

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: P532782

Luminaire Tested: **GALN-SA8A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532782
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-SA8A-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 24872 lumens
Efficiency: N/A
Efficacy: 101.9 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): 244
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

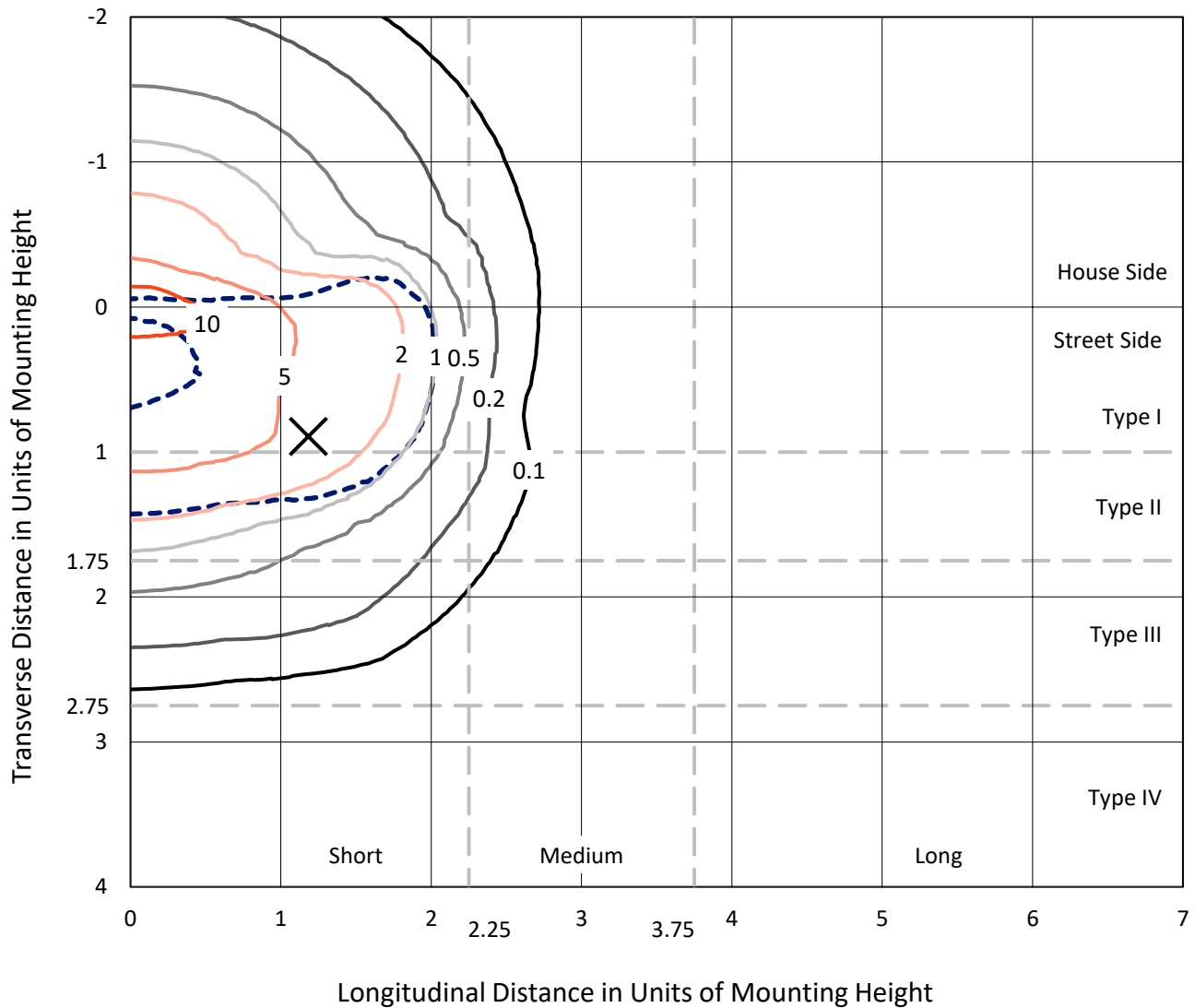


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

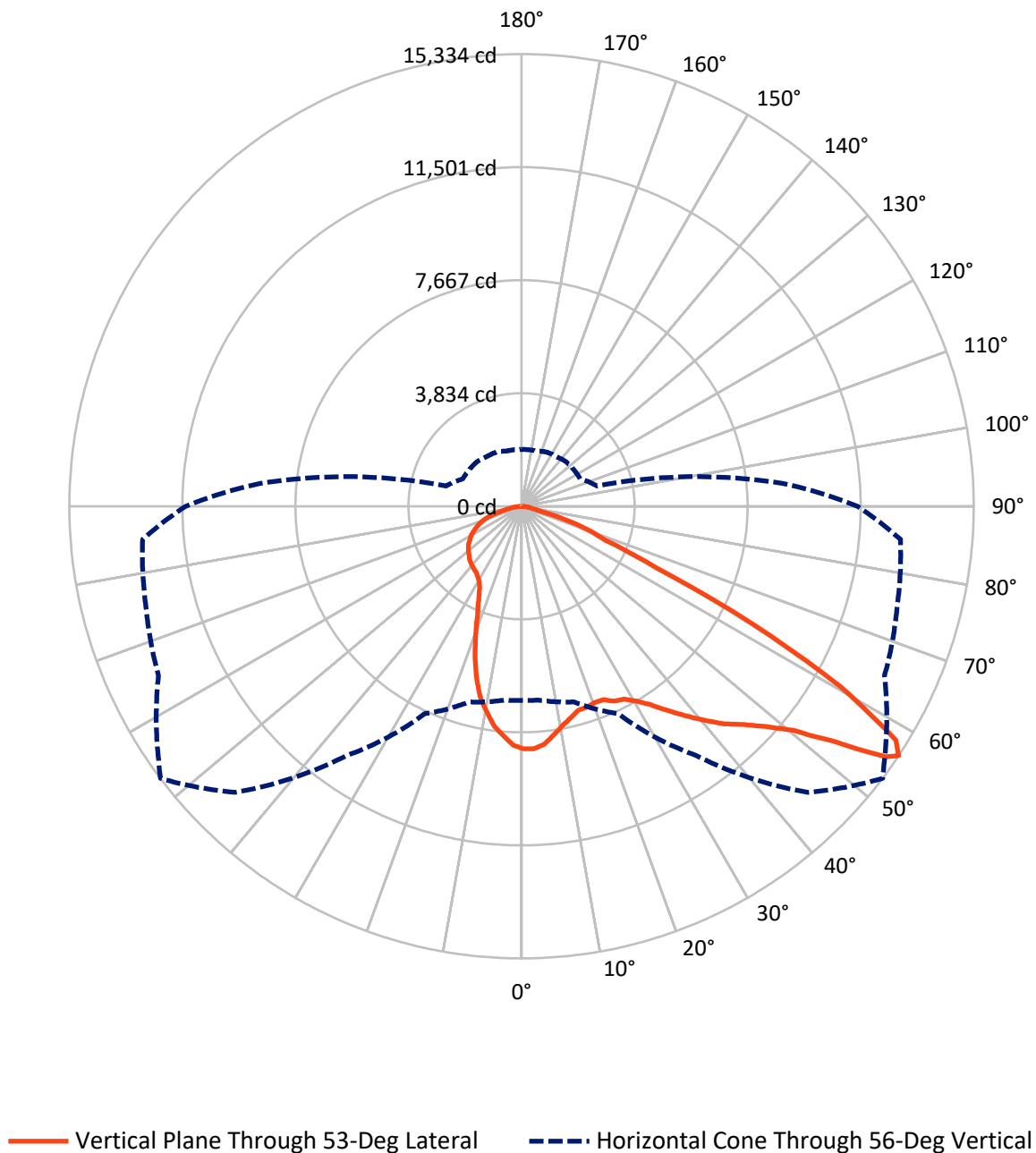


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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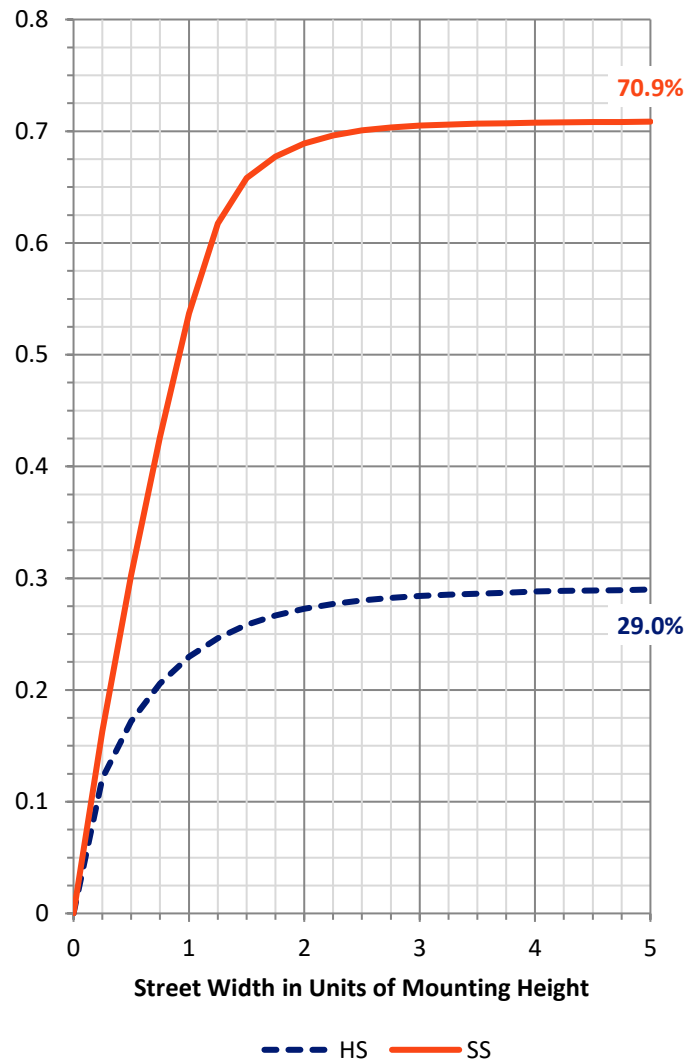
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7258.2	0.0	7258.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17613.8	0.0	17613.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	24872.0	0.0	24872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.5	2.9
10°-20°	1819.4	7.3
20°-30°	2682.9	10.8
30°-40°	3833.3	15.4
40°-50°	5276.0	21.2
50°-60°	6234.8	25.1
60°-70°	3322.7	13.4
70°-80°	843.0	3.4
80°-90°	131.4	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°	24872.0	100.0
0°-180°	24872.0	100.0

Coefficient of Utilization



