

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: P194590

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194590
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-02-LED-E1-SL4-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA 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: 11572 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 113
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



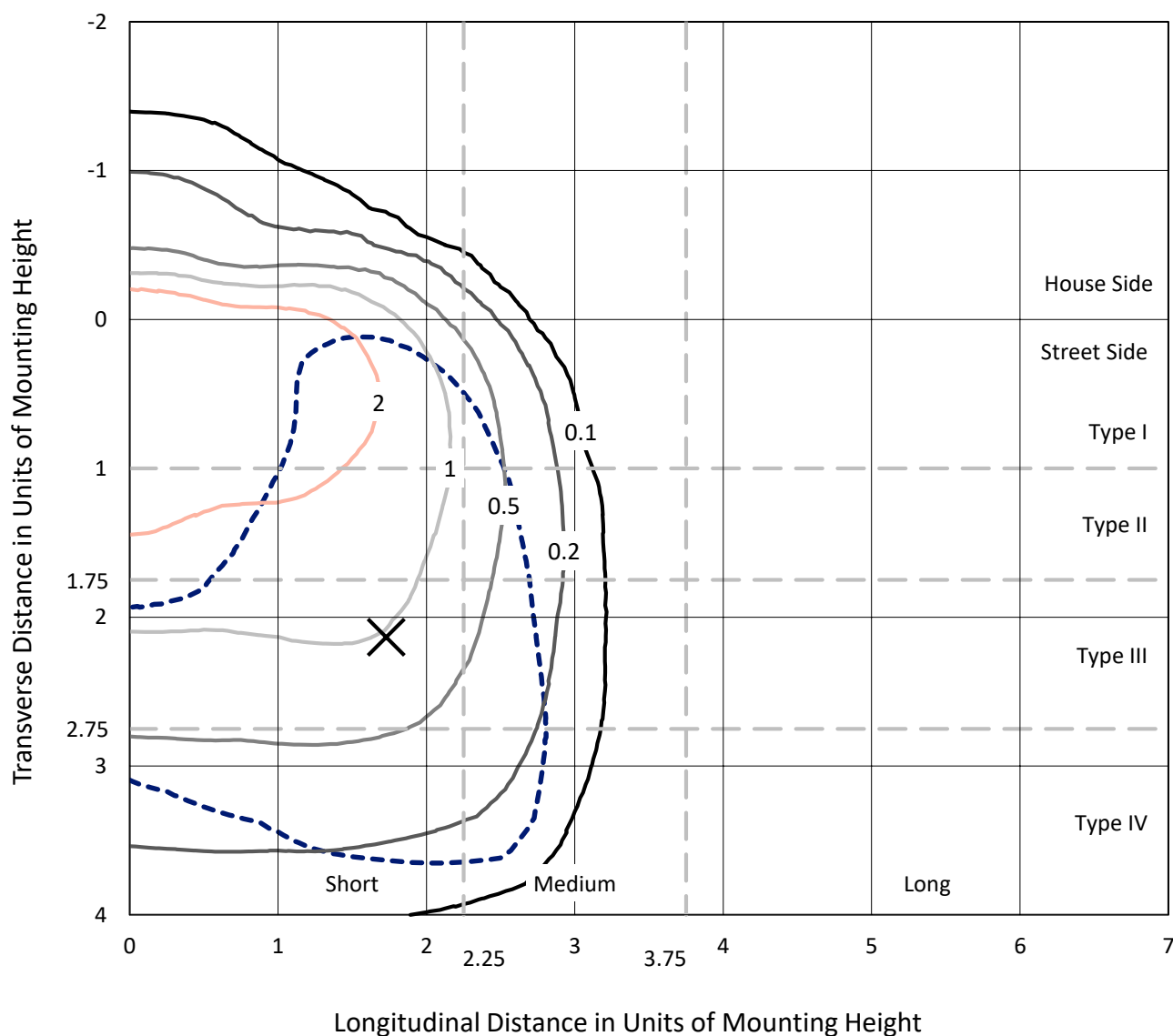
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

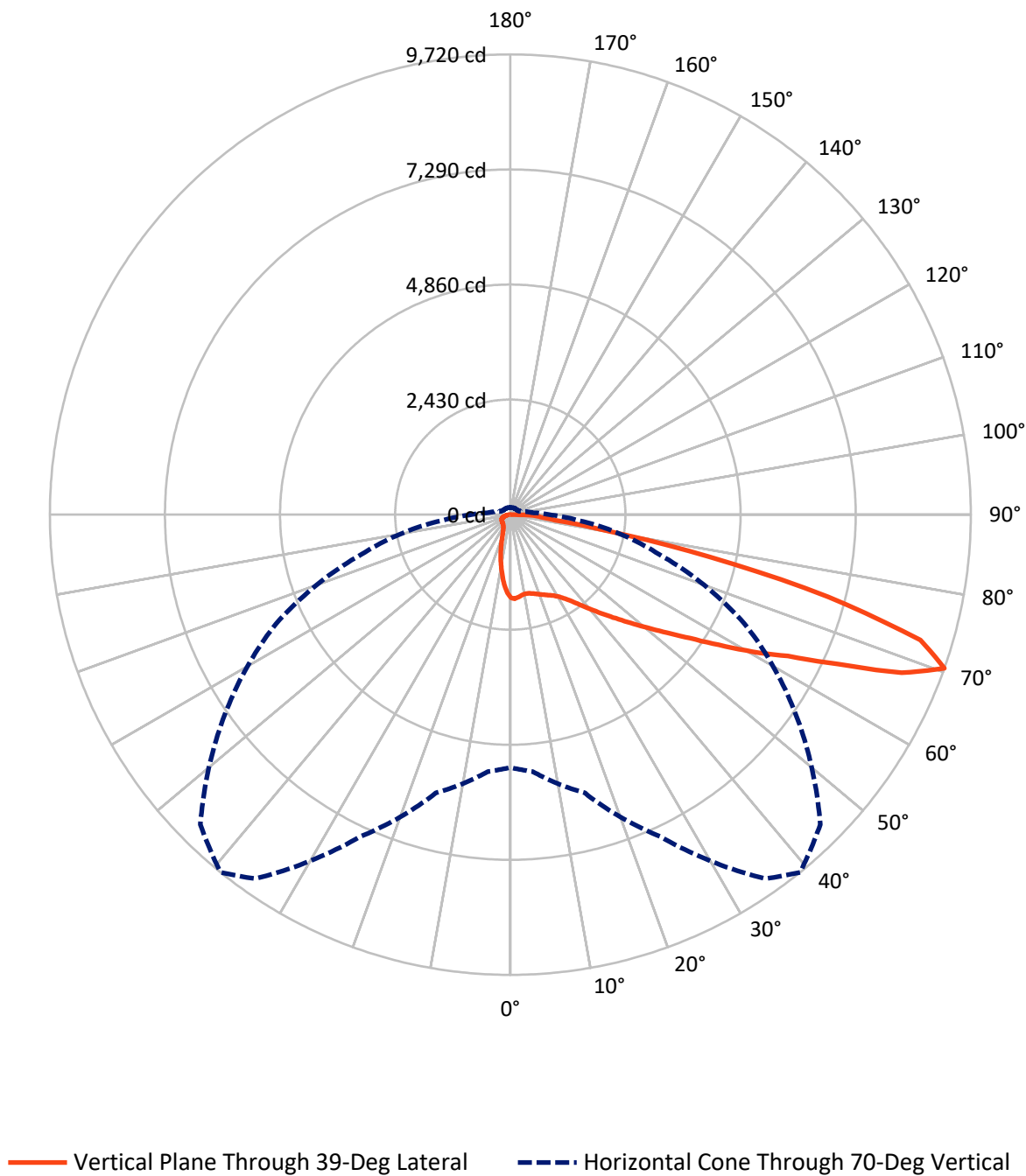


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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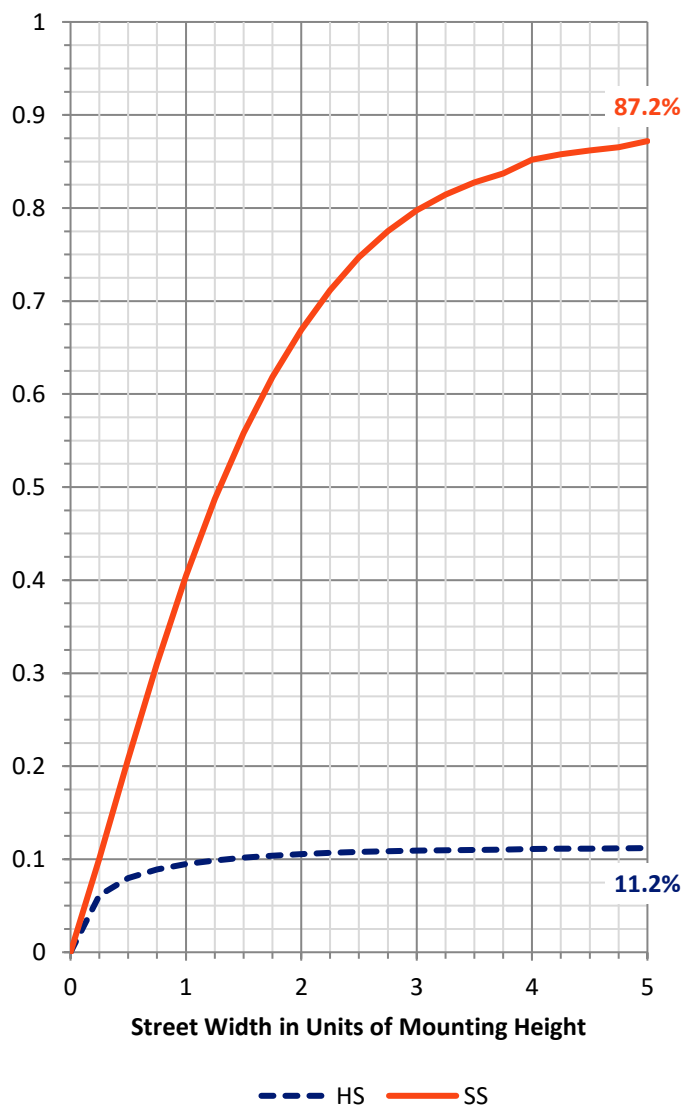
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1316.1	0.0	1316.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10255.9	0.0	10255.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	11572.0	0.0	11572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.3
10°-20°	376.9	3.3
20°-30°	586.8	5.1
30°-40°	914.1	7.9
40°-50°	1534.6	13.3
50°-60°	2437.9	21.1
60°-70°	3251.9	28.1
70°-80°	1963.7	17.0
80°-90°	355.4	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°	11572.0	100.0
0°-180°	11572.0	100.0

