

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: P533498

Luminaire Tested: **GALN-SA8D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533498
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-SA8D-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 43333 lumens
Efficiency: N/A
Efficacy: 87.9 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): 493
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

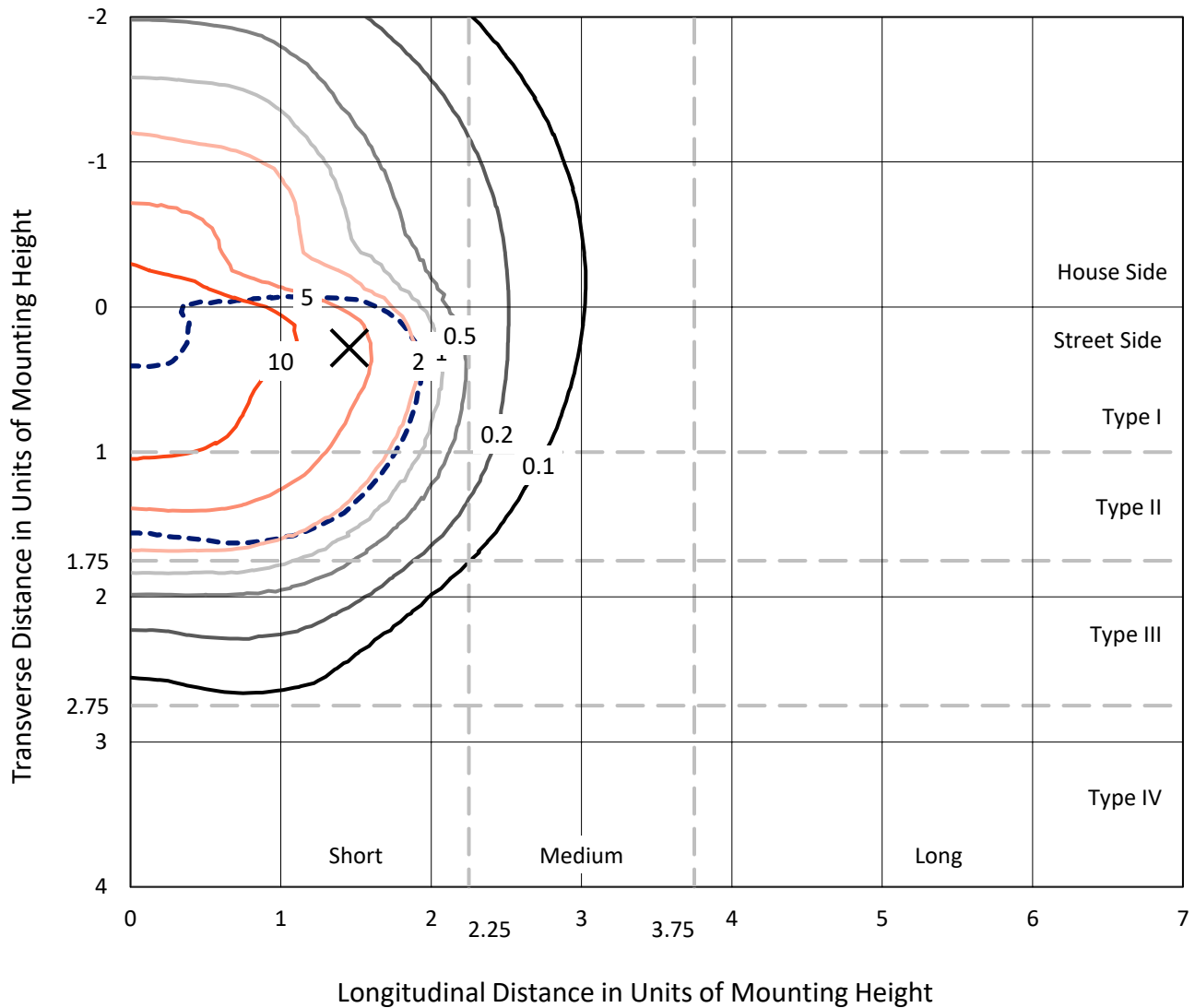


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Iso-Footcandle Lines of Horizontal Illumination

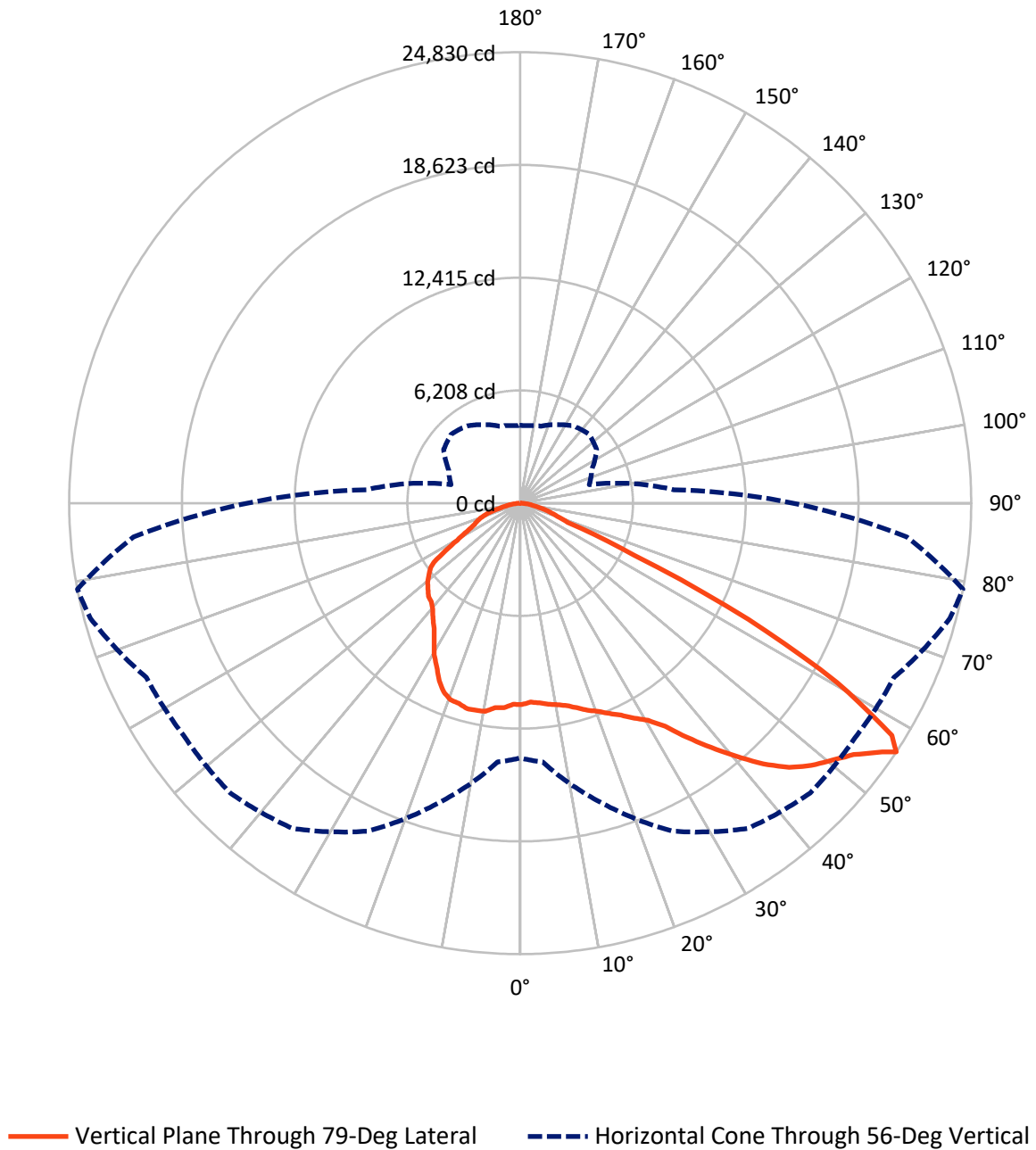
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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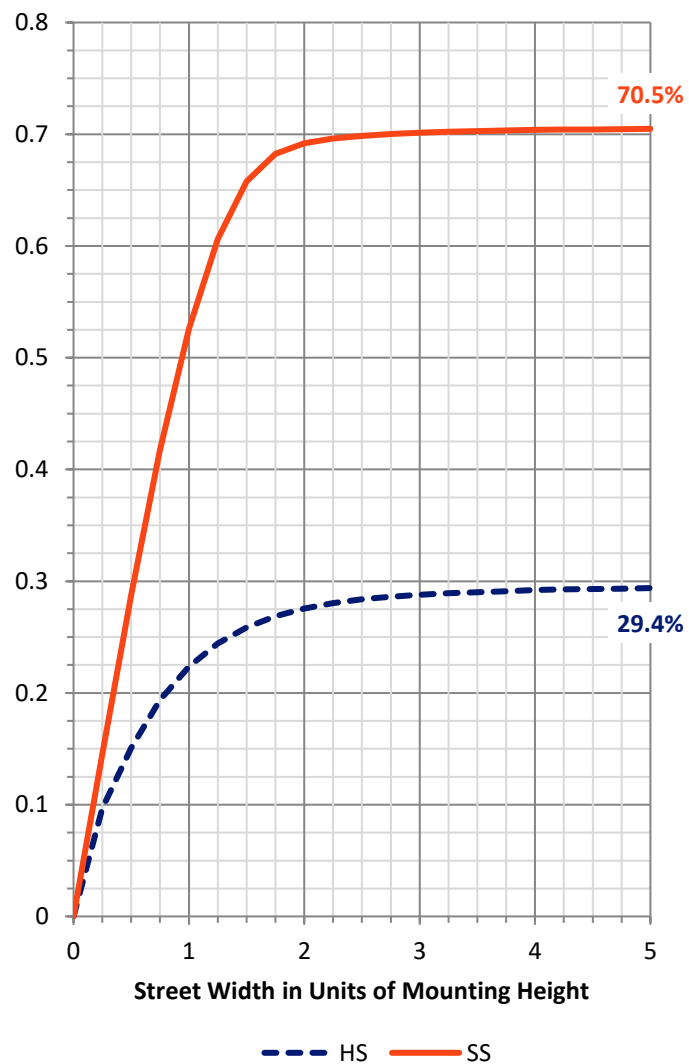
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12797.2	0.0	12797.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	30535.8	0.0	30535.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	43333.0	0.0	43333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.0	2.3
10°-20°	2758.7	6.4
20°-30°	4719.6	10.9
30°-40°	7233.4	16.7
40°-50°	9775.9	22.6
50°-60°	11228.0	25.9
60°-70°	5118.1	11.8
70°-80°	1261.8	2.9
80°-90°	229.3	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°	43333.0	100.0
0°-180°	43333.0	100.0

Coefficient of Utilization



