

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: P956619

Luminaire Tested: **GALN-SB9B-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41409 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - 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

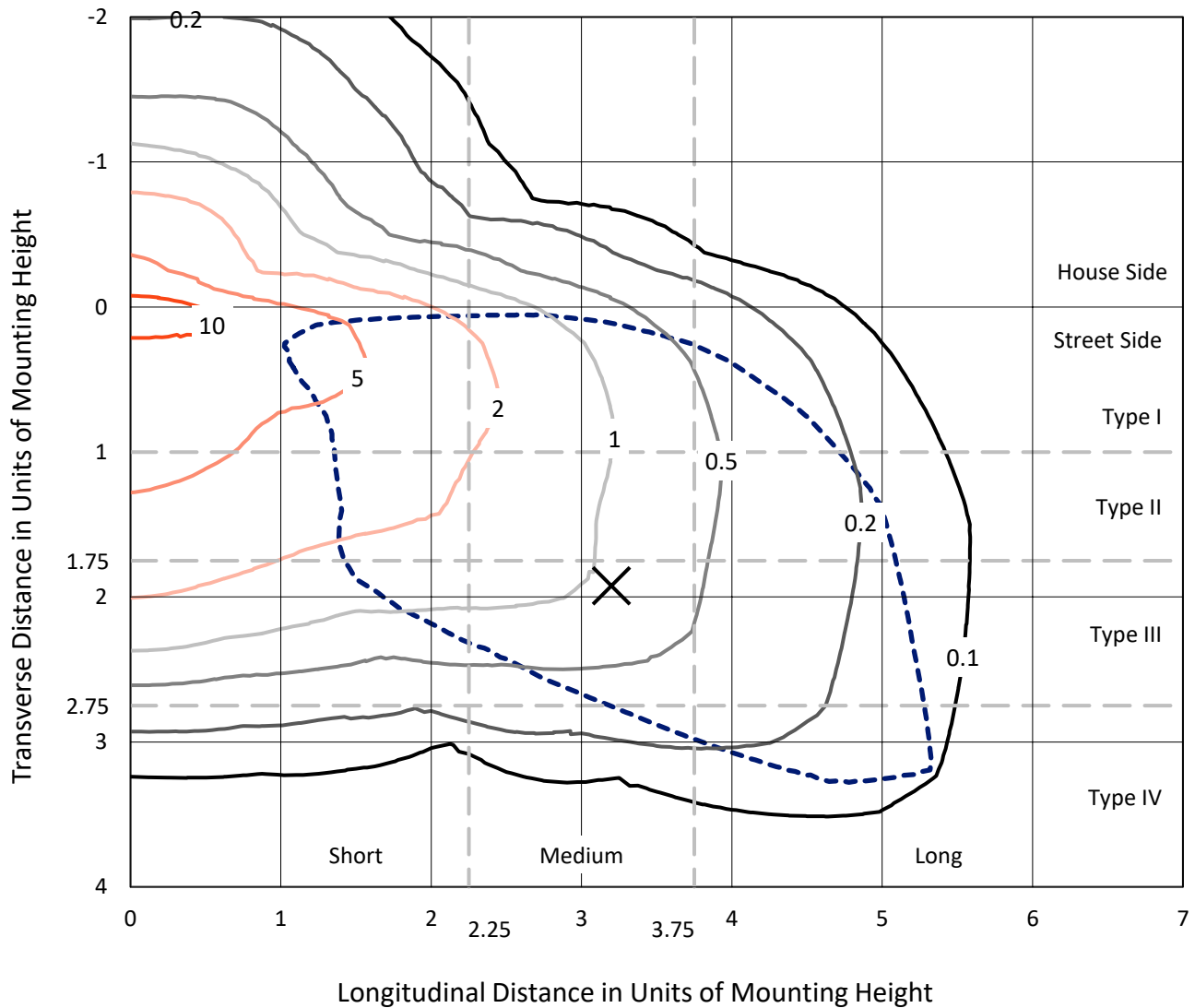


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Iso-Footcandle Lines of Horizontal Illumination

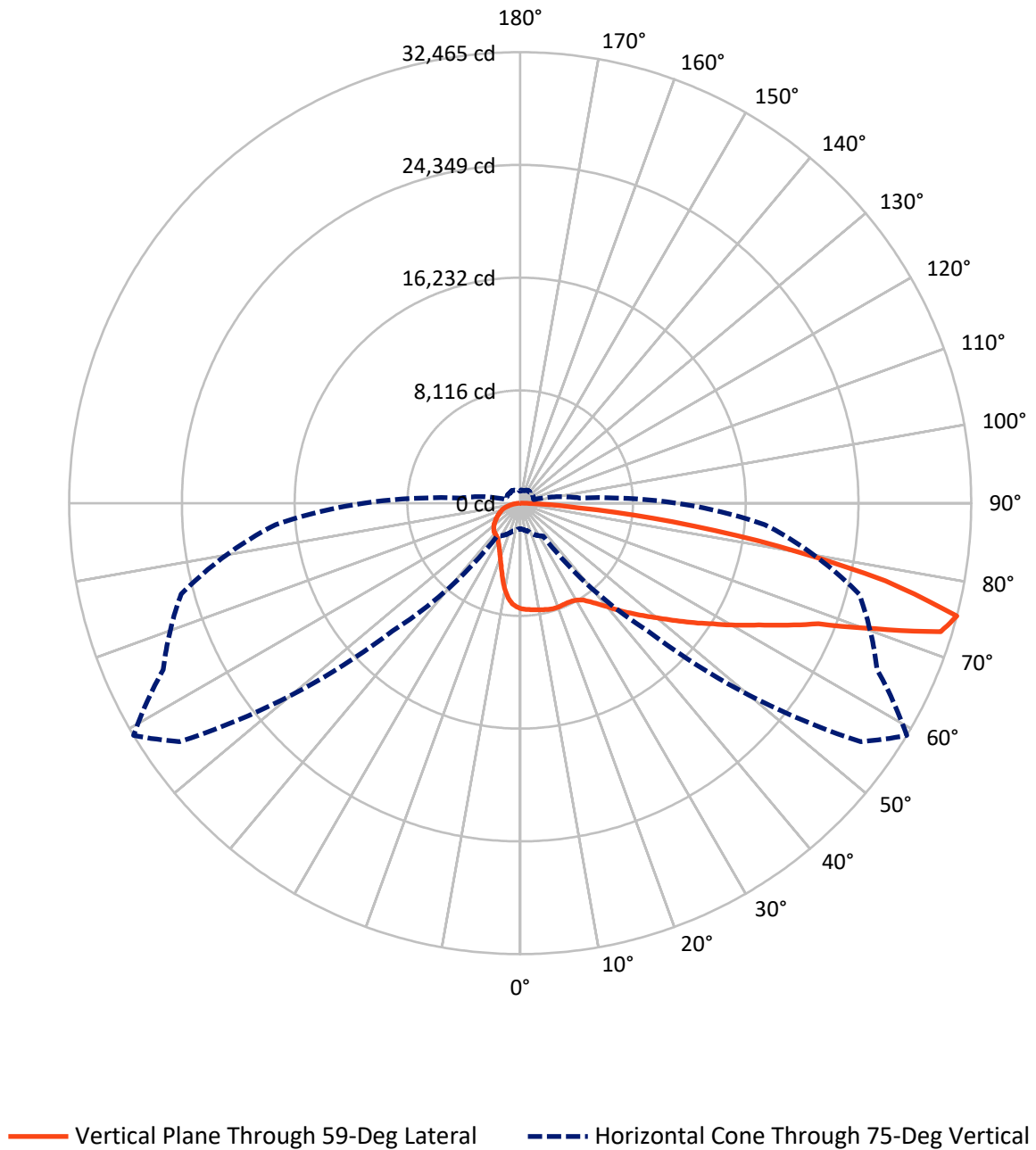
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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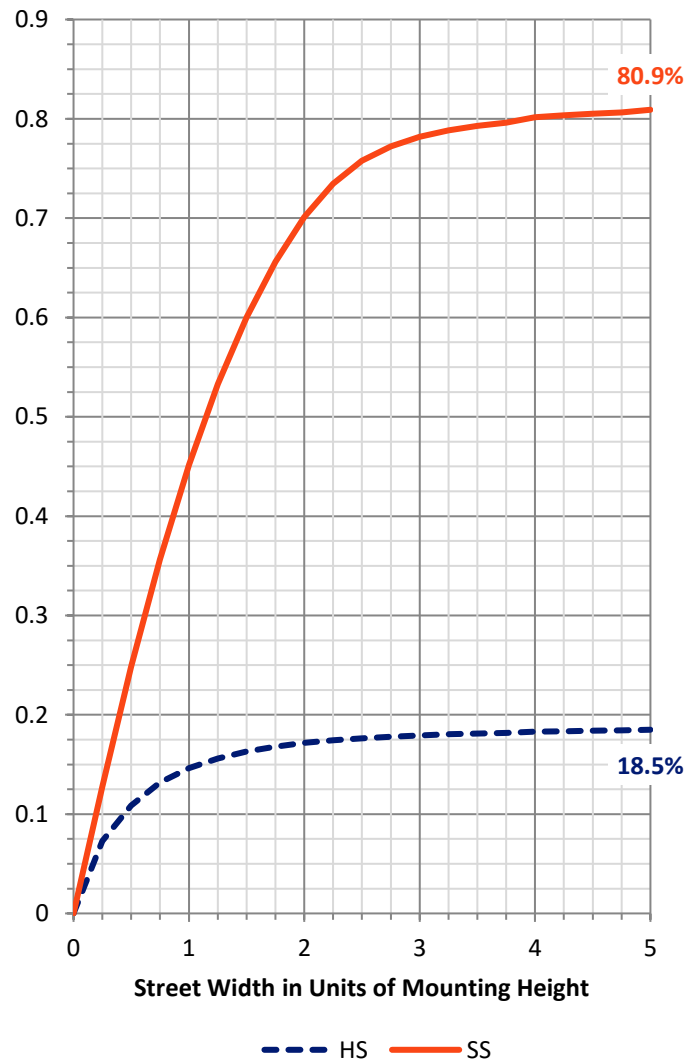
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7766.5	0.0	7766.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33642.5	0.0	33642.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	41409.0	0.0	41409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.5	1.6
10°-20°	1742.0	4.2
20°-30°	2645.9	6.4
30°-40°	3933.1	9.5
40°-50°	5849.2	14.1
50°-60°	7939.6	19.2
60°-70°	9693.0	23.4
70°-80°	7606.9	18.4
80°-90°	1317.7	3.2
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°	41409.0	100.0
0°-180°	41409.0	100.0

Coefficient of Utilization



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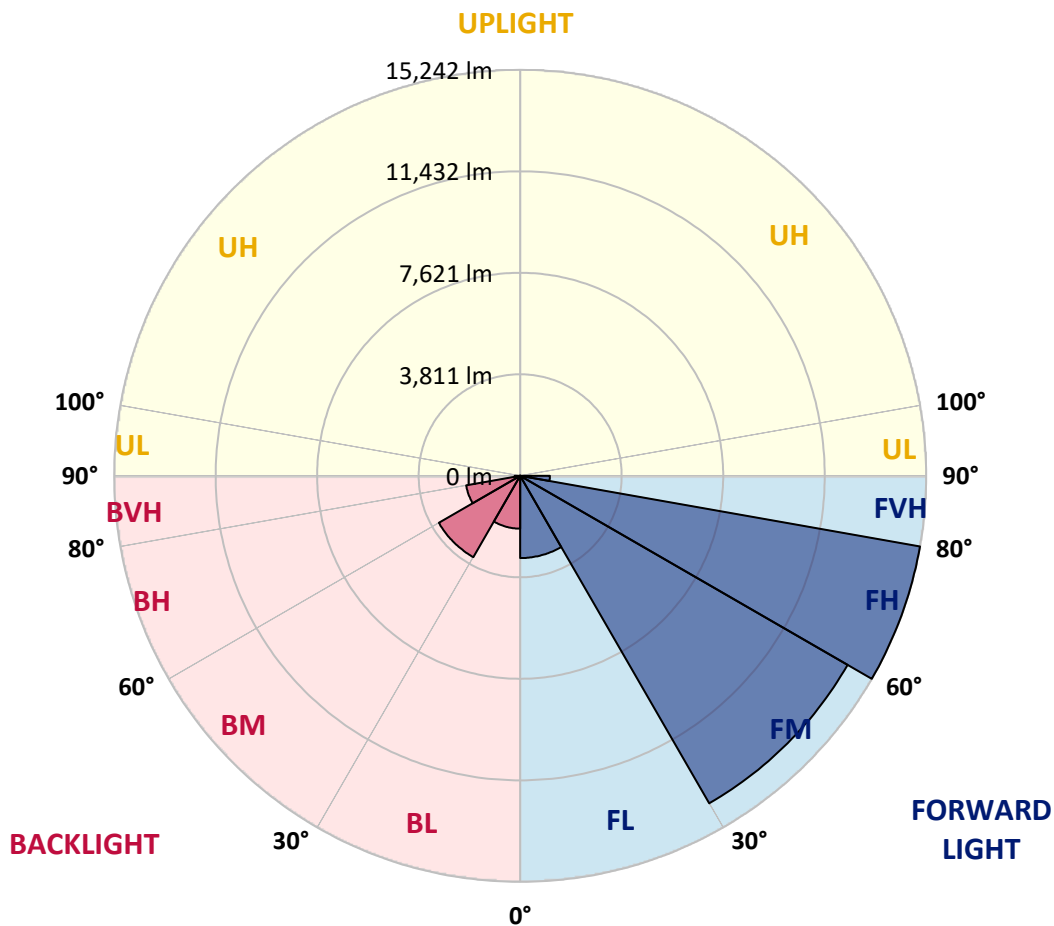
