

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: P950209

Luminaire Tested: **GALN-SB4D-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950209
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-SB4D-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38472 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 293.6
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



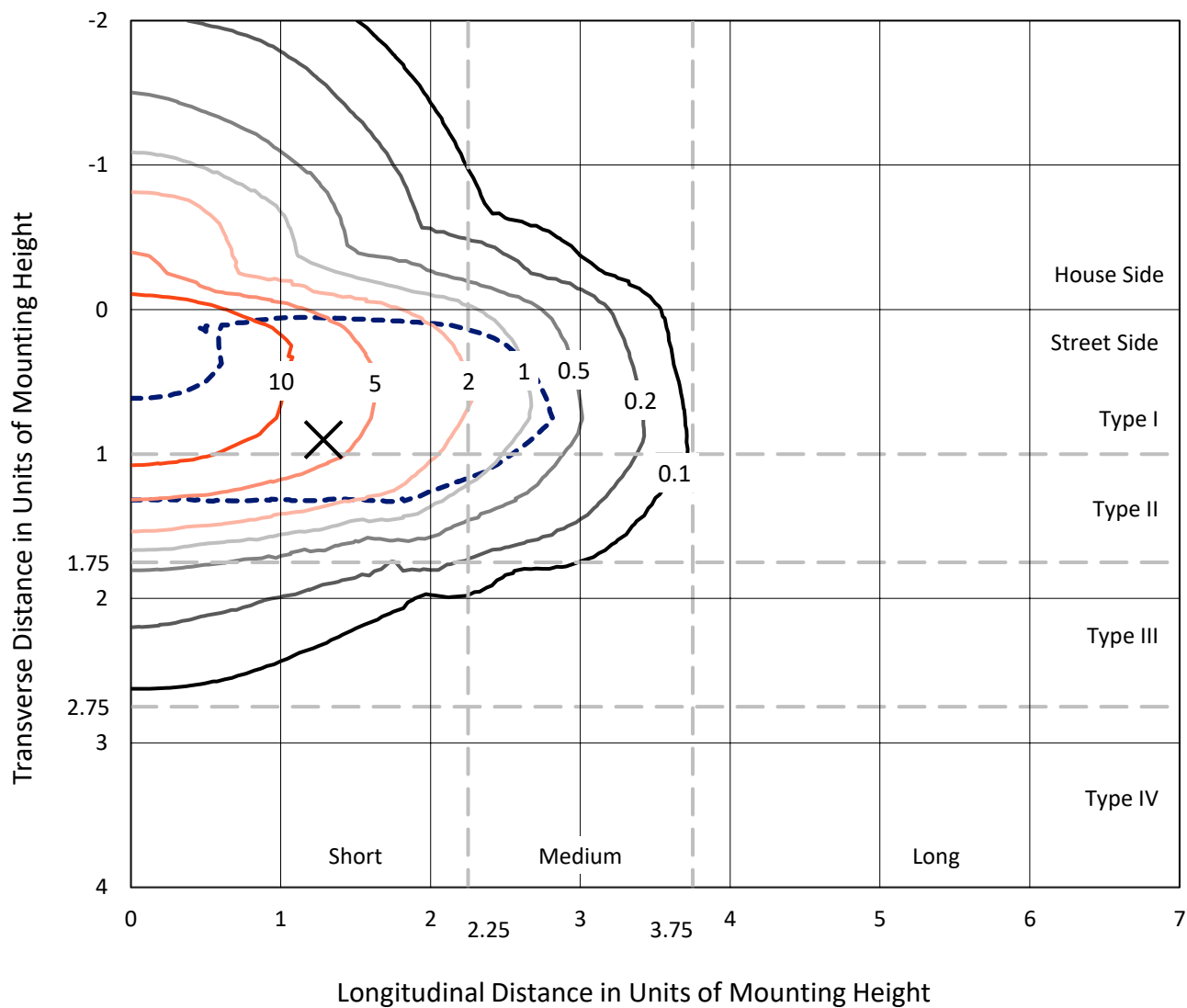
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

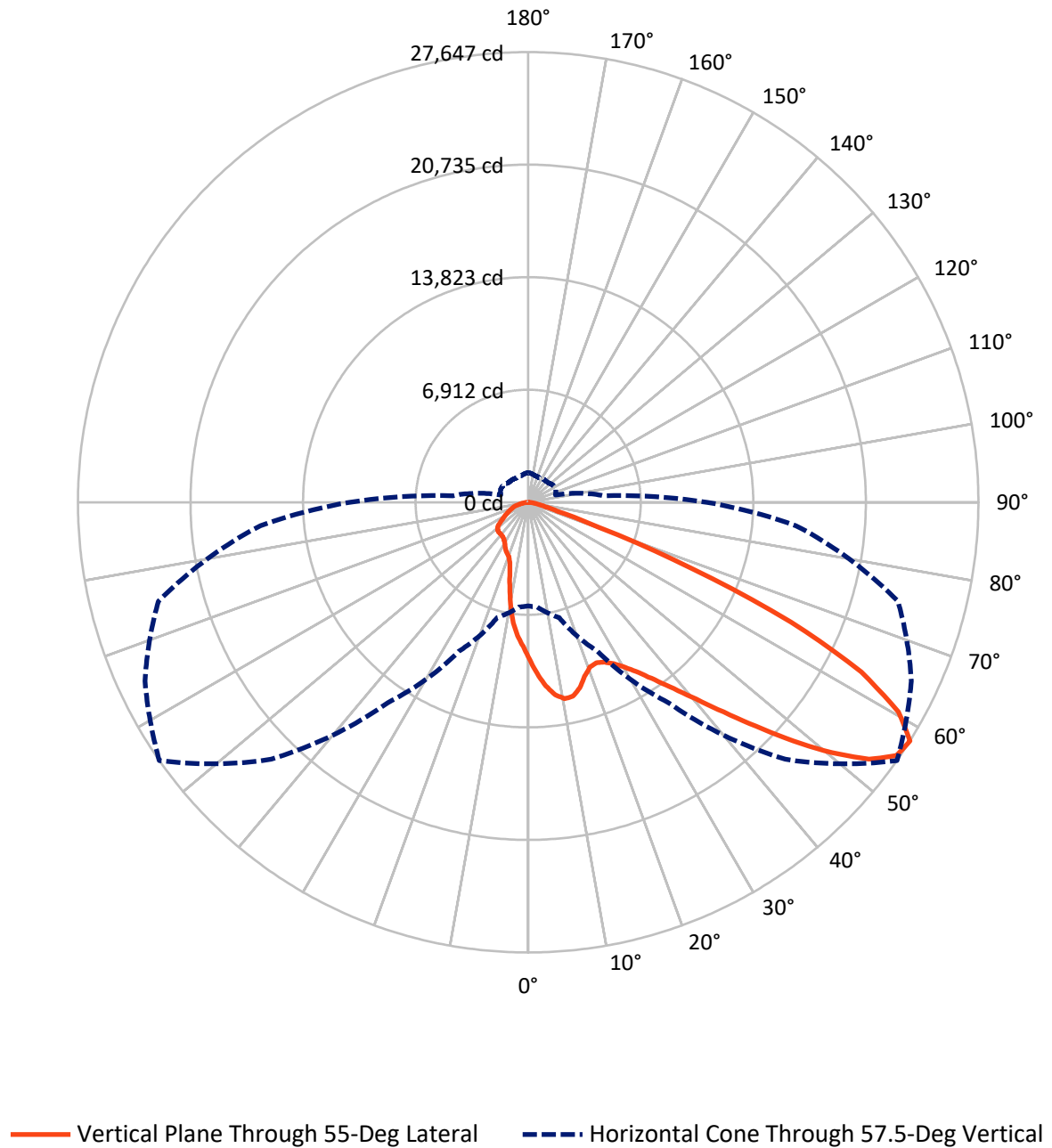


Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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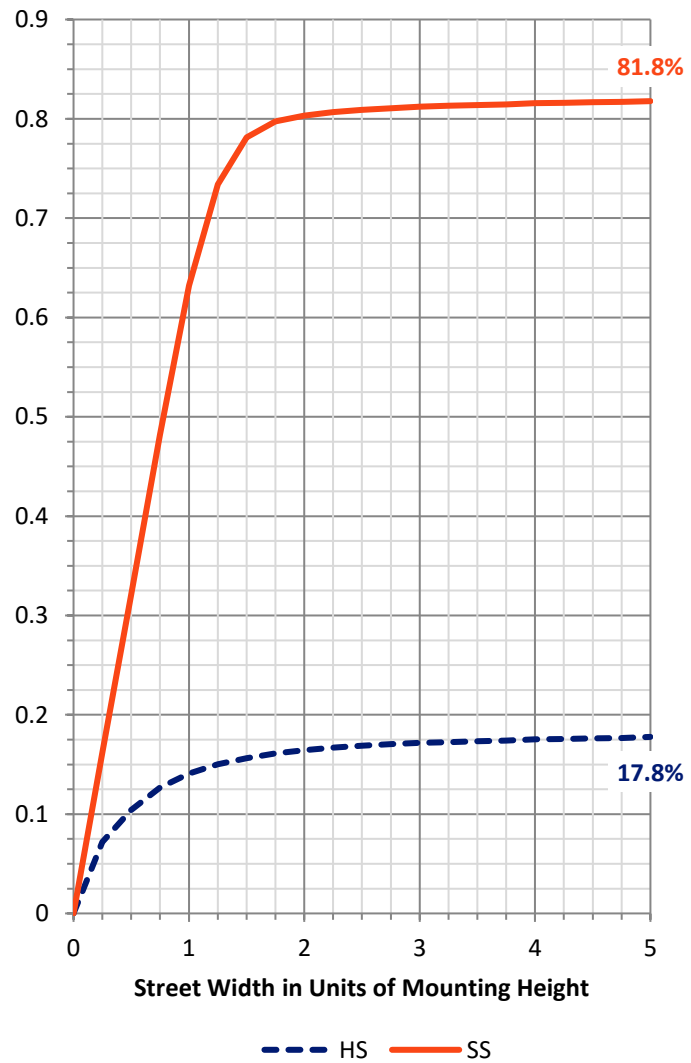
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6961.3	0.0	6961.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31510.7	0.0	31510.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	38472.0	0.0	38472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.5	2.3
10°-20°	2257.8	5.9
20°-30°	3602.8	9.4
30°-40°	5704.2	14.8
40°-50°	8730.8	22.7
50°-60°	9351.5	24.3
60°-70°	5883.1	15.3
70°-80°	1739.7	4.5
80°-90°	307.6	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°	38472.0	100.0
0°-180°	38472.0	100.0

Coefficient of Utilization