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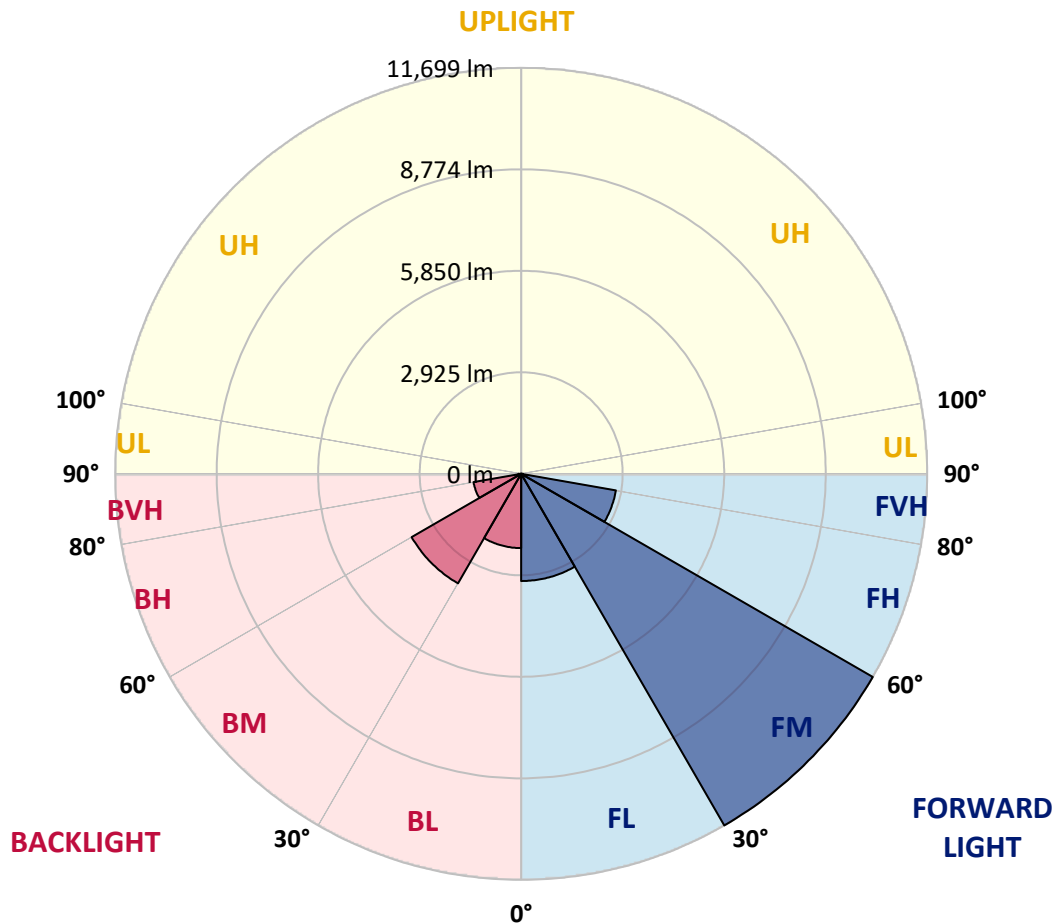
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3090.0	12.4			
FM	(30°-60°)	11699.3	47.0			
FH	(60°-80°)	2771.7	11.1			G2/5000
FVH	(80°-90°)	52.8	0.2			G1/100
BL	(0°-30°)	2140.7	8.6	B3/2500		
BM	(30°-60°)	3644.8	14.7	B3/5000		
BH	(60°-80°)	1394.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	78.6	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°	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6
2.5°	8126.5	8056.3	8097.8	8081.9	8212.7	8251.0	8231.8	8247.8	8321.2	8286.1	8212.7
5°	7593.7	7692.6	7711.8	7759.6	7836.2	7986.1	8104.2	8136.1	8171.2	8333.9	8318.0
7.5°	7108.7	7175.7	7140.6	7281.0	7446.9	7689.4	7833.0	7858.5	8180.8	8270.1	8337.1
10°	6802.4	6735.4	6895.0	6933.2	7121.5	7399.1	7571.4	7676.7	7970.2	8324.4	8365.8
12.5°	6518.5	6496.1	6591.8	6700.3	6910.9	7198.1	7373.5	7415.0	7868.1	8241.4	8436.0
15°	6307.9	6282.4	6378.1	6457.8	6703.5	6958.8	7182.1	7300.2	7756.4	8193.5	8375.4
17.5°	6142.0	6138.8	6193.0	6336.6	6588.7	6802.4	7163.0	7169.3	7699.0	8266.9	8426.5
20°	6132.4	6129.2	6138.8	6298.3	6528.0	6789.7	7102.3	7159.8	7699.0	8215.9	8429.6
22.5°	6212.2	6161.1	6218.5	6320.6	6486.6	6812.0	7124.7	7252.3	7884.0	8467.9	8573.2
25°	6339.8	6352.5	6384.5	6419.5	6515.3	6863.0	7322.5	7427.8	8101.0	8684.9	8771.0