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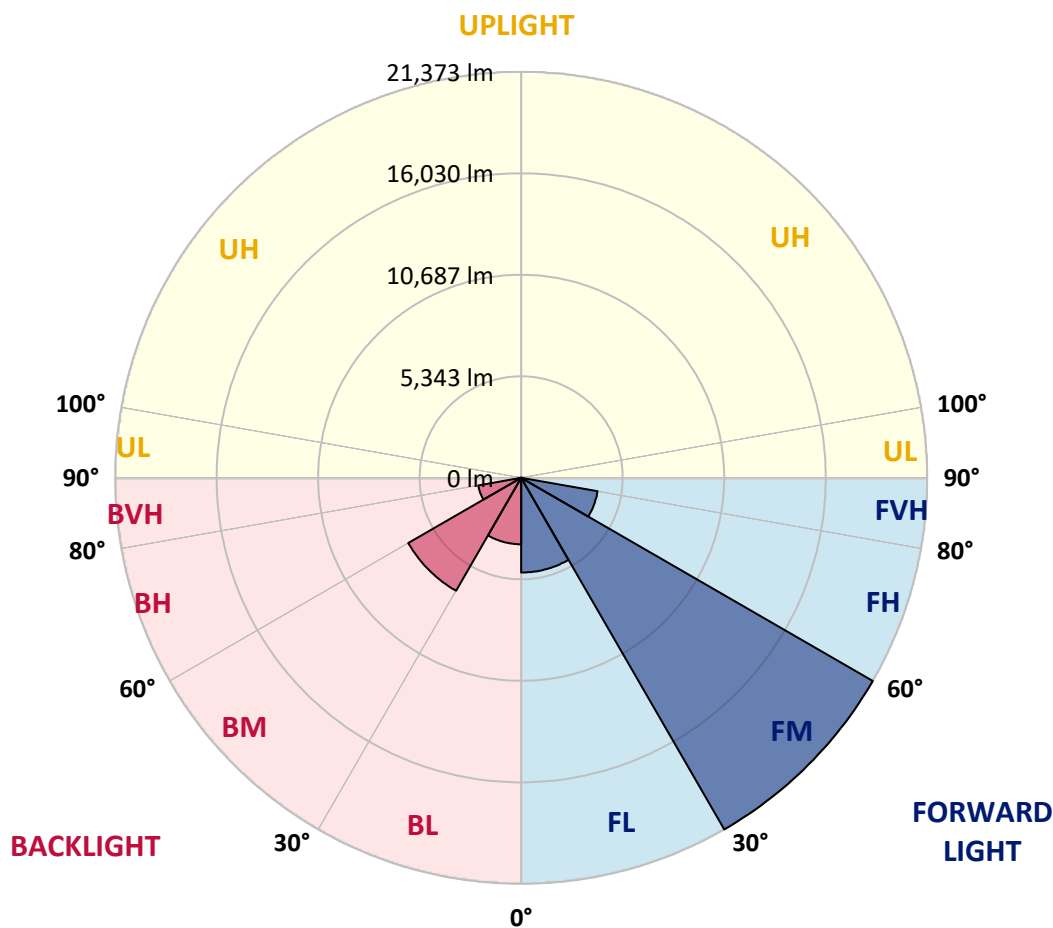
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4985.8	11.5			
FM	(30°-60°)	21373.1	49.3			
FH	(60°-80°)	4085.3	9.4			G2/5000
FVH	(80°-90°)	91.6	0.2			G1/100
BL	(0°-30°)	3500.6	8.1	B4/5000		
BM	(30°-60°)	6864.2	15.8	B4/8500		
BH	(60°-80°)	2294.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	137.8	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°	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2
2.5°	10547.4	10520.4	10585.2	10633.8	10693.2	10768.7	10806.5	10828.1	11017.0	10968.4	11114.2
5°	10320.7	10250.5	10299.1	10336.9	10439.5	10531.2	10633.8	10795.7	10968.4	11044.0	11222.1
7.5°	10121.0	10083.2	10072.4	10099.4	10239.7	10358.5	10536.6	10774.1	11054.8	11179.0	11281.5
10°	9791.7	9737.7	9818.7	9996.8	10034.6	10282.9	10488.0	10828.1	11071.0	11286.9	11589.2
12.5°	9646.0	9592.0	9608.2	9710.7	9975.2	10212.7	10455.6	10838.9	11351.7	11438.1	11842.9
15°	9878.1	9824.1	9840.3	9813.3	10067.0	10191.2	10574.4	11054.8	11546.0	11691.8	12123.6
17.5°	10407.1	10412.5	10342.3	10282.9	10223.5	10488.0	10752.5	11184.4	11621.6	11988.6	12312.5
20°	11416.5	11238.3	11098.0	10763.3	10671.6	10784.9	11119.6	11535.2	11929.3	12231.5	12598.6
22.5°	12193.8	12210.0	12010.2	11459.7	11259.9	11308.5	11594.6	11934.7	12366.5	12582.4	13003.4
25°	13321.9	13208.6	12992.6	12555.4	12107.4	12145.2	12355.7	12663.4	12782.1	12933.3	13392.1
