

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: P530676

Luminaire Tested: **GALN-SA5D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530676
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-SA5D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 26093 lumens
Efficiency: N/A
Efficacy: 84.4 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): 309
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

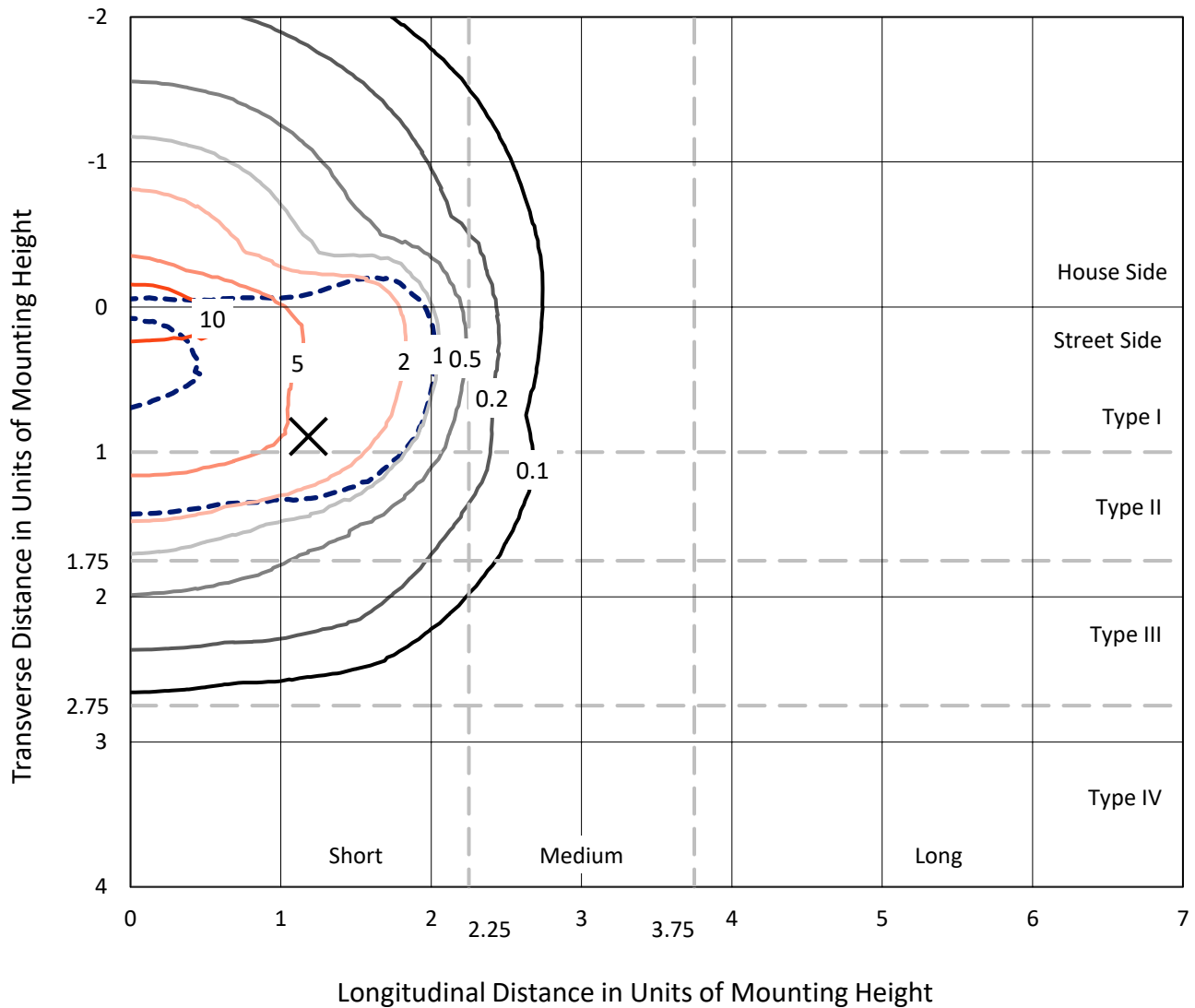


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

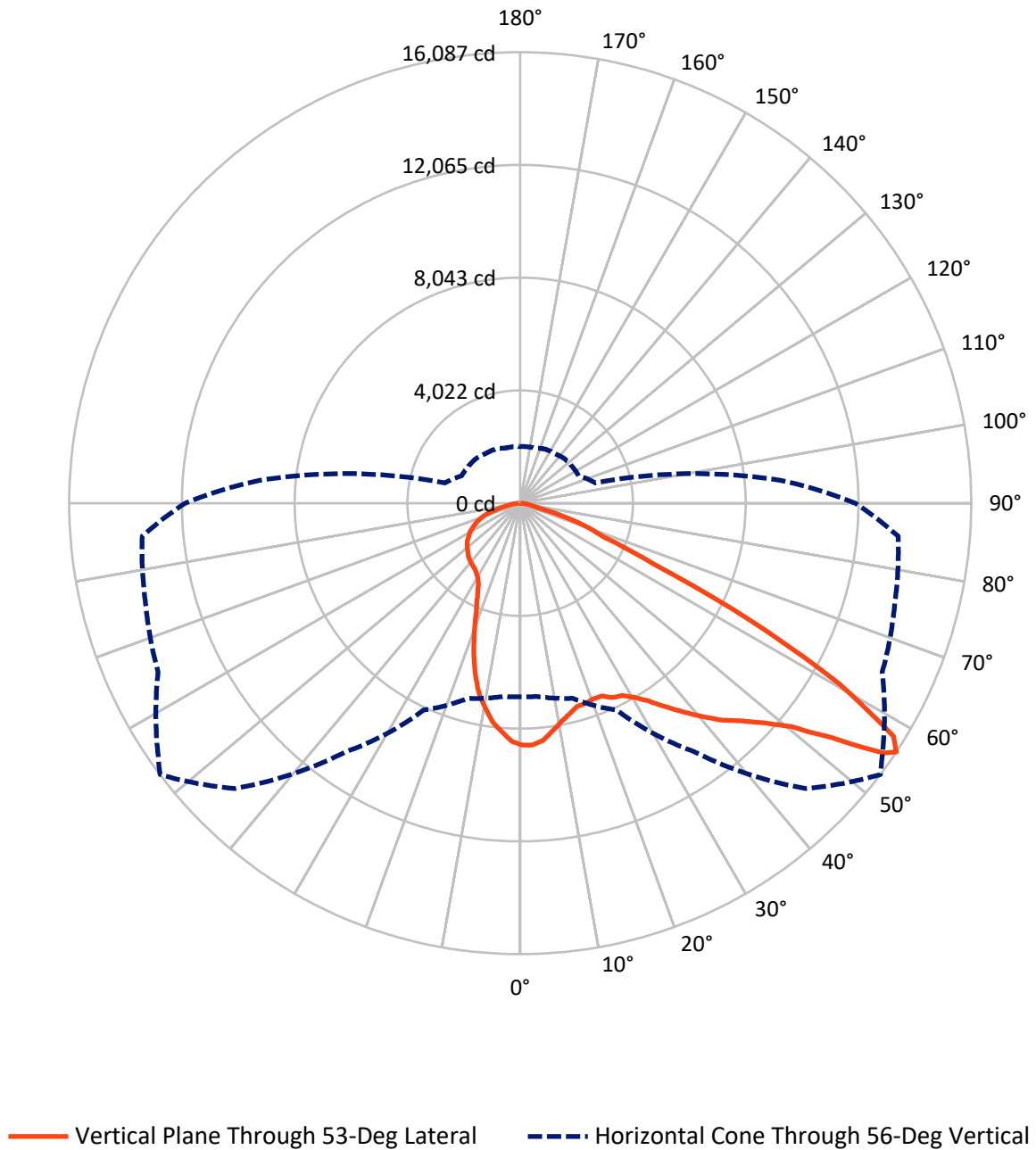


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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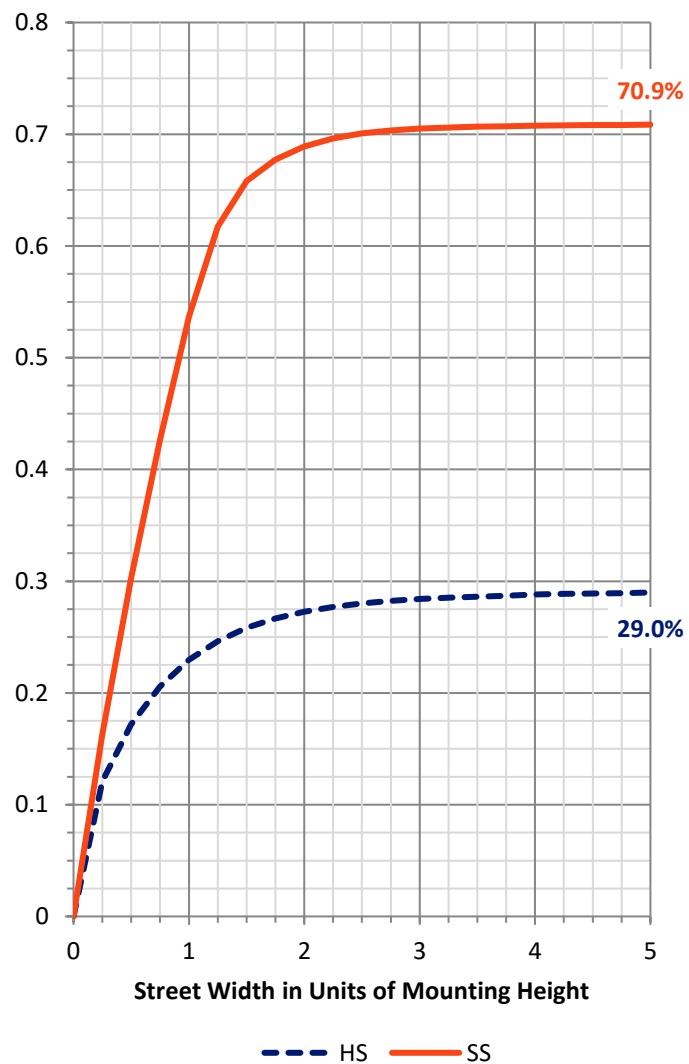
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7614.5	0.0	7614.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	18478.5	0.0	18478.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	26093.0	0.0	26093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.2	2.9
10°-20°	1908.7	7.3
20°-30°	2814.6	10.8
30°-40°	4021.5	15.4
40°-50°	5535.0	21.2
50°-60°	6540.9	25.1
60°-70°	3485.9	13.4
70°-80°	884.3	3.4
80°-90°	137.9	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°	26093.0	100.0
0°-180°	26093.0	100.0

Coefficient of Utilization