27.5°	6572.7	6566.3	6579.1	6598.2	6681.2	6910.9	7402.3	7673.5	8554.1	9071.0	8984.8
30°	6914.1	6891.8	6942.8	7009.8	6933.2	7064.1	7667.1	7871.3	8975.2	9460.2	9224.1
32.5°	7223.6	7306.5	7402.3	7431.0	7338.5	7364.0	8018.1	8225.4	9326.2	9938.8	9517.7
35°	7609.7	7676.7	7804.3	7893.6	7877.7	7801.1	8496.7	8771.0	9833.5	10289.8	9827.1
37.5°	7986.1	8065.9	8276.5	8541.3	8394.6	8359.5	9007.2	9233.7	9989.9	10478.0	10053.7
40°	8592.4	8589.2	8952.9	9090.1	9220.9	9160.3	9536.8	9613.4	10072.8	10436.6	10060.1
42.5°	9303.9	9259.2	9629.3	9843.1	10012.2	10018.6	10088.8	10063.3	10111.1	10226.0	9993.1
45°	9980.3	10076.0	10449.3	10832.2	11001.3	11020.4	10554.6	10506.7	10178.1	10165.4	9865.4
47.5°	10806.7	10829.0	11135.3	11639.4	12031.9	11897.9	11157.6	11052.3	10471.7	10570.6	10079.2
50°	10854.5	11020.4	11294.8	11888.3	13094.4	13059.3	11939.3	11741.5	10943.9	11144.9	10675.9
52.5°	9852.7	9814.4	10139.8	11109.8	13014.6	14214.3	13234.7	12762.5	11958.5	11805.3	11642.6
55°	7507.6	7596.9	7884.0	8863.6	11301.2	14230.2	14999.2	14613.1	13043.3	12781.7	12593.4
56°	6585.5	6598.2	6869.4	7762.8	10312.1	13722.9	15334.2	15021.5	13582.5	13183.7	12896.5
57.5°	5459.2	5385.8	5526.2	6014.3	8704.0	12650.9	14967.3	15273.6	14214.3	13617.6	13218.8
60°	4297.8	4281.8	4224.4	4313.7	5500.6	9530.4	12459.4	13148.6	14150.4	13209.2	12660.4
