

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: P192932

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192932
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-04-LED-E1-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 12418.5 lumens
Efficiency: N/A
Efficacy: 96.3 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): 129
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

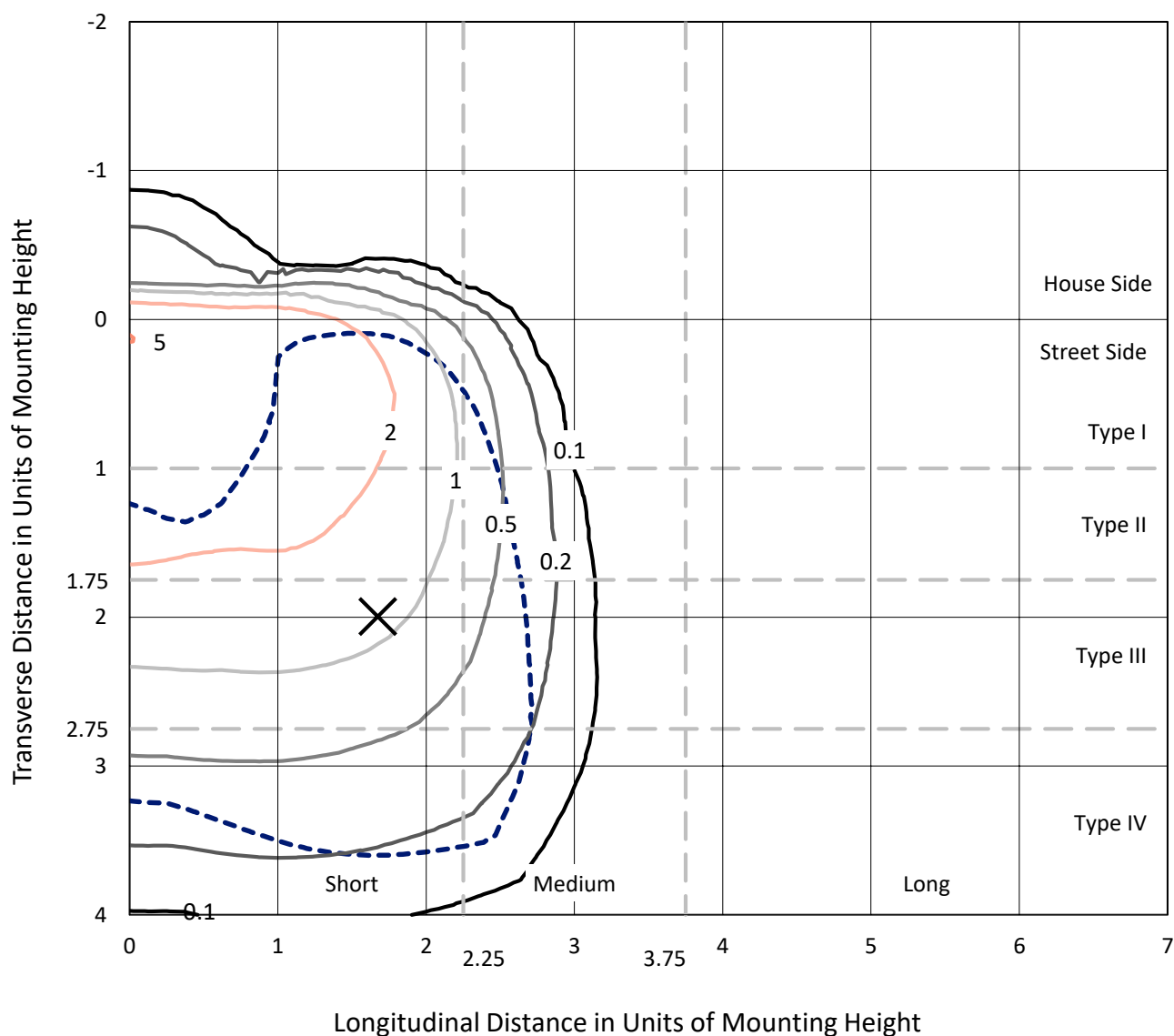


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

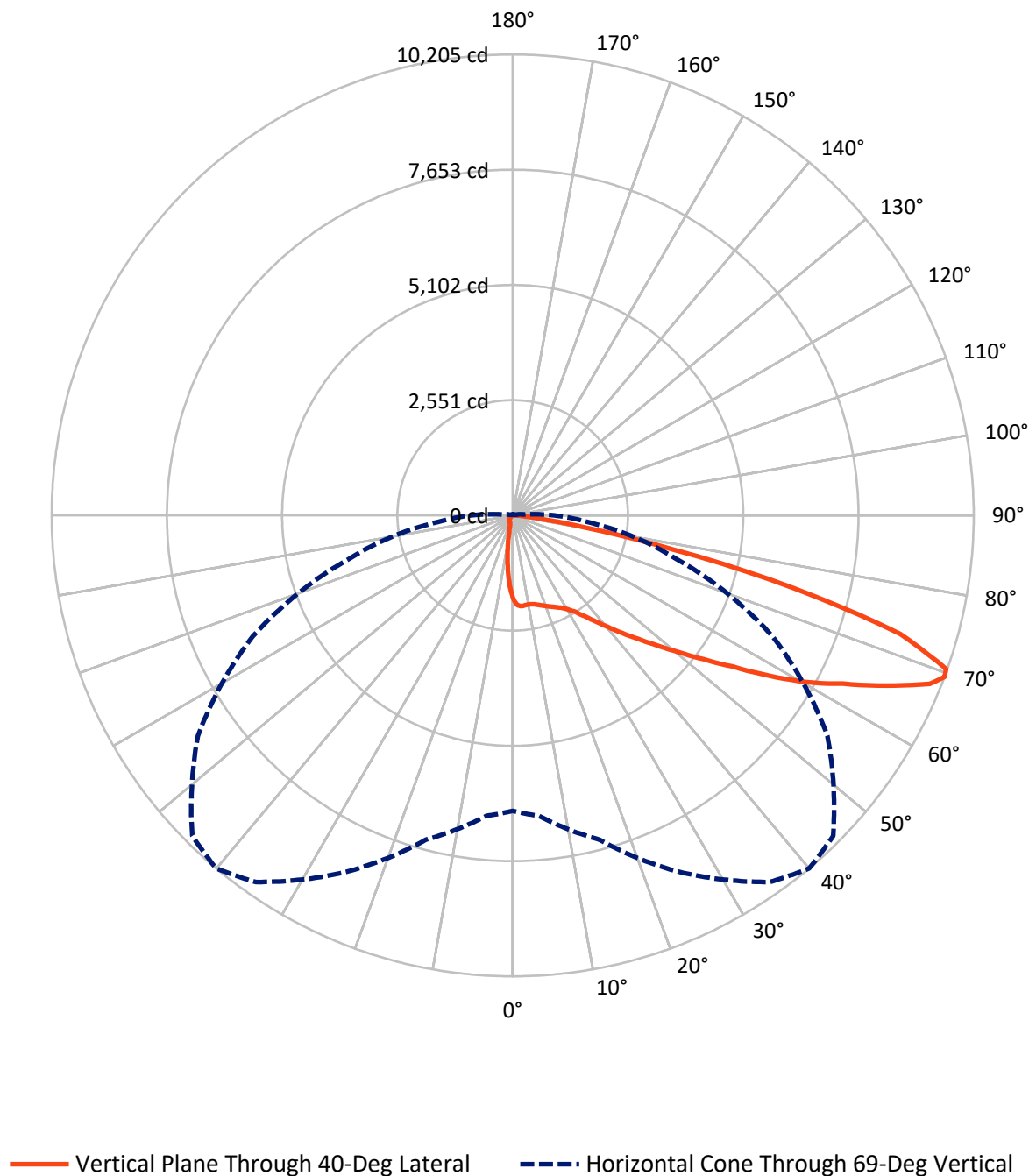


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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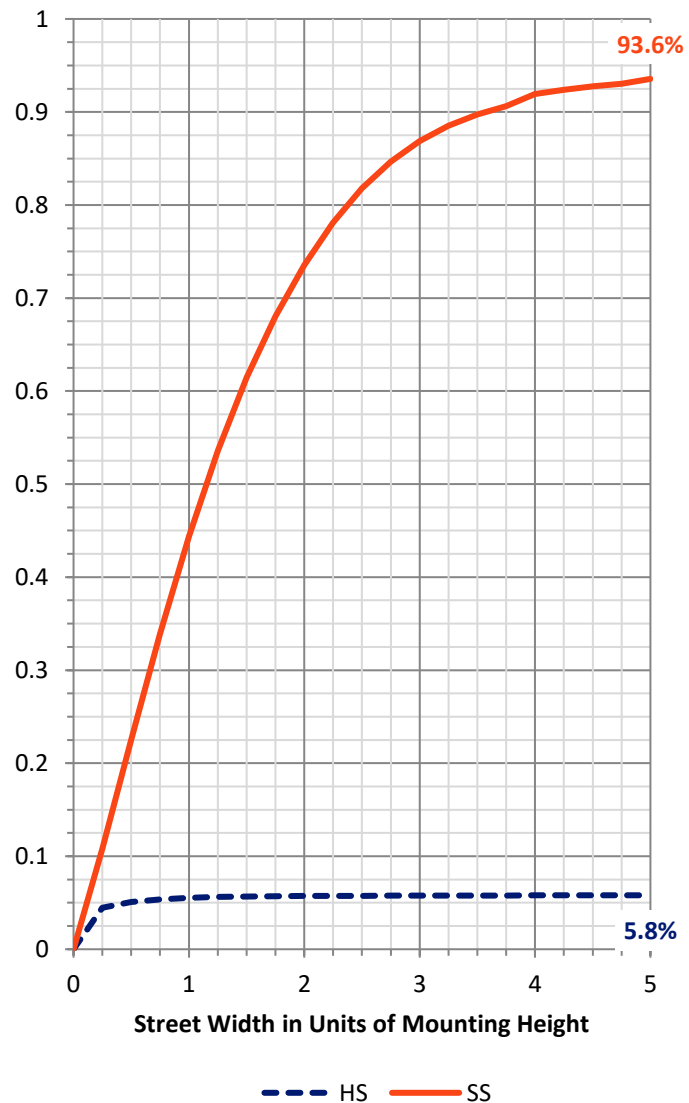
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	726.6	0.0	726.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	11691.9	0.0	11691.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	12418.5	0.0	12418.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	1.2
10°-20°	369.9	3.0
20°-30°	623.1	5.0
30°-40°	1020.1	8.2
40°-50°	1766.2	14.2
50°-60°	2782.0	22.4
60°-70°	3633.1	29.3
70°-80°	1871.2	15.1
80°-90°	202.4	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°	12418.5	100.0
0°-180°	12418.5	100.0

