

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: P269012

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SLL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5220.5 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

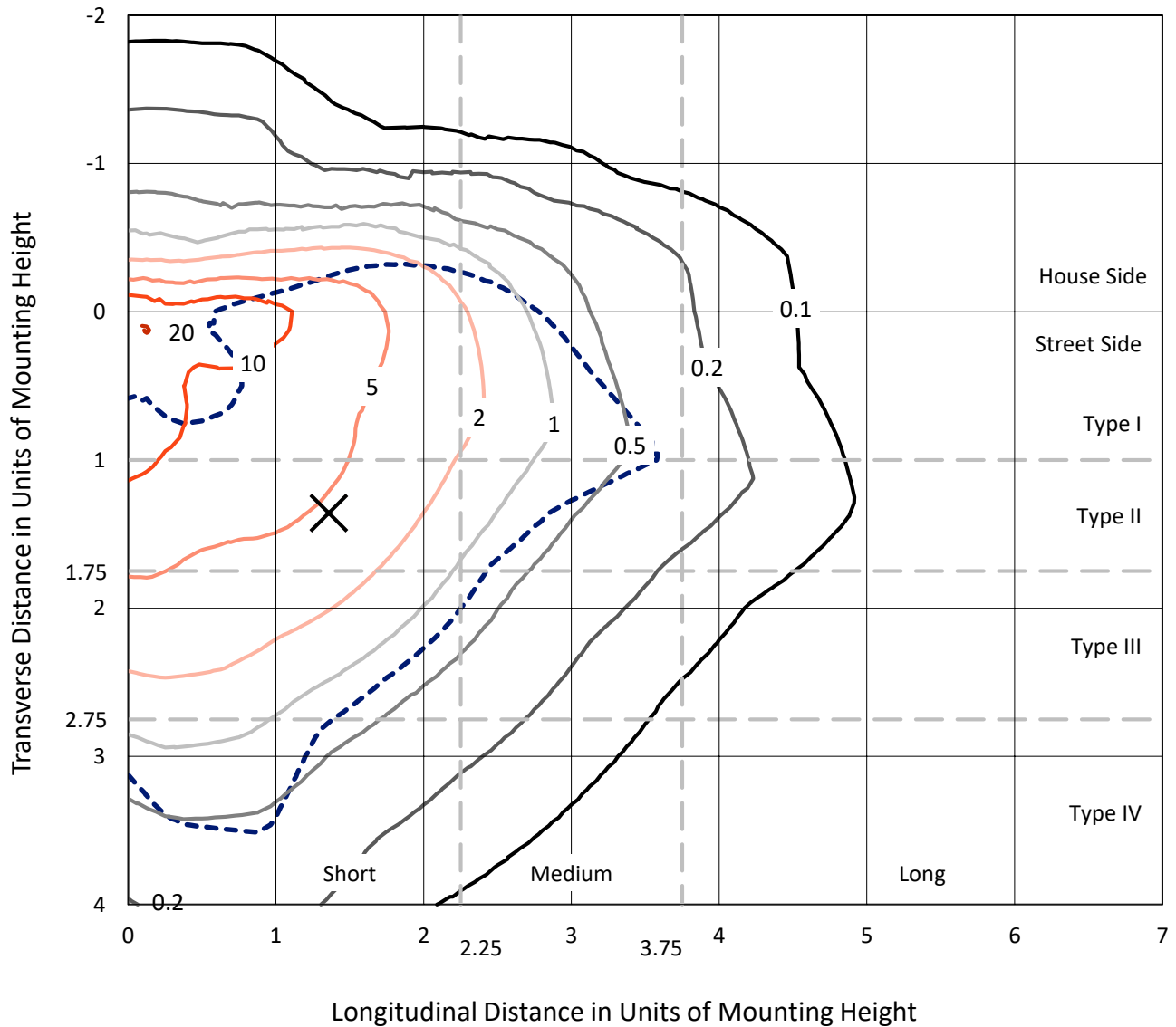


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

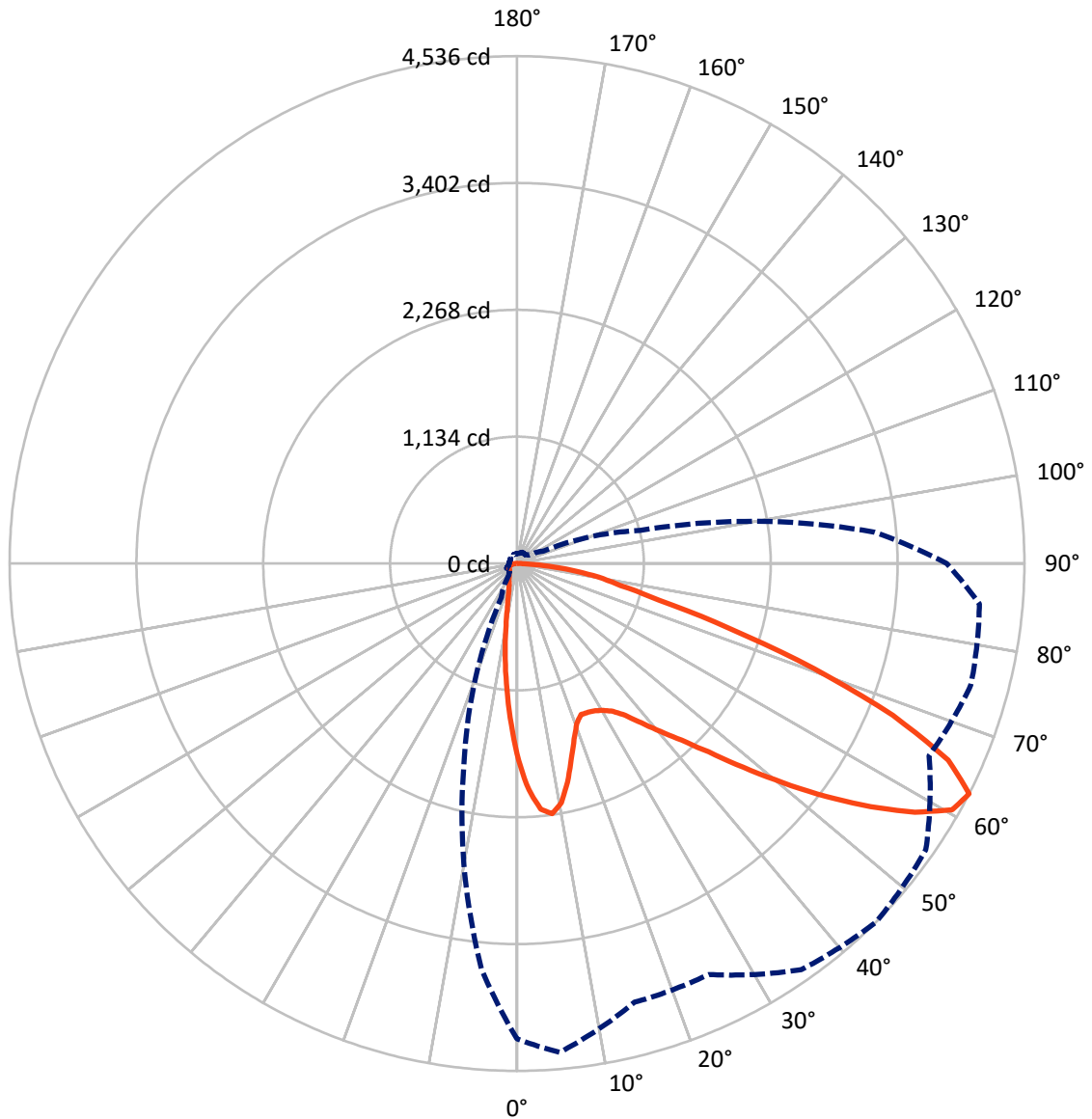


Based on 10 foot mounting height. Maximum calculated value = 20.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	863.9	0.0	863.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4356.6	0.0	4356.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	5220.5	0.0	5220.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.5
10°-20°	235.4	4.5
20°-30°	343.3	6.6
30°-40°	528.7	10.1
40°-50°	778.1	14.9
50°-60°	1141.3	21.9
60°-70°	1275.8	24.4
70°-80°	624.6	12.0
80°-90°	164.9	3.2
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°	5220.5	100.0
0°-180°	5220.5	100.0



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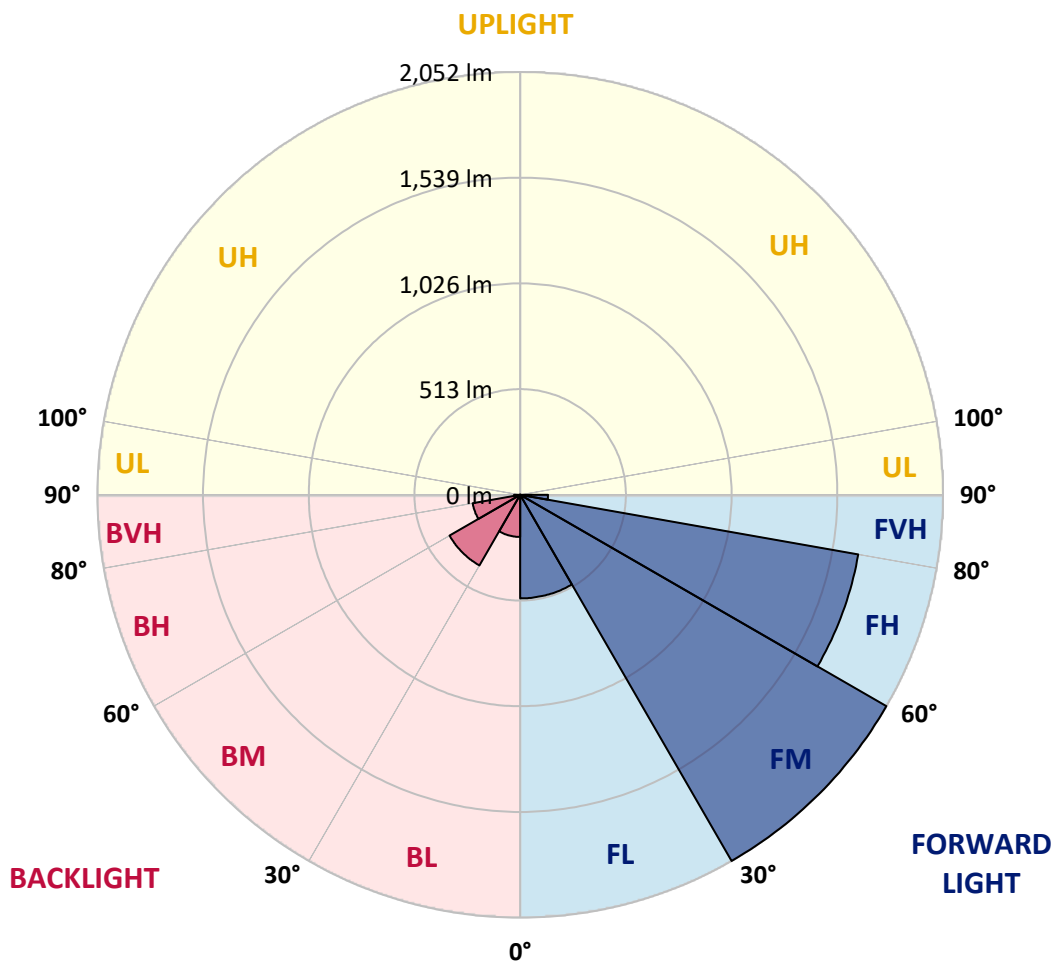
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.7	9.6			
FM (30°-60°)	2052.2	39.3			
FH (60°-80°)	1666.2	31.9			G1/1800
FVH (80°-90°)	135.4	2.6			G2/225
BL (0°-30°)	204.4	3.9	B1/500		
BM (30°-60°)	395.8	7.6	B1/1000		
BH (60°-80°)	234.2	4.5	B1/500		G1/500
BVH (80°-90°)	29.5	0.6			G1/100
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°	45°	55°	65°	75°	85°	90°
0°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1832.6	1861.8	1919.0	1961.8	2013.7	2025.8	2042.4	2026.0	1997.1	1958.7	1946.0
5°	1723.3	1785.9	1924.4	2046.5	2154.9	2205.3	2219.5	2177.9	2093.8	1983.3	1915.8