62.5°	3509.7	3429.9	3544.8	3672.4	3822.4	5912.2	8755.1	9160.3	11234.2	10545.0	9511.3
65°	2721.6	2683.3	2826.9	3241.7	3331.0	3755.4	4987.0	5299.6	6633.3	6515.3	5736.8
67.5°	1872.9	1879.3	2003.7	2635.5	3088.5	3050.2	3053.4	3216.2	3461.8	2571.6	2239.8
70°	1186.9	1183.7	1250.7	1697.4	2485.5	2511.0	2383.4	2335.5	2214.3	1340.1	1419.8
72.5°	762.6	740.2	775.3	938.0	1285.8	1486.8	1531.5	1560.2	1282.6	1052.9	1142.2
75°	430.7	408.4	395.6	437.1	507.3	587.1	644.5	663.7	743.4	797.7	845.5
77.5°	130.8	118.1	143.6	191.4	252.1	338.2	411.6	424.4	500.9	564.7	612.6
80°	57.4	63.8	89.3	127.6	178.7	239.3	290.3	309.5	360.5	408.4	421.2
82.5°	35.1	38.3	60.6	86.1	124.4	169.1	207.4	213.8	264.8	303.1	312.7
85°	12.8	16.0	31.9	51.1	79.8	108.5	108.5	118.1	108.5	108.5	118.1
87.5°	0.0	0.0	3.2	6.4	6.4	9.6	12.8	12.8	16.0	19.1	22.3
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°	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6	8228.6
2.5°	8251.0	8235.0	8209.5	8117.0	8107.4	8078.7	7919.1	7893.6	7919.1	7842.6	7849.0
5°	8235.0	8282.9	8091.4	7998.9	7826.6	7702.2	7558.6	7485.2	7354.4	7271.4	7364.0
7.5°	8305.2	8286.1	8046.8	7845.8	7587.3	7271.4	7019.4	6875.8	6646.1	6582.3	6630.1
10°	8279.7	8177.6	7896.8	7632.0	7143.8	6866.2	6457.8	6062.2	5845.2	5733.6	5717.6
