

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: P530442

Luminaire Tested: **GALN-SA5C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530442
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-SA5C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 23714 lumens
Efficiency: N/A
Efficacy: 88.2 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): 269
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

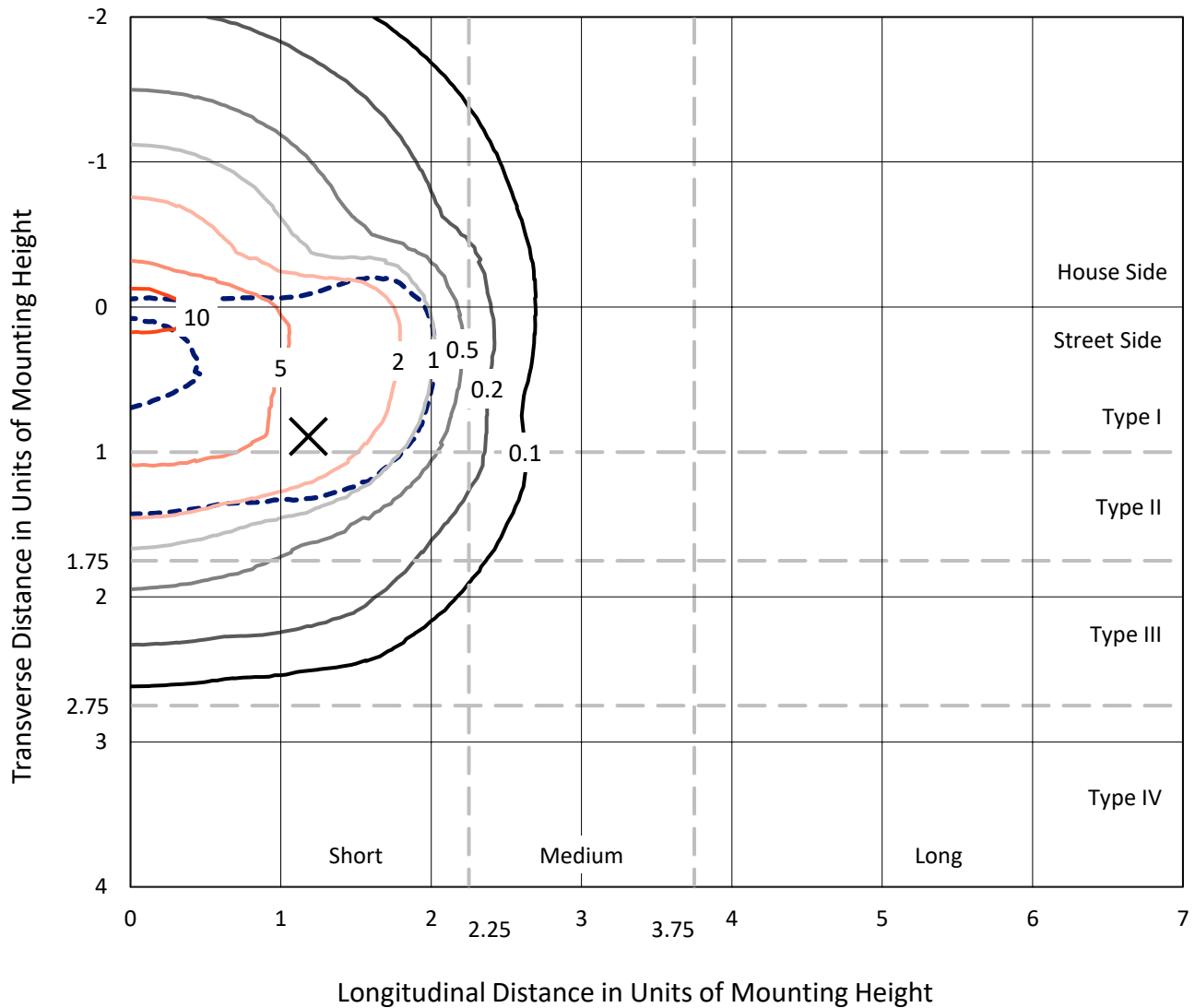


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

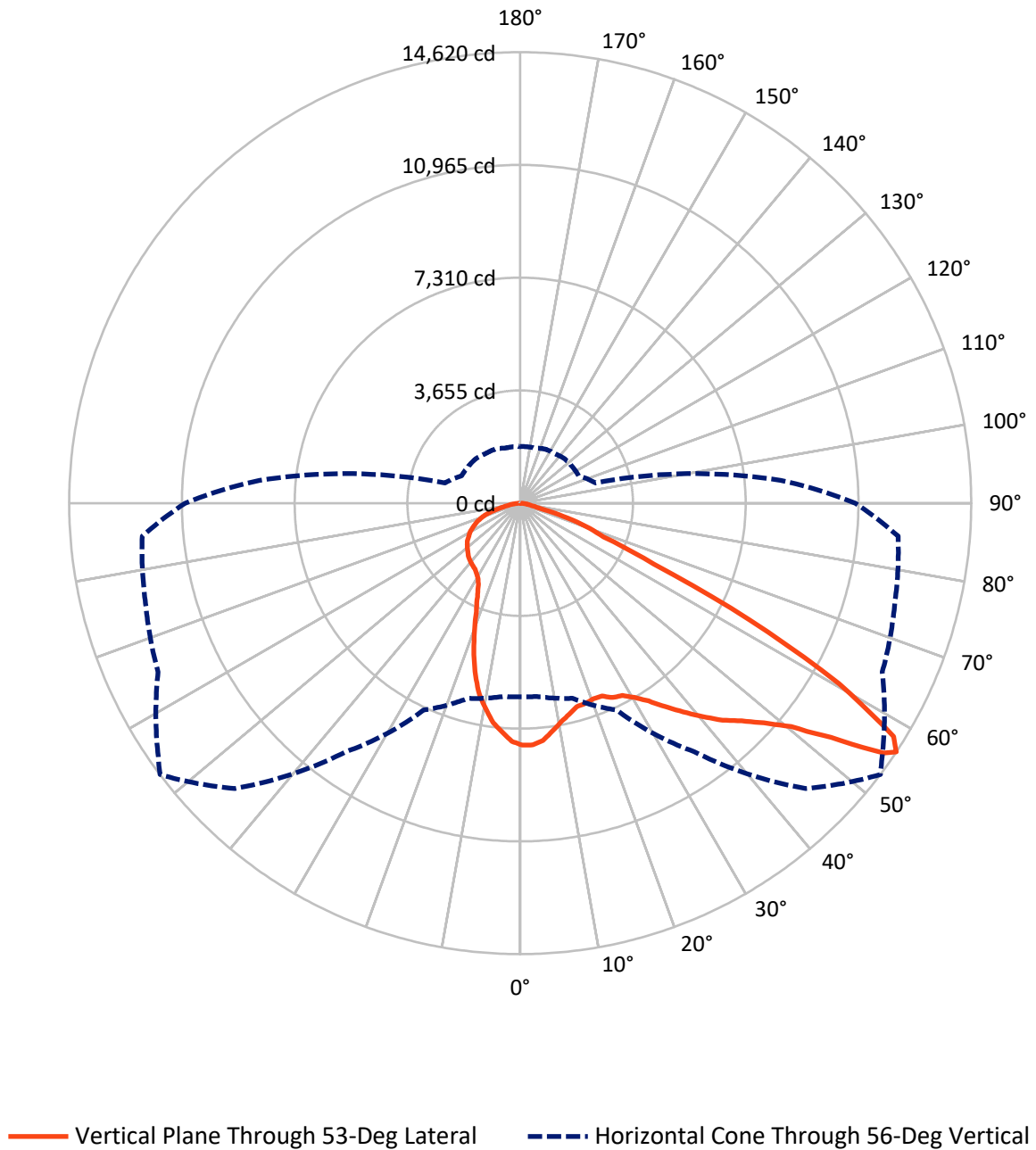


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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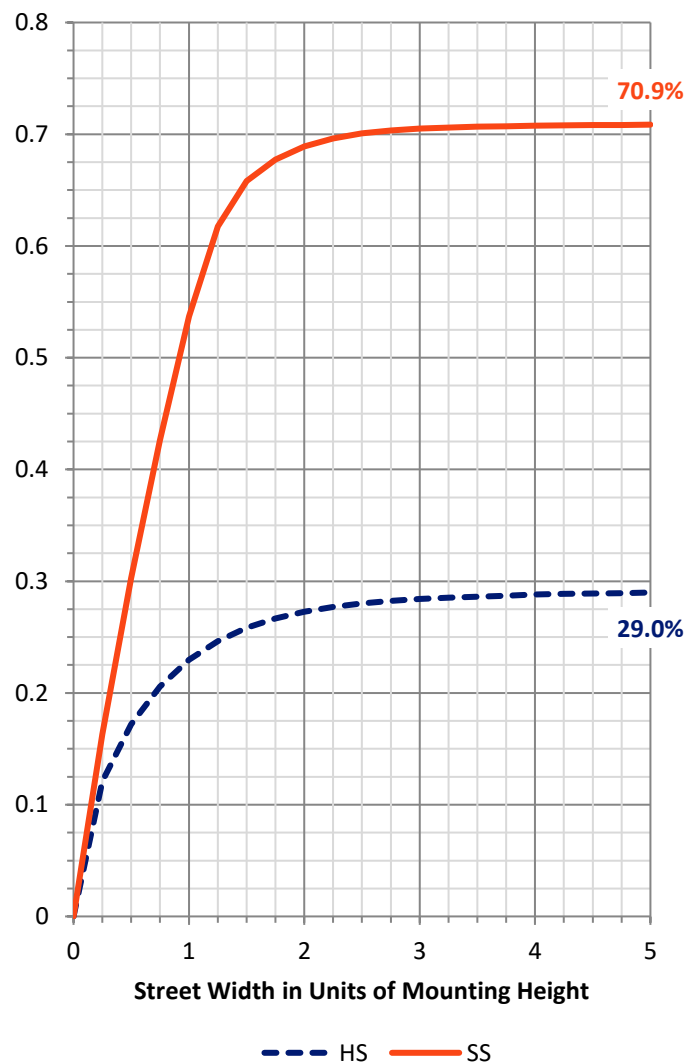
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6920.3	0.0	6920.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	16793.7	0.0	16793.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	23714.0	0.0	23714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.5	2.9
10°-20°	1734.7	7.3
20°-30°	2558.0	10.8
30°-40°	3654.8	15.4
40°-50°	5030.4	21.2
50°-60°	5944.5	25.1
60°-70°	3168.0	13.4
70°-80°	803.7	3.4
80°-90°	125.3	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°	23714.0	100.0
0°-180°	23714.0	100.0

Coefficient of Utilization



