

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: P192874

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192874
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-06-LED-E1-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 29415.9 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 333
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



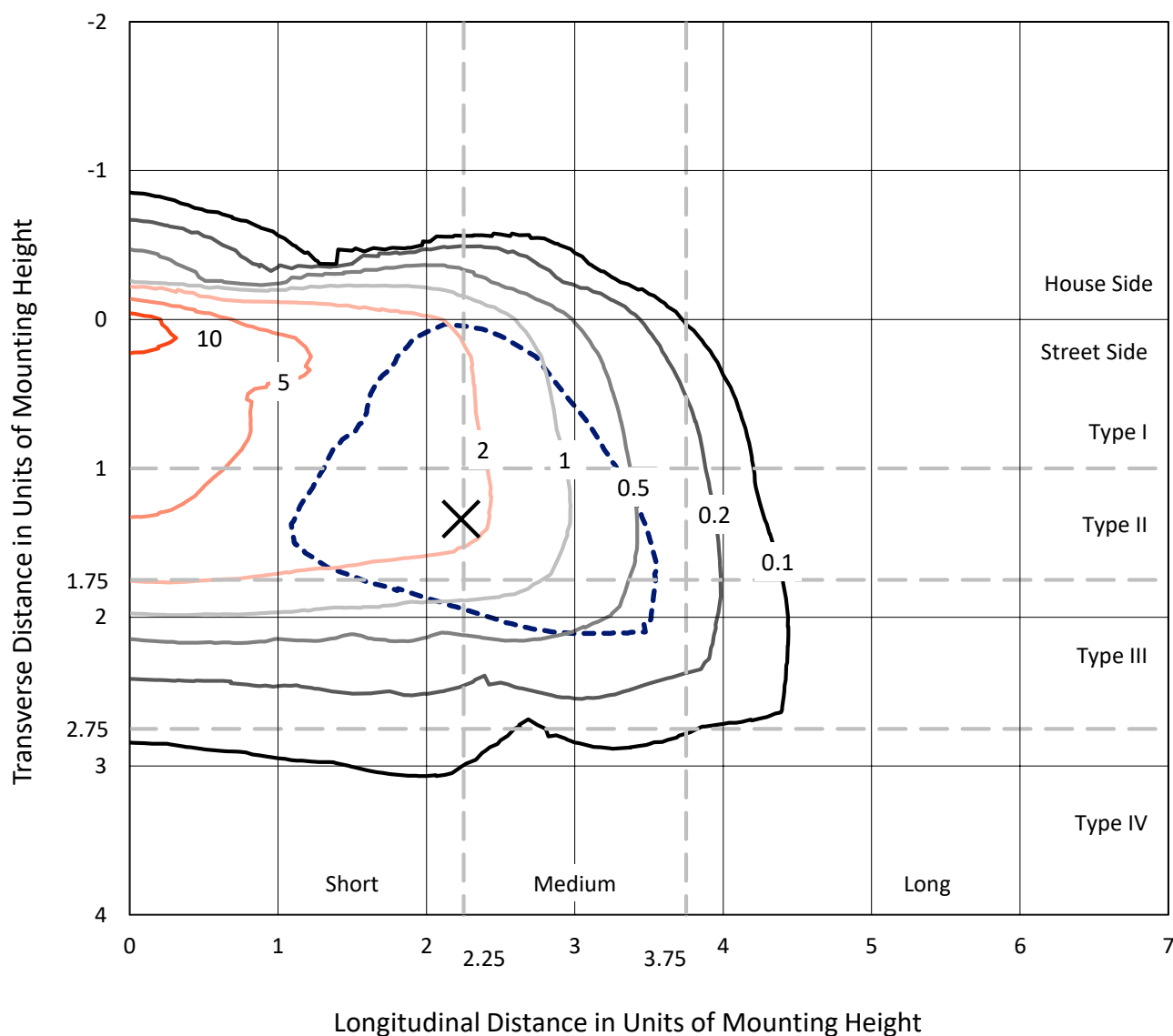
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

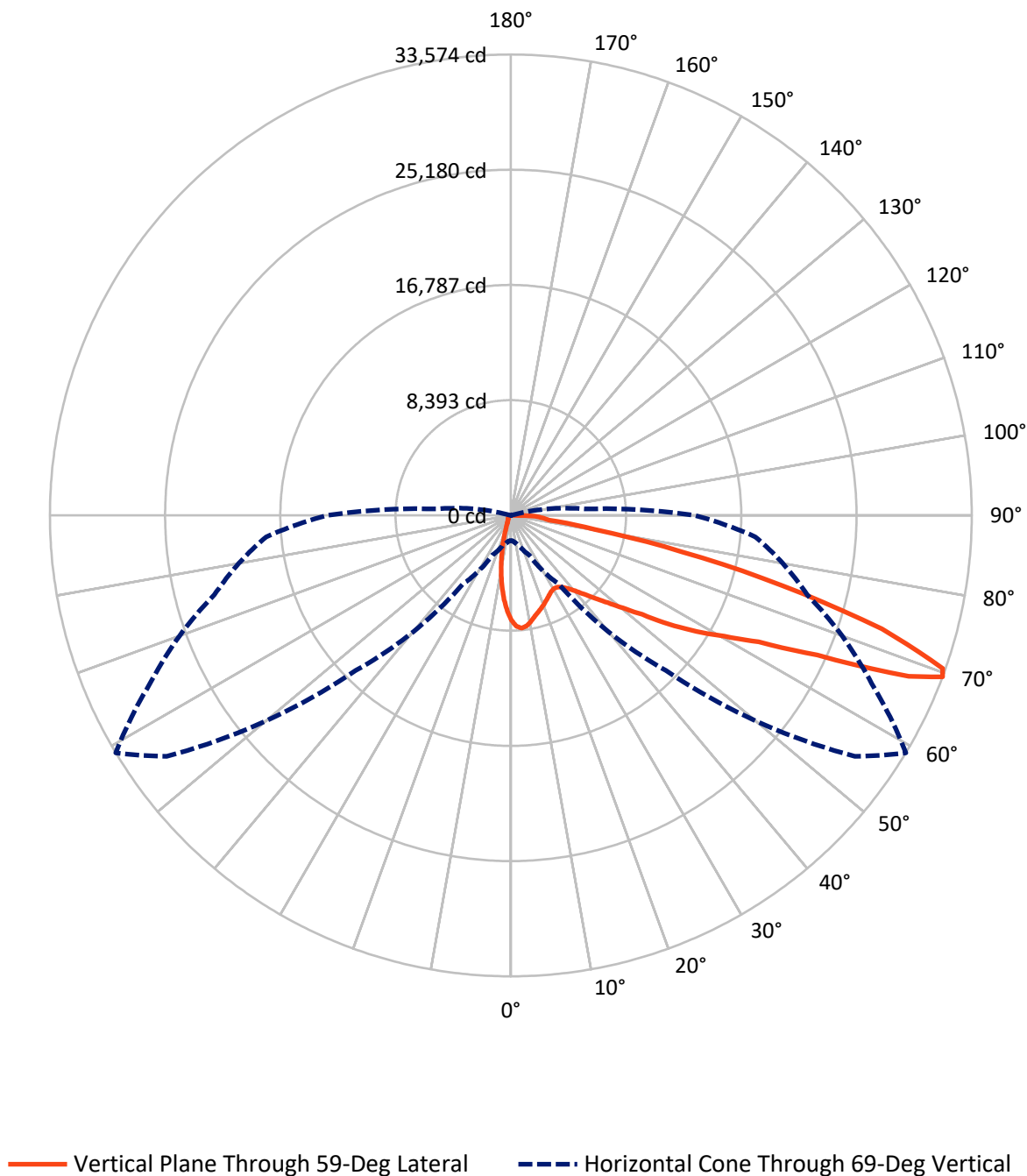


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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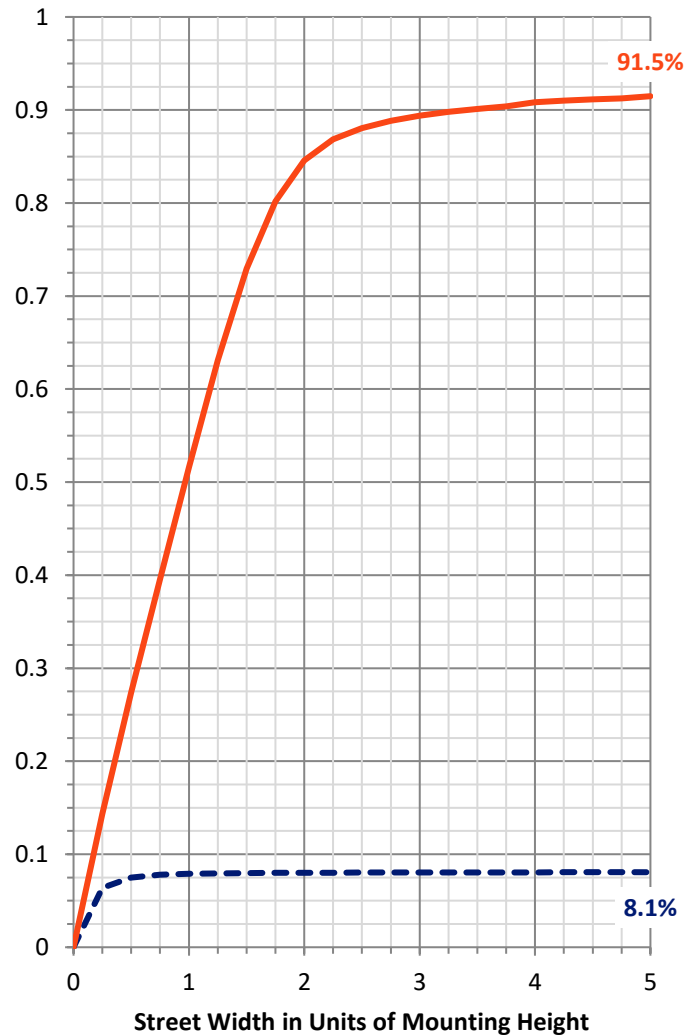
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2395.5	0.0	2395.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	27020.3	0.0	27020.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	29415.9	0.0	29415.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	2.1
10°-20°	1284.2	4.4
20°-30°	1728.0	5.9
30°-40°	2509.0	8.5
40°-50°	4177.6	14.2
50°-60°	6517.0	22.2
60°-70°	8064.2	27.4
70°-80°	4086.9	13.9
80°-90°	427.6	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°	29415.9	100.0
0°-180°	29415.9	100.0

Coefficient of Utilization



