

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: P454079

Luminaire Tested: **GALN-SA5A-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14910 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

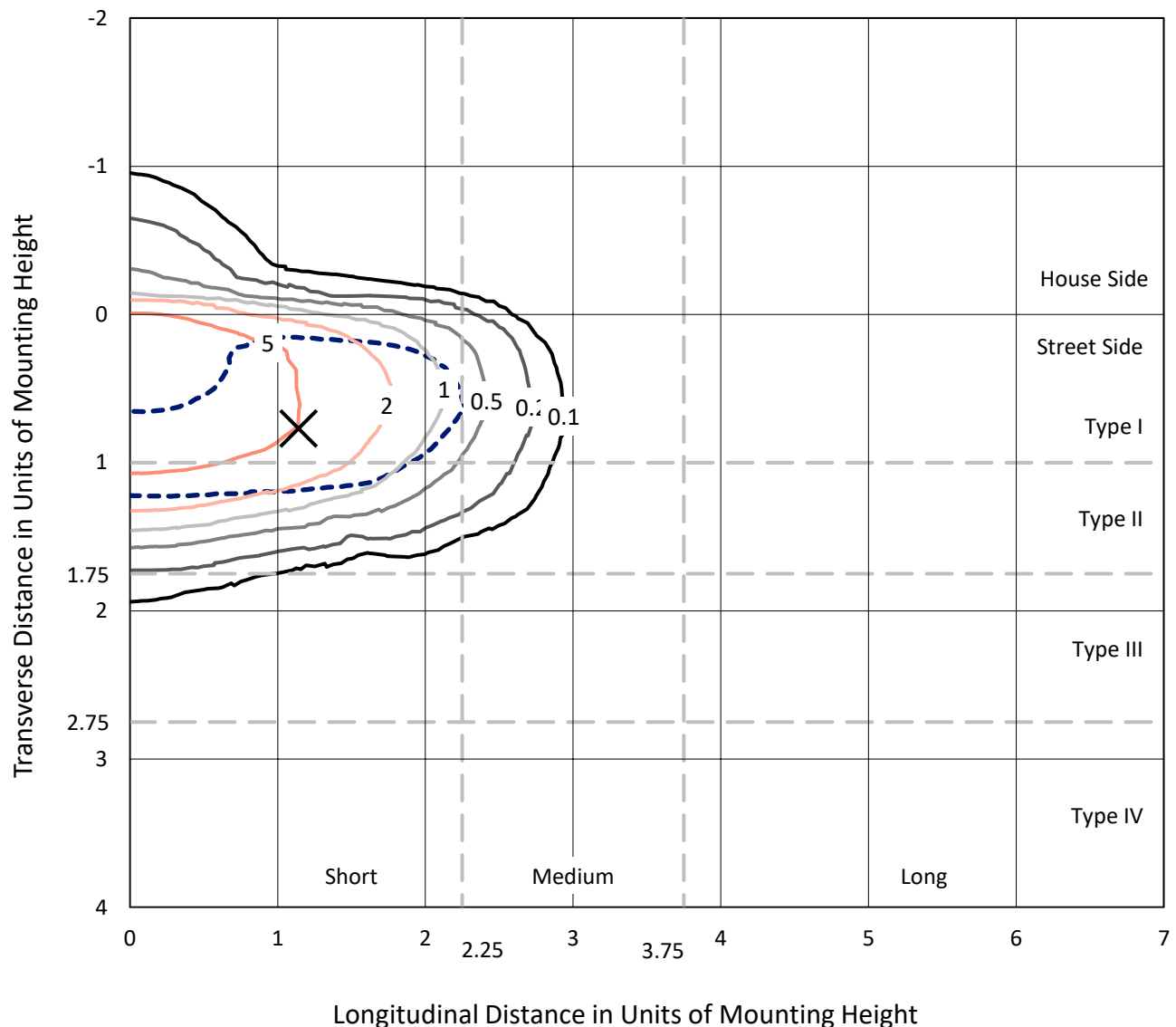


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

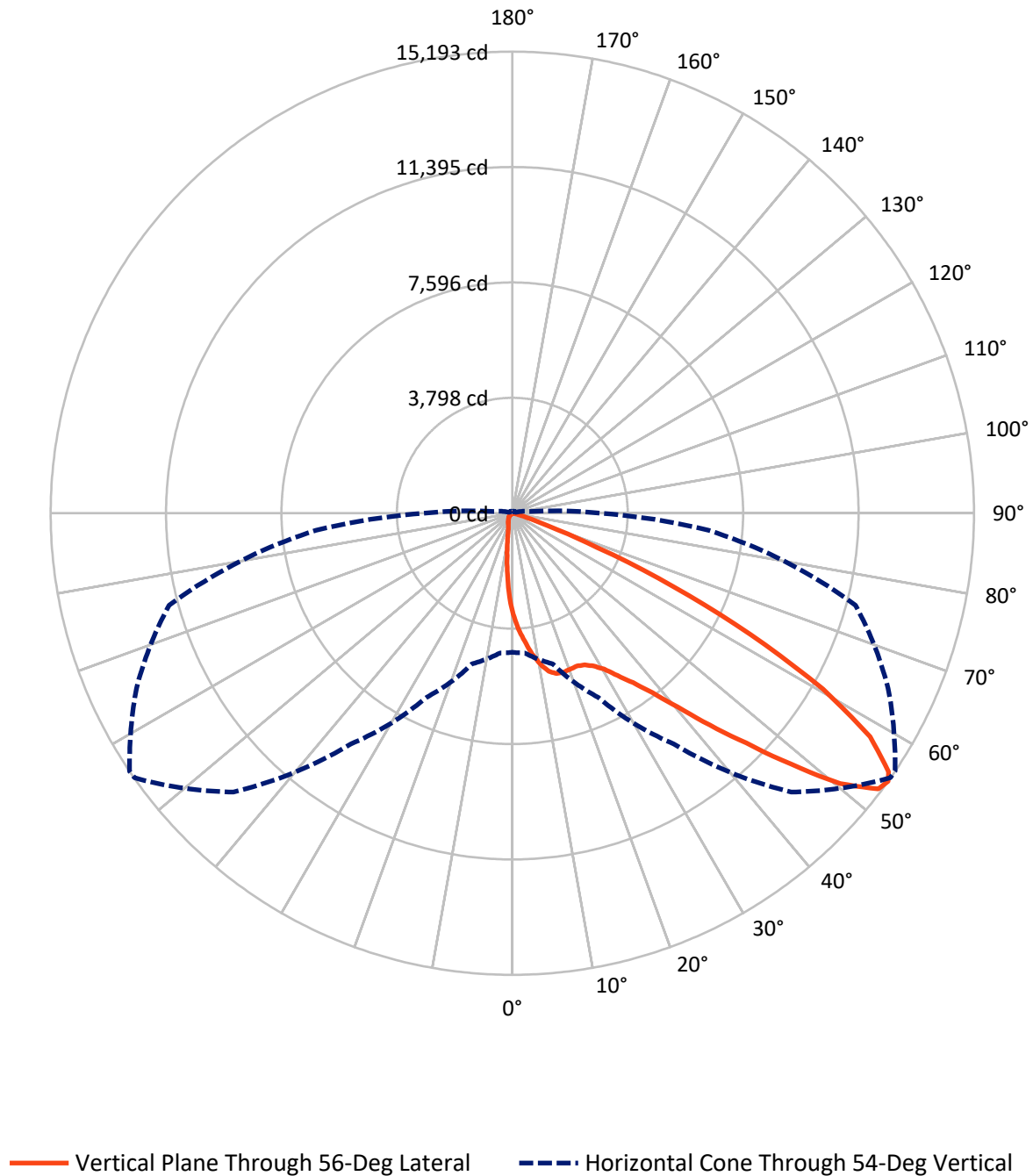


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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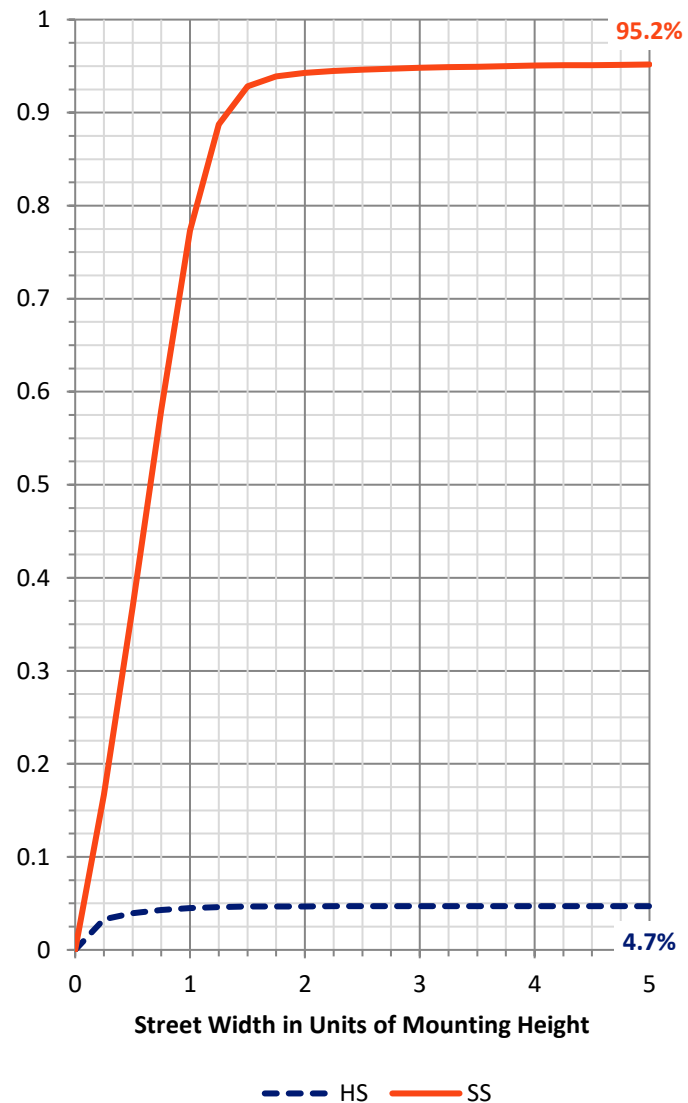
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.1	0.0	705.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	14204.9	0.0	14204.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	14910.0	0.0	14910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	2.0
10°-20°	791.3	5.3
20°-30°	1370.5	9.2
30°-40°	2365.7	15.9
40°-50°	4026.5	27.0
50°-60°	3984.7	26.7
60°-70°	1818.7	12.2
70°-80°	233.6	1.6
80°-90°	26.3	0.2
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°	14910.0	100.0
0°-180°	14910.0	100.0

Coefficient of Utilization



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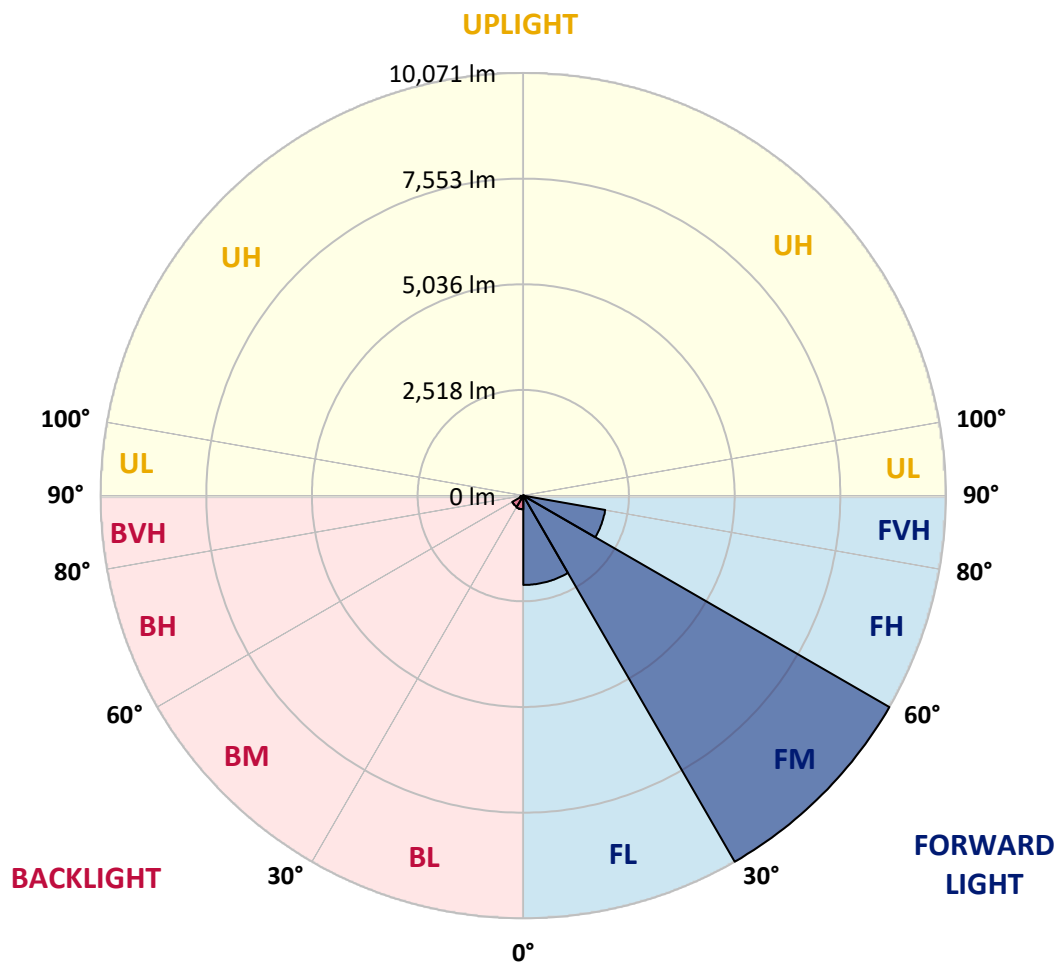