Coefficient of Utilization



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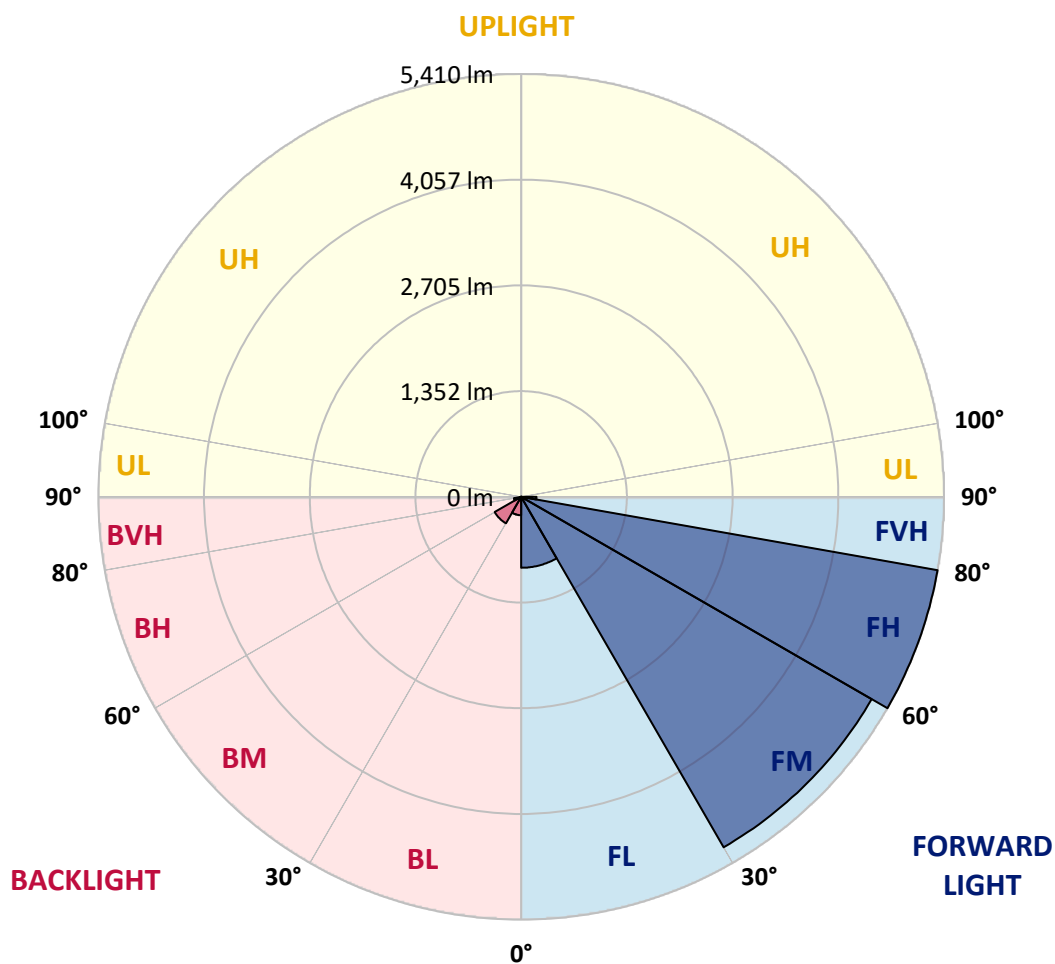
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	908.1	7.3			
FM	(30°-60°)	5177.7	41.7			
FH	(60°-80°)	5410.0	43.6			G3/7500
FVH	(80°-90°)	196.1	1.6			G2/225
BL	(0°-30°)	235.4	1.9	B1/500		
BM	(30°-60°)	390.5	3.1	B1/1000		
BH	(60°-80°)	94.4	0.8	B0/110		G0/110
BVH	(80°-90°)	6.4	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°	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3
2.5°	2037.2	2026.1	2019.4	2010.6	1999.6	1989.9	1986.3	1958.9	1933.1	1897.5	1856.9
5°	2075.0	2071.2	2059.4	2047.5	2034.3	2019.4	2011.4	1978.8	1941.9	1890.0	1819.1
7.5°	2078.6	2074.2	2059.4	2043.1	2024.7	2006.9	1992.9	1960.3	1926.4	1873.9	1787.4
10°	2072.6	2067.5	2056.5	2038.7	2015.9	1998.8	1984.7	1953.7	1924.8	1877.5	1781.5
12.5°	2066.1	2060.8	2055.7	2046.9	2026.9	2015.1	2003.2	1973.7	1947.8	1907.8	1802.9
15°	2072.6	2069.7	2075.7	2072.0	2060.8	2050.5	2038.7	2012.1	1988.4	1955.2	1842.1
17.5°	2100.8	2100.8	2119.3	2121.5	2111.1	2096.3	2079.3	2052.8	2032.8	2004.7	1888.6
20°	2166.6	2164.3	2188.0	2192.4	2167.2	2144.4	2119.3	2086.8	2071.2	2053.5	1934.4
