

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: P192803

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26144.7 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

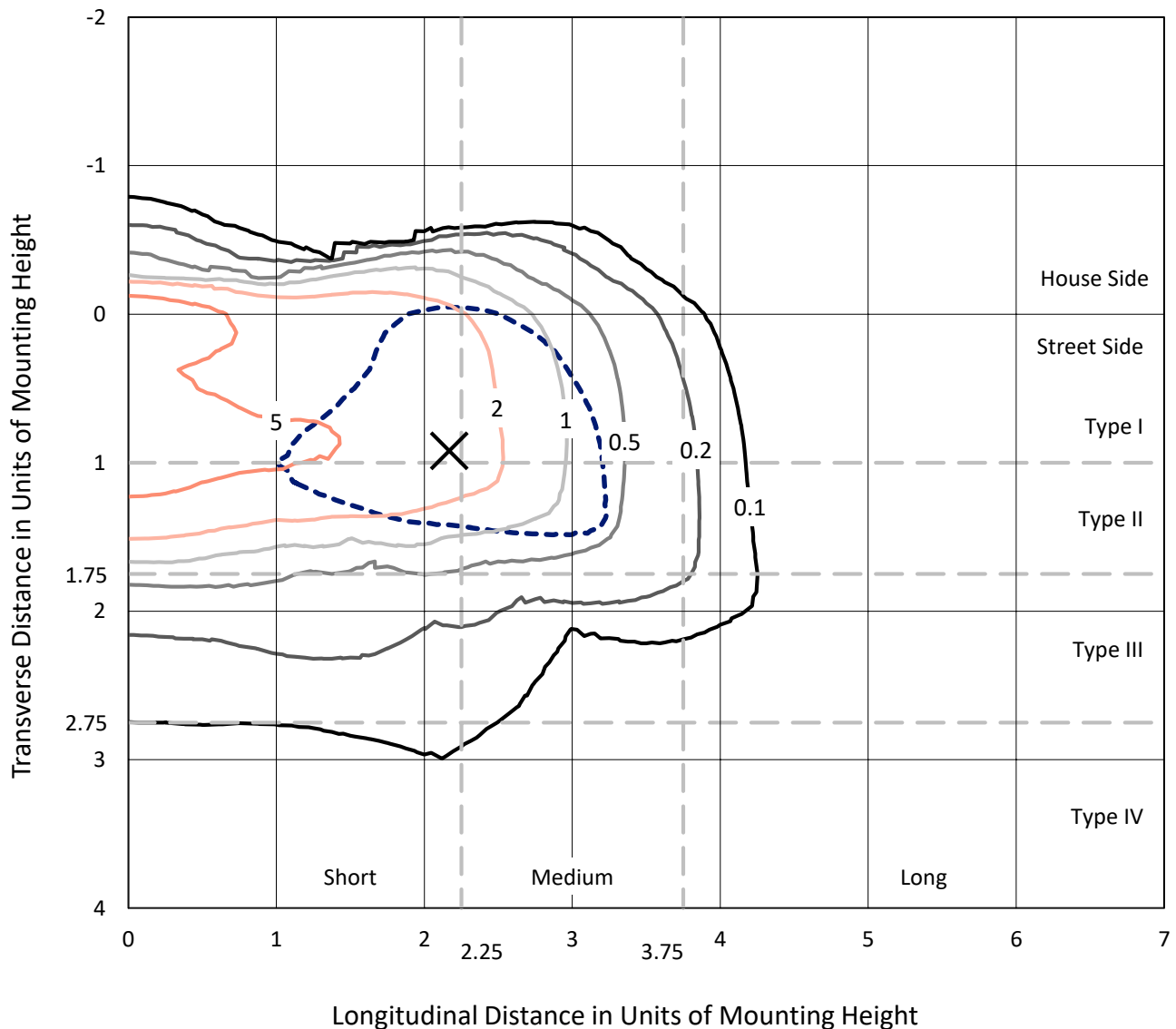


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

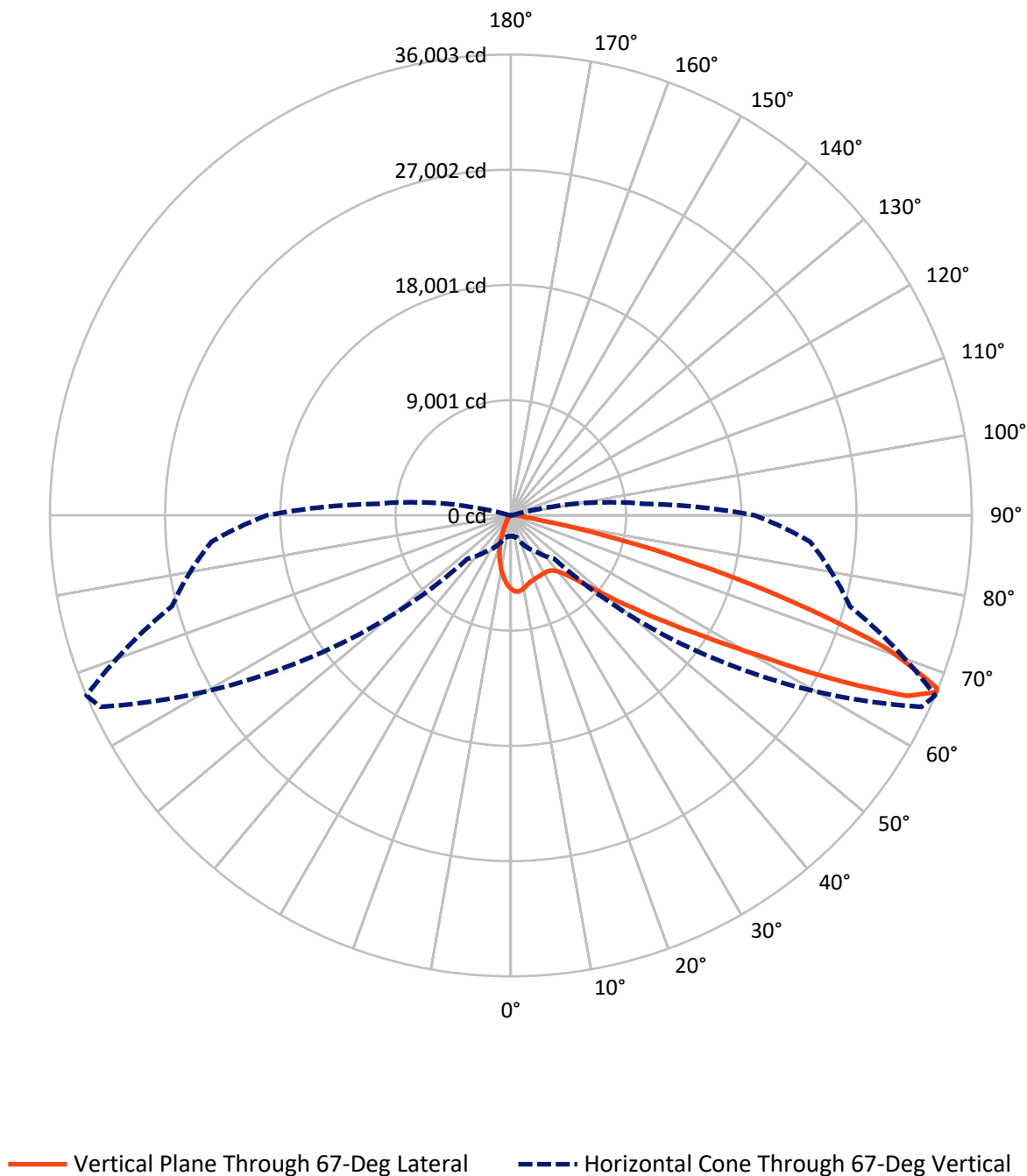


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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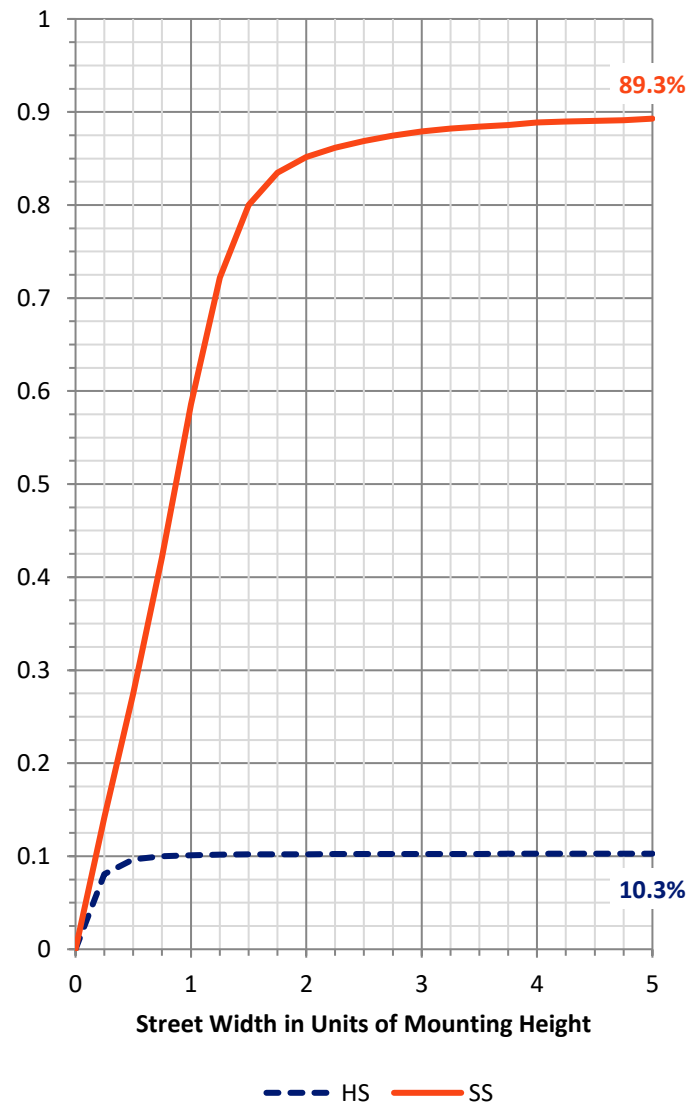
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2714.6	0.0	2714.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23430.1	0.0	23430.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	26144.7	0.0	26144.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.2	1.8
10°-20°	998.5	3.8
20°-30°	1451.8	5.6
30°-40°	2264.9	8.7
40°-50°	4012.1	15.3
50°-60°	6348.8	24.3
60°-70°	7271.6	27.8
70°-80°	3016.2	11.5
80°-90°	311.6	1.2
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°	26144.7	100.0
0°-180°	26144.7	100.0

Coefficient of Utilization



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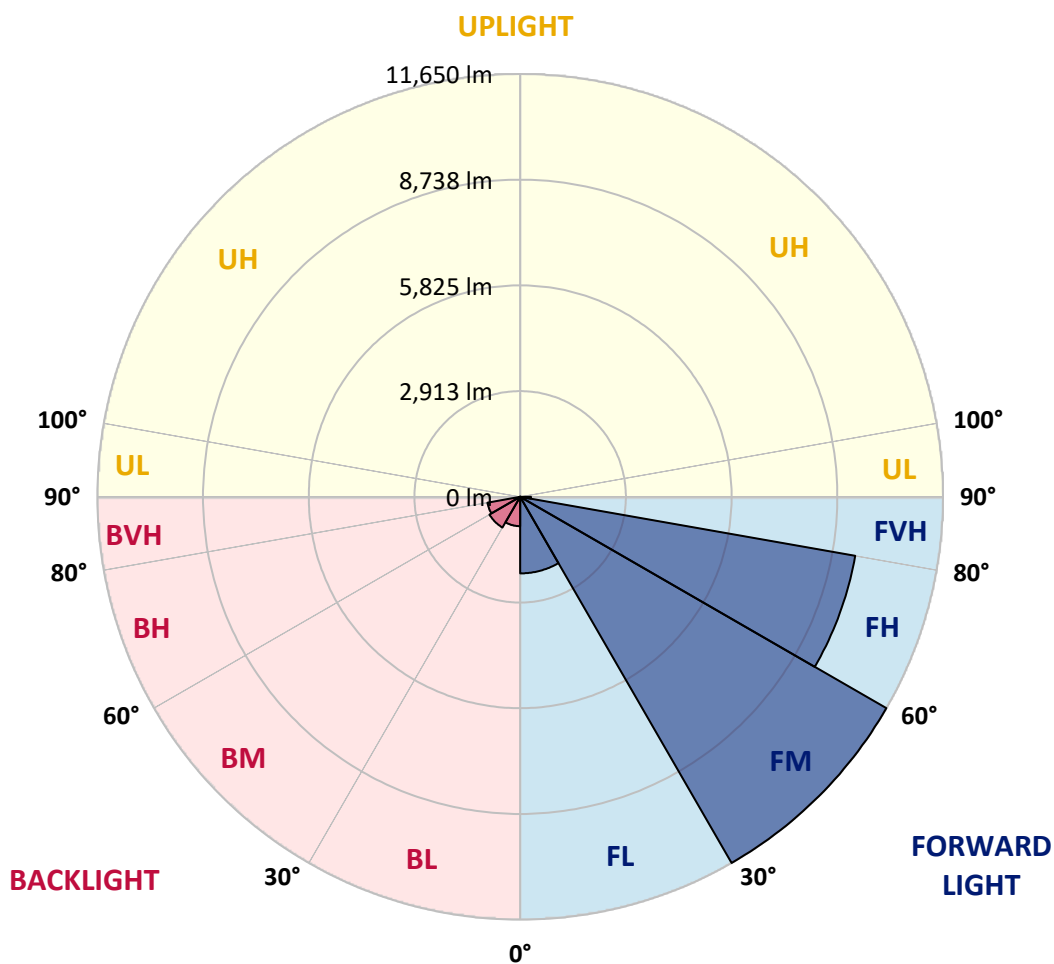
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2109.5	8.1			
FM	(30°-60°)	11650.1	44.6			
