

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: P955543

Luminaire Tested: **GALN-SB8C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955543
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-SB8C-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50878 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 399.8
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

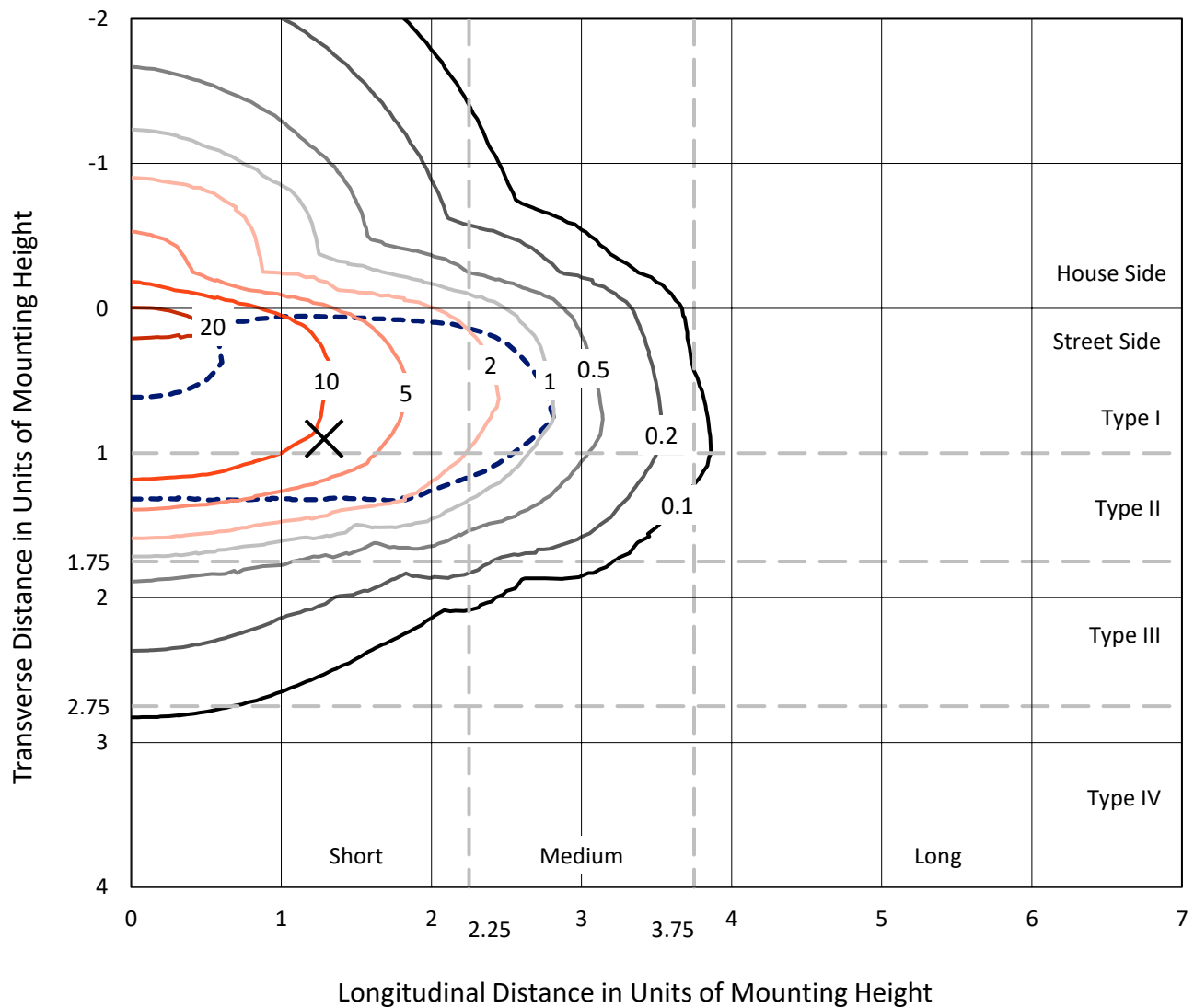


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

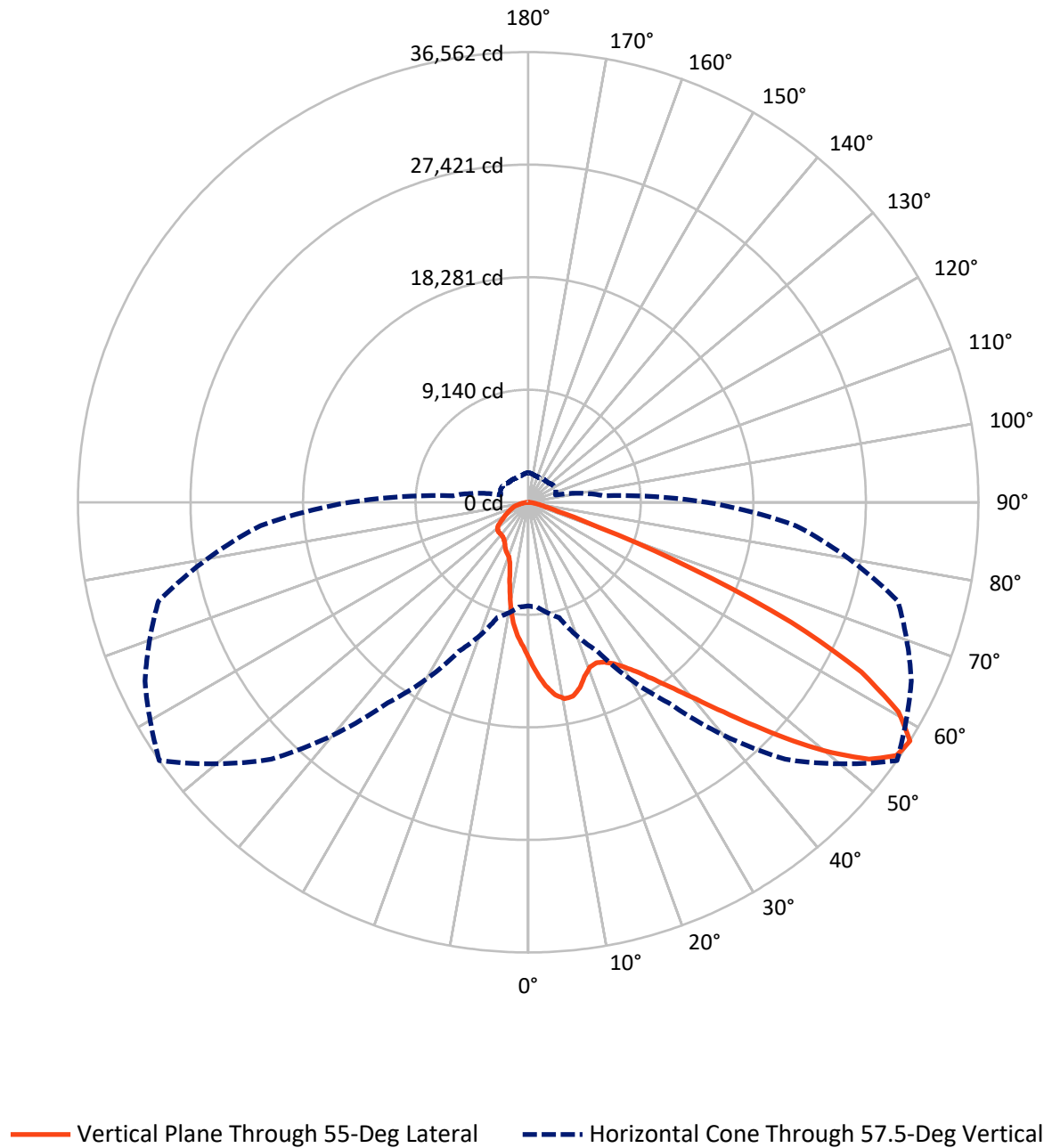


Based on 25 foot mounting height. Maximum calculated value = 24.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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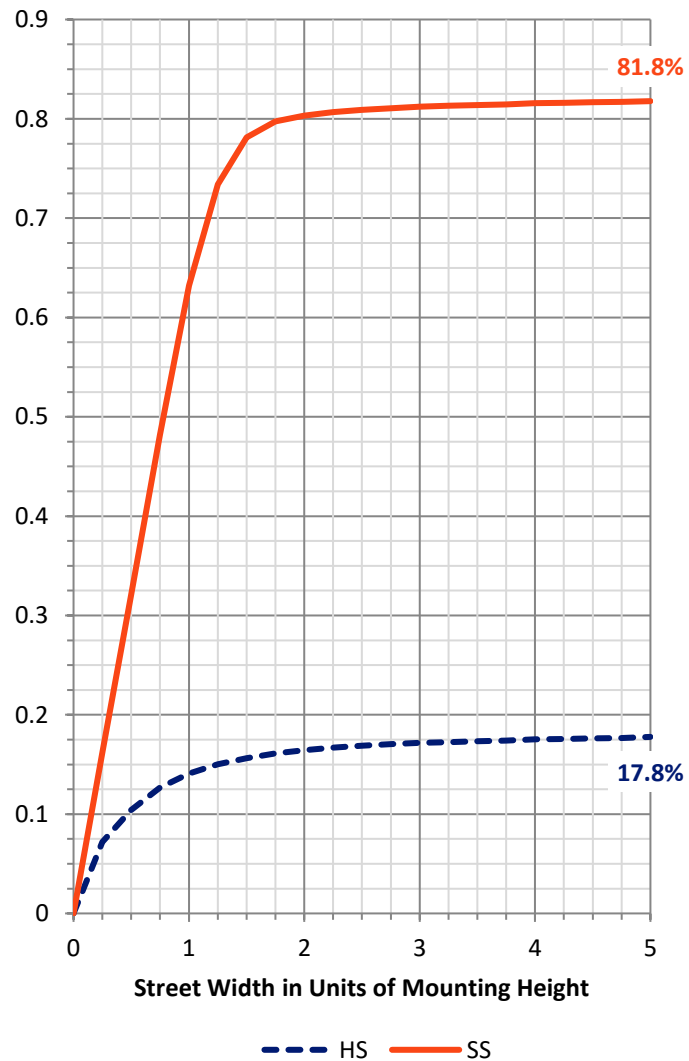
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9206.1	0.0	9206.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41671.9	0.0	41671.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	50878.0	0.0	50878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1183.0	2.3
10°-20°	2985.9	5.9
20°-30°	4764.6	9.4
30°-40°	7543.6	14.8
40°-50°	11546.2	22.7
50°-60°	12367.1	24.3
60°-70°	7780.2	15.3
70°-80°	2300.7	4.5
80°-90°	406.8	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°	50878.0	100.0
0°-180°	50878.0	100.0

