

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: P530208

Luminaire Tested: **GALN-SA5B-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19193 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 204
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

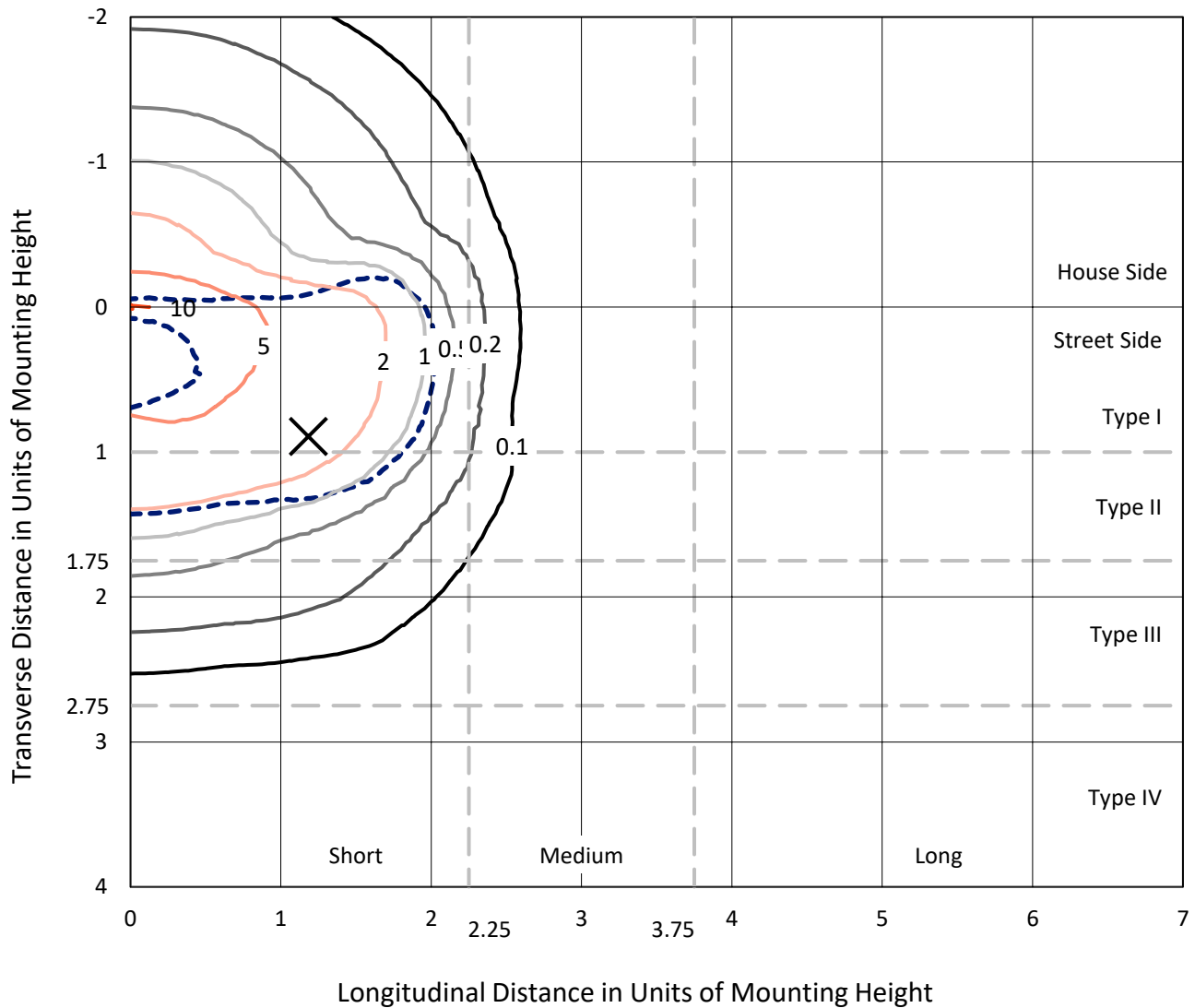


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

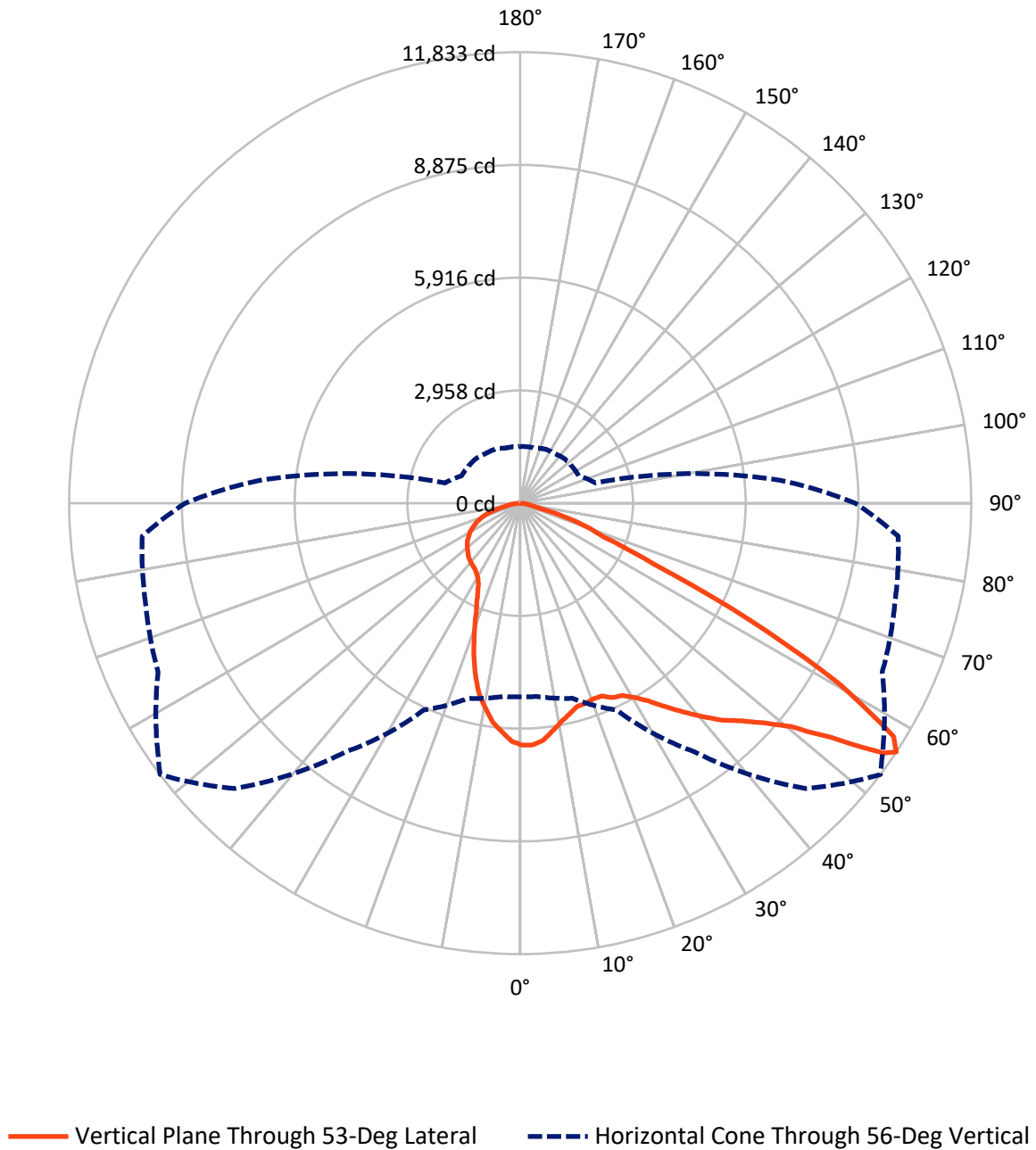


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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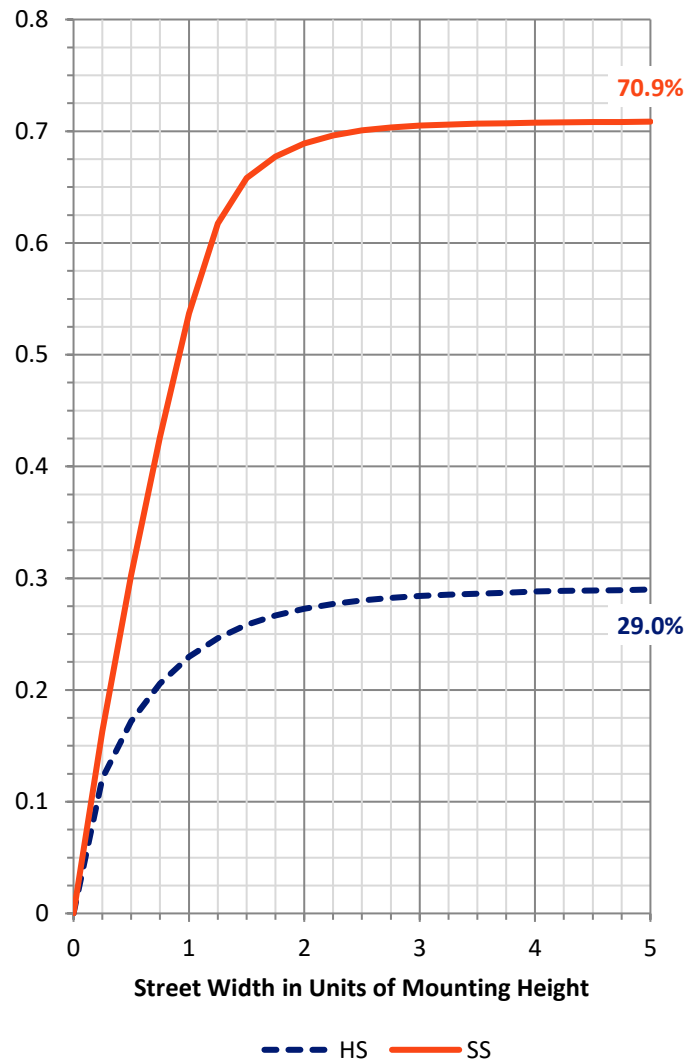
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5600.9	0.0	5600.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13592.1	0.0	13592.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	19193.0	0.0	19193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	2.9
10°-20°	1404.0	7.3
20°-30°	2070.3	10.8
30°-40°	2958.0	15.4
40°-50°	4071.3	21.2
50°-60°	4811.2	25.1
60°-70°	2564.1	13.4
70°-80°	650.5	3.4
80°-90°	101.4	0.5
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°	19193.0	100.0
0°-180°	19193.0	100.0

Coefficient of Utilization



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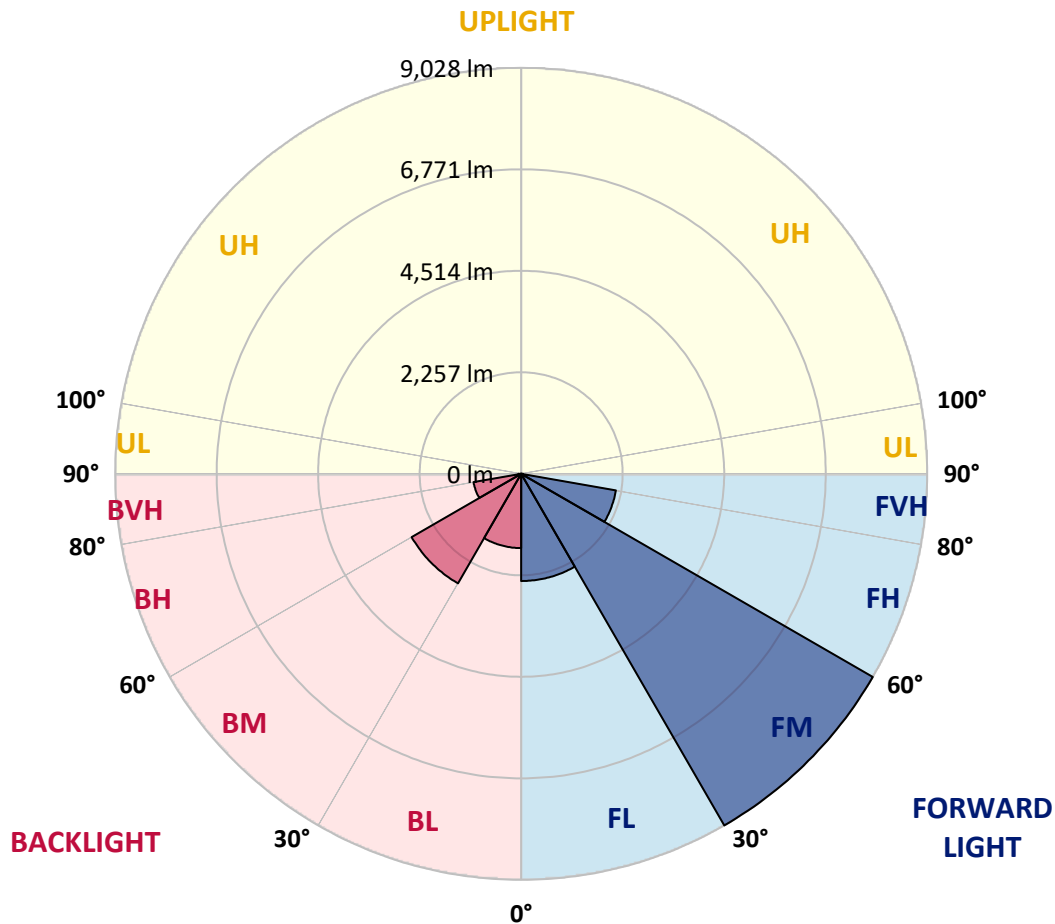
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2384.5	12.4			
