

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: P192872

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19839.3 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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: 25 FT

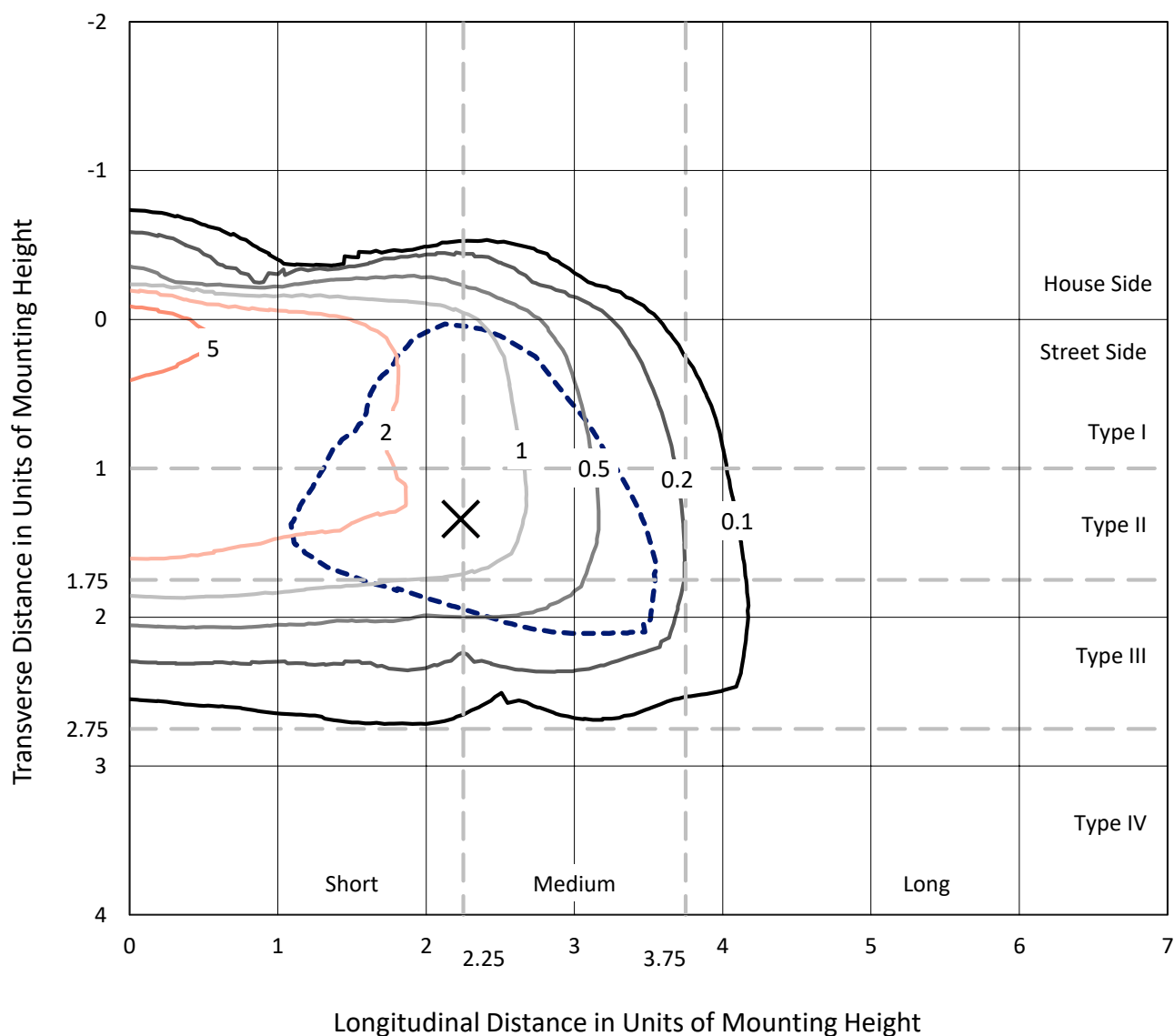


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

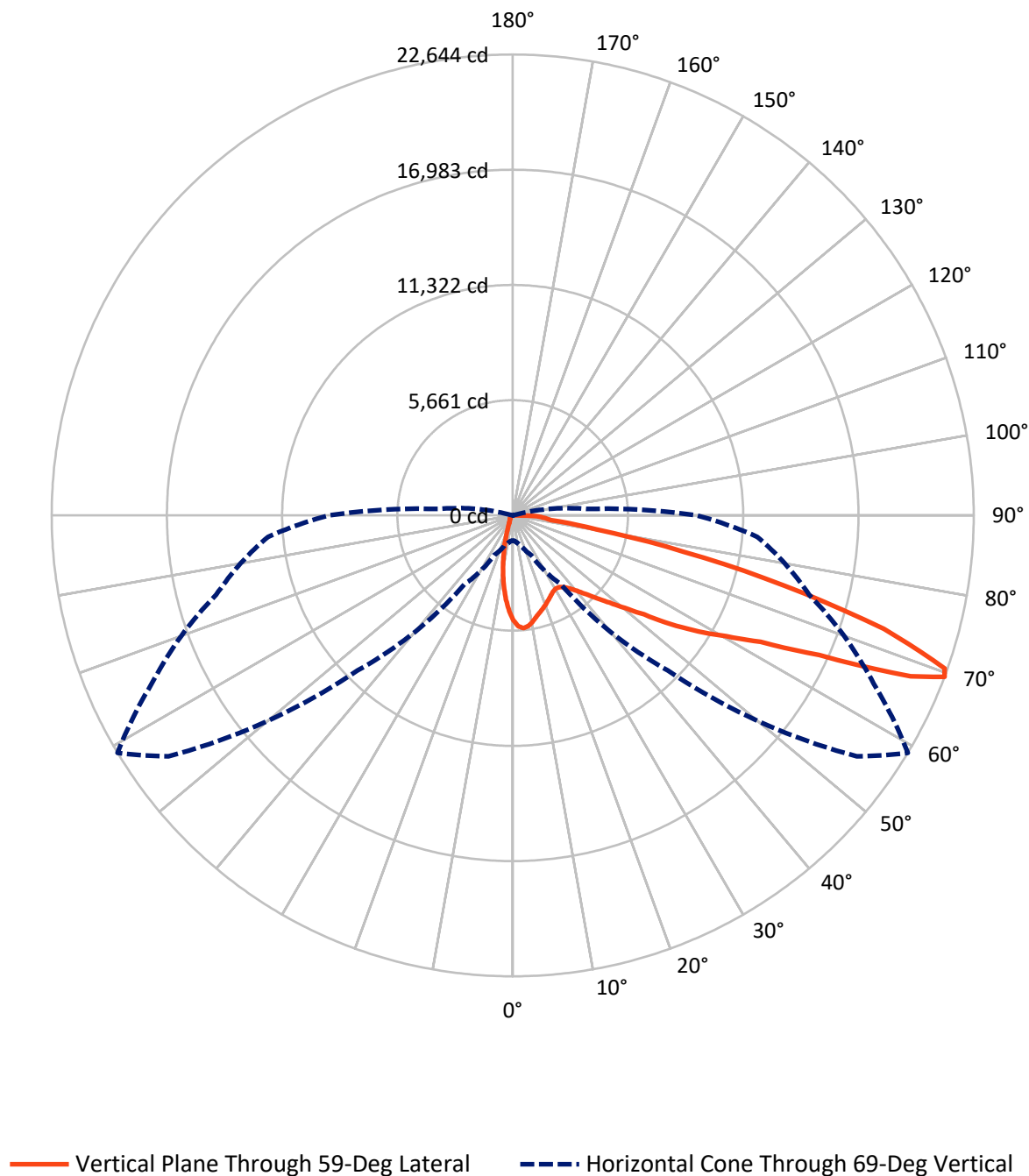


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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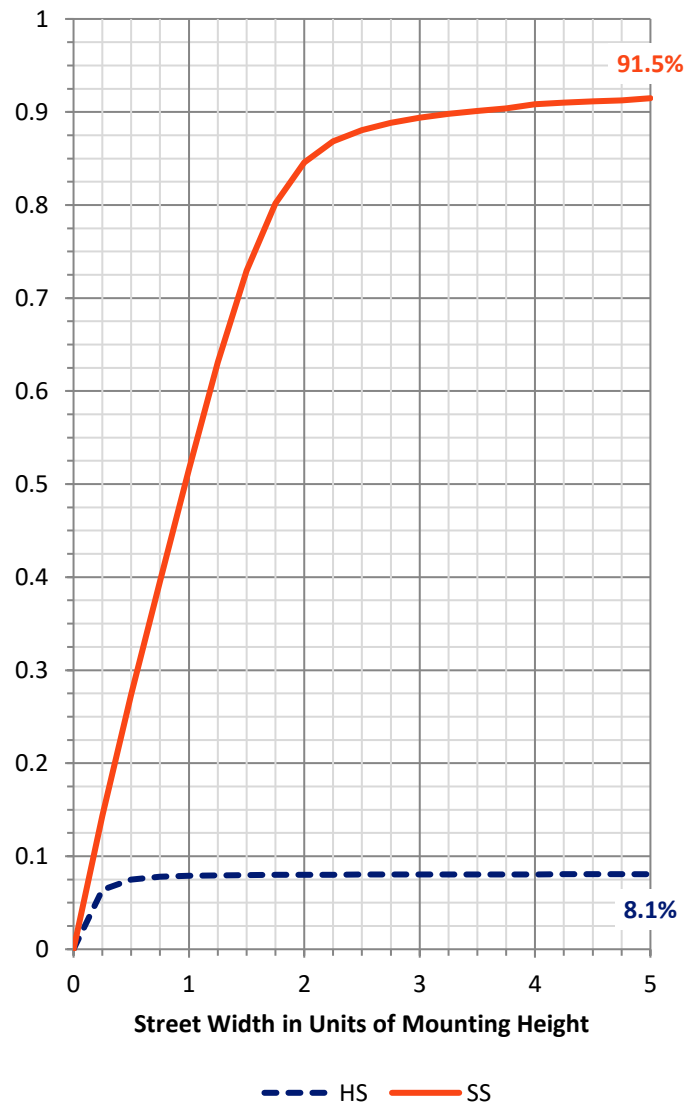
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.6	0.0	1615.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18223.7	0.0	18223.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	19839.3	0.0	19839.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.2	2.1
10°-20°	866.1	4.4
20°-30°	1165.4	5.9
30°-40°	1692.1	8.5
40°-50°	2817.5	14.2
50°-60°	4395.3	22.2
60°-70°	5438.9	27.4
70°-80°	2756.4	13.9
80°-90°	288.4	1.5
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°	19839.3	100.0
0°-180°	19839.3	100.0

Coefficient of Utilization



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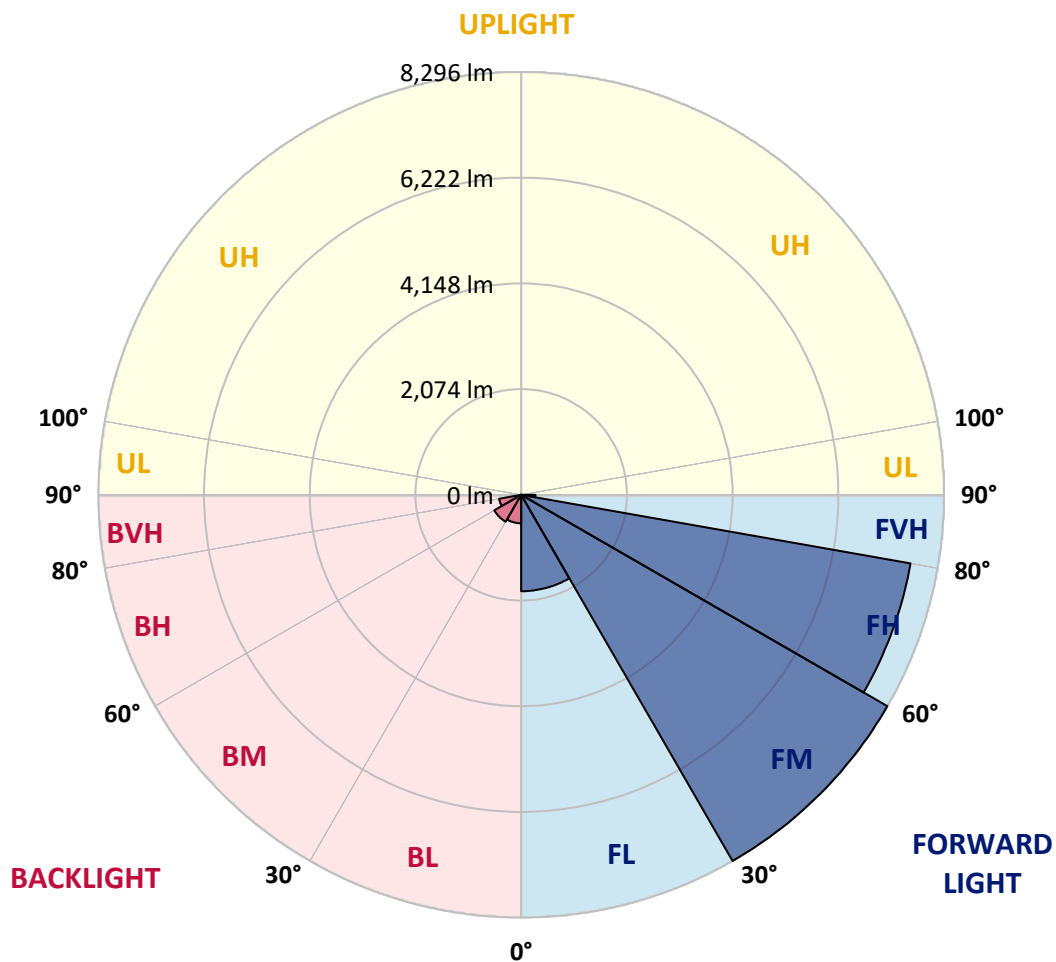
