

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: P191310

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191310
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-02-LED-E1-SLR-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7213.8 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

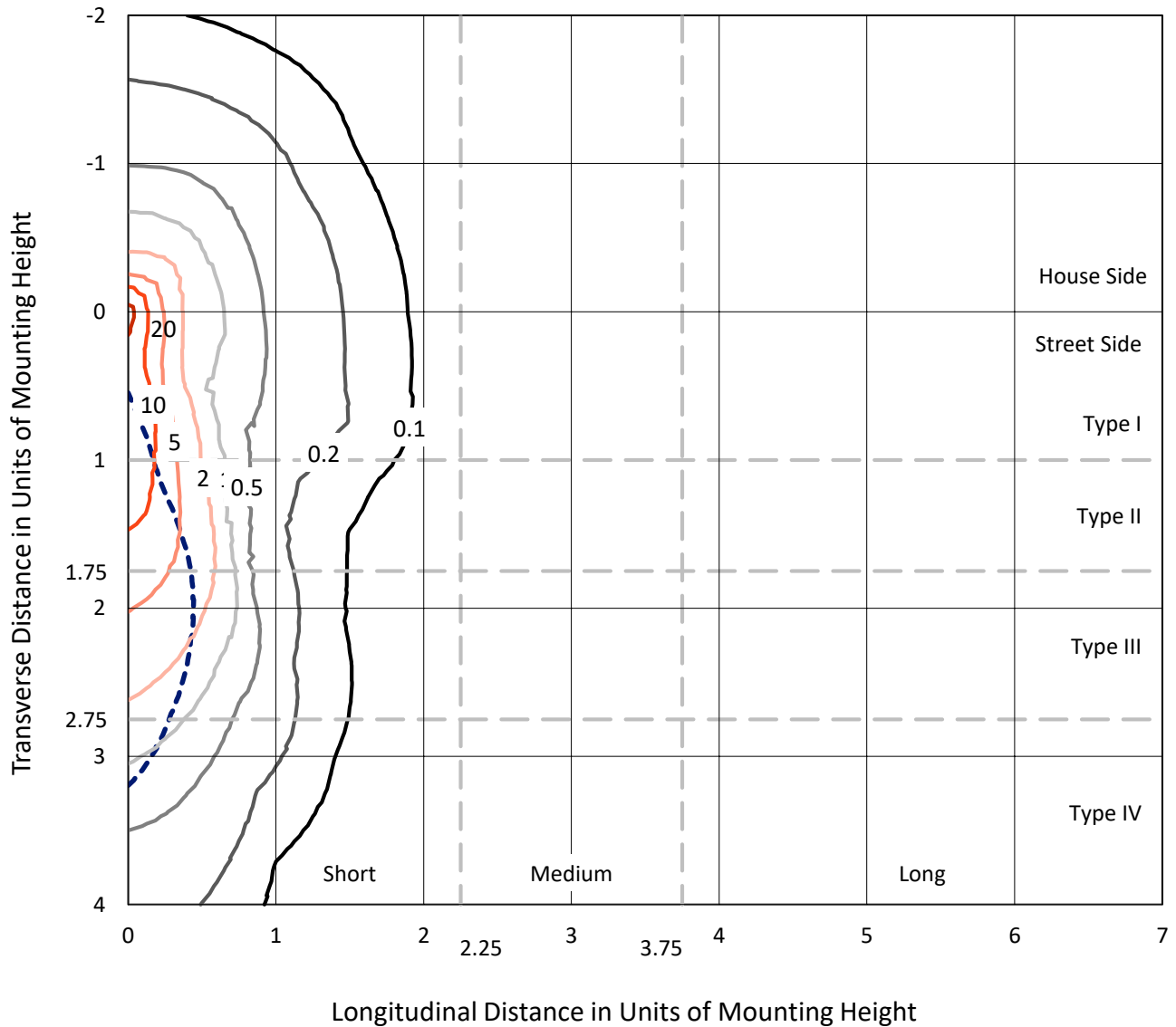


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Iso-Footcandle Lines of Horizontal Illumination

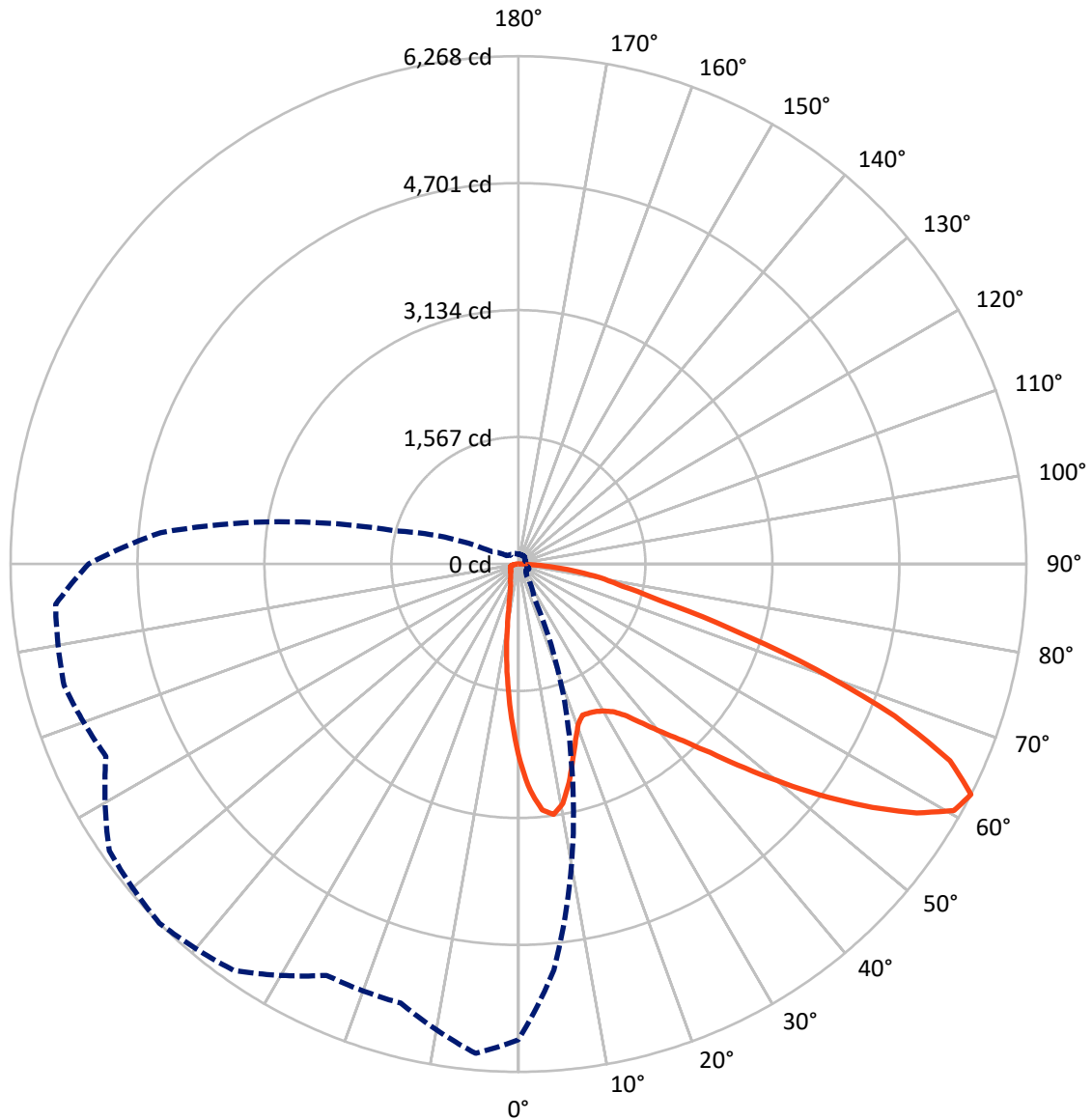
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1193.8	0.0	1193.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6020.1	0.0	6020.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	7213.8	0.0	7213.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.5
10°-20°	325.3	4.5
20°-30°	474.3	6.6
30°-40°	730.6	10.1
40°-50°	1075.2	14.9
50°-60°	1577.1	21.9
60°-70°	1762.9	24.4
70°-80°	863.1	12.0
80°-90°	227.9	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°	7213.8	100.0
0°-180°	7213.8	100.0



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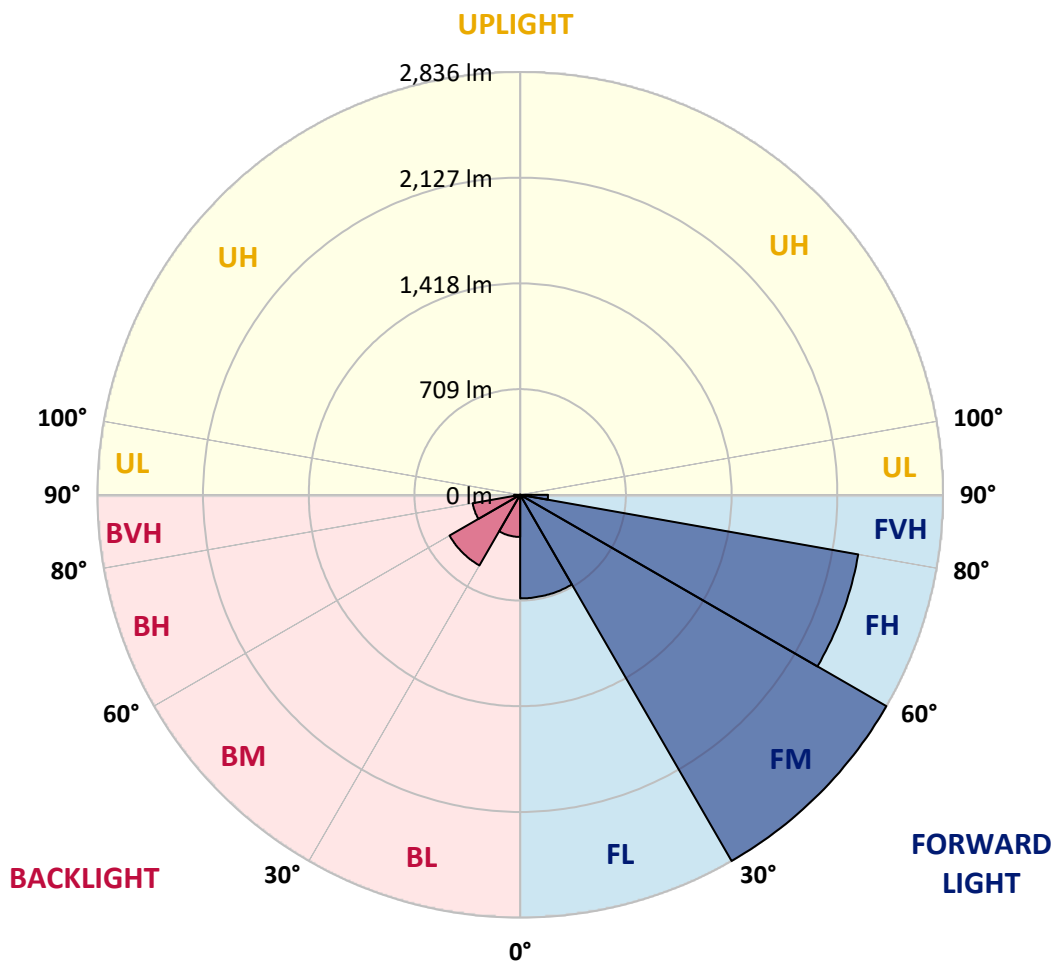
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	694.7	9.6			
FM	(30°-60°)	2835.8	39.3			
FH	(60°-80°)	2302.4	31.9			G2/5000
FVH	(80°-90°)	187.1	2.6			G2/225
BL	(0°-30°)	282.4	3.9	B1/500		
BM	(30°-60°)	547.0	7.6	B1/1000		
BH	(60°-80°)	323.6	4.5	B1/500		G1/500
BVH	(80°-90°)	40.7	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°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2532.4	2480.9	2395.2	2305.9	2251.6	2188.2	2138.6	2095.0	2007.7	1990.7	2006.2
5°	2381.3	2277.8	2116.4	1953.8	1845.6	1729.4	1639.0	1566.3	1455.8	1436.3	1459.8