Coefficient of Utilization



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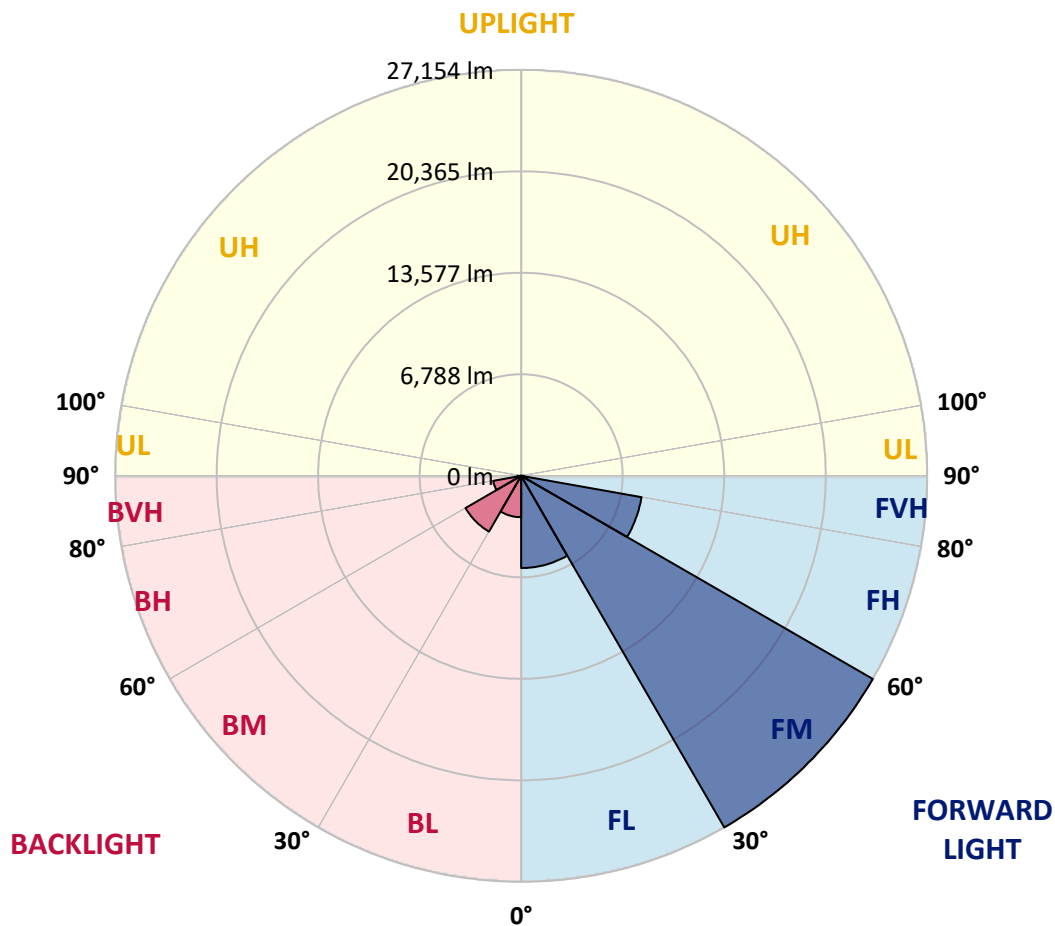
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6166.4	12.1			
FM	(30°-60°)	27154.0	53.4			
FH	(60°-80°)	8179.6	16.1			G4/12000
FVH	(80°-90°)	171.9	0.3			G2/225
BL	(0°-30°)	2767.1	5.4	B4/5000		
BM	(30°-60°)	4302.9	8.5	B3/5000		
BH	(60°-80°)	1901.3	3.7	B3/2500		G3/2500
BVH	(80°-90°)	234.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4
2.5°	14626.3	14615.8	14673.7	14476.4	14342.3	14160.8	13921.4	13616.3	13287.6	12940.4	12790.5
5°	15944.0	15852.0	15912.5	15765.2	15617.9	15344.3	14989.3	14492.2	13884.6	13192.9	12824.6
7.5°	15736.2	15673.1	15828.3	15959.8	16070.3	16036.1	15775.7	15254.9	14471.1	13466.4	12932.5
10°	14060.8	13989.8	14208.1	14663.1	15331.2	15912.5	16228.1	15904.6	15070.8	13766.2	13037.7
12.5°	12582.7	12548.5	12693.1	13061.4	13803.1	14918.3	16170.2	16472.7	15694.2	14121.3	13179.7
15°	11951.4	11909.4	12001.4	12188.2	12661.6	13700.5	15644.2	16861.9	16307.0	14531.6	13405.9
17.5°	11812.0	11764.7	11804.1	11901.5	12206.6	12998.2	14849.9	17053.9	16946.1	14989.3	13595.3
20°	12069.8	12030.3	12035.6	12030.3	12243.4	12872.0	14297.5	16980.3	17503.7	15410.1	13779.4
22.5°	12693.1	12627.4	12630.0	12490.6	12606.3	13092.9	14152.9	16783.0	18000.8	15778.3	13918.8