27.5°	14352.9	14385.3	13958.9	13548.6	12992.6	12884.7	13262.5	13316.5	13116.8	13402.9	13559.4
30°	15400.1	15373.1	15092.4	14612.0	14066.8	14088.4	14255.7	13991.2	13716.0	13872.5	13980.5
32.5°	16485.1	16177.4	16166.6	15734.8	15319.1	15119.4	14914.3	15043.8	14617.4	14649.8	14547.2
35°	17354.1	17397.3	17149.0	16841.3	16636.2	16285.3	15724.0	15956.1	15875.1	15837.3	15394.7
37.5°	17985.7	17818.3	17942.5	17839.9	17645.6	17208.4	16625.4	16846.7	16884.5	17068.0	16555.2
40°	18503.9	18433.7	18763.0	18816.9	18682.0	17737.4	16690.2	17348.7	17915.5	18314.9	17705.0
42.5°	18752.2	18903.3	19248.8	19664.4	19362.1	18352.7	17024.8	17732.0	18995.1	19626.6	18795.3
45°	19086.8	18892.5	19405.3	20166.4	20171.8	18870.9	17348.7	18250.2	19837.1	20754.8	19540.2
47.5°	18746.8	18843.9	19372.9	20339.1	20587.4	19416.1	18223.2	18984.3	20765.6	21580.6	20231.2
50°	17985.7	18180.0	19146.2	20150.2	20900.5	19993.7	19227.2	19777.7	21623.8	22244.6	20344.5
52.5°	17192.2	17300.1	18811.5	20295.9	21040.8	20738.6	20571.2	20873.5	22671.0	22994.9	20484.9
55°	15033.0	15545.8	17705.0	20231.2	21726.4	22082.6	21953.1	22395.7	23858.5	24182.4	21251.4
56°	14034.4	14304.3	17041.0	19928.9	21861.3	22573.8	22509.1	22708.8	24490.1	24830.1	21370.1
57.5°	12188.4	12210.0	14531.0	18590.2	21353.9	22719.6	22654.8	22811.3	24365.9	24133.8	20328.3