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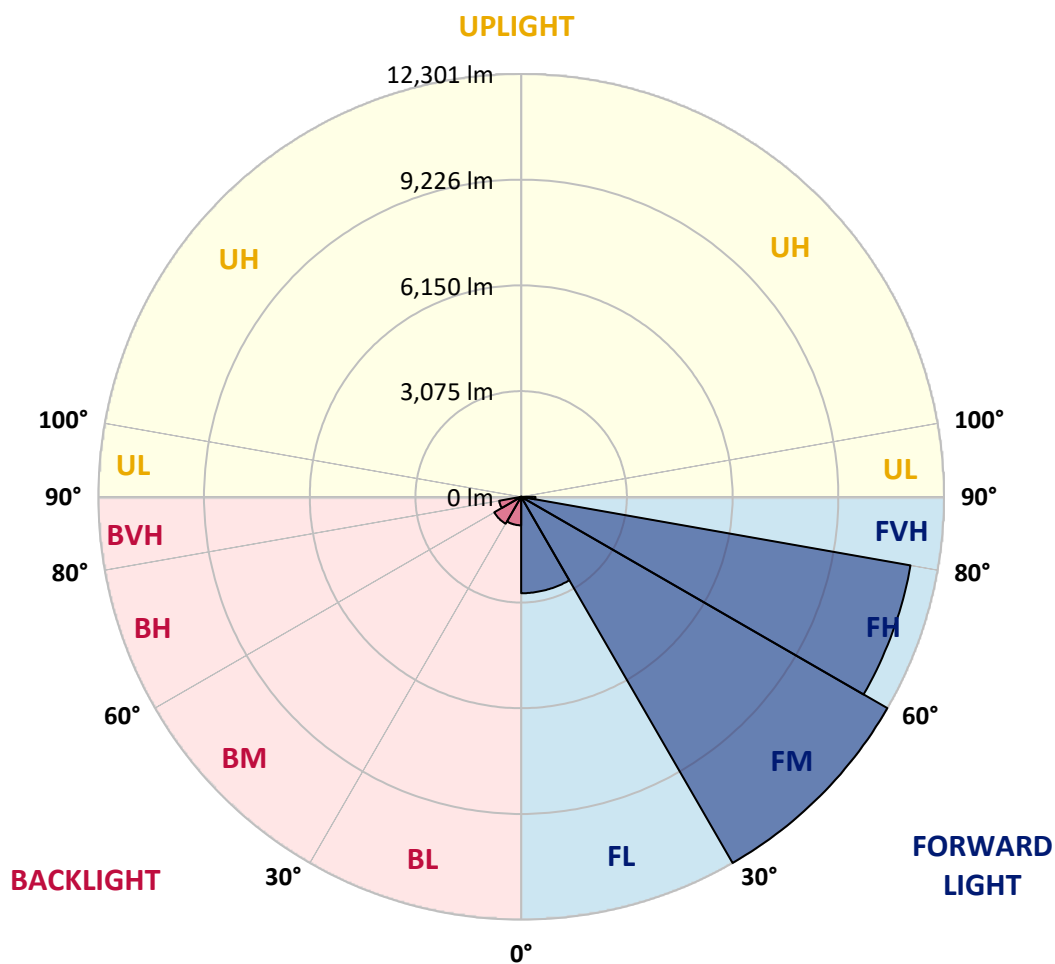
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2804.5	9.5			
FM	(30°-60°)	12300.9	41.8			
FH	(60°-80°)	11500.5	39.1			G4/12000
FVH	(80°-90°)	414.5	1.4			G3/500
BL	(0°-30°)	829.2	2.8	B2/1000		
BM	(30°-60°)	902.6	3.1	B1/1000		
BH	(60°-80°)	650.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	13.2	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6
2.5°	8391.7	8388.4	8351.9	8335.2	8305.3	8242.1	8143.9	8092.4	8009.1	7864.5	7669.9
5°	8315.2	8355.2	8376.8	8378.4	8400.1	8376.8	8288.6	8245.4	8130.6	7897.7	7548.4
7.5°	7796.3	7811.3	7872.7	7926.0	8029.1	8127.2	8158.9	8140.6	8072.4	7822.9	7358.8
10°	7240.7	7255.7	7328.9	7398.7	7538.5	7689.7	7849.5	7882.7	7911.0	7716.4	7175.8
12.5°	6761.6	6776.6	6851.4	6943.0	7106.0	7292.3	7540.1	7595.0	7719.7	7615.0	7029.4
15°	6349.2	6355.8	6429.0	6542.1	6736.7	6976.2	7257.3	7345.5	7536.8	7543.5	6901.4
17.5°	5998.2	6014.8	6059.7	6167.8	6380.7	6676.9	7004.5	7131.0	7355.5	7483.6	6776.6
20°	5783.5	5800.2	5798.5	5858.5	6049.6	6365.8	6751.6	6903.0	7175.8	7422.0	6665.2
22.5°	5742.0	5742.0	5698.8	5690.4	5803.6	6068.0	6488.8	6673.4	7014.5	7395.4	6587.0
25°	5890.0	5883.4	5775.2	5687.1	5692.1	5850.1	6234.4	6454.0	6878.1	7413.7	6545.4
