

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: P192948

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37365.6 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 419
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



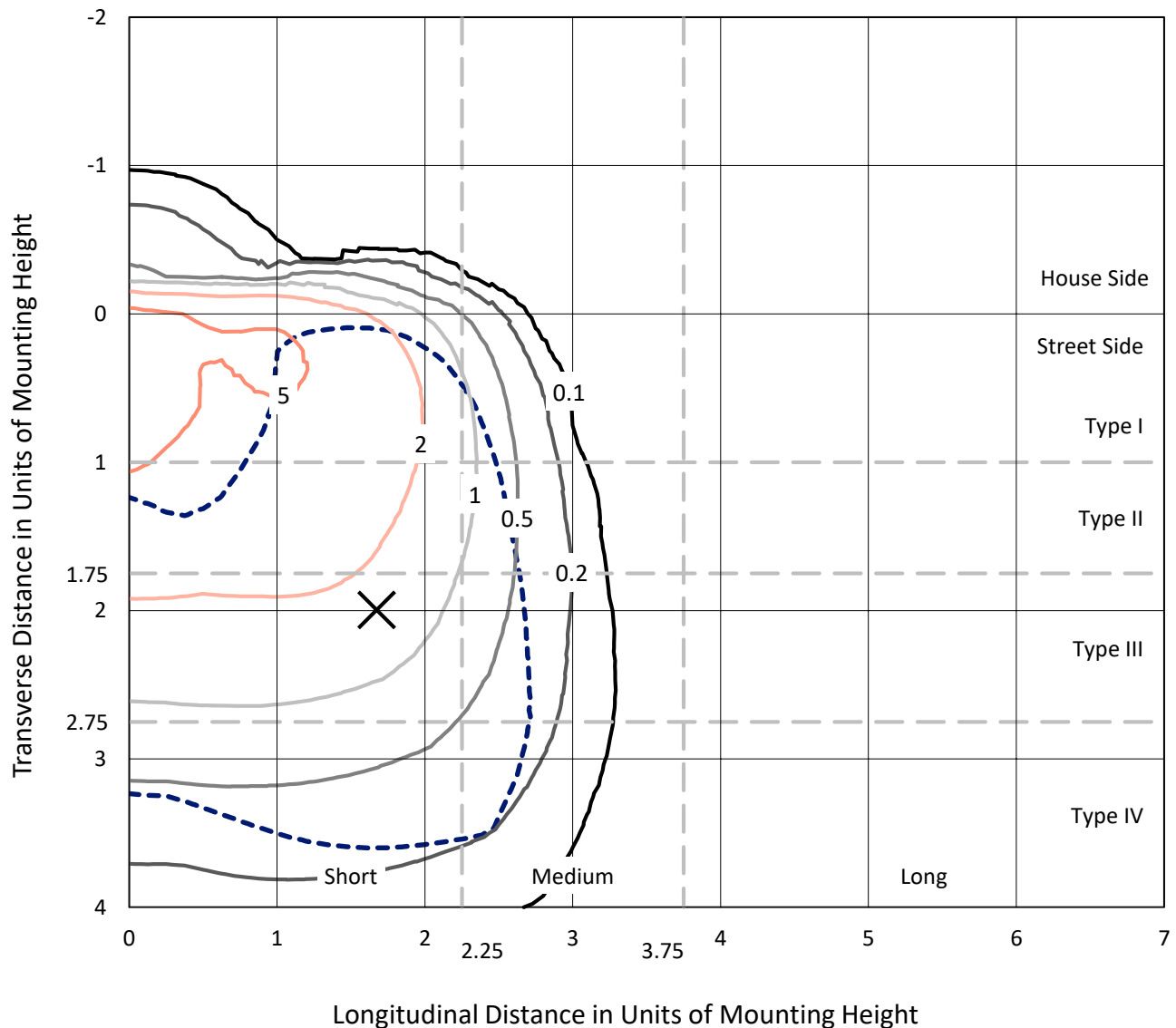
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

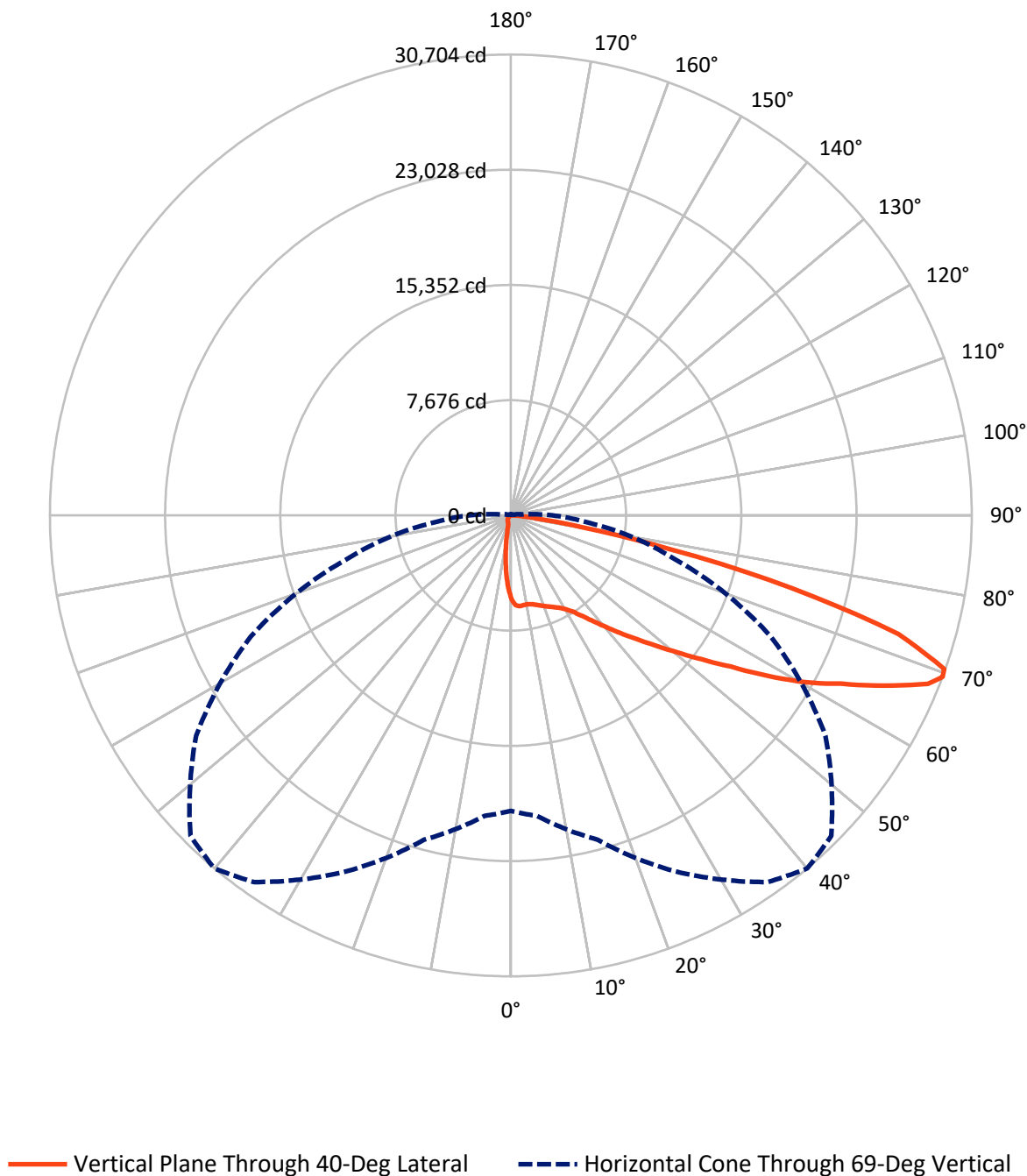


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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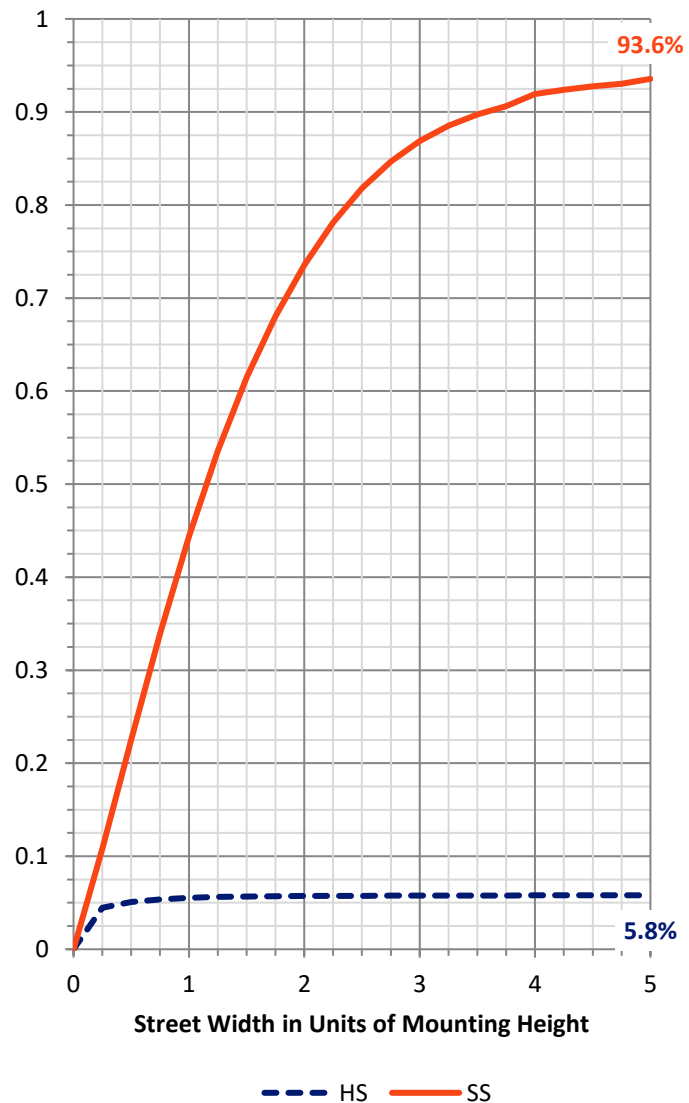
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.1	0.0	2186.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	35179.5	0.0	35179.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	37365.6	0.0	37365.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.6	1.2
10°-20°	1113.1	3.0
20°-30°	1874.9	5.0
30°-40°	3069.2	8.2
40°-50°	5314.3	14.2
50°-60°	8370.5	22.4
60°-70°	10931.6	29.3
70°-80°	5630.3	15.1
80°-90°	609.0	1.6
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°	37365.6	100.0
0°-180°	37365.6	100.0

Coefficient of Utilization



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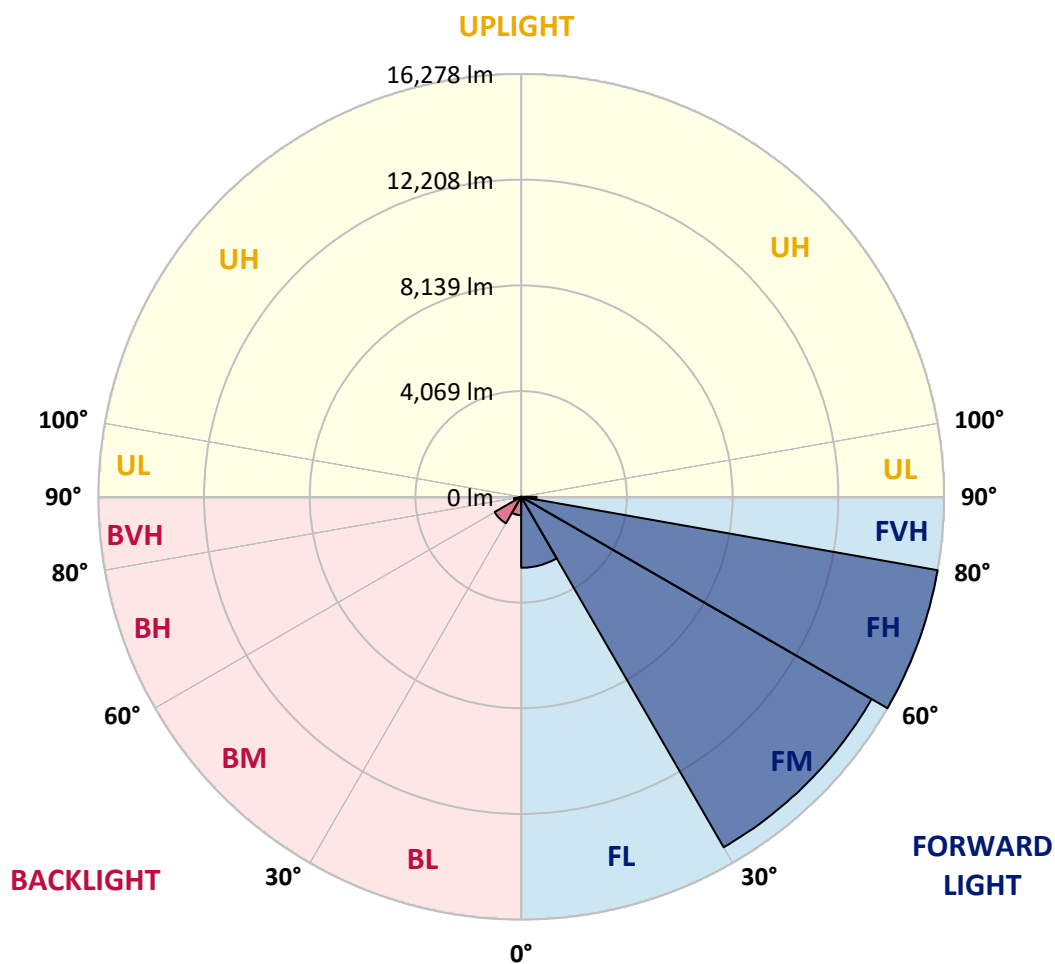
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2732.5	7.3			