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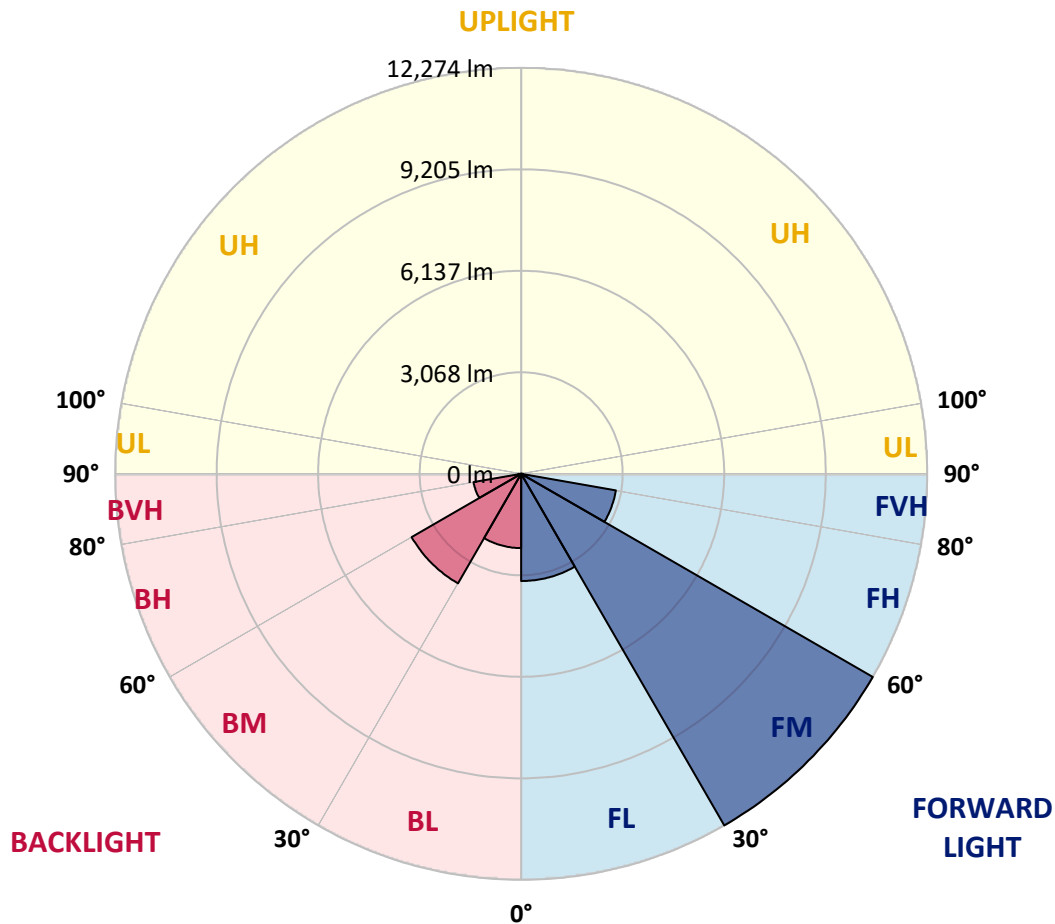
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3241.7	12.4			
FM	(30°-60°)	12273.6	47.0			
FH	(60°-80°)	2907.7	11.1			G2/5000
FVH	(80°-90°)	55.4	0.2			G1/100
BL	(0°-30°)	2245.8	8.6	B3/2500		
BM	(30°-60°)	3823.7	14.7	B3/5000		
BH	(60°-80°)	1462.5	5.6	B3/2500		G3/2500
BVH	(80°-90°)	82.5	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°	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6
2.5°	8525.5	8451.8	8495.4	8478.6	8615.9	8656.0	8635.9	8652.7	8729.7	8692.8	8615.9
5°	7966.5	8070.3	8090.3	8140.5	8220.9	8378.2	8502.0	8535.5	8572.3	8743.1	8726.3
7.5°	7457.7	7528.0	7491.2	7638.5	7812.5	8066.9	8217.5	8244.3	8582.4	8676.1	8746.4
10°	7136.4	7066.1	7233.4	7273.6	7471.1	7762.3	7943.1	8053.5	8361.5	8733.0	8776.5
12.5°	6838.5	6815.0	6915.4	7029.3	7250.2	7551.4	7735.5	7779.0	8254.4	8646.0	8850.2
15°	6617.5	6590.8	6691.2	6774.9	7032.6	7300.4	7534.7	7658.5	8137.2	8595.8	8786.6
17.5°	6443.5	6440.1	6497.0	6647.7	6912.1	7136.4	7514.6	7521.3	8076.9	8672.8	8840.1
20°	6433.4	6430.1	6440.1	6607.5	6848.5	7123.0	7451.0	7511.3	8076.9	8619.2	8843.5
22.5°	6517.1	6463.6	6523.8	6630.9	6805.0	7146.4	7474.4	7608.3	8271.1	8883.6	8994.1
25°	6651.0	6664.4	6697.9	6734.7	6835.1	7200.0	7682.0	7792.4	8498.7	9111.3	9201.6
