

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: P530924

Luminaire Tested: **GALN-SA6A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18811 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 182
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

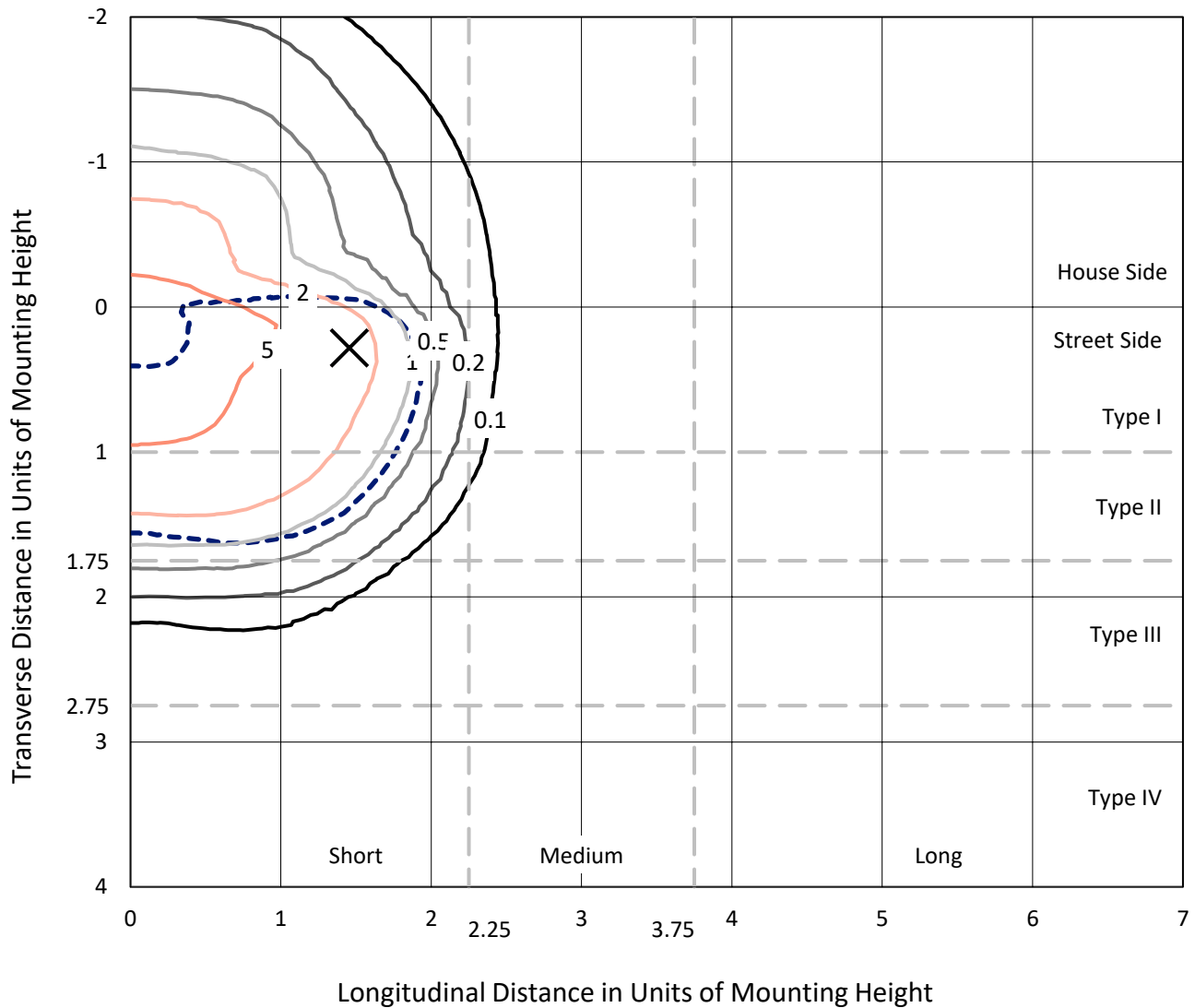


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Iso-Footcandle Lines of Horizontal Illumination

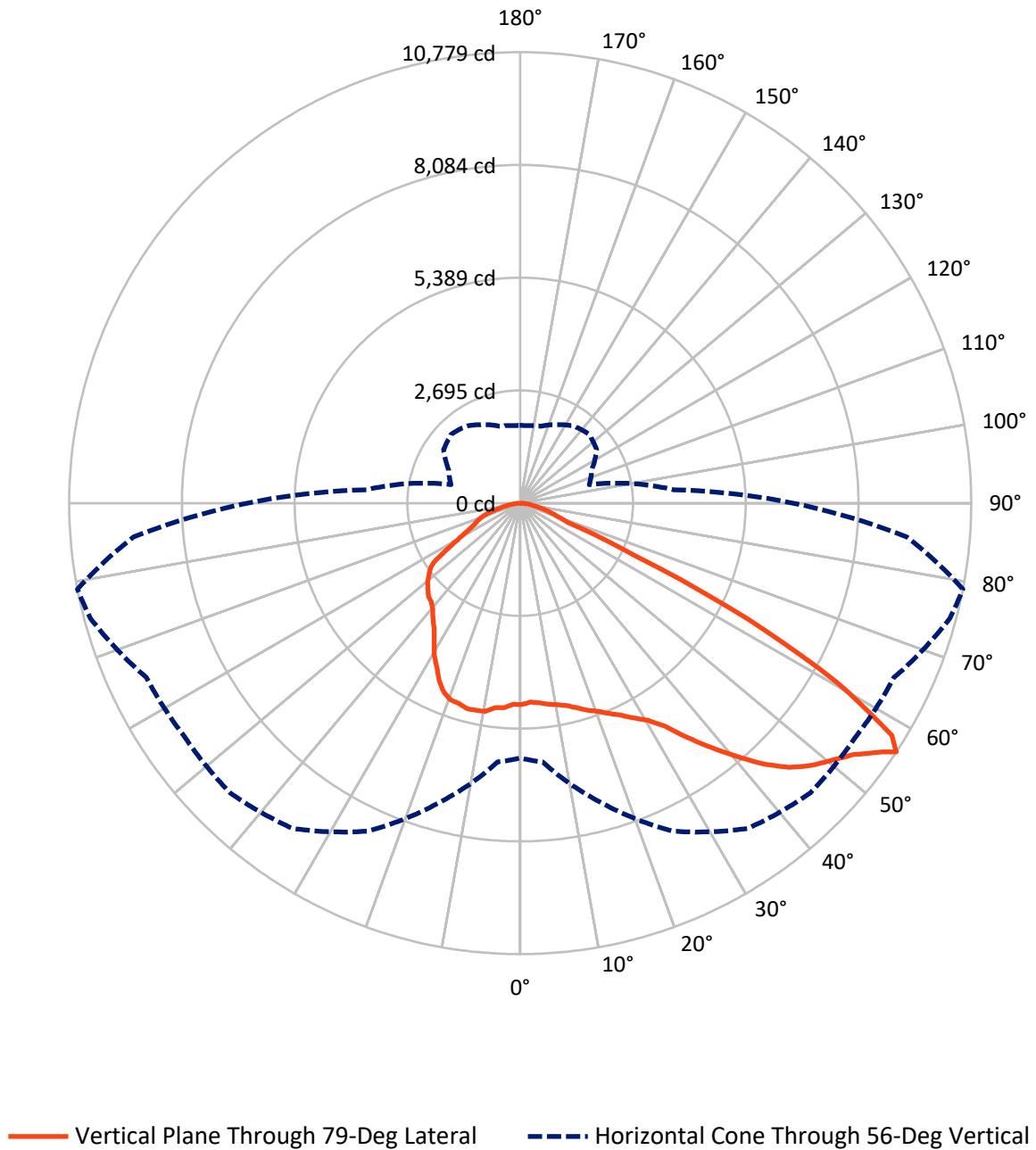
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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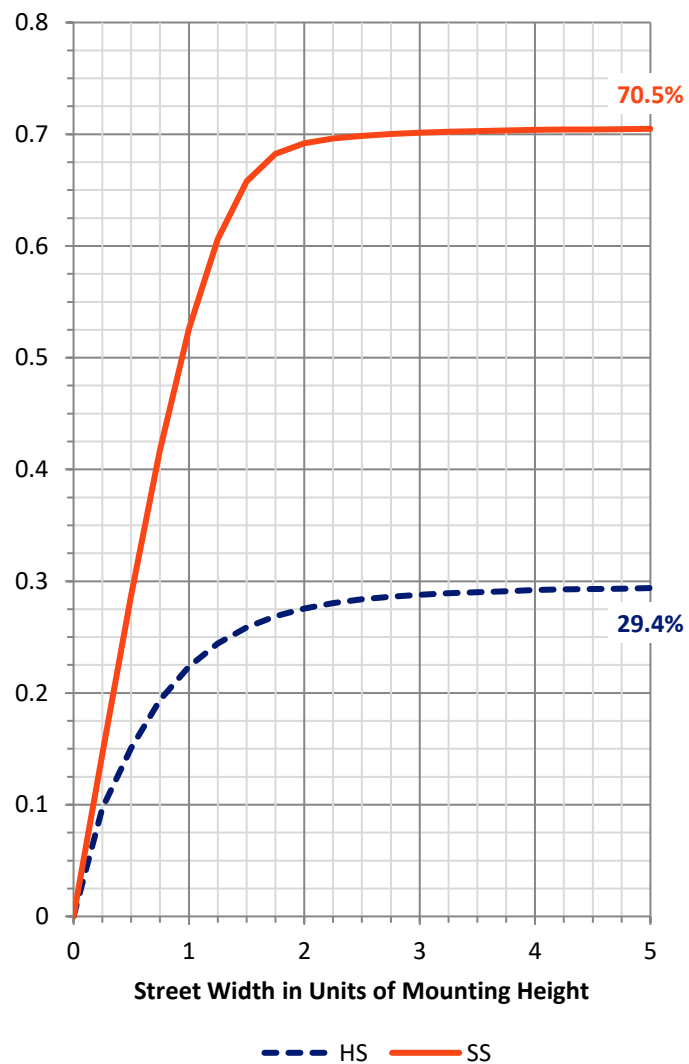
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5555.3	0.0	5555.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13255.7	0.0	13255.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	18811.0	0.0	18811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	2.3
10°-20°	1197.6	6.4
20°-30°	2048.8	10.9
30°-40°	3140.1	16.7
40°-50°	4243.8	22.6
50°-60°	4874.1	25.9
60°-70°	2221.8	11.8
70°-80°	547.8	2.9
80°-90°	99.6	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°	18811.0	100.0
0°-180°	18811.0	100.0

Coefficient of Utilization



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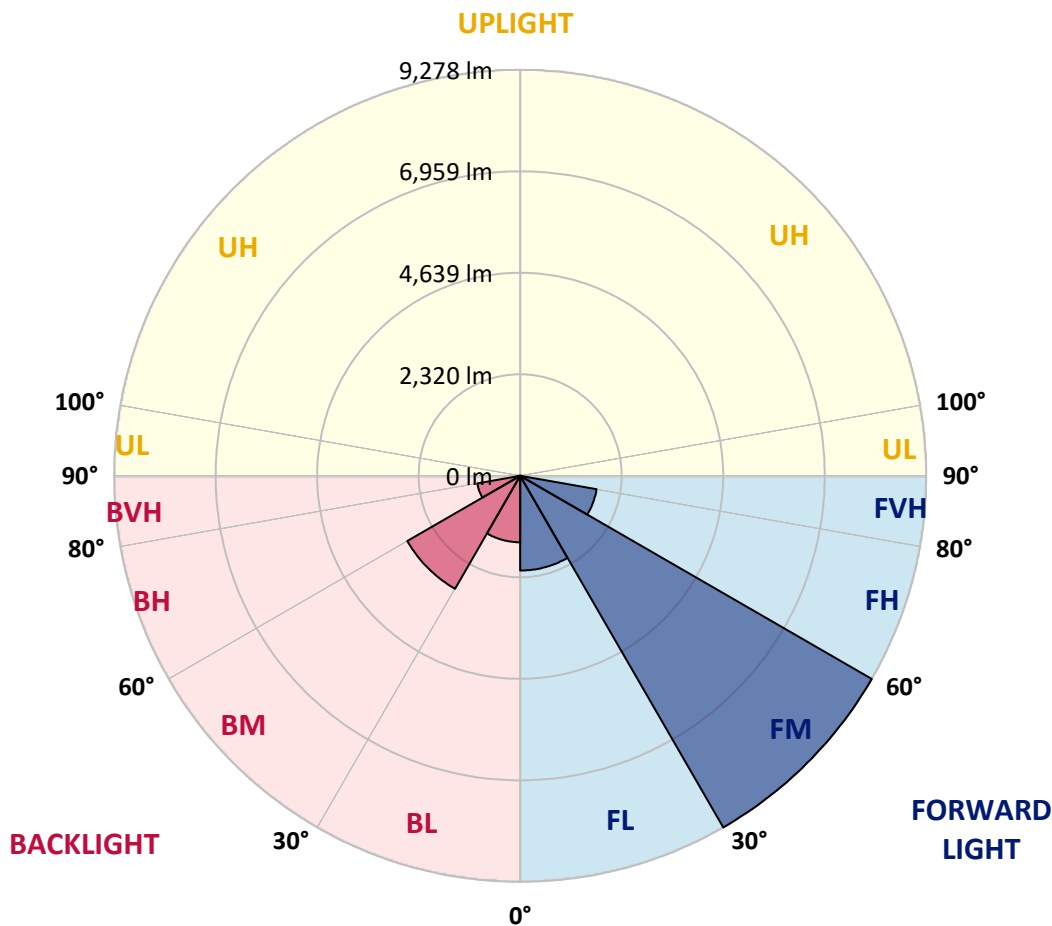