27.5°	6202.7	6194.5	6058.0	5890.0	5755.3	5753.6	6041.4	6277.6	6769.9	7500.2	6562.0
30°	6635.2	6631.9	6483.9	6272.6	6028.1	5803.6	5974.9	6189.4	6700.1	7656.6	6600.3
32.5°	7107.7	7102.6	6991.2	6768.3	6458.9	6028.1	6044.8	6224.4	6720.1	7864.5	6693.4
35°	7608.3	7600.0	7551.8	7357.1	7016.2	6442.3	6274.3	6413.9	6846.5	8175.6	6876.4
37.5°	8150.5	8158.9	8193.8	8007.5	7649.9	7022.7	6658.5	6753.4	7101.0	8598.0	7174.2
40°	8950.6	8949.0	8960.7	8716.1	8371.8	7733.1	7195.9	7225.8	7526.8	9158.5	7626.7
42.5°	10402.8	10301.3	9993.6	9494.6	9148.6	8544.8	7872.7	7841.2	8047.5	9852.2	8260.3
45°	12354.0	12137.7	11339.3	10382.8	9940.4	9459.6	8706.1	8604.7	8736.1	10685.5	9042.2
47.5°	14032.2	13807.7	12678.3	11307.7	10780.4	10327.9	9682.5	9499.5	9542.8	11618.7	10033.5
50°	14602.8	14493.0	13506.6	12112.7	11593.7	11420.8	10815.3	10592.4	10530.9	12698.2	11182.9
52.5°	14404.8	14396.5	13739.6	12635.1	12338.9	12551.9	12240.9	11983.0	11756.8	13836.0	12352.3
55°	14087.2	14128.8	13834.3	13092.4	13082.4	13584.9	14190.3	13975.7	13320.4	15071.9	13360.3
57.5°	13210.5	13388.5	13781.1	13957.5	14366.6	14880.6	15813.7	15940.2	15165.0	16018.4	14196.9
60°	10718.9	11109.7	12393.9	14082.2	16021.7	17302.6	17773.2	17881.4	16678.8	16805.1	15326.4
