

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: P532562

Luminaire Tested: **GALN-SA7D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532562
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-SA7D-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 37377 lumens
Efficiency: N/A
Efficacy: 86.3 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): 433
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

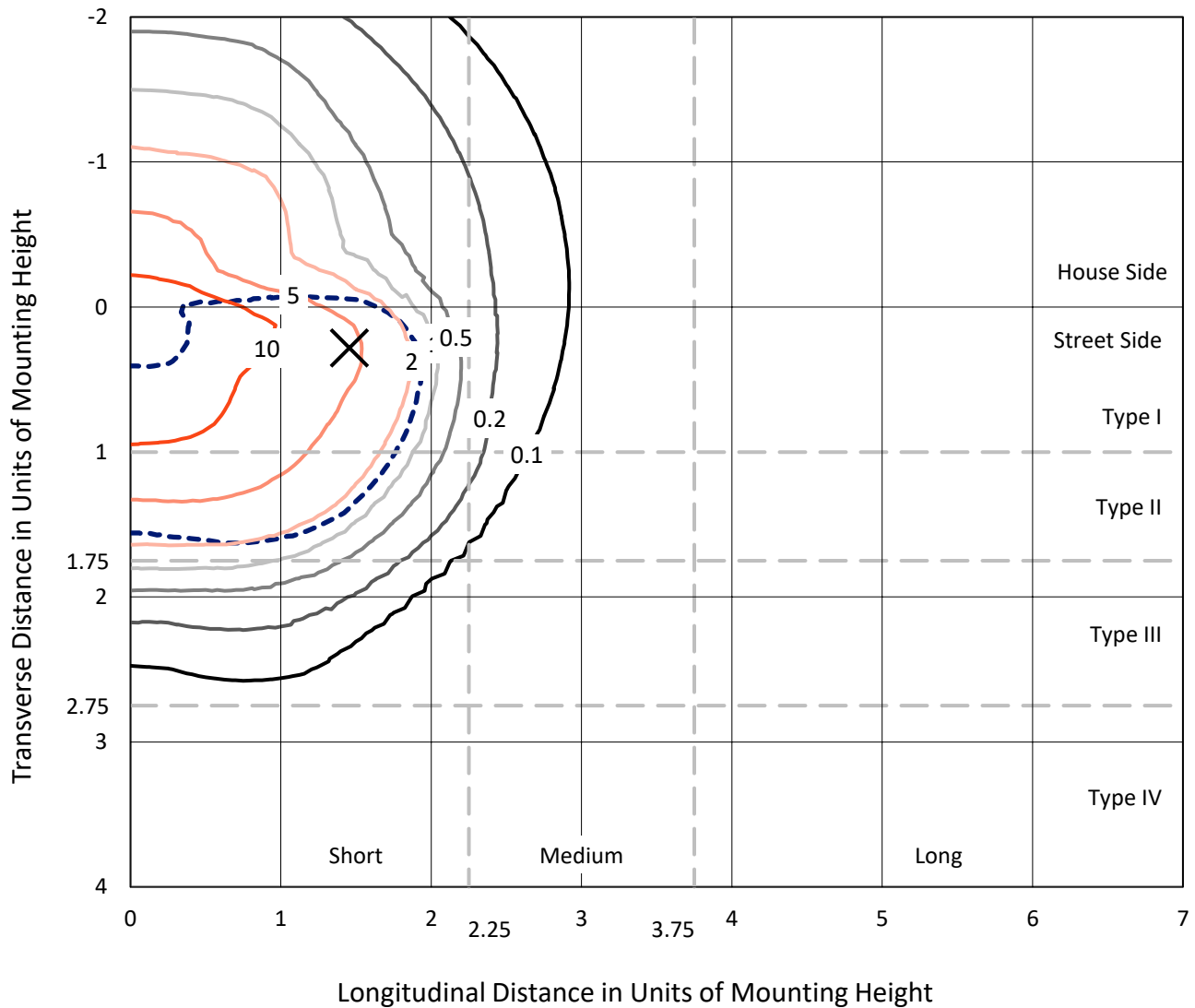


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Iso-Footcandle Lines of Horizontal Illumination

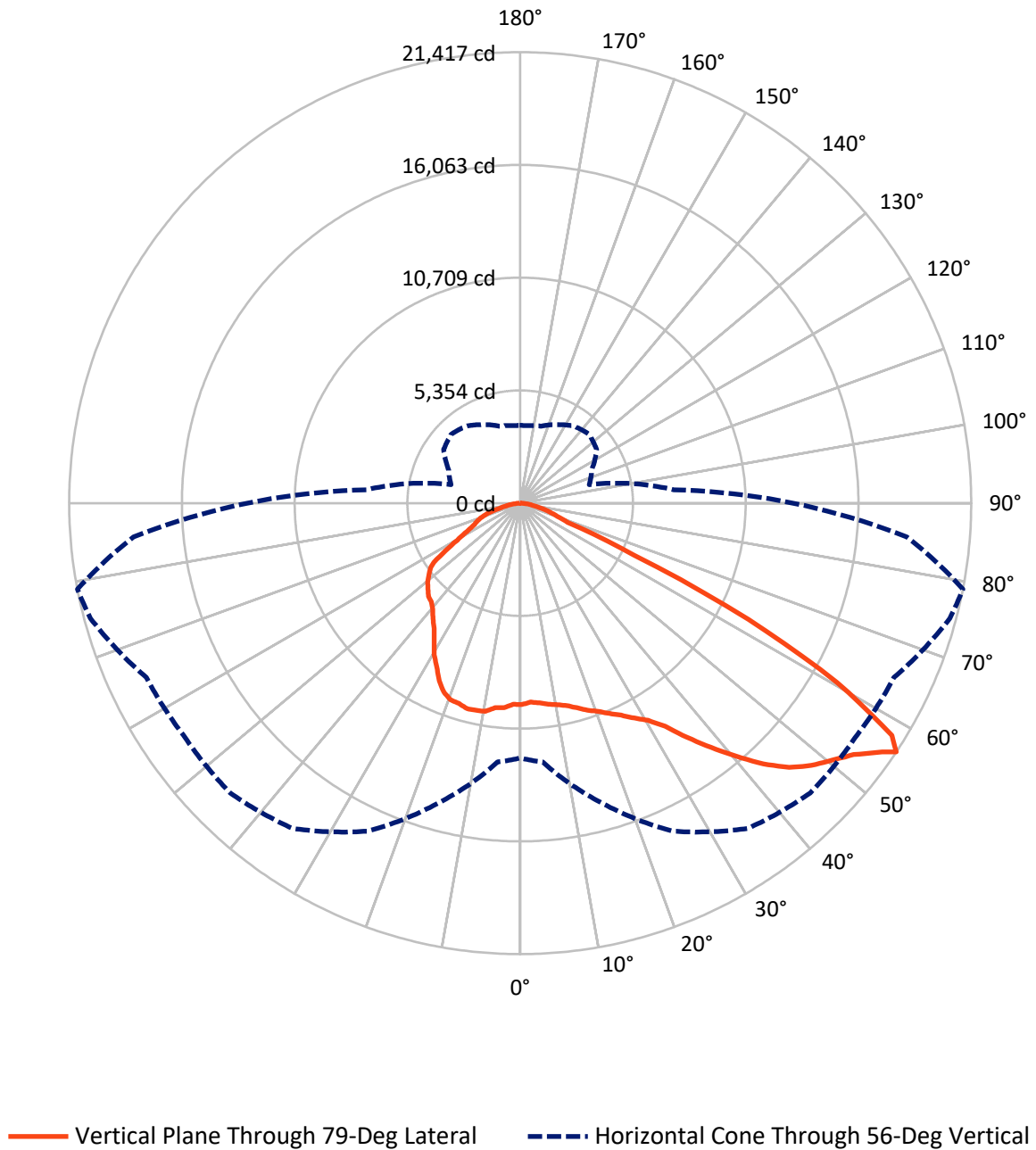
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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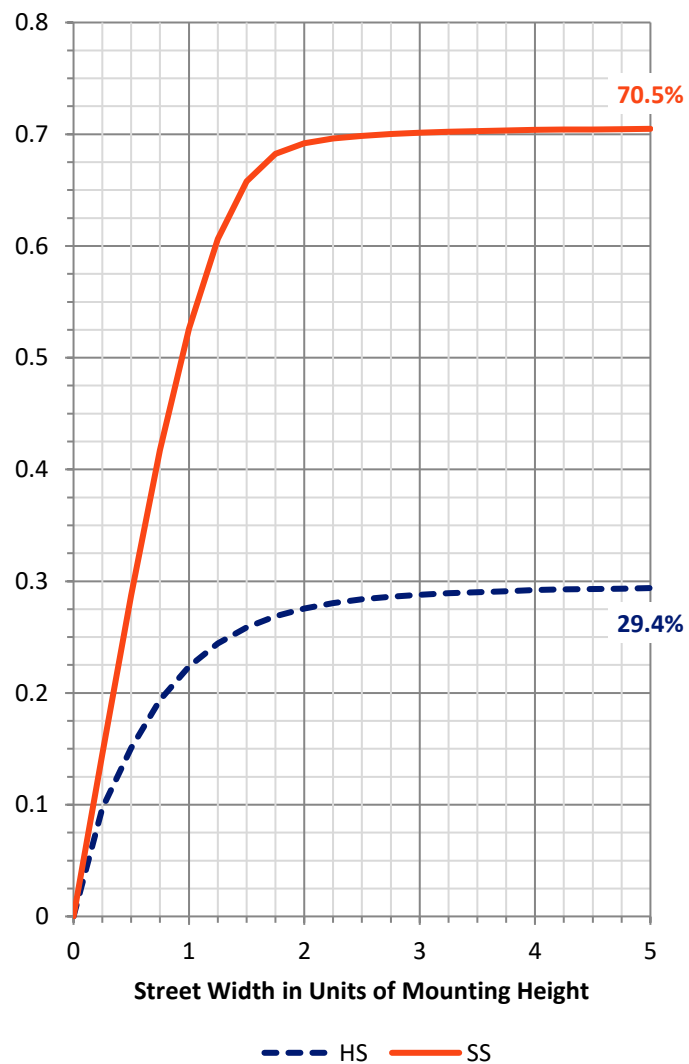
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11038.2	0.0	11038.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	26338.8	0.0	26338.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	37377.0	0.0	37377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.5	2.3
10°-20°	2379.5	6.4
20°-30°	4070.9	10.9
30°-40°	6239.2	16.7
40°-50°	8432.3	22.6
50°-60°	9684.7	25.9
60°-70°	4414.6	11.8
70°-80°	1088.4	2.9
80°-90°	197.8	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°	37377.0	100.0
0°-180°	37377.0	100.0

Coefficient of Utilization