60°	7627.2	7961.8	9888.9	14298.9	18158.4	21078.6	21445.7	20188.0	20544.2	20053.0	15815.7
62.5°	3951.2	3902.7	5181.9	8361.3	12053.4	15092.4	15432.5	15373.1	14822.5	14104.6	10331.5
65°	1970.2	1981.0	2709.7	4140.2	6175.1	7902.5	8852.5	8955.0	7492.2	6893.1	4901.3
67.5°	1430.4	1484.4	1948.6	2531.6	2909.4	3254.9	3989.0	3913.4	2963.4	2817.7	2612.6
70°	1112.0	1160.5	1581.6	1932.4	1754.3	1754.3	1910.8	1975.6	2110.6	2169.9	2240.1
72.5°	809.7	847.5	1209.1	1333.3	1149.7	1236.1	1430.4	1581.6	1721.9	1743.5	1824.5
75°	556.0	588.4	793.5	734.1	690.9	852.9	1047.2	1187.5	1290.1	1344.1	1392.6
77.5°	361.7	372.5	453.4	383.2	442.6	550.6	680.1	798.9	901.4	944.6	955.4
80°	161.9	178.1	194.3	242.9	307.7	394.0	485.8	583.0	647.7	663.9	696.3
82.5°	91.8	91.8	118.8	172.7	226.7	286.1	350.9	421.0	496.6	512.8	507.4
85°	48.6	48.6	70.2	102.6	140.3	167.3	161.9	167.3	178.1	205.1	199.7
87.5°	16.2	16.2	21.6	21.6	27.0	32.4	27.0	37.8	48.6	48.6	48.6
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°	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2	11087.2
2.5°	11071.0	11119.6	11054.8	11195.2	11195.2	11168.2	11033.2	11076.4	11108.8	11108.8	11135.8
5°	11281.5	11265.3	11308.5	11141.2	11038.6	11000.8	10779.5	10671.6	10579.8	10574.4	10493.4
7.5°	11400.3	11357.1	11340.9	11216.7	10763.3	10488.0	10013.0	9737.7	9678.4	9467.8	9548.8
10°	11589.2	11670.2	11589.2	10914.5	10282.9	9651.4	9187.2	8760.7	8593.4	8458.4	8377.5