Coefficient of Utilization



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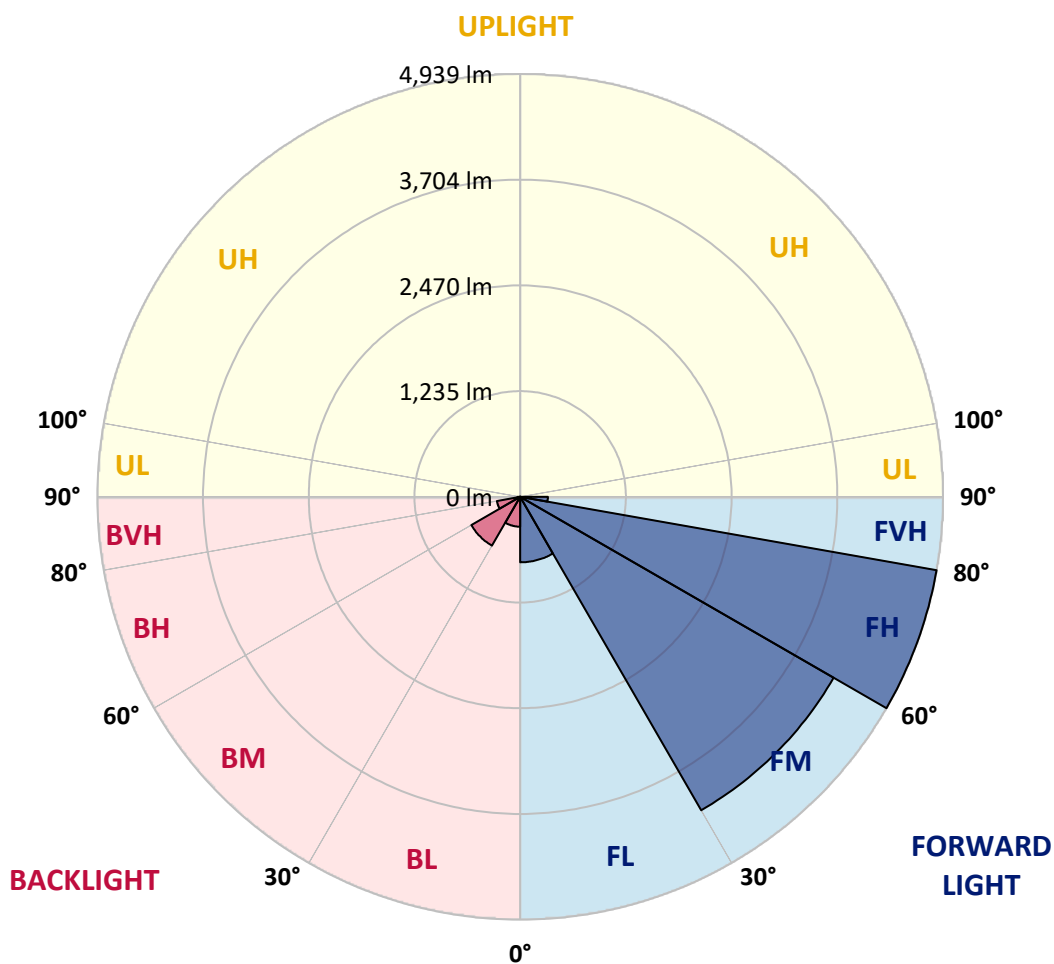
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.3	6.6			
FM	(30°-60°)	4228.0	36.5			
FH	(60°-80°)	4939.3	42.7			G2/5000
FVH	(80°-90°)	323.4	2.8			G3/500
BL	(0°-30°)	349.1	3.0	B1/500		
BM	(30°-60°)	658.6	5.7	B1/1000		
BH	(60°-80°)	276.3	2.4	B1/500		G1/500
BVH	(80°-90°)	32.0	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°	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8
2.5°	1790.9	1790.3	1785.6	1782.1	1779.2	1778.0	1780.3	1771.5	1763.9	1754.5	1744.5
5°	1777.4	1776.8	1769.2	1762.1	1755.0	1752.7	1752.1	1736.2	1726.8	1712.7	1693.9
7.5°	1762.7	1759.8	1749.7	1738.0	1725.6	1719.7	1713.9	1693.3	1682.7	1668.6	1646.8
10°	1747.4	1743.9	1734.5	1722.7	1710.9	1702.1	1692.1	1672.1	1660.9	1650.3	1625.0
12.5°	1731.5	1728.6	1726.2	1720.9	1712.7	1705.0	1697.4	1680.3	1668.6	1656.2	1626.8
15°	1729.2	1728.0	1733.3	1736.8	1732.1	1727.4	1719.2	1704.4	1692.1	1679.7	1641.5
17.5°	1748.0	1747.4	1760.9	1770.3	1768.0	1759.8	1748.6	1732.1	1722.1	1711.5	1663.8
20°	1789.2	1792.1	1808.6	1820.9	1809.2	1797.4	1779.2	1756.2	1750.9	1746.2	1686.8
