

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: P941114

Luminaire Tested: **GALN-SB4C-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21917 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 200.7
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

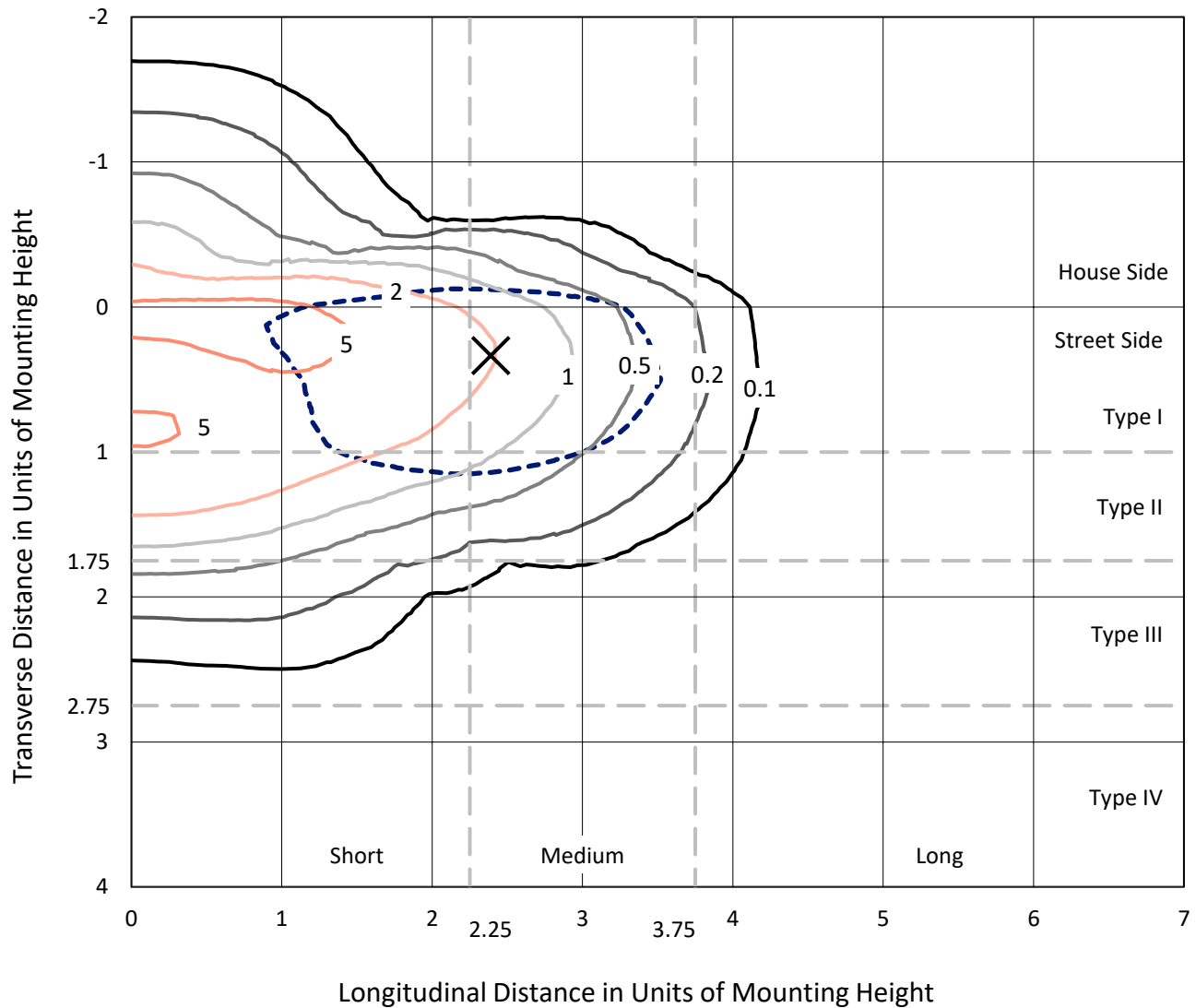


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

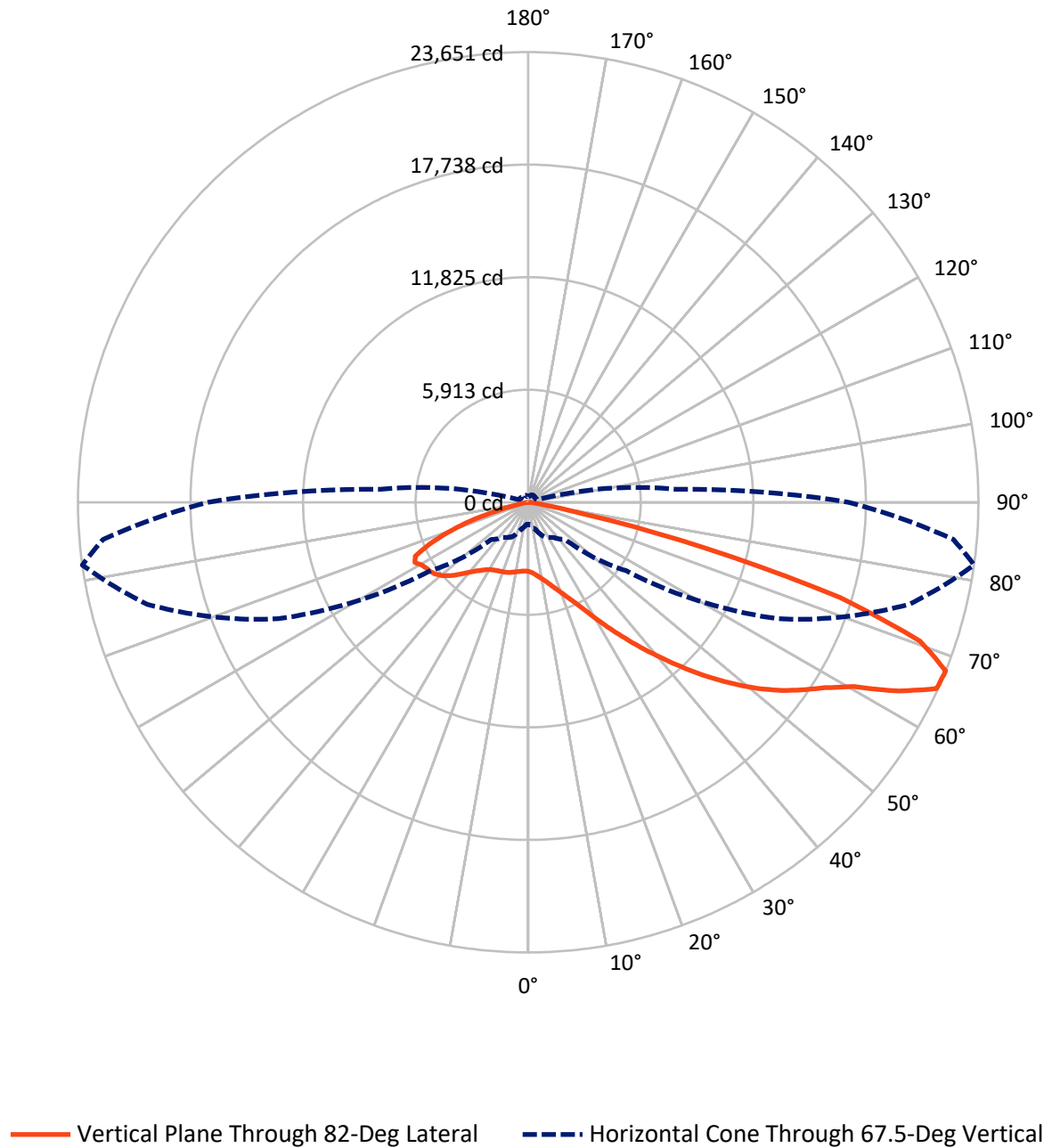


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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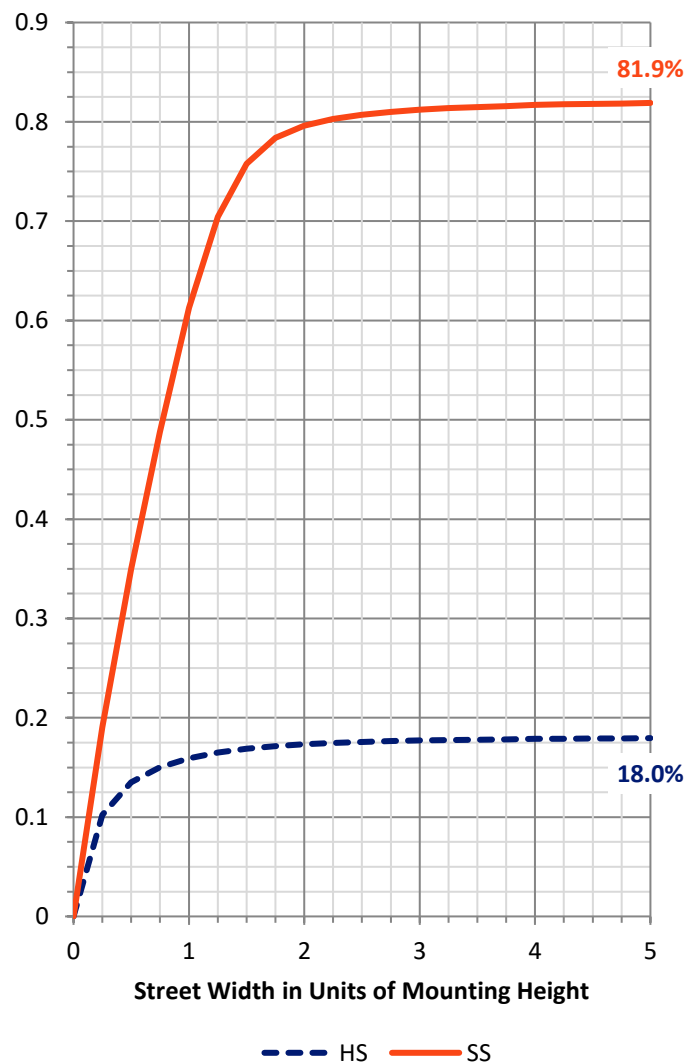
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3970.1	0.0	3970.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17946.9	0.0	17946.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	21917.0	0.0	21917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	1.5
10°-20°	840.6	3.8
20°-30°	1346.4	6.1
30°-40°	2380.8	10.9
40°-50°	4171.5	19.0
50°-60°	5563.5	25.4
60°-70°	5179.4	23.6
70°-80°	1987.8	9.1
80°-90°	123.5	0.6
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°	21917.0	100.0
0°-180°	21917.0	100.0

Coefficient of Utilization



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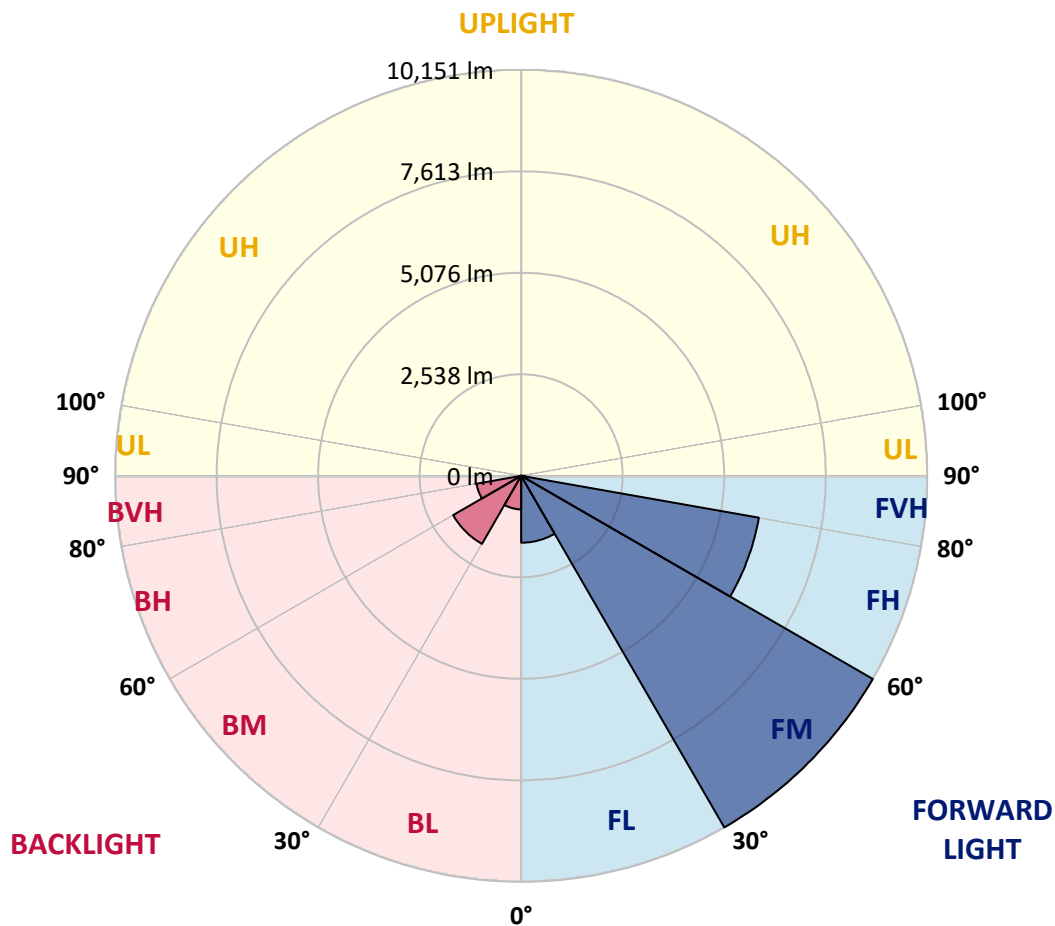