27.5°	6895.4	6888.7	6902.1	6922.1	7009.2	7250.2	7765.7	8050.2	8974.0	9516.3	9425.9
30°	7253.5	7230.1	7283.6	7353.9	7273.6	7410.8	8043.5	8257.7	9415.9	9924.6	9676.9
32.5°	7578.2	7665.2	7765.7	7795.8	7698.7	7725.5	8411.7	8629.2	9784.1	10426.7	9984.9
35°	7983.2	8053.5	8187.4	8281.1	8264.4	8184.1	8913.8	9201.6	10316.3	10794.9	10309.6
37.5°	8378.2	8461.9	8682.8	8960.6	8806.7	8769.8	9449.3	9687.0	10480.3	10992.4	10547.2
40°	9014.2	9010.8	9392.4	9536.4	9673.6	9610.0	10005.0	10085.3	10567.3	10948.9	10553.9
42.5°	9760.6	9713.8	10102.0	10326.3	10503.7	10510.4	10584.0	10557.3	10607.5	10728.0	10483.6
45°	10470.2	10570.7	10962.3	11364.0	11541.4	11561.4	11072.7	11022.5	10677.8	10664.4	10349.7
47.5°	11337.2	11360.6	11681.9	12210.8	12622.5	12481.9	11705.4	11594.9	10985.7	11089.5	10574.0
50°	11387.4	11561.4	11849.3	12471.9	13737.2	13700.3	12525.5	12317.9	11481.1	11692.0	11199.9
52.5°	10336.3	10296.2	10637.6	11655.2	13653.5	14912.1	13884.4	13389.1	12545.5	12384.9	12214.2
55°	7876.1	7969.8	8271.1	9298.7	11856.0	14928.8	15735.5	15330.5	13683.6	13409.1	13211.6
56°	6908.8	6922.1	7206.7	8143.9	10818.4	14396.6	16086.9	15758.9	14249.3	13830.9	13529.6
57.5°	5727.2	5650.2	5797.5	6309.6	9131.3	13271.9	15702.0	16023.4	14912.1	14286.1	13867.7
60°	4508.8	4492.0	4431.8	4525.5	5770.7	9998.3	13071.1	13794.1	14845.1	13857.7	13281.9
