

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: P192971

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11003.5 lumens
Efficiency: N/A
Efficacy: 114.6 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): 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

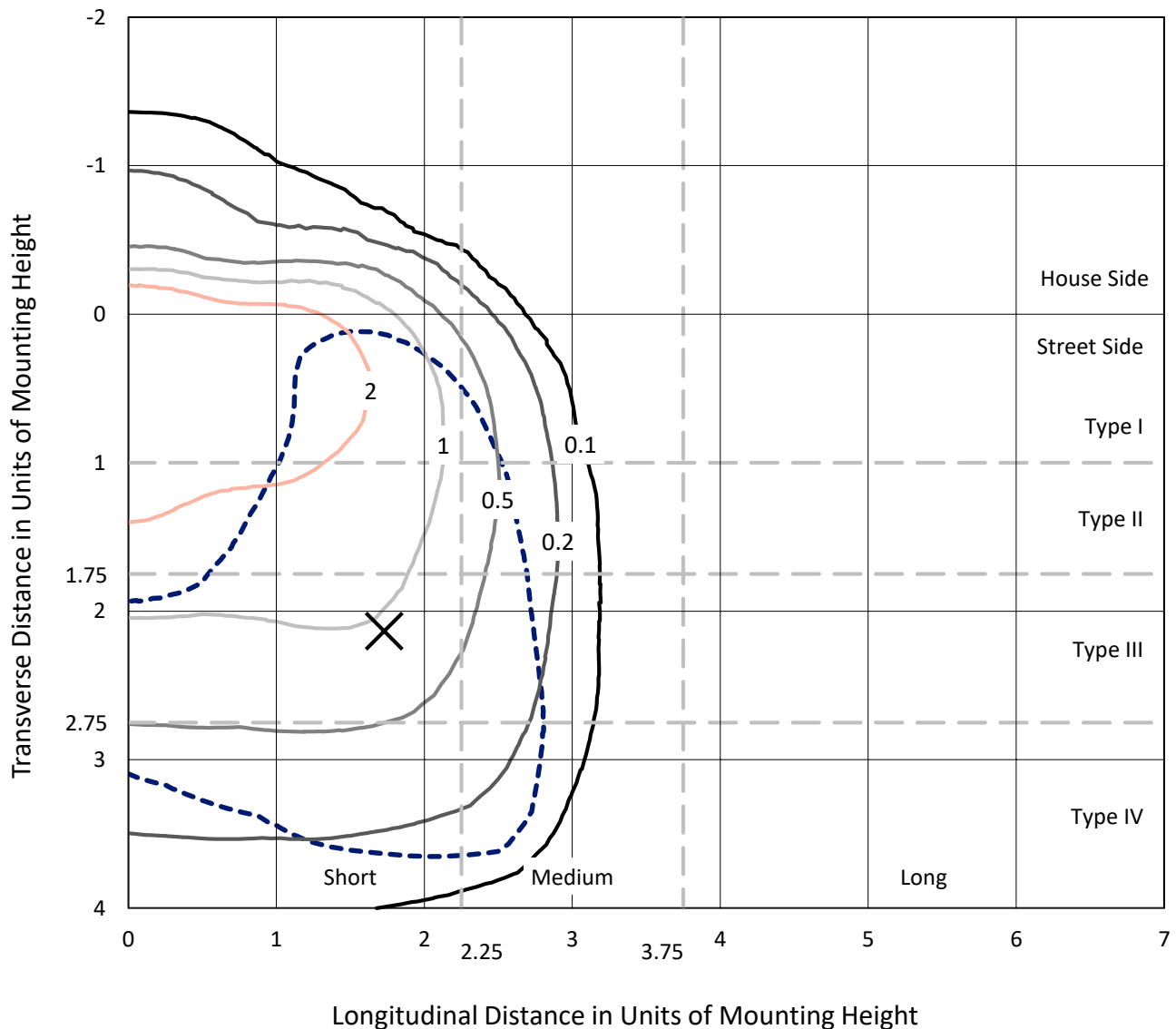


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

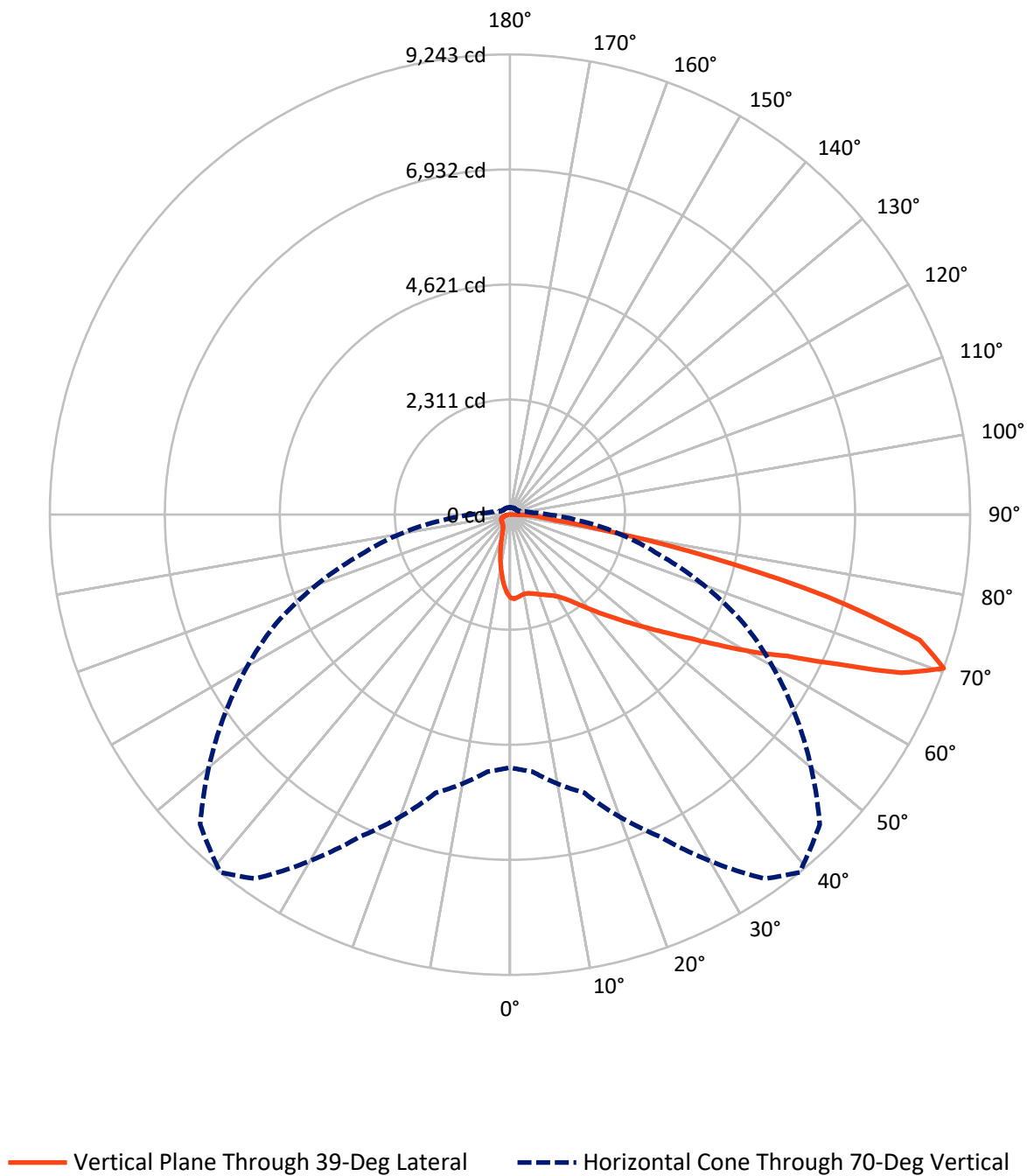


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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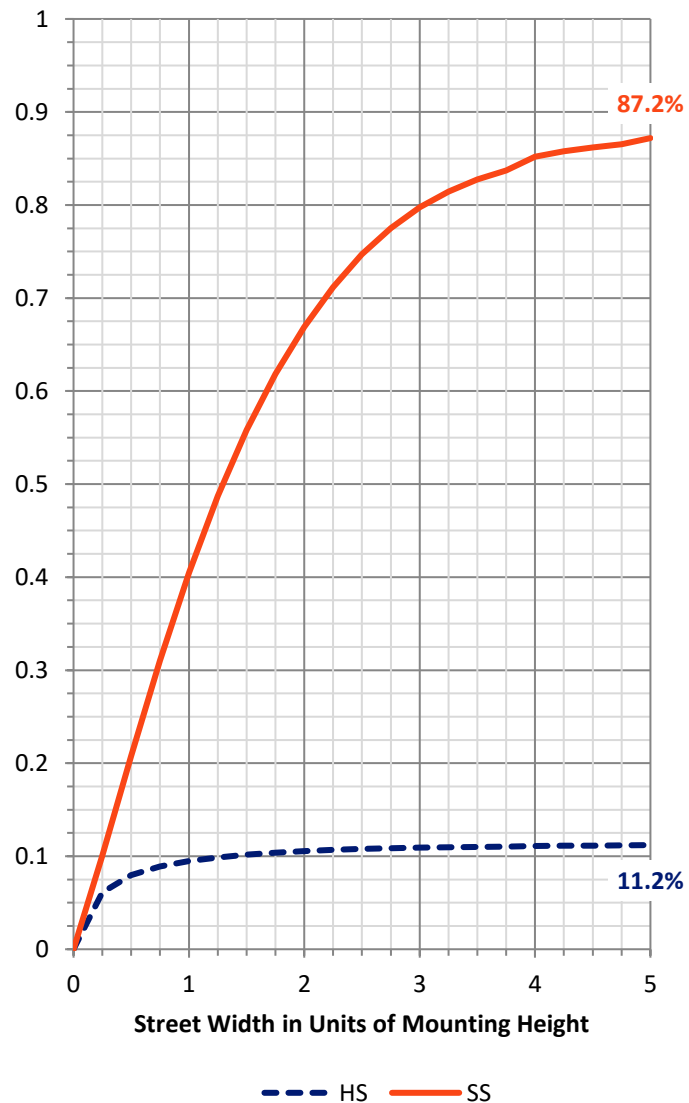
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1251.5	0.0	1251.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	9752.0	0.0	9752.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	11003.5	0.0	11003.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	1.3
10°-20°	358.3	3.3
20°-30°	558.0	5.1
30°-40°	869.2	7.9
40°-50°	1459.2	13.3
50°-60°	2318.1	21.1
60°-70°	3092.1	28.1
70°-80°	1867.2	17.0
80°-90°	337.9	3.1
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°	11003.5	100.0
0°-180°	11003.5	100.0

Coefficient of Utilization



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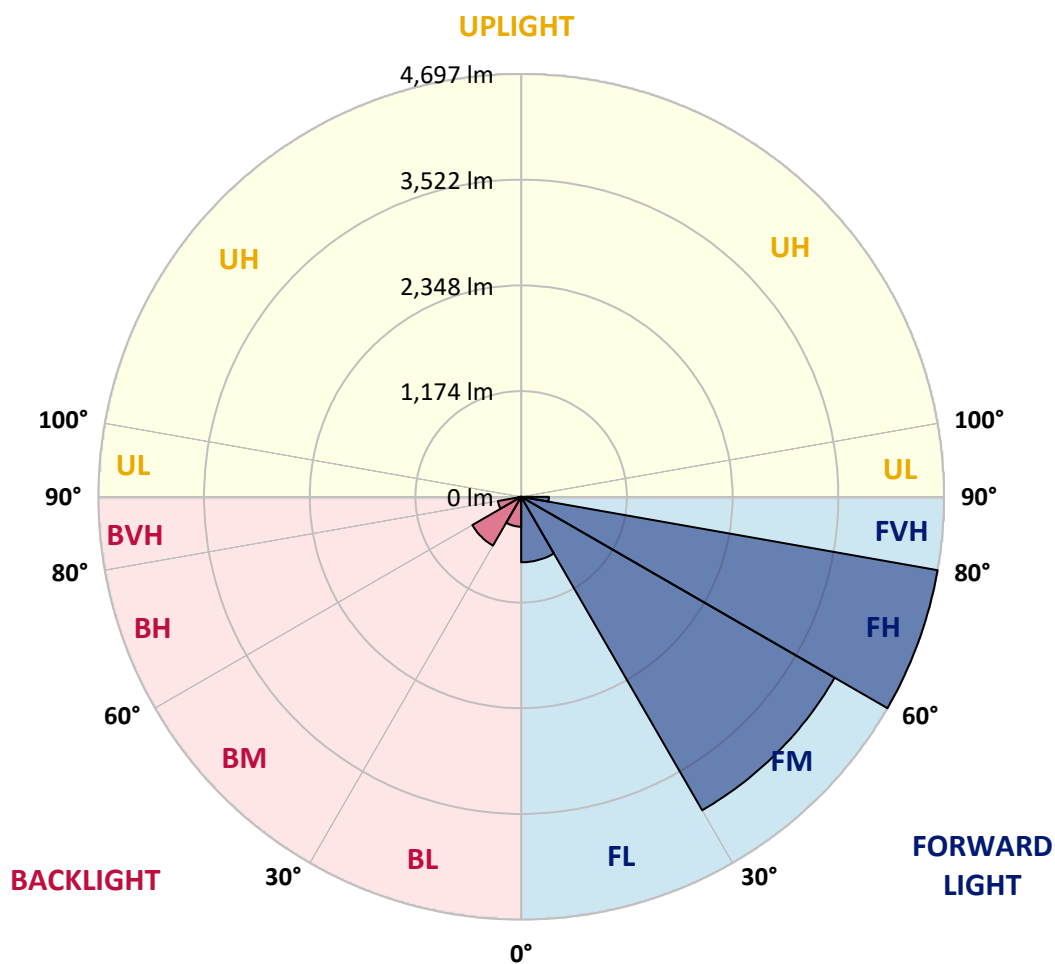