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2128.5	14.3			
FM	(30°-60°)	10071.3	67.5			
FH	(60°-80°)	1981.7	13.3			G2/5000
FVH	(80°-90°)	23.5	0.2			G1/100
BL	(0°-30°)	326.1	2.2	B1/500		
BM	(30°-60°)	305.6	2.0	B1/1000		
BH	(60°-80°)	70.6	0.5	B0/110		G0/110
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6
2.5°	4209.9	4180.7	4140.5	4109.3	4035.8	3930.2	3818.6	3818.6	3710.9	3561.0	3408.1
5°	4855.7	4836.6	4797.3	4716.9	4634.4	4486.5	4262.2	4223.0	4030.8	3759.2	3473.5
7.5°	5118.2	5127.3	5129.3	5108.2	5069.0	4923.1	4700.8	4673.6	4366.8	4002.7	3559.0
10°	4866.8	4911.0	4954.3	5041.8	5165.5	5200.7	5075.0	5046.8	4745.0	4249.1	3651.6
12.5°	4492.5	4516.7	4540.8	4678.6	4927.1	5211.8	5343.6	5342.6	5087.1	4494.6	3769.3
15°	4318.5	4339.6	4341.7	4403.0	4618.3	5032.7	5458.3	5473.3	5421.0	4797.3	3896.0
17.5°	4354.7	4371.8	4357.7	4372.8	4485.5	4835.6	5445.2	5495.5	5691.6	5088.1	4010.7
20°	4591.1	4624.3	4570.0	4527.8	4562.0	4783.3	5400.9	5471.3	5882.8	5371.7	4115.3
22.5°	5015.6	5033.7	4965.3	4849.7	4789.3	4892.9	5388.8	5458.3	6045.7	5604.1	4175.7
25°	5487.4	5481.4	5405.9	5276.2	5149.4	5114.2	5468.3	5530.7	6180.5	5813.4	4193.8