12.5°	8244.6	8215.9	7746.9	7290.6	6776.9	6193.0	5618.7	5245.4	4891.2	4738.1	4760.4
15°	8286.1	8043.6	7466.1	6888.6	6205.8	5440.0	4821.0	4339.3	4093.6	3994.7	3994.7
17.5°	8266.9	7960.6	7332.1	6438.7	5574.0	4667.9	3988.3	3697.9	3595.8	3595.8	3624.6
20°	8276.5	8014.9	7060.9	5988.8	4827.4	3930.9	3436.3	3331.0	3375.7	3391.6	3407.6
22.5°	8330.7	7836.2	6796.0	5494.3	4135.1	3362.9	3120.4	3123.6	3203.4	3289.5	3273.6
25°	8397.7	7766.0	6473.8	5002.9	3605.4	3085.3	3008.8	2999.2	3059.8	3104.5	3110.9
27.5°	8340.3	7644.8	6145.2	4390.3	3171.5	2900.3	2884.3	2890.7	2909.9	2999.2	2970.5
30°	8528.6	7679.8	5733.6	3876.6	2932.2	2839.7	2820.5	2810.9	2839.7	2865.2	2842.9
32.5°	8761.5	7555.4	5427.3	3382.1	2814.1	2795.0	2756.7	2743.9	2759.9	2734.4	2747.1
35°	8863.6	7533.1	5028.4	3027.9	2721.6	2705.7	2683.3	2680.1	2683.3	2661.0	2641.8
37.5°	8921.0	7638.4	4572.2	2865.2	2664.2	2680.1	2629.1	2622.7	2565.3	2578.0	2587.6
40°	9019.9	7475.6	4202.1	2708.8	2629.1	2597.2	2552.5	2542.9	2504.6	2482.3	2504.6
42.5°	8876.3	7427.8	3838.3	2641.8	2578.0	2542.9	2511.0	2456.8	2444.0	2424.9	2412.1
45°	8761.5	7153.4	3512.9	2558.9	2517.4	2498.3	2437.6	2380.2	2332.4	2351.5	2322.8
47.5°	8847.6	7057.7	3190.6	2488.7	2434.5	2412.1	2351.5	2306.8	2259.0	2236.6	2230.3
50°	9192.2	7236.4	2919.4	2437.6	2364.3	2351.5	2271.7	2220.7	2176.0	2160.1	2166.4