22.5°	1866.8	1869.8	1881.5	1886.2	1855.7	1838.6	1813.3	1783.9	1780.3	1783.9	1714.4
25°	1988.0	1985.1	1983.3	1965.7	1909.8	1883.3	1850.9	1820.4	1822.1	1838.0	1753.3
27.5°	2148.6	2132.8	2108.1	2055.1	1966.3	1936.8	1897.4	1869.2	1880.4	1911.0	1811.5
30°	2315.2	2297.5	2240.4	2153.9	2040.4	2008.0	1963.9	1932.1	1961.6	2009.8	1889.2
32.5°	2469.3	2466.9	2383.4	2272.2	2142.8	2114.5	2070.4	2034.5	2082.2	2155.7	2005.7
35°	2637.6	2642.9	2542.8	2409.3	2281.0	2251.6	2219.8	2192.8	2256.3	2357.5	2174.5
37.5°	2817.6	2828.2	2709.9	2559.3	2438.7	2426.3	2407.5	2395.8	2494.0	2634.0	2410.5
40°	3058.2	3047.6	2883.5	2728.8	2632.3	2631.7	2625.8	2639.9	2803.5	2995.3	2713.5
42.5°	3315.9	3284.8	3067.6	2910.6	2844.7	2864.7	2876.4	2934.1	3175.9	3434.2	3082.9
45°	3593.6	3523.6	3258.9	3103.0	3080.6	3123.0	3163.0	3288.3	3614.2	3933.7	3487.7
47.5°	3815.4	3747.8	3456.5	3304.8	3353.6	3417.7	3494.8	3693.1	4104.9	4449.7	3887.2
50°	3990.2	3946.1	3656.0	3540.1	3654.2	3753.1	3879.0	4151.4	4615.6	4952.1	4257.3
52.5°	4159.6	4126.7	3857.2	3781.3	4007.2	4143.7	4314.9	4643.2	5139.2	5446.3	4568.5
55°	4312.6	4289.1	4073.7	4082.0	4422.6	4600.3	4815.6	5203.4	5709.9	5887.0	4832.1
57.5°	4485.0	4455.0	4320.8	4459.1	4956.2	5186.9	5466.9	5832.9	6245.3	6278.9	5032.7