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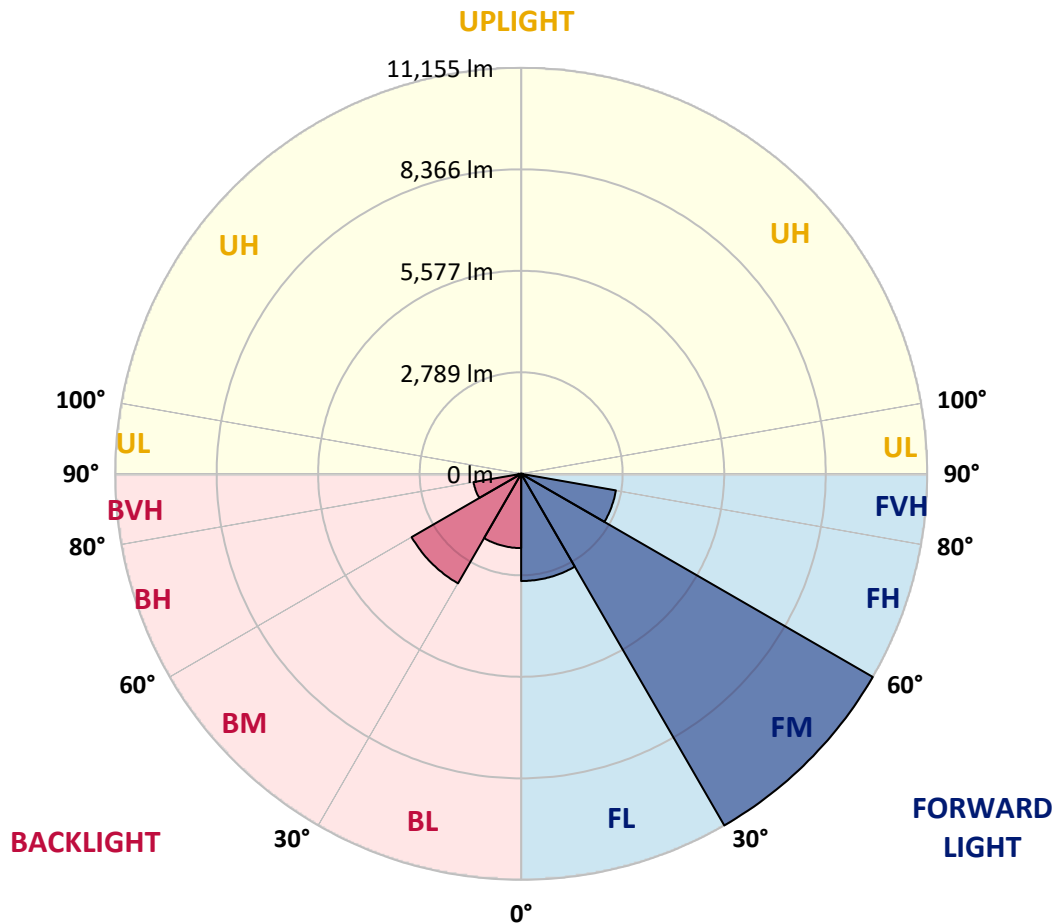
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2946.1	12.4			
FM	(30°-60°)	11154.6	47.0			
FH	(60°-80°)	2642.6	11.1			G2/5000
FVH	(80°-90°)	50.4	0.2			G1/100
BL	(0°-30°)	2041.1	8.6	B3/2500		
BM	(30°-60°)	3475.1	14.7	B3/5000		
BH	(60°-80°)	1329.1	5.6	B3/2500		G3/2500
BVH	(80°-90°)	74.9	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°	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5
2.5°	7748.2	7681.3	7720.8	7705.6	7830.3	7866.8	7848.6	7863.8	7933.7	7900.3	7830.3
5°	7240.2	7334.5	7352.7	7398.3	7471.3	7614.3	7726.9	7757.3	7790.8	7945.9	7930.7
7.5°	6777.8	6841.6	6808.2	6942.0	7100.2	7331.4	7468.3	7492.6	7799.9	7885.1	7949.0
10°	6485.7	6421.8	6573.9	6610.4	6789.9	7054.6	7218.9	7319.2	7599.1	7936.8	7976.3
12.5°	6215.0	6193.7	6284.9	6388.4	6589.1	6862.9	7030.2	7069.8	7501.8	7857.7	8043.3
15°	6014.2	5989.9	6081.1	6157.2	6391.4	6634.8	6847.7	6960.3	7395.3	7812.1	7985.5
17.5°	5856.0	5853.0	5904.7	6041.6	6281.9	6485.7	6829.5	6835.6	7340.5	7882.0	8034.1
20°	5846.9	5843.8	5853.0	6005.1	6224.1	6473.5	6771.7	6826.4	7340.5	7833.4	8037.2
22.5°	5922.9	5874.3	5929.0	6026.4	6184.5	6494.8	6793.0	6914.6	7517.0	8073.7	8174.1
25°	6044.6	6056.8	6087.2	6120.7	6211.9	6543.5	6981.6	7082.0	7723.8	8280.5	8362.7
