

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: P534198

Luminaire Tested: **GALN-SA9C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43181 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 481
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

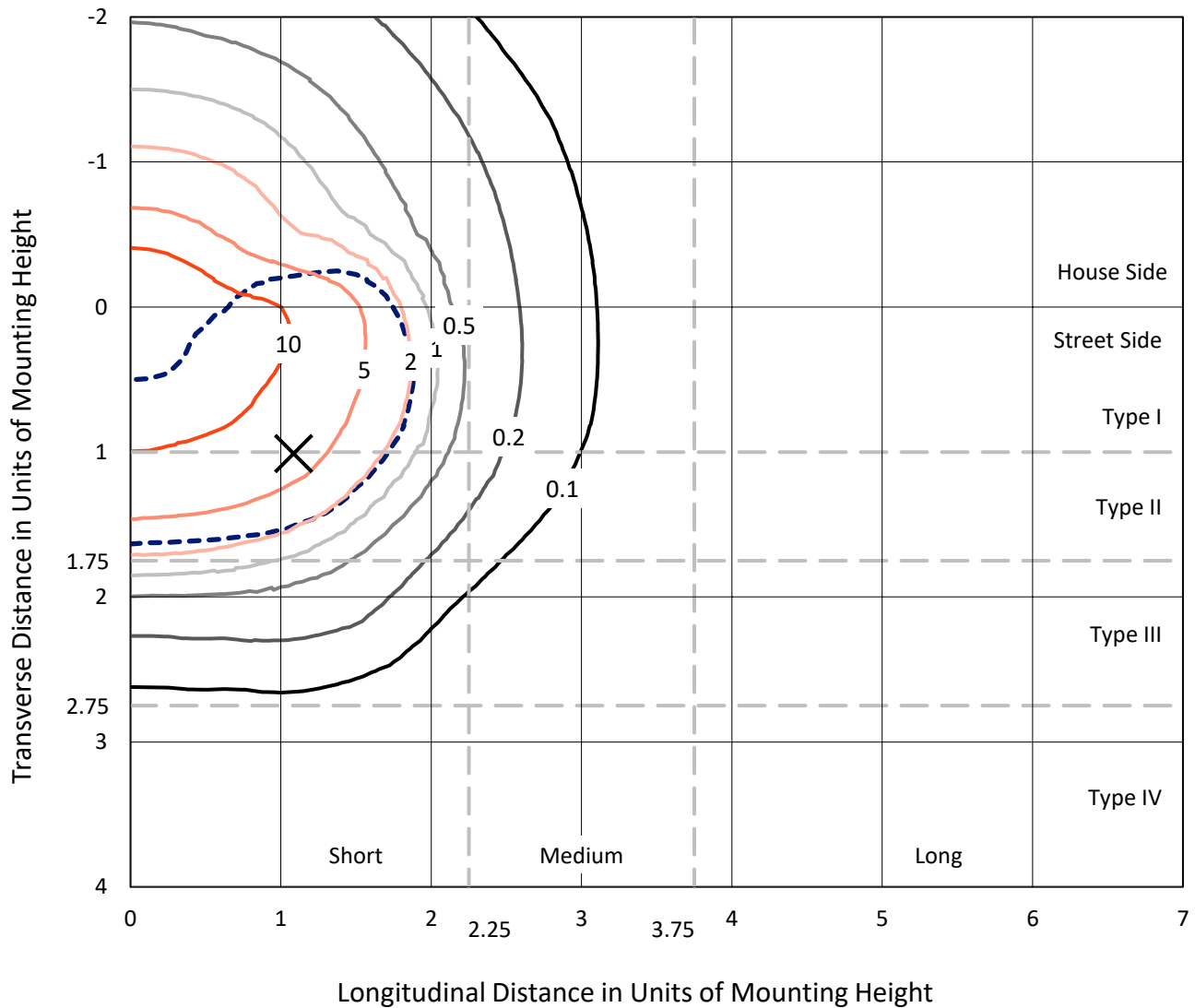


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Iso-Footcandle Lines of Horizontal Illumination

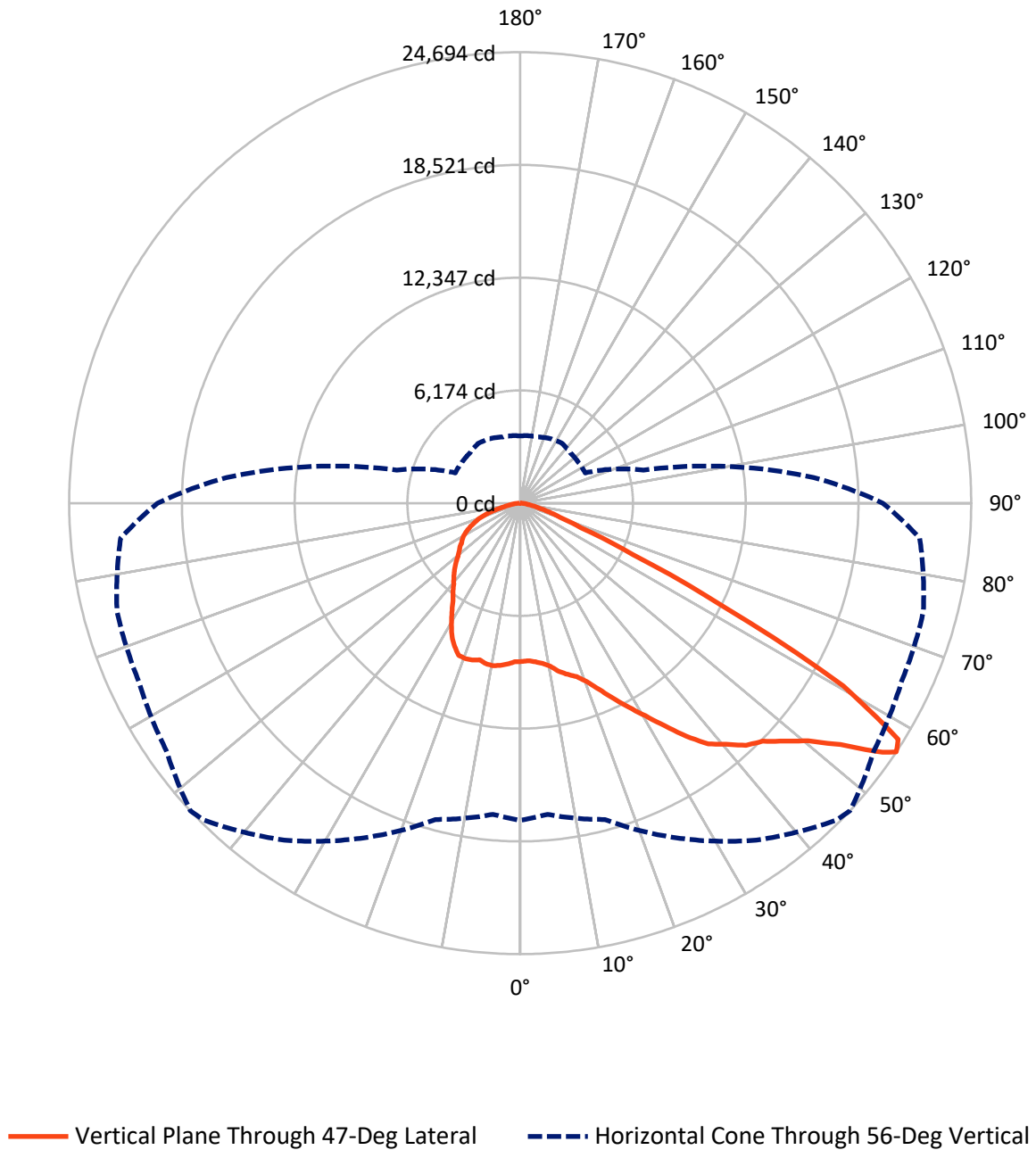
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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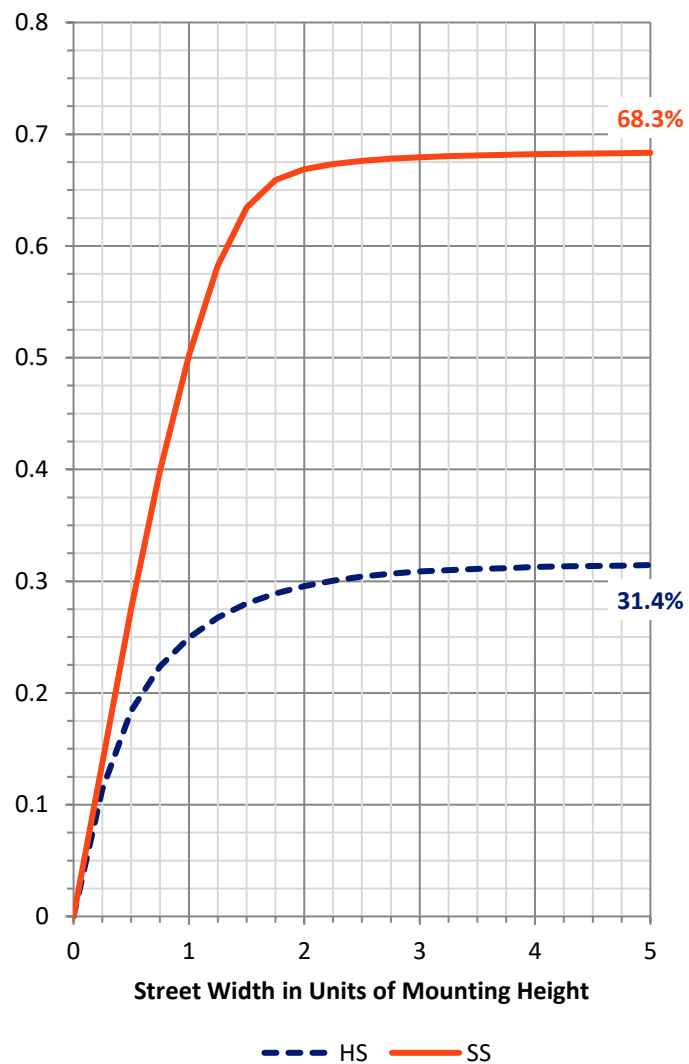
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13683.6	0.0	13683.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	29497.5	0.0	29497.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	43181.0	0.0	43181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.2	2.0
10°-20°	2666.0	6.2
20°-30°	4712.8	10.9
30°-40°	7078.5	16.4
40°-50°	9714.6	22.5
50°-60°	11573.6	26.8
60°-70°	4952.8	11.5
70°-80°	1401.6	3.2
80°-90°	235.9	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°	43181.0	100.0
0°-180°	43181.0	100.0

Coefficient of Utilization



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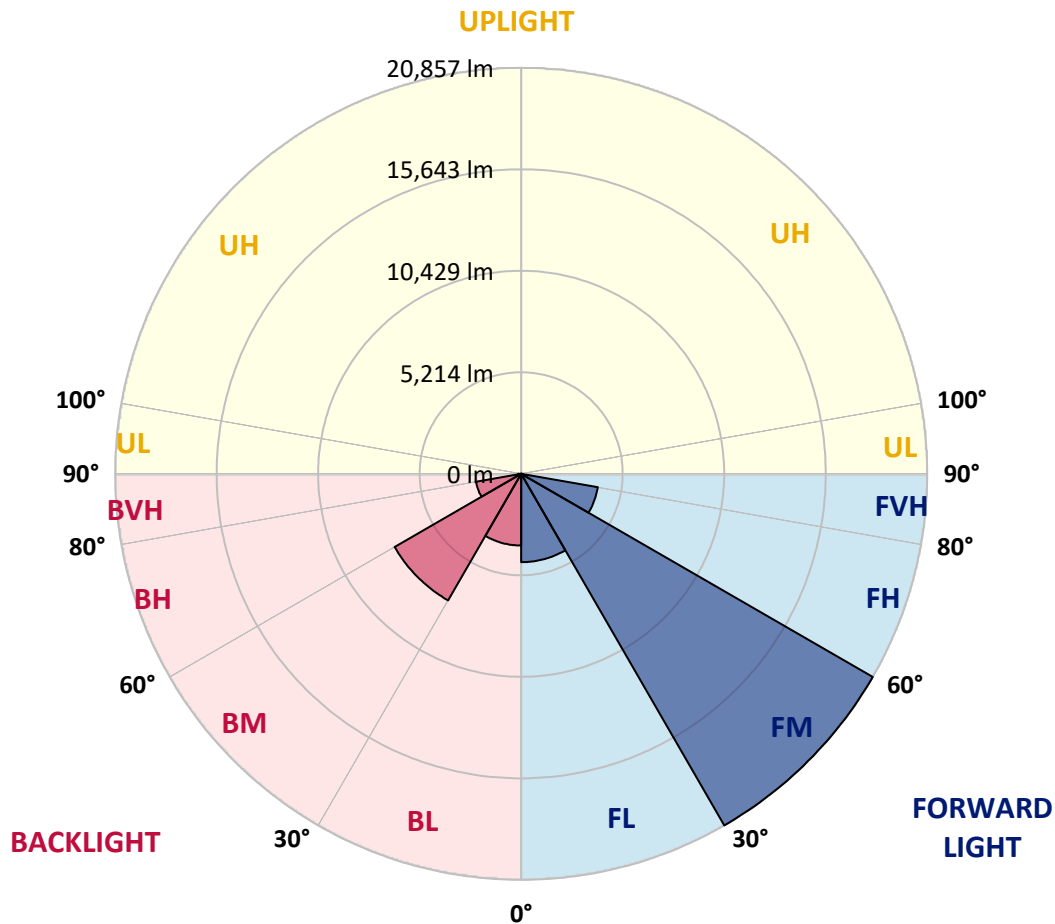
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4539.8	10.5			