25°	13708.4	13590.0	13613.7	13258.6	13227.1	13587.4	14379.1	16630.5	18495.3	16072.9	13945.1
27.5°	15097.1	14963.0	14892.0	14363.3	14110.8	14289.6	14839.4	16683.1	18963.4	16328.0	13879.3
30°	16833.0	16669.9	16525.3	15775.7	15318.0	15252.3	15554.8	17030.3	19515.8	16596.3	13766.2
32.5°	18960.8	18771.4	18508.4	17514.2	16869.8	16525.3	16480.6	17648.4	20162.8	16938.2	13708.4
35°	21493.7	21246.4	20872.9	19586.8	18771.4	18066.6	17701.0	18540.0	21049.2	17453.7	13774.1
37.5°	24102.8	23824.0	23482.0	21951.3	20949.2	19910.3	19189.6	19749.9	22230.1	18153.3	13947.7
40°	26509.4	26196.4	25878.1	24515.7	23440.0	22188.0	21012.3	21280.6	23674.1	18989.7	14242.3
42.5°	27929.6	27698.2	27577.2	26840.8	26009.6	24739.3	23279.5	23095.4	25296.9	19952.4	14579.0
45°	27866.5	27771.8	28145.3	28450.4	28253.2	27548.3	25936.0	25102.2	26924.9	20786.1	14889.3
47.5°	26377.9	26441.0	27274.7	28989.6	29744.5	30112.7	28960.7	27072.2	28340.0	21409.5	15028.7
50°	22327.4	22380.0	24310.5	28008.6	30128.5	32203.7	31961.7	28994.9	29436.7	21790.9	14997.2
52.5°	19121.2	19155.4	19983.9	25099.6	28860.7	33255.7	34665.5	30807.0	30238.9	21896.1	14820.9
55°	14402.7	14521.1	15449.5	19692.0	25562.5	32422.0	36312.0	32674.5	30746.5	21906.6	14636.8
