

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: P647663

Luminaire Tested: **GALN-SA9D-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53749.8 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

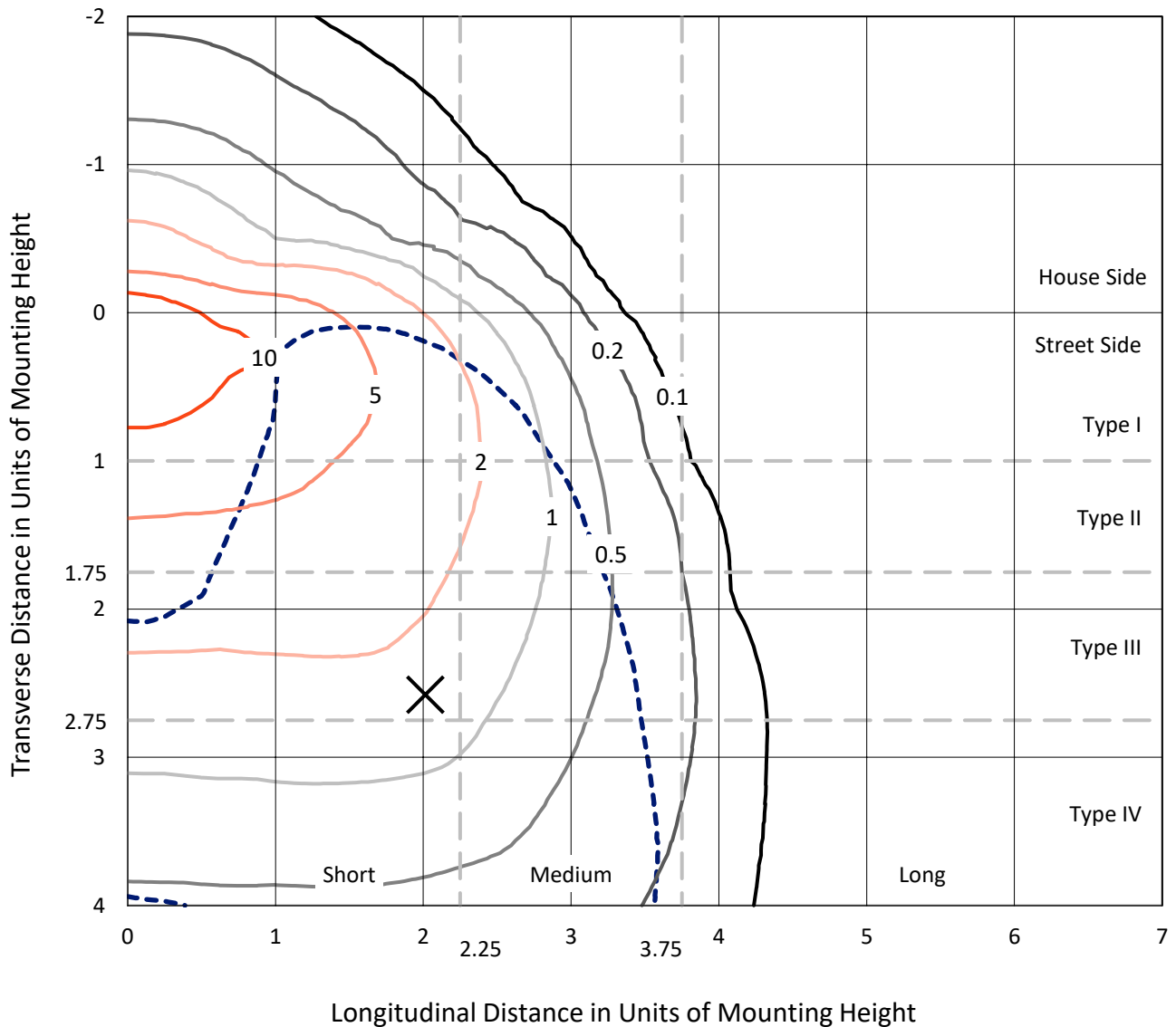
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647663
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Iso-Footcandle Lines of Horizontal Illumination

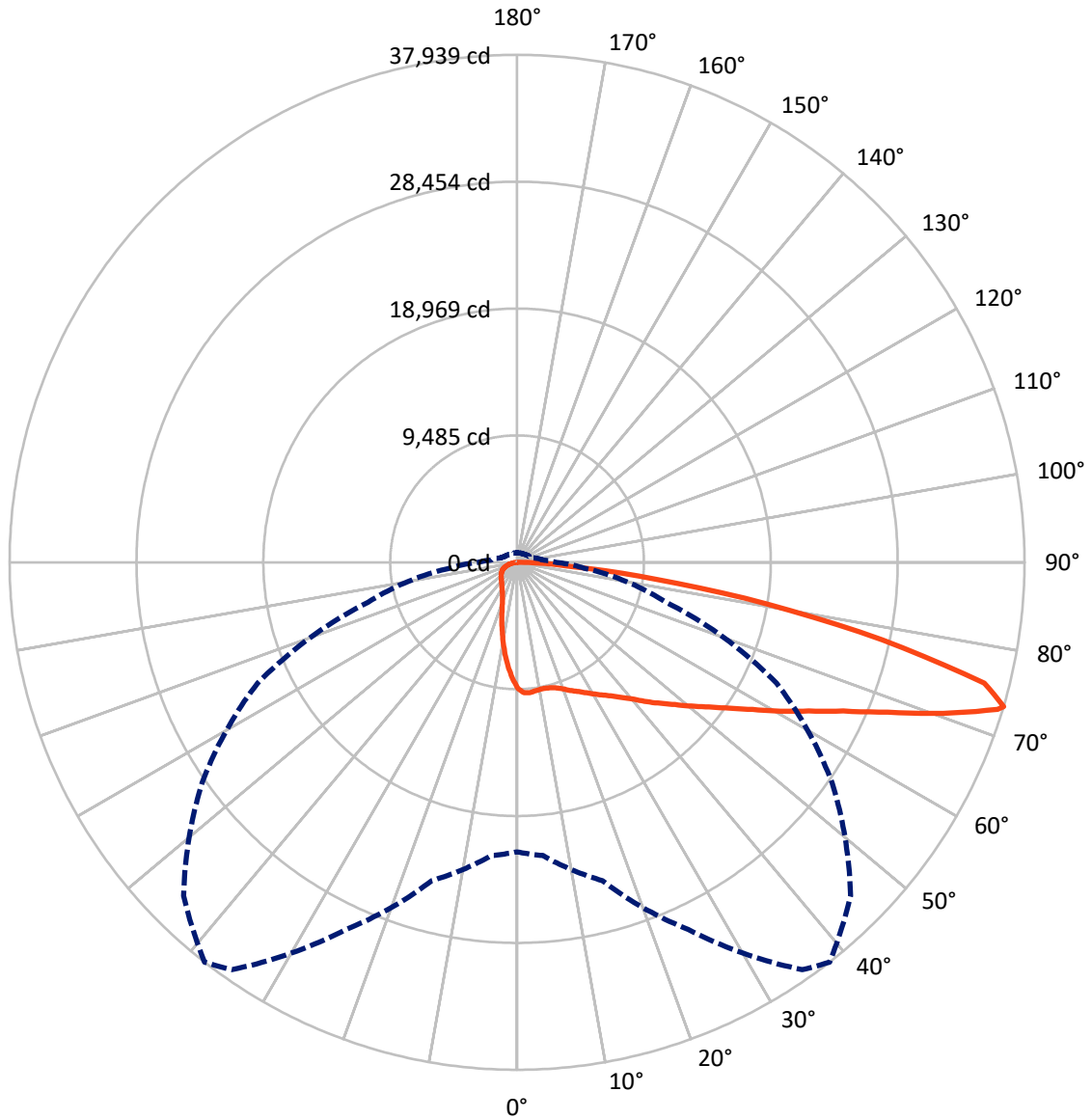
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SA9D-835-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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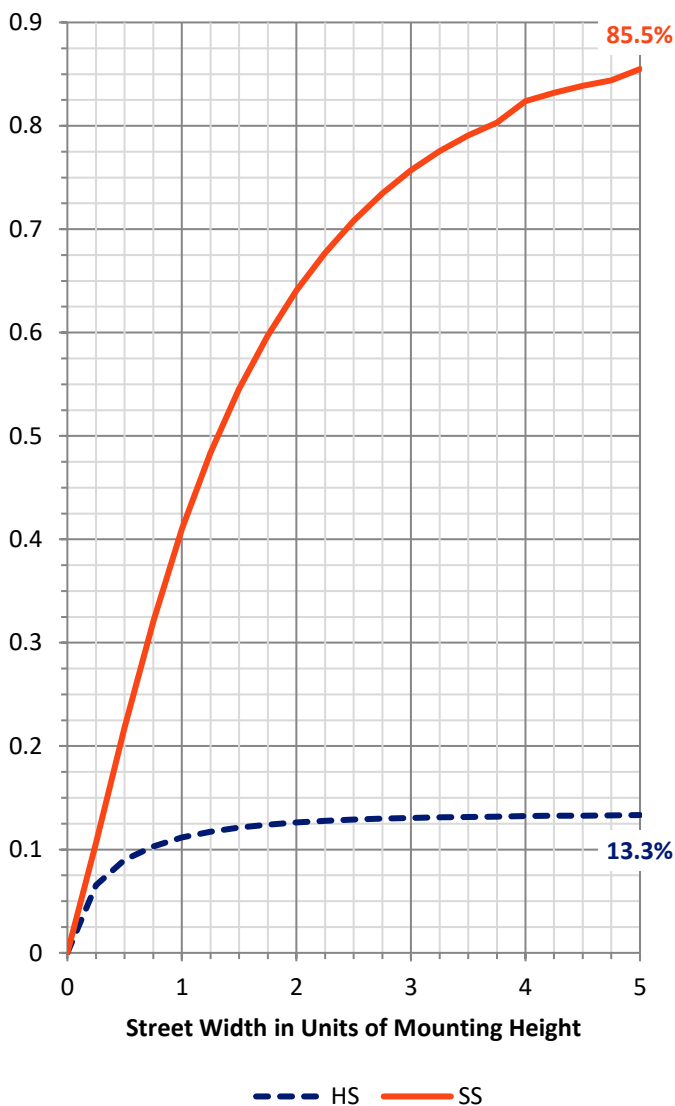
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7225.6	0.0	7225.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	46524.3	0.0	46524.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	53749.8	0.0	53749.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.2	1.5
10°-20°	2113.7	3.9
20°-30°	3291.4	6.1
30°-40°	4827.7	9.0
40°-50°	7161.4	13.3
50°-60°	10146.3	18.9
60°-70°	12870.9	23.9
70°-80°	10714.0	19.9
80°-90°	1800.1	3.3
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°	53749.8	100.0
0°-180°	53749.8	100.0

Coefficient of Utilization

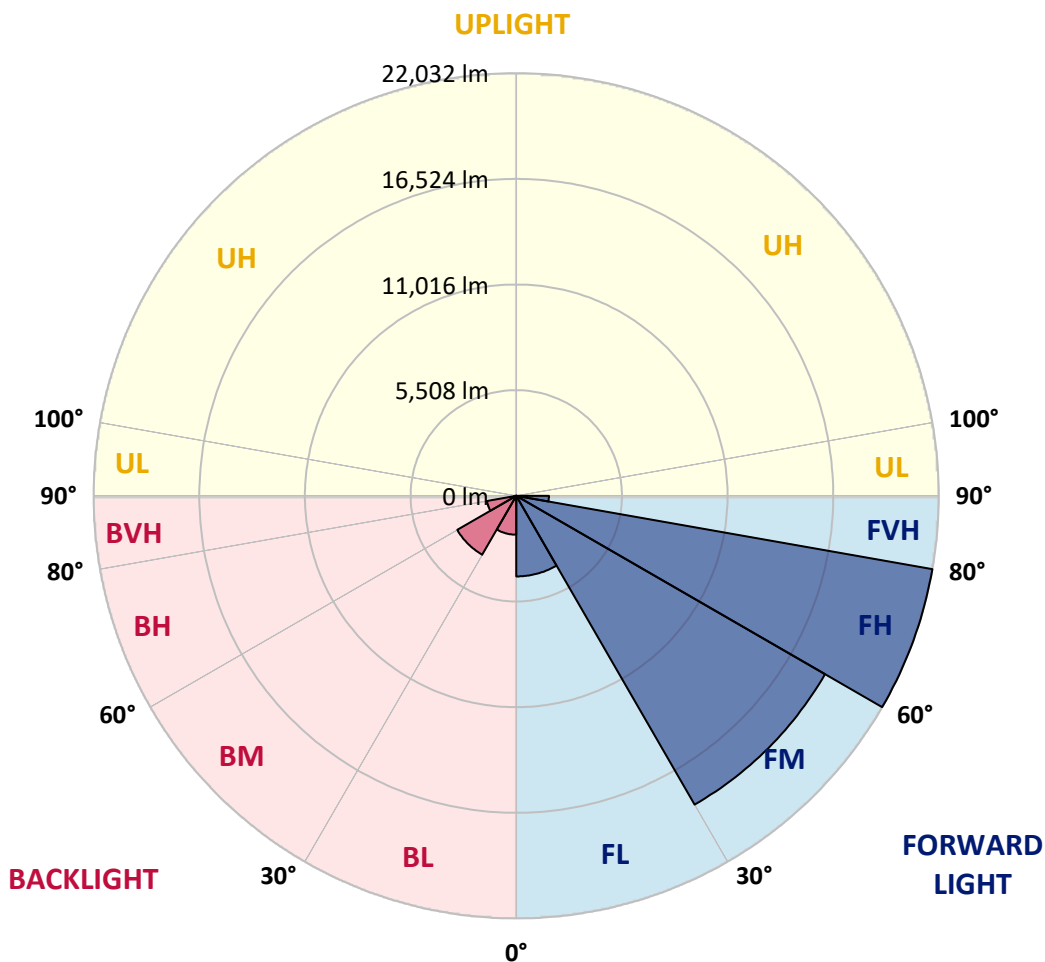


REPORT NUMBER: P647663