7.5°	2139.0	2015.3	1801.9	1594.6	1441.4	1296.4	1198.8	1121.1	1034.6	997.4	999.7
10°	1930.0	1790.5	1538.2	1312.5	1187.2	1089.3	1007.3	927.5	839.9	782.4	766.5
12.5°	1813.1	1652.5	1361.8	1160.3	1044.1	941.0	852.6	767.3	673.7	615.1	598.4
15°	1792.8	1618.3	1295.6	1062.7	917.3	786.8	682.5	587.3	490.9	443.3	433.4
17.5°	1880.5	1679.4	1274.1	975.9	797.9	636.9	508.8	402.5	324.0	300.2	298.2
20°	2048.6	1796.8	1271.3	894.3	680.1	491.3	354.6	277.2	242.6	236.0	236.3
22.5°	2284.6	1978.8	1305.5	832.8	571.8	366.4	266.5	232.0	218.5	212.2	212.2
25°	2589.9	2229.4	1384.0	788.0	477.8	292.7	235.2	214.5	201.8	197.5	198.2
27.5°	2885.7	2473.3	1475.2	752.7	416.3	265.7	222.9	204.2	193.1	188.7	190.8
30°	3116.5	2689.8	1551.3	704.7	385.0	258.2	227.2	208.2	192.3	185.6	186.0
32.5°	3307.7	2879.4	1615.1	670.1	357.3	221.3	195.9	187.6	185.6	177.7	173.7
35°	3552.0	3086.0	1658.0	671.0	344.2	197.5	174.5	159.8	149.1	139.9	139.9
37.5°	3838.2	3323.2	1703.6	680.1	339.4	183.6	166.9	152.3	142.4	133.6	132.1
40°	4121.4	3555.5	1745.3	688.9	336.7	175.2	161.0	147.5	138.4	129.7	127.3
42.5°	4362.1	3746.7	1782.5	693.2	327.1	174.5	156.6	144.3	135.6	126.1	123.7
45°	4540.2	3906.9	1822.6	699.9	317.6	177.7	156.6	143.9	133.3	124.1	121.7
47.5°	4699.1	4094.9	1889.6	699.9	306.2	171.8	161.8	144.3	132.9	123.4	121.3
50°	4912.1	4352.6	2016.4	683.6	289.9	165.4	170.5	142.8	129.3	121.7	119.4
52.5°	5205.6	4683.0	2218.0	655.5	264.9	153.0	169.3	142.0	125.7	117.7	115.0
55°	5552.6	5036.6	2437.6	622.6	227.6	144.3	163.4	139.9	121.7	113.0	110.3
57.5°	5823.5	5280.2	2592.3	571.8	195.1	139.6	144.7	138.0	117.0	107.8	105.5
60°	5931.3	5270.7	2634.7	504.0	179.2	135.6	126.5	154.7	113.0	103.9	101.2
