

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: P955900

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955900
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-SB8D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69132 lumens
Efficiency: N/A
Efficacy: 118.2 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): 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

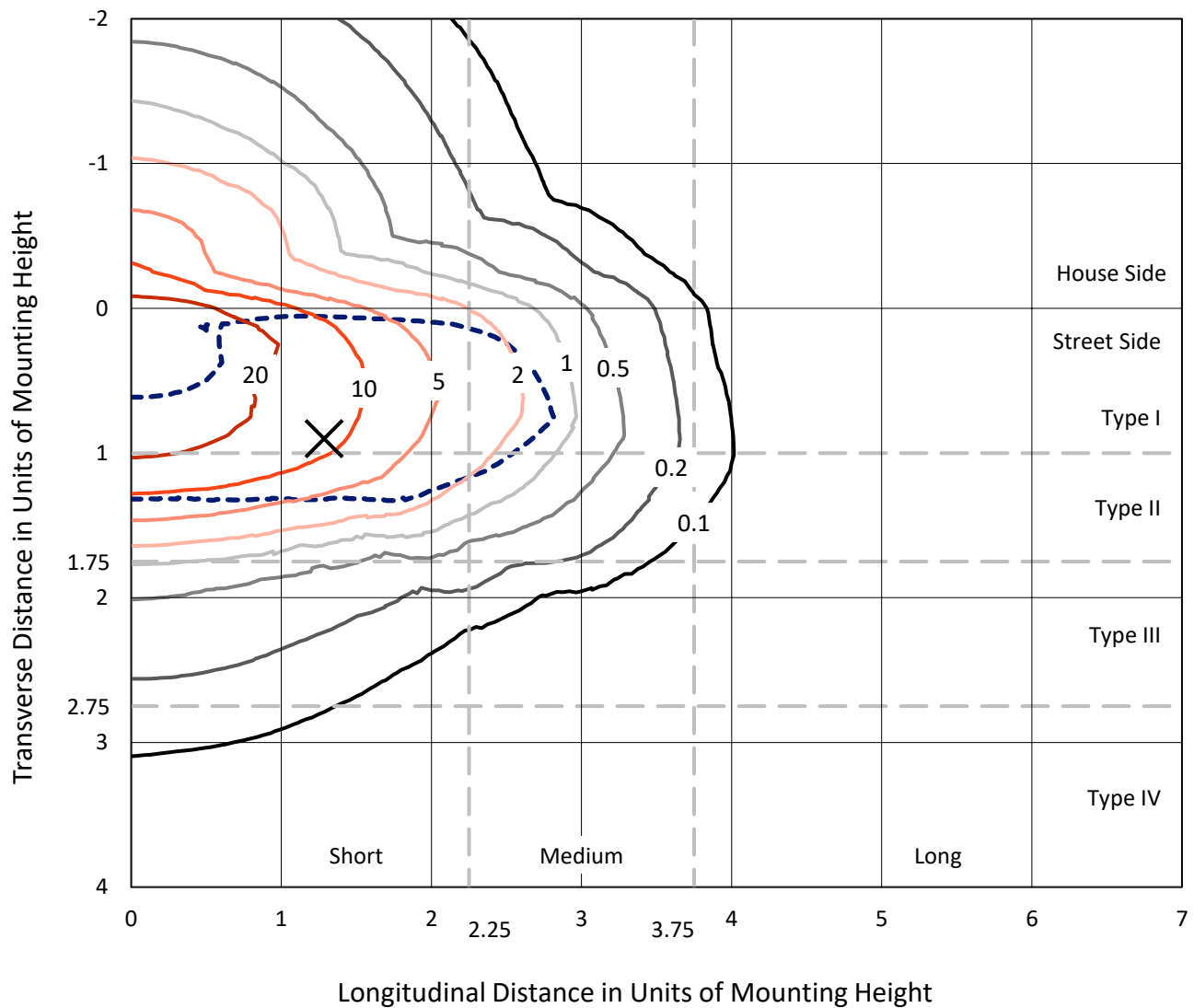


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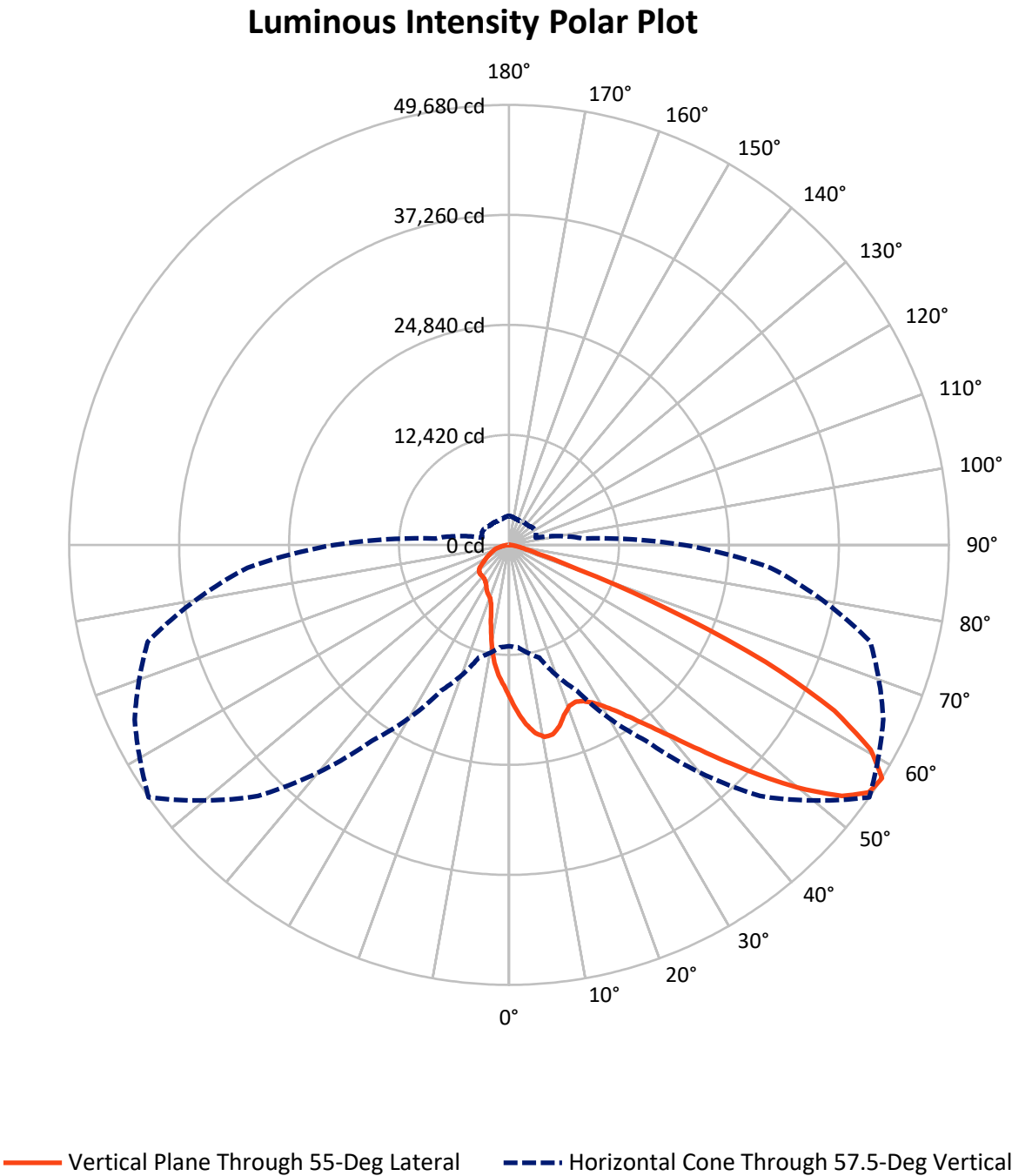
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.5 fc
Type II - Short - N/A

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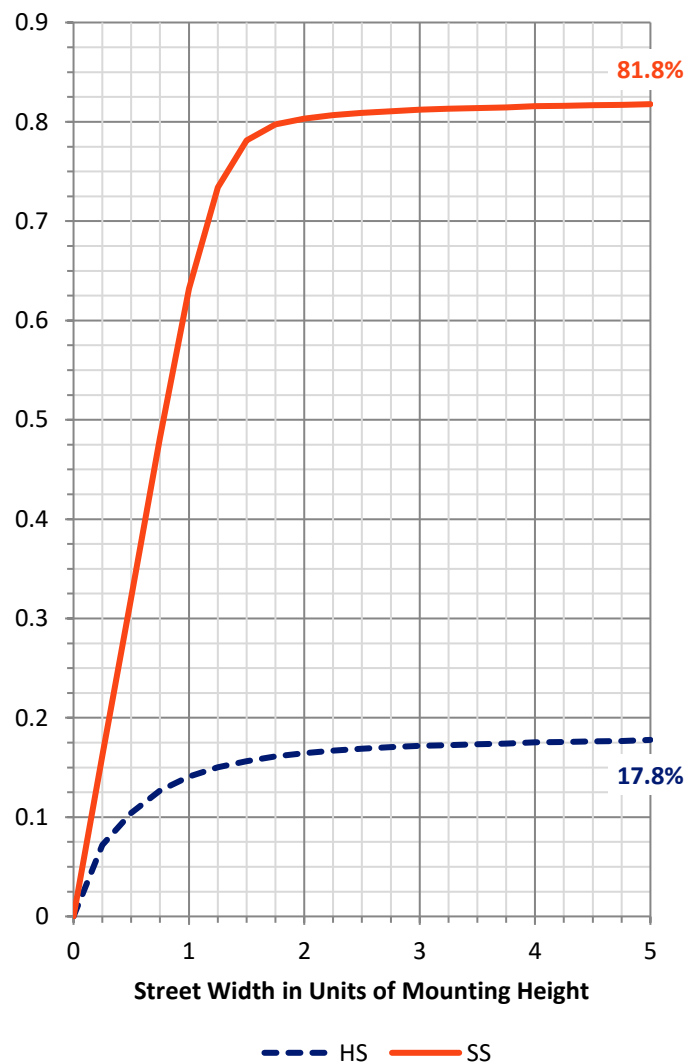
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12509.1	0.0	12509.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	56622.9	0.0	56622.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	69132.0	0.0	69132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1607.4	2.3
10°-20°	4057.2	5.9
20°-30°	6474.1	9.4
30°-40°	10250.0	14.8
40°-50°	15688.7	22.7
50°-60°	16804.1	24.3
60°-70°	10571.5	15.3
70°-80°	3126.2	4.5
80°-90°	552.8	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°	69132.0	100.0
0°-180°	69132.0	100.0

Coefficient of Utilization



