	917.9	1000.5	1310.6	1545.7	1583.2	1600.7	1645.8	1650.8
77.5°	3411.6	2458.6	772.9	715.3	805.4	1070.5	1305.6	1348.1	1300.6	1325.6	1305.6
80°	1153.0	912.9	487.7	545.2	615.3	835.4	1045.5	1088.0	988.0	982.9	972.9
82.5°	402.7	370.2	310.1	362.7	397.7	597.8	790.4	845.4	735.3	732.8	697.8
85°	157.6	150.1	172.6	197.6	237.6	367.7	520.2	547.8	452.7	365.2	360.2
87.5°	32.5	35.0	42.5	45.0	72.5	127.6	187.6	230.1	182.6	155.1	142.6
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)