62.5°	5873.0	5027.1	2515.7	456.4	175.6	130.4	118.6	143.1	109.9	101.2	97.2
65°	5603.7	4595.7	2200.5	443.8	186.0	125.3	113.4	112.2	105.5	97.2	93.2
67.5°	5017.2	3950.8	1761.9	445.0	199.1	120.2	108.2	102.7	99.5	92.8	89.2
70°	4086.5	3123.7	1313.4	448.2	205.8	114.2	102.7	96.8	93.2	86.4	84.1
72.5°	3004.7	2407.5	954.1	427.5	207.0	107.5	95.1	90.0	86.4	79.3	77.3
75°	2055.7	1841.6	661.8	354.1	180.4	98.0	86.8	82.0	79.7	71.0	69.8
77.5°	1501.8	1382.4	423.5	262.9	139.2	86.0	76.5	72.9	71.4	61.9	60.3
80°	1205.1	1093.7	264.9	180.0	101.9	72.2	64.2	62.3	60.7	51.1	49.9
82.5°	836.0	732.4	170.1	117.0	76.5	56.0	50.7	49.9	47.6	38.9	37.6
85°	441.0	397.7	107.8	79.7	55.5	38.5	35.3	35.3	34.1	25.8	25.0
87.5°	56.3	91.6	54.7	41.6	30.5	17.1	17.1	16.7	17.8	14.6	12.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	1969.7	1988.7	1970.5	1971.6	1991.9	2052.1	2079.6	2102.2	2126.3	2142.2	2149.3
5°	1427.6	1472.0	1487.1	1518.8	1565.6	1642.6	1673.0	1695.2	1710.0	1718.7	1722.2
7.5°	976.3	1003.3	1033.4	1084.5	1186.5	1231.7	1251.9	1246.8	1230.1	1224.2	1218.2
10°	736.0	725.3	719.7	747.9	830.4	876.0	890.3	876.4	867.3	869.2	879.1
12.5°	570.3	551.6	529.0	525.8	580.1	621.0	630.1	631.0	647.5	662.3	684.0
15°	415.6	413.6	402.5	395.8	426.7	460.0	464.0	471.1	486.2	496.8	515.9
17.5°	293.1	303.7	312.5	316.8	340.2	364.1	359.7	356.1	353.3	353.3	362.4
20°	236.3	243.5	254.6	267.3	291.0	307.7	297.1	282.7	272.4	269.2	270.5
22.5°	213.0	218.5	224.8	236.0	257.4	268.8	257.4	247.0	236.7	233.1	232.0
25°	201.0	208.2	214.1	222.5	238.3	246.2	235.2	227.6	221.3	216.9	213.7
27.5°	194.4	200.7	202.2	206.2	219.7	226.8	221.3	218.1	214.1	210.2	206.2
30°	187.2	186.0	183.2	183.6	194.4	201.4	201.0	201.8	201.4	200.3	199.5