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1891.5	9.5			
FM	(30°-60°)	8296.2	41.8			
FH	(60°-80°)	7756.4	39.1			G4/12000
FVH	(80°-90°)	279.5	1.4			G3/500
BL	(0°-30°)	559.2	2.8	B2/1000		
BM	(30°-60°)	608.8	3.1	B1/1000		
BH	(60°-80°)	438.8	2.2	B1/500		G1/500
BVH	(80°-90°)	8.9	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9
2.5°	5659.7	5657.6	5632.9	5621.6	5601.4	5558.8	5492.6	5457.8	5401.8	5304.1	5172.9
5°	5608.2	5635.0	5649.7	5650.8	5665.3	5649.7	5590.2	5561.1	5483.6	5326.6	5090.9
7.5°	5258.1	5268.3	5309.8	5345.6	5415.2	5481.4	5502.8	5490.4	5444.4	5276.1	4963.1
10°	4883.5	4893.5	4942.9	4990.0	5084.3	5186.3	5294.0	5316.4	5335.5	5204.2	4839.6
12.5°	4560.4	4570.5	4620.9	4682.7	4792.5	4918.2	5085.4	5122.4	5206.5	5135.8	4741.0
15°	4282.1	4286.6	4336.0	4412.2	4543.5	4705.0	4894.6	4954.2	5083.1	5087.6	4654.6
17.5°	4045.5	4056.6	4087.0	4159.8	4303.4	4503.1	4724.2	4809.4	4960.8	5047.2	4570.5
20°	3900.7	3911.9	3910.8	3951.2	4080.2	4293.4	4553.6	4655.6	4839.6	5005.7	4495.3
22.5°	3872.7	3872.7	3843.5	3837.8	3914.1	4092.6	4376.4	4500.8	4730.8	4987.8	4442.6
25°	3972.4	3968.0	3895.1	3835.6	3839.0	3945.6	4204.8	4352.8	4638.8	5000.1	4414.5
27.5°	4183.4	4177.7	4085.7	3972.4	3881.7	3880.5	4074.6	4233.9	4566.0	5058.4	4425.8
