

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: P194541

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194541
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-SL4-7060-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 11917 lumens
Efficiency: N/A
Efficacy: 96.1 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): 124
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



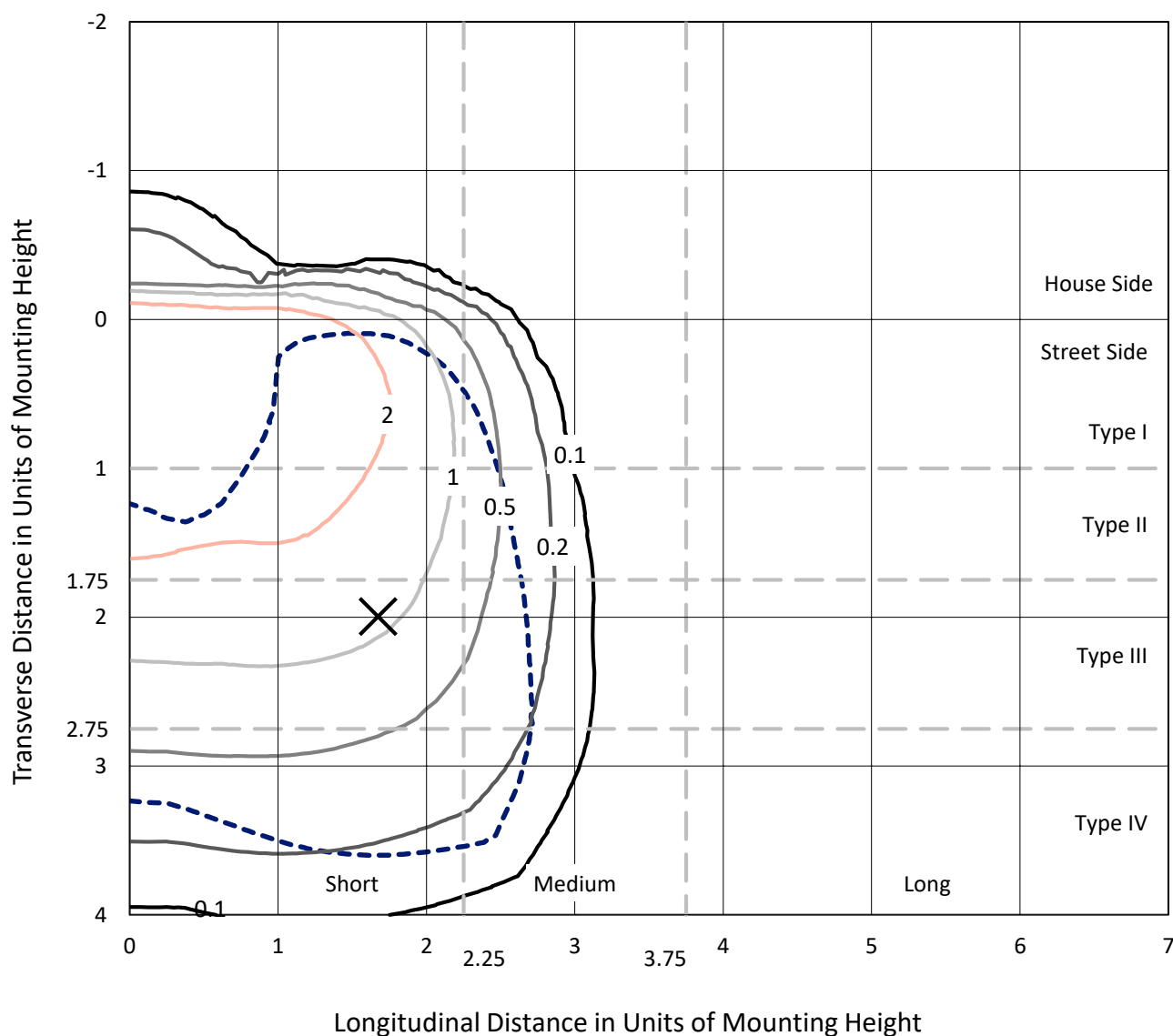
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

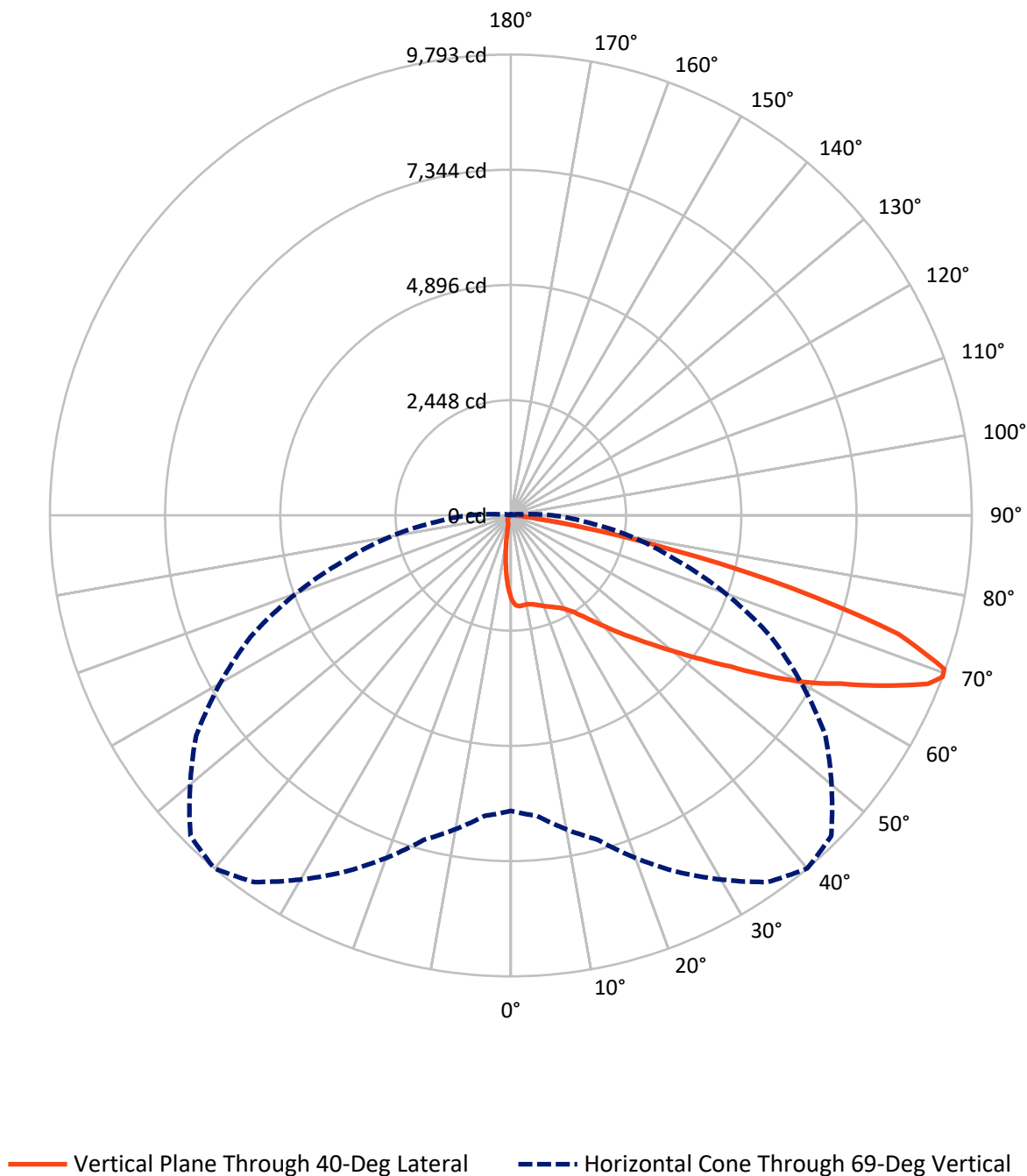


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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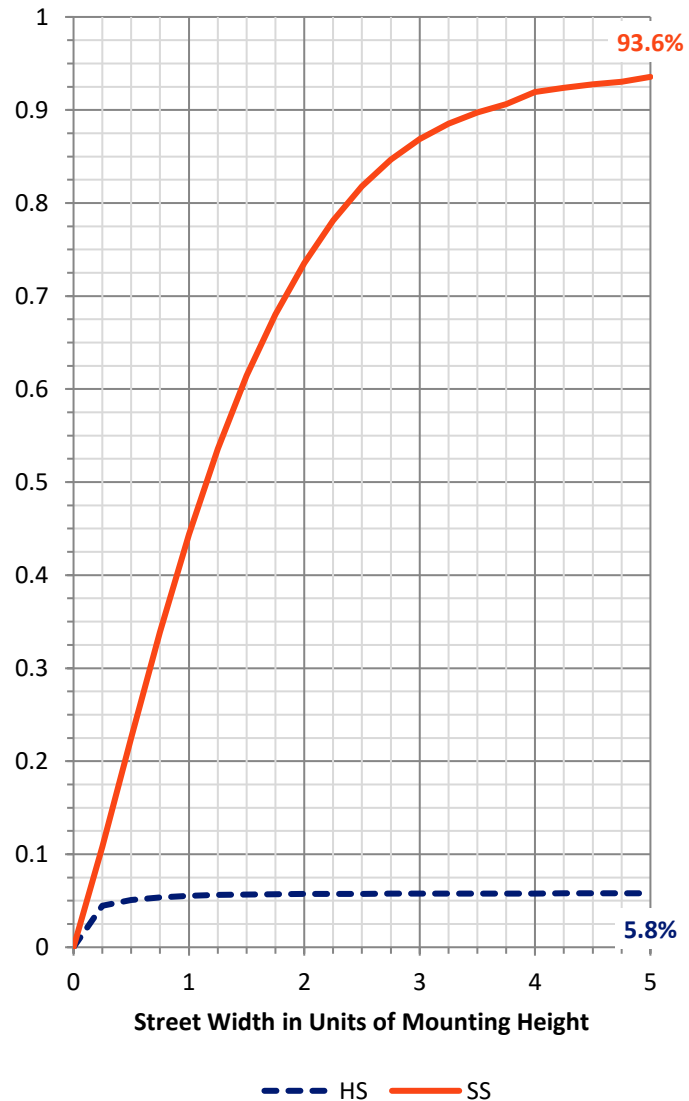
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	697.2	0.0	697.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	11219.8	0.0	11219.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	11917.0	0.0	11917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	1.2
10°-20°	355.0	3.0
20°-30°	598.0	5.0
30°-40°	978.9	8.2
40°-50°	1694.9	14.2
50°-60°	2669.6	22.4
60°-70°	3486.4	29.3
70°-80°	1795.7	15.1
80°-90°	194.2	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°	11917.0	100.0
0°-180°	11917.0	100.0