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3087.5	7.5			
FM	(30°-60°)	14196.7	34.3			
FH	(60°-80°)	15242.2	36.8			G5
FVH	(80°-90°)	1116.0	2.7			G5
BL	(0°-30°)	1981.9	4.8	B3/2500		
BM	(30°-60°)	3525.2	8.5	B3/5000		
BH	(60°-80°)	2057.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	201.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5
2.5°	7665.1	7638.4	7665.1	7654.0	7649.5	7640.6	7642.9	7658.4	7649.5	7660.7	7622.8
5°	7613.9	7598.3	7625.0	7618.4	7647.3	7651.8	7680.7	7698.5	7709.7	7711.9	7683.0
7.5°	7529.2	7513.7	7551.5	7582.7	7645.1	7662.9	7723.0	7752.0	7767.6	7794.3	7752.0
10°	7219.6	7212.9	7306.5	7424.6	7571.6	7662.9	7754.2	7803.2	7827.7	7899.0	7850.0
12.5°	6671.6	6680.5	6803.1	7030.3	7324.3	7618.4	7789.9	7861.2	7899.0	7988.1	7965.9
15°	6148.1	6145.9	6279.6	6522.4	6934.5	7422.3	7807.7	7930.2	7994.8	8126.2	8108.4
17.5°	5845.2	5836.3	5929.8	6114.7	6497.9	7121.6	7763.1	7968.1	8106.2	8271.0	8255.4
20°	5789.5	5771.7	5820.7	5912.0	6183.8	6791.9	7647.3	7968.1	8195.3	8409.1	8400.2
22.5°	5992.2	5963.3	5943.2	5932.1	6052.4	6520.1	7515.9	7941.4	8326.7	8607.4	8591.8
25°	6399.9	6355.3	6252.8	6152.6	6117.0	6397.6	7400.0	7934.7	8522.8	8874.7	8816.8
27.5°	7059.2	7003.5	6796.4	6555.8	6339.7	6460.0	7348.8	7974.8	8738.8	9157.6	9041.8
