Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P529975

Luminaire Tested: **GALN-SA5A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Report Generated By 670246001

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P529975
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab:	INNOVATION CENTER
Issue Date:	5/27/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SA5A-830-U-SL3-GRSBK
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10643 lumens
Efficiency:	N/A
Efficacy:	69.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	154
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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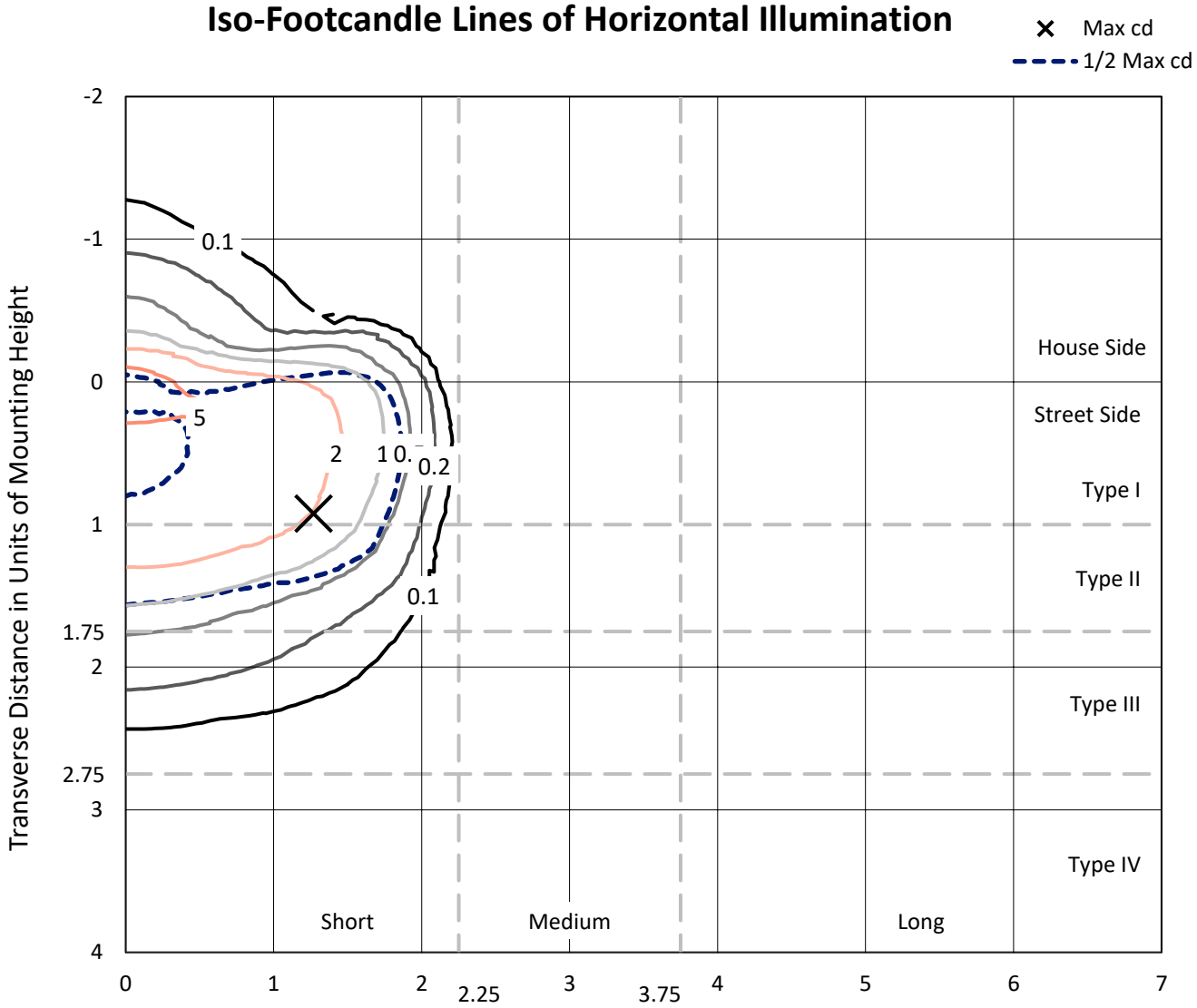
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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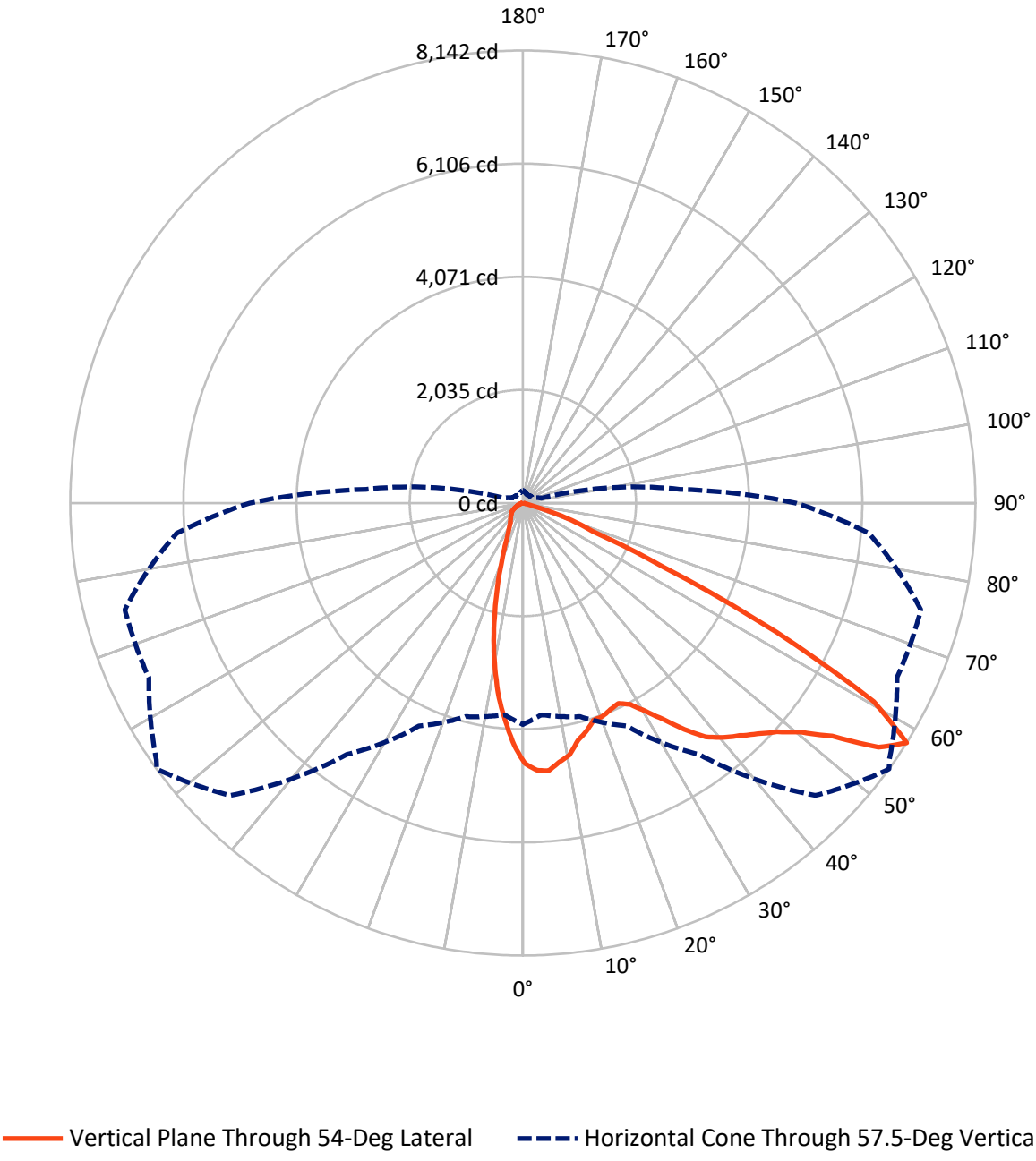
Luminous Intensity Polar Plot



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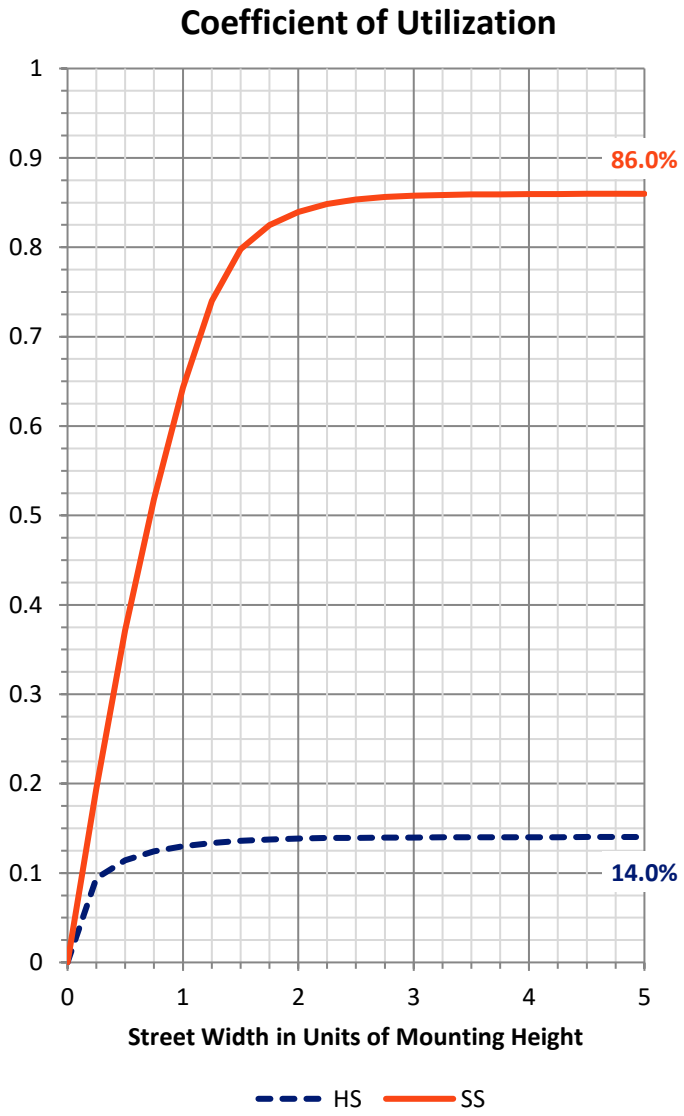
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1504.0	0.0	1504.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9139.0	0.0	9139.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	10643.0	0.0	10643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.3	3.7
