

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: P531845

Luminaire Tested: **GALN-SA7A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14774 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 215
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

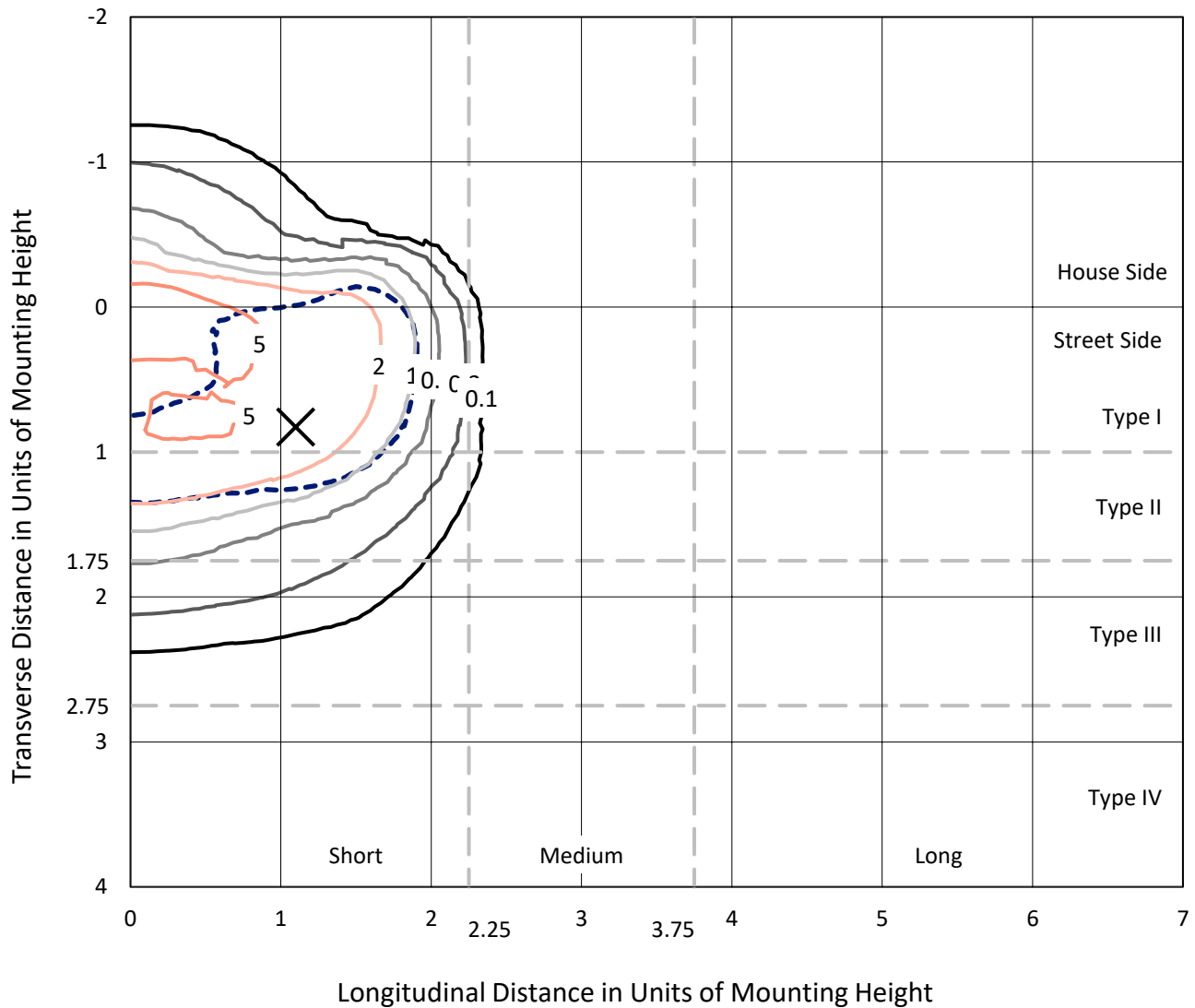


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

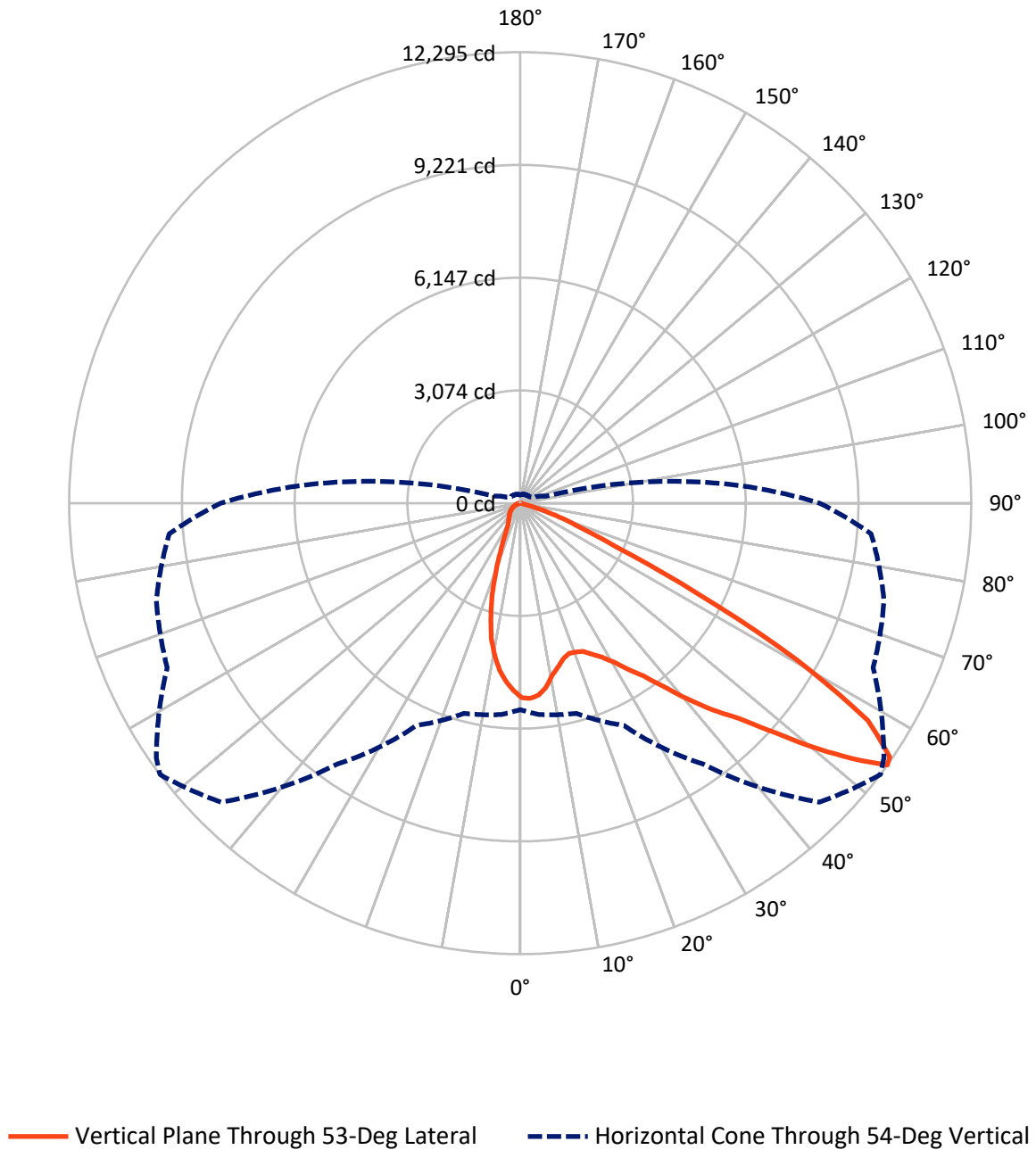


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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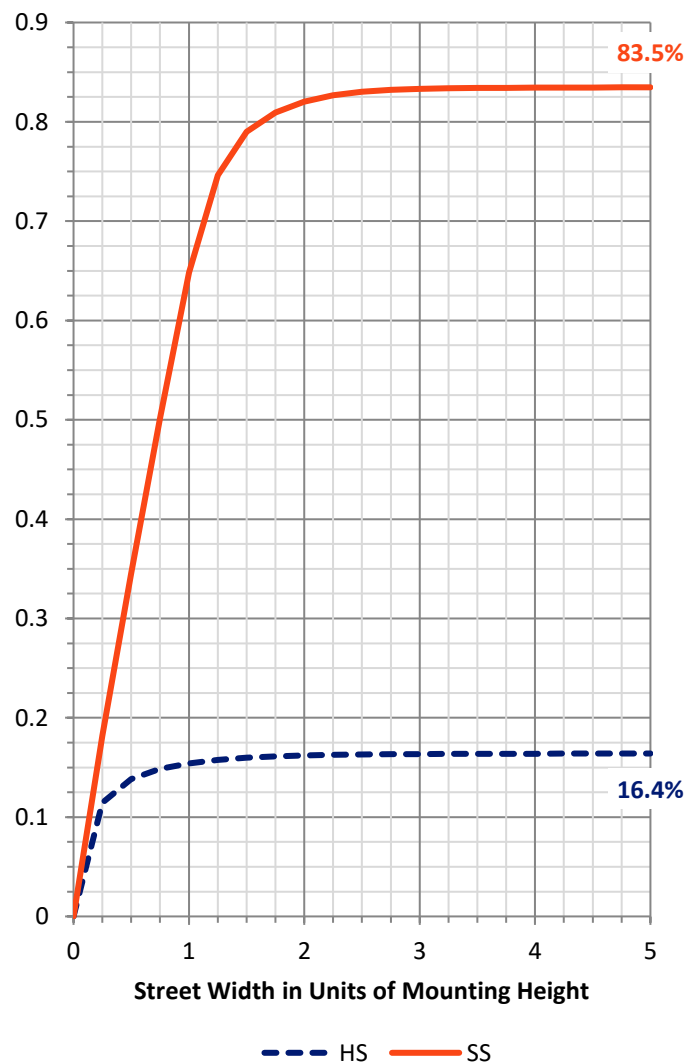
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2444.4	0.0	2444.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12329.6	0.0	12329.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	14774.0	0.0	14774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.3	3.1
10°-20°	1043.8	7.1
20°-30°	1483.5	10.0
30°-40°	2289.5	15.5
40°-50°	3589.7	24.3
50°-60°	4169.9	28.2
60°-70°	1575.6	10.7
70°-80°	149.8	1.0
80°-90°	16.9	0.1
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°	14774.0	100.0
0°-180°	14774.0	100.0

Coefficient of Utilization



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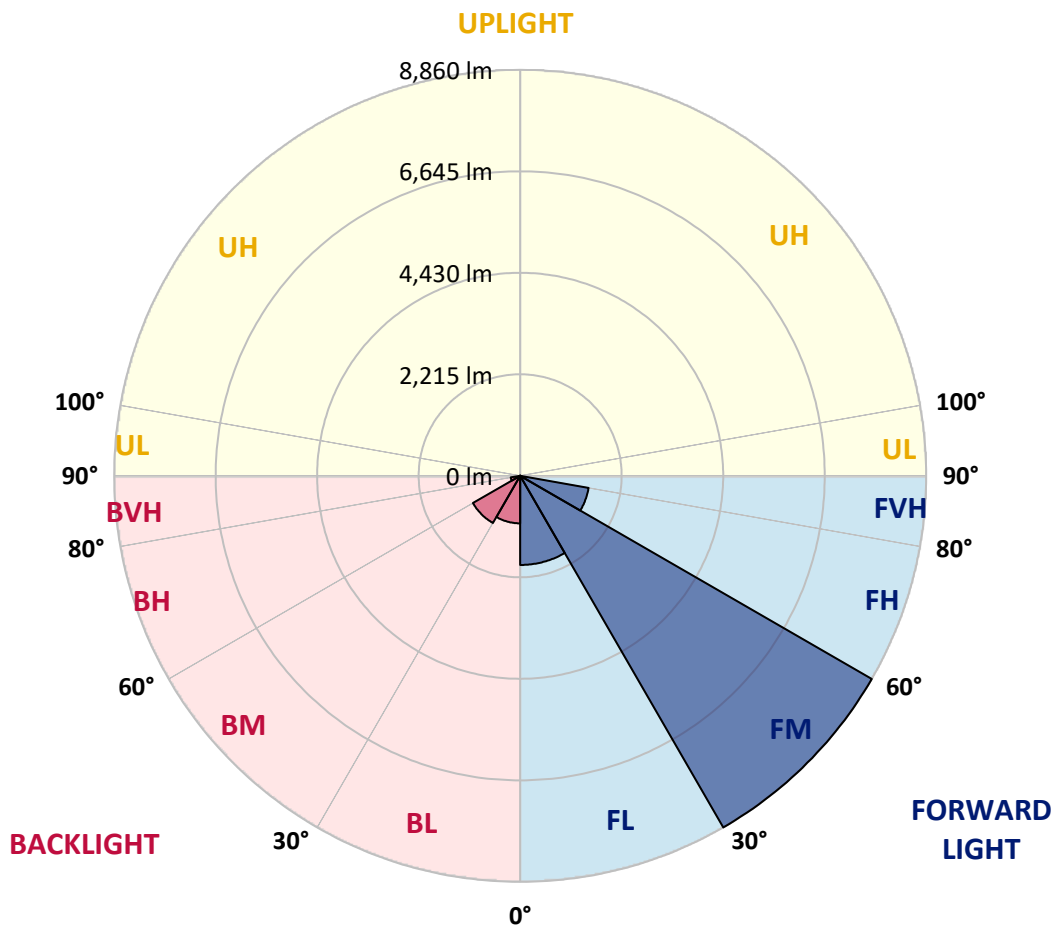