30°	4475.0	4472.8	4373.0	4230.5	4065.6	3914.1	4029.7	4174.5	4518.9	5163.9	4451.6
32.5°	4793.6	4790.4	4715.2	4564.9	4356.1	4065.6	4076.8	4198.0	4532.3	5304.1	4514.4
35°	5131.4	5125.8	5093.2	4962.0	4732.0	4344.9	4231.6	4325.9	4617.6	5513.9	4637.7
37.5°	5497.1	5502.8	5526.3	5400.5	5159.4	4736.5	4490.8	4554.7	4789.2	5798.8	4838.5
40°	6036.7	6035.6	6043.4	5878.4	5646.3	5215.5	4853.2	4873.3	5076.4	6177.0	5143.7
42.5°	7016.1	6947.7	6740.1	6403.5	6170.2	5763.0	5309.8	5288.3	5427.6	6644.7	5571.1
45°	8332.0	8186.1	7647.7	7002.7	6704.1	6379.9	5871.8	5803.3	5892.1	7206.7	6098.5
47.5°	9463.9	9312.5	8550.7	7626.4	7270.7	6965.6	6530.3	6407.0	6436.0	7836.2	6767.0
50°	9848.7	9774.7	9109.5	8169.4	7819.3	7702.7	7294.2	7143.9	7102.5	8564.3	7542.2
52.5°	9715.3	9709.7	9266.5	8521.5	8321.9	8465.5	8255.7	8081.8	7929.3	9331.7	8330.9
55°	9500.9	9529.0	9330.4	8830.2	8823.3	9162.2	9570.6	9425.8	8983.9	10165.2	9010.7
57.5°	8909.8	9029.8	9294.5	9413.4	9689.4	10036.1	10665.5	10750.7	10228.0	10803.4	9575.1
60°	7229.2	7492.9	8359.0	9497.6	10805.7	11669.6	11987.1	12059.9	11248.8	11334.1	10336.8
62.5°	5131.4	5400.5	6498.8	8425.1	10822.5	13815.7	13955.9	13669.8	12372.9	12120.4	11650.5