FM	(30°-60°)	9028.0	47.0			
FH	(60°-80°)	2138.8	11.1			G2/5000
FVH	(80°-90°)	40.8	0.2			G1/100
BL	(0°-30°)	1651.9	8.6	B3/2500		
BM	(30°-60°)	2812.6	14.7	B3/5000		
BH	(60°-80°)	1075.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	60.7	0.3			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8
2.5°	6271.0	6216.8	6248.9	6236.5	6337.5	6367.0	6352.3	6364.6	6421.2	6394.1	6337.5
5°	5859.8	5936.2	5950.9	5987.9	6047.0	6162.7	6253.8	6278.4	6305.5	6431.1	6418.7
7.5°	5485.6	5537.3	5510.2	5618.6	5746.6	5933.7	6044.5	6064.2	6312.9	6381.8	6433.5
10°	5249.2	5197.5	5320.6	5350.2	5495.4	5709.7	5842.6	5923.9	6150.4	6423.7	6455.7
12.5°	5030.1	5012.9	5086.7	5170.4	5332.9	5554.5	5690.0	5722.0	6071.6	6359.6	6509.8
15°	4867.6	4847.9	4921.8	4983.3	5172.9	5369.9	5542.2	5633.3	5985.4	6322.7	6463.1
17.5°	4739.6	4737.1	4779.0	4889.8	5084.3	5249.2	5527.5	5532.4	5941.1	6379.3	6502.5
20°	4732.2	4729.7	4737.1	4860.2	5037.5	5239.4	5480.7	5525.0	5941.1	6340.0	6504.9
22.5°	4793.7	4754.3	4798.7	4877.5	5005.5	5256.6	5497.9	5596.4	6083.9	6534.5	6615.7
25°	4892.2	4902.1	4926.7	4953.8	5027.6	5296.0	5650.6	5731.8	6251.3	6701.9	6768.4
27.5°	5072.0	5067.0	5076.9	5091.7	5155.7	5332.9	5712.1	5921.4	6600.9	6999.8	6933.3