62.5°	7608.3	8007.5	9636.0	12492.0	16046.7	20484.6	20692.5	20268.2	18345.4	17971.2	17274.2
65°	4038.7	4346.5	5677.1	9017.1	13912.5	21223.1	25797.4	24533.2	21286.3	20265.0	19790.9
67.5°	2065.9	2159.1	2688.0	4413.0	9564.4	18851.0	30373.3	31263.2	26354.7	22540.5	19669.5
69°	1828.0	1883.0	2234.0	3190.4	6124.5	15966.8	30596.2	33573.7	29007.7	22350.8	17874.7
70°	1769.9	1818.1	2137.4	2887.6	4787.2	13390.3	29742.9	33370.7	29686.4	21629.0	16533.9
72.5°	1502.0	1543.7	1902.9	2551.6	3890.6	6646.9	24160.6	28277.5	26639.0	18017.7	11968.0
75°	1004.6	1141.1	1826.4	2391.9	3619.5	3775.9	15928.6	20434.6	18982.4	12152.7	6234.4
77.5°	241.3	259.5	515.6	1902.9	3310.1	3323.4	8192.2	12703.2	10361.2	4331.5	1473.8
80°	129.7	124.8	144.8	377.6	3082.2	3118.8	3687.7	6166.1	3699.4	718.6	485.6
82.5°	91.4	86.6	93.2	158.0	969.7	2841.1	2668.1	2791.1	1533.7	276.1	217.9
85°	33.3	31.5	51.6	143.0	304.4	1633.4	2741.2	2302.1	1242.5	126.4	159.7
87.5°	11.7	10.0	20.0	78.2	93.2	695.3	1691.7	1739.9	489.1	76.5	74.9
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°	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6	7656.6
2.5°	7588.4	7485.3	7295.6	7101.0	6921.3	6705.1	6597.0	6490.5	6445.6	6429.0	6350.8
5°	7368.8	7194.1	6791.5	6387.4	6014.8	5618.8	5357.7	5148.2	5025.1	4965.2	4870.3