62.5°	3682.0	3598.3	3718.8	3852.7	4010.0	6202.5	9184.9	9610.0	11785.7	11062.7	9978.2
65°	2855.2	2815.0	2965.7	3400.8	3494.5	3939.7	5231.8	5559.8	6959.0	6835.1	6018.4
67.5°	1964.8	1971.5	2102.1	2764.8	3240.2	3200.0	3203.3	3374.0	3631.8	2697.9	2349.8
70°	1245.2	1241.8	1312.1	1780.7	2607.5	2634.3	2500.4	2450.2	2323.0	1405.9	1489.5
72.5°	800.0	776.6	813.4	984.1	1348.9	1559.8	1606.7	1636.8	1345.6	1104.6	1198.3
75°	451.9	428.4	415.1	458.6	532.2	615.9	676.1	696.2	779.9	836.8	887.0
77.5°	137.2	123.8	150.6	200.8	264.4	354.8	431.8	445.2	525.5	592.5	642.7
80°	60.3	66.9	93.7	133.9	187.4	251.0	304.6	324.7	378.2	428.4	441.8
82.5°	36.8	40.2	63.6	90.4	130.5	177.4	217.6	224.3	277.8	318.0	328.0
85°	13.4	16.7	33.5	53.6	83.7	113.8	113.8	123.8	113.8	113.8	123.8
87.5°	0.0	0.0	3.3	6.7	6.7	10.0	13.4	13.4	16.7	20.1	23.4
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°	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6	8632.6
2.5°	8656.0	8639.3	8612.5	8515.4	8505.4	8475.3	8307.9	8281.1	8307.9	8227.6	8234.3
5°	8639.3	8689.5	8488.7	8391.6	8210.8	8080.3	7929.7	7852.7	7715.4	7628.4	7725.5
7.5°	8712.9	8692.8	8441.8	8230.9	7959.8	7628.4	7364.0	7213.4	6972.4	6905.4	6955.6
10°	8686.1	8579.0	8284.5	8006.7	7494.5	7203.3	6774.9	6359.8	6132.2	6015.0	5998.3
