

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: P270219

Luminaire Tested: **GWC-AF-02-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270219
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: GWC-AF-02-LED-E1-SLL-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7663.4 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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

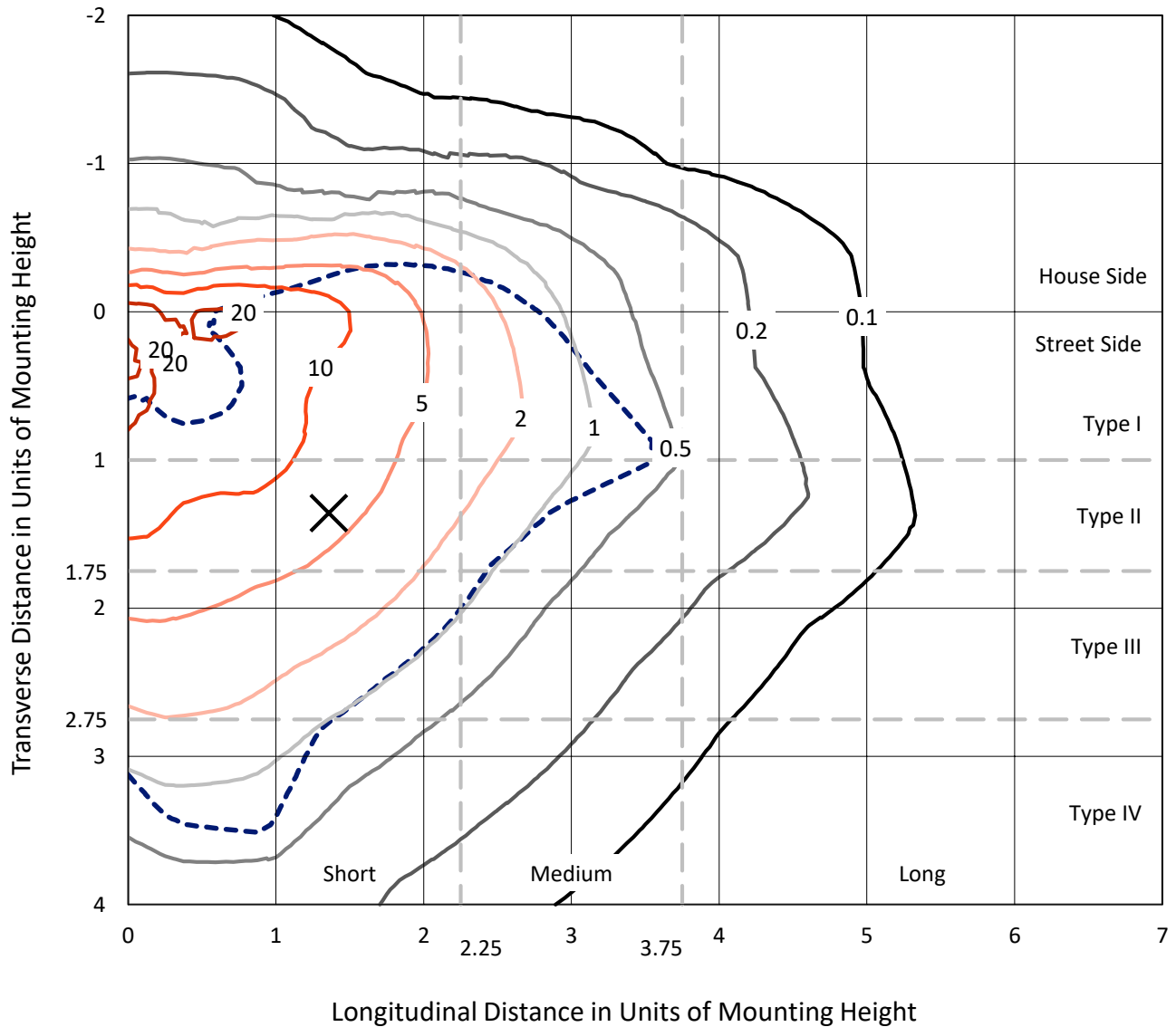


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

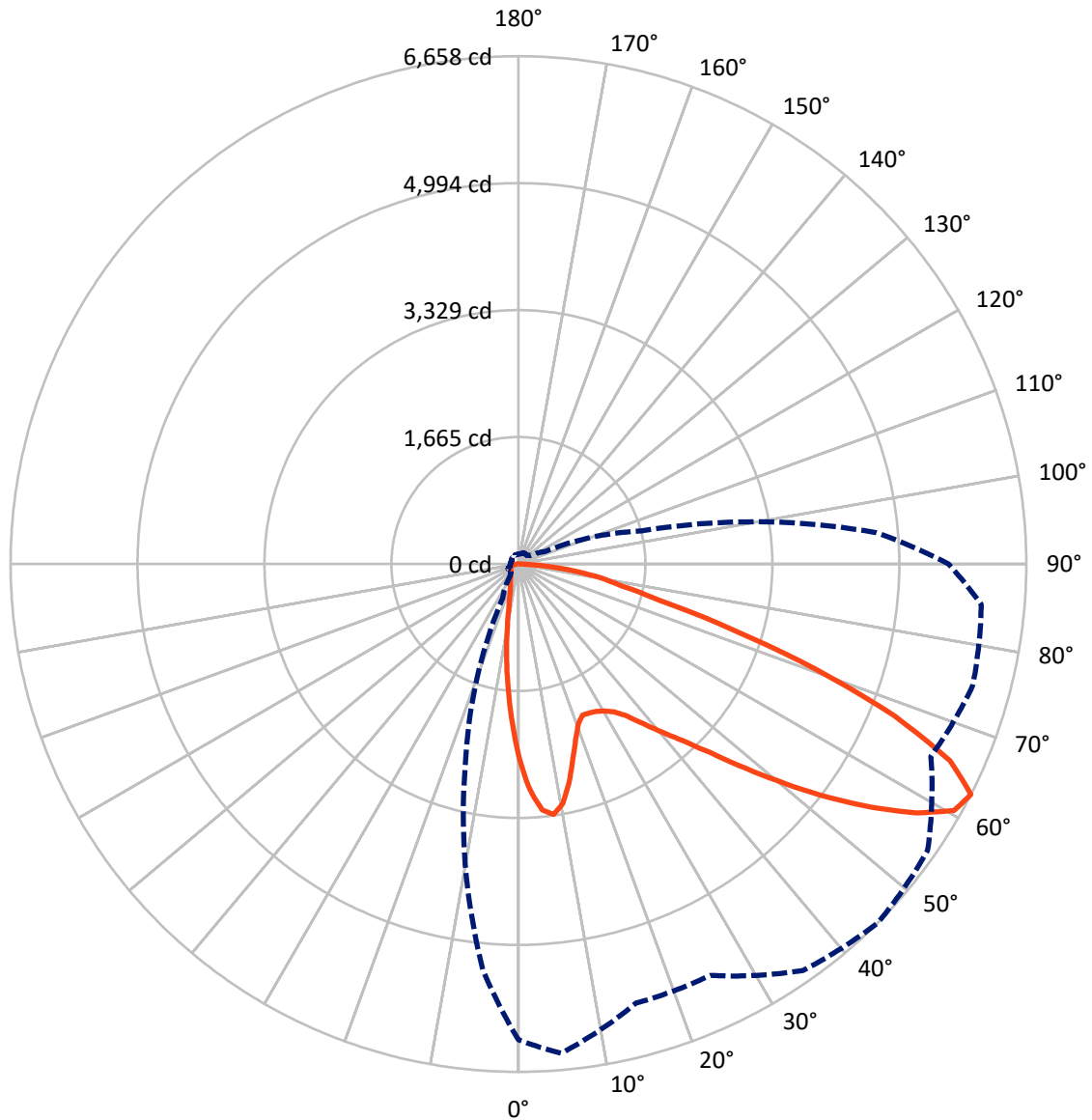


Based on 10 foot mounting height. Maximum calculated value = 30.5 fc
 Type IV - Short - Non-Cutoff

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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	1268.2	0.0	1268.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6395.2	0.0	6395.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	7663.4	0.0	7663.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	2.5
10°-20°	345.6	4.5
20°-30°	503.9	6.6
30°-40°	776.1	10.1
40°-50°	1142.2	14.9
50°-60°	1675.4	21.9
60°-70°	1872.8	24.4
70°-80°	916.9	12.0
80°-90°	242.1	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°	7663.4	100.0
0°-180°	7663.4	100.0



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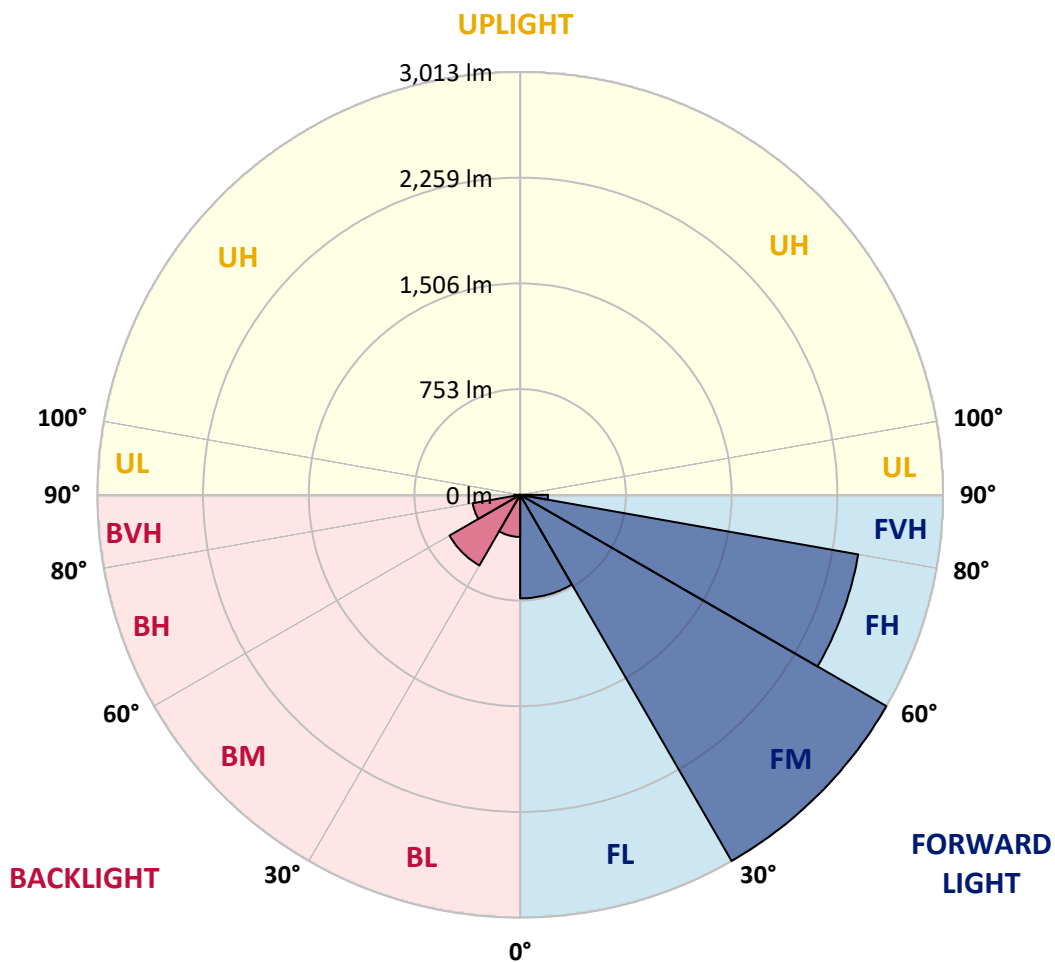
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.0	9.6			
FM (30°-60°)	3012.6	39.3			
FH (60°-80°)	2445.9	31.9			G2/5000
FVH (80°-90°)	198.8	2.6			G2/225
BL (0°-30°)	300.0	3.9	B1/500		
BM (30°-60°)	581.1	7.6	B1/1000		
BH (60°-80°)	343.8	4.5	B1/500		G1/500
BVH (80°-90°)	43.3	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°	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2