27.5°	6266.7	6260.6	6272.8	6291.0	6370.1	6589.1	7057.6	7316.2	8155.8	8648.6	8566.5
30°	6592.2	6570.9	6619.6	6683.5	6610.4	6735.2	7310.1	7504.8	8557.4	9019.8	8794.7
32.5°	6887.3	6966.4	7057.6	7085.0	6996.8	7021.1	7644.7	7842.5	8892.0	9476.1	9074.5
35°	7255.4	7319.2	7440.9	7526.1	7510.9	7437.9	8101.1	8362.7	9375.7	9810.7	9369.6
37.5°	7614.3	7690.4	7891.2	8143.6	8003.7	7970.3	8587.8	8803.8	9524.8	9990.2	9585.6
40°	8192.3	8189.3	8536.1	8666.9	8791.6	8733.8	9092.8	9165.8	9603.8	9950.6	9591.7
42.5°	8870.7	8828.1	9181.0	9384.8	9546.0	9552.1	9619.1	9594.7	9640.4	9749.9	9527.8
45°	9515.6	9606.9	9962.8	10327.9	10489.1	10507.3	10063.2	10017.6	9704.2	9692.1	9406.1
47.5°	10303.5	10324.8	10616.9	11097.5	11471.7	11343.9	10638.2	10537.8	9984.1	10078.4	9609.9
50°	10349.2	10507.3	10769.0	11334.8	12484.7	12451.2	11383.5	11194.9	10434.3	10626.0	10178.8
52.5°	9393.9	9357.4	9667.7	10592.5	12408.6	13552.5	12618.6	12168.3	11401.7	11255.7	11100.6
55°	7158.0	7243.2	7517.0	8450.9	10775.0	13567.7	14300.8	13932.7	12436.0	12186.6	12007.1
56°	6278.9	6291.0	6549.6	7401.4	9832.0	13084.0	14620.2	14322.1	12950.1	12569.9	12296.1
57.5°	5205.0	5135.0	5268.9	5734.3	8298.8	12061.8	14270.4	14562.4	13552.5	12983.6	12603.3
60°	4097.7	4082.5	4027.7	4112.9	5244.5	9086.7	11879.3	12536.4	13491.6	12594.2	12071.0