7.5°	1548.0	1636.9	1824.5	2004.3	2164.0	2258.5	2256.3	2159.5	2004.8	1824.8	1716.8
10°	1396.8	1498.4	1713.5	1914.5	2084.1	2175.5	2140.3	2016.5	1832.1	1624.9	1507.4
12.5°	1312.1	1411.6	1630.1	1831.7	1973.5	2005.0	1978.2	1857.1	1683.2	1473.6	1371.0
15°	1297.4	1406.7	1596.7	1760.9	1840.4	1812.8	1780.7	1726.5	1603.7	1424.8	1317.9
17.5°	1360.8	1481.3	1634.9	1711.5	1698.1	1650.1	1640.9	1647.0	1617.4	1479.1	1355.7
20°	1482.6	1627.2	1725.9	1688.3	1589.9	1523.9	1526.1	1618.2	1705.8	1616.5	1475.6
22.5°	1653.3	1818.3	1857.1	1700.6	1544.2	1465.9	1484.8	1634.0	1846.6	1817.5	1637.5
25°	1874.3	2024.6	1996.8	1745.3	1548.8	1473.1	1488.2	1688.5	2013.1	2018.3	1837.8
27.5°	2088.3	2227.7	2114.3	1804.9	1567.7	1490.0	1510.1	1774.4	2172.1	2236.4	2066.8
30°	2255.4	2352.3	2160.7	1859.0	1605.1	1522.9	1548.0	1855.9	2244.4	2383.7	2243.0
32.5°	2393.7	2463.4	2234.8	1926.1	1673.6	1575.0	1618.8	1954.9	2348.6	2523.7	2415.5
35°	2570.5	2590.3	2326.8	2001.2	1779.5	1665.4	1719.8	2051.9	2447.9	2665.1	2585.4
37.5°	2777.6	2752.0	2413.7	2103.6	1916.4	1806.9	1851.9	2158.4	2529.6	2825.6	2759.1
40°	2982.6	2921.2	2522.8	2262.6	2116.1	1973.5	2026.9	2272.1	2606.1	2986.2	2928.7
42.5°	3156.7	3065.7	2630.4	2437.3	2302.1	2157.5	2221.1	2386.4	2678.9	3123.4	3075.8
45°	3285.6	3172.5	2733.0	2605.2	2558.5	2402.0	2432.2	2517.7	2757.8	3238.0	3197.0
47.5°	3400.8	3279.9	2848.9	2774.5	2782.5	2720.0	2671.5	2670.3	2850.9	3331.5	3311.4
50°	3554.9	3428.8	2973.4	2949.0	3118.8	3077.2	2970.2	2848.5	2968.4	3437.8	3435.4
52.5°	3767.1	3664.7	3125.5	3136.9	3432.9	3460.1	3327.5	3062.6	3152.7	3632.6	3618.8