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2164.4	11.5			
FM	(30°-60°)	9278.1	49.3			
FH	(60°-80°)	1773.5	9.4			G1/1800
FVH	(80°-90°)	39.8	0.2			G1/100
BL	(0°-30°)	1519.6	8.1	B3/2500		
BM	(30°-60°)	2979.8	15.8	B3/5000		
BH	(60°-80°)	996.1	5.3	B2/1000		G2/1000
BVH	(80°-90°)	59.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0
2.5°	4578.7	4567.0	4595.1	4616.2	4641.9	4674.7	4691.1	4700.5	4782.5	4761.4	4824.7
5°	4480.3	4449.8	4470.9	4487.3	4531.8	4571.6	4616.2	4686.5	4761.4	4794.2	4871.6
7.5°	4393.6	4377.1	4372.5	4384.2	4445.1	4496.7	4574.0	4677.1	4798.9	4852.8	4897.3
10°	4250.6	4227.2	4262.3	4339.7	4356.1	4463.8	4552.9	4700.5	4806.0	4899.7	5030.9
12.5°	4187.3	4163.9	4170.9	4215.5	4330.3	4433.4	4538.8	4705.2	4927.8	4965.3	5141.0
15°	4288.1	4264.7	4271.7	4260.0	4370.1	4424.0	4590.4	4798.9	5012.2	5075.4	5262.9
17.5°	4517.7	4520.1	4489.6	4463.8	4438.1	4552.9	4667.7	4855.2	5045.0	5204.3	5344.9
20°	4955.9	4878.6	4817.7	4672.4	4632.6	4681.8	4827.0	5007.5	5178.5	5309.8	5469.1
22.5°	5293.4	5300.4	5213.7	4974.7	4888.0	4909.1	5033.3	5180.9	5368.3	5462.1	5644.8
25°	5783.1	5733.9	5640.1	5450.3	5255.9	5272.3	5363.6	5497.2	5548.8	5614.4	5813.5
27.5°	6230.6	6244.7	6059.6	5881.5	5640.1	5593.3	5757.3	5780.7	5694.0	5818.2	5886.2