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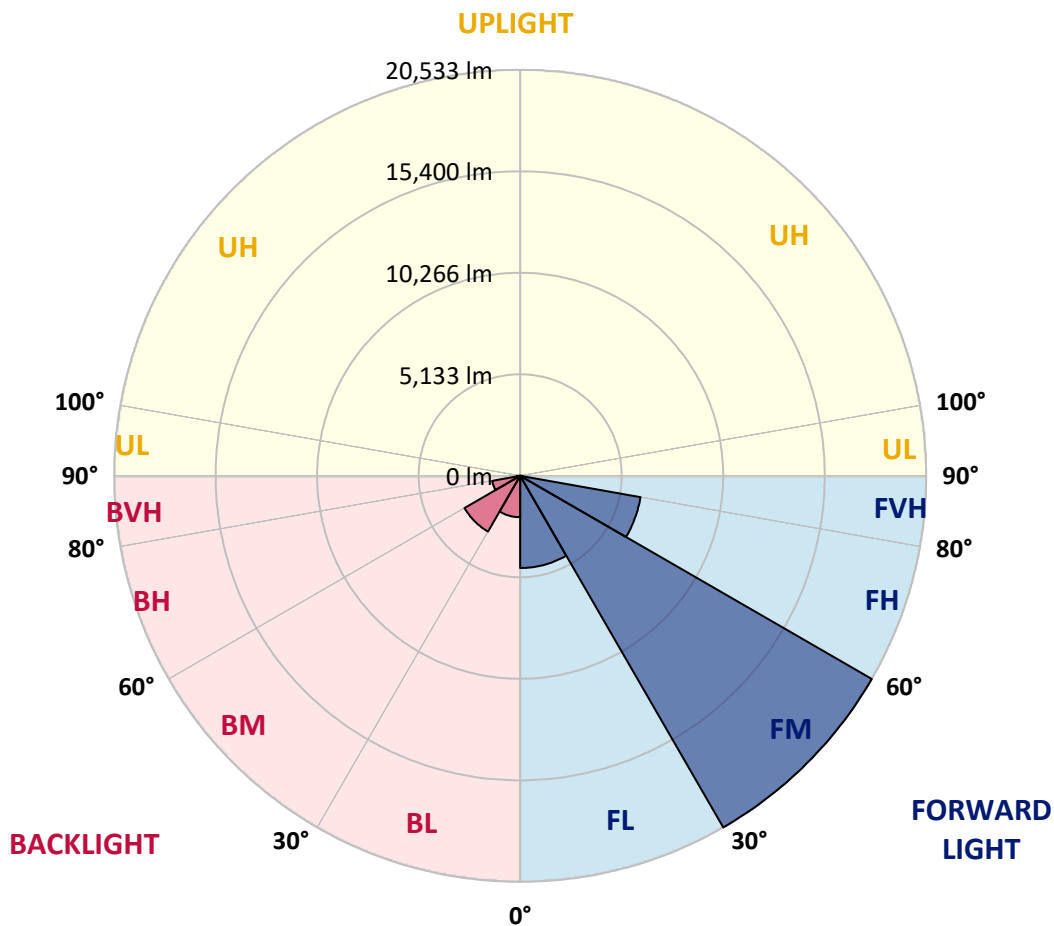
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4662.8	12.1			
FM	(30°-60°)	20532.8	53.4			
FH	(60°-80°)	6185.1	16.1			G3/7500
FVH	(80°-90°)	130.0	0.3			G2/225
BL	(0°-30°)	2092.3	5.4	B3/2500		
BM	(30°-60°)	3253.7	8.5	B3/5000		
BH	(60°-80°)	1437.7	3.7	B3/2500		G3/2500
BVH	(80°-90°)	177.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	11059.9	11051.9	11095.7	10946.5	10845.1	10707.8	10526.9	10296.1	10047.5	9785.0	9671.7
5°	12056.3	11986.6	12032.4	11921.0	11809.6	11602.8	11334.3	10958.4	10499.0	9975.9	9697.5
7.5°	11899.1	11851.4	11968.7	12068.2	12151.7	12125.9	11929.0	11535.2	10942.5	10182.8	9779.1
10°	10632.3	10578.6	10743.6	11087.7	11592.9	12032.4	12271.0	12026.4	11396.0	10409.5	9858.6
12.5°	9514.5	9488.7	9598.1	9876.5	10437.4	11280.6	12227.3	12456.0	11867.3	10678.0	9966.0
15°	9037.2	9005.4	9075.0	9216.2	9574.2	10359.8	11829.5	12750.4	12330.7	10988.3	10137.0
17.5°	8931.8	8896.0	8925.8	8999.4	9230.1	9828.8	11228.9	12895.5	12814.0	11334.3	10280.2
20°	9126.7	9096.9	9100.9	9096.9	9258.0	9733.3	10811.3	12839.9	13235.6	11652.5	10419.5
22.5°	9598.1	9548.3	9550.3	9444.9	9532.4	9900.4	10701.9	12690.7	13611.5	11931.0	10524.9