FH	(60°-80°)	9372.9	35.9			G4/12000
FVH	(80°-90°)	297.5	1.1			G3/500
BL	(0°-30°)	810.0	3.1	B2/1000		
BM	(30°-60°)	975.6	3.7	B1/1000		
BH	(60°-80°)	914.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	14.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8
2.5°	5961.0	5973.2	5971.8	5980.9	6002.2	6003.8	5982.4	5941.2	5932.1	5878.7	5785.8
5°	5497.5	5532.6	5553.8	5640.8	5738.4	5855.9	5944.2	5976.3	5971.8	5933.7	5793.4
7.5°	4968.3	5003.4	5027.8	5129.9	5259.5	5460.9	5691.1	5880.3	5897.0	5938.1	5787.3
10°	4616.1	4622.1	4655.6	4753.4	4889.1	5094.9	5369.3	5700.3	5750.7	5901.5	5771.9
12.5°	4326.3	4330.9	4375.1	4480.2	4625.2	4832.5	5120.8	5503.6	5581.3	5855.9	5768.9
15°	4120.3	4137.2	4176.9	4286.7	4440.7	4646.6	4942.4	5358.7	5451.7	5839.1	5796.3
17.5°	4051.8	4070.1	4082.4	4161.5	4301.9	4503.2	4806.7	5264.1	5369.3	5848.2	5849.7
20°	4123.5	4137.2	4109.8	4129.6	4216.6	4396.5	4692.2	5183.4	5308.4	5858.9	5918.3
22.5°	4390.4	4396.5	4321.8	4234.8	4219.6	4318.7	4602.3	5119.3	5253.5	5887.9	5999.2
25°	4847.9	4837.1	4715.2	4527.6	4350.7	4305.0	4548.9	5079.7	5226.0	5918.3	6083.0
27.5°	5399.9	5415.1	5247.4	4974.3	4637.4	4396.5	4541.4	5062.8	5213.9	5939.7	6156.2