65°	2723.9	2931.4	3828.9	6081.6	9383.1	14313.7	17398.9	16546.2	14356.3	13667.6	13347.7
67.5°	1393.4	1456.2	1812.9	2976.3	6450.6	12714.0	20485.0	21085.3	17774.7	15202.3	13265.9
69°	1232.9	1269.9	1506.6	2151.8	4130.6	10768.7	20635.4	22643.6	19564.0	15074.4	12055.4
70°	1193.6	1226.2	1441.5	1947.5	3228.7	9031.0	20059.9	22506.7	20021.8	14587.4	11151.2
72.5°	1013.1	1041.1	1283.4	1721.0	2624.0	4482.9	16294.9	19071.5	17966.5	12152.0	8071.7
75°	677.6	769.6	1231.8	1613.2	2441.2	2546.7	10742.9	13782.0	12802.6	8196.3	4204.8
77.5°	162.7	175.1	347.8	1283.4	2232.5	2241.5	5525.1	8567.6	6988.0	2921.3	993.9
80°	87.5	84.1	97.6	254.7	2078.7	2103.5	2487.2	4158.7	2495.1	484.7	327.6
82.5°	61.7	58.4	62.9	106.5	654.0	1916.1	1799.5	1882.4	1034.3	186.2	147.0
85°	22.4	21.3	34.8	96.4	205.3	1101.7	1848.7	1552.7	838.0	85.2	107.7
87.5°	7.8	6.8	13.4	52.8	62.9	468.9	1140.8	1173.5	329.9	51.6	50.5
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°	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9	5163.9
2.5°	5117.9	5048.4	4920.5	4789.2	4668.0	4522.2	4449.2	4377.5	4347.2	4336.0	4283.3
5°	4969.7	4851.9	4580.4	4307.9	4056.6	3789.6	3613.5	3472.2	3389.1	3348.7	3284.8