62.5°	3346.3	3270.2	3379.8	3501.4	3644.4	5637.0	8347.5	8733.8	10711.2	10054.1	9068.4
65°	2594.9	2558.4	2695.3	3090.8	3175.9	3580.5	4754.8	5052.9	6324.5	6211.9	5469.7
67.5°	1785.7	1791.8	1910.4	2512.8	2944.7	2908.2	2911.3	3066.4	3300.7	2451.9	2135.5
70°	1131.7	1128.6	1192.5	1618.4	2369.8	2394.1	2272.4	2226.8	2111.2	1277.7	1353.7
72.5°	727.1	705.8	739.2	894.4	1226.0	1417.6	1460.2	1487.6	1222.9	1003.9	1089.1
75°	410.7	389.4	377.2	416.8	483.7	559.7	614.5	632.8	708.8	760.5	806.2
77.5°	124.7	112.6	136.9	182.5	240.3	322.5	392.4	404.6	477.6	538.4	584.1
80°	54.8	60.8	85.2	121.7	170.4	228.2	276.8	295.1	343.8	389.4	401.6
82.5°	33.5	36.5	57.8	82.1	118.6	161.2	197.7	203.8	252.5	289.0	298.1
85°	12.2	15.2	30.4	48.7	76.1	103.4	103.4	112.6	103.4	103.4	112.6
87.5°	0.0	0.0	3.0	6.1	6.1	9.1	12.2	12.2	15.2	18.3	21.3
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°	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5	7845.5
2.5°	7866.8	7851.6	7827.3	7739.1	7729.9	7702.5	7550.4	7526.1	7550.4	7477.4	7483.5
5°	7851.6	7897.2	7714.7	7626.5	7462.2	7343.6	7206.7	7136.7	7012.0	6932.9	7021.1
7.5°	7918.5	7900.3	7672.1	7480.5	7234.1	6932.9	6692.6	6555.7	6336.7	6275.8	6321.4
10°	7894.2	7796.9	7529.1	7276.7	6811.2	6546.6	6157.2	5780.0	5573.1	5466.6	5451.4
