

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: P956278

Luminaire Tested: **GALN-SB9A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956278
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-SB9A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38543 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 255.5
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



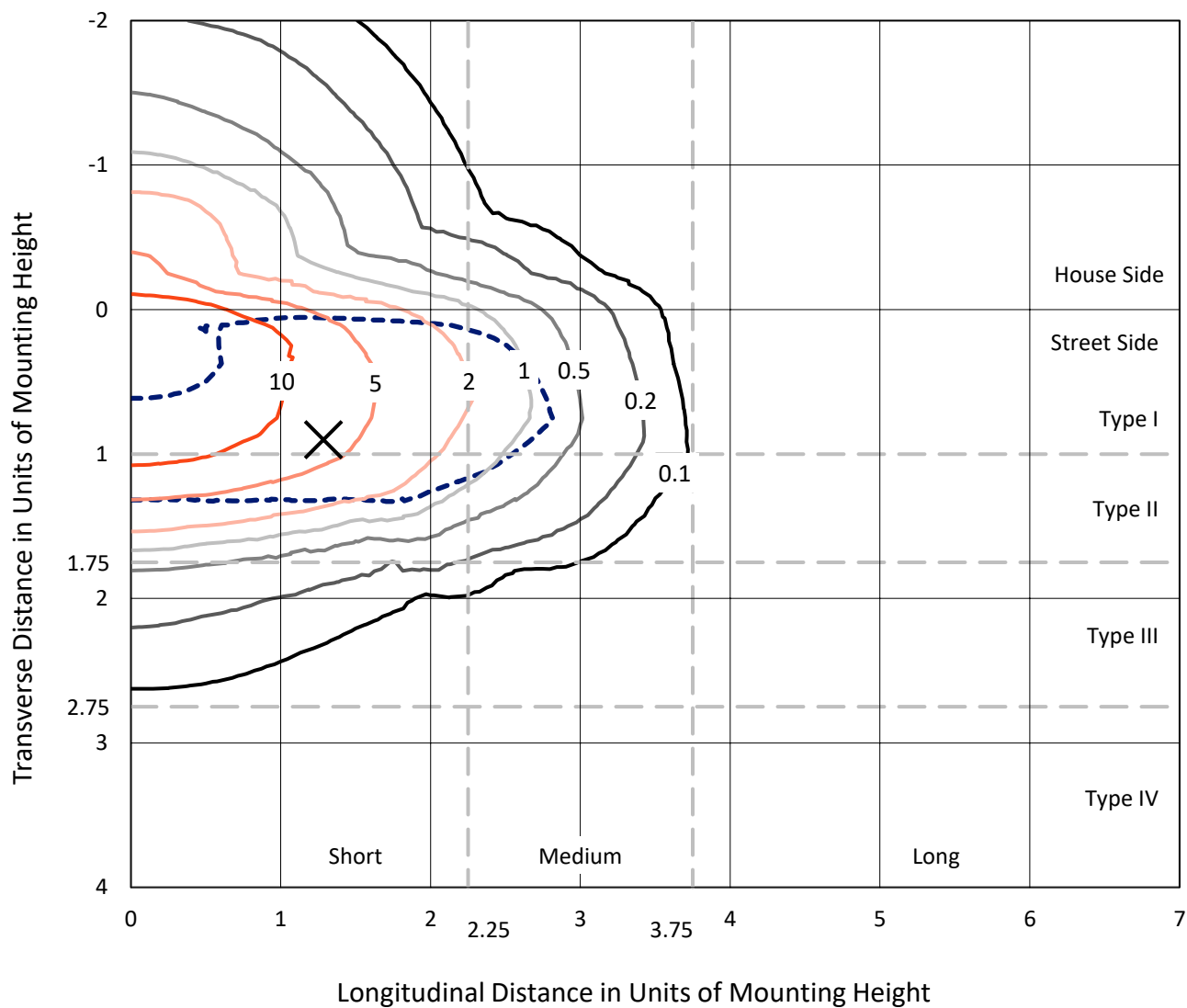
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

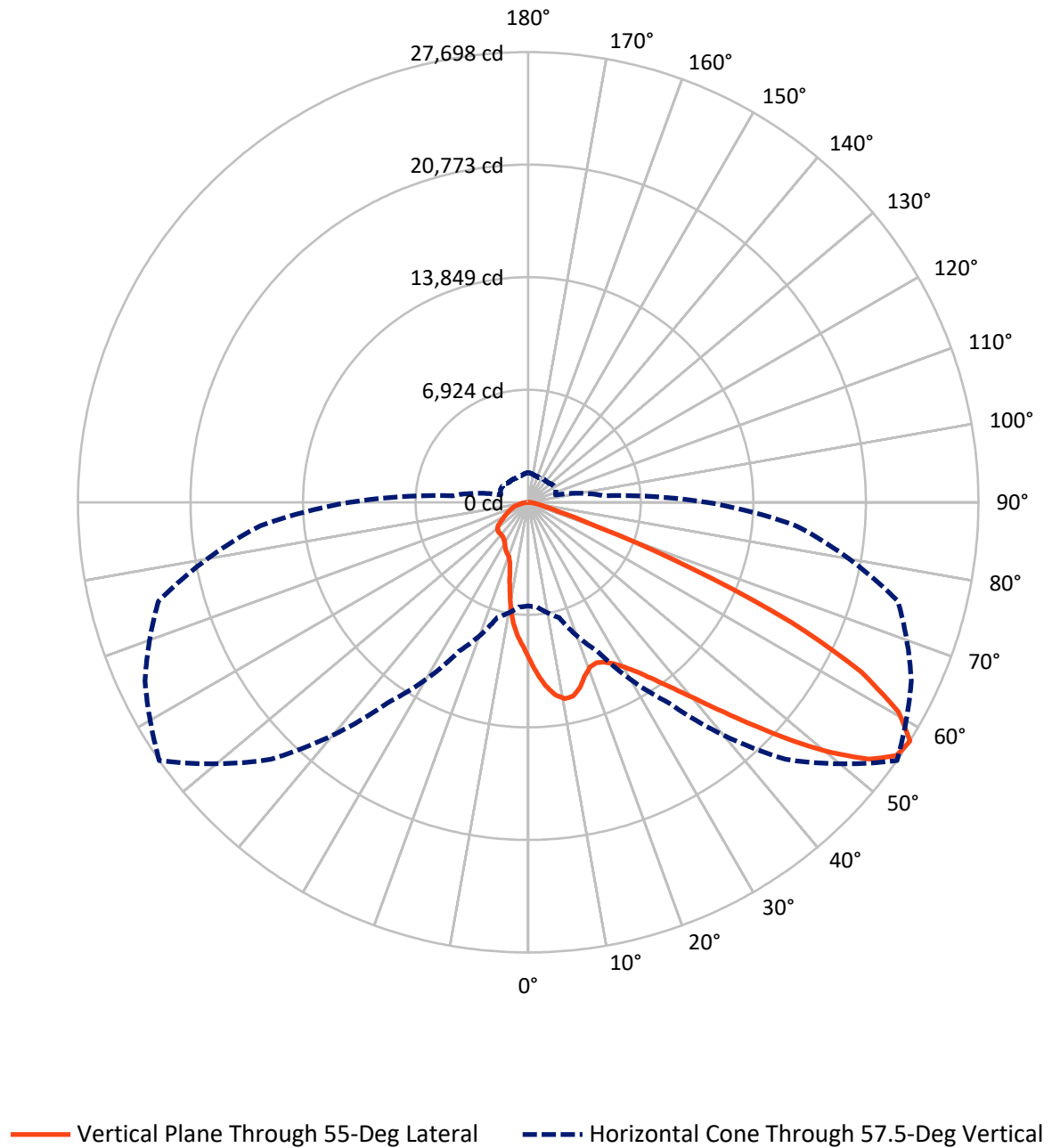


Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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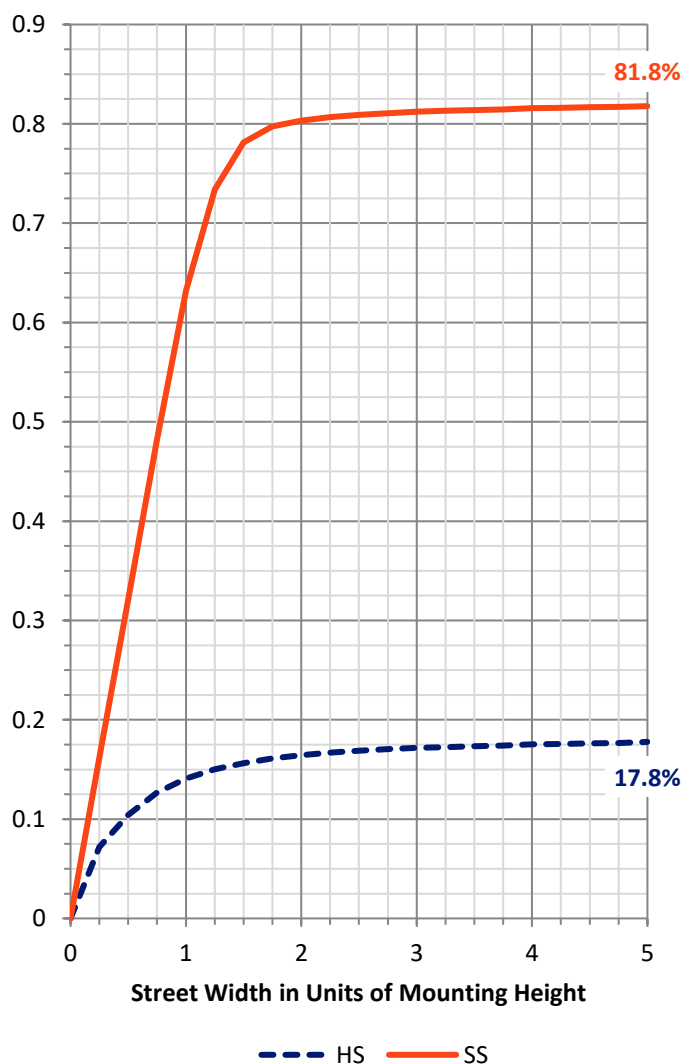
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6974.2	0.0	6974.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31568.8	0.0	31568.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	38543.0	0.0	38543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	896.2	2.3
10°-20°	2262.0	5.9
20°-30°	3609.5	9.4
30°-40°	5714.7	14.8
40°-50°	8746.9	22.7
50°-60°	9368.8	24.3
60°-70°	5893.9	15.3
70°-80°	1743.0	4.5
80°-90°	308.2	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°	38543.0	100.0
0°-180°	38543.0	100.0

Coefficient of Utilization