30°	7876.8	7816.6	7556.0	7186.2	6798.6	6691.7	7413.4	8092.8	9015.0	9534.1	9306.9
32.5°	8609.6	8542.8	8320.0	7943.6	7420.1	7092.6	7618.4	8317.8	9449.4	10057.6	9705.6
35°	9260.1	9182.1	8981.6	8634.1	8181.9	7656.2	7988.1	8716.6	10066.5	10908.5	10246.9
37.5°	9897.2	9805.8	9587.5	9220.0	8903.7	8406.9	8498.2	9228.9	10886.2	11942.1	10964.2
40°	10610.0	10478.6	10213.5	9850.4	9543.0	9286.8	9168.8	9857.1	11719.3	13096.0	11859.7
42.5°	11300.6	11175.8	10859.5	10549.9	10164.5	10091.0	9946.2	10592.2	12630.4	14363.5	12768.5
45°	12044.6	11895.3	11512.2	11120.1	10877.3	10625.6	10699.1	11327.3	13523.7	15655.5	13721.9
47.5°	12741.8	12574.7	12122.5	11685.9	11552.3	11075.6	11389.7	12135.9	14452.6	16965.3	14666.4
50°	13118.3	12953.4	12577.0	12182.7	12078.0	11630.2	12138.1	13024.7	15426.0	18270.7	15573.1
52.5°	13432.4	13254.1	12761.9	12543.5	12512.4	12233.9	13060.3	14040.5	16399.5	19424.6	16448.5
55°	13766.5	13568.2	12940.1	12744.0	12886.6	12911.1	14154.1	15192.1	17428.6	20549.5	17274.9
57.5°	14151.9	13900.1	13111.6	12913.3	13251.9	13704.1	15410.5	16386.1	18440.0	21592.0	18010.0
60°	14515.0	14261.0	13441.3	13182.9	13646.2	14624.1	16851.7	17831.8	19585.0	22520.9	18705.1
62.5°	14586.2	14376.9	13704.1	13701.9	14180.8	15697.8	18558.0	19290.9	20585.1	23438.7	19328.8