27.5°	5959.2	5977.3	5850.6	5689.6	5537.7	5446.2	5646.4	5692.6	6332.4	6051.8	4215.9
30°	6507.5	6478.3	6353.5	6169.5	5995.4	5867.7	5933.1	5946.1	6541.7	6367.6	4274.3
32.5°	7220.7	7140.2	7000.4	6678.5	6553.7	6337.4	6353.5	6369.6	6796.2	6680.5	4344.7
35°	8188.4	8184.4	7910.7	7477.2	7173.4	6904.8	6834.4	6847.5	7181.4	7145.2	4500.6
37.5°	9353.3	9369.4	9057.5	8620.9	8061.6	7635.1	7490.3	7492.3	7766.9	7787.0	4738.0
40°	10301.9	10344.1	10158.0	9863.3	9311.0	8644.1	8400.6	8378.5	8589.8	8564.6	5077.0
42.5°	10710.3	10749.5	10818.9	10921.5	10617.7	10067.5	9493.1	9523.3	9587.7	9411.6	5457.2
45°	10510.1	10572.5	10845.1	11478.8	11764.5	11579.4	10894.4	10788.7	10516.1	10332.1	5839.5
47.5°	9676.2	9828.1	10283.8	11339.0	12338.9	12964.6	12475.7	12335.9	11445.6	11004.0	6082.9
50°	8305.1	8314.1	8948.9	10297.8	12041.1	13838.8	14090.3	13985.6	12311.7	11381.2	6205.7
52.5°	6020.6	6218.7	6800.2	8362.4	10751.5	13706.0	15119.3	15076.1	13205.0	11574.4	6382.7
54°	4577.0	4615.3	5132.3	6682.5	9269.8	12976.7	15182.7	15192.8	13648.6	11691.1	6487.3
55°	3752.2	3660.6	4203.8	5692.6	8258.8	12331.9	14975.5	15023.8	13847.8	11751.4	6564.8
57.5°	1778.5	1779.5	2195.0	3002.7	5172.6	9575.6	13709.0	13880.0	13870.0	11855.0	6803.2