FM	(30°-60°)	20857.4	48.3			
FH	(60°-80°)	4000.1	9.3			G2/5000
FVH	(80°-90°)	100.1	0.2			G2/225
BL	(0°-30°)	3684.2	8.5	B4/5000		
BM	(30°-60°)	7509.3	17.4	B4/8500		
BH	(60°-80°)	2354.3	5.5	B3/2500		G3/2500
BVH	(80°-90°)	135.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8
2.5°	8640.7	8624.2	8613.2	8701.3	8668.2	8673.8	8640.7	8673.8	8695.8	8646.2	8717.8
5°	8624.2	8673.8	8629.7	8657.2	8728.8	8706.8	8728.8	8794.9	8778.4	8761.9	8739.8
7.5°	8778.4	8783.9	8816.9	8828.0	8850.0	8828.0	8861.0	8921.6	8905.1	8811.4	8822.4
10°	8998.7	9009.7	9015.2	9075.8	9114.3	9119.8	9081.3	9026.2	9020.7	9147.4	9059.3
12.5°	9252.0	9224.5	9290.6	9312.6	9356.6	9406.2	9455.8	9340.1	9411.7	9417.2	9312.6
15°	9621.0	9648.5	9571.4	9571.4	9587.9	9593.4	9731.1	9676.1	9665.0	9604.5	9648.5
17.5°	10171.7	9984.5	9978.9	9901.8	9890.8	9934.9	9984.5	10028.5	10177.2	10056.0	9819.2
20°	10573.7	10617.8	10458.1	10364.4	10381.0	10480.1	10430.5	10628.8	10733.4	10535.2	10303.9
22.5°	11284.1	11135.4	11174.0	10964.7	10981.2	11085.9	11080.4	11284.1	11344.7	11030.8	10694.9
25°	11763.3	11724.7	11757.8	11592.5	11614.6	11697.2	11829.3	12165.3	12066.2	11719.2	10942.7
27.5°	12462.7	12385.6	12358.0	12297.5	12275.4	12495.7	12649.9	13007.9	12936.3	12429.6	11383.3
30°	13178.6	13129.0	13156.6	12908.7	12996.9	13465.0	13509.0	13999.2	13966.1	13074.0	11873.4