30°	6070.9	6092.2	5900.1	5556.9	5073.6	4622.1	4611.5	5059.8	5206.2	5926.0	6162.3
32.5°	6755.6	6781.5	6630.5	6276.7	5656.1	5000.4	4770.0	5093.3	5221.5	5878.7	6127.3
35°	7472.2	7508.9	7408.3	7104.8	6446.0	5546.2	5049.1	5195.5	5293.2	5874.1	6092.2
37.5°	8462.0	8495.6	8306.4	7984.6	7402.1	6278.2	5497.5	5387.7	5462.4	5947.3	6101.4
40°	9939.7	9935.1	9447.1	8954.6	8452.9	7208.5	6127.3	5735.3	5773.5	6168.4	6214.2
42.5°	11550.1	11542.3	10821.0	10072.3	9619.4	8353.8	6955.3	6336.2	6310.3	6575.7	6506.9
45°	12791.3	12789.8	12201.2	11357.8	11023.9	9668.3	8025.8	7171.9	7132.2	7237.5	7046.7
47.5°	13320.5	13329.6	13033.7	12440.6	12580.8	11446.3	9375.4	8382.7	8323.3	8280.5	7990.7
50°	12908.8	12927.0	12951.5	12835.6	13723.1	13835.9	11185.5	10089.1	10060.1	9869.5	9416.6
52.5°	11563.8	11656.8	11943.4	12311.0	14119.6	16129.5	14023.5	12208.8	12053.3	11850.5	11351.8
55°	9297.6	9399.8	9944.2	10836.4	13529.5	17636.1	18000.6	14941.5	14682.3	14076.9	13357.1
57.5°	6153.2	6311.8	7101.8	8236.3	11815.4	17878.6	21968.5	18734.1	17831.3	16173.6	15362.4
60°	3390.0	3542.5	4399.6	5427.4	8533.7	16679.9	24637.2	23671.9	22076.8	18517.6	17797.8
62.5°	2087.6	2170.0	2802.8	3759.1	5117.7	13164.9	25189.2	29877.0	28030.3	21535.4	20739.4