30°	5335.4	5318.2	5357.6	5409.3	5350.2	5451.1	5916.5	6074.0	6925.9	7300.2	7118.0
32.5°	5574.2	5638.2	5712.1	5734.3	5662.9	5682.6	6187.3	6347.3	7196.8	7669.5	7344.5
35°	5872.2	5923.9	6022.3	6091.3	6079.0	6019.9	6556.6	6768.4	7588.2	7940.3	7583.3
37.5°	6162.7	6224.2	6386.7	6591.1	6477.8	6450.7	6950.6	7125.4	7708.9	8085.6	7758.1
40°	6630.5	6628.0	6908.7	7014.6	7115.5	7068.7	7359.3	7418.4	7772.9	8053.6	7763.1
42.5°	7179.5	7145.1	7430.7	7595.6	7726.1	7731.0	7785.2	7765.5	7802.5	7891.1	7711.4
45°	7701.5	7775.4	8063.4	8358.9	8489.4	8504.2	8144.7	8107.8	7854.2	7844.3	7612.9
47.5°	8339.2	8356.4	8592.8	8981.8	9284.6	9181.2	8610.0	8528.8	8080.7	8157.0	7777.8
50°	8376.1	8504.2	8715.9	9173.8	10104.5	10077.4	9213.2	9060.6	8445.1	8600.2	8238.2
52.5°	7603.0	7573.5	7824.6	8573.1	10043.0	10968.7	10212.9	9848.5	9228.0	9109.8	8984.3
55°	5793.4	5862.3	6083.9	6839.8	8720.8	10981.0	11574.4	11276.5	10065.1	9863.2	9718.0
56°	5081.8	5091.7	5300.9	5990.3	7957.6	10589.6	11832.9	11591.6	10481.2	10173.5	9951.9
57.5°	4212.7	4156.1	4264.4	4641.1	6716.7	9762.3	11549.8	11786.2	10968.7	10508.3	10200.6
60°	3316.5	3304.2	3259.8	3328.8	4244.7	7354.3	9614.6	10146.4	10919.5	10193.2	9769.7
62.5°	2708.3	2646.8	2735.4	2833.9	2949.6	4562.3	6756.1	7068.7	8669.1	8137.3	7339.6