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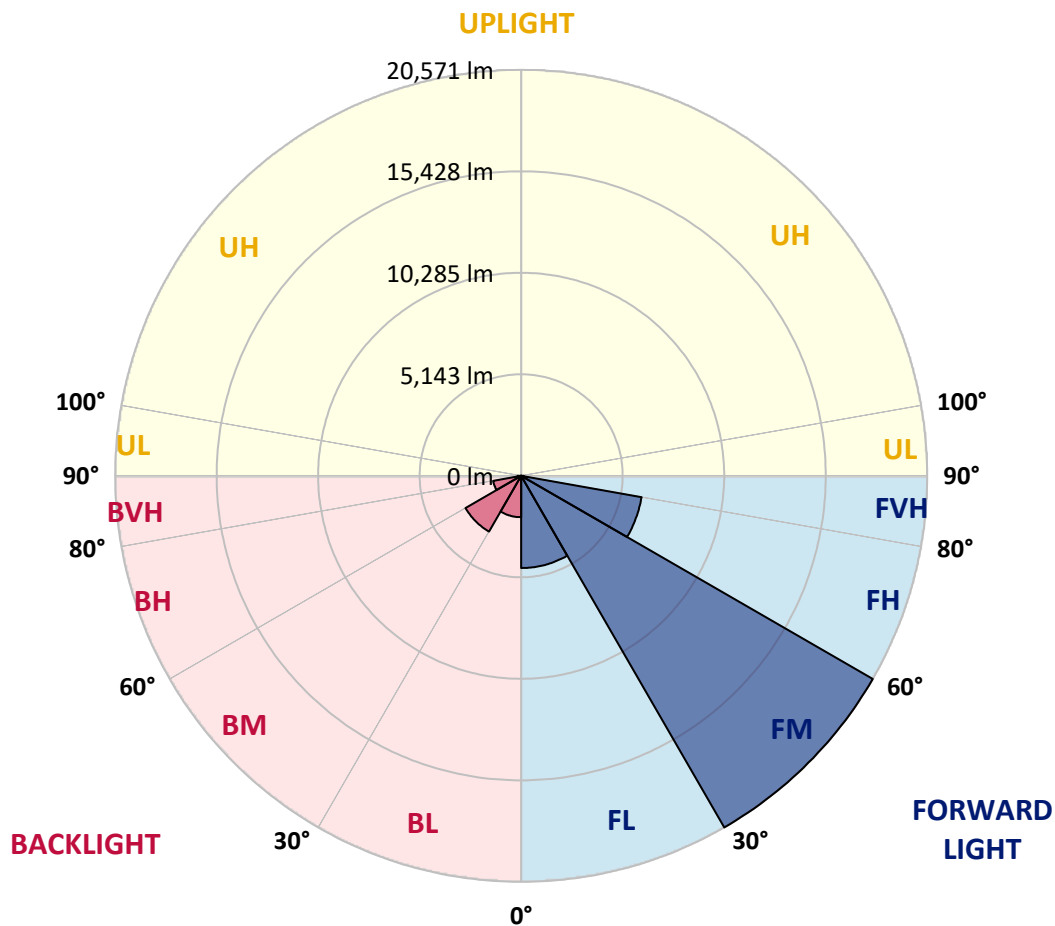
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4671.4	12.1			
FM	(30°-60°)	20570.7	53.4			
FH	(60°-80°)	6196.5	16.1			G3/7500
FVH	(80°-90°)	130.2	0.3			G2/225
BL	(0°-30°)	2096.2	5.4	B3/2500		
BM	(30°-60°)	3259.7	8.5	B3/5000		
BH	(60°-80°)	1440.3	3.7	B3/2500		G3/2500
BVH	(80°-90°)	178.0	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°	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6
2.5°	11080.3	11072.3	11116.1	10966.7	10865.1	10727.6	10546.3	10315.1	10066.1	9803.1	9689.5
5°	12078.5	12008.8	12054.6	11943.0	11831.4	11624.2	11355.2	10978.6	10518.4	9994.4	9715.4
7.5°	11921.1	11873.3	11990.8	12090.5	12174.1	12148.2	11951.0	11556.5	10962.7	10201.6	9797.1
10°	10651.9	10598.1	10763.5	11108.2	11614.3	12054.6	12293.7	12048.6	11417.0	10428.7	9876.8
12.5°	9532.1	9506.2	9615.8	9894.7	10456.6	11301.4	12249.9	12479.0	11889.2	10697.7	9984.4
15°	9053.9	9022.0	9091.8	9233.2	9591.9	10378.9	11851.4	12773.9	12353.5	11008.5	10155.7
17.5°	8948.3	8912.4	8942.3	9016.0	9247.2	9846.9	11249.6	12919.3	12837.6	11355.2	10299.2
20°	9143.6	9113.7	9117.7	9113.7	9275.1	9751.3	10831.2	12863.5	13260.1	11674.0	10438.7
22.5°	9615.8	9566.0	9568.0	9462.4	9550.0	9918.6	10721.6	12714.1	13636.6	11953.0	10544.3
