

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: P200326

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200326  
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-7050-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5000K, 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: 8821 lumens  
Efficiency: N/A  
Efficacy: 102.6 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 - G3

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

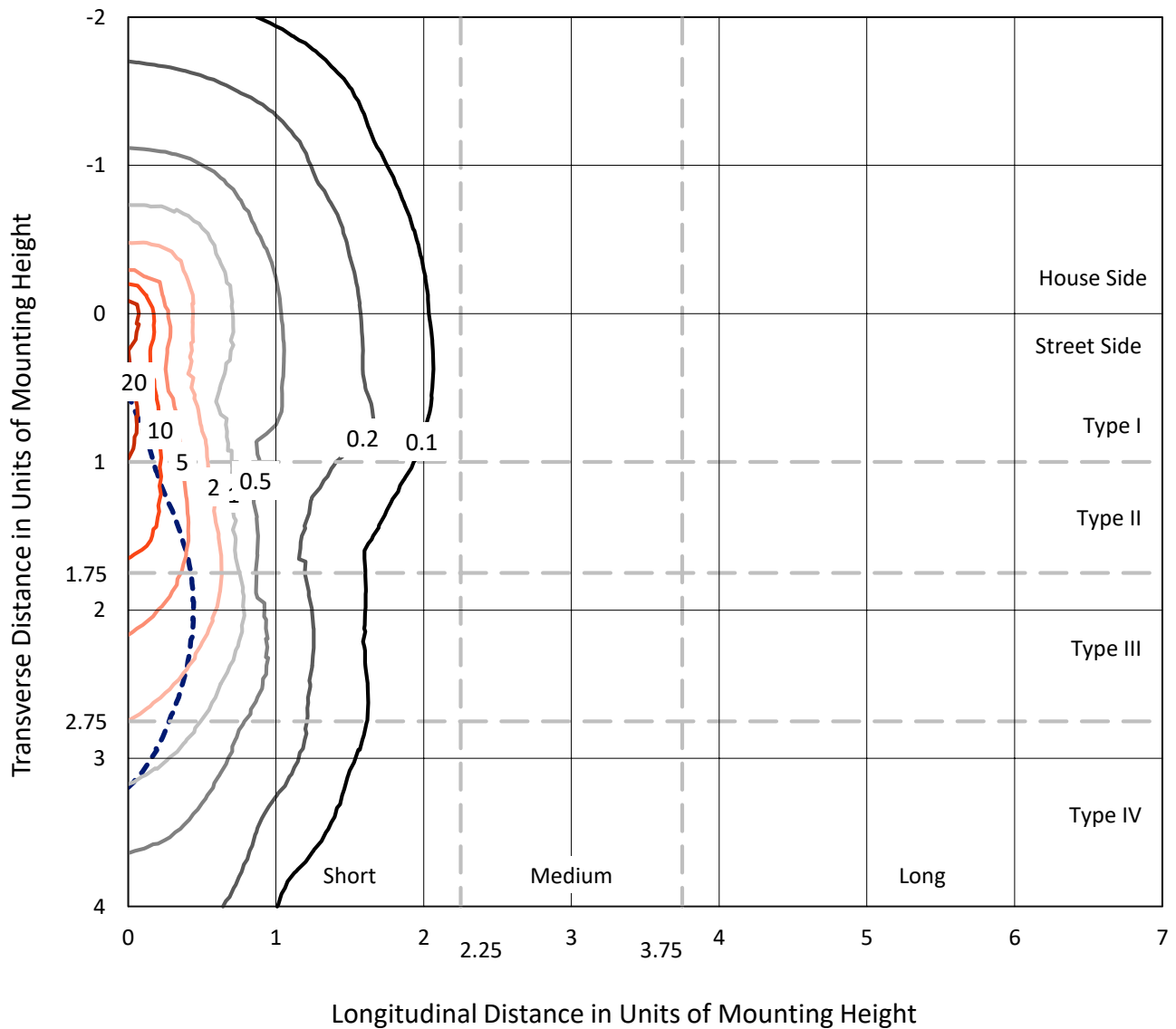


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### Iso-Footcandle Lines of Horizontal Illumination

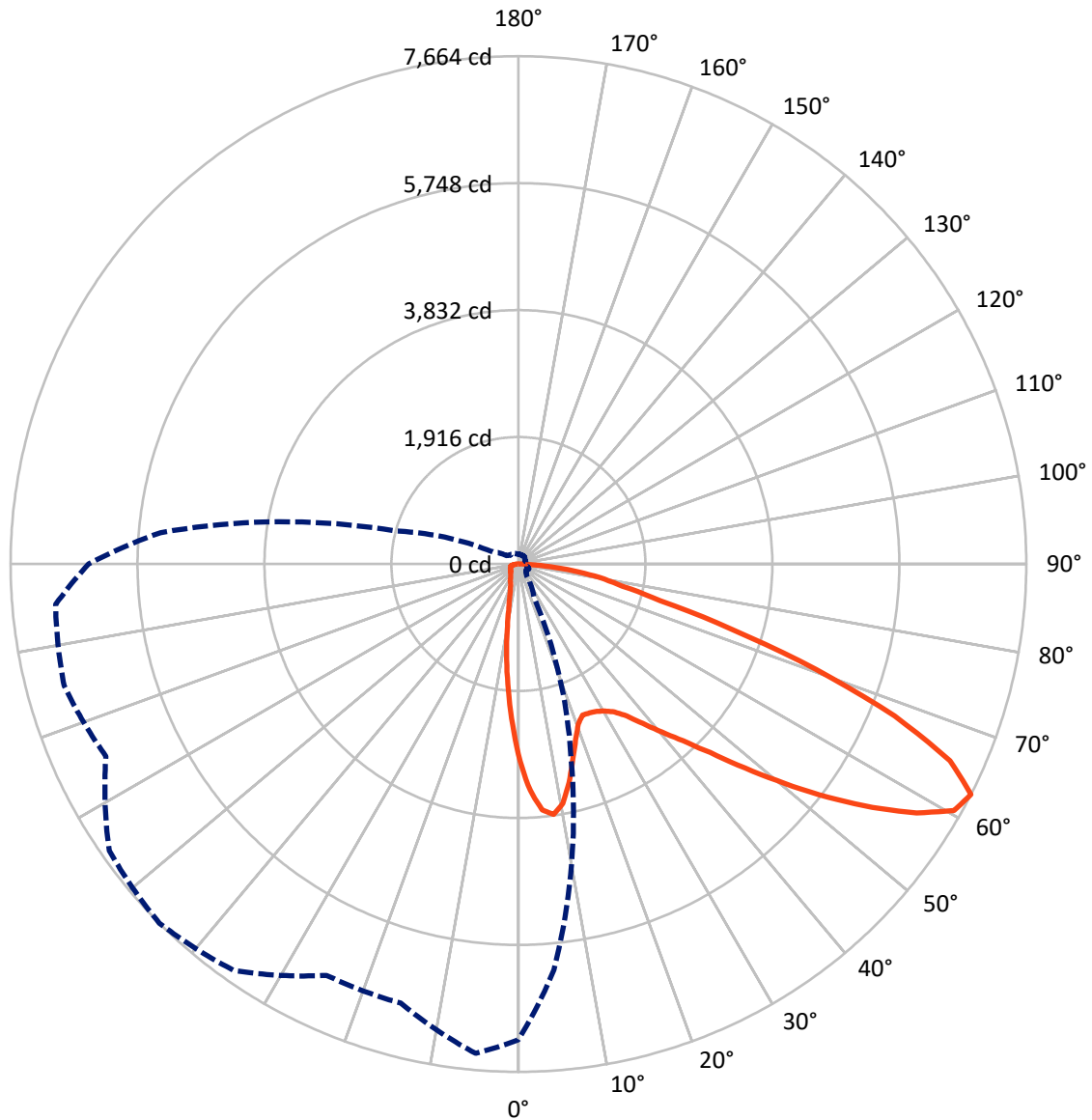
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.8 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
<b>House Side</b>	Lumens	1459.7	0.0	1459.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7361.2	0.0	7361.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8821.0	0.0	8821.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.9	2.5
10°-20°	397.8	4.5
20°-30°	580.0	6.6
30°-40°	893.3	10.1
40°-50°	1314.7	14.9
50°-60°	1928.4	21.9
60°-70°	2155.7	24.4
70°-80°	1055.4	12.0
80°-90°	278.7	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°	8821.0	100.0
0°-180°	8821.0	100.0



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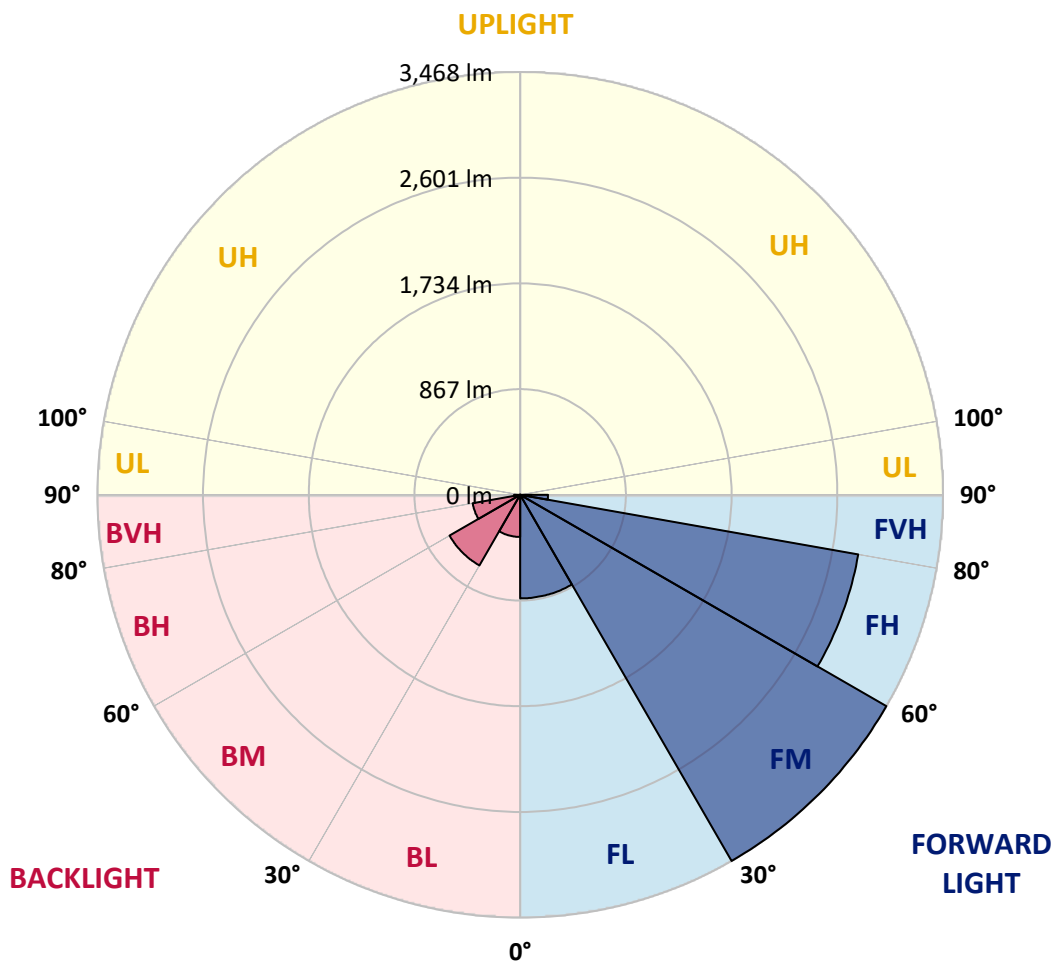
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	849.4	9.6			
FM	(30°-60°)	3467.6	39.3			
FH	(60°-80°)	2815.4	31.9			G2/5000
FVH	(80°-90°)	228.8	2.6			G3/500
BL	(0°-30°)	345.4	3.9	B1/500		
BM	(30°-60°)	668.9	7.6	B1/1000		
BH	(60°-80°)	395.7	4.5	B1/500		G1/500
BVH	(80°-90°)	49.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	3096.6	3033.5	2928.8	2819.7	2753.3	2675.7	2615.1	2561.7	2455.1	2434.2	2453.1