65°	13352.2	13220.7	12822.0	13681.8	14947.1	17243.8	20458.2	21157.6	21857.1	24240.6	19876.8
67.5°	10162.3	10180.1	10151.1	11810.7	14327.8	19464.7	23209.2	23155.8	23427.5	25140.6	20507.2
70°	4646.7	4751.4	5433.1	8153.0	11478.8	19720.8	27758.0	27065.2	25399.0	26305.6	21052.9
72.5°	2510.5	2590.7	2869.1	3949.5	6901.1	17533.3	31157.3	31649.6	28020.8	27089.7	20453.7
75°	1842.2	1886.8	2080.6	2510.5	2898.1	13031.4	29938.8	32464.9	28348.3	25260.8	17662.5
77.5°	1378.9	1398.9	1557.1	1989.2	1483.6	6869.9	23922.1	26887.0	24267.3	20754.4	13047.0
80°	1000.2	1022.5	1140.5	1492.5	1040.3	2512.7	16426.2	18872.1	16620.0	13229.6	6502.3
82.5°	690.6	699.5	750.7	1015.8	726.2	975.7	9320.2	11066.7	9277.9	4642.3	1755.3
85°	416.6	427.7	450.0	592.5	412.1	463.3	4023.0	4161.1	2773.3	1109.3	545.8
87.5°	171.5	182.7	200.5	249.5	162.6	129.2	663.8	833.1	519.0	325.2	169.3
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°	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5	7600.5
2.5°	7611.7	7596.1	7553.8	7495.8	7442.4	7375.5	7346.6	7322.1	7299.8	7257.5	7237.4
5°	7658.4	7616.1	7502.5	7355.5	7188.4	7005.8	6827.6	6705.0	6600.3	6522.4	6457.8
7.5°	7729.7	7649.5	7442.4	7141.6	6758.5	6366.4	6012.3	5760.5	5571.2	5502.1	5381.9
10°	7803.2	7707.5	7346.6	6816.4	6154.8	5551.1	5081.1	4822.7	4671.3	4622.2	4546.5