2.5°	2690.2	2733.3	2817.1	2879.7	2956.1	2973.7	2998.2	2974.2	2931.6	2875.1	2856.6
5°	2529.6	2621.6	2825.0	3004.0	3163.3	3237.4	3258.2	3197.0	3073.6	2911.3	2812.4
7.5°	2272.4	2402.8	2678.4	2942.0	3176.8	3315.4	3312.1	3170.1	2942.9	2678.8	2520.0
10°	2050.3	2199.4	2515.4	2810.3	3059.3	3193.7	3141.8	2960.3	2689.3	2385.2	2213.0
12.5°	1926.1	2072.2	2392.7	2688.9	2897.0	2943.3	2903.9	2726.0	2470.8	2163.2	2012.5
15°	1904.5	2065.1	2343.9	2585.0	2701.7	2661.1	2614.0	2534.4	2354.1	2091.7	1934.5
17.5°	1997.7	2174.5	2399.9	2512.4	2492.6	2422.3	2408.8	2417.7	2374.3	2171.3	1990.0
20°	2176.2	2388.7	2533.5	2478.3	2333.8	2236.9	2240.4	2375.6	2504.0	2373.1	2166.2
22.5°	2427.0	2669.1	2726.0	2496.4	2266.9	2151.8	2179.6	2398.7	2710.8	2667.8	2403.8
25°	2751.2	2972.0	2931.2	2562.1	2273.6	2162.4	2184.7	2478.8	2955.2	2962.8	2697.8
27.5°	3065.6	3270.3	3103.5	2649.3	2301.4	2187.3	2216.7	2604.6	3188.5	3282.9	3033.9
30°	3310.8	3453.2	3171.7	2729.1	2356.2	2235.7	2272.4	2724.3	3294.8	3499.1	3292.6
32.5°	3513.8	3616.1	3280.4	2827.5	2456.9	2311.9	2376.3	2869.6	3447.7	3704.6	3545.8
35°	3773.3	3802.3	3415.6	2937.5	2612.4	2444.6	2524.6	3012.0	3593.4	3912.3	3795.2
37.5°	4077.4	4039.9	3543.3	3088.0	2813.2	2652.2	2718.5	3168.3	3713.5	4147.8	4050.1
40°	4378.2	4288.1	3703.4	3321.3	3106.3	2897.0	2975.5	3335.1	3825.5	4383.6	4299.1
42.5°	4633.9	4500.4	3861.4	3577.8	3379.5	3167.1	3260.6	3503.3	3932.5	4585.0	4515.2
45°	4823.1	4657.2	4011.7	3824.3	3755.6	3525.9	3570.3	3695.7	4048.4	4753.1	4692.9
47.5°	4992.1	4814.6	4181.9	4072.8	4084.7	3992.7	3921.6	3919.9	4184.8	4890.6	4861.0
50°	5218.3	5033.4	4364.8	4328.9	4578.3	4517.2	4360.2	4181.5	4357.6	5046.4	5042.9
52.5°	5530.0	5379.6	4588.1	4604.9	5039.2	5079.2	4884.7	4495.7	4628.1	5332.3	5312.1