25°	10365.8	10276.3	10294.2	10025.7	10001.8	10274.3	10872.9	12575.3	13985.4	12153.7	10544.7
27.5°	11415.9	11314.4	11260.7	10861.0	10670.0	10805.3	11221.0	12615.1	14339.4	12346.6	10495.0
30°	12728.5	12605.2	12495.8	11929.0	11582.9	11533.2	11761.9	12877.6	14757.1	12549.5	10409.5
32.5°	14337.4	14194.2	13995.4	13243.6	12756.3	12495.8	12462.0	13345.0	15246.3	12808.0	10365.8
35°	16252.7	16065.7	15783.3	14810.8	14194.2	13661.2	13384.8	14019.2	15916.6	13197.8	10415.5
37.5°	18225.6	18014.8	17756.2	16598.7	15841.0	15055.4	14510.5	14934.1	16809.5	13726.9	10546.7
40°	20045.4	19808.7	19568.0	18537.8	17724.4	16777.7	15888.7	16091.6	17901.4	14359.3	10769.5
42.5°	21119.3	20944.3	20852.8	20296.0	19667.5	18706.9	17603.1	17463.9	19128.5	15087.2	11024.1
45°	21071.6	21000.0	21282.4	21513.1	21364.0	20831.0	19611.8	18981.3	20359.6	15717.7	11258.7
47.5°	19945.9	19993.7	20624.1	21920.8	22491.6	22770.1	21899.0	20471.0	21429.6	16189.0	11364.1
50°	16883.1	16922.9	18382.7	21179.0	22782.0	24351.2	24168.2	21924.8	22258.9	16477.4	11340.3
52.5°	14458.8	14484.6	15111.1	18979.4	21823.4	25146.7	26212.7	23295.1	22865.5	16557.0	11207.0
55°	10890.8	10980.3	11682.4	14890.3	19329.4	24516.2	27457.7	24707.2	23249.4	16564.9	11067.8
57.5°	6362.3	6459.7	7326.8	10107.2	15023.6	22318.6	27646.7	25960.1	23509.9	16501.3	10984.3