Coefficient of Utilization



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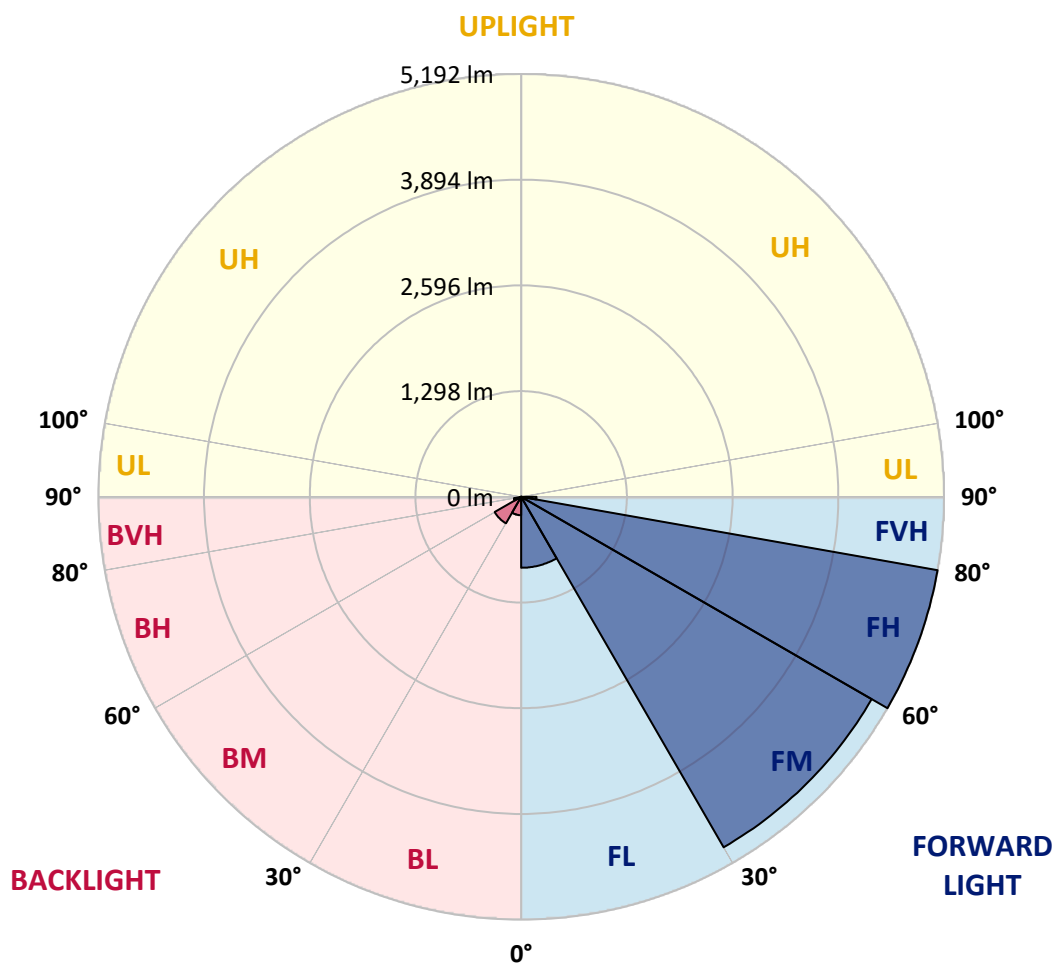
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.5	7.3			
FM	(30°-60°)	4968.6	41.7			
FH	(60°-80°)	5191.5	43.6			G3/7500
FVH	(80°-90°)	188.1	1.6			G2/225
BL	(0°-30°)	225.8	1.9	B1/500		
BM	(30°-60°)	374.7	3.1	B1/1000		
BH	(60°-80°)	90.5	0.8	B0/110		G0/110
BVH	(80°-90°)	6.1	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°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1955.0	1944.3	1937.9	1929.4	1918.8	1909.6	1906.0	1879.8	1854.9	1820.9	1781.9
5°	1991.1	1987.6	1976.2	1964.9	1952.1	1937.9	1930.1	1898.9	1863.5	1813.8	1745.7
7.5°	1994.7	1990.4	1976.2	1960.6	1942.9	1925.9	1912.4	1881.2	1848.6	1798.2	1715.2
10°	1989.0	1984.0	1973.4	1956.4	1934.4	1918.1	1904.6	1874.8	1847.1	1801.7	1709.5
12.5°	1982.6	1977.7	1972.7	1964.2	1945.0	1933.7	1922.3	1894.0	1869.1	1830.8	1730.1
15°	1989.0	1986.2	1991.8	1988.3	1977.7	1967.7	1956.4	1930.8	1908.1	1876.2	1767.7
17.5°	2016.0	2016.0	2033.7	2035.8	2025.9	2011.7	1995.4	1969.9	1950.7	1923.7	1812.4
20°	2079.1	2077.0	2099.7	2103.9	2079.8	2057.8	2033.7	2002.5	1987.6	1970.6	1856.4