55°	4018.3	3958.7	3332.7	3353.1	3817.9	3837.5	3705.8	3330.3	3423.6	3914.6	3876.5
57.5°	4214.3	4201.6	3560.0	3612.4	4105.6	4193.3	4072.2	3640.3	3729.0	4152.2	4056.4
60°	4292.3	4353.5	3801.8	3874.2	4371.5	4468.8	4362.7	3912.7	3999.7	4250.7	4044.1
62.5°	4250.2	4386.8	4059.6	4053.5	4430.9	4535.7	4461.1	4064.2	4200.3	4149.1	3839.4
65°	4055.3	4267.0	4209.1	4007.3	4227.8	4236.3	4212.2	3996.5	4247.5	3827.9	3444.0
67.5°	3630.9	3935.7	4012.2	3611.4	3679.6	3623.7	3583.2	3625.6	4000.7	3346.7	2894.5
70°	2957.3	3415.9	3452.6	2888.4	2857.5	2819.8	2739.2	2972.5	3513.8	2743.0	2296.6
72.5°	2174.4	2656.6	2769.4	2118.5	1975.0	1982.6	1919.0	2240.2	2856.9	2037.5	1714.7
75°	1487.8	1923.6	2166.7	1478.3	1306.0	1309.2	1301.1	1587.2	2275.4	1417.3	1283.0
77.5°	1086.8	1374.3	1634.0	993.9	964.8	947.1	942.7	1110.7	1744.6	1029.1	996.4
80°	872.2	1015.4	1097.6	688.7	740.7	739.2	715.4	763.6	1139.3	752.7	745.2
82.5°	605.0	780.3	889.3	539.8	499.8	491.6	497.3	568.7	805.3	514.5	489.2
85°	319.1	518.3	880.8	478.3	296.7	236.8	294.5	465.9	697.7	272.6	238.8
87.5°	40.8	149.7	583.1	190.8	117.0	63.2	139.7	262.2	448.0	55.7	48.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1913.6	1875.4	1825.4	1779.3	1731.4	1683.8	1621.4	1582.5	1555.4	1550.2	1538.7
5°	1867.0	1740.2	1644.3	1561.4	1486.2	1380.1	1321.2	1272.4	1246.4	1243.8	1237.4
7.5°	1652.7	1477.6	1348.3	1230.9	1124.4	1038.6	943.8	899.7	881.5	885.9	890.2
10°	1429.7	1234.0	1085.3	965.4	871.5	799.2	723.1	671.8	636.2	629.1	627.6
12.5°	1266.7	1052.0	907.6	823.0	750.4	682.4	601.8	541.3	495.1	479.2	468.6
15°	1197.8	963.2	811.9	720.6	640.5	554.2	479.2	415.8	373.3	359.6	351.9
