

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: P200006

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200006
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-SLR-7030-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 8531 lumens
Efficiency: N/A
Efficacy: 99.2 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

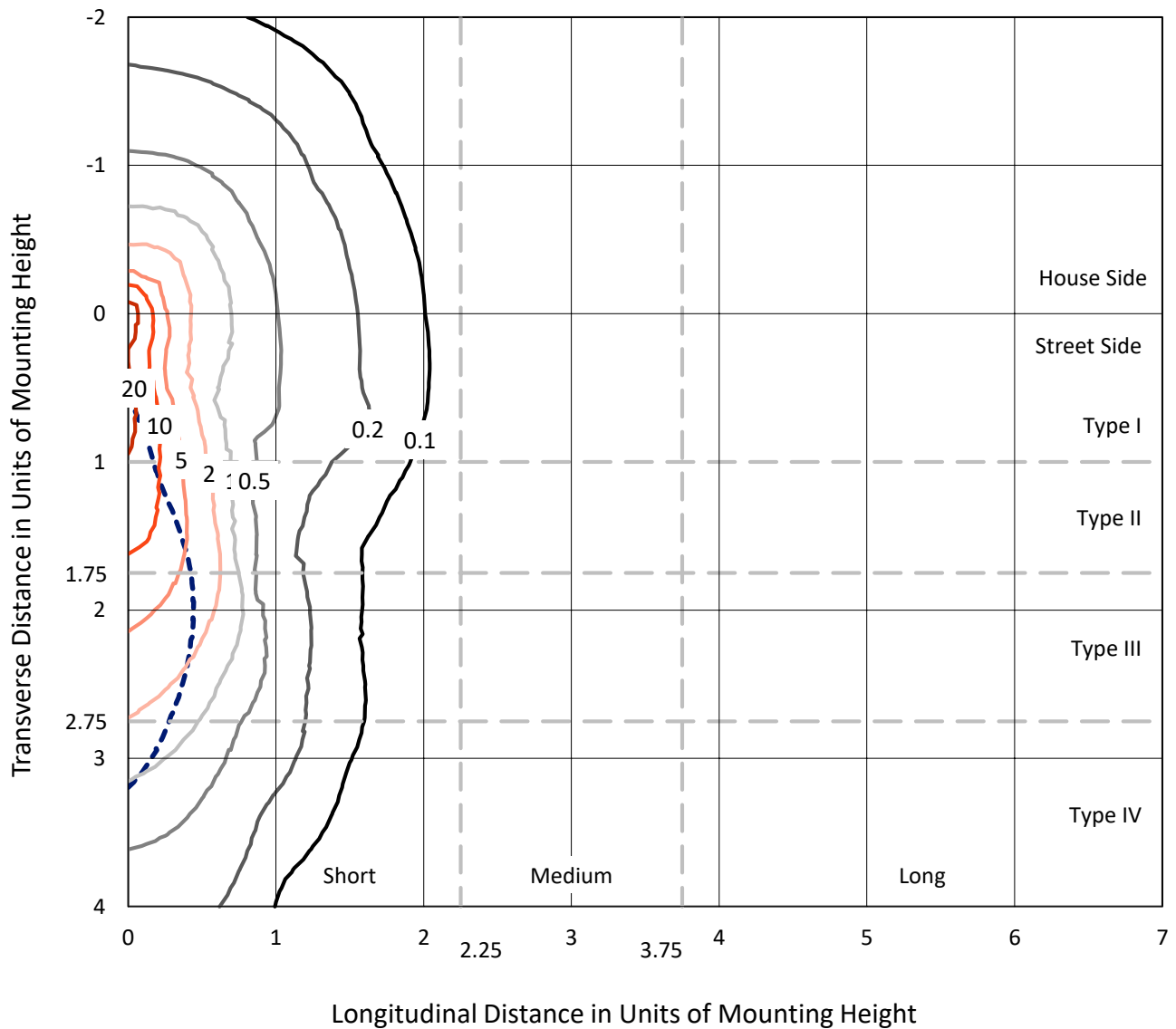


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

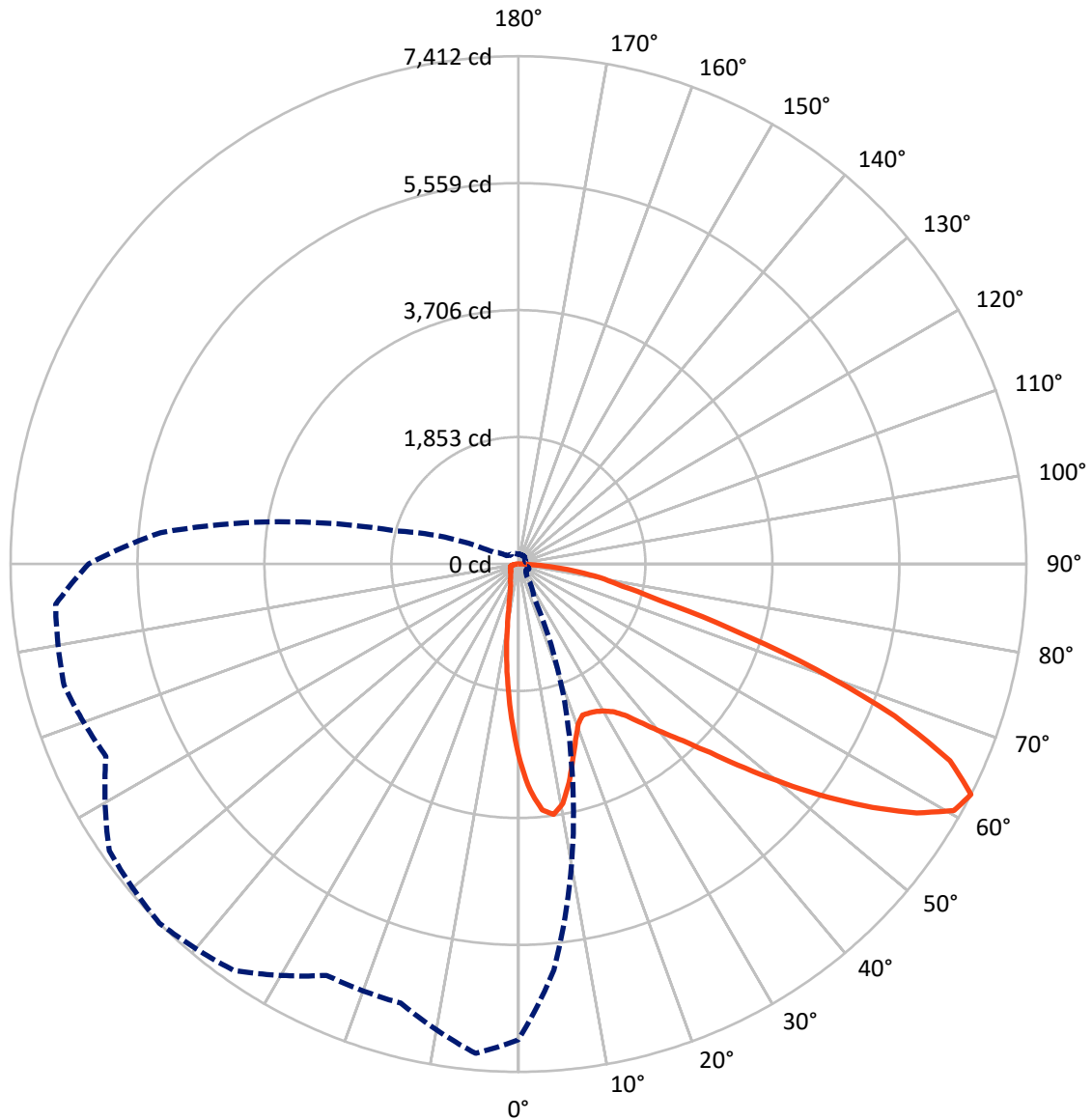


Based on 10 foot mounting height. Maximum calculated value = 28.8 fc
 Type IV - Short - Non-Cutoff

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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	1411.8	0.0	1411.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7119.2	0.0	7119.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	8531.0	0.0	8531.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	2.5
10°-20°	384.7	4.5
20°-30°	561.0	6.6
30°-40°	863.9	10.1
40°-50°	1271.5	14.9
50°-60°	1865.0	21.9
60°-70°	2084.8	24.4
70°-80°	1020.7	12.0
80°-90°	269.5	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°	8531.0	100.0
0°-180°	8531.0	100.0



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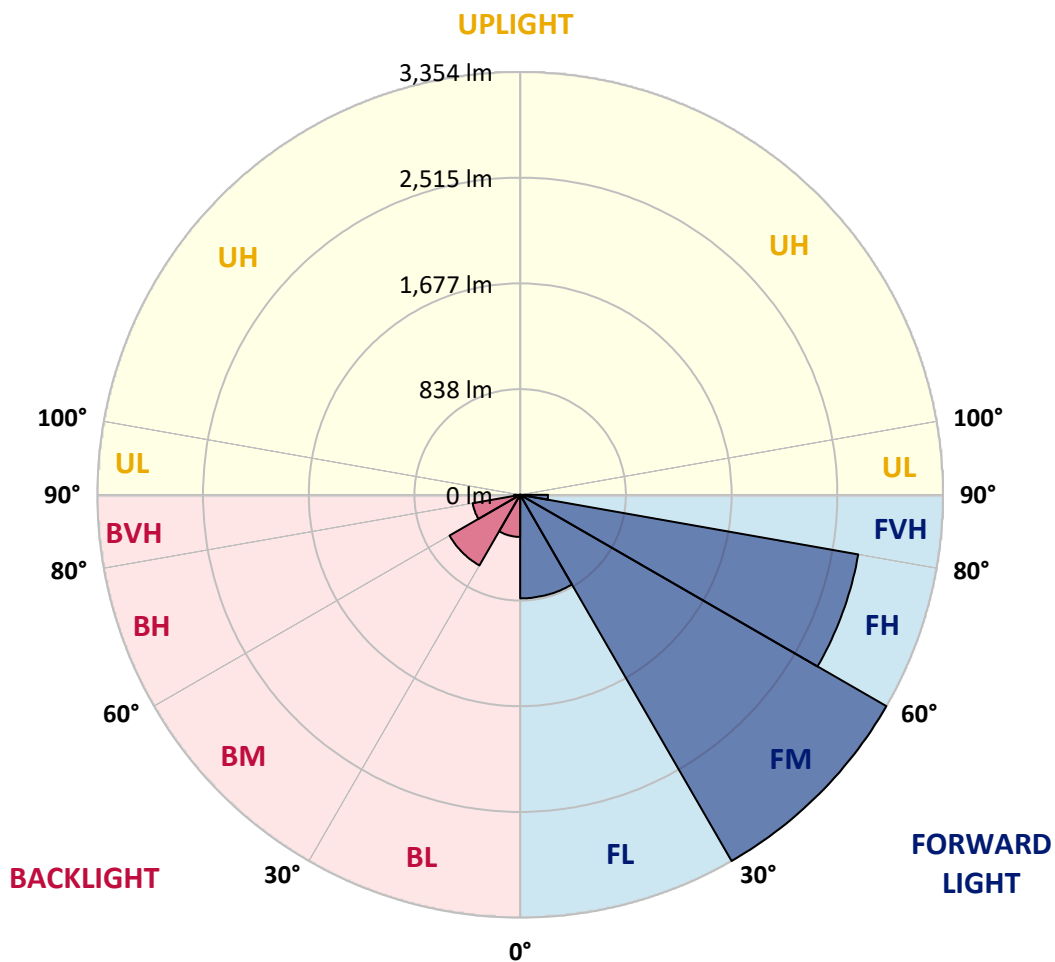
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.5	9.6			
FM (30°-60°)	3353.6	39.3			
FH (60°-80°)	2722.8	31.9			G2/5000
FVH (80°-90°)	221.3	2.6			G2/225
BL (0°-30°)	334.0	3.9	B1/500		
BM (30°-60°)	646.9	7.6	B1/1000		
BH (60°-80°)	382.7	4.5	B1/500		G1/500
BVH (80°-90°)	48.2	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°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	2994.8	2933.8	2832.5	2727.0	2662.7	2587.7	2529.2	2477.5	2374.3	2354.2	2372.4