25°	10384.9	10295.2	10313.2	10044.2	10020.3	10293.2	10893.0	12598.5	14011.2	12176.1	10564.2
27.5°	11436.9	11335.3	11281.5	10881.0	10689.7	10825.2	11241.7	12638.4	14365.9	12369.4	10514.4
30°	12752.0	12628.4	12518.8	11951.0	11604.3	11554.5	11783.6	12901.4	14784.3	12572.6	10428.7
32.5°	14363.9	14220.4	14021.2	13268.0	12779.9	12518.8	12485.0	13369.6	15274.5	12831.7	10384.9
35°	16282.7	16095.4	15812.4	14838.1	14220.4	13686.5	13409.5	14045.1	15945.9	13222.2	10434.7
37.5°	18259.2	18048.0	17789.0	16629.4	15870.2	15083.2	14537.2	14961.6	16840.6	13752.2	10566.2
40°	20082.4	19845.3	19604.2	18572.0	17757.1	16808.7	15918.0	16121.3	17934.5	14385.8	10789.4
42.5°	21158.3	20983.0	20891.3	20333.4	19703.8	18741.4	17635.6	17496.1	19163.8	15115.1	11044.4
45°	21110.5	21038.8	21321.7	21552.8	21403.4	20869.4	19648.0	19016.4	20397.2	15746.7	11279.5
47.5°	19982.7	20030.6	20662.2	21961.3	22533.1	22812.1	21939.4	20508.8	21469.1	16218.9	11385.1
50°	16914.3	16954.1	18416.6	21218.1	22824.0	24396.1	24212.8	21965.3	22300.0	16507.8	11361.2
52.5°	14485.4	14511.3	15139.0	19014.4	21863.7	25193.1	26261.1	23338.1	22907.7	16587.5	11227.7
55°	10910.9	11000.6	11703.9	14917.8	19365.1	24561.5	27508.4	24752.8	23292.3	16595.5	11088.2
