

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: P192951

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192951
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-03-LED-E1-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 14264.9 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 166
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

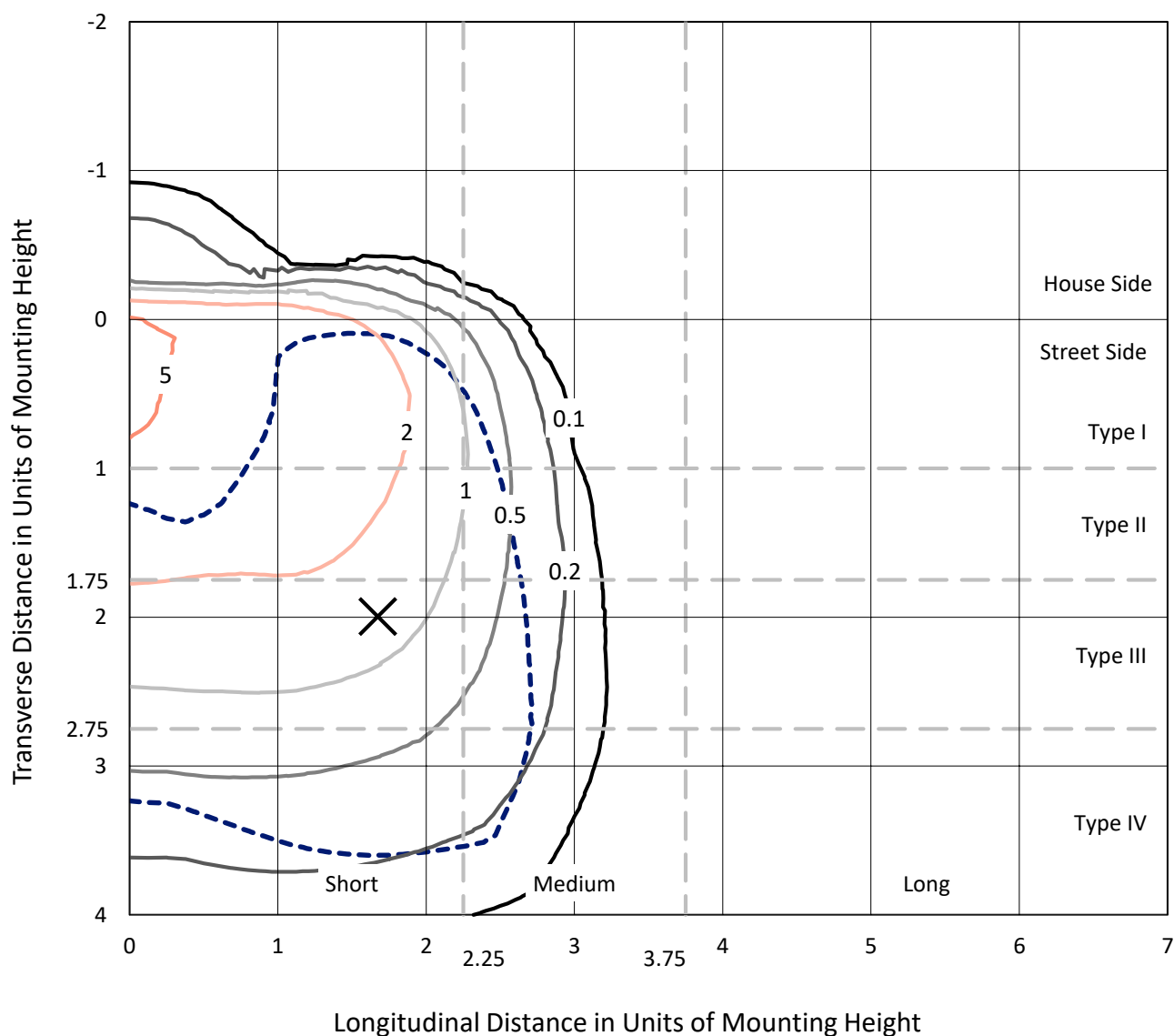


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

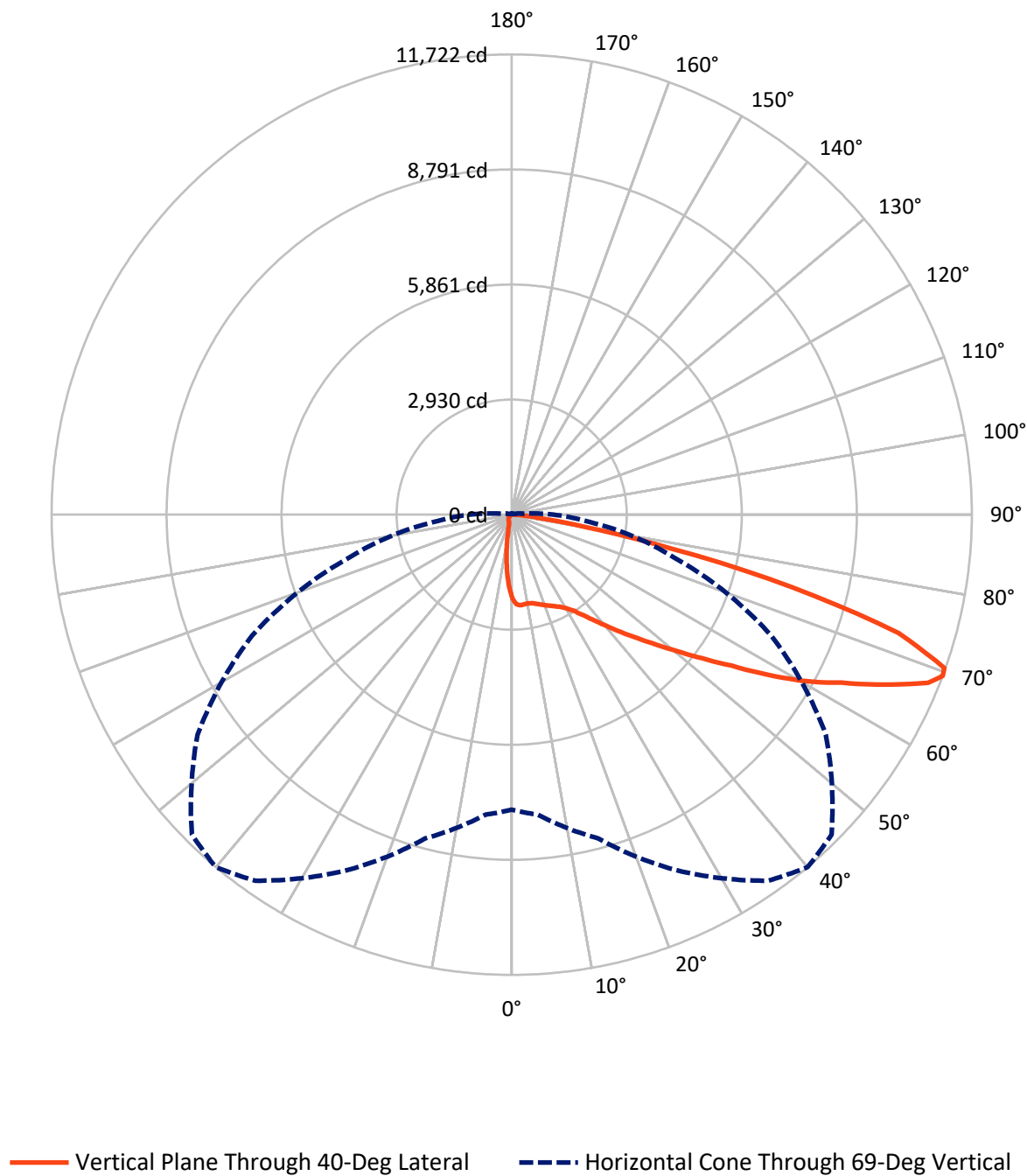


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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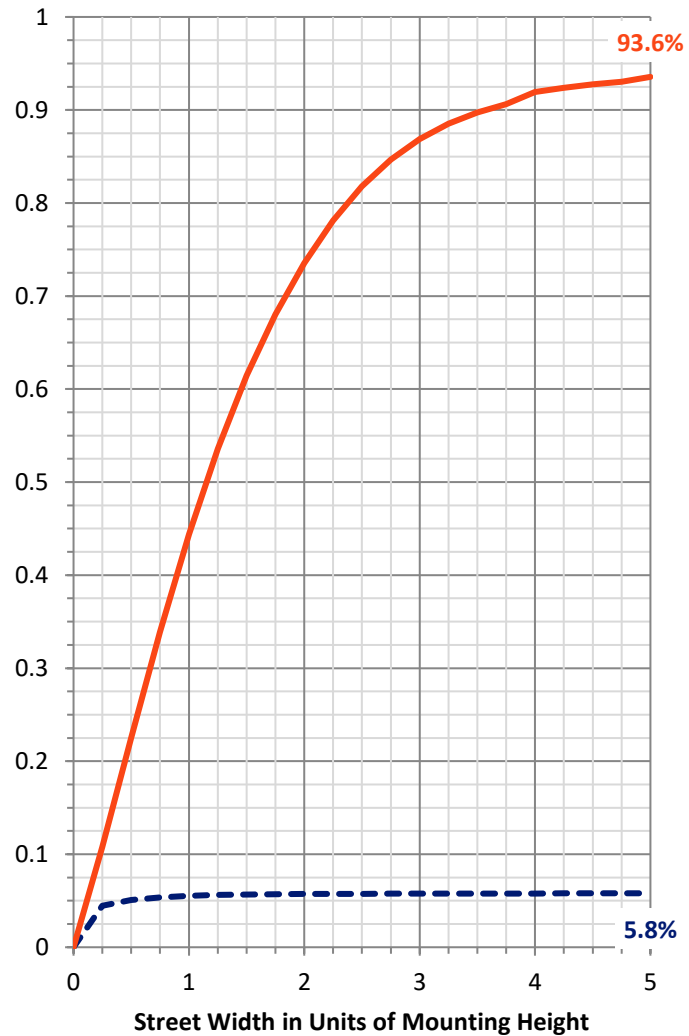
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	834.6	0.0	834.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	13430.3	0.0	13430.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	14264.9	0.0	14264.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.2
10°-20°	425.0	3.0
20°-30°	715.8	5.0
30°-40°	1171.7	8.2
40°-50°	2028.8	14.2
50°-60°	3195.6	22.4
60°-70°	4173.3	29.3
70°-80°	2149.4	15.1
80°-90°	232.5	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°	14264.9	100.0
0°-180°	14264.9	100.0