10°-20°	837.6	7.9
20°-30°	1110.0	10.4
30°-40°	1613.2	15.2
40°-50°	2392.1	22.5
50°-60°	2991.2	28.1
60°-70°	1179.9	11.1
70°-80°	117.5	1.1
80°-90°	9.1	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°	10643.0	100.0
0°-180°	10643.0	100.0



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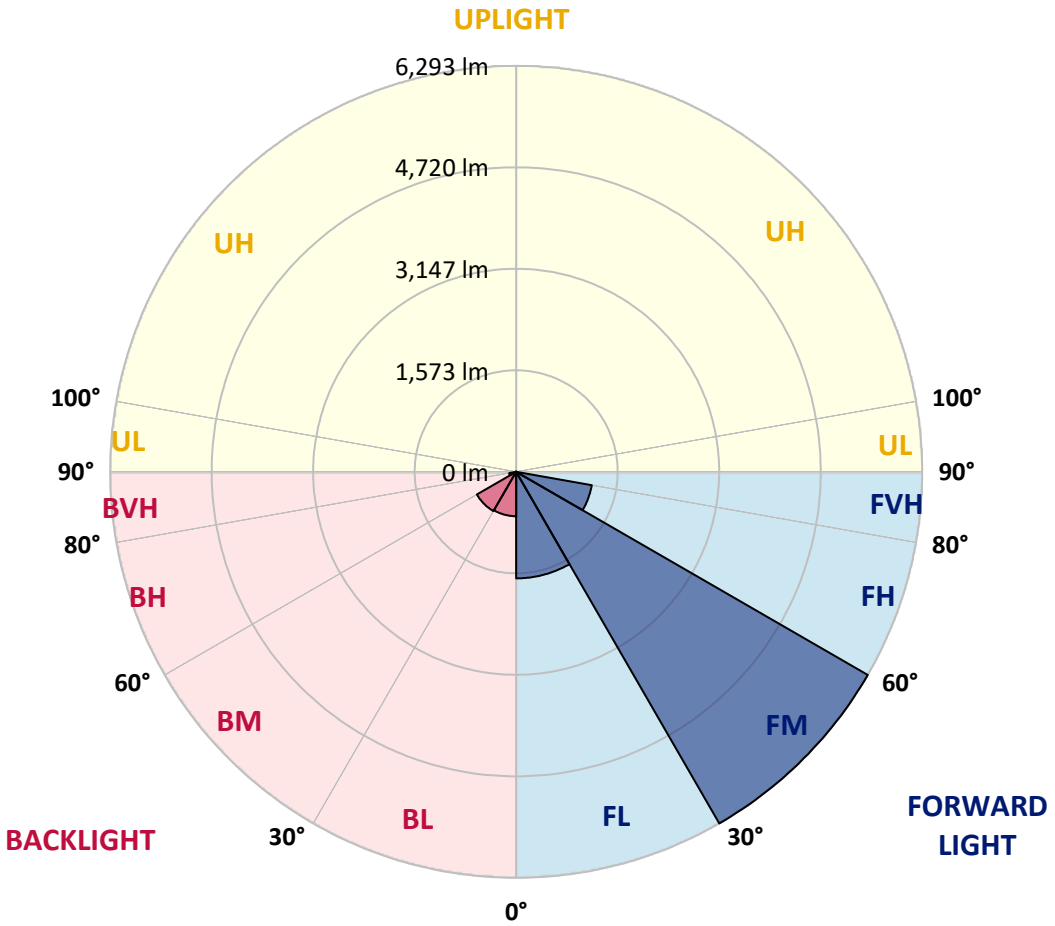
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1652.1	15.5			
FM	(30°-60°)	6293.2	59.1			
FH	(60°-80°)	1189.5	11.2			G1/1800
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	687.9	6.5	B2/1000		
BM	(30°-60°)	703.3	6.6	B1/1000		
BH	(60°-80°)	107.9	1.0	B0/110		G0/110
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4
2.5°	4961.5	4910.0	4914.0	4896.2	4872.4	4890.2	4813.1	4830.9	4828.9	4724.0	4654.7
5°	4836.8	4892.2	4834.8	4882.3	4836.8	4886.3	4838.8	4803.2	4745.8	4668.6	4540.0
7.5°	4625.1	4571.6	4587.5	4646.8	4656.7	4767.5	4708.2	4753.7	4729.9	4577.6	4401.4
10°	4199.6	4187.7	4266.8	4346.0	4443.0	4561.7	4607.2	4581.5	4563.7	4506.3	4270.8
12.5°	3873.0	3906.7	3904.7	4035.3	4199.6	4266.8	4385.6	4381.6	4480.6	4373.7	4148.1
15°	3562.3	3580.1	3663.2	3744.4	3926.4	4118.4	4264.9	4284.7	4403.4	4328.2	4053.1