65°	2100.2	2070.6	2181.4	2501.5	2570.5	2897.9	3848.3	4089.6	5118.7	5027.6	4426.9
67.5°	1445.3	1450.2	1546.2	2033.7	2383.3	2353.8	2356.2	2481.8	2671.4	1984.5	1728.4
70°	915.9	913.4	965.2	1309.8	1918.0	1937.7	1839.2	1802.3	1708.7	1034.1	1095.6
72.5°	588.4	571.2	598.3	723.9	992.2	1147.3	1181.8	1204.0	989.8	812.5	881.4
75°	332.4	315.2	305.3	337.3	391.5	453.0	497.3	512.1	573.7	615.5	652.5
77.5°	100.9	91.1	110.8	147.7	194.5	261.0	317.6	327.5	386.6	435.8	472.7
80°	44.3	49.2	68.9	98.5	137.9	184.7	224.1	238.8	278.2	315.2	325.0
82.5°	27.1	29.5	46.8	66.5	96.0	130.5	160.0	165.0	204.4	233.9	241.3
85°	9.8	12.3	24.6	39.4	61.6	83.7	83.7	91.1	83.7	83.7	91.1
87.5°	0.0	0.0	2.5	4.9	4.9	7.4	9.8	9.8	12.3	14.8	17.2
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°	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8	6349.8
2.5°	6367.0	6354.7	6335.0	6263.6	6256.2	6234.1	6111.0	6091.3	6111.0	6051.9	6056.8
5°	6354.7	6391.7	6243.9	6172.5	6039.6	5943.6	5832.8	5776.1	5675.2	5611.2	5682.6
7.5°	6408.9	6394.1	6209.5	6054.3	5854.9	5611.2	5416.7	5305.9	5128.6	5079.3	5116.3
10°	6389.2	6310.4	6093.7	5889.4	5512.7	5298.5	4983.3	4678.0	4510.6	4424.4	4412.1
12.5°	6362.1	6340.0	5978.0	5625.9	5229.5	4779.0	4335.8	4047.7	3774.4	3656.2	3673.5