60°	4658.5	4632.7	4595.0	4894.5	5634.0	5876.4	6141.8	6443.0	6788.4	6583.0	5021.0
62.5°	4809.2	4812.1	4878.6	5351.6	6297.7	6578.3	6901.9	7199.6	7279.6	6636.0	4649.7
65°	5064.5	5111.0	5309.3	5998.8	7232.0	7607.3	8004.5	7956.8	7415.5	6141.2	3853.7
67.5°	5368.1	5449.9	5851.7	6861.3	8412.8	8911.1	9064.7	8128.0	6871.3	4992.1	2747.0
70°	5337.5	5449.9	6085.9	7504.4	9385.9	9720.1	9254.1	7356.1	5456.3	3261.2	1459.1
72.5°	4739.7	4900.4	5608.7	7209.6	9079.4	9050.0	8033.9	5484.0	3241.8	1309.7	570.1
75°	3612.5	3774.8	4384.4	5695.8	7176.1	6929.0	5700.5	3029.4	1230.2	520.1	359.5
77.5°	2078.0	2204.0	2674.6	3493.0	4552.6	4299.1	3173.0	1347.3	598.9	362.4	280.6
80°	1160.2	1230.2	1516.2	1772.1	2231.0	2045.1	1419.7	837.2	447.1	263.0	216.5
82.5°	917.2	979.6	1226.1	1117.9	1019.0	940.2	815.5	745.4	357.1	165.9	129.4
85°	801.3	860.8	1037.8	880.2	696.0	638.4	662.5	733.7	277.7	100.0	110.6
87.5°	742.5	821.9	924.9	678.4	541.9	480.1	611.3	804.3	89.4	62.4	44.7
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°	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8	1756.8
2.5°	1735.6	1726.2	1710.9	1697.4	1676.2	1665.0	1652.7	1643.8	1636.8	1630.9	1640.3
5°	1682.1	1664.4	1632.1	1597.4	1556.2	1523.8	1496.8	1471.5	1453.8	1442.0	1450.3