22.5°	2187.6	2177.7	2191.2	2186.9	2139.4	2105.3	2075.5	2037.2	2029.4	2021.6	1905.3
25°	2328.8	2323.1	2332.3	2290.5	2206.8	2160.7	2125.2	2081.9	2081.9	2089.7	1960.6
27.5°	2533.8	2512.5	2481.3	2407.5	2282.0	2223.1	2184.8	2138.7	2150.7	2179.8	2033.7
30°	2743.8	2720.3	2648.7	2535.2	2373.5	2311.8	2267.1	2218.8	2247.2	2300.4	2131.6
32.5°	2950.9	2924.6	2823.2	2679.9	2504.7	2443.0	2399.7	2346.5	2394.0	2483.4	2274.9
35°	3151.6	3128.2	3011.2	2842.4	2679.2	2628.1	2588.4	2542.3	2603.3	2728.1	2477.0
37.5°	3377.2	3351.7	3209.1	3026.1	2891.3	2854.4	2825.3	2779.2	2885.6	3068.6	2758.7
40°	3654.6	3611.3	3419.1	3236.8	3136.7	3119.0	3099.1	3092.8	3258.0	3511.3	3133.9
42.5°	3972.3	3901.4	3639.0	3458.8	3406.3	3419.1	3414.1	3442.5	3724.1	4061.7	3590.7
45°	4290.1	4198.6	3883.7	3695.7	3702.8	3747.5	3775.1	3888.6	4307.9	4693.0	4082.3
47.5°	4559.7	4469.6	4118.5	3951.8	4036.9	4124.9	4200.0	4415.0	4908.0	5314.4	4464.6
50°	4790.2	4705.1	4367.4	4233.4	4424.9	4566.8	4688.8	5007.3	5553.5	5787.6	4732.8
52.5°	4978.9	4922.2	4625.7	4556.1	4868.2	5076.1	5254.8	5636.5	6125.2	6172.0	4941.3
55°	5162.6	5122.2	4903.0	4939.9	5388.9	5671.9	5898.2	6304.0	6617.5	6492.7	5141.3
57.5°	5374.0	5337.1	5219.4	5426.5	6073.4	6429.5	6676.4	6895.6	7050.9	6820.4	5330.0