57.5°	6374.0	6471.6	7340.4	10125.9	15051.3	22359.8	27697.7	26008.0	23553.3	16531.7	11004.6
60°	3122.2	3164.1	3542.7	5322.0	9281.0	18117.8	26175.4	26615.8	23698.7	16497.9	11000.6
62.5°	2104.1	2098.1	2114.0	2626.1	4572.8	11640.2	23003.4	25551.8	23621.0	16368.3	10960.7
65°	1809.2	1787.3	1727.5	1843.1	2369.1	5323.9	17773.1	22375.7	23029.3	16043.6	10687.7
67.5°	1564.1	1566.1	1568.1	1532.2	1691.6	2456.7	10861.1	17625.6	20905.3	14505.4	9635.7
70°	1295.1	1313.1	1321.0	1321.0	1378.8	1611.9	4636.5	12080.5	16489.9	11373.2	7760.8
72.5°	1179.6	1141.7	1145.7	1125.8	1125.8	1227.4	1867.0	6848.2	10388.9	6397.9	4736.2
75°	962.4	986.3	990.3	976.3	930.5	936.5	1107.8	2873.2	4445.3	2654.0	2341.2
77.5°	830.9	830.9	838.8	828.9	793.0	701.4	739.2	1113.8	1512.3	1087.9	1169.6
80°	667.5	665.5	699.4	719.3	663.5	518.0	472.2	615.7	671.5	478.2	607.7
82.5°	324.8	344.7	480.2	547.9	504.1	374.6	288.9	382.6	358.6	211.2	273.0
85°	189.3	179.3	215.2	304.9	288.9	207.2	139.5	199.2	187.3	107.6	109.6
87.5°	59.8	55.8	43.8	103.6	83.7	57.8	37.9	57.8	51.8	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°	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6	9657.6
2.5°	9548.0	9312.9	9079.8	8866.6	8737.1	8653.4	8569.7	8476.1	8440.2	8386.4
5°	9452.4	8998.1	8593.6	8244.9	7928.1	7679.1	7428.0	7224.8	7133.1	7194.9