60°	900.3	906.4	997.9	1386.2	2555.1	6365.6	11335.0	11742.4	12802.6	11870.1	6881.7
62.5°	629.7	622.7	607.6	666.9	1075.4	3235.1	8438.9	8793.0	10877.3	11295.7	6632.2
65°	539.2	524.1	481.8	472.8	543.2	1288.6	5256.1	5833.5	8305.1	9780.8	5922.0
67.5°	460.7	454.7	416.5	393.3	384.3	561.3	2712.0	3015.8	5676.5	7030.5	4485.5
70°	391.3	388.3	365.2	336.0	310.8	336.0	1005.9	1246.4	3163.7	3785.4	2116.5
72.5°	317.9	320.9	324.9	287.7	261.5	238.4	429.5	500.0	1323.8	1353.0	740.4
75°	278.6	275.6	275.6	250.5	218.3	177.0	236.4	254.5	405.4	376.2	172.0
77.5°	196.2	189.1	221.3	206.2	182.1	125.7	134.8	142.8	168.0	143.8	80.5
80°	135.8	135.8	141.8	185.1	164.0	91.5	82.5	88.5	99.6	85.5	46.3
82.5°	76.5	78.5	92.5	98.6	95.6	61.4	54.3	55.3	66.4	58.3	29.2
85°	9.1	15.1	53.3	52.3	39.2	27.2	30.2	31.2	41.2	36.2	17.1
87.5°	1.0	2.0	11.1	14.1	10.1	11.1	11.1	11.1	14.1	16.1	12.1
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°	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6	3312.6
2.5°	3325.7	3249.2	3067.1	2855.9	2721.1	2501.8	2316.7	2182.9	2149.7	2085.3	2104.4
5°	3321.6	3162.7	2791.5	2399.2	1980.7	1668.9	1436.5	1253.4	1172.9	1119.6	1082.4