12.5°	7890.1	7749.8	7197.3	6364.2	5479.9	4818.3	4408.4	4256.9	4179.0	4152.2	4158.9
15°	8017.1	7785.4	6972.3	5798.4	4836.1	4283.7	4018.6	3913.9	3873.8	3871.5	3880.5
17.5°	8112.9	7792.1	6622.6	5192.5	4341.6	3960.7	3742.3	3702.3	3729.0	3769.1	3784.7
20°	8219.8	7732.0	6163.7	4640.1	3994.1	3677.7	3586.4	3613.1	3677.7	3735.7	3755.7
22.5°	8295.5	7622.8	5609.1	4210.1	3693.3	3515.1	3510.7	3566.4	3602.0	3631.0	3646.6
25°	8362.4	7437.9	5021.0	3849.3	3446.1	3417.1	3466.1	3448.3	3423.8	3448.3	3463.9
27.5°	8411.4	7146.1	4495.3	3533.0	3272.3	3350.3	3321.3	3281.2	3279.0	3292.4	3314.7
30°	8395.8	6756.3	4063.1	3232.2	3149.8	3225.5	3156.5	3149.8	3143.1	3149.8	3174.3
32.5°	8395.8	6313.0	3731.2	3025.1	3071.8	3042.9	3036.2	3020.6	2993.9	2991.7	3020.6
35°	8442.6	5869.7	3446.1	2913.7	3007.2	2938.2	2942.6	2904.8	2849.1	2822.4	2849.1
37.5°	8538.3	5513.3	3163.2	2860.2	2893.6	2891.4	2873.6	2809.0	2711.0	2626.3	2655.3
40°	8770.0	5408.6	2969.4	2835.7	2840.2	2866.9	2820.1	2695.4	2472.6	2334.5	2352.3
42.5°	9133.1	5584.6	2927.1	2775.6	2804.5	2831.3	2739.9	2450.3	2292.2	2209.8	2209.8
45°	9594.2	5892.0	3018.4	2688.7	2719.9	2766.7	2494.9	2356.8	2285.5	2287.7	2298.9
47.5°	10177.8	6215.0	3187.7	2613.0	2597.4	2624.1	2332.3	2247.6	2149.6	2174.1	2236.5
50°	10852.8	6542.4	3348.1	2510.5	2461.5	2374.6	2227.6	2147.4	2022.6	1964.7	1980.3