60°	5589.7	5568.4	5571.2	5967.0	6859.4	7201.3	7337.5	7394.2	7476.5	7128.9	5340.7
62.5°	5795.4	5835.8	5973.4	6568.6	7612.0	7874.5	7943.3	7999.3	7902.8	7177.9	4934.2
65°	6143.7	6209.6	6538.1	7373.7	8439.8	8720.7	8791.6	8599.4	7970.2	6545.1	4013.5
67.5°	6313.9	6434.5	7020.4	8124.2	9242.8	9554.9	9528.7	8638.4	7152.3	4991.0	2575.6
69°	6278.4	6406.8	7131.8	8354.0	9509.5	9792.5	9625.8	8161.0	6093.3	3615.5	1581.1
70°	6138.0	6267.8	7074.3	8345.5	9543.6	9767.7	9445.7	7571.6	5152.0	2643.7	988.8
72.5°	5125.7	5237.8	6280.6	7543.2	8791.6	8609.3	7902.1	5245.6	2510.4	720.0	222.7
75°	3155.2	3217.6	4506.5	5682.6	6640.2	6172.0	5264.8	2609.7	748.4	203.6	123.4
77.5°	1667.0	1695.3	2467.1	3349.5	4209.3	3482.9	2698.4	1017.9	344.7	127.7	89.4
80°	985.3	1006.6	1328.6	1531.5	1821.6	1521.5	1078.9	624.9	246.9	80.2	79.4
82.5°	563.9	577.4	963.3	851.2	717.9	612.9	537.0	592.3	148.3	53.9	82.3
85°	207.1	210.0	541.9	647.6	427.0	253.9	266.7	490.9	39.7	34.0	64.6
87.5°	96.5	94.3	278.8	396.5	249.7	161.0	207.8	107.8	15.6	22.0	17.7
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°	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1759.2	1732.9	1685.4	1636.5	1586.8	1548.5	1510.9	1481.1	1471.2	1452.7	1454.2