57.5°	8413.9	8542.8	9689.5	13366.5	19868.2	29515.6	36561.8	34331.5	31091.1	21822.4	14526.4
60°	4121.5	4176.7	4676.4	7025.2	12251.3	23916.0	34552.4	35133.6	31283.1	21777.7	14521.1
62.5°	2777.4	2769.6	2790.6	3466.5	6036.2	15365.4	30365.2	33729.1	31180.5	21606.7	14468.5
65°	2388.2	2359.3	2280.3	2432.9	3127.3	7027.8	23461.0	29536.7	30399.4	21178.0	14108.2
67.5°	2064.7	2067.3	2069.9	2022.6	2233.0	3243.0	14337.0	23266.4	27595.6	19147.5	12719.4
70°	1709.6	1733.3	1743.8	1743.8	1820.1	2127.8	6120.4	15946.6	21767.2	15012.9	10244.5
72.5°	1557.1	1507.1	1512.3	1486.0	1486.0	1620.2	2464.5	9039.9	13713.6	8445.4	6251.9
75°	1270.4	1301.9	1307.2	1288.8	1228.3	1236.2	1462.4	3792.7	5867.9	3503.4	3090.4
77.5°	1096.8	1096.8	1107.3	1094.1	1046.8	925.8	975.8	1470.3	1996.3	1436.1	1543.9
80°	881.1	878.5	923.2	949.5	875.8	683.8	623.3	812.7	886.4	631.2	802.2
82.5°	428.7	455.0	633.9	723.3	665.4	494.5	381.4	505.0	473.4	278.8	360.3
85°	249.9	236.7	284.1	402.4	381.4	273.5	184.1	263.0	247.2	142.0	144.7
87.5°	78.9	73.6	57.9	136.8	110.5	76.3	50.0	76.3	68.4	31.6	31.6
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°	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4	12748.4
2.5°	12603.7	12293.4	11985.6	11704.2	11533.2	11422.8	11312.3	11188.7	11141.3	11070.3
5°	12477.5	11877.8	11343.9	10883.6	10465.4	10136.6	9805.2	9537.0	9416.0	9497.5