52.5°	11583.5	6858.7	3412.7	2385.7	2314.5	2214.2	2156.3	2058.3	1906.8	1811.0	1808.8
55°	12276.2	7146.1	3341.4	2236.5	2167.4	2089.5	2080.6	2020.4	1857.8	1724.2	1724.2
57.5°	12931.1	7386.7	3163.2	2085.0	2018.2	1971.4	2031.6	2002.6	1797.7	1626.1	1617.2
60°	13485.8	7551.5	2904.8	1931.3	1884.5	1860.0	1951.4	1942.5	1713.0	1521.4	1514.8
62.5°	13926.9	7616.1	2619.6	1784.3	1773.2	1728.6	1840.0	1840.0	1606.1	1419.0	1412.3
65°	14272.2	7553.8	2330.1	1639.5	1661.8	1595.0	1704.1	1690.7	1492.5	1327.6	1318.7
67.5°	14577.3	7348.8	2009.3	1496.9	1548.2	1463.5	1561.5	1530.4	1367.7	1236.3	1227.4
70°	14713.2	6872.1	1644.0	1354.4	1416.7	1334.3	1419.0	1361.1	1227.4	1138.3	1120.5
72.5°	13621.7	5711.5	1294.2	1205.1	1258.6	1191.8	1265.3	1198.4	1075.9	1035.8	1002.4
75°	11269.4	4285.9	995.7	1042.5	1082.6	1031.4	1080.4	1031.4	920.0	949.0	866.5
77.5°	8184.2	2893.6	761.8	871.0	888.8	862.1	904.4	848.7	748.5	741.8	708.4
80°	4069.8	1695.2	597.0	688.3	681.6	663.8	712.8	686.1	601.4	637.1	630.4
82.5°	1178.4	726.2	434.4	483.4	470.0	474.5	510.1	523.5	784.1	777.4	795.2
85°	369.8	285.1	260.6	269.5	256.2	262.9	300.7	597.0	552.4	323.0	349.7
87.5°	95.8	98.0	64.6	69.1	71.3	84.6	95.8	363.1	173.8	113.6	120.3
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)