17.5°	3372.3	3346.6	3411.9	3508.9	3694.9	3946.2	4108.5	4156.0	4318.3	4302.5	3944.3
20°	3184.3	3184.3	3237.7	3352.5	3522.7	3805.7	4094.7	4080.8	4318.3	4272.8	3827.5
22.5°	3121.0	3152.6	3166.5	3253.6	3455.4	3698.9	4035.3	4061.0	4351.9	4258.9	3776.0
25°	3208.1	3166.5	3170.4	3239.7	3429.7	3647.4	3991.8	4049.1	4413.3	4328.2	3734.5
27.5°	3221.9	3263.5	3275.3	3322.8	3449.5	3663.2	4100.6	4217.4	4565.7	4490.5	3746.4
30°	3342.6	3384.2	3382.2	3463.3	3550.4	3791.9	4344.0	4367.8	4880.4	4694.3	3819.6
32.5°	3489.1	3532.6	3546.5	3641.5	3710.7	4027.4	4640.9	4702.2	5183.1	5014.9	4011.5
35°	3671.1	3655.3	3718.6	3813.6	3962.1	4371.7	5003.1	5106.0	5509.7	5430.5	4209.5
37.5°	3898.7	3879.0	3940.3	4094.7	4296.5	4779.4	5337.5	5404.8	5747.2	5816.4	4575.6
40°	4059.0	4067.0	4253.0	4460.8	4674.5	5167.3	5549.3	5614.6	5913.4	6176.6	4852.6
42.5°	4326.2	4375.7	4599.3	4852.6	5076.3	5458.2	5721.5	5784.8	5990.6	6465.6	5226.7
45°	4714.1	4692.3	4939.7	5222.7	5470.1	5761.0	5925.3	5903.5	6036.1	6752.5	5462.2
47.5°	5212.8	5216.8	5381.1	5622.5	5879.8	6024.2	6152.9	6075.7	6131.1	7055.3	5776.9
50°	5553.2	5582.9	5715.5	5962.9	6091.5	6313.2	6477.5	6430.0	6412.1	7237.4	5974.8