55°	5898.6	5811.0	4892.2	4922.2	5604.5	5633.2	5439.9	4888.8	5025.7	5746.5	5690.6
57.5°	6186.3	6167.9	5225.8	5303.0	6026.6	6155.5	5977.9	5343.7	5473.9	6095.3	5954.7
60°	6300.9	6390.6	5581.0	5687.1	6417.2	6560.1	6404.0	5743.6	5871.2	6239.8	5936.4
62.5°	6239.0	6439.5	5959.3	5950.5	6504.4	6658.1	6548.6	5966.1	6165.6	6090.7	5636.1
65°	5953.0	6263.8	6178.7	5882.6	6206.1	6218.7	6183.4	5866.7	6235.1	5619.3	5055.7
67.5°	5329.9	5777.3	5889.7	5301.3	5401.5	5319.4	5259.9	5322.3	5872.8	4912.8	4249.0
70°	4341.1	5014.3	5068.2	4240.1	4194.5	4139.4	4021.1	4363.4	5158.0	4026.5	3371.3
72.5°	3191.9	3899.7	4065.2	3109.8	2899.2	2910.6	2817.1	3288.4	4193.6	2990.9	2517.1
75°	2183.9	2823.7	3180.5	2169.9	1917.3	1921.8	1910.1	2330.1	3340.3	2080.7	1883.4
77.5°	1595.3	2017.5	2398.7	1458.8	1416.3	1390.1	1383.8	1630.3	2560.9	1510.7	1462.6
80°	1280.3	1490.5	1611.4	1011.0	1087.3	1085.2	1050.2	1120.9	1672.5	1104.9	1094.0
82.5°	888.1	1145.3	1305.4	792.5	733.8	721.6	730.1	835.0	1182.1	755.4	718.3
85°	468.5	760.9	1292.9	702.2	435.6	347.6	432.3	683.7	1024.1	400.3	350.5
87.5°	59.7	219.9	856.1	280.1	171.8	92.6	205.2	385.1	657.6	81.7	71.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2
2.5°	2809.0	2752.9	2679.6	2611.8	2541.6	2471.5	2380.1	2322.8	2283.3	2275.6	2258.9
5°	2740.8	2554.6	2413.8	2292.1	2181.8	2025.9	1939.5	1867.8	1829.6	1825.7	1816.6
7.5°	2426.1	2169.0	1979.1	1806.9	1650.5	1524.6	1385.5	1320.7	1294.2	1300.4	1306.8
10°	2098.8	1811.4	1593.2	1417.2	1279.4	1173.2	1061.5	986.2	934.0	923.4	921.3
12.5°	1859.5	1544.4	1332.5	1208.2	1101.6	1001.8	883.5	794.6	726.6	703.6	687.9
15°	1758.3	1413.8	1191.8	1057.8	940.3	813.4	703.6	610.4	548.1	527.8	516.4