12.5°	8649.3	8619.2	8127.2	7648.5	7109.6	6497.0	5894.5	5502.9	5131.4	4970.7	4994.1
15°	8692.8	8438.5	7832.6	7226.7	6510.4	5707.1	5057.7	4552.3	4294.5	4190.8	4190.8
17.5°	8672.8	8351.4	7692.0	6754.8	5847.7	4897.0	4184.1	3879.5	3772.4	3772.4	3802.5
20°	8682.8	8408.3	7407.5	6282.8	5064.4	4123.8	3605.0	3494.5	3541.4	3558.1	3574.9
22.5°	8739.7	8220.9	7129.7	5764.0	4338.1	3528.0	3273.6	3277.0	3360.7	3451.0	3434.3
25°	8810.0	8147.2	6791.6	5248.5	3782.4	3236.8	3156.5	3146.4	3210.0	3256.9	3263.6
27.5°	8749.7	8020.0	6446.8	4605.8	3327.2	3042.7	3025.9	3032.6	3052.7	3146.4	3116.3
30°	8947.2	8056.9	6015.0	4066.9	3076.1	2979.1	2959.0	2948.9	2979.1	3005.8	2982.4
32.5°	9191.6	7926.3	5693.7	3548.1	2952.3	2932.2	2892.0	2878.6	2895.4	2868.6	2882.0
35°	9298.7	7902.9	5275.3	3176.6	2855.2	2838.5	2815.0	2811.7	2815.0	2791.6	2771.5
37.5°	9358.9	8013.3	4796.6	3005.8	2795.0	2811.7	2758.1	2751.5	2691.2	2704.6	2714.6
40°	9462.7	7842.6	4408.3	2841.8	2758.1	2724.7	2677.8	2667.8	2627.6	2604.2	2627.6
42.5°	9312.1	7792.4	4026.8	2771.5	2704.6	2667.8	2634.3	2577.4	2564.0	2543.9	2530.5
45°	9191.6	7504.6	3685.3	2684.5	2641.0	2620.9	2557.3	2497.1	2446.8	2466.9	2436.8
47.5°	9282.0	7404.1	3347.3	2610.9	2554.0	2530.5	2466.9	2420.1	2369.9	2346.4	2339.7
50°	9643.5	7591.6	3062.7	2557.3	2480.3	2466.9	2383.3	2329.7	2282.8	2266.1	2272.8
