

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: P192931

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192931
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-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 9398.5 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

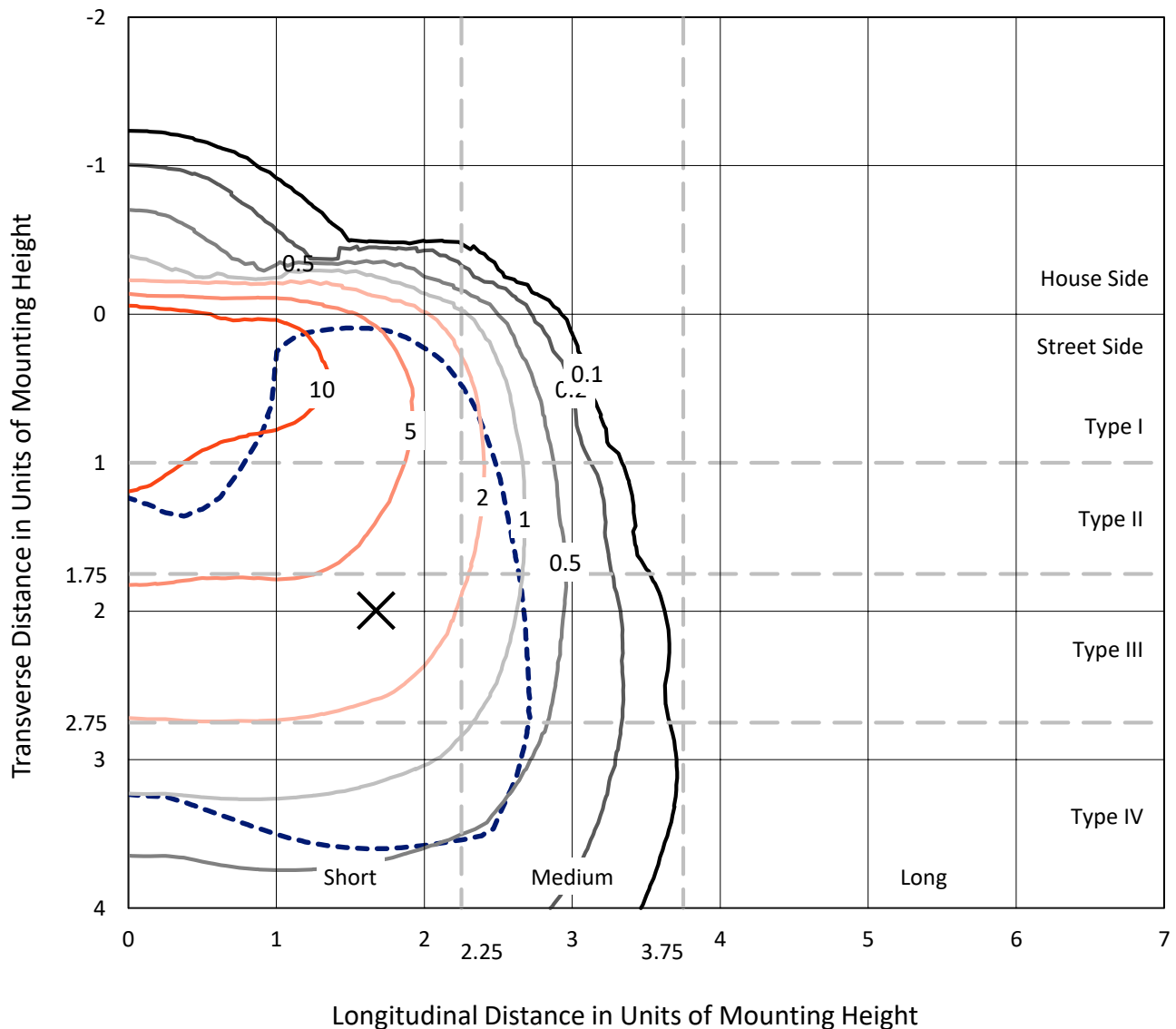


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

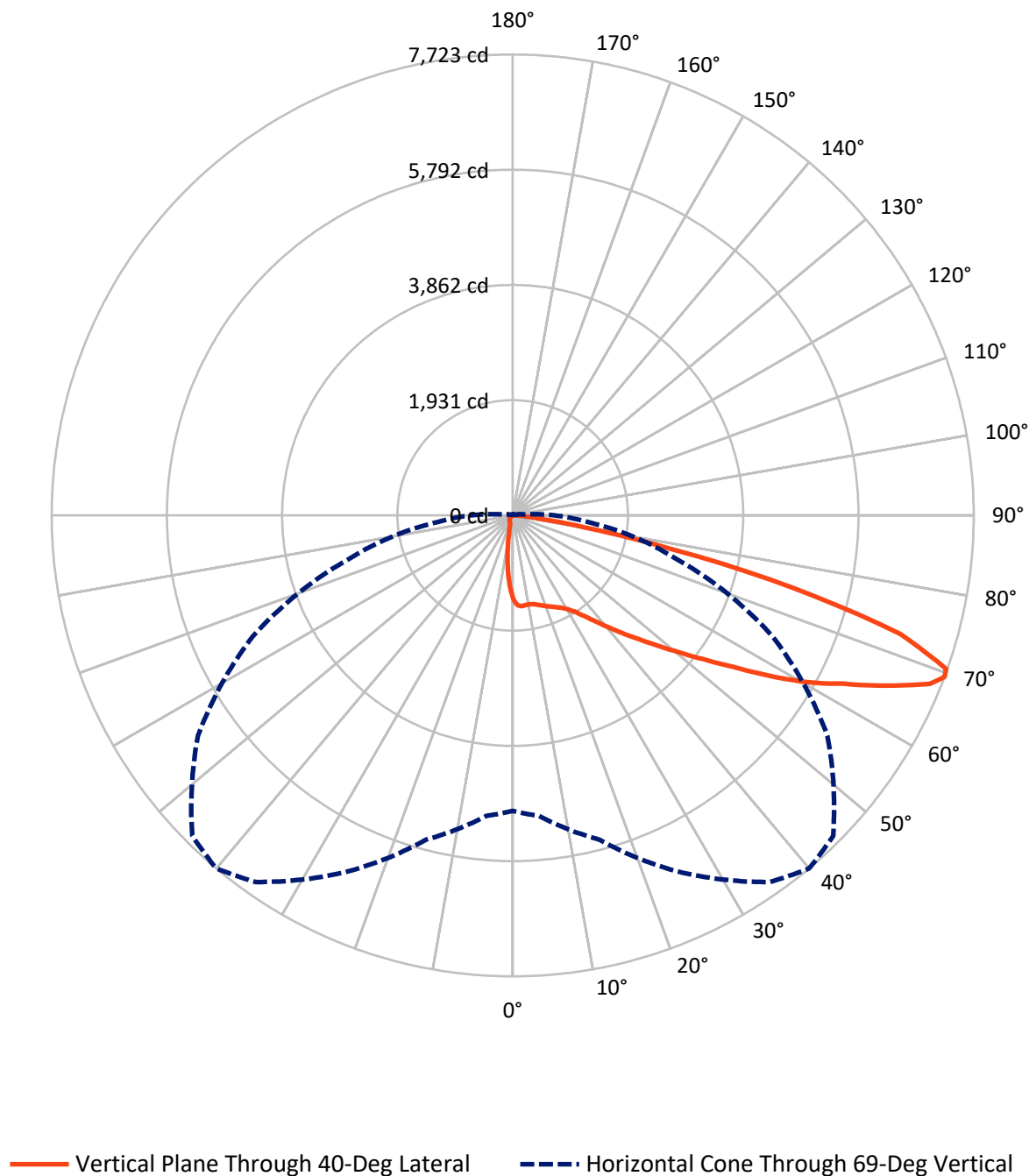


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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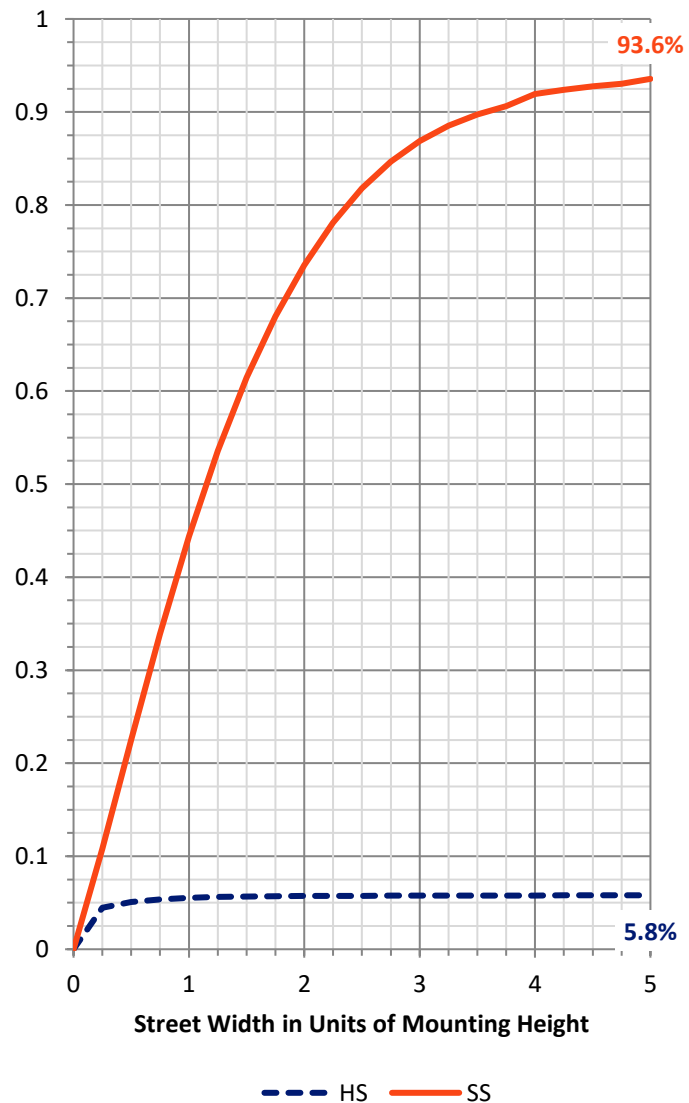
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.9	0.0	549.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	8848.6	0.0	8848.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	9398.5	0.0	9398.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.2
10°-20°	280.0	3.0
20°-30°	471.6	5.0
30°-40°	772.0	8.2
40°-50°	1336.7	14.2
50°-60°	2105.4	22.4
60°-70°	2749.6	29.3
70°-80°	1416.2	15.1
80°-90°	153.2	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°	9398.5	100.0
0°-180°	9398.5	100.0

Coefficient of Utilization