15°	6394.1	6207.0	5761.4	5315.7	4788.8	4197.9	3720.3	3348.5	3158.9	3082.6	3082.6
17.5°	6379.3	6143.0	5657.9	4968.6	4301.3	3602.1	3077.6	2853.6	2774.8	2774.8	2797.0
20°	6386.7	6184.8	5448.7	4621.4	3725.2	3033.3	2651.7	2570.5	2604.9	2617.2	2629.5
22.5°	6428.6	6047.0	5244.3	4239.8	3190.9	2595.1	2408.0	2410.4	2472.0	2538.4	2526.1
25°	6480.3	5992.8	4995.6	3860.6	2782.2	2380.9	2321.8	2314.4	2361.2	2395.6	2400.6
27.5°	6436.0	5899.2	4742.0	3387.9	2447.3	2238.1	2225.8	2230.7	2245.5	2314.4	2292.2
30°	6581.2	5926.3	4424.4	2991.5	2262.7	2191.3	2176.5	2169.1	2191.3	2211.0	2193.7
32.5°	6761.0	5830.3	4188.1	2609.8	2171.6	2156.8	2127.3	2117.4	2129.7	2110.0	2119.9
35°	6839.8	5813.1	3880.3	2336.5	2100.2	2087.9	2070.6	2068.2	2070.6	2053.4	2038.6
37.5°	6884.1	5894.3	3528.2	2211.0	2055.9	2068.2	2028.8	2023.9	1979.5	1989.4	1996.8
40°	6960.4	5768.7	3242.6	2090.3	2028.8	2004.2	1969.7	1962.3	1932.8	1915.5	1932.8
42.5°	6849.6	5731.8	2961.9	2038.6	1989.4	1962.3	1937.7	1895.8	1886.0	1871.2	1861.4
45°	6761.0	5520.1	2710.8	1974.6	1942.6	1927.8	1881.1	1836.7	1799.8	1814.6	1792.4
47.5°	6827.5	5446.2	2462.1	1920.5	1878.6	1861.4	1814.6	1780.1	1743.2	1725.9	1721.0
50°	7093.4	5584.1	2252.8	1881.1	1824.4	1814.6	1753.0	1713.6	1679.2	1666.9	1671.8