5°	1705.3	1657.0	1557.7	1457.0	1352.0	1265.5	1183.9	1117.9	1086.0	1053.4	1053.4
7.5°	1658.5	1588.2	1432.9	1269.0	1099.5	956.9	828.5	732.0	678.8	636.3	635.6
10°	1640.7	1545.7	1328.6	1093.8	857.6	663.2	510.7	412.8	362.5	329.8	328.4
12.5°	1648.5	1530.8	1248.5	932.1	635.6	426.3	295.8	232.7	211.4	201.5	201.5
15°	1671.2	1526.5	1168.3	773.9	449.0	266.7	196.5	179.5	178.0	178.0	178.0
17.5°	1698.9	1527.9	1086.0	620.0	305.7	190.8	169.5	167.4	168.8	168.8	168.8
20°	1727.3	1528.6	997.3	477.4	215.6	166.0	159.6	158.9	160.3	160.3	161.0
22.5°	1762.0	1532.2	908.7	356.8	178.0	156.8	151.8	151.8	152.5	152.5	151.8
25°	1801.7	1539.3	816.5	264.6	162.4	150.4	146.1	145.4	146.1	145.4	144.7
27.5°	1851.4	1549.2	713.6	207.1	155.3	144.0	140.5	140.5	139.7	139.0	138.3
30°	1913.8	1560.6	598.0	175.9	148.3	138.3	134.8	134.1	133.4	131.9	131.9
32.5°	2008.9	1585.4	483.8	159.6	140.5	130.5	127.7	127.7	126.3	124.8	124.1
35°	2155.0	1634.3	381.6	149.7	131.9	122.0	118.5	118.5	117.0	116.3	115.6
37.5°	2357.2	1708.8	296.5	140.5	123.4	112.8	109.2	108.5	107.1	105.7	105.0
40°	2626.0	1801.0	233.4	131.9	114.9	103.6	100.7	99.3	96.5	94.3	94.3
42.5°	2963.7	1906.0	189.4	122.7	105.0	95.1	92.9	90.8	85.8	83.7	83.0