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4201.8	7.8			
FM (30°-60°)	18588.1	34.6			
FH (60°-80°)	22031.8	41.0			G5
FVH (80°-90°)	1702.5	3.2			G5
BL (0°-30°)	2027.6	3.8	B3/2500		
BM (30°-60°)	3547.3	6.6	B3/5000		
BH (60°-80°)	1553.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	97.6	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9
2.5°	9822.3	9870.9	9846.6	9813.3	9792.0	9770.7	9740.4	9652.4	9582.6	9506.6	9388.3
5°	9895.2	9925.5	9904.3	9861.8	9813.3	9792.0	9734.3	9619.0	9506.6	9379.2	9203.1
7.5°	9852.7	9864.9	9840.6	9789.0	9746.5	9707.0	9640.2	9512.7	9376.2	9221.4	8990.6
10°	9700.9	9746.5	9746.5	9704.0	9661.5	9640.2	9573.4	9452.1	9327.6	9151.5	8878.4
12.5°	9576.5	9625.0	9664.5	9652.4	9649.3	9649.3	9597.7	9506.6	9361.0	9194.1	8869.3
15°	9491.5	9549.2	9634.2	9682.7	9713.1	9722.2	9700.9	9622.1	9473.3	9279.0	8905.7
17.5°	9473.3	9543.1	9697.9	9804.1	9883.0	9880.1	9873.9	9764.7	9600.8	9400.5	8951.2
20°	9555.3	9646.3	9861.8	10028.7	10144.1	10122.9	10089.4	9946.8	9755.6	9531.0	8993.7
22.5°	9801.1	9895.2	10131.9	10314.1	10426.3	10426.3	10326.2	10138.0	9934.6	9682.7	9051.4
25°	10153.2	10256.4	10508.3	10693.5	10745.1	10705.6	10605.5	10377.8	10144.1	9901.3	9172.8
27.5°	10584.2	10708.7	10942.4	11097.2	11082.0	11051.7	10948.5	10657.1	10423.4	10201.8	9379.2
30°	11121.5	11212.6	11455.4	11491.8	11437.1	11431.1	11285.4	10994.0	10775.4	10605.5	9673.7