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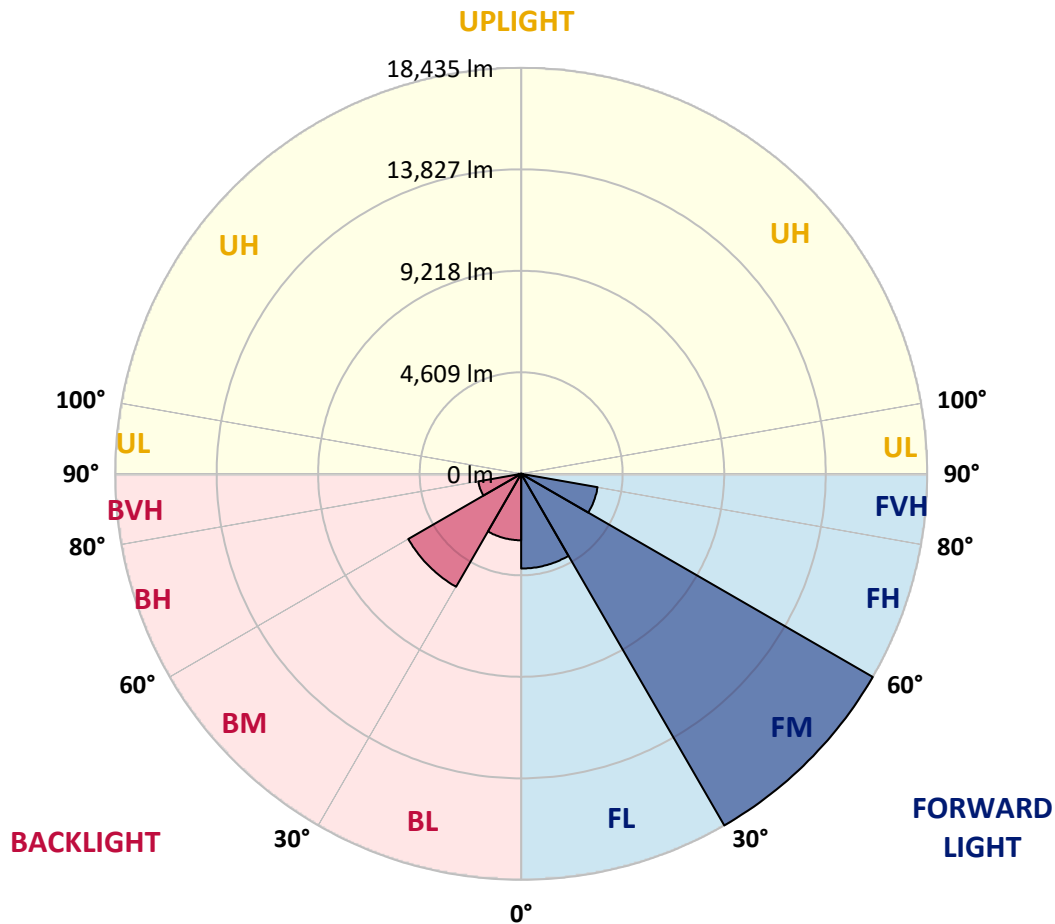
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4300.5	11.5			
FM	(30°-60°)	18435.4	49.3			
FH	(60°-80°)	3523.8	9.4			G2/5000
FVH	(80°-90°)	79.0	0.2			G1/100
BL	(0°-30°)	3019.4	8.1	B4/5000		
BM	(30°-60°)	5920.8	15.8	B4/8500		
BH	(60°-80°)	1979.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	118.8	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°	55°	65°	75°	79°	85°
0°	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3
2.5°	9097.7	9074.4	9130.3	9172.2	9223.4	9288.6	9321.2	9339.8	9502.8	9460.9	9586.6
5°	8902.2	8841.6	8883.5	8916.1	9004.6	9083.7	9172.2	9311.9	9460.9	9526.0	9679.7
7.5°	8729.9	8697.3	8688.0	8711.3	8832.3	8934.7	9088.4	9293.2	9535.4	9642.4	9730.9
10°	8445.9	8399.3	8469.1	8622.8	8655.4	8869.6	9046.5	9339.8	9549.3	9735.6	9996.3
12.5°	8320.2	8273.6	8287.6	8376.0	8604.2	8809.0	9018.5	9349.1	9791.4	9865.9	10215.1
15°	8520.4	8473.8	8487.8	8464.5	8683.3	8790.4	9121.0	9535.4	9959.0	10084.8	10457.2
17.5°	8976.6	8981.3	8920.8	8869.6	8818.3	9046.5	9274.6	9647.1	10024.2	10340.8	10620.2
20°	9847.3	9693.7	9572.6	9283.9	9204.8	9302.6	9591.2	9949.7	10289.6	10550.4	10867.0
22.5°	10517.8	10531.7	10359.5	9884.6	9712.3	9754.2	10001.0	10294.3	10666.8	10853.0	11216.2
25°	11490.9	11393.1	11206.8	10829.7	10443.3	10475.9	10657.4	10922.8	11025.3	11155.6	11551.4