5°	2816.0	2693.7	2502.8	2310.5	2182.6	2045.2	1938.3	1852.4	1721.6	1698.6	1726.2
7.5°	2529.6	2383.3	2131.0	1885.7	1704.7	1533.0	1417.6	1325.8	1223.4	1179.5	1182.3
10°	2282.4	2117.3	1819.0	1552.2	1404.1	1288.2	1191.2	1096.9	993.2	925.2	906.6
12.5°	2144.1	1954.1	1610.4	1372.2	1234.7	1112.8	1008.3	907.4	796.7	727.3	707.7
15°	2120.1	1913.7	1532.1	1256.8	1084.7	930.5	807.1	694.6	580.6	524.3	512.5
17.5°	2223.8	1986.0	1506.8	1154.1	943.6	753.2	601.7	476.1	383.2	355.0	352.7
20°	2422.6	2124.9	1503.5	1057.5	804.2	581.0	419.2	327.8	287.1	279.0	279.4
22.5°	2701.7	2340.2	1543.9	984.9	676.2	433.3	315.1	274.3	258.4	250.9	250.9
25°	3062.7	2636.5	1636.7	931.9	565.1	346.2	278.1	253.7	238.7	233.5	234.5
27.5°	3412.6	2924.9	1744.6	890.1	492.4	314.2	263.6	241.5	228.4	223.2	225.6
30°	3685.6	3181.0	1834.6	833.3	455.4	305.3	268.7	246.2	227.5	219.5	219.9
32.5°	3911.6	3405.1	1910.1	792.5	422.5	261.6	231.6	221.8	219.5	210.1	205.4
35°	4200.5	3649.5	1960.7	793.4	407.1	233.5	206.4	189.0	176.4	165.5	165.5
37.5°	4539.0	3929.8	2014.6	804.2	401.4	217.1	197.4	180.1	168.4	158.0	156.1
40°	4873.8	4204.8	2063.9	814.5	398.1	207.3	190.4	174.5	163.7	153.4	150.6
42.5°	5158.5	4430.7	2107.9	819.8	386.9	206.4	185.2	170.7	160.4	149.1	146.3
45°	5369.1	4620.1	2155.3	827.7	375.7	210.1	185.2	170.2	157.6	146.7	144.0
47.5°	5557.2	4842.5	2234.6	827.7	362.0	203.1	191.3	170.7	157.2	145.9	143.4
50°	5809.0	5147.3	2384.7	808.5	342.8	195.6	201.7	168.8	152.9	144.0	141.2
52.5°	6156.0	5538.0	2622.9	775.2	313.2	181.1	200.3	167.9	148.7	139.3	136.0
55°	6566.4	5956.3	2882.7	736.3	269.3	170.7	193.2	165.5	144.0	133.7	130.3
57.5°	6886.6	6244.1	3065.6	676.2	230.7	165.1	171.2	163.3	138.3	127.5	124.8