65°	1662.2	1697.3	2006.9	3072.8	3669.0	7830.6	23406.6	34607.4	33991.3	25189.2	23373.0
67°	1613.4	1627.1	1773.5	2638.2	3458.6	4800.6	19609.5	35377.5	36002.7	27400.4	23455.3
67.5°	1624.0	1639.3	1778.0	2517.7	3452.5	4411.7	18301.0	35074.0	35864.0	27575.8	23090.9
70°	1566.1	1613.4	2035.8	2516.1	3283.2	3665.9	10959.9	30389.4	31211.3	25622.3	19592.6
72.5°	555.0	558.1	879.9	2035.8	3569.9	3705.6	5503.6	22278.1	22886.5	19600.2	14125.7
75°	329.4	280.6	292.9	579.5	3411.3	3598.9	3175.0	14235.5	14462.6	11231.3	7153.5
77.5°	227.3	198.2	204.4	256.2	1299.3	3548.5	2522.2	7423.5	7181.1	3939.1	1523.4
80°	129.6	114.4	122.1	224.2	472.8	3310.7	2378.9	3010.3	2566.5	667.9	420.8
82.5°	68.7	57.9	70.2	184.5	329.4	2063.3	2383.5	1454.8	1152.9	225.7	286.7
85°	24.4	19.7	33.6	126.5	219.6	632.8	2209.7	1223.0	960.7	109.8	218.1
87.5°	4.6	4.6	13.7	51.9	88.5	193.7	1306.8	725.9	486.4	65.5	149.4
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°	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8	5765.8
2.5°	5747.6	5682.0	5593.5	5485.3	5357.2	5244.3	5160.5	5073.6	5055.2	5024.8	5020.1
5°	5709.5	5596.6	5376.9	5125.4	4857.0	4614.6	4417.8	4242.4	4164.6	4097.5	4089.9
7.5°	5653.0	5483.7	5110.2	4704.4	4285.1	3904.0	3580.7	3351.8	3141.4	3040.8	3025.5