7.5°	4780.2	4587.2	4175.6	3754.8	3363.3	2977.5	2691.3	2471.5	2320.0	2247.0	2181.0
10°	4596.2	4339.3	3753.7	3180.4	2648.7	2137.1	1742.2	1456.2	1273.3	1189.2	1135.3
12.5°	4431.3	4098.1	3346.5	2620.7	1953.1	1354.0	952.4	724.7	611.5	572.2	553.1
15°	4284.4	3876.0	2961.7	2088.9	1322.7	774.1	520.5	443.1	425.2	425.2	423.0
17.5°	4145.3	3658.3	2590.3	1589.6	830.2	473.4	396.1	385.9	385.9	390.4	390.4
20°	4011.8	3450.9	2231.4	1140.8	522.8	375.9	357.9	355.6	357.9	363.5	363.5
22.5°	3897.3	3262.4	1895.9	783.1	388.2	338.8	329.9	326.4	327.6	330.9	333.2
25°	3812.0	3103.1	1579.6	530.7	334.4	308.5	298.4	292.9	288.3	288.3	290.5
27.5°	3758.2	2968.5	1273.3	385.9	300.7	280.5	264.7	255.7	245.8	240.1	242.3
30°	3718.9	2840.5	986.1	315.2	269.3	249.0	228.9	214.2	199.7	193.0	195.2
32.5°	3704.3	2737.3	737.1	278.2	241.3	218.7	194.1	175.1	159.3	153.7	154.8
35°	3743.7	2655.4	539.6	251.3	218.7	190.7	162.7	141.4	129.0	125.6	126.7
37.5°	3846.8	2611.7	403.8	228.9	198.6	167.1	135.7	115.6	107.7	107.7	108.8
40°	4042.0	2610.5	324.2	213.2	180.6	144.8	112.2	97.6	93.1	95.4	96.4
42.5°	4327.0	2670.0	282.7	198.6	164.9	123.4	93.1	83.0	82.0	84.1	85.2
45°	4716.2	2778.8	260.2	186.2	148.0	103.2	78.5	71.8	71.8	75.2	76.3