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1672.0	7.6			
FM	(30°-60°)	10151.1	46.3			
FH	(60°-80°)	6034.1	27.5			G3/7500
FVH	(80°-90°)	89.8	0.4			G1/100
BL	(0°-30°)	838.5	3.8	B2/1000		
BM	(30°-60°)	1964.8	9.0	B2/2500		
BH	(60°-80°)	1133.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	33.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9
2.5°	3837.6	3859.7	3847.1	3840.8	3829.7	3813.9	3801.3	3761.9	3720.8	3694.0	3684.6
5°	3914.9	3937.0	3935.5	3941.8	3949.7	3954.4	3951.2	3907.0	3848.7	3802.9	3776.1
7.5°	3848.7	3873.9	3894.4	3926.0	3981.2	4039.6	4068.0	4058.5	3998.6	3935.5	3902.3
10°	3660.9	3687.7	3736.6	3810.8	3927.6	4053.8	4159.5	4208.4	4170.6	4101.1	4055.4
12.5°	3316.9	3343.7	3440.0	3600.9	3796.6	4015.9	4217.9	4348.9	4358.3	4288.9	4235.3
15°	2930.3	2957.1	3059.7	3261.7	3559.9	3911.8	4249.5	4497.2	4580.8	4520.9	4456.2
17.5°	2690.4	2714.1	2791.4	2954.0	3264.8	3703.5	4238.4	4655.0	4845.9	4798.6	4721.3
20°	2617.8	2638.4	2674.7	2788.3	3047.1	3487.3	4165.8	4803.3	5131.6	5104.7	5017.9
22.5°	2695.2	2714.1	2725.2	2775.6	2938.2	3345.3	4074.3	4954.8	5462.9	5466.1	5360.4
25°	2873.5	2892.4	2879.8	2911.4	2982.4	3301.1	4039.6	5133.1	5879.5	5914.2	5794.3