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	727.7	6.6			
FM	(30°-60°)	4020.2	36.5			
FH	(60°-80°)	4696.6	42.7			G2/5000
FVH	(80°-90°)	307.5	2.8			G3/500
BL	(0°-30°)	332.0	3.0	B1/500		
BM	(30°-60°)	626.3	5.7	B1/1000		
BH	(60°-80°)	262.7	2.4	B1/500		G1/500
BVH	(80°-90°)	30.5	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5
2.5°	1703.0	1702.4	1697.9	1694.6	1691.8	1690.7	1692.9	1684.4	1677.2	1668.3	1658.8
5°	1690.1	1689.4	1682.3	1675.5	1668.8	1666.5	1665.9	1650.9	1641.9	1628.5	1610.6
7.5°	1676.1	1673.3	1663.8	1652.5	1640.8	1635.3	1629.7	1610.1	1600.0	1586.6	1565.9
10°	1661.5	1658.2	1649.3	1638.1	1626.9	1618.4	1609.0	1589.9	1579.4	1569.3	1545.2
12.5°	1646.4	1643.7	1641.4	1636.3	1628.5	1621.3	1614.0	1597.8	1586.6	1574.9	1546.9
15°	1644.3	1643.0	1648.1	1651.5	1647.0	1642.5	1634.7	1620.8	1609.0	1597.3	1560.9
17.5°	1662.2	1661.5	1674.4	1683.3	1681.2	1673.3	1662.7	1647.0	1637.5	1627.4	1582.1
20°	1701.2	1704.1	1719.7	1731.4	1720.3	1709.2	1691.8	1669.9	1664.9	1660.4	1603.9
22.5°	1775.1	1777.8	1789.1	1793.6	1764.5	1748.2	1724.2	1696.2	1692.9	1696.2	1630.2
25°	1890.4	1887.6	1886.0	1869.1	1816.0	1790.8	1760.0	1730.8	1732.7	1747.7	1667.2