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1945.4	13.2			
FM	(30°-60°)	8859.5	60.0			
FH	(60°-80°)	1516.0	10.3			G1/1800
FVH	(80°-90°)	8.7	0.1			G0/10
BL	(0°-30°)	1037.3	7.0	B3/2500		
BM	(30°-60°)	1189.5	8.1	B2/2500		
BH	(60°-80°)	209.4	1.4	B1/500		G1/500
BVH	(80°-90°)	8.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6
2.5°	5279.0	5232.3	5279.0	5284.6	5317.6	5347.9	5328.6	5372.6	5347.9	5320.3	5312.1
5°	4852.4	4915.7	4918.5	5017.6	4995.6	5177.2	5257.0	5235.0	5369.9	5361.6	5342.4
7.5°	4469.9	4445.1	4478.1	4593.7	4739.6	4948.8	5064.4	5061.6	5254.3	5391.9	5378.1
10°	4114.8	4112.0	4180.9	4271.7	4395.5	4615.7	4775.4	4855.2	5155.2	5364.4	5394.6
12.5°	3875.3	3864.3	3938.6	4013.0	4208.4	4379.0	4582.7	4621.2	4965.3	5268.0	5317.6
15°	3718.5	3743.2	3748.7	3891.9	4015.7	4241.4	4401.0	4480.9	4877.2	5191.0	5380.9
17.5°	3690.9	3724.0	3726.7	3845.1	3977.2	4167.1	4307.5	4414.8	4802.9	5229.5	5383.6
20°	3746.0	3726.7	3743.2	3817.5	3946.9	4128.6	4332.2	4368.0	4778.1	5248.8	5413.9
22.5°	3902.9	3897.4	3856.1	3916.6	4007.5	4197.4	4390.0	4445.1	4849.7	5347.9	5438.7
25°	4076.3	4106.5	4068.0	4059.7	4123.1	4310.2	4566.2	4637.7	5089.1	5526.8	5515.8