7.5°	3323.6	3075.2	2479.7	1855.0	1355.0	1049.2	833.9	722.3	647.8	616.6	620.7
10°	3329.7	2976.6	2117.5	1374.1	914.4	678.0	546.2	492.9	467.8	463.7	462.7
12.5°	3343.8	2869.0	1771.5	1020.0	639.8	492.9	442.6	424.5	416.5	416.5	413.4
15°	3358.8	2750.3	1483.8	758.5	492.9	423.5	400.4	391.3	386.3	386.3	385.3
17.5°	3358.8	2613.4	1215.2	588.5	424.5	389.3	371.2	359.1	355.1	355.1	354.1
20°	3337.7	2454.5	976.8	473.8	385.3	357.1	339.0	325.9	320.9	318.9	317.9
22.5°	3264.3	2242.2	777.6	407.4	353.1	328.9	305.8	290.7	286.7	284.7	285.7
25°	3133.5	2002.8	615.6	358.1	323.9	294.7	274.6	263.6	259.5	259.5	260.5
27.5°	2998.7	1752.4	487.9	320.9	288.7	262.6	246.5	239.4	238.4	241.4	242.4
30°	2874.0	1500.9	395.3	290.7	257.5	235.4	224.3	222.3	222.3	223.3	224.3
32.5°	2735.2	1280.6	331.0	264.6	232.4	213.3	207.2	207.2	209.2	209.2	211.2
35°	2647.6	1091.4	290.7	239.4	213.3	197.2	193.1	194.1	197.2	201.2	203.2
37.5°	2600.4	940.6	264.6	219.3	195.2	184.1	180.1	182.1	189.1	196.2	197.2
40°	2604.4	826.9	243.4	202.2	181.1	169.0	166.0	172.0	179.1	186.1	187.1
42.5°	2648.7	742.4	223.3	182.1	169.0	151.9	150.9	156.9	159.9	167.0	168.0