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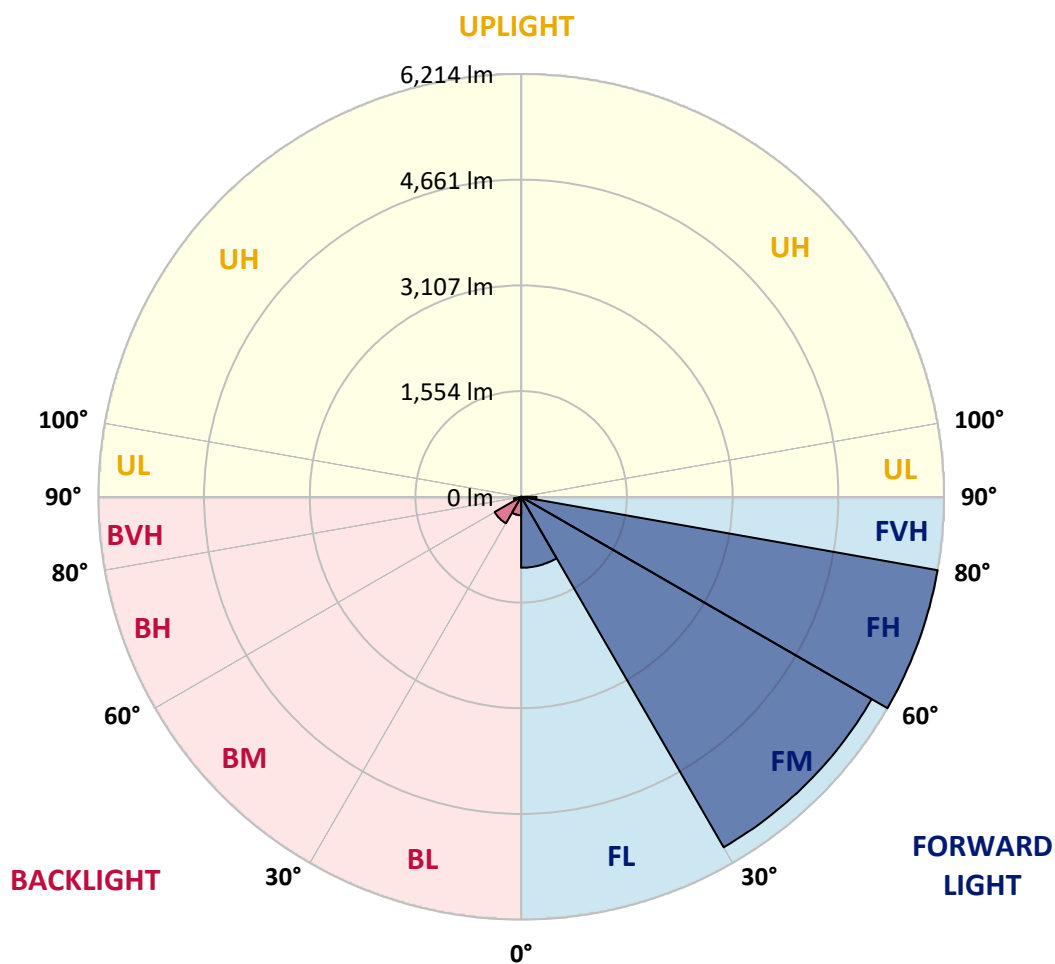
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.2	7.3			
FM	(30°-60°)	5947.6	41.7			
FH	(60°-80°)	6214.4	43.6			G3/7500
FVH	(80°-90°)	225.2	1.6			G3/500
BL	(0°-30°)	270.3	1.9	B1/500		
BM	(30°-60°)	448.6	3.1	B1/1000		
BH	(60°-80°)	108.4	0.8	B0/110		G0/110
BVH	(80°-90°)	7.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2
2.5°	2340.2	2327.4	2319.8	2309.5	2296.8	2285.8	2281.6	2250.0	2220.3	2179.6	2133.0
5°	2383.4	2379.2	2365.6	2352.1	2336.7	2319.8	2310.4	2273.0	2230.6	2171.2	2089.7
7.5°	2387.7	2382.6	2365.6	2346.9	2325.7	2305.3	2289.2	2251.9	2212.7	2152.5	2053.1
10°	2380.9	2375.0	2362.1	2341.9	2315.5	2296.0	2279.8	2244.1	2211.1	2156.7	2046.3
12.5°	2373.2	2367.3	2361.3	2351.2	2328.2	2314.6	2301.1	2267.1	2237.4	2191.5	2071.0
15°	2380.9	2377.5	2384.2	2380.0	2367.3	2355.4	2341.9	2311.3	2284.1	2245.9	2116.0
17.5°	2413.1	2413.1	2434.4	2436.9	2425.0	2408.1	2388.5	2358.0	2335.0	2302.7	2169.5
20°	2488.7	2486.2	2513.3	2518.4	2489.6	2463.2	2434.4	2397.0	2379.2	2358.8	2222.2
22.5°	2618.6	2606.7	2622.9	2617.8	2560.9	2520.2	2484.4	2438.6	2429.3	2420.0	2280.7
25°	2787.6	2780.7	2791.9	2741.8	2641.6	2586.3	2543.9	2492.1	2492.1	2501.5	2346.9