60°	7014.2	6232.9	3115.7	596.0	212.0	160.4	149.5	182.9	133.7	122.9	119.6
62.5°	6945.3	5945.1	2975.0	539.7	207.7	154.3	140.2	169.3	129.9	119.6	114.9
65°	6626.9	5434.8	2602.2	524.8	219.9	148.1	134.2	132.8	124.8	114.9	110.3
67.5°	5933.3	4672.3	2083.6	526.2	235.5	142.1	128.1	121.5	117.7	109.7	105.6
70°	4832.6	3693.9	1553.2	529.9	243.4	135.1	121.5	114.4	110.3	102.2	99.4
72.5°	3553.3	2847.1	1128.3	505.6	244.8	127.1	112.5	106.4	102.2	93.8	91.4
75°	2431.1	2177.9	782.8	418.8	213.4	115.9	102.7	97.0	94.3	83.9	82.5
77.5°	1775.9	1634.7	500.9	311.0	164.7	101.7	90.4	86.4	84.4	73.2	71.2
80°	1425.2	1293.4	313.2	212.9	120.5	85.3	75.9	73.6	71.8	60.5	59.1
82.5°	988.6	866.2	201.1	138.3	90.4	66.1	60.0	59.1	56.3	46.0	44.6
85°	521.5	470.4	127.5	94.3	65.7	45.5	41.7	41.7	40.3	30.5	29.5
87.5°	66.5	108.2	64.7	49.2	36.0	20.2	20.2	19.6	21.1	17.4	15.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	2329.3	2351.8	2330.3	2331.7	2355.6	2426.8	2459.2	2485.9	2514.6	2533.2	2541.8
5°	1688.3	1740.8	1758.6	1796.1	1851.4	1942.4	1978.5	2004.8	2022.2	2032.4	2036.7
7.5°	1154.6	1186.4	1222.1	1282.6	1403.1	1456.5	1480.5	1474.5	1454.7	1447.6	1440.7
10°	870.4	857.6	851.1	884.5	982.0	1035.9	1052.8	1036.5	1025.6	1027.9	1039.7
12.5°	674.3	652.3	625.6	621.8	686.0	734.4	745.1	746.1	765.8	783.2	808.9
15°	491.4	489.2	476.1	468.0	504.6	544.0	548.7	557.1	574.9	587.6	610.1
17.5°	346.6	359.3	369.6	374.6	402.4	430.5	425.3	421.0	417.8	417.8	428.7
20°	279.4	287.9	301.1	316.1	344.1	364.0	351.3	334.4	322.2	318.4	319.8
22.5°	251.9	258.4	265.9	279.0	304.4	318.0	304.4	292.2	279.9	275.8	274.3
25°	237.7	246.2	253.3	263.1	281.9	291.1	278.1	269.3	261.6	256.5	252.7
27.5°	229.8	237.3	239.2	243.8	259.8	268.2	261.6	258.0	253.3	248.6	243.8