32.5°	13674.2	13701.8	13751.3	13613.7	14004.7	14379.2	14527.8	15084.1	15111.6	14180.9	12820.6
35°	14472.8	14379.2	14406.7	14566.4	14748.1	15431.0	15673.3	16042.3	16273.6	15342.9	13729.3
37.5°	14973.9	15073.1	14957.4	15210.7	15684.3	16504.9	16725.2	17105.2	17347.5	16488.4	14968.4
40°	15755.9	15596.2	15678.8	15860.6	16345.2	17413.6	17353.0	17744.0	17821.1	17463.2	16124.9
42.5°	16598.5	16521.4	16405.8	16818.8	17226.3	18002.9	18124.0	17942.3	18333.3	18415.9	17777.1
45°	17606.3	17700.0	17716.5	17727.5	18085.5	18762.8	18597.6	18437.9	18889.5	19489.8	18801.4
47.5°	18542.6	18245.2	18459.9	18757.3	19264.0	19269.5	19462.2	19082.3	19561.4	20095.6	19726.6
50°	18856.5	18713.3	18999.6	19561.4	20343.4	20426.0	20448.0	19908.3	20156.1	20580.2	20046.0
52.5°	18735.3	18685.7	19418.2	20288.3	21433.8	21852.3	21962.5	21296.1	21433.8	21241.1	20750.9
55°	18157.1	18305.7	19043.7	20817.0	22573.8	23868.0	24077.2	23234.6	22359.0	22507.7	21968.0
56°	17364.0	17105.2	17931.3	20216.7	22524.2	24523.3	24694.0	23642.2	23047.4	22854.6	21957.0
57.5°	14731.6	14395.7	15480.6	18190.1	21274.1	24275.5	24402.2	23812.9	22931.7	22540.7	20354.4
60°	8624.2	8789.4	10166.2	12545.3	16411.3	19902.8	20326.9	20756.4	20167.2	18415.9	15150.2
62.5°	4163.4	4058.8	5044.5	7192.3	10001.0	12705.0	12578.3	13784.4	14445.2	13085.0	9565.9