17.5°	1779.8	1377.6	1094.9	923.4	773.0	640.8	502.2	422.6	385.1	375.3	375.3
20°	1892.8	1370.9	1014.8	799.6	612.1	458.8	344.9	299.6	287.3	286.0	289.4
22.5°	2051.2	1394.3	955.0	692.1	475.7	334.9	268.8	252.0	246.4	247.8	251.4
25°	2287.1	1473.9	911.6	596.6	373.2	274.3	239.7	229.5	227.0	230.4	235.0
27.5°	2566.7	1553.6	884.7	524.5	315.1	250.6	227.9	217.4	219.0	223.3	227.5
30°	2812.4	1618.9	842.2	473.0	297.0	252.0	227.9	213.5	211.9	212.8	213.9
32.5°	3032.7	1663.1	792.5	424.2	256.1	223.7	212.8	210.7	201.4	197.9	198.4
35°	3222.7	1663.1	762.5	395.6	229.5	198.4	180.6	170.1	165.6	165.9	170.6
37.5°	3406.0	1629.9	747.7	379.5	215.2	188.7	173.2	163.9	157.6	156.2	157.2
40°	3567.7	1581.5	731.0	372.8	204.4	182.8	168.2	160.4	153.8	151.6	152.1
42.5°	3697.5	1542.3	712.4	364.0	197.5	178.7	164.7	158.0	150.3	148.3	148.0
45°	3837.7	1529.3	687.9	346.2	201.0	179.0	163.9	156.8	149.1	146.7	145.7
47.5°	4022.7	1570.1	662.7	325.2	208.0	181.2	165.2	156.8	148.7	146.7	145.7
50°	4255.6	1666.1	630.6	294.5	201.0	187.0	164.7	155.4	148.7	146.7	144.9
52.5°	4554.8	1795.8	588.5	259.2	196.6	201.4	163.9	152.9	146.7	143.6	140.8
55°	4918.3	1902.0	538.4	230.1	187.0	197.5	162.7	149.9	143.2	139.0	136.5
57.5°	5184.6	1940.3	473.9	211.0	173.6	191.2	160.9	146.2	139.0	135.6	132.3
60°	5131.8	1866.1	419.6	199.2	165.6	172.7	159.7	142.8	135.3	132.7	129.7
62.5°	4710.3	1672.5	384.7	193.8	160.4	157.6	160.9	139.4	131.8	129.4	128.5
65°	4077.9	1386.4	370.7	192.5	156.2	148.7	149.6	135.6	128.1	125.9	125.1
67.5°	3363.9	1118.8	358.6	196.6	150.8	142.4	138.2	130.7	124.2	122.2	120.6
70°	2652.8	930.6	353.0	194.3	144.1	136.1	131.4	125.1	119.7	117.6	116.3
72.5°	2136.3	786.0	350.1	191.7	135.3	127.6	123.4	117.9	112.1	111.2	110.0