30°	221.4	219.9	216.7	217.1	229.8	238.1	237.7	238.7	238.1	236.9	235.9
32.5°	202.1	199.3	196.4	199.3	211.0	218.5	218.9	220.9	220.9	220.3	224.2
35°	168.4	173.5	176.8	185.2	199.3	205.9	203.1	198.5	189.9	184.7	184.3
37.5°	155.7	156.7	162.2	173.9	189.4	195.6	191.3	180.5	175.0	173.9	175.4
40°	149.5	150.6	153.8	164.7	180.1	186.2	182.5	174.5	169.3	168.8	171.2
42.5°	145.5	146.3	148.1	155.7	168.4	175.9	176.4	170.7	164.7	165.1	167.3
45°	143.0	143.4	143.0	146.7	158.5	167.3	171.2	167.3	162.2	163.3	166.0
47.5°	142.6	141.2	139.3	140.2	152.4	161.3	166.0	164.7	162.2	163.3	165.5
50°	140.7	137.4	135.1	134.6	146.7	156.1	160.4	160.4	161.3	163.3	165.5
52.5°	135.1	131.3	131.3	129.9	143.0	152.0	154.7	155.2	156.7	159.9	163.3
55°	128.1	126.6	128.1	125.6	140.2	148.7	150.0	151.0	152.0	154.7	159.4
57.5°	122.0	120.0	123.4	122.4	137.8	145.5	145.5	147.3	147.3	151.0	154.7
60°	118.6	114.9	116.3	117.2	134.6	142.6	141.6	143.4	144.4	147.7	150.6
62.5°	114.4	111.1	111.1	113.5	130.9	138.3	137.8	139.3	143.0	144.0	146.7
65°	109.3	107.8	106.4	109.3	127.1	133.7	134.2	136.0	139.3	140.2	142.6
67.5°	104.2	104.6	101.7	104.6	123.8	128.9	128.9	132.8	134.2	136.0	138.3
70°	98.5	99.0	96.5	99.9	121.5	123.8	123.4	128.5	129.5	130.9	133.2
72.5°	91.4	91.4	90.4	95.2	117.7	118.6	117.7	122.0	122.4	123.8	124.8
75°	83.9	83.9	83.0	89.6	115.4	113.0	110.3	113.5	114.4	115.4	115.4
77.5°	74.1	75.1	75.1	83.0	107.4	110.7	101.3	103.1	104.6	105.0	103.7
80°	62.0	64.3	65.2	75.5	90.0	102.2	90.4	91.9	92.5	92.5	90.4
82.5°	47.4	51.6	54.0	65.2	69.0	85.8	78.7	80.2	78.7	75.9	75.1
85°	32.8	38.5	41.3	49.7	52.0	66.1	65.7	65.7	62.9	59.1	58.7