27.5°	12380.1	12408.1	12040.3	11686.4	11206.8	11113.7	11439.6	11486.2	11313.9	11560.7	11695.7
30°	13283.4	13260.1	13018.0	12603.6	12133.4	12152.0	12296.3	12068.2	11830.7	11965.8	12058.9
32.5°	14219.2	13953.8	13944.5	13572.1	13213.5	13041.3	12864.4	12976.1	12608.3	12636.2	12547.7
35°	14968.8	15006.1	14791.9	14526.5	14349.6	14047.0	13562.7	13762.9	13693.1	13660.5	13278.7
37.5°	15513.6	15369.2	15476.3	15387.9	15220.3	14843.1	14340.3	14531.2	14563.8	14722.1	14279.8
40°	15960.6	15900.0	16184.0	16230.6	16114.2	15299.4	14396.2	14964.2	15453.1	15797.6	15271.5
42.5°	16174.7	16305.1	16603.1	16961.6	16700.8	15830.2	14684.8	15294.8	16384.2	16929.0	16212.0
45°	16463.4	16295.8	16738.1	17394.6	17399.2	16277.2	14964.2	15741.7	17110.6	17902.1	16854.5
47.5°	16170.1	16253.9	16710.2	17543.6	17757.7	16747.4	15718.4	16374.9	17911.4	18614.4	17450.5
50°	15513.6	15681.2	16514.6	17380.6	18027.8	17245.6	16584.4	17059.4	18651.7	19187.1	17548.2
52.5°	14829.2	14922.3	16225.9	17506.3	18148.8	17888.1	17743.8	18004.5	19554.9	19834.3	17669.3
55°	12966.8	13409.1	15271.5	17450.5	18740.1	19047.4	18935.7	19317.5	20579.2	20858.6	18330.4
56°	12105.4	12338.2	14698.8	17189.7	18856.5	19471.1	19415.3	19587.5	21124.0	21417.3	18432.9
57.5°	10513.1	10531.7	12533.8	16035.0	18418.9	19596.8	19541.0	19676.0	21016.9	20816.7	17534.3