60°	3116.5	3158.3	3536.1	5312.2	9263.9	18084.4	26127.2	26566.7	23655.1	16467.5	10980.3
62.5°	2100.2	2094.2	2110.1	2621.3	4564.4	11618.7	22961.0	25504.7	23577.5	16338.2	10940.5
65°	1805.9	1784.0	1724.3	1839.7	2364.7	5314.1	17740.3	22334.5	22986.8	16014.0	10668.1
67.5°	1561.2	1563.2	1565.2	1529.4	1688.5	2452.2	10841.1	17593.1	20866.8	14478.6	9618.0
70°	1292.7	1310.6	1318.6	1318.6	1376.3	1609.0	4628.0	12058.2	16459.5	11352.2	7746.5
72.5°	1177.4	1139.6	1143.6	1123.7	1123.7	1225.1	1863.5	6835.6	10369.7	6386.1	4727.4
75°	960.6	984.5	988.4	974.5	928.8	934.7	1105.8	2867.9	4437.1	2649.1	2336.9
77.5°	829.3	829.3	837.3	827.4	791.6	700.1	737.9	1111.8	1509.5	1085.9	1167.4
80°	666.3	664.3	698.1	718.0	662.3	517.1	471.4	614.5	670.2	477.3	606.6
82.5°	324.2	344.1	479.3	546.9	503.2	373.9	288.4	381.9	358.0	210.8	272.5
85°	188.9	179.0	214.8	304.3	288.4	206.8	139.2	198.9	186.9	107.4	109.4
87.5°	59.7	55.7	43.8	103.4	83.5	57.7	37.8	57.7	51.7	23.9	23.9
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°	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8	9639.8
2.5°	9530.4	9295.8	9063.1	8850.3	8721.0	8637.5	8553.9	8460.5	8424.7	8371.0
5°	9435.0	8981.5	8577.8	8229.8	7913.5	7664.9	7414.3	7211.5	7120.0	7181.6