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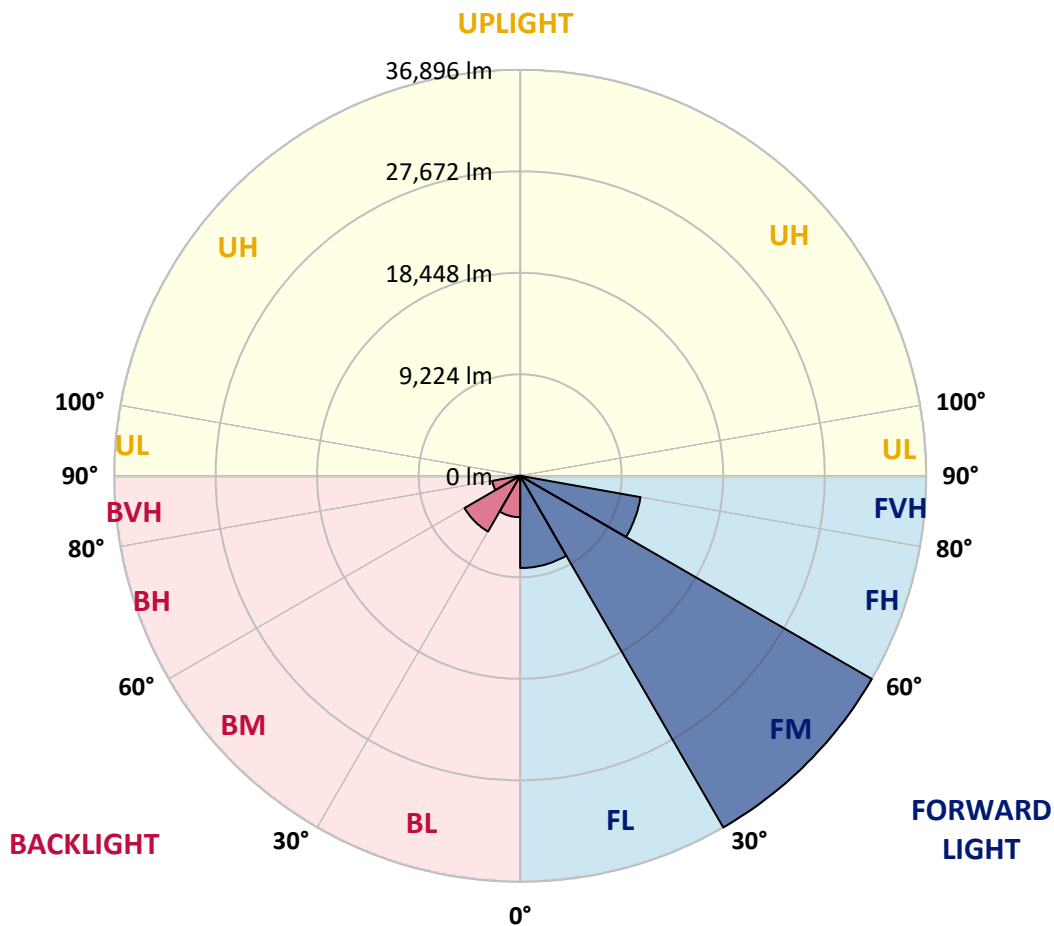
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8378.8	12.1			
FM	(30°-60°)	36896.3	53.4			
FH	(60°-80°)	11114.3	16.1			G4/12000
FVH	(80°-90°)	233.5	0.3			G3/500
BL	(0°-30°)	3759.8	5.4	B4/5000		
BM	(30°-60°)	5846.6	8.5	B4/8500		
BH	(60°-80°)	2583.4	3.7	B4/5000		G4/5000
BVH	(80°-90°)	319.2	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°	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2
2.5°	19873.9	19859.6	19938.3	19670.2	19488.0	19241.4	18916.2	18501.6	18054.9	17583.1	17379.4
5°	21664.4	21539.3	21621.5	21421.4	21221.3	20849.6	20367.1	19691.7	18866.1	17926.2	17425.9
7.5°	21382.1	21296.3	21507.2	21685.9	21836.0	21789.5	21435.7	20728.1	19663.1	18297.9	17572.4
10°	19105.6	19009.1	19305.7	19924.0	20831.7	21621.5	22050.4	21610.8	20477.9	18705.3	17715.4
12.5°	17097.1	17050.6	17247.2	17747.5	18755.3	20270.6	21971.8	22382.7	21324.9	19187.8	17908.3
15°	16239.4	16182.2	16307.3	16561.0	17204.3	18616.0	21257.0	22911.7	22157.6	19745.3	18215.7
17.5°	16050.0	15985.6	16039.2	16171.5	16586.0	17661.7	20177.7	23172.6	23026.0	20367.1	18473.0
20°	16400.2	16346.6	16353.7	16346.6	16636.1	17490.2	19427.2	23072.5	23783.7	20938.9	18723.2
22.5°	17247.2	17157.8	17161.4	16972.0	17129.2	17790.4	19230.6	22804.5	24459.1	21439.3	18912.6