FM	(30°-60°)	15579.1	41.7			
FH	(60°-80°)	16278.0	43.6			G5
FVH	(80°-90°)	589.9	1.6			G4/750
BL	(0°-30°)	708.1	1.9	B2/1000		
BM	(30°-60°)	1175.0	3.1	B2/2500		
BH	(60°-80°)	283.9	0.8	B1/500		G1/500
BVH	(80°-90°)	19.1	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6
2.5°	6129.8	6096.3	6076.4	6049.6	6016.4	5987.4	5976.3	5894.0	5816.2	5709.4	5587.1
5°	6243.2	6232.0	6196.4	6160.9	6120.8	6076.4	6051.9	5954.1	5842.8	5687.2	5473.7
7.5°	6254.3	6241.0	6196.4	6147.6	6092.0	6038.5	5996.2	5898.5	5796.1	5638.3	5378.0
10°	6236.5	6220.9	6187.6	6134.3	6065.2	6014.0	5971.8	5878.3	5791.8	5649.4	5360.2
12.5°	6216.6	6200.9	6185.3	6158.6	6098.7	6063.1	6027.4	5938.5	5860.6	5740.5	5424.7
15°	6236.5	6227.6	6245.4	6234.4	6200.9	6169.8	6134.3	6054.2	5982.9	5882.8	5542.6
17.5°	6320.9	6320.9	6376.6	6383.3	6352.2	6307.6	6256.5	6176.4	6116.5	6031.8	5682.7
20°	6519.0	6512.3	6583.5	6596.8	6521.2	6452.2	6376.6	6278.8	6232.0	6178.7	5820.6
22.5°	6859.3	6828.1	6870.4	6857.0	6708.1	6601.2	6507.8	6387.8	6363.3	6338.7	5974.1
25°	7301.9	7284.1	7312.9	7181.7	6919.3	6774.7	6663.5	6527.9	6527.9	6552.4	6147.6
27.5°	7944.7	7877.9	7780.1	7548.7	7155.1	6970.5	6850.3	6705.8	6743.6	6834.8	6376.6