87.5°	17.8	21.1	23.0	29.5	35.6	44.6	48.3	46.9	44.6	42.2	42.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	2585.8	2649.6	2751.3	2829.3	2907.5	2983.0	3064.6	3127.0	3180.0	3200.6	3263.5
5°	2079.3	2159.1	2255.2	2428.8	2551.6	2687.1	2843.8	3051.1	3130.8	3240.9	3421.6
7.5°	1470.2	1542.4	1697.2	1837.4	2011.4	2203.2	2414.6	2700.8	2805.3	2982.1	3276.1
10°	1097.8	1181.7	1306.0	1424.2	1577.6	1773.6	2016.5	2336.4	2463.5	2655.2	2993.8
12.5°	884.5	983.5	1115.2	1226.3	1345.0	1483.3	1719.2	2070.0	2240.3	2408.1	2750.5
15°	679.5	783.2	905.5	1046.7	1177.6	1326.7	1573.8	1957.4	2153.5	2328.5	2620.6
17.5°	470.4	559.0	713.3	860.5	1027.9	1218.8	1533.5	1981.3	2215.3	2417.1	2643.1
20°	333.5	384.0	510.7	681.4	890.1	1129.7	1526.1	2107.1	2411.4	2641.7	2787.5
22.5°	280.5	299.2	372.8	529.5	770.5	1063.1	1552.2	2283.4	2675.9	2969.8	3017.7
25°	255.5	266.8	305.3	415.5	664.1	1014.8	1640.8	2546.0	3003.2	3298.2	3289.8
27.5°	242.0	253.7	279.0	350.8	583.9	984.9	1729.5	2857.3	3377.4	3654.6	3549.5
30°	237.7	253.7	280.5	330.6	526.6	937.5	1802.2	3130.8	3665.4	3895.2	3667.8
32.5°	234.5	236.9	249.0	285.1	472.2	882.2	1851.4	3376.0	3947.2	4124.0	3838.0
35°	189.4	201.1	220.9	255.5	440.4	848.8	1851.4	3587.5	4224.8	4355.2	4000.2
37.5°	182.5	192.8	210.1	239.6	422.5	832.4	1814.4	3791.6	4508.6	4617.4	4133.9
40°	178.6	187.2	203.5	227.5	415.0	813.7	1760.5	3971.6	4785.8	4879.9	4258.6
42.5°	175.9	183.3	198.9	219.9	405.2	793.0	1716.9	4116.1	5026.3	5104.1	4377.7
45°	174.5	182.5	199.3	223.7	385.4	765.8	1702.4	4272.2	5224.2	5291.2	4506.7
47.5°	174.5	183.9	201.7	231.6	362.0	737.7	1747.8	4478.1	5411.3	5444.2	4658.6
50°	173.0	183.3	208.2	223.7	327.8	702.0	1854.7	4737.4	5613.8	5617.7	4850.9
52.5°	170.2	182.5	224.2	218.9	288.5	655.1	1999.1	5070.4	5913.5	5936.0	5152.0