32.5°	170.9	168.6	166.1	168.6	178.4	184.7	185.2	186.8	186.8	186.4	189.6
35°	142.4	146.7	149.5	156.6	168.6	174.1	171.8	167.8	160.6	156.2	155.8
37.5°	131.7	132.5	137.2	147.1	160.2	165.4	161.8	152.6	147.9	147.1	148.3
40°	126.5	127.3	130.1	139.2	152.3	157.4	154.3	147.5	143.1	142.8	144.7
42.5°	123.0	123.7	125.3	131.7	142.4	148.7	149.1	144.3	139.2	139.6	141.6
45°	120.9	121.3	120.9	124.1	134.0	141.6	144.7	141.6	137.2	138.0	140.3
47.5°	120.5	119.4	117.7	118.6	128.9	136.5	140.3	139.2	137.2	138.0	139.9
50°	119.0	116.2	114.2	113.9	124.1	132.1	135.6	135.6	136.5	138.0	139.9
52.5°	114.2	111.0	111.0	109.9	120.9	128.5	130.8	131.2	132.5	135.2	138.0
55°	108.2	107.1	108.2	106.3	118.6	125.7	126.9	127.7	128.5	130.8	134.8
57.5°	103.1	101.5	104.3	103.5	116.6	123.0	123.0	124.5	124.5	127.7	130.8
60°	100.4	97.2	98.3	99.1	113.9	120.5	119.8	121.3	122.1	124.9	127.3
62.5°	96.8	94.0	94.0	96.0	110.7	117.0	116.6	117.7	120.9	121.7	124.1
65°	92.4	91.2	90.0	92.4	107.5	113.0	113.4	115.0	117.7	118.6	120.5
67.5°	88.1	88.4	86.0	88.4	104.6	109.0	109.0	112.2	113.4	115.0	117.0
70°	83.3	83.7	81.7	84.5	102.7	104.6	104.3	108.6	109.5	110.7	112.6
72.5°	77.3	77.3	76.5	80.5	99.5	100.4	99.5	103.1	103.5	104.6	105.5
75°	71.0	71.0	70.2	75.7	97.6	95.5	93.2	96.0	96.8	97.6	97.6
77.5°	62.6	63.4	63.4	70.2	90.8	93.6	85.6	87.3	88.4	88.8	87.7
80°	52.4	54.3	55.1	63.8	76.1	86.4	76.5	77.7	78.2	78.2	76.5
82.5°	40.1	43.6	45.6	55.1	58.3	72.5	66.6	67.8	66.6	64.2	63.4
85°	27.7	32.5	34.9	42.0	44.0	56.0	55.5	55.5	53.1	49.9	49.6
87.5°	15.0	17.8	19.4	25.0	30.2	37.6	40.8	39.7	37.6	35.7	36.1
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°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2186.6	2240.6	2326.6	2392.4	2458.7	2522.5	2591.4	2644.2	2689.0	2706.5	2759.6