32.5°	11628.4	11710.3	11904.6	11919.8	11822.7	11834.8	11698.2	11431.1	11306.6	11245.9	10168.4
35°	12165.6	12208.1	12375.1	12356.8	12293.1	12284.0	12229.4	11974.4	12013.9	12123.1	10869.5
37.5°	12614.8	12699.9	12793.9	12809.1	12806.1	12836.4	12872.8	12751.5	12979.1	13322.1	11789.2
40°	13027.6	13100.5	13240.1	13288.7	13407.1	13467.8	13592.3	13595.3	14120.4	14684.9	12921.5
42.5°	13306.9	13431.3	13692.4	13780.4	14068.8	14250.9	14436.1	14633.3	15395.2	16120.6	14256.9
45°	13549.7	13713.6	14147.7	14420.9	14812.5	15034.0	15425.6	15838.4	16934.2	17884.2	15613.8
47.5°	13917.0	14062.7	14560.5	15043.2	15635.0	15890.0	16475.8	17092.0	18524.7	19565.8	16912.9
50°	14426.9	14514.9	15021.9	15808.1	16563.8	16891.7	17665.7	18555.0	20224.4	21226.1	18054.2
52.5°	15079.6	15116.0	15519.7	16566.9	17562.5	17969.2	18995.1	20033.2	21711.7	22667.9	18958.7
55°	15850.5	15789.8	16105.5	17371.2	18703.8	19234.9	20336.8	21529.7	23384.2	23833.4	19617.4
57.5°	16612.4	16518.3	16770.2	18348.6	20112.1	20752.6	22036.5	23071.6	24877.6	24923.1	20078.8
60°	17419.8	17349.9	17650.5	19496.0	21839.3	22598.1	23784.9	24671.2	26322.4	25682.0	20151.6
62.5°	18248.4	18136.2	18564.1	20786.0	23784.9	24473.9	25624.3	26371.0	27740.0	25964.3	19450.4
65°	19052.8	19001.2	19662.9	22318.9	26000.7	26783.8	27900.8	28407.7	28875.2	25539.3	17711.2