27.5°	3167.0	3168.6	3138.6	3137.0	3148.0	3367.4	4075.9	5324.1	6405.0	6469.7	6321.3
30°	3755.6	3731.9	3616.7	3492.0	3435.2	3566.2	4176.9	5549.7	7025.1	7140.3	6954.1
32.5°	4662.9	4628.2	4416.7	4118.5	3818.7	3886.5	4358.3	5806.9	7700.5	7908.8	7681.5
35°	5647.5	5638.1	5417.2	4973.8	4449.9	4342.6	4653.4	6144.6	8437.4	8768.8	8498.9
37.5°	6562.8	6558.0	6431.8	5909.5	5272.0	4978.5	5126.8	6586.4	9226.4	9706.1	9387.3
40°	7399.1	7413.3	7287.1	6820.0	6177.7	5794.3	5770.6	7132.4	10103.7	10727.0	10348.3
42.5°	8121.8	8137.6	8009.8	7664.2	7072.5	6696.9	6561.2	7801.5	10960.6	11823.7	11375.6
45°	8612.6	8710.4	8691.4	8415.3	7990.8	7601.1	7511.1	8641.0	11937.3	12986.7	12461.2
47.5°	8751.4	8841.4	8983.4	9021.2	8762.5	8379.0	8486.3	9652.4	12925.1	14151.2	13553.2
50°	8409.0	8492.6	8787.7	9180.6	9360.5	9242.2	9434.7	10736.5	13936.6	15312.6	14624.6
52.5°	7733.6	7818.8	8191.2	8813.0	9546.7	9919.1	10386.2	11804.8	14916.5	16412.4	15639.2
55°	6756.9	6846.8	7324.9	8028.7	9191.7	10198.4	11179.9	12871.5	15814.4	17401.8	16554.5
57.5°	5428.2	5494.5	5991.5	6976.2	8298.5	9920.7	11765.3	14036.0	16660.2	18373.9	17461.8
60°	3537.8	3596.2	4173.7	5272.0	6818.4	8992.8	11882.1	15334.7	17783.7	19637.8	18684.7
62.5°	2352.8	2392.2	2734.6	3541.0	4801.8	7211.3	11198.8	16371.4	19431.1	21837.5	20781.8