30°	6685.2	6673.5	6551.7	6343.1	6106.5	6115.8	6188.5	6073.6	5954.1	6022.1	6069.0
32.5°	7156.2	7022.7	7018.0	6830.5	6650.1	6563.4	6474.3	6530.6	6345.5	6359.5	6315.0
35°	7533.5	7552.2	7444.4	7310.9	7221.8	7069.5	6825.8	6926.6	6891.4	6875.0	6682.9
37.5°	7807.6	7735.0	7788.9	7744.4	7660.0	7470.2	7217.1	7313.2	7329.6	7409.3	7186.7
40°	8032.6	8002.1	8145.1	8168.5	8109.9	7699.8	7245.3	7531.1	7777.2	7950.6	7685.8
42.5°	8140.4	8206.0	8356.0	8536.4	8405.2	7967.0	7390.5	7697.5	8245.8	8520.0	8159.1
45°	8285.7	8201.3	8423.9	8754.3	8756.6	8191.9	7531.1	7922.5	8611.4	9009.7	8482.5
47.5°	8138.0	8180.2	8409.8	8829.3	8937.1	8428.6	7910.7	8241.1	9014.4	9368.2	8782.4
50°	7807.6	7892.0	8311.4	8747.3	9073.0	8679.3	8346.6	8585.6	9387.0	9656.4	8831.6
52.5°	7463.2	7510.0	8166.1	8810.5	9133.9	9002.7	8930.0	9061.3	9841.6	9982.2	8892.5
55°	6525.9	6748.5	7685.8	8782.4	9431.5	9586.1	9529.9	9722.1	10357.1	10497.7	9225.3
56°	6092.4	6209.6	7397.6	8651.2	9490.1	9799.4	9771.3	9858.0	10631.2	10778.8	9276.8
57.5°	5291.0	5300.4	6308.0	8070.1	9269.8	9862.6	9834.5	9902.5	10577.3	10476.6	8824.6
60°	3311.0	3456.3	4292.8	6207.2	7882.6	9150.3	9309.6	8763.7	8918.3	8705.1	6865.7
62.5°	1715.2	1694.2	2249.5	3629.7	5232.4	6551.7	6699.3	6673.5	6434.5	6122.9	4484.9