5°	2911.8	2785.3	2587.9	2389.1	2256.7	2114.7	2004.1	1915.4	1780.1	1756.3	1784.9
7.5°	2615.6	2464.3	2203.4	1949.8	1762.6	1585.1	1465.9	1370.8	1265.1	1219.5	1222.4
10°	2360.0	2189.3	1880.9	1605.0	1451.8	1332.0	1231.7	1134.2	1027.0	956.7	937.3
12.5°	2217.0	2020.6	1665.2	1418.8	1276.7	1150.7	1042.5	938.3	823.8	752.1	731.7
15°	2192.2	1978.9	1584.2	1299.5	1121.6	962.0	834.5	718.1	600.3	542.1	530.0
17.5°	2299.4	2053.6	1558.0	1193.3	975.6	778.8	622.1	492.2	396.2	367.1	364.6
20°	2505.0	2197.1	1554.6	1093.5	831.6	600.8	433.5	338.9	296.8	288.5	289.0
22.5°	2793.5	2419.7	1596.3	1018.3	699.2	448.0	325.9	283.7	267.2	259.4	259.4
25°	3166.9	2726.1	1692.3	963.5	584.3	357.9	287.5	262.3	246.8	241.5	242.5
27.5°	3528.6	3024.3	1803.8	920.3	509.1	324.9	272.5	249.7	236.1	230.8	233.2
30°	3810.8	3289.1	1896.9	861.7	470.8	315.7	277.8	254.6	235.2	226.9	227.4
32.5°	4044.6	3520.9	1975.0	819.5	436.9	270.6	239.5	229.4	226.9	217.2	212.4
35°	4343.3	3773.5	2027.4	820.5	420.9	241.5	213.4	195.4	182.3	171.2	171.2
37.5°	4693.4	4063.5	2083.1	831.6	415.1	224.5	204.1	186.2	174.1	163.4	161.5
40°	5039.6	4347.6	2134.1	842.3	411.7	214.3	196.9	180.4	169.2	158.6	155.7
42.5°	5333.9	4581.4	2179.6	847.6	400.0	213.4	191.5	176.5	165.8	154.2	151.3
45°	5551.6	4777.3	2228.6	855.9	388.4	217.2	191.5	176.0	162.9	151.8	148.9
47.5°	5746.1	5007.1	2310.6	855.9	374.3	210.0	197.8	176.5	162.4	150.8	148.4
50°	6006.5	5322.3	2465.7	836.0	354.5	202.2	208.5	174.6	158.1	148.9	146.0
52.5°	6365.3	5726.2	2712.1	801.5	323.9	187.2	207.1	173.6	153.7	144.0	140.6
55°	6789.6	6158.7	2980.7	761.3	278.3	176.5	199.8	171.2	148.9	138.2	134.8
57.5°	7120.8	6456.5	3169.8	699.2	238.6	170.7	177.0	168.7	143.0	131.9	129.0