22.5°	2279.7	2269.4	2283.4	2278.9	2229.4	2193.9	2162.9	2122.9	2114.8	2106.7	1985.5
25°	2426.7	2420.8	2430.5	2386.9	2299.6	2251.7	2214.5	2169.6	2169.6	2177.6	2043.1
27.5°	2640.4	2618.2	2585.7	2508.8	2378.0	2316.7	2276.8	2228.7	2241.2	2271.5	2119.3
30°	2859.2	2834.8	2760.1	2641.9	2473.3	2409.0	2362.5	2312.2	2341.8	2397.1	2221.2
32.5°	3075.0	3047.7	2942.1	2792.6	2610.1	2545.7	2500.7	2445.2	2494.8	2588.0	2370.6
35°	3284.3	3259.9	3137.9	2961.9	2791.9	2738.7	2697.3	2649.3	2712.8	2842.9	2581.2
37.5°	3519.3	3492.7	3344.1	3153.4	3013.0	2974.5	2944.2	2896.1	3007.1	3197.8	2874.7
40°	3808.3	3763.2	3563.0	3373.0	3268.7	3250.3	3229.4	3222.9	3395.1	3659.0	3265.8
42.5°	4139.5	4065.5	3792.1	3604.4	3549.7	3563.0	3557.7	3587.3	3880.8	4232.6	3741.8
45°	4470.7	4375.3	4047.1	3851.2	3858.6	3905.2	3934.0	4052.2	4489.1	4890.6	4254.0
47.5°	4751.5	4657.6	4291.7	4118.1	4206.7	4298.4	4376.7	4600.7	5114.4	5538.1	4652.5
50°	4991.7	4903.1	4551.2	4411.5	4611.1	4758.9	4886.1	5218.0	5787.1	6031.1	4931.9
52.5°	5188.4	5129.2	4820.3	4747.9	5073.1	5289.7	5476.0	5873.7	6382.9	6431.8	5149.2
55°	5379.8	5337.8	5109.3	5147.8	5615.6	5910.6	6146.4	6569.2	6895.9	6765.9	5357.6
57.5°	5600.1	5561.8	5439.0	5654.8	6329.0	6700.0	6957.3	7185.7	7347.5	7107.4	5554.3