65°	855.3	860.0	1176.3	1797.3	2680.7	3430.5	3842.9	3887.4	3252.4	2992.3	2127.7
67.5°	621.0	644.4	845.9	1099.0	1263.0	1413.0	1731.6	1698.8	1286.4	1223.2	1134.1
70°	482.7	503.8	686.6	838.9	761.5	761.5	829.5	857.6	916.2	942.0	972.4
72.5°	351.5	367.9	524.9	578.8	499.1	536.6	621.0	686.6	747.5	756.9	792.0
75°	241.4	255.4	344.5	318.7	299.9	370.2	454.6	515.5	560.0	583.5	604.6
77.5°	157.0	161.7	196.8	166.4	192.1	239.0	295.2	346.8	391.3	410.1	414.8
80°	70.3	77.3	84.4	105.4	133.6	171.1	210.9	253.1	281.2	288.2	302.3
82.5°	39.8	39.8	51.6	75.0	98.4	124.2	152.3	182.8	215.6	222.6	220.3
85°	21.1	21.1	30.5	44.5	60.9	72.6	70.3	72.6	77.3	89.0	86.7
87.5°	7.0	7.0	9.4	9.4	11.7	14.1	11.7	16.4	21.1	21.1	21.1
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°	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0	4813.0
2.5°	4806.0	4827.0	4798.9	4859.9	4859.9	4848.1	4789.6	4808.3	4822.4	4822.4	4834.1
5°	4897.3	4890.3	4909.1	4836.4	4791.9	4775.5	4679.4	4632.6	4592.7	4590.4	4555.2
7.5°	4948.9	4930.2	4923.1	4869.2	4672.4	4552.9	4346.7	4227.2	4201.4	4110.0	4145.2
10°	5030.9	5066.1	5030.9	4738.0	4463.8	4189.7	3988.2	3803.1	3730.4	3671.8	3636.7
12.5°	5199.6	5183.2	4979.4	4583.4	4199.1	3873.4	3573.4	3378.9	3306.3	3254.7	3250.1