7.5°	1631.5	1602.7	1552.1	1489.1	1418.5	1358.5	1309.1	1265.5	1235.5	1216.1	1223.8
10°	1602.7	1566.8	1488.5	1389.7	1285.5	1192.0	1114.3	1047.3	1000.8	974.3	978.4
12.5°	1595.6	1549.1	1440.9	1305.0	1162.6	1032.6	923.1	830.2	764.9	730.7	731.9
15°	1600.9	1541.5	1396.2	1223.8	1043.7	879.6	743.1	630.1	554.2	515.4	514.8
17.5°	1609.7	1535.6	1349.1	1136.1	923.1	732.5	580.1	469.5	402.4	371.2	368.9
20°	1619.1	1526.2	1296.1	1041.4	797.8	596.0	454.2	367.7	325.4	308.3	307.1
22.5°	1632.7	1517.9	1241.4	941.4	674.8	485.4	373.6	315.4	293.0	284.2	283.0
25°	1654.4	1513.8	1183.2	837.2	564.2	406.0	325.4	289.5	276.5	270.6	270.1
27.5°	1690.9	1519.7	1128.5	736.0	474.2	352.4	298.3	276.5	267.1	261.8	261.2
30°	1738.0	1537.9	1070.8	640.1	404.2	315.9	281.8	267.7	260.1	254.8	254.8
32.5°	1816.2	1568.5	1010.2	557.2	354.2	290.6	269.5	260.1	253.6	249.5	248.9
35°	1931.5	1626.2	953.7	488.3	318.3	272.4	258.9	251.8	247.1	244.8	244.8
37.5°	2099.2	1717.4	903.7	438.9	296.5	260.1	248.9	243.6	240.6	240.6	240.6
40°	2324.6	1843.3	863.1	406.0	284.2	251.2	241.2	237.1	235.3	235.9	235.9
42.5°	2602.9	2006.9	836.0	383.0	278.3	245.9	235.9	232.4	230.6	230.0	230.6
45°	2920.0	2192.8	833.1	366.0	272.4	242.4	232.4	228.9	225.3	223.0	223.0