60°	6578.8	6867.5	8529.7	12333.6	15662.6	18181.4	18498.0	17413.2	17720.5	17296.8	13641.9
62.5°	3408.1	3366.2	4469.7	7212.0	10396.7	13018.0	13311.3	13260.1	12785.2	12166.0	8911.5
65°	1699.4	1708.7	2337.3	3571.1	5326.4	6816.3	7635.7	7724.2	6462.4	5945.6	4227.6
67.5°	1233.8	1280.4	1680.8	2183.6	2509.5	2807.5	3440.7	3375.6	2556.1	2430.4	2253.5
70°	959.1	1001.0	1364.2	1666.8	1513.2	1513.2	1648.2	1704.1	1820.5	1871.7	1932.2
72.5°	698.4	731.0	1042.9	1150.0	991.7	1066.2	1233.8	1364.2	1485.2	1503.9	1573.7
75°	479.6	507.5	684.4	633.2	596.0	735.6	903.3	1024.3	1112.8	1159.3	1201.2
77.5°	311.9	321.3	391.1	330.6	381.8	474.9	586.6	689.1	777.5	814.8	824.1
80°	139.7	153.6	167.6	209.5	265.4	339.9	419.0	502.8	558.7	572.7	600.6
82.5°	79.2	79.2	102.4	149.0	195.5	246.8	302.6	363.2	428.3	442.3	437.7
85°	41.9	41.9	60.5	88.5	121.1	144.3	139.7	144.3	153.6	176.9	172.3
87.5°	14.0	14.0	18.6	18.6	23.3	27.9	23.3	32.6	41.9	41.9	41.9
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°	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3	9563.3
2.5°	9549.3	9591.2	9535.4	9656.4	9656.4	9633.1	9516.7	9554.0	9581.9	9581.9	9605.2
5°	9730.9	9716.9	9754.2	9609.9	9521.4	9488.8	9297.9	9204.8	9125.6	9121.0	9051.1
7.5°	9833.3	9796.1	9782.1	9675.0	9283.9	9046.5	8636.8	8399.3	8348.1	8166.5	8236.4
10°	9996.3	10066.1	9996.3	9414.3	8869.6	8324.8	7924.4	7556.6	7412.3	7295.9	7226.0