27.5°	2043.0	2028.0	2004.5	1954.1	1869.7	1841.7	1804.2	1777.3	1788.0	1817.1	1722.6
30°	2201.5	2184.6	2130.3	2048.2	1940.1	1909.5	1867.5	1837.2	1865.2	1911.1	1796.3
32.5°	2348.0	2345.8	2266.4	2160.6	2037.4	2010.7	1968.7	1934.6	1979.9	2049.8	1907.1
35°	2507.9	2513.1	2417.9	2290.9	2169.1	2141.1	2110.8	2085.1	2145.6	2241.7	2067.7
37.5°	2679.1	2689.2	2576.8	2433.5	2318.9	2307.1	2289.2	2278.0	2371.5	2504.7	2292.0
40°	2908.1	2897.9	2741.9	2594.7	2502.9	2502.4	2496.8	2510.2	2665.7	2848.2	2580.1
42.5°	3153.0	3123.4	2916.9	2767.5	2704.9	2724.0	2735.1	2789.9	3019.9	3265.4	2931.5
45°	3417.1	3350.6	3098.8	2950.5	2929.2	2969.5	3007.6	3126.8	3436.6	3740.5	3316.3
47.5°	3628.0	3563.7	3286.7	3142.4	3188.8	3249.8	3323.1	3511.6	3903.3	4231.1	3696.2
50°	3794.1	3752.2	3476.4	3366.2	3474.7	3568.7	3688.4	3947.4	4388.8	4708.8	4048.2
52.5°	3955.3	3923.9	3667.8	3595.5	3810.4	3940.2	4103.0	4415.1	4886.7	5178.8	4344.0
55°	4100.7	4078.3	3873.6	3881.4	4205.4	4374.3	4579.0	4947.7	5429.4	5597.8	4594.7
57.5°	4264.6	4236.1	4108.5	4240.1	4712.8	4932.1	5198.3	5546.3	5938.5	5970.4	4785.4
60°	4429.7	4405.2	4369.3	4654.0	5357.2	5587.7	5840.0	6126.5	6454.8	6259.6	4774.3