7.5°	7087.6	6801.6	6191.0	5567.3	4986.8	4414.6	3990.4	3664.4	3439.9	3331.8	3233.6
10°	6814.8	6433.9	5565.6	4715.7	3927.3	3168.7	2583.2	2159.1	1887.9	1763.2	1683.3
12.5°	6570.3	6076.4	4961.9	3885.7	2895.9	2007.7	1412.1	1074.6	906.6	848.3	820.1
15°	6352.5	5747.0	4391.3	3097.2	1961.1	1147.8	771.8	657.0	630.4	630.4	627.1
17.5°	6146.2	5424.2	3840.8	2357.0	1231.0	702.0	587.2	572.2	572.2	578.8	578.8
20°	5948.3	5116.6	3308.5	1691.7	775.0	557.2	530.7	527.2	530.7	538.9	538.9
22.5°	5778.6	4837.1	2811.1	1161.0	575.6	502.4	489.1	484.0	485.6	490.7	494.1
25°	5652.2	4600.9	2342.1	786.7	495.7	457.5	442.5	434.2	427.5	427.5	430.8
27.5°	5572.3	4401.3	1887.9	572.2	445.8	415.8	392.6	379.2	364.3	355.9	359.3
30°	5514.1	4211.7	1462.1	467.4	399.3	369.3	339.4	317.7	296.1	286.2	289.4
32.5°	5492.5	4058.7	1092.8	412.6	357.6	324.4	287.8	259.5	236.2	228.0	229.6
35°	5550.7	3937.2	800.1	372.6	324.4	282.8	241.3	209.6	191.3	186.3	187.9
37.5°	5703.8	3872.3	598.8	339.4	294.5	247.8	201.2	171.3	159.7	159.7	161.3
40°	5993.2	3870.7	480.7	316.1	267.8	214.5	166.3	144.8	138.1	141.4	143.0
42.5°	6415.7	3958.9	419.1	294.5	244.5	183.0	138.1	123.1	121.4	124.8	126.4
45°	6992.8	4120.1	385.9	276.1	219.6	153.1	116.5	106.4	106.4	111.5	113.1