7.5°	9396.6	8739.1	8115.4	7475.8	6860.2	6368.0	5939.6	5638.8	5503.3	5537.1
10°	9346.8	8446.2	7495.8	6485.6	5600.9	4991.2	4552.9	4323.7	4238.0	4256.0
12.5°	9301.0	8117.4	6748.6	5419.6	4479.1	4076.6	3951.1	3953.1	3969.1	3981.0
15°	9293.0	7720.9	5913.7	4487.1	3873.4	3847.5	3983.0	4068.7	4114.5	4128.5
17.5°	9281.0	7246.7	5062.9	3851.5	3726.0	3901.3	4026.8	4082.6	4118.5	4120.5
20°	9233.2	6645.0	4277.9	3548.6	3694.1	3845.5	3923.2	3967.1	3996.9	4006.9
22.5°	9085.8	5975.5	3666.2	3413.1	3566.6	3688.1	3779.8	3829.6	3847.5	3859.5
25°	8820.8	5226.3	3243.8	3283.6	3389.2	3542.7	3616.4	3626.3	3620.4	3638.3
27.5°	8474.1	4423.3	2980.8	3108.3	3243.8	3375.3	3415.1	3409.2	3397.2	3417.1
30°	8055.7	3702.1	2813.4	2911.0	3096.3	3215.9	3251.8	3237.8	3213.9	3235.8
32.5°	7613.3	3112.3	2675.9	2773.6	2974.8	3092.4	3128.2	3114.3	3096.3	3114.3
35°	7200.9	2699.8	2548.4	2681.9	2879.2	2994.7	3040.5	3042.5	3042.5	3064.5
37.5°	6822.3	2458.7	2442.8	2624.1	2813.4	2917.0	2982.8	2986.8	2901.1	2907.1
40°	6471.6	2357.1	2395.0	2586.3	2749.6	2849.3	2853.3	2630.1	2472.7	2468.7
42.5°	6184.7	2337.2	2408.9	2582.3	2703.8	2707.8	2426.9	2253.5	2209.7	2211.7
45°	5915.7	2331.2	2440.8	2582.3	2636.1	2339.2	2149.9	2104.1	2108.1	2124.0