60°	7252.7	6444.8	3221.7	616.3	219.2	165.8	154.7	189.1	138.2	127.0	123.7
62.5°	7181.4	6147.1	3076.2	558.1	214.8	159.5	145.0	175.0	134.3	123.7	118.8
65°	6852.2	5619.5	2690.7	542.6	227.4	153.2	138.7	137.2	129.0	118.8	114.0
67.5°	6135.0	4831.1	2154.4	544.1	243.4	146.9	132.4	125.6	121.7	113.5	109.1
70°	4996.9	3819.6	1606.0	547.9	251.7	139.7	125.6	118.3	114.0	105.7	102.8
72.5°	3674.1	2943.8	1166.7	522.7	253.1	131.4	116.4	110.1	105.7	97.0	94.6
75°	2513.7	2251.9	809.3	433.0	220.6	119.8	106.2	100.4	97.5	86.8	85.3
77.5°	1836.3	1690.4	517.9	321.5	170.2	105.2	93.6	89.2	87.3	75.6	73.7
80°	1473.6	1337.4	323.9	220.1	124.6	88.3	78.6	76.1	74.2	62.6	61.1
82.5°	1022.2	895.6	208.0	143.0	93.6	68.4	62.1	61.1	58.2	47.5	46.1
85°	539.2	486.4	131.9	97.5	67.9	47.0	43.2	43.2	41.7	31.5	30.5
87.5°	68.9	112.0	66.9	50.9	37.3	20.9	20.9	20.4	21.8	17.9	15.5
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°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	2408.5	2431.8	2409.5	2410.9	2435.7	2509.4	2542.8	2570.5	2600.0	2619.4	2628.2
5°	1745.6	1800.0	1818.4	1857.2	1914.4	2008.5	2045.8	2073.0	2090.9	2101.6	2105.9
7.5°	1193.8	1226.8	1263.7	1326.2	1450.8	1506.1	1530.8	1524.5	1504.2	1496.9	1489.6
10°	900.0	886.9	880.1	914.5	1015.4	1071.1	1088.6	1071.6	1060.5	1062.9	1075.0
12.5°	697.3	674.5	646.9	643.0	709.4	759.4	770.5	771.5	791.8	809.8	836.5
15°	508.2	505.8	492.2	483.9	521.8	562.5	567.3	576.1	594.5	607.6	630.9
17.5°	358.3	371.4	382.1	387.4	416.0	445.1	439.8	435.4	432.0	432.0	443.2
20°	289.0	297.7	311.3	326.8	355.9	376.3	363.2	345.7	333.1	329.2	330.7
22.5°	260.4	267.2	274.9	288.5	314.7	328.8	314.7	302.1	289.5	285.1	283.7
25°	245.8	254.6	261.8	272.0	291.4	301.1	287.5	278.3	270.6	265.2	261.4