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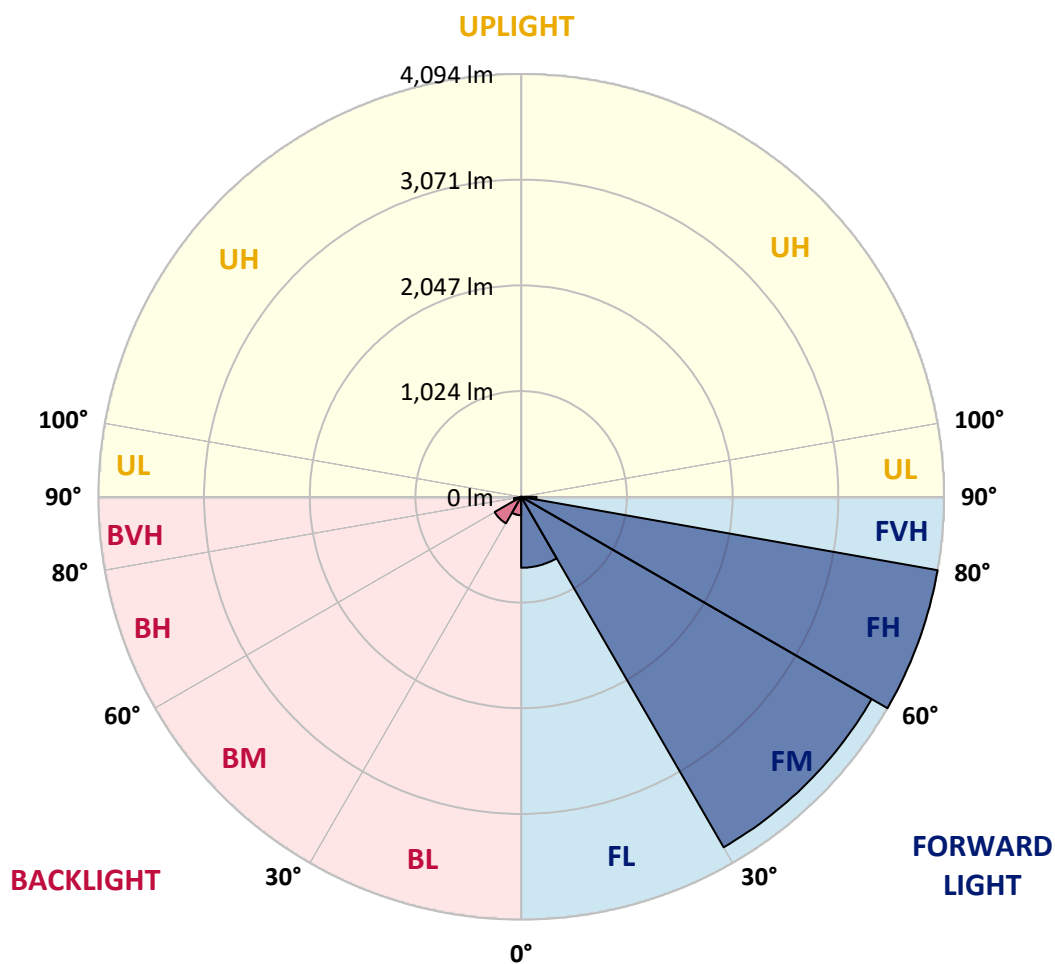
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.3	7.3			
FM	(30°-60°)	3918.6	41.7			
FH	(60°-80°)	4094.4	43.6			G2/5000
FVH	(80°-90°)	148.4	1.6			G2/225
BL	(0°-30°)	178.1	1.9	B1/500		
BM	(30°-60°)	295.5	3.1	B1/1000		
BH	(60°-80°)	71.4	0.8	B0/110		G0/110
BVH	(80°-90°)	4.8	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1541.7	1533.5	1528.4	1521.7	1513.2	1506.0	1503.2	1482.5	1462.9	1436.1	1405.3
5°	1570.4	1567.6	1558.6	1549.7	1539.6	1528.4	1522.2	1497.6	1469.6	1430.4	1376.7
7.5°	1573.2	1569.7	1558.6	1546.2	1532.3	1518.8	1508.3	1483.6	1457.8	1418.1	1352.7
10°	1568.6	1564.7	1556.4	1543.0	1525.6	1512.7	1502.1	1478.6	1456.8	1420.9	1348.3
12.5°	1563.6	1559.6	1555.8	1549.1	1534.0	1525.0	1516.1	1493.7	1474.1	1443.9	1364.4
15°	1568.6	1566.4	1570.9	1568.1	1559.6	1551.9	1543.0	1522.7	1504.8	1479.7	1394.1
17.5°	1589.9	1589.9	1603.9	1605.6	1597.7	1586.6	1573.7	1553.5	1538.5	1517.2	1429.3
20°	1639.7	1638.1	1656.0	1659.3	1640.3	1622.9	1603.9	1579.3	1567.6	1554.1	1464.1
22.5°	1725.3	1717.4	1728.1	1724.7	1687.3	1660.4	1636.9	1606.6	1600.5	1594.4	1502.7
25°	1836.6	1832.2	1839.4	1806.4	1740.4	1704.0	1676.0	1641.9	1641.9	1648.0	1546.2