27.5°	3033.0	3007.5	2970.2	2881.8	2731.6	2661.1	2615.2	2560.1	2574.4	2609.3	2434.4
30°	3284.4	3256.4	3170.6	3034.6	2841.1	2767.2	2713.8	2656.0	2690.0	2753.7	2551.5
32.5°	3532.3	3500.8	3379.4	3208.0	2998.2	2924.4	2872.5	2808.8	2865.8	2972.7	2723.1
35°	3772.6	3744.6	3604.5	3402.4	3207.1	3145.9	3098.4	3043.2	3116.2	3265.6	2965.1
37.5°	4042.6	4012.0	3841.3	3622.3	3460.9	3416.7	3382.0	3326.8	3454.1	3673.2	3302.2
40°	4374.6	4322.8	4092.7	3874.5	3754.7	3733.5	3709.7	3702.1	3899.9	4203.1	3751.3
42.5°	4755.0	4670.1	4355.9	4140.3	4077.3	4092.7	4086.8	4120.7	4457.8	4861.9	4298.2
45°	5135.4	5025.8	4648.9	4423.8	4432.3	4485.8	4519.0	4654.8	5156.6	5617.7	4886.6
47.5°	5458.0	5350.2	4929.9	4730.4	4832.2	4937.5	5027.6	5284.8	5875.0	6361.5	5344.2
50°	5734.0	5632.1	5227.9	5067.5	5296.7	5466.6	5612.5	5993.9	6647.7	6927.8	5665.2
52.5°	5959.9	5892.0	5537.0	5453.7	5827.4	6076.1	6290.2	6747.0	7332.0	7388.0	5914.9
55°	6179.8	6131.4	5869.0	5913.1	6450.6	6789.5	7060.4	7546.0	7921.3	7771.8	6154.2
57.5°	6432.7	6388.6	6247.7	6495.7	7270.0	7696.2	7991.8	8254.1	8440.1	8164.1	6380.2
60°	6690.9	6665.5	6668.8	7142.6	8210.9	8620.1	8783.2	8851.1	8949.5	8533.4	6392.9