25°	18626.7	18465.9	18498.0	18015.6	17972.7	18462.3	19538.0	22597.2	25131.0	21839.5	18948.3
27.5°	20513.6	20331.4	20234.9	19516.6	19173.5	19416.5	20163.4	22668.6	25767.1	22186.2	18859.0
30°	22872.4	22650.8	22454.2	21435.7	20813.8	20724.5	21135.5	23140.4	26517.6	22550.7	18705.3
32.5°	25763.6	25506.2	25148.9	23798.0	22922.4	22454.2	22393.5	23980.2	27396.8	23015.3	18626.7
35°	29205.1	28869.2	28361.7	26614.1	25506.2	24548.5	24051.7	25191.8	28601.2	23715.8	18716.0
37.5°	32750.4	32371.5	31906.9	29827.0	28465.4	27053.7	26074.5	26835.7	30205.8	24666.4	18951.9
40°	36020.4	35595.1	35162.7	33311.4	31849.8	30148.6	28551.1	28915.7	32167.8	25802.9	19352.2
42.5°	37950.2	37635.7	37471.4	36470.7	35341.4	33615.2	31631.8	31381.6	34372.9	27110.9	19809.6
45°	37864.5	37735.8	38243.3	38657.9	38389.8	37432.0	35241.3	34108.4	36585.0	28243.8	20231.3
47.5°	35841.7	35927.5	37060.4	39390.5	40416.2	40916.5	39351.2	36785.2	38507.8	29090.8	20420.7
50°	30338.0	30409.5	33032.7	38057.5	40937.9	43757.7	43428.9	39397.6	39998.0	29609.0	20377.8
52.5°	25981.6	26028.0	27153.8	34104.8	39215.4	45187.2	47102.8	41860.0	41088.0	29751.9	20138.4
55°	19570.2	19731.0	20992.5	26757.1	34733.8	44054.3	49340.0	44397.4	41777.8	29766.2	19888.2
