

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: P270224

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270224
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-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10404.7 lumens
Efficiency: N/A
Efficacy: 80.7 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): 129
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

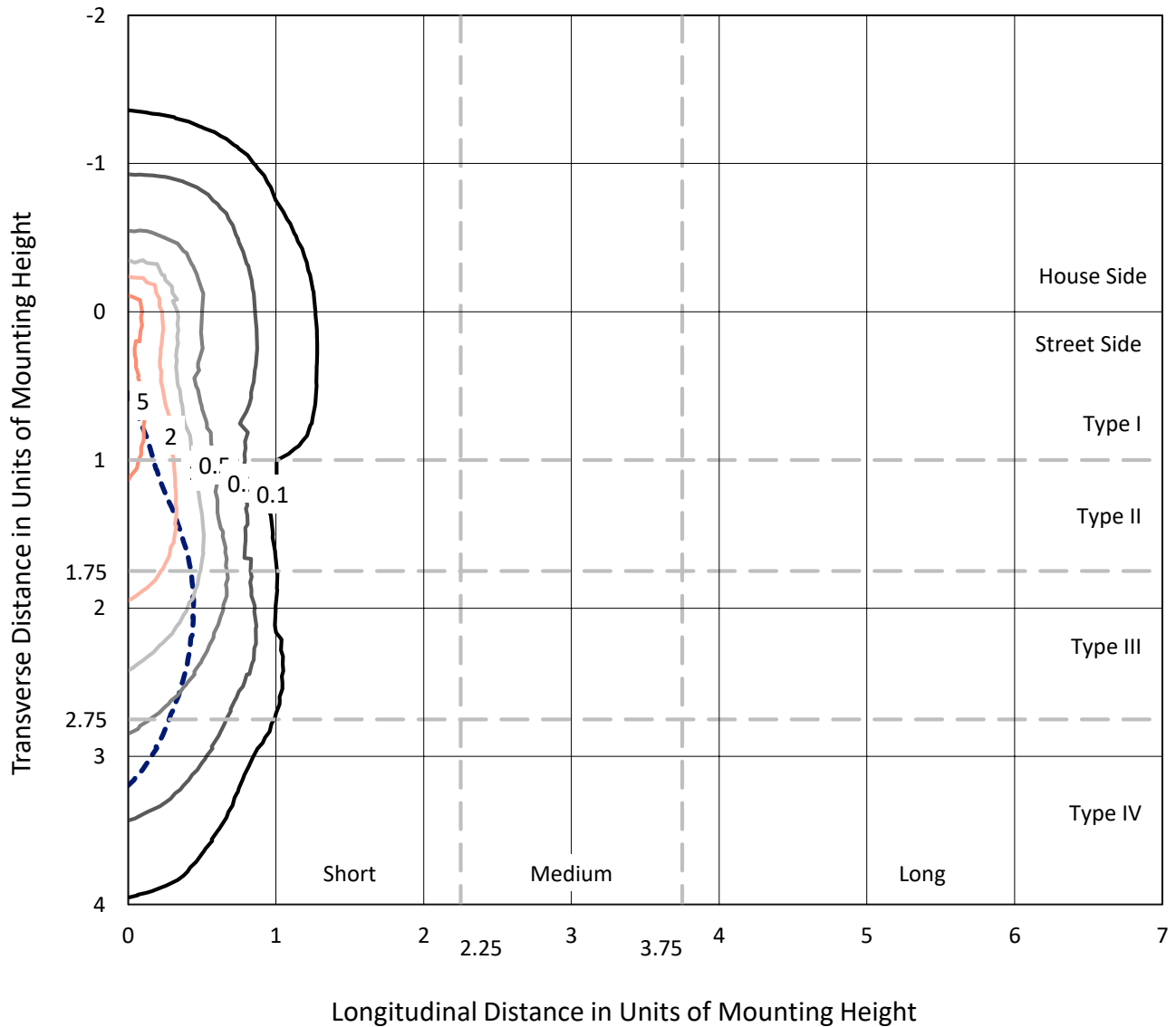


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

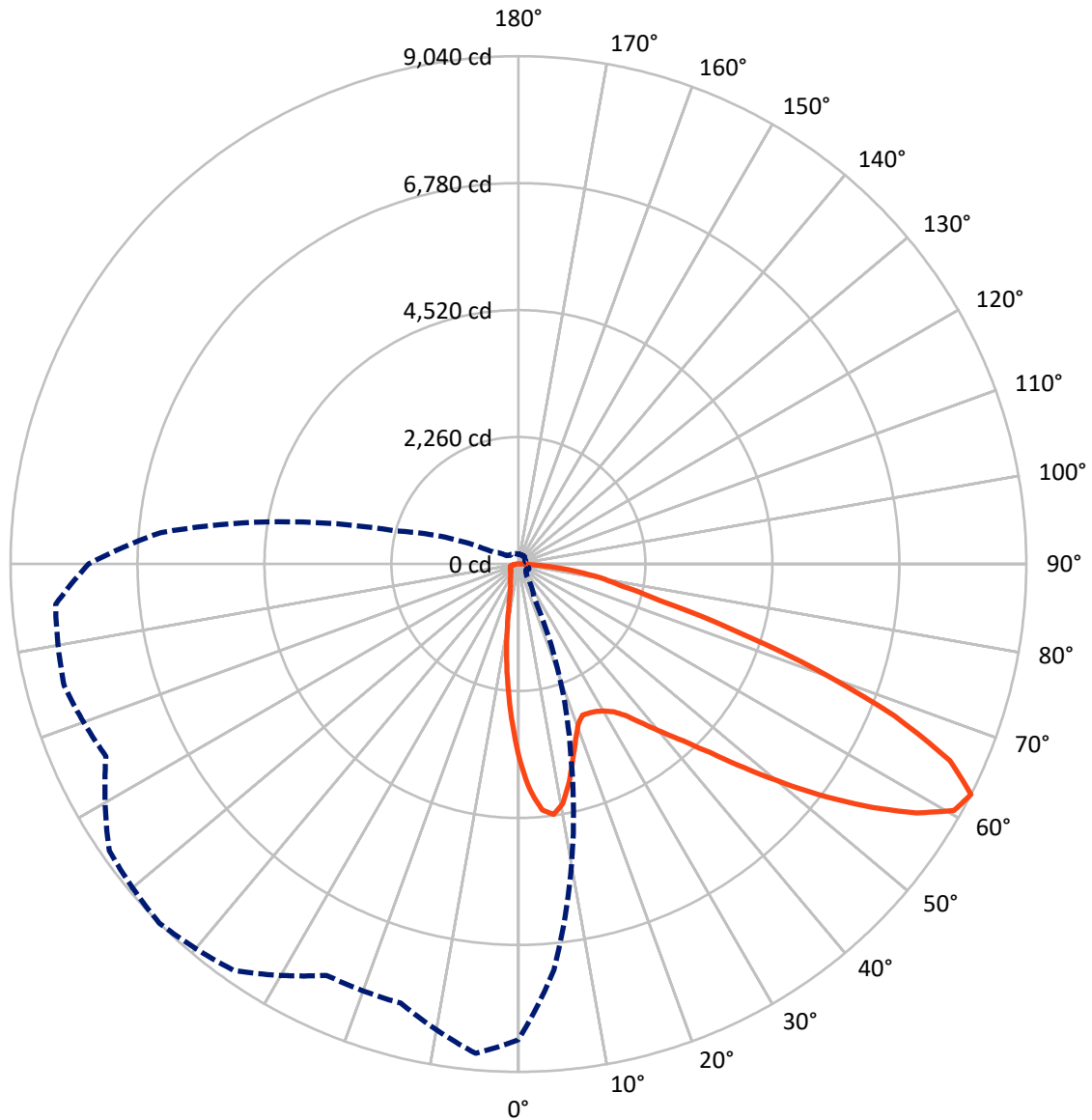


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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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	1721.8	0.0	1721.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8682.8	0.0	8682.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10404.7	0.0	10404.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	2.5
10°-20°	469.2	4.5
20°-30°	684.2	6.6
30°-40°	1053.7	10.1
40°-50°	1550.8	14.9
50°-60°	2274.6	21.9
60°-70°	2542.7	24.4
70°-80°	1244.9	12.0
80°-90°	328.7	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°	10404.7	100.0
0°-180°	10404.7	100.0

Coefficient of Utilization



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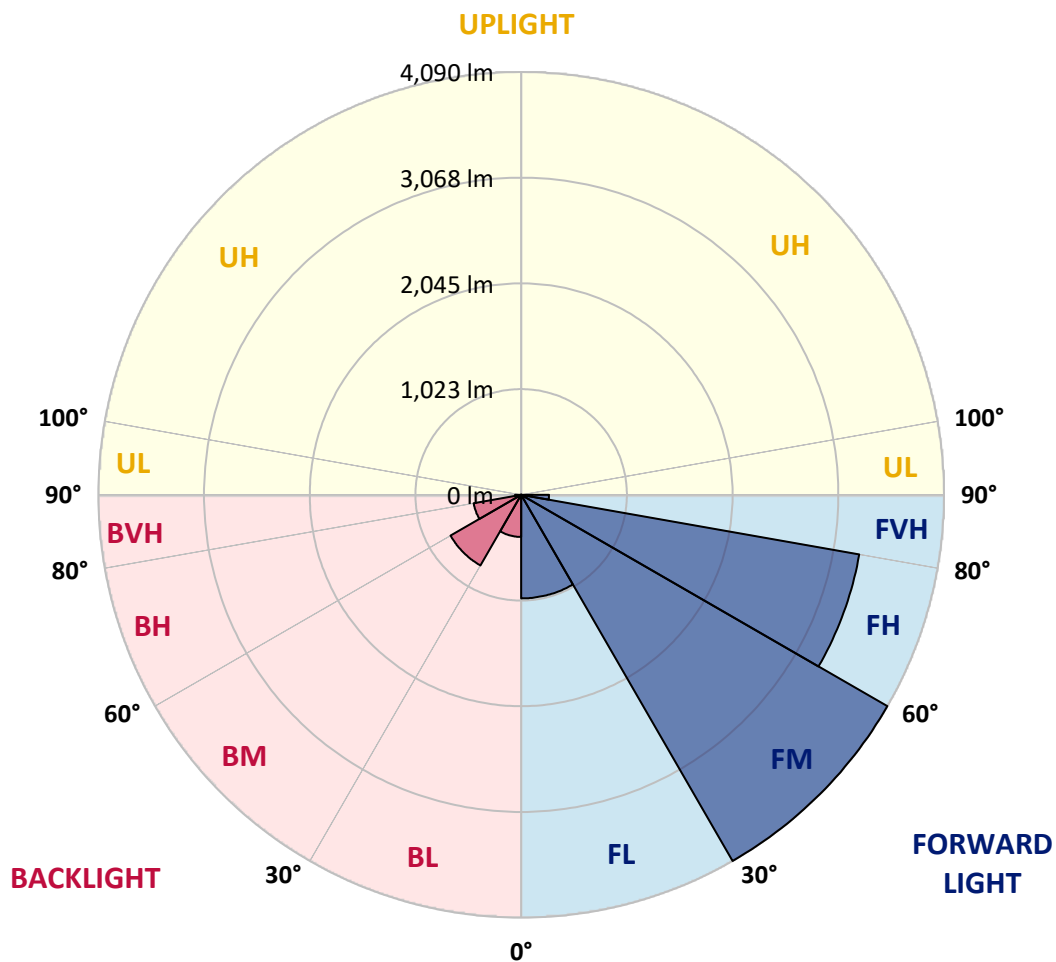
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.9	9.6			
FM (30°-60°)	4090.2	39.3			
FH (60°-80°)	3320.8	31.9			G2/5000
FVH (80°-90°)	269.9	2.6			G3/500
BL (0°-30°)	407.4	3.9	B1/500		
BM (30°-60°)	788.9	7.6	B1/1000		