62.5°	6937.2	6985.6	7150.3	7862.8	9111.6	9425.9	9508.3	9575.4	9459.8	8592.0	5906.3
65°	7354.1	7433.0	7826.1	8826.4	10102.6	10438.8	10523.8	10293.7	9540.5	7834.7	4804.2
67.5°	7557.9	7702.2	8403.5	9724.7	11063.8	11437.4	11406.0	10340.4	8561.5	5974.3	3083.1
69°	7515.4	7669.1	8536.9	9999.9	11383.0	11721.9	11522.4	9769.0	7293.8	4327.9	1892.7
70°	7347.2	7502.8	8468.1	9989.7	11423.8	11692.2	11306.7	9063.3	6167.0	3164.5	1183.6
72.5°	6135.6	6269.8	7517.9	9029.4	10523.8	10305.6	9459.0	6279.1	3004.9	861.8	266.6
75°	3776.8	3851.5	5394.3	6802.2	7948.5	7388.0	6302.1	3123.8	895.8	243.6	147.7
77.5°	1995.4	2029.4	2953.2	4009.5	5038.6	4169.2	3230.0	1218.5	412.7	152.9	107.0
80°	1179.5	1204.9	1590.4	1833.3	2180.5	1821.4	1291.5	748.1	295.4	95.9	95.0
82.5°	675.0	691.2	1153.1	1019.0	859.4	733.6	642.8	709.0	177.4	64.6	98.5
85°	247.9	251.3	648.7	775.2	511.2	304.0	319.2	587.6	47.5	40.8	77.2
87.5°	115.5	113.0	333.7	474.6	299.0	192.8	248.8	129.0	18.7	26.3	21.2
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°	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2	2131.2
2.5°	2105.8	2074.4	2017.5	1958.9	1899.5	1853.6	1808.6	1773.0	1761.0	1739.0	1740.6
5°	2041.3	1983.5	1864.6	1744.1	1618.3	1514.8	1417.2	1338.2	1299.9	1261.0	1261.0