57.5°	11432.6	11607.7	13165.9	18162.1	26996.5	40105.2	49679.5	46648.9	42246.0	29651.9	19738.1
60°	5600.2	5675.2	6354.2	9545.6	16646.8	32496.6	46949.1	47738.9	42506.8	29591.1	19731.0
62.5°	3773.9	3763.2	3791.8	4710.3	8201.9	20878.2	41259.6	45830.5	42367.5	29358.8	19659.5
65°	3245.0	3205.7	3098.5	3305.8	4249.3	9549.2	31878.3	40133.8	41306.0	28776.3	19169.9
67.5°	2805.4	2809.0	2812.6	2748.3	3034.2	4406.5	19480.8	31613.9	37496.4	26017.3	17282.9
70°	2323.0	2355.1	2369.4	2369.4	2473.1	2891.2	8316.2	21668.0	29576.8	20399.3	13920.0
72.5°	2115.7	2047.8	2054.9	2019.2	2019.2	2201.5	3348.7	12283.2	18633.8	11475.5	8494.9
75°	1726.1	1769.0	1776.2	1751.2	1669.0	1679.7	1987.0	5153.4	7973.2	4760.3	4199.2
77.5°	1490.3	1490.3	1504.6	1486.7	1422.4	1258.0	1325.9	1997.8	2712.5	1951.3	2097.8
80°	1197.2	1193.7	1254.4	1290.1	1190.1	929.2	847.0	1104.3	1204.4	857.7	1090.0
82.5°	582.5	618.3	861.3	982.8	904.2	671.9	518.2	686.2	643.3	378.8	489.6
85°	339.5	321.6	386.0	546.8	518.2	371.7	250.2	357.4	335.9	193.0	196.6
87.5°	107.2	100.1	78.6	185.8	150.1	103.6	67.9	103.6	92.9	42.9	42.9
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°	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2	17322.2
2.5°	17125.7	16704.0	16285.8	15903.4	15671.1	15521.0	15370.9	15203.0	15138.6	15042.1
5°	16954.1	16139.3	15413.8	14788.4	14220.2	13773.4	13323.1	12958.6	12794.2	12905.0