52.5°	10015.4	7724.5	2734.4	2332.4	2297.3	2239.8	2195.2	2131.3	2102.6	2051.6	2083.5
55°	11058.7	8519.0	2686.5	2233.4	2214.3	2163.2	2102.6	2054.8	2000.5	1959.0	1949.5
56°	11393.7	8898.7	2648.2	2195.2	2163.2	2134.5	2054.8	2026.1	1939.9	1930.3	1924.0
57.5°	11664.9	9233.7	2654.6	2121.8	2089.9	2064.3	2016.5	1946.3	1888.9	1853.8	1869.7
60°	11052.3	8643.4	2533.4	2010.1	2003.7	1955.9	1888.9	1856.9	1786.8	1745.3	1735.7
62.5°	8215.9	5867.6	2054.8	1866.5	1863.3	1812.3	1735.7	1700.6	1687.8	1630.4	1630.4
65°	4731.7	3678.8	1777.2	1748.5	1722.9	1671.9	1595.3	1566.6	1534.7	1515.5	1499.6
67.5°	2019.7	1908.0	1614.5	1611.3	1582.6	1518.7	1442.2	1397.5	1356.0	1317.7	1336.9
70°	1464.5	1486.8	1458.1	1442.2	1407.1	1327.3	1260.3	1206.1	1142.2	1116.7	1135.9
72.5°	1161.4	1209.2	1250.7	1253.9	1212.4	1119.9	1046.5	973.1	902.9	867.9	883.8
75°	880.6	912.5	954.0	963.6	902.9	839.1	768.9	692.4	638.1	596.6	603.0
77.5°	634.9	628.6	666.8	660.5	631.7	587.1	523.3	453.1	392.4	354.2	357.4
80°	433.9	443.5	465.8	462.6	427.5	398.8	351.0	293.5	248.9	217.0	210.6
82.5°	303.1	319.1	338.2	322.3	293.5	264.8	229.7	188.2	153.2	127.6	121.2
85°	108.5	124.4	143.6	153.2	162.7	156.3	130.8	105.3	76.6	63.8	60.6
87.5°	22.3	25.5	28.7	28.7	28.7	25.5	22.3	22.3	19.1	9.6	9.6
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)