BH (60°-80°)	466.8	4.5	B1/500		G1/500
BVH (80°-90°)	58.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2
2.5°	3652.5	3578.2	3454.6	3326.0	3247.6	3156.0	3084.6	3021.7	2895.9	2871.3	2893.5
5°	3434.6	3285.3	3052.5	2818.1	2661.9	2494.4	2363.9	2259.2	2099.7	2071.6	2105.4
7.5°	3085.1	2906.6	2598.9	2299.8	2079.0	1869.7	1729.1	1616.9	1492.3	1438.5	1441.9
10°	2783.8	2582.4	2218.6	1893.2	1712.4	1571.1	1452.7	1337.8	1211.5	1128.5	1105.6
12.5°	2615.0	2383.4	1964.1	1673.5	1506.0	1357.2	1229.7	1106.7	971.7	887.0	863.1
15°	2585.9	2334.2	1868.6	1532.9	1322.9	1134.7	984.4	847.1	708.0	639.5	625.1
17.5°	2712.3	2422.3	1837.8	1407.6	1150.8	918.5	733.8	580.6	467.3	433.0	430.1
20°	2954.7	2591.5	1833.7	1289.7	980.9	708.7	511.3	399.7	350.0	340.3	340.8
22.5°	3295.1	2854.1	1882.8	1201.2	824.7	528.6	384.4	334.6	315.1	306.1	306.1
25°	3735.4	3215.6	1996.2	1136.4	689.2	422.2	339.2	309.5	291.1	284.9	286.0
27.5°	4162.1	3567.3	2127.6	1085.6	600.5	383.1	321.5	294.6	278.6	272.2	275.2
30°	4494.9	3879.6	2237.5	1016.3	555.4	372.3	327.7	300.3	277.3	267.6	268.2
32.5°	4770.7	4153.0	2329.6	966.5	515.4	319.2	282.5	270.5	267.6	256.2	250.4
35°	5123.0	4451.0	2391.4	967.7	496.5	284.9	251.6	230.4	215.1	201.8	201.8
37.5°	5536.0	4793.0	2457.1	980.9	489.5	264.8	240.7	219.6	205.4	192.7	190.5
40°	5944.4	5128.2	2517.2	993.4	485.7	252.9	232.2	212.8	199.7	187.0	183.7
42.5°	6291.5	5403.8	2570.9	999.8	471.9	251.6	226.0	208.1	195.7	181.8	178.5
45°	6548.4	5635.0	2628.7	1009.5	458.1	256.2	226.0	207.6	192.1	179.0	175.6