27.5°	1998.4	1981.5	1957.0	1898.7	1799.7	1753.3	1723.0	1686.8	1696.2	1719.2	1603.9
30°	2163.9	2145.5	2088.9	1999.5	1871.8	1823.2	1787.9	1749.9	1772.3	1814.2	1681.1
32.5°	2327.2	2306.6	2226.6	2113.5	1975.4	1926.7	1892.6	1850.7	1888.1	1958.6	1794.1
35°	2485.5	2467.1	2374.8	2241.7	2113.0	2072.7	2041.4	2005.0	2053.1	2151.6	1953.5
37.5°	2663.5	2643.3	2530.9	2386.5	2280.2	2251.2	2228.3	2191.8	2275.8	2420.1	2175.7
40°	2882.3	2848.1	2696.5	2552.8	2473.8	2459.9	2444.1	2439.1	2569.4	2769.1	2471.6
42.5°	3132.8	3076.8	2869.9	2727.7	2686.3	2696.5	2692.5	2715.0	2937.0	3203.4	2831.9
45°	3383.4	3311.3	3062.9	2914.7	2920.3	2955.5	2977.4	3066.8	3397.4	3701.2	3219.6
47.5°	3596.0	3525.0	3248.1	3116.6	3183.7	3253.0	3312.4	3481.9	3870.7	4191.3	3521.1
50°	3777.8	3710.8	3444.4	3338.8	3489.7	3601.6	3697.9	3949.0	4379.7	4564.5	3732.6
52.5°	3926.7	3881.9	3648.0	3593.2	3839.4	4003.4	4144.3	4445.3	4830.7	4867.6	3897.1
55°	4071.5	4039.7	3866.8	3895.8	4250.0	4473.3	4651.7	4971.8	5219.0	5120.6	4054.8
57.5°	4238.2	4209.2	4116.4	4279.6	4789.9	5070.7	5265.4	5438.3	5560.8	5379.0	4203.6
60°	4408.4	4391.5	4393.8	4706.1	5409.8	5679.4	5786.8	5831.5	5896.4	5622.4	4212.0