7.5°	16854.1	15674.7	14556.1	13408.9	12304.6	11421.9	10653.5	10113.9	9870.9	9931.6
10°	16764.7	15149.4	13444.7	11632.7	10046.0	8952.4	8166.1	7755.2	7601.5	7633.6
12.5°	16682.5	14559.7	12104.5	9720.8	8033.9	7312.0	7086.9	7090.4	7119.0	7140.5
15°	16668.2	13848.5	10607.1	8048.2	6947.5	6901.0	7144.0	7297.7	7379.9	7404.9
17.5°	16646.8	12997.9	9081.0	6908.2	6683.0	6997.5	7222.7	7322.7	7387.1	7390.6
20°	16561.0	11918.6	7673.0	6364.9	6625.8	6897.4	7036.8	7115.4	7169.1	7186.9
22.5°	16296.6	10717.8	6575.8	6121.9	6397.1	6615.1	6779.5	6868.9	6901.0	6922.5
25°	15821.2	9374.1	5818.2	5889.6	6079.0	6354.2	6486.5	6504.3	6493.6	6525.8
27.5°	15199.4	7933.8	5346.4	5575.1	5818.2	6054.0	6125.5	6114.8	6093.3	6129.1
30°	14448.9	6640.1	5046.2	5221.3	5553.7	5768.1	5832.5	5807.4	5764.5	5803.9
32.5°	13655.5	5582.3	4799.6	4974.7	5335.7	5546.5	5610.9	5585.9	5553.7	5585.9
35°	12915.7	4842.5	4570.9	4810.3	5164.1	5371.4	5453.6	5457.2	5457.2	5496.5
37.5°	12236.7	4410.1	4381.5	4706.7	5046.2	5232.1	5350.0	5357.1	5203.5	5214.2
40°	11607.7	4227.8	4295.7	4638.8	4931.9	5110.5	5117.7	4717.4	4435.1	4427.9
42.5°	11093.1	4192.1	4320.7	4631.7	4849.7	4856.8	4352.9	4042.0	3963.4	3966.9
45°	10610.6	4181.4	4377.9	4631.7	4728.1	4195.6	3856.1	3773.9	3781.1	3809.7