7.5°	1985.2	1901.1	1715.2	1519.0	1316.1	1145.5	991.7	876.3	812.6	761.6	760.8
10°	1963.9	1850.2	1590.4	1309.4	1026.6	793.9	611.3	494.2	433.9	394.9	393.2
12.5°	1973.3	1832.4	1494.4	1115.7	760.8	510.4	354.1	278.5	253.1	241.1	241.1
15°	2000.5	1827.3	1398.5	926.4	537.4	319.2	235.2	214.8	213.2	213.2	213.2
17.5°	2033.7	1829.0	1299.9	742.1	365.9	228.5	202.9	200.4	202.1	202.1	202.1
20°	2067.5	1829.8	1193.8	571.4	258.2	198.8	191.1	190.2	191.9	191.9	192.8
22.5°	2109.1	1834.0	1087.6	427.1	213.2	187.6	181.7	181.7	182.6	182.6	181.7
25°	2156.7	1842.5	977.4	316.8	194.5	180.1	175.0	174.0	175.0	174.0	173.1
27.5°	2216.1	1854.4	854.2	247.9	186.0	172.4	168.2	168.2	167.2	166.4	165.5
30°	2290.8	1868.0	715.7	210.6	177.4	165.5	161.3	160.5	159.6	157.9	157.9
32.5°	2404.7	1897.8	579.1	191.1	168.2	156.2	152.9	152.9	151.1	149.4	148.6
35°	2579.6	1956.3	456.8	179.1	157.9	146.1	141.8	141.8	140.1	139.3	138.4
37.5°	2821.6	2045.5	354.9	168.2	147.7	135.1	130.8	129.9	128.2	126.5	125.6
40°	3143.4	2155.9	279.3	157.9	137.5	124.0	120.6	118.9	115.5	113.0	113.0
42.5°	3547.5	2281.6	226.7	146.9	125.6	113.7	111.2	108.7	102.7	100.2	99.3
45°	3970.4	2394.4	191.9	134.2	113.7	103.6	101.9	97.7	90.0	87.4	87.4