27.5°	4401.0	4370.8	4370.8	4332.2	4315.7	4406.5	4756.1	4874.4	5356.1	5758.0	5603.8
30°	4712.1	4745.1	4720.3	4734.1	4624.0	4615.7	5025.8	5171.7	5829.5	6110.3	5791.0
32.5°	5204.7	5160.7	5202.0	5166.2	5020.3	4871.7	5391.9	5543.3	6402.0	6514.9	6071.7
35°	5614.8	5595.6	5771.7	5766.2	5529.5	5383.6	5780.0	6005.7	6801.1	6999.3	6402.0
37.5°	6198.3	6162.6	6363.5	6459.8	6247.9	6030.4	6336.0	6597.4	7172.7	7387.4	6740.6
40°	6798.4	6889.2	7158.9	7318.6	7092.9	6803.9	7015.8	7095.6	7420.4	7640.6	6971.8
42.5°	7558.0	7690.1	7965.4	8103.0	8083.7	7769.9	7706.6	7703.9	7599.3	7569.0	7142.4
45°	8287.4	8237.8	8661.7	8961.7	9203.9	9113.1	8372.7	8290.1	7882.8	7676.4	7186.4
47.5°	8606.7	8590.2	8879.1	9413.1	10238.8	10351.7	9341.5	9022.3	8361.7	8127.8	7425.9
50°	8193.8	8279.1	8565.4	9157.1	10423.2	11284.7	10530.6	10101.2	8920.4	8678.2	7992.9
52.5°	6845.1	6902.9	7175.4	7926.8	9795.7	11835.2	11670.1	11422.3	9947.1	9545.2	8981.0
54°	5628.6	5782.7	5931.4	6685.5	8678.2	11529.7	12294.8	12104.9	10615.9	10266.3	9603.0
55°	4902.0	4992.8	5100.1	5851.5	7904.8	11012.2	12223.3	12239.8	11064.5	10492.0	10021.4
57.5°	3580.8	3644.1	3534.0	3867.1	5427.7	8942.5	11180.1	11626.0	11670.1	10830.6	10277.4