65°	1614.3	1653.7	1996.1	2557.9	3102.3	4770.2	9234.3	16234.1	20923.9	23584.3	22336.1
67.5°	1151.9	1185.1	1475.4	2005.6	2245.4	2770.9	6259.8	14479.4	20709.3	23650.6	22419.8
70°	825.3	844.2	1084.1	1562.2	1784.7	1664.8	3481.0	11074.2	18132.4	21839.1	20712.4
72.5°	577.5	583.8	752.7	1189.8	1437.5	1215.0	1656.9	7383.3	13714.1	17141.5	16057.4
75°	391.3	399.2	506.5	872.6	1153.5	927.8	877.4	3959.1	8050.8	9488.3	8505.2
77.5°	239.9	243.0	326.6	596.5	863.1	706.9	564.9	1677.4	3114.9	3058.1	2606.8
80°	135.7	135.7	208.3	370.8	588.6	456.0	396.1	713.2	986.2	866.3	763.7
82.5°	75.7	77.3	151.5	230.4	389.8	269.8	217.8	329.8	426.1	377.1	328.2
85°	31.6	34.7	93.1	108.9	186.2	134.1	88.4	138.9	157.8	140.4	102.6
87.5°	3.2	4.7	28.4	20.5	22.1	26.8	12.6	26.8	22.1	22.1	15.8
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°	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9	3630.9
2.5°	3654.6	3630.9	3570.9	3501.5	3410.0	3365.8	3305.8	3264.8	3230.1	3233.3	3201.7
5°	3725.6	3665.6	3531.5	3364.2	3155.9	3007.6	2849.8	2740.9	2652.6	2633.6	2591.0
7.5°	3823.4	3728.7	3493.6	3192.2	2840.3	2573.7	2335.4	2182.3	2073.5	2038.7	2004.0
10°	3949.7	3812.4	3444.7	2976.0	2469.5	2130.3	1874.6	1754.7	1680.5	1655.3	1636.4