47.5°	6777.7	5906.0	2725.4	1009.5	441.5	247.7	233.4	208.1	191.6	177.9	175.0
50°	7084.8	6277.9	2908.4	986.1	418.2	238.5	246.0	205.9	186.5	175.6	172.1
52.5°	7508.2	6754.3	3199.0	945.5	382.0	220.8	244.2	204.8	181.3	169.9	165.8
55°	8008.6	7264.5	3515.8	897.9	328.3	208.1	235.6	201.8	175.6	163.0	159.0
57.5°	8399.2	7615.7	3738.8	824.7	281.3	201.3	208.8	199.1	168.7	155.5	152.2
60°	8554.7	7601.8	3800.1	727.0	258.5	195.7	182.4	223.0	163.0	149.8	145.9
62.5°	8470.7	7250.7	3628.6	658.3	253.4	188.1	170.9	206.5	158.5	145.9	140.1
65°	8082.4	6628.5	3173.8	640.0	268.2	180.6	163.6	161.9	152.2	140.1	134.3
67.5°	7236.4	5698.5	2541.2	641.7	287.1	173.4	156.1	148.1	143.5	133.8	128.6
70°	5894.0	4505.3	1894.3	646.3	296.8	164.7	148.1	139.5	134.3	124.7	121.2
72.5°	4333.8	3472.4	1376.2	616.5	298.5	155.0	137.4	129.8	124.7	114.4	111.5
75°	2965.0	2656.2	954.5	510.7	260.2	141.3	125.3	118.3	115.0	102.3	100.7
77.5°	2166.1	1993.9	610.8	379.3	200.7	124.1	110.4	105.2	102.9	89.2	87.0
80°	1738.2	1577.5	382.0	259.7	147.1	104.2	92.6	89.8	87.6	73.8	72.0
82.5°	1205.6	1056.3	245.3	168.7	110.4	80.7	73.2	72.0	68.6	56.1	54.3
85°	636.0	573.7	155.5	115.0	80.0	55.4	50.9	50.9	49.1	37.2	36.0
87.5°	81.2	132.1	79.0	60.0	44.0	24.7	24.7	24.1	25.7	21.2	18.2
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°	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2
2.5°	2840.9	2868.4	2842.1	2843.8	2873.0	2959.8	2999.4	3032.0	3066.9	3089.7	3100.1
5°	2059.1	2123.1	2144.9	2190.5	2258.1	2369.1	2413.0	2445.1	2466.2	2478.9	2484.1