12.5°	7860.7	7833.4	7386.2	6951.2	6461.4	5904.7	5357.1	5001.2	4663.5	4517.5	4538.8
15°	7900.3	7669.1	7118.5	6567.9	5916.8	5186.7	4596.6	4137.2	3903.0	3808.7	3808.7
17.5°	7882.0	7590.0	6990.7	6138.9	5314.5	4450.6	3802.6	3525.8	3428.4	3428.4	3455.8
20°	7891.2	7641.7	6732.1	5710.0	4602.7	3747.8	3276.3	3175.9	3218.5	3233.7	3248.9
22.5°	7942.9	7471.3	6479.6	5238.5	3942.5	3206.4	2975.2	2978.2	3054.2	3136.4	3121.2
25°	8006.8	7404.4	6172.4	4770.0	3437.6	2941.7	2868.7	2859.6	2917.4	2959.9	2966.0
27.5°	7952.0	7288.8	5859.0	4185.9	3023.8	2765.3	2750.0	2756.1	2774.4	2859.6	2832.2
30°	8131.5	7322.3	5466.6	3696.1	2795.7	2707.5	2689.2	2680.1	2707.5	2731.8	2710.5
32.5°	8353.6	7203.6	5174.6	3224.6	2683.1	2664.9	2628.4	2616.2	2631.4	2607.1	2619.2
35°	8450.9	7182.4	4794.3	2886.9	2594.9	2579.7	2558.4	2555.3	2558.4	2537.1	2518.8
37.5°	8505.7	7282.7	4359.3	2731.8	2540.1	2555.3	2506.7	2500.6	2445.8	2458.0	2467.1
40°	8600.0	7127.6	4006.4	2582.7	2506.7	2476.3	2433.7	2424.5	2388.0	2366.7	2388.0
42.5°	8463.1	7082.0	3659.6	2518.8	2458.0	2424.5	2394.1	2342.4	2330.2	2312.0	2299.8
45°	8353.6	6820.3	3349.3	2439.7	2400.2	2381.9	2324.1	2269.4	2223.8	2242.0	2214.6
47.5°	8435.7	6729.1	3042.1	2372.8	2321.1	2299.8	2242.0	2199.4	2153.8	2132.5	2126.4
50°	8764.2	6899.4	2783.5	2324.1	2254.2	2242.0	2166.0	2117.3	2074.7	2059.5	2065.6