45°	3316.9	2000.4	160.3	112.1	95.1	86.5	85.1	81.6	75.2	73.1	73.1
47.5°	3571.6	2022.3	141.2	102.1	85.8	77.3	76.6	70.2	64.6	63.1	62.4
50°	3730.5	1979.1	125.6	92.2	77.3	68.8	66.7	58.9	55.3	53.9	53.2
52.5°	3837.6	1901.8	112.8	83.7	69.5	61.0	56.0	50.4	47.5	46.1	46.1
55°	3923.4	1792.5	100.0	75.9	63.1	54.6	47.5	43.3	40.4	39.0	39.0
57.5°	3947.5	1644.3	87.2	69.5	56.7	48.2	40.4	37.6	34.0	33.3	33.3
60°	3772.3	1376.8	77.3	61.7	51.1	41.9	35.5	31.9	28.4	27.7	27.0
62.5°	3310.5	1065.4	68.1	54.6	44.7	36.2	30.5	26.2	23.4	23.4	23.4
65°	2525.3	714.3	59.6	47.5	39.0	30.5	26.2	21.3	19.9	19.9	20.6
67.5°	1511.6	388.7	51.1	40.4	33.3	25.5	22.0	18.4	17.7	18.4	18.4
69°	886.0	228.4	46.1	36.2	29.1	22.7	19.2	16.3	17.7	18.4	18.4
70°	546.9	153.9	42.6	32.6	26.2	20.6	17.7	15.6	17.0	17.7	17.7
72.5°	152.5	79.4	34.0	25.5	21.3	17.0	14.2	14.2	16.3	17.0	17.0
75°	99.3	58.9	26.2	19.2	16.3	13.5	12.1	13.5	15.6	16.3	16.3
77.5°	82.3	48.2	21.3	15.6	13.5	12.8	11.3	12.1	14.2	14.9	14.9
80°	75.2	34.0	17.0	14.2	12.1	11.3	10.6	9.9	12.8	13.5	13.5
82.5°	71.6	27.0	14.9	12.8	11.3	9.9	9.2	9.9	11.3	12.1	12.8
85°	44.7	17.7	13.5	12.1	9.9	9.2	9.2	9.2	10.6	11.3	11.3
87.5°	16.3	14.2	12.1	9.9	8.5	8.5	8.5	8.5	9.2	10.6	10.6
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)