12.5°	4096.4	3908.6	3380.0	2712.5	2087.7	1761.0	1598.5	1538.5	1514.8	1507.0	1502.2
15°	4281.0	4028.6	3282.2	2400.1	1764.2	1535.4	1465.9	1458.0	1461.2	1458.0	1456.5
17.5°	4500.4	4159.5	3122.8	2078.2	1546.4	1420.2	1394.9	1401.2	1409.1	1407.5	1404.4
20°	4740.2	4288.9	2919.2	1792.6	1398.1	1338.1	1323.9	1330.2	1336.5	1333.4	1331.8
22.5°	5013.2	4427.8	2693.6	1570.1	1298.7	1262.4	1246.6	1248.2	1248.2	1241.9	1238.7
25°	5339.8	4580.8	2456.9	1412.3	1222.9	1194.5	1175.6	1169.3	1159.8	1140.9	1137.7
27.5°	5729.6	4743.4	2229.7	1301.8	1163.0	1136.1	1114.0	1098.3	1074.6	1043.0	1039.9
30°	6168.3	4940.6	2037.2	1232.4	1115.6	1088.8	1063.6	1039.9	1005.2	965.7	962.6
32.5°	6684.3	5152.1	1896.7	1186.6	1073.0	1044.6	1014.6	986.2	948.4	908.9	910.5
35°	7299.7	5407.7	1814.7	1155.1	1039.9	1002.0	968.9	937.3	908.9	874.2	871.0
37.5°	7967.2	5679.1	1789.4	1139.3	1017.8	959.4	921.5	899.4	896.3	875.8	874.2
40°	8697.8	6001.0	1808.4	1129.8	994.1	918.4	877.4	872.6	880.5	844.2	845.8
42.5°	9471.0	6382.9	1839.9	1118.8	961.0	877.4	837.9	837.9	831.6	781.1	781.1
45°	10307.3	6823.1	1871.5	1092.0	921.5	836.3	806.3	795.3	768.5	719.6	718.0
47.5°	11149.9	7271.3	1895.1	1043.0	874.2	801.6	774.8	749.5	710.1	665.9	664.3