12.5°	11977.8	11940.1	11470.4	10558.2	9673.0	8922.7	8231.7	7783.7	7616.4	7497.6	7486.8
15°	12307.1	12118.2	11400.3	9996.8	8722.9	7924.1	7357.3	7038.8	6963.2	6974.0	7022.6
17.5°	12420.5	12290.9	11033.2	9413.9	8015.8	7076.6	6812.1	6763.5	6833.7	6914.7	6936.2
20°	12598.6	12393.5	10882.1	8620.4	7141.4	6547.6	6531.4	6704.1	6833.7	6952.4	6968.6
22.5°	12971.1	12452.9	10390.9	7870.1	6542.2	6391.1	6547.6	6693.3	6893.1	6990.2	6903.9
25°	13079.0	12323.3	9699.9	6968.6	6164.4	6293.9	6461.2	6661.0	6801.3	6855.3	6893.1
27.5°	13170.8	12123.6	8766.1	6369.5	6045.6	6288.5	6461.2	6628.6	6704.1	6752.7	6795.9
30°	13429.9	12064.2	7956.4	5970.0	5970.0	6180.5	6401.9	6445.0	6547.6	6607.0	6682.5
32.5°	13559.4	11654.0	7125.2	5716.3	5894.5	6234.5	6250.7	6331.7	6337.1	6385.7	6304.7
35°	13899.5	11362.5	6353.3	5532.8	5926.8	6180.5	6261.5	6212.9	5948.4	5818.9	5845.9
37.5°	14147.8	11216.7	5797.3	5511.2	5932.2	6239.9	6283.1	5916.1	5640.8	5424.8	5478.8
40°	14817.1	10855.1	5376.3	5473.4	5980.8	6304.7	6185.9	5786.5	5289.9	5068.6	5030.8
42.5°	15329.9	10596.0	5111.8	5430.2	6018.6	6396.5	6137.4	5527.4	5020.0	4814.9	4868.9
45°	15923.7	10536.6	4971.4	5441.0	6083.4	6445.0	6078.0	5327.7	4787.9	4706.9	4690.7
47.5°	16134.2	10110.2	4820.3	5349.3	6067.2	6428.8	5878.3	5176.5	4701.5	4712.3	4755.5
50°	15783.3	9673.0	4706.9	5160.4	5959.2	6283.1	5565.2	4976.8	4653.0	4787.9	4863.5