52.5°	9549.1	7364.9	2607.1	2223.8	2190.3	2135.5	2093.0	2032.1	2004.7	1956.1	1986.5
55°	10543.9	8122.4	2561.4	2129.5	2111.2	2062.5	2004.7	1959.1	1907.4	1867.8	1858.7
56°	10863.3	8484.4	2524.9	2093.0	2062.5	2035.2	1959.1	1931.7	1849.6	1840.5	1834.4
57.5°	11121.8	8803.8	2531.0	2023.0	1992.6	1968.2	1922.6	1855.7	1800.9	1767.4	1782.7
60°	10537.8	8241.0	2415.4	1916.5	1910.4	1864.8	1800.9	1770.5	1703.6	1664.0	1654.9
62.5°	7833.4	5594.4	1959.1	1779.6	1776.6	1727.9	1654.9	1621.4	1609.3	1554.5	1554.5
65°	4511.4	3507.5	1694.4	1667.1	1642.7	1594.1	1521.0	1493.7	1463.2	1445.0	1429.8
67.5°	1925.6	1819.2	1539.3	1536.3	1508.9	1448.0	1375.0	1332.4	1292.9	1256.4	1274.6
70°	1396.3	1417.6	1390.2	1375.0	1341.6	1265.5	1201.6	1149.9	1089.1	1064.7	1083.0
72.5°	1107.3	1152.9	1192.5	1195.5	1156.0	1067.8	997.8	927.8	860.9	827.4	842.7
75°	839.6	870.0	909.6	918.7	860.9	800.1	733.1	660.1	608.4	568.9	575.0
77.5°	605.4	599.3	635.8	629.7	602.3	559.7	498.9	432.0	374.2	337.7	340.7
80°	413.7	422.8	444.1	441.1	407.6	380.3	334.6	279.9	237.3	206.9	200.8
82.5°	289.0	304.2	322.5	307.3	279.9	252.5	219.0	179.5	146.0	121.7	115.6
85°	103.4	118.6	136.9	146.0	155.1	149.1	124.7	100.4	73.0	60.8	57.8
87.5°	21.3	24.3	27.4	27.4	27.4	24.3	21.3	21.3	18.3	9.1	9.1
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)