65°	2180.8	2169.8	2753.6	3926.6	5496.1	6674.7	6790.3	7440.2	8348.8	6740.7	4857.3
67.5°	1602.6	1646.6	1938.5	2759.1	3535.6	3607.2	3590.7	3915.6	4003.7	3386.9	2984.9
70°	1255.6	1277.7	1492.4	2098.2	2632.4	2357.1	2307.5	2346.0	2604.9	2715.0	2582.9
72.5°	908.7	930.7	1112.4	1415.3	1646.6	1608.1	1641.1	1855.9	2175.3	2291.0	2153.3
75°	605.8	622.3	721.4	864.6	974.8	1051.9	1112.4	1360.3	1657.7	1723.7	1657.7
77.5°	418.5	435.1	501.2	611.3	622.3	671.9	693.9	809.6	991.3	1073.9	1029.8
80°	236.8	236.8	269.9	313.9	385.5	451.6	462.6	556.2	638.8	693.9	704.9
82.5°	110.1	115.7	143.2	192.8	253.3	313.9	324.9	385.5	446.1	501.2	517.7
85°	55.1	60.6	82.6	115.7	154.2	187.2	181.7	187.2	198.3	187.2	192.8
87.5°	16.5	16.5	22.0	27.5	22.0	27.5	27.5	33.0	38.6	44.1	49.6
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°	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8	8673.8
2.5°	8723.3	8739.8	8629.7	8734.3	8695.8	8690.3	8767.4	8756.4	8783.9	8772.9	8706.8
5°	8728.8	8690.3	8805.9	8701.3	8750.9	8855.5	8783.9	8949.1	8866.5	8921.6	8800.4
7.5°	8899.5	8910.6	8888.5	8932.6	8910.6	8960.1	8921.6	8960.1	8894.0	8899.5	9009.7
10°	9048.2	9015.2	9053.7	8998.7	9037.2	9020.7	8932.6	8905.1	8927.1	8899.5	8971.1
12.5°	9323.6	9263.0	9235.5	9169.4	9125.3	8960.1	8822.4	8745.3	8850.0	8866.5	8833.5