47.5°	4275.2	2420.7	169.1	122.3	102.7	92.6	91.7	84.0	77.2	75.6	74.8
50°	4465.4	2369.0	150.3	110.4	92.6	82.4	79.9	70.5	66.2	64.6	63.7
52.5°	4593.7	2276.4	135.1	100.2	83.2	72.9	67.0	60.3	57.0	55.1	55.1
55°	4696.4	2145.7	119.7	90.9	75.6	65.3	57.0	51.8	48.4	46.7	46.7
57.5°	4725.3	1968.2	104.5	83.2	68.0	57.7	48.4	45.1	40.8	39.9	39.9
60°	4515.5	1648.0	92.6	73.9	61.1	50.1	42.5	38.2	34.0	33.1	32.2
62.5°	3962.8	1275.4	81.5	65.3	53.5	43.2	36.5	31.4	28.0	28.0	28.0
65°	3022.7	855.1	71.3	57.0	46.7	36.5	31.4	25.4	23.8	23.8	24.6
67.5°	1809.5	465.3	61.1	48.4	39.9	30.6	26.3	22.1	21.2	22.1	22.1
69°	1060.6	273.3	55.1	43.2	34.9	27.2	23.0	19.5	21.2	22.1	22.1
70°	654.7	184.2	51.0	39.0	31.4	24.6	21.2	18.7	20.4	21.2	21.2
72.5°	182.6	95.0	40.8	30.6	25.4	20.4	16.9	16.9	19.5	20.4	20.4
75°	118.9	70.5	31.4	23.0	19.5	16.2	14.4	16.2	18.7	19.5	19.5
77.5°	98.5	57.7	25.4	18.7	16.2	15.3	13.5	14.4	16.9	17.8	17.8
80°	90.0	40.8	20.4	16.9	14.4	13.5	12.8	11.9	15.3	16.2	16.2
82.5°	85.8	32.2	17.8	15.3	13.5	11.9	11.0	11.9	13.5	14.4	15.3
85°	53.5	21.2	16.2	14.4	11.9	11.0	11.0	11.0	12.8	13.5	13.5
87.5°	19.5	16.9	14.4	11.9	10.2	10.2	10.2	10.2	11.0	12.8	12.8
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)