50°	11950.0	7673.7	1869.9	970.5	820.5	768.5	740.1	705.4	662.7	632.8	628.0
52.5°	12664.8	8022.4	1762.6	885.2	763.7	733.8	708.5	672.2	637.5	605.9	602.8
55°	13286.5	8304.8	1573.2	804.8	713.2	703.8	678.5	632.8	585.4	558.6	555.4
57.5°	13883.0	8519.5	1336.5	738.5	667.5	670.6	632.8	591.7	547.6	519.2	516.0
60°	14676.7	8806.6	1096.7	676.9	618.6	628.0	587.0	557.0	501.8	465.5	460.8
62.5°	15945.4	9253.2	871.0	601.2	561.8	564.9	547.6	511.3	445.0	402.4	399.2
65°	16952.1	9089.1	686.4	519.2	497.1	501.8	501.8	462.3	391.3	342.4	337.7
67.5°	16838.5	7782.5	547.6	438.7	435.5	438.7	449.7	416.6	347.2	307.7	301.4
70°	15511.4	6190.4	438.7	364.5	378.7	370.8	402.4	380.3	312.4	273.0	268.3
72.5°	12656.9	4459.3	334.5	301.4	290.3	303.0	362.9	342.4	260.4	216.2	211.4
75°	7395.9	2379.6	249.3	238.3	209.9	252.5	321.9	291.9	198.8	159.4	154.6
77.5°	2408.0	830.0	183.0	175.2	156.2	203.6	274.6	246.2	162.5	126.2	121.5
80°	645.4	250.9	124.7	115.2	101.0	151.5	217.8	195.7	116.8	82.1	80.5
82.5°	258.8	105.7	72.6	64.7	55.2	104.1	172.0	157.8	86.8	52.1	52.1
85°	83.6	34.7	26.8	20.5	25.2	64.7	102.6	107.3	61.5	26.8	20.5
87.5°	11.0	4.7	4.7	6.3	4.7	11.0	31.6	30.0	17.4	3.2	0.0
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)