52.5°	15335.3	9224.9	4474.8	4906.7	5737.9	6056.4	5419.4	4966.0	4604.4	4561.2	4577.4
55°	15470.3	8857.9	4151.0	4561.2	5381.7	5635.4	5257.5	4863.5	4485.6	4323.7	4377.7
56°	15033.0	8480.0	3940.4	4345.3	5138.8	5365.5	5176.5	4771.7	4388.5	4280.5	4280.5
57.5°	13796.9	7211.5	3665.1	3999.8	4626.0	4895.9	5020.0	4717.7	4280.5	4091.6	4097.0
60°	10175.0	5128.0	3287.3	3524.8	3832.5	4048.4	4626.0	4566.6	4010.6	3881.1	3832.5
62.5°	6272.3	3746.1	3017.4	3109.2	3265.7	3443.8	4037.6	4134.8	3724.5	3584.2	3551.8
65°	3514.0	2866.3	2812.3	2850.1	2925.6	3017.4	3352.1	3568.0	3287.3	3071.4	3060.6
67.5°	2569.4	2564.0	2607.2	2639.6	2671.9	2671.9	2752.9	2839.3	2801.5	2628.8	2612.6
70°	2283.3	2299.5	2331.9	2337.3	2348.1	2310.3	2245.5	2218.5	2261.7	2153.7	2132.2
72.5°	1883.9	1937.8	1975.6	1981.0	1921.6	1873.1	1786.7	1694.9	1662.5	1640.9	1635.6
75°	1446.6	1484.4	1500.6	1495.2	1473.6	1403.4	1300.9	1209.1	1149.7	1085.0	1117.4
77.5°	977.0	1031.0	1058.0	1058.0	1025.6	917.6	869.1	798.9	739.5	669.3	680.1
80°	685.5	723.3	766.5	761.1	707.1	653.1	583.0	518.2	469.6	415.6	410.2
82.5°	512.8	534.4	556.0	545.2	507.4	453.4	404.8	345.5	291.5	253.7	253.7
85°	183.5	199.7	242.9	253.7	275.3	275.3	232.1	194.3	156.5	129.5	129.5
87.5°	54.0	54.0	59.4	59.4	54.0	59.4	48.6	54.0	59.4	37.8	37.8
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)