5°	1758.4	1825.8	1907.0	2053.8	2157.6	2272.3	2404.8	2580.0	2647.4	2740.6	2893.3
7.5°	1243.2	1304.3	1435.1	1553.7	1700.9	1863.0	2041.9	2283.7	2372.2	2521.7	2770.4
10°	928.3	999.3	1104.4	1204.3	1334.0	1499.7	1705.2	1975.6	2083.1	2245.3	2531.6
12.5°	747.9	831.6	943.1	1037.0	1137.3	1254.3	1453.8	1750.4	1894.3	2036.3	2325.8
15°	574.6	662.3	765.8	885.2	995.7	1121.9	1330.9	1655.2	1821.0	1968.9	2215.9
17.5°	397.7	472.7	603.1	727.7	869.2	1030.6	1296.7	1675.5	1873.3	2043.9	2234.9
20°	281.9	324.8	431.9	576.2	752.7	955.3	1290.4	1781.7	2039.0	2233.8	2357.1
22.5°	237.1	253.0	315.3	447.7	651.5	899.0	1312.5	1930.8	2262.8	2511.3	2551.9
25°	216.1	225.7	258.2	351.4	561.5	858.2	1387.5	2152.9	2539.6	2789.0	2781.8
27.5°	204.6	214.5	236.0	296.7	493.7	832.8	1462.5	2416.2	2856.0	3090.3	3001.5
30°	201.0	214.5	237.1	279.6	445.3	792.7	1524.0	2647.4	3099.4	3293.8	3101.5
32.5°	198.2	200.3	210.5	241.1	399.4	745.9	1565.6	2854.7	3337.8	3487.3	3245.4
35°	160.2	170.1	186.8	216.1	372.4	717.8	1565.6	3033.7	3572.6	3682.8	3382.6
37.5°	154.3	163.0	177.7	202.6	357.3	703.9	1534.2	3206.1	3812.4	3904.5	3495.6
40°	151.1	158.3	172.1	192.3	351.0	688.0	1488.7	3358.4	4046.8	4126.6	3601.1
42.5°	148.7	155.1	168.2	186.0	342.6	670.5	1451.8	3480.6	4250.3	4316.1	3701.9
45°	147.5	154.3	168.6	189.1	326.0	647.5	1439.5	3612.7	4417.6	4474.3	3810.9
47.5°	147.5	155.5	170.5	195.9	306.2	623.8	1478.0	3786.7	4575.9	4603.6	3939.4
50°	146.3	155.1	176.0	189.1	277.2	593.6	1568.4	4006.0	4747.2	4750.4	4101.9
52.5°	143.9	154.3	189.6	185.2	243.9	554.0	1690.5	4287.6	5000.6	5019.6	4356.5
55°	141.2	153.0	186.0	176.0	216.6	506.8	1790.5	4629.8	5356.7	5409.4	4730.9