75°	1807.7	618.0	320.5	183.7	125.1	117.6	114.5	109.6	103.7	103.7	102.8
77.5°	1394.3	446.9	266.6	162.7	114.5	106.2	103.7	99.8	93.2	94.3	94.0
80°	1029.9	291.5	208.5	134.7	101.5	93.6	92.3	88.5	81.2	83.1	83.1
82.5°	705.6	191.2	149.9	110.4	86.7	79.2	79.2	75.4	67.5	68.2	70.7
85°	354.3	131.4	112.1	85.5	67.5	63.6	63.6	60.6	52.7	53.1	56.5
87.5°	107.8	79.2	74.1	61.1	48.5	47.6	45.5	43.4	38.4	37.9	40.1
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°	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2
2.5°	2233.1	2209.1	2180.0	2116.0	2094.6	2093.3	2112.6	2092.4	2131.1	2114.8	2132.8
5°	1800.9	1777.3	1744.9	1663.1	1613.4	1579.8	1563.8	1516.6	1550.7	1525.9	1546.5
7.5°	1324.6	1329.9	1308.4	1260.4	1152.2	1097.8	1065.7	1037.2	1062.1	1059.6	1099.0
10°	931.1	945.7	930.6	882.1	794.6	764.5	770.4	781.9	814.4	831.1	892.2
12.5°	670.2	669.3	659.7	616.2	558.6	562.0	586.0	605.7	635.7	653.3	715.7
15°	500.4	492.9	488.7	453.3	420.4	427.7	439.5	441.4	460.4	471.0	521.6
17.5°	378.2	382.0	386.7	361.5	336.5	332.0	322.8	311.4	316.8	318.9	344.2
20°	300.4	315.6	327.0	309.1	284.0	270.5	258.6	251.0	251.0	250.6	257.9
22.5°	262.5	273.4	285.7	273.4	250.6	238.9	232.1	226.3	225.4	225.4	232.1
25°	241.9	249.8	261.5	253.2	236.3	227.5	221.2	213.5	210.7	209.8	214.4
27.5°	231.8	235.0	240.9	233.4	219.0	214.9	213.2	206.4	202.7	200.5	205.2
30°	214.4	213.5	213.9	206.4	195.0	194.7	197.5	198.9	197.5	197.2	204.4
32.5°	198.4	196.6	196.3	189.5	179.0	176.4	179.0	181.5	184.5	188.7	197.2
35°	178.3	182.4	185.0	179.0	166.4	158.8	155.9	151.3	148.7	148.7	158.5
37.5°	162.1	171.8	175.7	170.1	156.2	145.7	140.8	139.9	140.2	141.9	151.3
40°	156.8	163.9	167.3	161.8	148.0	138.2	135.3	134.3	135.3	137.8	147.1
42.5°	153.3	158.5	158.0	151.3	139.9	133.0	131.4	130.7	131.4	133.9	144.1