17.5°	1212.5	938.4	745.9	629.1	526.5	436.4	342.1	287.8	262.2	255.7	255.7
20°	1289.3	933.8	691.3	544.7	417.0	312.5	235.0	204.1	195.7	194.8	197.2
22.5°	1397.4	949.9	650.6	471.5	324.0	228.2	183.1	171.7	167.9	168.7	171.3
25°	1558.0	1004.1	621.0	406.4	254.3	186.8	163.3	156.5	154.7	156.9	160.2
27.5°	1748.6	1058.4	602.7	357.3	214.7	170.8	155.2	148.1	149.2	152.2	155.0
30°	1915.8	1102.8	573.7	322.3	202.3	171.7	155.2	145.4	144.4	144.9	145.7
32.5°	2065.9	1133.0	539.8	289.0	174.5	152.4	144.9	143.5	137.3	134.8	135.1
35°	2195.4	1133.0	519.4	269.5	156.5	135.1	123.1	115.9	112.7	113.0	116.2
37.5°	2320.2	1110.3	509.3	258.5	146.7	128.5	117.9	111.6	107.3	106.4	107.1
40°	2430.5	1077.2	497.9	254.0	139.1	124.5	114.5	109.4	104.7	103.3	103.7
42.5°	2518.8	1050.6	485.3	247.9	134.6	121.7	112.2	107.5	102.4	101.0	100.7
45°	2614.3	1041.8	468.6	235.9	136.9	122.0	111.6	106.8	101.6	99.9	99.4
47.5°	2740.4	1069.5	451.4	221.5	141.8	123.3	112.5	106.8	101.2	99.9	99.4
50°	2899.0	1135.0	429.6	200.6	136.9	127.4	112.2	105.9	101.2	99.9	98.8
52.5°	3102.7	1223.4	401.0	176.4	133.9	137.3	111.6	104.2	99.9	97.8	95.8
55°	3350.5	1295.7	366.8	156.7	127.4	134.6	110.9	102.1	97.6	94.7	93.0
57.5°	3531.9	1321.9	322.9	143.8	118.2	130.3	109.7	99.6	94.7	92.4	90.1
60°	3495.9	1271.3	285.8	135.7	112.7	117.7	108.8	97.2	92.2	90.4	88.5
62.5°	3208.7	1139.3	262.0	132.1	109.4	107.3	109.7	95.0	89.8	88.2	87.6
65°	2778.0	944.5	252.6	131.2	106.4	101.2	101.9	92.4	87.2	85.8	85.2
67.5°	2291.5	762.2	244.2	133.9	102.8	96.9	94.1	88.9	84.7	83.3	82.0
70°	1807.1	633.9	240.4	132.3	98.2	92.6	89.6	85.2	81.4	80.0	79.2
72.5°	1455.3	535.5	238.5	130.6	92.2	87.0	84.1	80.4	76.4	75.7	74.9