62.5°	4572.9	4575.7	4638.9	5088.8	5988.3	6255.2	6562.8	6845.9	6922.0	6309.9	4421.2
65°	4815.7	4859.9	5048.5	5704.1	6876.7	7233.6	7611.2	7565.8	7051.3	5839.5	3664.3
67.5°	5104.4	5182.1	5564.2	6524.2	7999.5	8473.4	8619.4	7728.8	6533.7	4746.9	2612.1
70°	5075.3	5182.1	5786.9	7135.7	8924.9	9242.6	8799.5	6994.8	5188.2	3101.0	1387.4
72.5°	4506.8	4659.6	5333.2	6855.5	8633.3	8605.4	7639.2	5214.6	3082.5	1245.3	542.2
75°	3435.0	3589.3	4169.0	5416.0	6823.6	6588.6	5420.5	2880.6	1169.8	494.5	341.9
77.5°	1976.0	2095.7	2543.2	3321.4	4329.0	4087.8	3017.0	1281.2	569.6	344.6	266.8
80°	1103.2	1169.8	1441.6	1685.0	2121.4	1944.6	1349.9	796.1	425.1	250.1	205.9
82.5°	872.2	931.4	1165.9	1063.0	968.9	894.0	775.4	708.8	339.6	157.8	123.0
85°	762.0	818.5	986.8	836.9	661.8	607.1	630.0	697.6	264.1	95.0	105.2
87.5°	706.1	781.5	879.4	645.0	515.2	456.4	581.3	764.9	85.0	59.3	42.5
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°	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5
2.5°	1650.4	1641.4	1626.9	1614.0	1593.9	1583.2	1571.4	1563.1	1556.4	1550.8	1559.7
5°	1599.4	1582.6	1551.9	1518.9	1479.7	1449.0	1423.2	1399.2	1382.3	1371.2	1379.1
7.5°	1551.4	1523.9	1475.8	1416.0	1348.8	1291.8	1244.8	1203.4	1174.9	1156.4	1163.6