45°	150.3	153.8	150.3	142.4	131.8	128.5	128.8	128.5	129.4	131.8	141.6
47.5°	148.0	149.1	144.9	136.9	125.9	125.1	126.8	128.1	128.8	131.1	141.2
50°	144.1	144.1	140.2	131.8	120.9	121.4	123.4	126.4	126.8	129.4	137.4
52.5°	139.4	139.0	136.5	128.5	116.7	117.9	117.9	121.4	122.2	125.1	133.6
55°	135.6	134.7	133.6	125.9	112.8	115.1	113.7	115.1	117.0	120.1	129.4
57.5°	132.3	130.7	130.7	123.8	110.0	110.9	107.8	109.6	112.1	114.5	124.2
60°	128.8	127.2	128.1	120.9	105.3	104.5	103.2	106.5	107.4	110.4	120.1
62.5°	125.1	123.8	124.2	117.6	102.0	99.8	99.8	102.8	103.2	107.4	116.7
65°	122.2	120.6	120.1	114.2	98.2	95.6	96.8	98.2	99.1	103.2	112.1
67.5°	119.3	115.8	115.8	111.2	94.0	91.4	94.0	93.6	94.9	98.5	105.7
70°	115.4	110.9	111.2	109.1	89.7	86.7	88.9	88.5	89.3	91.8	99.1
72.5°	109.6	105.7	106.5	105.7	85.5	81.2	82.1	82.1	82.1	84.3	91.8
75°	102.0	99.1	101.5	103.7	80.5	74.6	75.4	75.4	74.1	75.4	84.7
77.5°	92.6	91.0	99.4	96.5	74.6	67.5	67.5	66.6	64.0	65.8	75.8
80°	82.6	81.2	91.8	80.8	67.8	58.6	57.8	55.7	53.1	54.3	64.5
82.5°	72.0	70.7	77.1	62.0	58.6	48.5	46.4	42.6	40.1	41.3	50.6
85°	59.0	59.0	59.4	46.7	44.6	37.1	34.6	29.5	26.5	27.4	36.2
87.5°	42.1	43.4	40.1	32.0	26.5	20.7	19.0	16.0	13.5	15.6	19.0
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°	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2	2589.2
2.5°	2225.6	2272.0	2324.5	2391.9	2449.7	2544.4	2635.4	2690.2
5°	1664.0	1741.2	1837.2	1960.6	2075.5	2248.3	2419.8	2529.6
7.5°	1191.0	1273.4	1377.1	1531.3	1693.9	1914.3	2140.9	2272.4
10°	985.4	1070.1	1157.2	1261.3	1394.3	1634.0	1902.0	2050.3
12.5°	815.1	905.8	999.6	1109.1	1232.7	1446.6	1755.4	1926.1
15°	624.0	725.0	835.9	974.4	1129.0	1376.3	1719.1	1904.5