60°	2735.9	2763.4	2639.5	2691.8	3374.4	6137.8	8648.0	9184.7	10527.8	9465.4	8705.8
62.5°	2122.1	2127.6	2124.8	2215.7	2325.8	3611.1	5408.4	5884.6	7258.0	6721.3	5912.1
65°	1563.3	1538.6	1582.6	1857.9	1984.5	2270.7	2848.7	3195.5	3944.1	3330.4	2380.8
67.5°	1012.9	1021.1	1065.2	1381.7	1701.0	1742.3	1753.3	1725.7	1728.5	952.3	597.3
70°	608.3	622.0	608.3	781.7	1216.5	1249.6	1142.2	1114.7	869.7	225.7	222.9
72.5°	360.6	341.3	305.5	335.8	506.4	605.5	545.0	542.2	341.3	132.1	132.1
75°	151.4	137.6	112.8	101.8	134.9	129.4	129.4	115.6	90.8	88.1	82.6
77.5°	30.3	30.3	22.0	24.8	33.0	38.5	46.8	46.8	55.0	55.0	52.3
80°	0.0	2.8	8.3	16.5	24.8	35.8	41.3	41.3	46.8	46.8	38.5
82.5°	0.0	2.8	8.3	16.5	22.0	33.0	41.3	41.3	46.8	49.5	41.3
85°	0.0	2.8	8.3	13.8	22.0	27.5	27.5	24.8	19.3	16.5	11.0
87.5°	0.0	0.0	2.8	5.5	2.8	5.5	5.5	5.5	5.5	5.5	5.5
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°	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6
2.5°	5331.3	5328.6	5262.5	5155.2	5130.4	5039.6	5028.6	4973.5	5003.8	4902.0	4891.0
5°	5287.3	5254.3	5174.5	5105.6	4904.7	4761.6	4648.8	4511.1	4431.3	4445.1	4392.8
7.5°	5350.6	5265.3	5124.9	4885.5	4640.5	4390.0	4255.2	3974.4	3872.6	3721.2	3699.2