60°	5824.8	5802.6	5805.6	6218.1	7148.0	7504.3	7646.2	7705.4	7791.1	7428.9	5565.3
62.5°	6039.2	6081.4	6224.7	6844.9	7932.3	8205.8	8277.5	8335.8	8235.3	7479.9	5141.8
65°	6402.1	6470.9	6813.2	7683.8	8795.0	9087.6	9161.6	8961.2	8305.6	6820.5	4182.3
67.5°	6579.6	6705.2	7315.8	8466.0	9631.6	9956.9	9929.6	9001.9	7453.2	5201.0	2684.1
69°	6542.6	6676.4	7431.9	8705.4	9909.6	10204.6	10030.9	8504.4	6349.7	3767.7	1647.6
70°	6396.2	6531.5	7371.9	8696.6	9945.1	10178.7	9843.0	7890.1	5368.8	2755.0	1030.5
72.5°	5341.3	5458.1	6544.8	7860.5	9161.6	8971.6	8234.7	5466.3	2616.0	750.3	232.0
75°	3287.9	3352.9	4696.1	5921.7	6919.6	6431.8	5486.2	2719.5	779.9	212.2	128.6
77.5°	1737.1	1766.7	2570.9	3490.5	4386.3	3629.5	2811.9	1060.7	359.3	133.1	93.1
80°	1026.7	1048.9	1384.6	1596.0	1898.3	1585.6	1124.3	651.1	257.2	83.6	82.8
82.5°	587.7	601.7	1003.9	887.0	748.1	638.6	559.5	617.2	154.5	56.2	85.8
85°	215.9	218.8	564.8	674.9	445.0	264.6	277.9	511.6	41.4	35.5	67.3
87.5°	100.5	98.4	290.5	413.2	260.1	167.8	216.6	112.3	16.3	23.0	18.5
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°	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3	1855.3
2.5°	1833.2	1805.8	1756.4	1705.3	1653.5	1613.6	1574.5	1543.4	1533.1	1513.9	1515.3