10°	5587.4	5345.0	4809.7	4247.0	3667.5	3129.1	2648.9	2246.3	2002.2	1857.4	1839.1
12.5°	5526.5	5209.3	4503.2	3772.7	3002.7	2282.9	1665.2	1280.9	1024.8	921.0	908.9
15°	5497.5	5099.4	4216.6	3287.8	2307.2	1453.2	910.3	704.5	620.7	596.2	594.7
17.5°	5494.4	5006.5	3935.9	2786.1	1616.5	844.8	593.2	541.4	524.6	518.4	518.4
20°	5492.9	4918.0	3655.3	2266.0	1026.3	562.6	494.1	481.9	469.7	462.0	462.0
22.5°	5509.6	4838.6	3362.6	1735.4	646.6	455.9	434.7	422.4	407.2	396.5	395.0
25°	5526.5	4777.7	3063.6	1235.1	468.1	396.5	375.1	358.4	337.1	323.3	321.8
27.5°	5529.5	4701.4	2743.4	826.5	391.9	346.2	318.7	292.9	268.3	254.7	253.2
30°	5483.7	4573.4	2388.1	558.1	346.2	300.5	263.9	236.3	213.5	202.7	202.7
32.5°	5393.8	4414.7	1997.7	420.8	308.0	257.8	218.1	192.2	176.9	172.3	170.8
35°	5312.9	4243.9	1596.6	356.8	276.0	218.1	178.4	161.6	152.5	151.0	149.4
37.5°	5265.6	4106.7	1220.0	323.3	245.5	183.0	151.0	138.8	134.2	131.1	132.6
40°	5302.3	3992.4	901.3	295.9	215.0	152.5	128.1	122.1	117.5	116.0	116.0
42.5°	5462.4	3972.5	669.4	271.4	186.1	126.5	111.3	106.7	103.7	102.1	103.7
45°	5883.3	4094.5	520.0	248.6	157.2	106.7	94.5	93.0	91.4	91.4	91.4