57.5°	137.6	151.5	180.0	163.4	198.7	446.1	1826.6	4880.4	5605.3	5737.7	5152.8
60°	134.4	150.3	162.5	155.8	187.6	395.0	1756.7	4830.8	5588.3	5873.8	5526.8
62.5°	131.2	151.5	148.3	151.1	182.4	362.0	1574.3	4433.9	5305.5	5733.4	5804.0
65°	127.7	140.8	139.9	147.1	181.3	348.9	1305.1	3838.6	4759.1	5289.7	5869.4
67.5°	123.0	130.1	134.0	142.0	185.2	337.5	1053.2	3166.4	3999.6	4624.7	5528.3
70°	117.7	123.7	128.1	135.6	182.8	332.4	876.0	2497.1	3173.6	3790.2	4855.4
72.5°	111.0	116.2	120.2	127.3	180.4	329.5	740.0	2010.9	2369.5	2815.6	3947.7
75°	103.1	107.8	110.7	117.7	172.9	301.8	581.8	1701.6	1773.0	1958.5	3144.2
77.5°	94.0	97.6	99.9	107.8	153.0	251.0	420.7	1312.5	1376.8	1422.0	2410.7
80°	83.3	86.8	88.1	95.5	126.9	196.3	274.5	969.6	1029.8	1040.1	1574.3
82.5°	71.0	74.6	74.6	81.7	103.9	141.2	180.0	664.2	676.2	711.1	1112.8
85°	57.1	59.8	59.8	63.4	80.5	105.5	123.7	333.5	329.9	376.8	964.0
87.5°	40.8	42.9	44.8	45.6	57.5	69.8	74.6	101.5	67.0	76.9	619.0
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°	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2	2437.2
2.5°	2799.7	2822.3	2799.3	2782.6	2710.8	2651.8	2572.8	2532.4
5°	3009.4	3066.9	3047.6	2977.7	2827.8	2659.3	2467.8	2381.3
7.5°	2984.0	3117.7	3120.9	2990.4	2769.5	2521.3	2261.9	2139.0
10°	2786.6	2957.6	3006.2	2879.8	2645.5	2367.8	2070.5	1930.0
12.5°	2566.1	2733.4	2770.8	2727.1	2531.2	2252.4	1950.7	1813.1
15°	2385.6	2460.6	2505.0	2543.2	2433.3	2206.4	1943.9	1792.8
17.5°	2275.9	2267.5	2280.2	2346.4	2365.1	2259.2	2047.0	1880.5
20°	2236.2	2108.9	2105.7	2196.9	2332.9	2384.9	2248.4	2048.6
22.5°	2258.0	2051.7	2025.6	2133.9	2350.0	2566.1	2512.6	2284.6