47.5°	5193.1	2938.1	241.3	173.9	131.2	86.5	67.3	62.9	63.9	67.3	68.4
50°	5767.5	3138.9	222.2	160.4	118.9	71.8	58.4	54.9	56.0	60.5	61.7
52.5°	6421.5	3409.3	206.4	148.0	103.2	59.4	49.3	47.1	49.3	53.9	54.9
55°	6982.4	3651.7	187.4	138.0	83.0	49.3	40.4	40.4	42.6	48.3	49.3
57.5°	7522.1	3905.2	170.6	118.9	65.1	39.3	33.7	34.8	38.1	43.7	44.9
60°	8314.1	4334.9	150.3	99.9	49.3	31.3	28.1	29.2	33.7	39.3	40.4
62.5°	9659.2	4988.9	130.1	83.0	38.1	24.7	22.4	24.7	30.3	37.0	38.1
65°	10873.1	5254.8	106.5	69.6	29.2	19.1	19.1	22.4	29.2	35.9	37.0
67.5°	10196.5	4423.5	83.0	54.9	22.4	14.5	15.8	21.3	28.1	35.9	37.0
69°	9017.5	3616.8	70.7	43.7	19.1	13.4	14.5	21.3	28.1	34.8	35.9
70°	8098.7	3053.7	62.9	37.0	16.8	13.4	14.5	20.2	28.1	34.8	35.9
72.5°	5424.1	1649.2	50.5	26.9	15.8	12.3	12.3	20.2	26.9	33.7	34.8
75°	2331.3	455.5	40.4	19.1	13.4	11.3	11.3	19.1	25.7	32.6	34.8
77.5°	426.3	115.6	32.6	16.8	13.4	11.3	10.1	17.9	24.7	31.3	32.6
80°	169.4	57.3	25.7	14.5	12.3	10.1	9.0	16.8	23.6	30.3	31.3
82.5°	102.0	32.6	21.3	13.4	12.3	9.0	7.8	14.5	22.4	29.2	30.3
85°	83.0	22.4	16.8	13.4	11.3	9.0	6.8	13.4	20.2	28.1	29.2
87.5°	40.4	15.8	15.8	12.3	11.3	9.0	6.8	12.3	19.1	26.9	28.1
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)