12.5°	10331.5	10298.9	9893.9	9107.0	8343.4	7696.3	7100.3	6713.9	6569.5	6467.1	6457.8
15°	10615.5	10452.6	9833.3	8622.8	7524.0	6834.9	6346.0	6071.3	6006.2	6015.5	6057.4
17.5°	10713.3	10601.6	9516.7	8120.0	6914.1	6103.9	5875.8	5833.9	5894.4	5964.3	5982.9
20°	10867.0	10690.0	9386.4	7435.5	6159.8	5647.7	5633.7	5782.7	5894.4	5996.8	6010.8
22.5°	11188.2	10741.2	8962.7	6788.4	5643.0	5512.6	5647.7	5773.4	5945.6	6029.4	5954.9
25°	11281.3	10629.5	8366.7	6010.8	5317.1	5428.8	5573.2	5745.4	5866.5	5913.0	5945.6
27.5°	11360.5	10457.2	7561.2	5494.0	5214.6	5424.2	5573.2	5717.5	5782.7	5824.6	5861.8
30°	11584.0	10406.0	6862.9	5149.5	5149.5	5331.0	5521.9	5559.2	5647.7	5698.9	5764.0
32.5°	11695.7	10052.2	6145.8	4930.6	5084.3	5377.6	5391.6	5461.4	5466.1	5508.0	5438.1
35°	11989.0	9800.7	5480.0	4772.3	5112.2	5331.0	5400.9	5359.0	5130.8	5019.1	5042.4
37.5°	12203.2	9675.0	5000.5	4753.7	5116.9	5382.3	5419.5	5102.9	4865.5	4679.2	4725.8
40°	12780.5	9363.1	4637.3	4721.1	5158.8	5438.1	5335.7	4991.2	4562.8	4371.9	4339.3
42.5°	13222.9	9139.6	4409.2	4683.9	5191.4	5517.3	5293.8	4767.7	4330.0	4153.1	4199.7
45°	13735.0	9088.4	4288.1	4693.2	5247.2	5559.2	5242.6	4595.4	4129.8	4060.0	4046.0
47.5°	13916.6	8720.6	4157.8	4614.0	5233.3	5545.2	5070.3	4465.0	4055.3	4064.6	4101.9
50°	13614.0	8343.4	4060.0	4451.1	5140.2	5419.5	4800.3	4292.8	4013.4	4129.8	4195.0