47.5°	7699.8	4356.3	357.6	257.9	194.6	128.1	99.8	93.2	94.8	99.8	101.5
50°	8551.4	4654.1	329.3	237.8	176.4	106.4	86.6	81.5	83.1	89.8	91.4
52.5°	9521.2	5055.0	306.0	219.6	153.1	88.2	73.2	69.8	73.2	79.9	81.5
55°	10352.9	5414.4	277.7	204.7	123.1	73.2	59.9	59.9	63.3	71.6	73.2
57.5°	11152.9	5790.2	252.8	176.4	96.4	58.2	49.9	51.6	56.6	64.9	66.5
60°	12327.2	6427.2	222.9	148.0	73.2	46.6	41.6	43.2	49.9	58.2	59.9
62.5°	14321.7	7397.1	193.0	123.1	56.6	36.6	33.3	36.6	44.9	54.8	56.6
65°	16121.5	7791.3	158.0	103.1	43.2	28.3	28.3	33.3	43.2	53.2	54.8
67.5°	15118.4	6558.8	123.1	81.5	33.3	21.7	23.3	31.5	41.6	53.2	54.8
69°	13370.3	5362.8	104.8	64.9	28.3	20.0	21.7	31.5	41.6	51.6	53.2
70°	12007.9	4527.7	93.2	54.8	24.9	20.0	21.7	29.9	41.6	51.6	53.2
72.5°	8042.5	2445.2	74.9	39.9	23.3	18.2	18.2	29.9	39.9	49.9	51.6
75°	3456.5	675.3	59.9	28.3	20.0	16.6	16.6	28.3	38.2	48.3	51.6
77.5°	632.1	171.3	48.3	24.9	20.0	16.6	15.0	26.7	36.6	46.6	48.3
80°	251.2	84.7	38.2	21.7	18.2	15.0	13.3	24.9	35.0	44.9	46.6
82.5°	151.4	48.3	31.5	20.0	18.2	13.3	11.7	21.7	33.3	43.2	44.9
85°	123.1	33.3	24.9	20.0	16.6	13.3	10.0	20.0	29.9	41.6	43.2
87.5°	59.9	23.3	23.3	18.2	16.6	13.3	10.0	18.2	28.3	39.9	41.6
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)