75°	1231.4	420.9	218.4	125.1	85.2	80.0	78.1	74.6	70.5	70.5	70.0
77.5°	949.9	304.4	181.6	110.9	78.1	72.4	70.5	68.0	63.4	64.3	64.0
80°	701.7	198.5	142.0	91.8	69.2	63.7	62.8	60.2	55.3	56.6	56.6
82.5°	480.8	130.3	102.1	75.2	59.1	54.0	54.0	51.4	46.0	46.5	48.1
85°	241.4	89.6	76.4	58.3	46.0	43.4	43.4	41.3	35.8	36.1	38.4
87.5°	73.5	54.0	50.6	41.6	33.0	32.3	31.0	29.6	26.1	25.8	27.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1521.3	1504.9	1485.1	1441.5	1426.9	1426.0	1439.2	1425.4	1451.8	1440.6	1453.0
5°	1226.8	1210.7	1188.6	1133.0	1099.2	1076.2	1065.3	1033.1	1056.3	1039.3	1053.5
7.5°	902.3	906.0	891.4	858.6	784.8	747.8	726.1	706.5	723.5	721.8	748.7
10°	634.3	644.3	633.9	601.0	541.3	520.8	524.9	532.6	554.8	566.2	607.9
12.5°	456.6	456.0	449.4	419.9	380.5	382.9	399.1	412.7	433.1	445.1	487.6
15°	340.9	335.7	332.9	308.7	286.4	291.3	299.3	300.8	313.7	320.9	355.3
17.5°	257.8	260.2	263.5	246.2	229.2	226.2	219.8	212.1	215.9	217.2	234.5
20°	204.6	215.0	222.7	210.7	193.4	184.2	176.2	171.0	171.0	170.8	175.6
22.5°	178.9	186.3	194.6	186.3	170.8	162.8	158.1	154.1	153.5	153.5	158.1
25°	164.7	170.1	178.3	172.5	160.9	155.0	150.6	145.4	143.5	142.9	146.1
27.5°	157.8	160.2	164.1	159.0	149.2	146.3	145.3	140.7	138.0	136.6	139.7
30°	146.1	145.4	145.7	140.7	132.9	132.6	134.6	135.5	134.6	134.2	139.1
32.5°	135.1	133.9	133.8	129.1	122.0	120.3	122.0	123.6	125.8	128.5	134.2
35°	121.5	124.2	126.0	122.0	113.4	108.2	106.2	103.0	101.2	101.2	107.8
37.5°	110.5	117.0	119.7	115.9	106.4	99.4	95.8	95.3	95.6	96.7	103.0
40°	106.8	111.6	113.9	110.2	100.7	94.1	92.2	91.5	92.2	93.9	100.2