15°	9604.5	9610.0	9483.3	9334.6	9059.3	8811.4	8844.5	8872.0	8872.0	8916.1	8833.5
17.5°	9780.7	9780.7	9665.0	9367.7	9086.8	8943.6	8910.6	8822.4	8745.3	8734.3	8728.8
20°	10089.1	9995.5	9731.1	9362.1	9075.8	9009.7	8761.9	8552.6	8392.9	8337.8	8332.3
22.5°	10441.5	10204.7	9835.8	9373.2	9059.3	8965.6	8503.0	8189.1	7902.8	7781.6	7798.1
25°	10766.5	10386.5	9896.3	9323.6	8998.7	8547.1	8029.4	7594.4	7297.0	7197.8	7148.3
27.5°	10992.3	10579.2	9896.3	9367.7	8772.9	8079.0	7550.3	6994.1	6735.2	6669.2	6680.2
30°	11295.2	10821.5	10067.1	9274.0	8321.3	7473.2	6839.9	6476.4	6322.2	6267.1	6305.7
32.5°	12005.6	11454.9	10303.9	9048.2	7787.1	6867.4	6355.2	6151.5	5925.7	5815.5	5777.0
35°	12776.6	12055.1	10535.2	8668.2	7186.8	6316.7	5997.3	5810.0	5540.2	5419.0	5441.1
37.5°	13867.0	12826.1	10551.7	8040.4	6537.0	6008.3	5716.4	5424.5	5204.3	5017.0	4961.9
40°	15337.4	13878.0	10513.1	7379.6	6013.8	5644.8	5430.0	5066.6	4818.8	4686.6	4714.1
42.5°	16631.6	15111.6	10353.4	6630.6	5540.2	5397.0	5154.7	4796.7	4554.4	4416.7	4405.7
45°	17722.0	16020.3	10050.5	5991.8	5143.7	5121.6	4840.8	4565.4	4372.7	4246.0	4301.1
47.5°	18729.8	16752.7	9593.4	5352.9	4780.2	4824.3	4554.4	4383.7	4262.5	4146.9	4141.4
50°	19093.3	16741.7	9191.4	4824.3	4488.3	4466.3	4455.3	4273.5	4146.9	4047.8	4091.8