10°	1523.9	1489.8	1415.4	1321.4	1222.4	1133.4	1059.6	995.8	951.6	926.4	930.4
12.5°	1517.2	1473.1	1370.1	1240.8	1105.4	981.8	877.8	789.4	727.2	694.8	696.0
15°	1522.2	1465.7	1327.6	1163.6	992.4	836.4	706.6	599.2	526.9	490.0	489.5
17.5°	1530.6	1460.1	1282.8	1080.2	877.8	696.5	551.6	446.5	382.6	353.0	350.7
20°	1539.6	1451.2	1232.5	990.2	758.6	566.7	431.9	349.6	309.4	293.2	292.0
22.5°	1552.5	1443.4	1180.4	895.2	641.7	461.5	355.2	299.9	278.6	270.2	269.1
25°	1573.2	1439.5	1125.1	796.1	536.5	386.0	309.4	275.3	263.0	257.3	256.8
27.5°	1607.9	1445.1	1073.0	700.0	450.9	335.1	283.6	263.0	254.0	249.0	248.3
30°	1652.5	1462.4	1018.2	608.7	384.4	300.5	268.0	254.6	247.3	242.2	242.2
32.5°	1727.0	1491.5	960.6	529.8	336.7	276.3	256.2	247.3	241.1	237.2	236.6
35°	1836.6	1546.3	906.9	464.4	302.6	259.1	246.2	239.5	235.0	232.7	232.7
37.5°	1996.0	1633.0	859.4	417.4	282.0	247.3	236.6	231.6	228.8	228.8	228.8
40°	2210.4	1752.7	820.7	386.0	270.2	238.8	229.3	225.4	223.8	224.3	224.3
42.5°	2474.9	1908.2	795.0	364.2	264.6	233.9	224.3	221.0	219.3	218.7	219.3
45°	2776.5	2085.1	792.1	348.0	259.1	230.5	221.0	217.7	214.2	212.1	212.1
47.5°	3069.6	2264.6	815.1	342.4	252.8	226.6	218.2	214.8	209.8	204.8	204.8