10°	5284.6	5221.2	5003.8	4607.5	4268.9	3908.4	3591.8	3280.8	3044.1	2942.3	2920.3
12.5°	5279.0	5169.0	4805.6	4365.3	3875.3	3357.9	2898.2	2510.2	2276.2	2144.1	2113.8
15°	5193.7	5061.6	4582.7	3990.9	3313.9	2669.8	2168.9	1794.5	1615.6	1538.6	1560.6
17.5°	5202.0	5003.8	4359.8	3594.6	2760.6	1959.7	1480.8	1288.1	1241.3	1260.6	1260.6
20°	5193.7	4874.4	4090.0	3137.7	2113.8	1359.7	1087.2	1018.4	1048.7	1109.2	1095.4
22.5°	5149.7	4813.9	3842.3	2656.0	1555.1	1007.4	872.5	875.3	922.0	996.4	1012.9
25°	5182.7	4679.0	3528.5	2168.9	1134.0	803.7	756.9	776.2	825.7	880.8	891.8
27.5°	5157.9	4582.7	3201.0	1684.5	828.5	690.8	688.1	710.1	732.1	773.4	773.4
30°	5185.5	4494.6	2879.0	1252.3	682.6	633.0	622.0	638.6	660.6	668.8	666.1
32.5°	5287.3	4428.6	2507.4	935.8	602.8	578.0	578.0	578.0	575.2	586.3	589.0
35°	5510.2	4439.6	2179.9	723.9	550.5	531.2	523.0	511.9	506.4	511.9	514.7
37.5°	5752.5	4434.1	1841.3	616.5	511.9	495.4	476.2	459.6	456.9	462.4	454.1
40°	5859.8	4486.4	1527.6	553.2	476.2	456.9	426.6	412.9	415.6	421.1	415.6
42.5°	6005.7	4502.9	1323.9	503.7	443.1	412.9	393.6	377.1	374.3	382.6	379.8
45°	6002.9	4409.3	1109.2	476.2	412.9	379.8	355.1	341.3	341.3	346.8	349.6
47.5°	6179.1	4395.5	952.3	451.4	390.8	357.8	327.5	316.5	313.8	313.8	308.3