7.5°	12403.8	11535.9	10712.6	9868.4	9055.6	8406.0	7840.5	7443.3	7264.5	7309.2
10°	12338.1	11149.2	9894.7	8561.2	7393.4	6588.5	6009.9	5707.4	5594.3	5618.0
12.5°	12277.6	10715.3	8908.3	7154.0	5912.6	5381.3	5215.6	5218.2	5239.3	5255.1
15°	12267.1	10191.9	7806.3	5923.1	5113.0	5078.8	5257.7	5370.8	5431.3	5449.7
17.5°	12251.3	9565.9	6683.2	5084.1	4918.4	5149.8	5315.5	5389.2	5436.5	5439.2
20°	12188.2	8771.6	5646.9	4684.3	4876.3	5076.2	5178.8	5236.6	5276.1	5289.2
22.5°	11993.5	7887.8	4839.5	4505.5	4708.0	4868.4	4989.4	5055.2	5078.8	5094.6
25°	11643.7	6898.9	4281.9	4334.5	4473.9	4676.4	4773.7	4786.9	4779.0	4802.7
27.5°	11186.1	5839.0	3934.7	4103.0	4281.9	4455.5	4508.1	4500.2	4484.4	4510.7
30°	10633.7	4886.8	3713.8	3842.7	4087.3	4245.1	4292.4	4274.0	4242.4	4271.4
32.5°	10049.8	4108.3	3532.3	3661.2	3926.8	4082.0	4129.3	4110.9	4087.3	4110.9
35°	9505.4	3563.9	3364.0	3540.2	3800.6	3953.1	4013.6	4016.3	4016.3	4045.2
37.5°	9005.7	3245.6	3224.6	3463.9	3713.8	3850.6	3937.3	3942.6	3829.5	3837.4
40°	8542.8	3111.5	3161.4	3413.9	3629.6	3761.1	3766.4	3471.8	3264.0	3258.8
42.5°	8164.0	3085.2	3179.9	3408.7	3569.1	3574.4	3203.5	2974.7	2916.8	2919.5
45°	7808.9	3077.3	3221.9	3408.7	3479.7	3087.8	2837.9	2777.4	2782.7	2803.7