62.5°	4570.6	4602.4	4711.0	5180.4	6003.2	6210.3	6264.6	6308.7	6232.7	5660.9	3891.4
65°	4845.2	4897.3	5156.3	5815.4	6656.2	6877.7	6933.6	6782.0	6285.8	5162.0	3165.2
67.5°	4979.5	5074.6	5536.7	6407.2	7289.4	7535.6	7514.9	6812.8	5640.7	3936.2	2031.3
69°	4951.5	5052.8	5624.5	6588.5	7499.8	7723.0	7591.6	6436.3	4805.6	2851.4	1246.9
70°	4840.8	4943.2	5579.3	6581.8	7526.7	7703.5	7449.4	5971.4	4063.2	2085.0	779.9
72.5°	4042.5	4130.9	4953.3	5949.0	6933.6	6789.8	6232.1	4137.0	1979.9	567.8	175.7
75°	2488.4	2537.5	3554.1	4481.6	5236.9	4867.6	4152.2	2058.1	590.2	160.6	97.4
77.5°	1314.7	1337.0	1945.7	2641.7	3319.8	2746.8	2128.1	802.8	271.8	100.7	70.5
80°	777.1	793.9	1047.8	1207.9	1436.6	1200.0	850.9	492.9	194.7	63.3	62.6
82.5°	444.8	455.4	759.7	671.3	566.2	483.4	423.5	467.1	116.9	42.5	64.9
85°	163.4	165.6	427.4	510.8	336.7	200.3	210.4	387.1	31.3	26.9	51.0
87.5°	76.1	74.4	219.8	312.7	196.8	127.0	163.9	85.0	12.3	17.4	13.9
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°	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1387.4	1366.8	1329.2	1290.6	1251.4	1221.3	1191.6	1168.1	1160.3	1145.7	1146.9