5°	1777.0	1726.8	1623.3	1518.2	1408.9	1318.8	1233.7	1164.9	1131.7	1097.7	1097.7
7.5°	1728.3	1655.1	1493.1	1322.4	1145.8	997.2	863.3	762.8	707.5	663.1	662.3
10°	1709.8	1610.7	1384.6	1139.8	893.6	691.2	532.2	430.3	377.7	343.7	342.2
12.5°	1717.9	1595.1	1301.0	971.4	662.3	444.2	308.2	242.4	220.2	209.9	209.9
15°	1741.6	1590.7	1217.4	806.5	467.9	277.9	204.8	187.1	185.5	185.5	185.5
17.5°	1770.3	1592.2	1131.7	646.0	318.6	198.9	176.7	174.5	175.9	175.9	175.9
20°	1799.9	1593.0	1039.3	497.4	224.7	172.9	166.3	165.5	167.0	167.0	167.8
22.5°	1836.1	1596.6	947.0	371.8	185.5	163.4	158.2	158.2	159.0	159.0	158.2
25°	1877.5	1604.0	850.8	275.8	169.3	156.7	152.3	151.6	152.3	151.6	150.8
27.5°	1929.3	1614.5	743.6	215.9	161.9	150.0	146.4	146.4	145.7	144.9	144.1
30°	1994.3	1626.3	623.1	183.3	154.5	144.1	140.4	139.8	139.0	137.4	137.4
32.5°	2093.4	1652.1	504.1	166.3	146.4	136.0	133.1	133.1	131.5	130.1	129.4
35°	2245.8	1703.2	397.7	156.0	137.4	127.2	123.5	123.5	122.0	121.3	120.5
37.5°	2456.3	1780.7	308.9	146.4	128.6	117.6	113.8	113.1	111.7	110.2	109.4
40°	2736.5	1876.8	243.2	137.4	119.7	107.9	105.0	103.5	100.5	98.4	98.4
42.5°	3088.3	1986.3	197.3	127.9	109.4	99.1	96.8	94.6	89.5	87.2	86.6