47.5°	3228.3	2381.6	857.2	360.1	265.9	238.3	229.5	225.9	220.6	215.3	215.3
50°	3500.7	2542.3	889.6	362.4	263.6	232.4	224.7	223.0	214.7	208.9	208.3
52.5°	3717.2	2665.8	916.1	369.5	265.9	228.3	218.9	219.5	210.6	204.2	203.6
55°	3890.7	2747.0	909.0	376.5	271.2	225.9	213.6	214.7	207.7	201.2	201.2
57.5°	3966.6	2717.0	830.7	370.7	275.3	226.5	209.5	214.2	208.3	202.4	202.4
60°	3803.7	2450.5	684.2	344.8	270.1	224.7	207.7	216.5	215.9	210.0	209.5
62.5°	3310.6	1973.3	530.7	306.5	251.8	215.9	203.0	215.9	222.4	220.6	220.0
65°	2551.7	1405.6	405.4	265.3	227.1	201.2	190.6	202.4	211.2	213.6	213.0
67.5°	1656.2	861.3	312.4	226.5	199.5	184.2	174.7	180.0	181.8	181.8	180.6
70°	814.3	463.6	248.9	190.6	171.2	165.9	160.6	157.7	154.7	152.4	152.4
72.5°	401.8	303.0	204.7	161.2	147.7	145.3	144.1	140.6	138.3	135.3	134.1
75°	297.1	246.5	174.2	135.9	127.1	124.7	127.1	124.1	123.6	121.2	120.0
77.5°	244.2	210.0	150.0	116.5	108.8	104.7	108.3	108.8	109.4	105.9	104.7
80°	198.3	177.7	125.3	96.5	89.4	86.5	88.8	93.5	94.7	89.4	87.1
82.5°	143.0	145.3	101.2	75.3	69.4	67.1	71.8	77.7	78.8	71.2	69.4
85°	120.0	121.2	77.7	53.5	47.7	44.1	51.8	57.7	61.8	54.1	52.4
87.5°	50.0	71.2	44.7	30.0	26.5	22.9	27.7	30.6	37.1	34.1	33.5
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)