52.5°	10507.1	8103.7	2868.6	2446.8	2410.0	2349.8	2302.9	2236.0	2205.8	2152.3	2185.8
55°	11601.6	8937.2	2818.4	2343.1	2323.0	2269.4	2205.8	2155.6	2098.7	2055.2	2045.2
56°	11953.1	9335.5	2778.2	2302.9	2269.4	2239.3	2155.6	2125.5	2035.1	2025.1	2018.4
57.5°	12237.6	9687.0	2784.9	2225.9	2192.5	2165.7	2115.5	2041.8	1981.6	1944.8	1961.5
60°	11594.9	9067.7	2657.7	2108.8	2102.1	2051.9	1981.6	1948.1	1874.5	1831.0	1820.9
62.5°	8619.2	6155.6	2155.6	1958.1	1954.8	1901.2	1820.9	1784.1	1770.7	1710.5	1710.5
65°	4964.0	3859.4	1864.4	1834.3	1807.5	1754.0	1673.6	1643.5	1610.0	1590.0	1573.2
67.5°	2118.8	2001.7	1693.7	1690.4	1660.2	1593.3	1513.0	1466.1	1422.6	1382.4	1402.5
70°	1536.4	1559.8	1529.7	1513.0	1476.1	1392.5	1322.2	1265.3	1198.3	1171.5	1191.6
72.5°	1218.4	1268.6	1312.1	1315.5	1272.0	1174.9	1097.9	1020.9	947.3	910.5	927.2
75°	923.8	957.3	1000.8	1010.9	947.3	880.3	806.7	726.4	669.5	625.9	632.6
77.5°	666.1	659.4	699.6	692.9	662.8	615.9	549.0	475.3	411.7	371.5	374.9
80°	455.2	465.3	488.7	485.4	448.5	418.4	368.2	307.9	261.1	227.6	220.9
82.5°	318.0	334.7	354.8	338.1	307.9	277.8	241.0	197.5	160.7	133.9	127.2
85°	113.8	130.5	150.6	160.7	170.7	164.0	137.2	110.5	80.3	66.9	63.6
87.5°	23.4	26.8	30.1	30.1	30.1	26.8	23.4	23.4	20.1	10.0	10.0
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)