67.5°	19908.8	20012.0	21068.3	24364.6	28890.4	29873.8	31078.8	30602.3	29199.9	23526.9	14915.7
70°	21214.0	21280.8	22913.8	27044.8	32614.7	33801.5	34384.3	31382.3	27633.7	19705.4	11212.6
72.5°	21775.5	22070.0	24561.9	29858.6	36845.9	37571.4	35495.2	29643.1	23020.0	13385.9	5891.6
73°	21651.0	22003.2	24637.8	30286.6	37176.8	37938.7	35258.5	28747.7	21399.2	11528.2	5050.8
75°	20100.0	20534.0	23651.4	29928.5	36533.3	36078.0	31452.2	24501.2	14460.4	5242.0	2300.8
77.5°	15859.7	15984.1	18740.2	24167.4	28768.9	27925.1	23539.0	15313.3	5906.8	1948.7	1305.2
80°	7955.6	8414.0	10563.0	13844.1	19238.0	18961.8	14858.0	7242.3	2461.7	1144.4	865.1
82.5°	3827.5	4152.3	5144.9	6750.6	10629.8	10377.8	7357.7	3958.1	1563.2	667.7	510.0
85°	2464.7	2707.5	3275.1	3220.5	4370.9	4173.6	3305.5	2995.9	925.7	349.1	355.2
87.5°	1626.9	1781.7	2136.9	1708.9	1590.5	1438.8	1460.0	1687.7	182.1	133.6	48.5
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°	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9	9442.9
2.5°	9339.7	9300.2	9169.7	9042.2	8920.9	8805.5	8729.7	8629.4	8562.7	8580.9	8608.2
5°	9106.0	9018.0	8787.3	8562.7	8350.2	8098.3	7894.9	7731.0	7606.5	7561.0	7551.9
7.5°	8860.1	8711.4	8380.5	7995.1	7633.9	7321.2	6960.0	6780.9	6571.5	6498.7	6474.4
10°	8711.4	8511.1	8046.7	7509.4	6966.1	6447.1	6055.5	5736.8	5448.4	5393.8	5366.4