45°	2701.0	681.0	202.2	161.0	146.9	131.8	132.8	137.8	141.8	152.9	154.9
47.5°	2717.1	638.8	178.1	136.8	120.7	115.7	116.7	119.7	127.8	137.8	138.8
50°	2735.2	612.6	154.9	115.7	102.6	101.6	102.6	104.6	109.6	113.7	112.7
52.5°	2812.6	611.6	135.8	100.6	87.5	89.5	90.5	89.5	85.5	79.5	77.5
54°	2885.0	614.6	126.7	93.6	80.5	83.5	82.5	77.5	67.4	61.4	58.3
55°	2943.4	617.6	121.7	88.5	76.5	77.5	78.5	68.4	55.3	49.3	47.3
57.5°	3058.1	610.6	109.6	77.5	67.4	63.4	62.4	45.3	30.2	26.2	24.1
60°	3000.7	551.3	99.6	66.4	57.3	51.3	42.2	25.1	15.1	11.1	11.1
62.5°	2775.4	467.8	88.5	54.3	47.3	39.2	22.1	14.1	7.0	4.0	3.0
65°	2482.7	393.3	79.5	43.3	37.2	25.1	12.1	9.1	3.0	0.0	0.0
67.5°	1845.9	291.7	67.4	34.2	28.2	16.1	8.0	5.0	1.0	0.0	0.0
70°	855.1	178.1	57.3	26.2	20.1	12.1	6.0	3.0	0.0	0.0	0.0
72.5°	245.5	111.7	47.3	19.1	14.1	10.1	5.0	2.0	1.0	0.0	0.0
75°	85.5	89.5	35.2	14.1	11.1	7.0	4.0	2.0	1.0	0.0	0.0
77.5°	51.3	72.4	22.1	12.1	9.1	6.0	4.0	2.0	1.0	1.0	0.0
80°	29.2	48.3	14.1	10.1	8.0	5.0	3.0	2.0	1.0	1.0	0.0
82.5°	16.1	23.1	11.1	9.1	7.0	5.0	3.0	2.0	1.0	1.0	1.0
85°	13.1	12.1	9.1	8.0	6.0	4.0	3.0	1.0	0.0	0.0	0.0
87.5°	10.1	8.0	8.0	8.0	6.0	4.0	3.0	1.0	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)