7.5°	1408.2	1447.1	1490.5	1564.3	1711.4	1776.5	1805.7	1798.2	1774.2	1765.7	1757.1
10°	1061.5	1046.2	1038.1	1078.8	1197.7	1263.5	1284.0	1264.0	1250.9	1253.8	1268.0
12.5°	822.5	795.5	763.0	758.3	836.9	895.7	908.8	910.1	934.0	955.2	986.6
15°	599.3	596.6	580.6	570.9	615.3	663.5	669.1	679.5	701.2	716.7	744.2
17.5°	422.7	438.2	450.7	457.0	490.7	525.1	518.9	513.7	509.6	509.6	522.8
20°	340.8	351.1	367.1	385.6	419.8	443.9	428.4	407.8	393.0	388.3	390.0
22.5°	307.1	315.1	324.3	340.3	371.2	387.8	371.2	356.4	341.4	336.3	334.6
25°	290.1	300.3	308.8	320.9	343.7	355.2	339.2	328.3	319.2	312.9	308.3
27.5°	280.2	289.4	291.7	297.3	316.8	327.2	319.2	314.5	308.8	303.2	297.3
30°	270.0	268.2	264.2	264.8	280.2	290.5	290.1	291.1	290.5	288.9	287.6
32.5°	246.6	243.1	239.7	243.1	257.4	266.5	267.1	269.4	269.4	268.9	273.4
35°	205.4	211.6	215.7	226.0	243.1	251.0	247.7	242.0	231.7	225.4	224.8
37.5°	189.9	191.0	197.8	212.2	231.0	238.5	233.4	220.3	213.3	212.2	213.8
40°	182.4	183.7	187.6	200.7	219.6	227.1	222.5	212.8	206.5	205.9	208.8
42.5°	177.3	178.5	180.6	189.9	205.4	214.4	215.1	208.1	200.7	201.3	204.2
45°	174.5	175.0	174.5	179.0	193.3	204.2	208.8	204.2	197.8	199.1	202.5
47.5°	173.9	172.1	169.9	170.9	185.9	196.8	202.5	200.7	197.8	199.1	201.8
50°	171.5	167.5	164.7	164.1	179.0	190.5	195.7	195.7	196.8	199.1	201.8
52.5°	164.7	160.2	160.2	158.5	174.5	185.3	188.7	189.4	191.0	195.0	199.1
55°	156.1	154.4	156.1	153.3	170.9	181.3	183.1	184.2	185.3	188.7	194.5
57.5°	148.7	146.5	150.5	149.3	168.2	177.3	177.3	179.7	179.7	184.2	188.7