52.5°	5640.3	5729.4	5800.6	6109.3	6410.2	6760.5	6970.2	7071.2	6754.5	7298.8	6226.1
55°	4983.3	5062.4	5313.8	5737.3	6530.9	7469.0	7757.9	7759.9	7201.8	7571.9	6402.2
57.5°	3983.8	3823.5	3977.9	4427.1	5521.6	7439.3	8141.8	8048.8	7425.4	7411.6	6249.9
60°	2754.8	2715.3	2725.2	2903.3	3821.6	5917.4	7255.2	7375.9	6837.6	6424.0	4947.6
62.5°	2182.9	2149.3	2105.7	2085.9	2372.9	3687.0	5117.8	5288.0	4781.4	4165.9	2933.0
65°	1709.9	1690.1	1696.1	1775.2	1773.2	2091.9	2798.4	2729.1	2184.9	1614.9	922.2
67.5°	1153.8	1183.5	1207.2	1446.7	1569.4	1456.6	1351.7	1312.1	710.5	298.8	203.8
70°	649.1	653.1	678.8	904.4	1191.4	1130.0	932.1	932.1	354.3	108.8	116.8
72.5°	354.3	342.4	318.6	389.9	530.4	538.3	415.6	362.2	104.9	71.2	65.3
75°	172.2	170.2	146.5	120.7	114.8	95.0	73.2	67.3	47.5	45.5	39.6
77.5°	35.6	33.6	17.8	17.8	19.8	21.8	27.7	27.7	33.6	33.6	27.7
80°	0.0	0.0	2.0	7.9	13.9	19.8	23.7	23.7	27.7	27.7	21.8
82.5°	0.0	0.0	2.0	5.9	11.9	17.8	21.8	23.7	27.7	29.7	23.7
85°	0.0	0.0	0.0	4.0	9.9	13.9	11.9	11.9	9.9	7.9	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4	4688.4
2.5°	4619.1	4615.2	4524.1	4472.7	4379.7	4298.5	4233.2	4185.7	4185.7	4156.0	4128.3