5°	1344.9	1306.8	1228.5	1149.1	1066.3	998.1	933.7	881.7	856.5	830.8	830.8
7.5°	1308.0	1252.5	1130.1	1000.9	867.1	754.7	653.4	577.3	535.4	501.8	501.3
10°	1293.9	1219.0	1047.8	862.6	676.4	523.1	402.8	325.6	285.8	260.1	259.1
12.5°	1300.0	1207.4	984.7	735.1	501.3	336.2	233.3	183.4	166.7	158.9	158.9
15°	1318.0	1203.9	921.4	610.3	354.1	210.4	154.9	141.5	140.4	140.4	140.4
17.5°	1339.8	1205.0	856.5	488.9	241.1	150.4	133.8	131.9	133.2	133.2	133.2
20°	1362.3	1205.5	786.5	376.5	170.1	130.9	125.8	125.3	126.4	126.4	127.0
22.5°	1389.7	1208.4	716.6	281.4	140.4	123.7	119.7	119.7	120.3	120.3	119.7
25°	1420.9	1214.0	643.9	208.6	128.2	118.5	115.3	114.7	115.3	114.7	114.1
27.5°	1460.1	1221.8	562.8	163.4	122.5	113.5	110.8	110.8	110.3	109.7	109.0
30°	1509.3	1230.8	471.6	138.8	116.9	109.0	106.3	105.8	105.2	104.1	104.1
32.5°	1584.4	1250.4	381.6	125.8	110.8	102.9	100.7	100.7	99.5	98.5	97.9
35°	1699.5	1288.9	301.0	118.0	104.1	96.2	93.4	93.4	92.4	91.8	91.2
37.5°	1859.0	1347.7	233.9	110.8	97.4	88.9	86.2	85.5	84.4	83.4	82.8
40°	2071.0	1420.4	184.1	104.1	90.5	81.7	79.4	78.3	76.1	74.4	74.4
42.5°	2337.3	1503.2	149.3	96.8	82.8	75.0	73.3	71.6	67.7	66.0	65.4
45°	2615.8	1577.6	126.4	88.4	75.0	68.3	67.0	64.4	59.3	57.6	57.6