15°	5342.6	5260.5	4948.9	4339.7	3786.7	3439.9	3193.8	3055.6	3022.8	3027.5	3048.5
17.5°	5391.8	5335.5	4789.6	4086.6	3479.7	3072.0	2957.2	2936.1	2966.5	3001.7	3011.0
20°	5469.1	5380.1	4723.9	3742.1	3100.1	2842.3	2835.3	2910.3	2966.5	3018.1	3025.1
22.5°	5630.8	5405.8	4510.7	3416.4	2840.0	2774.4	2842.3	2905.6	2992.3	3034.5	2997.0
25°	5677.6	5349.6	4210.8	3025.1	2676.0	2732.2	2804.8	2891.5	2952.5	2975.9	2992.3
27.5°	5717.5	5262.9	3805.4	2765.0	2624.4	2729.9	2804.8	2877.5	2910.3	2931.4	2950.1
30°	5830.0	5237.1	3453.9	2591.6	2591.6	2683.0	2779.1	2797.8	2842.3	2868.1	2900.9
32.5°	5886.2	5059.0	3093.1	2481.5	2558.8	2706.4	2713.5	2748.6	2750.9	2772.0	2736.9
35°	6033.8	4932.5	2758.0	2401.8	2572.9	2683.0	2718.1	2697.1	2582.2	2526.0	2537.7
37.5°	6141.6	4869.2	2516.6	2392.4	2575.2	2708.8	2727.5	2568.2	2448.7	2354.9	2378.4
40°	6432.2	4712.2	2333.9	2376.0	2596.3	2736.9	2685.3	2511.9	2296.4	2200.3	2183.9
42.5°	6654.8	4599.8	2219.0	2357.3	2612.7	2776.7	2664.3	2399.5	2179.2	2090.2	2113.6
45°	6912.5	4574.0	2158.1	2362.0	2640.8	2797.8	2638.5	2312.8	2078.4	2043.3	2036.3
47.5°	7003.9	4388.9	2092.5	2322.1	2633.8	2790.8	2551.8	2247.2	2041.0	2045.6	2064.4
50°	6851.6	4199.1	2043.3	2240.1	2586.9	2727.5	2415.9	2160.5	2019.9	2078.4	2111.2