50°	3328.7	2417.4	845.8	344.6	250.6	221.0	213.7	212.1	204.2	198.7	198.1
52.5°	3534.5	2534.9	871.1	351.4	252.8	217.1	208.1	208.6	200.3	194.2	193.6
55°	3699.6	2612.1	864.4	358.1	257.9	214.8	203.1	204.2	197.4	191.3	191.3
57.5°	3771.7	2583.6	790.0	352.5	261.7	215.3	199.2	203.7	198.1	192.4	192.4
60°	3616.8	2330.1	650.6	327.9	256.8	213.7	197.4	205.9	205.3	199.7	199.2
62.5°	3148.0	1876.4	504.7	291.5	239.5	205.3	193.1	205.3	211.4	209.8	209.2
65°	2426.3	1336.5	385.4	252.3	215.9	191.3	181.3	192.4	200.8	203.1	202.5
67.5°	1574.9	819.0	297.0	215.3	189.7	175.2	166.2	171.2	172.8	172.8	171.7
70°	774.3	440.9	236.6	181.3	162.8	157.8	152.8	149.9	147.2	144.9	144.9
72.5°	382.1	288.1	194.7	153.3	140.4	138.2	137.0	133.8	131.4	128.7	127.5
75°	282.6	234.4	165.6	129.3	120.8	118.6	120.8	118.0	117.5	115.3	114.1
77.5°	232.1	199.7	142.7	110.8	103.5	99.5	102.9	103.5	104.1	100.7	99.5
80°	188.6	169.0	119.2	91.8	85.0	82.3	84.4	88.9	90.0	85.0	82.8
82.5°	135.9	138.2	96.2	71.6	66.0	63.8	68.3	73.9	75.0	67.7	66.0
85°	114.1	115.3	73.9	51.0	45.4	41.9	49.2	54.8	58.8	51.5	49.8
87.5°	47.5	67.7	42.5	28.5	25.1	21.9	26.3	29.1	35.3	32.4	31.9
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)