45°	3456.4	2084.5	167.0	116.8	99.1	90.1	88.7	85.0	78.3	76.2	76.2
47.5°	3721.8	2107.4	147.1	106.4	89.5	80.6	79.9	73.2	67.3	65.8	65.0
50°	3887.5	2062.4	130.8	96.1	80.6	71.7	69.5	61.4	57.7	56.2	55.4
52.5°	3999.0	1981.8	117.6	87.2	72.4	63.6	58.4	52.5	49.5	48.1	48.1
55°	4088.5	1867.9	104.3	79.1	65.8	57.0	49.5	45.2	42.2	40.7	40.7
57.5°	4113.6	1713.4	90.9	72.4	59.1	50.3	42.2	39.3	35.5	34.8	34.8
60°	3931.0	1434.8	80.6	64.4	53.2	43.6	36.9	33.3	29.6	28.9	28.1
62.5°	3449.9	1110.3	70.9	57.0	46.6	37.7	31.8	27.4	24.4	24.4	24.4
65°	2631.5	744.4	62.1	49.5	40.7	31.8	27.4	22.2	20.6	20.6	21.5
67.5°	1575.2	405.1	53.2	42.2	34.8	26.7	23.0	19.2	18.5	19.2	19.2
69°	923.2	237.9	48.1	37.7	30.3	23.6	20.0	17.1	18.5	19.2	19.2
70°	569.9	160.4	44.4	34.0	27.4	21.5	18.5	16.3	17.7	18.5	18.5
72.5°	159.0	82.8	35.5	26.7	22.2	17.7	14.7	14.7	17.1	17.7	17.7
75°	103.5	61.4	27.4	20.0	17.1	14.1	12.6	14.1	16.3	17.1	17.1
77.5°	85.8	50.3	22.2	16.3	14.1	13.3	11.8	12.6	14.7	15.6	15.6
80°	78.3	35.5	17.7	14.7	12.6	11.8	11.0	10.4	13.3	14.1	14.1
82.5°	74.7	28.1	15.6	13.3	11.8	10.4	9.7	10.4	11.8	12.6	13.3
85°	46.6	18.5	14.1	12.6	10.4	9.7	9.7	9.7	11.0	11.8	11.8
87.5°	17.1	14.7	12.6	10.4	8.8	8.8	8.8	8.8	9.7	11.0	11.0
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)