47.5°	2816.7	1594.9	111.3	80.6	67.7	60.9	60.4	55.4	51.0	49.8	49.2
50°	2942.1	1560.9	99.0	72.7	60.9	54.3	52.6	46.4	43.6	42.5	41.9
52.5°	3026.6	1499.8	88.9	66.0	54.8	48.1	44.1	39.8	37.4	36.4	36.4
55°	3094.2	1413.7	78.8	59.9	49.8	43.0	37.4	34.1	31.9	30.8	30.8
57.5°	3113.3	1296.8	68.9	54.8	44.8	38.0	31.9	29.6	26.9	26.3	26.3
60°	2975.0	1085.8	60.9	48.6	40.3	33.0	28.0	25.1	22.4	21.9	21.3
62.5°	2610.9	840.3	53.7	43.0	35.3	28.5	24.0	20.6	18.5	18.5	18.5
65°	1991.6	563.3	47.0	37.4	30.8	24.0	20.6	16.8	15.7	15.7	16.2
67.5°	1192.1	306.6	40.3	31.9	26.3	20.1	17.4	14.5	13.9	14.5	14.5
69°	698.7	180.2	36.4	28.5	23.0	17.9	15.1	12.9	13.9	14.5	14.5
70°	431.3	121.4	33.6	25.7	20.6	16.2	13.9	12.3	13.4	13.9	13.9
72.5°	120.3	62.6	26.9	20.1	16.8	13.4	11.2	11.2	12.9	13.4	13.4
75°	78.3	46.4	20.6	15.1	12.9	10.6	9.5	10.6	12.3	12.9	12.9
77.5°	64.9	38.0	16.8	12.3	10.6	10.1	9.0	9.5	11.2	11.8	11.8
80°	59.3	26.9	13.4	11.2	9.5	9.0	8.4	7.8	10.1	10.6	10.6
82.5°	56.5	21.3	11.8	10.1	9.0	7.8	7.3	7.8	9.0	9.5	10.1
85°	35.3	13.9	10.6	9.5	7.8	7.3	7.3	7.3	8.4	9.0	9.0
87.5°	12.9	11.2	9.5	7.8	6.7	6.7	6.7	6.7	7.3	8.4	8.4
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)