55°	166.9	181.1	219.9	208.2	256.1	599.3	2117.3	5475.1	6334.8	6397.0	5594.6
57.5°	162.7	179.1	212.9	193.2	234.9	527.6	2160.0	5771.5	6628.8	6785.3	6093.6
60°	159.0	177.8	192.3	184.3	221.8	467.1	2077.4	5712.8	6608.5	6946.2	6535.9
62.5°	155.2	179.1	175.4	178.6	215.7	428.2	1861.8	5243.5	6274.2	6780.2	6863.6
65°	151.0	166.5	165.5	173.9	214.3	412.7	1543.4	4539.5	5628.0	6255.4	6941.0
67.5°	145.5	153.8	158.5	167.9	218.9	399.2	1245.5	3744.7	4730.0	5469.0	6537.7
70°	139.3	146.3	151.5	160.4	216.3	393.0	1035.9	2953.1	3753.0	4482.3	5741.9
72.5°	131.3	137.4	142.1	150.6	213.4	389.7	875.0	2378.1	2802.1	3329.5	4668.4
75°	122.0	127.5	130.9	139.3	204.5	356.8	688.0	2012.3	2096.6	2316.2	3718.4
77.5°	111.1	115.4	118.2	127.5	181.1	296.8	497.5	1552.2	1628.2	1681.7	2850.8
80°	98.5	102.7	104.2	113.0	150.0	232.1	324.5	1146.5	1217.9	1230.0	1861.8
82.5°	83.9	88.2	88.2	96.5	122.9	166.9	212.9	785.5	799.6	840.9	1315.9
85°	67.5	70.8	70.8	75.1	95.2	124.8	146.3	394.4	390.2	445.6	1140.0
87.5°	48.3	50.7	53.0	54.0	68.0	82.5	88.2	120.0	79.2	91.0	732.0
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°	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3	2882.3
2.5°	3310.9	3337.6	3310.3	3290.7	3205.7	3136.0	3042.7	2994.8
5°	3558.9	3627.0	3603.9	3521.4	3344.1	3144.8	2918.4	2816.0
7.5°	3529.0	3687.0	3690.7	3536.4	3275.1	2981.6	2674.8	2529.6
10°	3295.4	3497.5	3555.2	3405.6	3128.4	2800.2	2448.4	2282.4
12.5°	3034.6	3232.6	3276.5	3225.0	2993.3	2663.6	2306.8	2144.1
15°	2821.3	2909.9	2962.4	3007.5	2877.6	2609.3	2298.9	2120.1
17.5°	2691.4	2681.5	2696.5	2774.8	2796.8	2671.6	2420.7	2223.8
20°	2644.5	2494.0	2490.1	2598.0	2758.9	2820.3	2659.1	2422.6
22.5°	2670.3	2426.4	2395.4	2523.5	2779.0	3034.6	2971.3	2701.7