42.5°	104.5	107.8	107.5	103.0	95.3	90.6	89.6	88.9	89.6	91.3	98.2
45°	102.4	104.7	102.4	96.9	89.8	87.6	87.9	87.6	88.2	89.8	96.4
47.5°	100.7	101.6	98.8	93.2	85.8	85.2	86.3	87.2	87.9	89.2	96.2
50°	98.2	98.2	95.6	89.8	82.4	82.6	84.1	86.1	86.3	88.2	93.6
52.5°	95.0	94.7	93.0	87.6	79.5	80.4	80.4	82.6	83.3	85.2	91.0
55°	92.4	91.8	91.0	85.8	77.0	78.3	77.4	78.3	79.8	81.7	88.2
57.5°	90.1	88.9	88.9	84.4	74.9	75.5	73.5	74.6	76.4	78.1	84.7
60°	87.9	86.6	87.2	82.4	71.8	71.1	70.2	72.7	73.2	75.2	81.7
62.5°	85.2	84.4	84.7	80.0	69.4	68.0	68.0	70.0	70.2	73.2	79.5
65°	83.3	82.0	81.7	77.8	66.8	65.1	66.0	66.8	67.5	70.2	76.4
67.5°	81.1	79.0	79.0	75.7	64.0	62.3	64.0	63.7	64.6	67.2	72.0
70°	78.6	75.5	75.7	74.3	61.2	59.1	60.5	60.2	60.8	62.5	67.5
72.5°	74.6	72.0	72.7	72.0	58.3	55.3	56.0	56.0	56.0	57.4	62.5
75°	69.4	67.5	69.2	70.5	54.7	50.8	51.4	51.4	50.6	51.4	57.8
77.5°	63.2	62.1	67.7	65.8	50.8	46.0	46.0	45.4	43.6	44.7	51.7
80°	56.2	55.3	62.5	55.1	46.3	39.9	39.3	37.9	36.1	37.0	43.8
82.5°	49.0	48.1	52.6	42.2	39.9	33.0	31.6	28.9	27.3	28.1	34.5
85°	40.2	40.2	40.5	31.9	30.5	25.2	23.5	20.1	18.1	18.7	24.7
87.5°	28.7	29.6	27.3	21.7	18.1	14.1	12.9	10.9	9.3	10.6	12.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1516.1	1547.7	1583.5	1629.4	1668.8	1733.4	1795.4	1832.6
5°	1133.7	1186.1	1251.5	1335.6	1413.9	1531.6	1648.4	1723.3
7.5°	811.3	867.6	938.1	1043.1	1154.0	1304.0	1458.4	1548.0
10°	671.3	729.0	788.4	859.1	949.9	1113.2	1295.7	1396.8
12.5°	555.3	617.0	680.9	755.7	839.6	985.5	1195.9	1312.1
15°	425.0	493.9	569.3	663.8	769.0	937.6	1171.2	1297.4
17.5°	291.3	368.1	460.9	577.4	706.2	922.1	1215.3	1360.8