25°	2333.4	2056.5	2035.5	2140.2	2411.8	2759.2	2797.7	2589.9
27.5°	2451.9	2086.7	2058.9	2166.4	2494.0	2921.4	3078.5	2885.7
30°	2564.5	2139.0	2104.5	2218.0	2568.8	2985.7	3250.5	3116.5
32.5°	2701.3	2237.0	2176.3	2312.7	2661.7	3088.0	3404.1	3307.7
35°	2835.4	2376.5	2301.2	2459.1	2765.1	3215.2	3579.3	3552.0
37.5°	2982.5	2559.0	2496.7	2648.2	2906.7	3335.4	3802.9	3838.2
40°	3139.5	2800.8	2727.1	2924.2	3126.4	3486.1	4036.6	4121.4
42.5°	3297.8	3069.4	2981.3	3181.2	3368.0	3634.9	4236.3	4362.1
45°	3479.0	3360.8	3319.2	3535.3	3600.0	3776.4	4384.0	4540.2
47.5°	3690.0	3691.5	3758.5	3845.0	3833.9	3936.6	4532.2	4699.1
50°	3936.2	4104.4	4252.3	4309.8	4075.0	4108.7	4738.0	4912.1
52.5°	4232.0	4598.1	4781.3	4743.6	4334.8	4318.9	5064.0	5205.6
55°	4602.1	5120.7	5302.8	5275.8	4633.4	4605.2	5470.1	5552.6
57.5°	5030.3	5627.2	5794.5	5673.1	4991.8	4919.3	5806.0	5823.5
60°	5406.6	6028.5	6175.1	6040.7	5353.5	5253.6	6015.8	5931.3
62.5°	5616.0	6164.4	6267.5	6122.8	5601.4	5609.7	6061.7	5873.0
65°	5522.4	5820.6	5853.9	5842.1	5537.5	5816.3	5896.4	5603.7
67.5°	5010.1	4951.4	5007.3	5084.6	4990.3	5544.2	5438.3	5017.2
70°	4107.6	3785.1	3896.5	3948.5	3991.3	4770.9	4720.2	4086.5
72.5°	3095.6	2651.8	2739.8	2729.1	2927.4	3826.8	3670.9	3004.7
75°	2193.3	1797.9	1809.1	1804.7	2042.6	2994.0	2658.1	2055.7
77.5°	1534.6	1302.7	1308.7	1333.2	1373.3	2258.0	1899.1	1501.8
80°	1055.3	988.6	1021.5	1023.5	951.8	1516.8	1403.0	1205.1
82.5°	785.9	687.2	679.3	690.8	745.9	1229.0	1078.2	836.0
85°	643.6	406.8	327.1	410.0	661.0	1217.0	716.2	441.0
87.5°	362.4	193.1	87.3	161.8	263.7	805.8	207.0	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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