5°	4488.5	4454.9	4260.9	4136.2	3960.1	3829.5	3740.4	3671.1	3562.3	3592.0	3475.2
7.5°	4326.2	4241.1	3983.8	3793.9	3550.4	3364.4	3174.4	3006.2	2843.9	2770.7	2810.3
10°	4152.1	4003.6	3657.3	3356.5	3053.7	2713.3	2491.6	2222.5	2056.2	2046.3	2002.8
12.5°	3968.0	3799.8	3378.2	2962.6	2564.9	2155.2	1816.8	1565.4	1452.6	1327.9	1351.7
15°	3829.5	3580.1	3067.5	2566.8	2038.4	1624.8	1284.4	1090.5	983.6	953.9	944.0
17.5°	3679.1	3411.9	2750.9	2145.3	1599.1	1169.6	924.2	831.2	789.6	789.6	783.7
20°	3522.7	3221.9	2436.2	1753.4	1199.3	872.8	740.2	710.5	708.5	706.5	706.5
22.5°	3419.8	3004.2	2151.2	1393.3	904.4	698.6	643.2	631.3	639.2	663.0	663.0
25°	3311.0	2794.4	1836.6	1074.6	700.6	599.7	568.0	575.9	595.7	617.5	609.5
27.5°	3200.1	2657.9	1539.7	843.1	573.9	524.4	512.6	530.4	552.2	571.9	566.0
30°	3174.4	2511.4	1258.7	639.2	492.8	457.2	465.1	480.9	502.7	510.6	518.5
32.5°	3214.0	2396.6	1031.1	524.4	429.5	419.6	419.6	427.5	441.3	459.1	453.2
35°	3326.8	2331.3	815.4	455.2	393.8	383.9	382.0	389.9	397.8	403.7	397.8
37.5°	3499.0	2279.9	666.9	403.7	370.1	354.3	350.3	348.3	356.2	358.2	362.2
40°	3718.6	2307.6	566.0	372.1	346.3	328.5	316.6	316.6	316.6	322.6	324.6
42.5°	3956.1	2345.2	488.8	354.3	324.6	302.8	290.9	287.0	290.9	298.8	296.9