20°	200.6	256.6	355.5	492.2	647.0	920.0	1300.2	1482.6
22.5°	167.9	192.9	265.2	413.8	602.7	944.7	1432.0	1653.3
25°	155.2	170.1	211.8	345.8	570.2	1001.6	1613.4	1874.3
27.5°	147.9	161.2	192.2	301.3	544.7	1067.5	1790.0	2088.3
30°	150.6	164.4	186.8	278.7	510.0	1122.6	1946.5	2255.4
32.5°	135.7	141.8	160.2	258.5	484.9	1168.9	2083.8	2393.7
35°	115.6	126.3	142.9	249.1	485.5	1199.9	2233.2	2570.5
37.5°	110.2	120.8	132.9	245.6	492.2	1232.8	2404.9	2777.6
40°	106.8	116.5	126.8	243.6	498.5	1262.9	2573.0	2982.6
42.5°	104.5	113.4	126.3	236.8	501.7	1290.0	2711.4	3156.7
45°	104.2	113.4	128.5	229.8	506.6	1318.9	2827.3	3285.6
47.5°	104.5	117.0	124.2	221.5	506.6	1367.5	2963.2	3400.8
50°	103.3	123.3	119.7	209.8	494.7	1459.2	3149.8	3554.9
52.5°	102.8	122.6	110.9	191.7	474.3	1605.1	3388.9	3767.1
55°	101.2	118.2	104.5	164.7	450.6	1764.0	3645.0	4018.3
57.5°	99.9	104.7	101.0	141.3	413.8	1876.0	3821.1	4214.3
60°	111.8	91.5	98.2	129.7	364.7	1906.7	3814.3	4292.3
62.5°	103.7	85.8	94.4	127.1	330.2	1820.5	3638.0	4250.2
65°	81.1	82.0	90.6	134.6	321.1	1592.4	3325.7	4055.3
67.5°	74.3	78.3	87.0	144.1	322.0	1275.1	2859.1	3630.9
70°	70.0	74.3	82.6	148.9	324.3	950.4	2260.6	2957.3
72.5°	65.1	68.9	77.8	149.7	309.3	690.4	1742.3	2174.4
75°	59.4	62.8	70.8	130.6	256.2	478.9	1332.7	1487.8
77.5°	52.8	55.3	62.3	100.7	190.4	306.5	1000.4	1086.8
80°	45.0	46.5	52.2	73.8	130.3	191.7	791.4	872.2
82.5°	36.1	36.7	40.5	55.3	84.7	123.1	530.0	605.0
85°	25.5	25.5	27.8	40.2	57.8	78.1	287.8	319.1
87.5°	12.0	12.3	12.3	22.1	30.2	39.6	66.3	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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