25°	2759.4	2432.0	2407.2	2531.0	2852.2	3263.0	3308.5	3062.7
27.5°	2899.5	2467.6	2434.9	2561.9	2949.2	3454.8	3640.5	3412.6
30°	3032.7	2529.6	2488.8	2622.9	3038.0	3530.8	3844.1	3685.6
32.5°	3194.5	2645.3	2573.6	2735.0	3147.6	3651.8	4025.5	3911.6
35°	3353.0	2810.4	2721.3	2908.1	3270.0	3802.3	4232.8	4200.5
37.5°	3527.0	3026.2	2952.5	3131.7	3437.6	3944.4	4497.3	4539.0
40°	3712.7	3312.3	3225.0	3458.0	3697.3	4122.6	4773.5	4873.8
42.5°	3899.9	3629.7	3525.6	3762.1	3982.8	4298.5	5009.9	5158.5
45°	4114.1	3974.5	3925.1	4180.8	4257.2	4465.9	5184.4	5369.1
47.5°	4363.7	4365.6	4444.7	4547.1	4533.9	4655.3	5359.7	5557.2
50°	4654.9	4853.8	5028.6	5096.6	4819.0	4858.9	5603.2	5809.0
52.5°	5004.7	5437.7	5654.2	5609.7	5126.2	5107.5	5988.6	6156.0
55°	5442.3	6055.7	6270.9	6239.0	5479.4	5446.0	6468.8	6566.4
57.5°	5948.7	6654.6	6852.4	6708.9	5903.3	5817.4	6866.1	6886.6
60°	6393.8	7129.0	7302.7	7143.7	6330.9	6212.8	7114.1	7014.2
62.5°	6641.5	7290.0	7411.9	7240.7	6624.1	6633.9	7168.5	6945.3
65°	6530.8	6883.4	6922.7	6908.7	6548.6	6878.2	6972.9	6626.9
67.5°	5924.8	5855.4	5921.6	6013.0	5901.4	6556.5	6431.3	5933.3
70°	4857.4	4476.3	4608.0	4669.4	4720.1	5642.0	5582.0	4832.6
72.5°	3660.7	3136.0	3240.1	3227.4	3461.9	4525.4	4341.2	3553.3
75°	2593.9	2126.3	2139.4	2134.3	2415.6	3540.6	3143.4	2431.1
77.5°	1814.9	1540.5	1547.5	1576.6	1624.0	2670.3	2245.9	1775.9
80°	1247.8	1169.1	1208.1	1210.4	1125.5	1793.8	1659.2	1425.2
82.5°	929.5	812.7	803.3	816.9	882.2	1453.2	1275.0	988.6
85°	761.1	481.2	386.9	484.9	781.7	1439.3	847.0	521.5
87.5°	428.7	228.4	103.1	191.3	311.8	953.0	244.8	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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