50°	6589.2	4588.2	831.2	423.9	363.3	333.0	308.3	294.5	283.5	278.0	275.2
52.5°	7390.1	5188.2	737.6	390.8	333.0	308.3	286.2	275.2	261.5	247.7	245.0
54°	8166.3	5807.5	732.1	363.3	308.3	291.8	272.5	267.0	250.5	231.2	225.7
55°	8515.8	6168.1	751.4	341.3	291.8	280.7	264.2	258.7	242.2	220.2	217.4
57.5°	8804.8	6308.4	740.4	283.5	264.2	261.5	247.7	239.5	220.2	189.9	184.4
60°	7087.4	4769.9	531.2	250.5	242.2	236.7	225.7	220.2	195.4	162.4	159.6
62.5°	4478.1	2744.1	338.5	220.2	211.9	203.7	189.9	184.4	162.4	129.4	121.1
65°	1907.4	1136.7	228.4	195.4	181.7	167.9	156.9	148.6	129.4	96.3	93.6
67.5°	495.4	404.6	189.9	170.6	151.4	132.1	123.9	110.1	88.1	66.1	63.3
70°	222.9	203.7	159.6	143.1	121.1	101.8	90.8	77.1	57.8	44.0	41.3
72.5°	132.1	129.4	121.1	107.3	90.8	77.1	66.1	52.3	38.5	24.8	24.8
75°	82.6	79.8	82.6	74.3	63.3	57.8	49.5	35.8	22.0	11.0	11.0
77.5°	49.5	49.5	49.5	46.8	44.0	44.0	35.8	22.0	11.0	2.8	2.8
80°	38.5	38.5	41.3	38.5	38.5	38.5	30.3	16.5	5.5	0.0	0.0
82.5°	38.5	41.3	46.8	44.0	38.5	33.0	27.5	16.5	5.5	0.0	0.0
85°	11.0	8.3	13.8	19.3	27.5	24.8	19.3	13.8	5.5	0.0	0.0
87.5°	5.5	5.5	5.5	5.5	2.8	2.8	2.8	2.8	2.8	0.0	0.0
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)