27.5°	237.6	245.4	247.3	252.1	268.6	277.4	270.6	266.7	261.8	257.0	252.1
30°	228.9	227.4	224.0	224.5	237.6	246.3	245.8	246.8	246.3	244.9	243.9
32.5°	209.0	206.1	203.2	206.1	218.2	226.0	226.4	228.4	228.4	227.9	231.8
35°	174.1	179.4	182.8	191.5	206.1	212.9	210.0	205.1	196.4	191.1	190.6
37.5°	161.0	162.0	167.8	179.9	195.9	202.2	197.8	186.7	180.9	179.9	181.4
40°	154.7	155.7	159.0	170.2	186.2	192.5	188.6	180.4	175.0	174.6	177.0
42.5°	150.3	151.3	153.2	161.0	174.1	181.8	182.3	176.5	170.2	170.7	173.1
45°	147.9	148.4	147.9	151.8	163.9	173.1	177.0	173.1	167.8	168.7	171.7
47.5°	147.4	146.0	144.0	145.0	157.6	166.8	171.7	170.2	167.8	168.7	171.2
50°	145.5	142.1	139.7	139.2	151.8	161.5	165.8	165.8	166.8	168.7	171.2
52.5°	139.7	135.8	135.8	134.3	147.9	157.1	160.0	160.5	162.0	165.4	168.7
55°	132.4	130.9	132.4	130.0	145.0	153.7	155.2	156.1	157.1	160.0	164.9
57.5°	126.1	124.1	127.5	126.6	142.6	150.3	150.3	152.3	152.3	156.1	160.0
60°	122.7	118.8	120.3	121.2	139.2	147.4	146.4	148.4	149.3	152.7	155.7
62.5°	118.3	114.9	114.9	117.3	135.3	143.0	142.6	144.0	147.9	148.9	151.8
65°	113.0	111.5	110.1	113.0	131.4	138.2	138.7	140.6	144.0	145.0	147.4
67.5°	107.6	108.1	105.2	108.1	128.0	133.3	133.3	137.2	138.7	140.6	143.0
70°	101.8	102.3	99.9	103.3	125.6	128.0	127.5	132.9	133.8	135.3	137.7
72.5°	94.6	94.6	93.6	98.4	121.7	122.7	121.7	126.1	126.6	128.0	129.0
75°	86.8	86.8	85.8	92.6	119.3	116.9	114.0	117.3	118.3	119.3	119.3
77.5°	76.6	77.6	77.6	85.8	111.0	114.4	104.7	106.7	108.1	108.6	107.2
80°	64.0	66.4	67.4	78.1	93.1	105.7	93.6	95.0	95.5	95.5	93.6
82.5°	49.0	53.3	55.8	67.4	71.3	88.7	81.5	82.9	81.5	78.6	77.6
85°	33.9	39.8	42.7	51.4	53.8	68.4	67.9	67.9	65.0	61.1	60.6
87.5°	18.4	21.8	23.8	30.5	36.9	46.1	49.9	48.5	46.1	43.6	44.1