30°	8603.0	8529.7	8305.1	7949.0	7441.9	7248.5	7108.4	6957.1	7046.1	7212.9	6683.6
32.5°	9252.4	9170.1	8852.0	8402.8	7853.4	7659.9	7524.2	7357.5	7506.5	7786.7	7132.9
35°	9881.9	9808.5	9441.5	8912.2	8400.6	8240.5	8115.9	7971.3	8162.6	8554.0	7766.7
37.5°	10589.2	10509.1	10062.0	9488.2	9065.6	8950.0	8858.7	8714.2	9047.9	9621.7	8649.7
40°	11458.8	11323.1	10720.4	10148.8	9835.2	9779.6	9717.3	9697.3	10215.5	11009.5	9826.2
42.5°	12455.2	12232.7	11409.8	10845.0	10680.3	10720.4	10704.7	10793.8	11676.7	12735.5	11258.6
45°	13451.7	13164.7	12177.2	11587.8	11610.0	11750.2	11836.9	12192.8	13507.2	14714.9	12799.9
47.5°	14296.8	14014.3	12913.4	12390.8	12657.5	12933.4	13169.1	13843.0	15388.8	16663.3	13998.8
50°	15019.7	14752.7	13694.1	13273.7	13874.2	14319.1	14701.6	15700.2	17412.8	18146.8	14839.5
52.5°	15611.3	15433.3	14503.6	14285.6	15264.3	15916.1	16476.6	17673.1	19205.5	19352.3	15493.4
55°	16187.3	16060.6	15373.4	15488.9	16896.8	17784.2	18493.8	19766.0	20749.1	20357.6	16120.6
57.5°	16850.2	16734.4	16365.3	17014.7	19043.2	20159.7	20933.6	21621.0	22108.1	21385.2	16712.2
60°	17526.3	17459.5	17468.5	18709.5	21507.4	22579.5	23006.6	23184.5	23442.5	22352.7	16745.6
62.5°	18171.2	18298.0	18729.5	20595.6	23867.3	24690.3	24905.9	25081.7	24779.2	22506.1	15471.2