52.5°	13227.5	7957.0	3859.8	4232.2	4949.3	5224.0	4674.6	4283.5	3971.5	3934.3	3948.2
55°	13343.9	7640.4	3580.4	3934.3	4642.0	4860.8	4534.9	4195.0	3869.1	3729.4	3776.0
56°	12966.8	7314.5	3398.8	3748.0	4432.5	4628.0	4465.0	4115.8	3785.3	3692.2	3692.2
57.5°	11900.6	6220.3	3161.4	3450.0	3990.1	4222.9	4330.0	4069.3	3692.2	3529.2	3533.9
60°	8776.4	4423.1	2835.5	3040.3	3305.7	3492.0	3990.1	3938.9	3459.4	3347.6	3305.7
62.5°	5410.2	3231.2	2602.7	2681.8	2816.8	2970.5	3482.6	3566.4	3212.6	3091.5	3063.6
65°	3031.0	2472.3	2425.7	2458.3	2523.5	2602.7	2891.3	3077.6	2835.5	2649.2	2639.9
67.5°	2216.2	2211.6	2248.8	2276.8	2304.7	2304.7	2374.5	2449.0	2416.4	2267.4	2253.5
70°	1969.5	1983.4	2011.4	2016.0	2025.3	1992.7	1936.9	1913.6	1950.8	1857.7	1839.1
72.5°	1624.9	1671.5	1704.1	1708.7	1657.5	1615.6	1541.1	1462.0	1434.0	1415.4	1410.7
75°	1247.8	1280.4	1294.4	1289.7	1271.1	1210.5	1122.1	1042.9	991.7	935.8	963.8
77.5°	842.7	889.3	912.6	912.6	884.6	791.5	749.6	689.1	637.9	577.3	586.6
80°	591.3	623.9	661.1	656.5	609.9	563.4	502.8	447.0	405.1	358.5	353.9
82.5°	442.3	460.9	479.6	470.2	437.7	391.1	349.2	298.0	251.4	218.8	218.8
85°	158.3	172.3	209.5	218.8	237.5	237.5	200.2	167.6	135.0	111.7	111.7
87.5°	46.6	46.6	51.2	51.2	46.6	51.2	41.9	46.6	51.2	32.6	32.6
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)