52.5°	19699.1	16929.0	8756.4	4460.8	4224.0	4229.5	4268.0	4135.9	3992.7	3932.1	3987.2
55°	20569.2	16956.5	7798.1	4036.7	4003.7	4042.2	4042.2	3954.1	3833.0	3783.4	3755.9
56°	19858.8	16135.9	6994.1	3926.6	3893.6	3893.6	3998.2	3899.1	3750.4	3711.8	3678.8
57.5°	18316.8	14136.8	5854.1	3794.4	3744.9	3822.0	3877.0	3772.4	3634.7	3579.6	3612.7
60°	12633.4	9565.9	4400.2	3508.1	3508.1	3634.7	3678.8	3524.6	3464.0	3458.5	3414.4
62.5°	7374.1	5573.2	3442.0	3249.2	3260.2	3364.9	3397.9	3309.8	3232.7	3326.3	3370.4
65°	3910.1	3326.3	2951.8	2973.9	2979.4	3062.0	3205.2	3199.7	3194.1	3221.7	3227.2
67.5°	2830.7	2764.6	2682.0	2660.0	2671.0	2731.5	2874.7	2984.9	2979.4	2913.3	2863.7
70°	2522.3	2428.7	2379.1	2384.6	2340.5	2412.1	2527.8	2599.4	2472.7	2395.6	2362.6
72.5°	2098.2	2070.7	2037.6	2043.2	1955.0	1938.5	1806.3	1806.3	1773.3	1751.3	1789.8
75°	1602.6	1591.6	1608.1	1580.6	1486.9	1387.8	1310.7	1239.1	1129.0	1084.9	1062.9
77.5°	1013.3	1046.4	1084.9	1024.3	985.8	914.2	837.1	765.5	677.4	627.8	627.8
80°	688.4	715.9	743.5	732.5	688.4	622.3	561.7	484.6	424.1	385.5	380.0
82.5°	523.2	545.2	583.8	539.7	495.6	440.6	391.0	335.9	280.9	236.8	236.8
85°	187.2	214.8	236.8	258.8	275.4	280.9	242.3	198.3	159.7	126.7	121.2
87.5°	49.6	55.1	60.6	55.1	55.1	55.1	60.6	55.1	49.6	38.6	38.6
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)