12.5°	8668.9	8404.9	7779.6	7087.5	6365.1	5727.6	5147.9	4729.1	4449.8	4386.1	4291.9
15°	8644.6	8316.8	7530.7	6662.5	5745.9	4968.8	4358.7	3870.1	3615.1	3445.1	3448.2
17.5°	8623.4	8216.6	7251.4	6198.1	5211.6	4316.3	3642.4	3202.3	2968.6	2877.5	2868.4
20°	8593.0	8098.3	6929.7	5709.5	4601.5	3721.3	3111.3	2783.4	2625.6	2549.7	2546.6
22.5°	8580.9	7982.9	6614.0	5211.6	4061.3	3263.0	2759.1	2528.5	2428.2	2376.6	2376.6
25°	8611.3	7901.0	6283.2	4738.2	3581.7	2871.4	2516.3	2358.5	2300.8	2273.4	2264.4
27.5°	8705.3	7864.5	5955.3	4264.6	3141.6	2604.3	2352.4	2243.1	2200.6	2179.4	2182.4
30°	8884.5	7861.6	5633.6	3797.2	2813.8	2400.9	2221.8	2146.0	2112.6	2100.5	2097.4
32.5°	9172.8	7928.3	5317.9	3411.7	2537.5	2231.0	2100.5	2045.8	2030.6	2021.5	2018.5
35°	9661.5	8116.5	5005.2	3059.7	2325.0	2079.2	1985.1	1957.8	1936.5	1945.7	1948.7
37.5°	10320.2	8441.3	4707.8	2783.4	2164.2	1966.9	1888.0	1863.7	1851.6	1860.6	1869.8
40°	11203.4	8908.7	4458.9	2561.8	2048.9	1872.8	1803.0	1781.7	1769.6	1784.8	1787.8
42.5°	12177.8	9449.0	4252.5	2388.8	1954.8	1793.9	1727.1	1702.8	1693.7	1702.8	1705.8
45°	13179.5	10077.3	4146.3	2264.4	1875.8	1736.2	1666.4	1639.1	1617.8	1611.7	1620.9
47.5°	14165.9	10623.7	4143.2	2188.5	1812.1	1684.6	1608.8	1578.4	1551.0	1535.9	1532.9
50°	14970.3	11057.8	4216.1	2155.1	1757.4	1626.9	1551.0	1520.7	1484.3	1454.0	1460.0