17.5°	427.7	540.5	676.6	847.6	1036.7	1353.6	1784.0	1997.7
20°	294.5	376.6	521.9	722.4	950.0	1350.6	1908.8	2176.2
22.5°	246.4	283.1	389.2	607.4	884.7	1386.9	2102.2	2427.0
25°	227.9	249.8	311.0	507.6	837.1	1470.3	2368.4	2751.2
27.5°	216.9	236.8	282.2	442.3	799.6	1567.2	2627.5	3065.6
30°	221.2	241.4	274.3	409.1	748.6	1648.0	2857.5	3310.8
32.5°	199.2	208.0	235.0	379.5	711.9	1715.9	3058.8	3513.8
35°	169.8	185.4	209.8	365.7	712.7	1761.3	3278.4	3773.3
37.5°	161.8	177.3	195.0	360.6	722.4	1809.7	3530.2	4077.4
40°	156.8	171.0	186.2	357.6	731.7	1854.0	3777.2	4378.2
42.5°	153.3	166.4	185.4	347.6	736.4	1893.5	3980.1	4633.9
45°	152.9	166.4	188.7	337.5	743.5	1936.1	4150.3	4823.1
47.5°	153.3	171.8	182.4	325.2	743.5	2007.4	4350.0	4992.1
50°	151.6	181.2	175.7	307.9	726.3	2142.2	4623.8	5218.3
52.5°	150.8	179.9	162.7	281.3	696.4	2356.2	4974.8	5530.0
55°	148.7	173.6	153.3	241.9	661.4	2589.5	5350.6	5898.6
57.5°	146.7	153.8	148.3	207.2	607.4	2753.8	5609.1	6186.3
60°	164.3	134.3	144.1	190.4	535.4	2798.8	5599.0	6300.9
62.5°	152.1	125.9	138.6	186.6	484.8	2672.5	5340.5	6239.0
65°	119.3	120.6	133.0	197.5	471.4	2337.6	4882.1	5953.0
67.5°	109.1	115.1	127.6	211.6	472.7	1871.7	4197.2	5329.9
70°	102.8	109.1	121.4	218.6	476.0	1395.2	3318.2	4341.1
72.5°	95.6	101.1	114.2	219.9	454.2	1013.6	2557.6	3191.9
75°	87.1	92.3	104.1	191.7	376.2	703.2	1956.4	2183.9
77.5°	77.6	81.2	91.4	148.0	279.4	450.0	1468.5	1595.3
80°	66.1	68.2	76.6	108.2	191.2	281.3	1161.9	1280.3
82.5°	53.1	53.9	59.4	81.2	124.2	180.6	778.1	888.1
85°	37.5	37.5	40.9	59.0	84.7	114.5	422.6	468.5
87.5°	17.6	18.1	18.1	32.3	44.2	58.1	97.2	59.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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