65°	19263.4	19470.2	20500.0	23120.1	26462.9	27343.7	27566.1	26963.3	24990.6	20522.1	12584.3
67.5°	19797.1	20175.3	22012.4	25473.1	28980.6	29959.2	29877.0	27085.7	22426.1	15649.1	8075.9
69°	19685.9	20088.5	22361.5	26193.9	29817.0	30704.4	30181.7	25588.8	19105.4	11336.5	4957.6
70°	19245.6	19652.6	22181.4	26167.0	29923.7	30626.5	29616.7	23740.5	16154.0	8289.4	3100.4
72.5°	16071.7	16423.1	19692.6	23651.6	27566.1	26994.4	24777.0	16447.6	7871.2	2257.6	698.3
75°	9893.0	10088.8	14130.0	17817.7	20820.2	19352.3	16507.7	8182.7	2346.5	638.3	387.0
77.5°	5226.8	5315.7	7735.5	10502.4	13198.1	10920.6	8460.7	3191.7	1080.9	400.3	280.2
80°	3089.3	3156.1	4165.8	4802.0	5711.6	4770.8	3382.8	1959.4	774.0	251.3	249.1
82.5°	1768.2	1810.4	3020.4	2668.9	2250.8	1921.7	1683.6	1857.2	464.9	169.1	258.0
85°	649.4	658.4	1699.2	2030.7	1339.0	796.3	836.3	1539.1	124.5	106.7	202.3
87.5°	302.4	295.8	874.1	1243.3	783.0	504.9	651.6	338.0	48.9	69.0	55.6
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°	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6	5582.6
2.5°	5515.9	5433.6	5284.6	5131.2	4975.4	4855.3	4737.5	4644.1	4612.9	4555.0	4559.5
5°	5346.8	5195.6	4884.2	4568.3	4239.3	3967.9	3712.1	3505.2	3405.2	3302.9	3302.9