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°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	2673.8	2739.7	2844.9	2925.4	3006.4	3084.5	3168.8	3233.3	3288.1	3309.5	3374.4
5°	2150.1	2232.5	2331.9	2511.3	2638.4	2778.5	2940.4	3154.8	3237.2	3351.2	3537.8
7.5°	1520.2	1594.8	1754.9	1899.8	2079.7	2278.1	2496.8	2792.6	2900.7	3083.5	3387.5
10°	1135.2	1222.0	1350.5	1472.6	1631.2	1833.9	2085.1	2415.8	2547.2	2745.5	3095.6
12.5°	914.5	1016.8	1153.1	1268.0	1390.7	1533.7	1777.7	2140.4	2316.4	2490.0	2844.0
15°	702.6	809.8	936.3	1082.3	1217.6	1371.8	1627.3	2024.0	2226.7	2407.5	2709.6
17.5°	486.4	578.0	737.5	889.8	1062.9	1260.3	1585.6	2048.7	2290.7	2499.2	2732.9
20°	344.8	397.1	528.1	704.6	920.3	1168.1	1577.9	2178.7	2493.4	2731.5	2882.3
22.5°	290.0	309.4	385.5	547.5	796.7	1099.3	1605.0	2361.0	2766.9	3070.9	3120.3
25°	264.3	275.9	315.7	429.6	686.6	1049.3	1696.7	2632.5	3105.3	3410.3	3401.6
27.5°	250.2	262.3	288.5	362.7	603.7	1018.3	1788.3	2954.5	3492.3	3778.8	3670.2
30°	245.8	262.3	290.0	341.9	544.5	969.3	1863.5	3237.2	3790.0	4027.6	3792.4
32.5°	242.5	244.9	257.5	294.8	488.3	912.1	1914.4	3490.8	4081.4	4264.2	3968.4
35°	195.9	208.0	228.4	264.3	455.3	877.7	1914.4	3709.5	4368.5	4503.3	4136.2
37.5°	188.6	199.3	217.2	247.8	436.9	860.7	1876.1	3920.4	4661.8	4774.3	4274.4
40°	184.7	193.5	210.4	235.2	429.1	841.3	1820.3	4106.6	4948.4	5045.9	4403.4
42.5°	181.8	189.6	205.6	227.4	419.0	820.0	1775.2	4256.0	5197.2	5277.7	4526.6
45°	180.4	188.6	206.1	231.3	398.6	791.8	1760.2	4417.5	5401.8	5471.2	4659.9
47.5°	180.4	190.1	208.5	239.5	374.3	762.8	1807.2	4630.3	5595.3	5629.2	4817.0
50°	178.9	189.6	215.3	231.3	338.9	725.9	1917.8	4898.5	5804.8	5808.6	5015.8