60°	144.6	140.1	141.8	143.0	164.1	173.9	172.7	175.0	176.2	180.2	183.7
62.5°	139.5	135.6	135.6	138.3	159.5	168.7	168.2	169.9	174.5	175.6	179.0
65°	133.3	131.5	129.8	133.3	155.0	163.0	163.6	165.8	169.9	170.9	173.9
67.5°	127.0	127.6	124.1	127.6	150.9	157.4	157.4	161.9	163.6	165.8	168.7
70°	120.2	120.7	117.8	121.8	148.1	150.9	150.5	156.8	157.8	159.5	162.5
72.5°	111.5	111.5	110.4	116.2	143.5	144.6	143.5	148.7	149.3	150.9	152.2
75°	102.3	102.3	101.1	109.2	140.8	137.8	134.3	138.3	139.5	140.8	140.8
77.5°	90.4	91.4	91.4	101.1	131.1	134.9	123.5	125.9	127.6	128.1	126.4
80°	75.5	78.3	79.5	92.0	109.9	124.7	110.4	112.1	112.6	112.6	110.4
82.5°	57.9	62.9	65.8	79.5	84.1	104.7	96.1	97.8	96.1	92.6	91.4
85°	40.1	46.9	50.3	60.6	63.5	80.7	80.0	80.0	76.6	72.0	71.4
87.5°	21.6	25.7	28.0	36.0	43.5	54.3	58.8	57.2	54.3	51.5	52.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2
2.5°	3153.8	3231.6	3355.7	3450.6	3546.1	3638.2	3737.8	3813.8	3878.4	3903.7	3980.3
5°	2536.1	2633.3	2750.6	2962.3	3112.0	3277.3	3468.4	3721.1	3818.3	3952.8	4173.0
7.5°	1793.0	1881.2	2070.0	2240.9	2453.1	2687.1	2945.1	3293.9	3421.5	3637.1	3995.8
10°	1339.0	1441.3	1593.0	1737.1	1924.1	2163.2	2459.4	2849.6	3004.6	3238.4	3651.4
12.5°	1078.8	1199.3	1360.2	1495.7	1640.3	1809.0	2096.9	2524.6	2732.3	2937.0	3354.5
15°	828.7	955.2	1104.5	1276.6	1436.2	1618.0	1919.5	2387.3	2626.5	2839.8	3196.1
17.5°	573.7	681.8	870.0	1049.5	1253.8	1486.5	1870.4	2416.5	2701.9	2947.9	3223.6