45°	4205.5	2418.4	439.4	326.5	304.8	277.1	261.2	257.3	267.2	283.0	281.0
47.5°	4439.0	2523.3	401.7	308.7	285.0	259.3	239.5	235.5	253.3	275.1	277.1
50°	4672.6	2705.4	387.9	294.9	271.1	241.4	223.6	219.7	239.5	267.2	273.1
52.5°	4941.7	2901.3	378.0	277.1	255.3	227.6	207.8	203.8	225.6	261.2	263.2
55°	5117.8	3067.5	370.1	245.4	225.6	205.8	190.0	188.0	211.8	243.4	251.3
57.5°	*4912.0*	*2836.0*	*342.4*	*213.7*	*192.0*	*182.1*	*168.2*	*168.2*	*188.0*	*217.7*	*223.6*
60°	3724.6	1866.3	243.4	172.2	162.3	156.3	150.4	150.4	166.2	188.0	190.0
62.5°	2180.9	1005.4	156.3	138.5	138.5	132.6	122.7	122.7	138.5	150.4	152.4
65°	647.2	322.6	126.7	118.7	116.8	106.9	97.0	95.0	106.9	112.8	110.8
67.5°	186.0	148.4	104.9	99.0	97.0	81.1	75.2	73.2	75.2	71.2	69.3
70°	110.8	100.9	81.1	83.1	73.2	59.4	53.4	51.5	47.5	41.6	37.6
72.5°	61.4	61.4	59.4	63.3	51.5	39.6	33.6	27.7	21.8	17.8	15.8
75°	37.6	39.6	41.6	43.5	33.6	25.7	21.8	13.9	7.9	4.0	4.0
77.5°	25.7	27.7	29.7	31.7	27.7	23.7	17.8	9.9	2.0	0.0	0.0
80°	19.8	21.8	25.7	27.7	29.7	31.7	23.7	9.9	2.0	0.0	0.0
82.5°	21.8	23.7	29.7	27.7	27.7	27.7	21.8	9.9	2.0	0.0	0.0
85°	4.0	5.9	9.9	9.9	13.9	17.8	13.9	4.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)