52.5°	15577.3	11340.0	4249.5	2139.9	1727.1	1566.2	1490.4	1463.0	1420.5	1381.1	1381.1
55°	15968.9	11406.8	4167.5	2124.7	1702.8	1502.5	1420.5	1396.2	1353.7	1314.3	1314.3
57.5°	16102.5	11200.4	3873.1	2088.3	1678.5	1447.8	1350.8	1329.5	1296.1	1256.6	1250.5
60°	15792.9	10502.3	3357.1	1979.0	1630.0	1390.2	1274.8	1265.7	1253.6	1220.2	1217.2
62.5°	14600.0	9021.0	2795.5	1836.4	1548.0	1329.5	1205.0	1220.2	1229.3	1211.1	1208.1
65°	12614.8	7324.3	2388.8	1639.1	1438.8	1244.5	1129.2	1168.6	1192.9	1192.9	1186.8
67.5°	10232.1	5624.4	2012.5	1469.1	1302.1	1129.2	1044.1	1074.5	1092.8	1086.6	1101.8
70°	7272.7	3809.4	1639.1	1274.8	1129.2	998.6	934.9	934.9	922.8	916.7	916.7
72.5°	3527.0	2176.3	1329.5	1065.4	962.2	852.9	801.3	780.1	755.8	752.8	737.6
73°	2947.3	1951.7	1268.8	1026.0	922.8	831.7	774.0	740.6	725.4	713.3	710.3
75°	1793.9	1481.3	1059.3	865.1	786.1	716.4	664.8	634.4	619.2	610.1	607.1
77.5°	1180.8	1104.9	822.5	661.7	601.0	558.5	537.2	506.9	497.8	485.6	485.6
80°	880.2	843.8	588.9	467.5	431.0	394.6	388.5	382.4	358.1	343.0	336.9
82.5°	567.6	601.0	400.7	312.7	273.2	242.8	245.9	254.9	230.7	209.5	203.3
85°	403.7	434.0	242.8	142.7	115.3	100.1	112.3	100.1	103.2	82.0	66.8
87.5°	66.8	115.3	42.5	18.2	9.1	6.1	0.0	0.0	0.0	0.0	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)