47.5°	7411.8	3045.7	3229.8	3361.3	3221.9	2745.9	2672.2	2645.9	2635.4	2640.7
50°	6977.8	2932.6	3129.9	3266.7	2780.1	2598.6	2506.5	2498.7	2511.8	2519.7
52.5°	6520.2	2748.5	2958.9	3095.7	2577.6	2469.7	2367.1	2385.6	2443.4	2461.8
55°	6220.3	2532.8	2732.7	2753.8	2435.5	2348.7	2261.9	2304.0	2411.9	2446.0
57.5°	6141.4	2304.0	2475.0	2451.3	2254.0	2243.5	2190.9	2227.7	2364.5	2414.5
60°	6117.7	2098.9	2222.5	2204.1	2077.8	2127.8	2114.6	2133.1	2180.4	2196.2
62.5°	5933.6	1935.8	1996.3	1970.0	1920.0	2006.8	2038.4	1998.9	2035.7	2054.2
65°	5465.5	1804.3	1775.4	1756.9	1778.0	1856.9	1920.0	1841.1	1875.3	1927.9
67.5°	4692.2	1625.4	1546.5	1567.6	1633.3	1675.4	1756.9	1667.5	1696.5	1785.9
70°	3795.3	1399.2	1328.2	1388.7	1451.8	1538.6	1551.8	1491.3	1559.7	1659.6
72.5°	2685.4	1170.4	1120.4	1244.1	1265.1	1378.2	1349.3	1320.3	1415.0	1449.2
75°	1862.2	944.2	915.3	1010.0	1086.3	1183.6	1162.5	1196.7	1396.6	1412.4
77.5°	1178.3	733.8	715.4	775.9	881.1	988.9	1023.1	1412.4	2385.6	2480.2
80°	683.8	547.1	526.0	573.4	665.4	765.4	986.3	1733.3	1572.8	1554.4
82.5°	381.4	376.1	349.8	363.0	444.5	552.3	1394.0	1220.4	991.6	1023.1
85°	178.9	220.9	189.4	181.5	249.9	647.0	931.1	697.0	462.9	452.4
87.5°	47.3	42.1	42.1	47.3	105.2	557.6	370.9	297.2	176.2	171.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)