52.5°	176.0	188.6	231.8	226.4	298.2	677.4	2067.1	5242.8	6114.6	6137.9	5327.1
55°	172.6	187.2	227.4	215.3	264.8	619.7	2189.3	5661.2	6550.1	6614.6	5784.9
57.5°	168.3	185.2	220.1	199.8	242.9	545.5	2233.5	5967.7	6854.1	7016.1	6300.8
60°	164.4	183.8	198.8	190.6	229.4	483.0	2148.1	5907.1	6833.2	7182.4	6758.1
62.5°	160.5	185.2	181.4	184.7	223.1	442.7	1925.1	5421.7	6487.5	7010.7	7097.0
65°	156.1	172.1	171.2	179.9	221.6	426.7	1595.8	4693.9	5819.3	6468.1	7177.0
67.5°	150.3	159.0	163.9	173.6	226.4	412.7	1287.9	3871.9	4890.7	5654.9	6760.0
70°	144.0	151.3	156.6	165.8	223.5	406.3	1071.1	3053.4	3880.7	4634.7	5937.1
72.5°	135.8	142.1	146.9	155.7	220.6	403.0	904.8	2458.9	2897.3	3442.8	4827.2
75°	126.1	131.9	135.3	144.0	211.4	369.0	711.4	2080.7	2168.0	2394.9	3844.8
77.5°	114.9	119.3	122.2	131.9	187.2	306.9	514.5	1605.0	1683.6	1738.9	2947.7
80°	101.8	106.2	107.6	116.9	155.2	240.0	335.6	1185.6	1259.3	1271.9	1925.1
82.5°	86.8	91.2	91.2	99.9	127.0	172.6	220.1	812.2	826.8	869.4	1360.6
85°	69.8	73.2	73.2	77.6	98.4	129.0	151.3	407.8	403.4	460.7	1178.8
87.5°	49.9	52.4	54.8	55.8	70.3	85.3	91.2	124.1	81.9	94.1	756.9
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°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	3423.4	3451.0	3422.9	3402.6	3314.8	3242.5	3146.0	3096.6
5°	3679.9	3750.2	3726.5	3641.1	3457.8	3251.8	3017.5	2911.8
7.5°	3648.9	3812.3	3816.2	3656.6	3386.6	3083.0	2765.9	2615.6
10°	3407.4	3616.4	3676.0	3521.4	3234.8	2895.4	2531.7	2360.0
12.5°	3137.8	3342.4	3388.0	3334.7	3095.1	2754.2	2385.2	2217.0
15°	2917.2	3008.8	3063.1	3109.7	2975.4	2698.0	2377.0	2192.2
17.5°	2782.9	2772.7	2788.2	2869.2	2892.0	2762.5	2503.1	2299.4
20°	2734.4	2578.7	2574.8	2686.4	2852.7	2916.2	2749.4	2505.0
22.5°	2761.0	2508.9	2476.9	2609.3	2873.5	3137.8	3072.3	2793.5