7.5°	9379.3	8723.0	8100.5	7462.1	6847.5	6356.3	5928.7	5628.4	5493.1	5526.9
10°	9329.6	8430.6	7482.0	6473.6	5590.6	4982.0	4544.5	4315.8	4230.2	4248.1
12.5°	9283.8	8102.5	6736.2	5409.6	4470.9	4069.1	3943.8	3945.8	3961.7	3973.7
15°	9275.9	7706.7	5902.8	4478.8	3866.3	3840.4	3975.7	4061.2	4106.9	4120.8
17.5°	9263.9	7233.4	5053.6	3844.4	3719.1	3894.1	4019.4	4075.1	4110.9	4112.9
20°	9216.2	6632.7	4270.0	3542.1	3687.3	3838.4	3916.0	3959.8	3989.6	3999.5
22.5°	9069.0	5964.5	3659.4	3406.9	3560.0	3681.3	3772.8	3822.5	3840.4	3852.4
25°	8804.5	5216.7	3237.8	3277.6	3383.0	3536.1	3609.7	3619.7	3613.7	3631.6
27.5°	8458.5	4415.2	2975.3	3102.6	3237.8	3369.1	3408.8	3402.9	3390.9	3410.8
30°	8040.8	3695.2	2808.2	2905.7	3090.6	3210.0	3245.8	3231.8	3208.0	3229.9
32.5°	7599.3	3106.5	2671.0	2768.4	2969.3	3086.7	3122.5	3108.5	3090.6	3108.5
35°	7187.6	2694.9	2543.7	2677.0	2873.9	2989.2	3034.9	3036.9	3036.9	3058.8
37.5°	6809.7	2454.2	2438.3	2619.3	2808.2	2911.6	2977.3	2981.2	2895.7	2901.7
40°	6459.7	2352.8	2390.6	2581.5	2744.6	2844.0	2848.0	2625.2	2468.1	2464.2
42.5°	6173.3	2332.9	2404.5	2577.5	2698.8	2702.8	2422.4	2249.4	2205.6	2207.6
45°	5904.8	2326.9	2436.3	2577.5	2631.2	2334.9	2145.9	2100.2	2104.2	2120.1