52.5°	7728.6	5960.8	2110.0	1799.8	1772.7	1728.4	1693.9	1644.7	1622.5	1583.1	1607.8
55°	8533.7	6573.9	2073.1	1723.5	1708.7	1669.3	1622.5	1585.6	1543.7	1511.7	1504.4
56°	8792.2	6866.8	2043.6	1693.9	1669.3	1647.2	1585.6	1563.4	1497.0	1489.6	1484.7
57.5°	9001.5	7125.4	2048.5	1637.3	1612.7	1593.0	1556.1	1501.9	1457.6	1430.5	1442.8
60°	8528.8	6669.9	1954.9	1551.1	1546.2	1509.3	1457.6	1433.0	1378.8	1346.8	1339.4
62.5°	6340.0	4527.8	1585.6	1440.3	1437.9	1398.5	1339.4	1312.3	1302.5	1258.1	1258.1
65°	3651.3	2838.8	1371.4	1349.2	1329.5	1290.1	1231.1	1208.9	1184.3	1169.5	1157.2
67.5°	1558.5	1472.3	1245.8	1243.4	1221.2	1172.0	1112.9	1078.4	1046.4	1016.9	1031.6
70°	1130.1	1147.3	1125.2	1112.9	1085.8	1024.2	972.5	930.7	881.4	861.7	876.5
72.5°	896.2	933.1	965.2	967.6	935.6	864.2	807.6	750.9	696.8	669.7	682.0
75°	679.5	704.2	736.2	743.6	696.8	647.5	593.4	534.3	492.4	460.4	465.3
77.5°	490.0	485.0	514.6	509.7	487.5	453.0	403.8	349.6	302.8	273.3	275.8
80°	334.8	342.2	359.5	357.0	329.9	307.8	270.8	226.5	192.0	167.4	162.5
82.5°	233.9	246.2	261.0	248.7	226.5	204.4	177.3	145.3	118.2	98.5	93.6
85°	83.7	96.0	110.8	118.2	125.6	120.6	100.9	81.2	59.1	49.2	46.8
87.5°	17.2	19.7	22.2	22.2	22.2	19.7	17.2	17.2	14.8	7.4	7.4
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)