47.5°	10071.0	4138.5	4388.6	4567.3	4377.9	3731.1	3631.0	3595.2	3581.0	3588.1
50°	9481.3	3984.8	4252.8	4438.7	3777.5	3530.9	3405.8	3395.1	3413.0	3423.7
52.5°	8859.5	3734.6	4020.5	4206.4	3502.3	3355.8	3216.4	3241.4	3320.1	3345.1
55°	8452.0	3441.6	3713.2	3741.8	3309.3	3191.4	3073.5	3130.7	3277.2	3323.6
57.5°	8344.8	3130.7	3363.0	3330.8	3062.8	3048.5	2977.0	3027.0	3212.9	3280.8
60°	8312.7	2851.9	3019.9	2994.8	2823.3	2891.2	2873.3	2898.4	2962.7	2984.1
62.5°	8062.5	2630.3	2712.5	2676.8	2608.9	2726.8	2769.7	2716.1	2766.1	2791.1
65°	7426.4	2451.6	2412.3	2387.3	2415.9	2523.1	2608.9	2501.7	2548.1	2619.6
67.5°	6375.7	2208.6	2101.4	2130.0	2219.3	2276.5	2387.3	2265.8	2305.1	2426.6
70°	5157.0	1901.3	1804.8	1887.0	1972.7	2090.7	2108.5	2026.3	2119.3	2255.1
72.5°	3648.9	1590.3	1522.4	1690.4	1719.0	1872.7	1833.4	1794.1	1922.7	1969.2
75°	2530.3	1283.0	1243.7	1372.3	1476.0	1608.2	1579.6	1626.1	1897.7	1919.1
77.5°	1601.1	997.1	972.1	1054.3	1197.2	1343.8	1390.2	1919.1	3241.4	3370.1
80°	929.2	743.4	714.8	779.1	904.2	1040.0	1340.2	2355.1	2137.1	2112.1
82.5°	518.2	511.1	475.3	493.2	604.0	750.5	1894.1	1658.2	1347.3	1390.2
85°	243.0	300.2	257.3	246.6	339.5	879.2	1265.1	947.1	629.0	614.7
87.5°	64.3	57.2	57.2	64.3	143.0	757.6	503.9	403.8	239.4	232.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)