7.5°	5200.0	4979.8	4492.7	3979.0	3447.4	3000.4	2597.8	2295.3	2128.5	1995.1	1992.9
10°	5144.5	4846.4	4165.8	3429.6	2689.0	2079.5	1601.4	1294.5	1136.6	1034.2	1029.8
12.5°	5168.9	4799.8	3914.5	2922.5	1992.9	1336.7	927.5	729.6	662.7	631.6	631.6
15°	5240.1	4786.3	3663.1	2426.5	1408.0	836.3	616.1	562.6	558.4	558.4	558.4
17.5°	5326.8	4790.8	3405.2	1943.9	958.6	598.3	531.5	524.9	529.4	529.4	529.4
20°	5415.8	4792.9	3127.1	1496.9	676.1	520.4	500.4	498.2	502.7	502.7	504.9
22.5°	5524.8	4804.1	2849.2	1118.7	558.4	491.5	476.0	476.0	478.2	478.2	476.0
25°	5649.4	4826.4	2560.0	829.6	509.3	471.6	458.2	455.9	458.2	455.9	453.8
27.5°	5805.1	4857.5	2237.5	649.4	487.1	451.5	440.5	440.5	438.1	436.0	433.8
30°	6000.7	4893.1	1875.0	551.5	464.9	433.8	422.7	420.3	418.1	413.6	413.6
32.5°	6298.8	4971.0	1516.8	500.4	440.5	409.2	400.3	400.3	395.8	391.4	389.2
35°	6756.9	5124.5	1196.6	469.3	413.6	382.5	371.5	371.5	367.0	364.7	362.5
37.5°	7390.9	5358.0	929.7	440.5	387.0	353.7	342.5	340.4	335.9	331.4	329.2
40°	8233.8	5647.1	731.7	413.6	360.3	324.7	315.9	311.4	302.4	295.8	295.8
42.5°	9292.5	5976.3	593.9	384.8	329.2	298.1	291.4	284.7	269.1	262.4	260.2
45°	10400.1	6272.1	502.7	351.4	298.1	271.4	266.9	255.7	235.8	229.1	229.1