47.5°	5614.9	2307.3	2446.8	2546.4	2440.8	2080.2	2024.4	2004.5	1996.5	2000.5
50°	5286.1	2221.6	2371.1	2474.7	2106.1	1968.6	1898.8	1892.9	1902.8	1908.8
52.5°	4939.4	2082.2	2241.6	2345.2	1952.6	1871.0	1793.2	1807.2	1851.0	1865.0
55°	4712.3	1918.8	2070.2	2086.1	1845.1	1779.3	1713.5	1745.4	1827.1	1853.0
57.5°	4652.5	1745.4	1874.9	1857.0	1707.6	1699.6	1659.7	1687.6	1791.3	1829.1
60°	4634.5	1590.0	1683.7	1669.7	1574.1	1611.9	1602.0	1615.9	1651.8	1663.7
62.5°	4495.1	1466.5	1512.3	1492.4	1454.5	1520.3	1544.2	1514.3	1542.2	1556.1
65°	4140.4	1366.9	1344.9	1331.0	1346.9	1406.7	1454.5	1394.7	1420.6	1460.5
67.5°	3554.6	1231.4	1171.6	1187.5	1237.3	1269.2	1331.0	1263.2	1285.2	1352.9
70°	2875.2	1060.0	1006.2	1052.0	1099.9	1165.6	1175.6	1129.7	1181.5	1257.3
72.5°	2034.3	886.7	848.8	942.5	958.4	1044.1	1022.2	1000.2	1072.0	1097.9
75°	1410.7	715.3	693.4	765.1	822.9	896.6	880.7	906.6	1058.0	1070.0
77.5°	892.6	555.9	542.0	587.8	667.5	749.2	775.1	1070.0	1807.2	1878.9
80°	518.0	414.4	398.5	434.4	504.1	579.8	747.2	1313.1	1191.5	1177.6
82.5°	288.9	284.9	265.0	275.0	336.7	418.4	1056.0	924.5	751.2	775.1
85°	135.5	167.4	143.5	137.5	189.3	490.2	705.3	528.0	350.7	342.7
87.5°	35.9	31.9	31.9	35.9	79.7	422.4	280.9	225.2	133.5	129.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)