25°	2853.2	2514.7	2489.0	2617.0	2949.2	3373.9	3421.0	3166.9
27.5°	2998.2	2551.6	2517.6	2649.0	3049.5	3572.3	3764.3	3528.6
30°	3135.9	2615.6	2573.4	2712.1	3141.2	3650.8	3974.7	3810.8
32.5°	3303.2	2735.3	2661.1	2827.9	3254.7	3775.9	4162.4	4044.6
35°	3467.1	2906.0	2813.9	3006.9	3381.2	3931.6	4376.7	4343.3
37.5°	3646.9	3129.1	3052.9	3238.2	3554.3	4078.5	4650.2	4693.4
40°	3839.0	3424.9	3334.7	3575.7	3823.0	4262.8	4935.8	5039.6
42.5°	4032.4	3753.1	3645.5	3889.9	4118.3	4444.6	5180.2	5333.9
45°	4254.0	4109.5	4058.6	4322.9	4401.9	4617.7	5360.6	5551.6
47.5°	4512.0	4514.0	4595.9	4701.6	4688.0	4813.6	5541.9	5746.1
50°	4813.1	5018.7	5199.6	5269.9	4982.9	5024.1	5793.6	6006.5
52.5°	5174.9	5622.4	5846.5	5800.4	5300.5	5281.1	6192.2	6365.3
55°	5627.3	6261.5	6484.1	6451.1	5665.6	5631.2	6688.7	6789.6
57.5°	6151.0	6880.8	7085.4	6937.0	6103.9	6015.2	7099.5	7120.8
60°	6611.2	7371.5	7550.9	7386.5	6546.2	6424.0	7356.0	7252.7
62.5°	6867.2	7537.8	7663.9	7486.9	6849.2	6859.4	7412.2	7181.4
65°	6752.7	7117.4	7158.1	7143.6	6771.2	7112.1	7210.0	6852.2
67.5°	6126.3	6054.5	6122.9	6217.4	6102.0	6779.4	6649.9	6135.0
70°	5022.6	4628.4	4764.6	4828.2	4880.5	5833.9	5771.8	4996.9
72.5°	3785.1	3242.5	3350.2	3337.1	3579.5	4679.3	4488.7	3674.1
75°	2682.0	2198.5	2212.1	2206.8	2497.7	3661.0	3250.3	2513.7
77.5°	1876.6	1592.9	1600.2	1630.2	1679.2	2761.0	2322.2	1836.3
80°	1290.3	1208.9	1249.1	1251.5	1163.8	1854.8	1715.6	1473.6
82.5°	961.1	840.3	830.6	844.7	912.1	1502.7	1318.4	1022.2
85°	787.0	497.5	400.0	501.4	808.3	1488.2	875.7	539.2
87.5°	443.2	236.1	106.7	197.8	322.5	985.3	253.1	68.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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