47.5°	11198.5	6341.1	442.6	320.2	269.1	242.4	240.3	220.1	202.3	198.0	195.7
50°	11696.8	6205.4	393.7	289.1	242.4	215.8	209.1	184.6	173.5	169.1	166.8
52.5°	12032.6	5963.0	353.7	262.4	218.0	191.3	175.7	157.9	149.0	144.5	144.5
55°	12301.7	5620.4	313.6	237.9	198.0	171.2	149.0	135.7	126.7	122.4	122.4
57.5°	12377.3	5155.6	273.5	218.0	178.0	151.3	126.7	117.9	106.7	104.6	104.6
60°	11828.0	4317.1	242.4	193.5	160.2	131.2	111.2	100.1	88.9	86.8	84.5
62.5°	10380.0	3340.7	213.5	171.2	140.1	113.4	95.6	82.3	73.4	73.4	73.4
65°	7917.9	2239.7	186.9	149.0	122.4	95.6	82.3	66.7	62.3	62.3	64.5
67.5°	4739.6	1218.8	160.2	126.7	104.6	80.1	69.0	57.8	55.6	57.8	57.8
69°	2777.9	716.2	144.5	113.4	91.2	71.1	60.1	51.2	55.6	57.8	57.8
70°	1714.9	482.6	133.4	102.2	82.3	64.5	55.6	48.9	53.4	55.6	55.6
72.5°	478.2	249.1	106.7	80.1	66.7	53.4	44.5	44.5	51.2	53.4	53.4
75°	311.4	184.6	82.3	60.1	51.2	42.3	37.8	42.3	48.9	51.2	51.2
77.5°	258.0	151.3	66.7	48.9	42.3	40.0	35.6	37.8	44.5	46.7	46.7
80°	235.8	106.7	53.4	44.5	37.8	35.6	33.4	31.1	40.0	42.3	42.3
82.5°	224.6	84.5	46.7	40.0	35.6	31.1	29.0	31.1	35.6	37.8	40.0
85°	140.1	55.6	42.3	37.8	31.1	29.0	29.0	29.0	33.4	35.6	35.6
87.5°	51.2	44.5	37.8	31.1	26.7	26.7	26.7	26.7	29.0	33.4	33.4
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)