52.5°	6657.1	4004.6	1942.5	2130.0	2490.9	2629.1	2352.6	2155.8	1998.8	1980.0	1987.1
55°	6715.7	3845.2	1801.9	1980.0	2336.2	2446.3	2282.3	2111.2	1947.2	1876.9	1900.4
56°	6525.9	3681.2	1710.6	1886.3	2230.8	2329.2	2247.2	2071.4	1905.0	1858.2	1858.2
57.5°	5989.3	3130.6	1591.1	1736.3	2008.1	2125.3	2179.2	2048.0	1858.2	1776.2	1778.5
60°	4417.0	2226.1	1427.0	1530.1	1663.7	1757.4	2008.1	1982.4	1741.0	1684.8	1663.7
62.5°	2722.8	1626.2	1309.9	1349.7	1417.7	1495.0	1752.7	1794.9	1616.8	1555.9	1541.8
65°	1525.4	1244.3	1220.8	1237.2	1270.0	1309.9	1455.1	1548.9	1427.0	1333.3	1328.6
67.5°	1115.4	1113.0	1131.8	1145.8	1159.9	1159.9	1195.0	1232.5	1216.1	1141.2	1134.1
70°	991.2	998.2	1012.3	1014.6	1019.3	1002.9	974.8	963.1	981.8	934.9	925.6
72.5°	817.8	841.2	857.6	860.0	834.2	813.1	775.6	735.8	721.7	712.3	710.0
75°	628.0	644.4	651.4	649.1	639.7	609.2	564.7	524.9	499.1	471.0	485.0
77.5°	424.1	447.6	459.3	459.3	445.2	398.3	377.3	346.8	321.0	290.6	295.2
80°	297.6	314.0	332.7	330.4	307.0	283.5	253.1	224.9	203.9	180.4	178.1
82.5°	222.6	232.0	241.4	236.7	220.3	196.8	175.7	150.0	126.5	110.1	110.1
85°	79.7	86.7	105.4	110.1	119.5	119.5	100.8	84.4	68.0	56.2	56.2
87.5°	23.4	23.4	25.8	25.8	23.4	25.8	21.1	23.4	25.8	16.4	16.4
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)