47.5°	6516.1	4346.2	433.1	222.7	131.1	91.4	82.4	80.9	79.3	80.9	80.9
50°	7588.2	4806.7	387.4	196.6	108.2	77.8	70.2	70.2	70.2	70.2	71.7
52.5°	9218.3	5712.5	356.8	170.8	88.5	65.5	59.4	59.4	60.9	60.9	62.5
55°	11034.6	6914.2	329.4	144.9	74.8	54.8	48.8	50.4	51.9	53.4	53.4
57.5°	13004.8	8245.5	306.5	119.0	64.0	44.2	41.2	42.7	44.2	47.3	47.3
60°	15382.3	9686.5	272.9	93.0	53.4	35.1	32.0	35.1	39.7	42.7	44.2
62.5°	17993.0	11080.3	230.3	73.2	44.2	27.5	25.9	32.0	38.1	41.2	42.7
65°	19777.1	11518.0	176.9	59.4	33.6	19.7	21.3	29.0	36.6	41.2	41.2
67°	19054.4	10442.9	144.9	50.4	27.5	15.3	19.7	29.0	36.6	39.7	41.2
67.5°	18552.7	10022.1	138.8	48.8	25.9	15.3	19.7	29.0	36.6	41.2	41.2
70°	15095.6	7528.7	116.0	36.6	21.3	13.7	16.8	27.5	35.1	39.7	39.7
72.5°	10488.7	4642.0	103.7	25.9	18.2	12.2	15.3	25.9	33.6	38.1	39.7
75°	4986.6	1680.5	88.5	19.7	16.8	10.7	13.7	25.9	33.6	38.1	38.1
77.5°	1017.1	390.4	71.7	16.8	13.7	10.7	12.2	24.4	32.0	36.6	36.6
80°	334.0	151.0	53.4	15.3	13.7	10.7	12.2	22.8	32.0	35.1	36.6
82.5°	240.9	76.3	35.1	15.3	13.7	10.7	10.7	22.8	30.5	35.1	35.1
85°	184.5	53.4	22.8	15.3	13.7	10.7	10.7	21.3	29.0	33.6	33.6
87.5°	122.1	21.3	18.2	15.3	13.7	10.7	10.7	21.3	27.5	32.0	33.6
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)