47.5°	5604.5	2303.1	2442.3	2541.7	2436.3	2076.3	2020.6	2000.8	1992.8	1996.8
50°	5276.4	2217.5	2366.7	2470.1	2102.2	1965.0	1895.4	1889.4	1899.3	1905.3
52.5°	4930.3	2078.3	2237.4	2340.8	1949.0	1867.5	1789.9	1803.9	1847.6	1861.5
55°	4703.6	1915.2	2066.4	2082.3	1841.7	1776.0	1710.4	1742.2	1823.8	1849.6
57.5°	4643.9	1742.2	1871.5	1853.6	1704.4	1696.5	1656.7	1684.5	1788.0	1825.7
60°	4626.0	1587.1	1680.6	1666.6	1571.2	1609.0	1599.0	1612.9	1648.7	1660.7
62.5°	4486.8	1463.8	1509.5	1489.6	1451.8	1517.5	1541.3	1511.5	1539.4	1553.3
65°	4132.8	1364.3	1342.5	1328.5	1344.4	1404.1	1451.8	1392.2	1418.0	1457.8
67.5°	3548.1	1229.1	1169.4	1185.3	1235.1	1266.9	1328.5	1260.9	1282.8	1350.4
70°	2869.9	1058.1	1004.4	1050.1	1097.8	1163.5	1173.4	1127.7	1179.4	1254.9
72.5°	2030.6	885.0	847.2	940.7	956.6	1042.1	1020.3	998.4	1070.0	1095.8
75°	1408.1	714.0	692.1	763.7	821.4	895.0	879.1	904.9	1056.1	1068.0
77.5°	891.0	554.9	541.0	586.7	666.3	747.8	773.7	1068.0	1803.9	1875.5
80°	517.1	413.7	397.8	433.6	503.2	578.7	745.8	1310.6	1189.3	1175.4
82.5°	288.4	284.4	264.5	274.5	336.1	417.7	1054.1	922.8	749.8	773.7
85°	135.2	167.1	143.2	137.2	188.9	489.3	704.0	527.0	350.0	342.1
87.5°	35.8	31.8	31.8	35.8	79.6	421.6	280.4	224.7	133.3	129.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)