20°	406.7	468.5	622.9	831.0	1085.6	1377.8	1861.2	2569.8	2941.1	3221.9	3399.7
22.5°	342.1	364.9	454.7	645.7	939.7	1296.7	1893.2	2784.8	3263.6	3622.2	3680.5
25°	311.7	325.5	372.3	506.7	809.9	1237.8	2001.2	3105.3	3662.7	4022.6	4012.3
27.5°	295.2	309.5	340.3	427.9	712.0	1201.2	2109.4	3485.0	4119.3	4457.3	4329.1
30°	290.1	309.5	342.1	403.2	642.3	1143.4	2198.1	3818.3	4470.4	4750.6	4473.3
32.5°	286.0	288.9	303.6	347.7	576.0	1075.9	2258.1	4117.6	4814.1	5029.8	4680.9
35°	231.0	245.3	269.4	311.7	537.0	1035.2	2258.1	4375.5	5152.8	5311.8	4878.9
37.5°	222.5	235.0	256.2	292.3	515.4	1015.3	2213.0	4624.3	5498.9	5631.6	5041.8
40°	217.8	228.2	248.2	277.3	506.1	992.4	2147.0	4843.9	5836.8	5951.8	5194.0
42.5°	214.4	223.7	242.5	268.2	494.2	967.1	2093.9	5020.1	6130.3	6225.3	5339.3
45°	212.8	222.5	243.1	272.8	470.2	934.0	2076.3	5210.6	6371.6	6453.5	5496.5
47.5°	212.8	224.1	246.0	282.5	441.5	899.7	2131.7	5461.6	6599.8	6639.9	5681.9
50°	211.0	223.7	254.0	272.8	399.7	856.3	2262.1	5778.0	6846.9	6851.6	5916.3
52.5°	207.6	222.5	273.4	267.1	351.7	799.0	2438.3	6184.0	7212.4	7239.9	6283.6
55°	203.6	220.8	268.2	254.0	312.3	731.0	2582.4	6677.6	7726.1	7802.0	6823.4
57.5°	198.4	218.5	259.7	235.6	286.6	643.5	2634.5	7039.1	8084.7	8275.6	7432.0
60°	193.9	216.9	234.5	224.8	270.5	569.6	2533.8	6967.7	8060.0	8471.8	7971.4
62.5°	189.4	218.5	213.8	217.8	263.2	522.3	2270.6	6395.0	7652.2	8269.3	8371.1
65°	184.2	203.0	201.8	212.2	261.3	503.3	1882.3	5536.6	6864.0	7629.3	8465.5
67.5°	177.3	187.6	193.3	204.8	267.1	486.7	1519.2	4567.2	5768.7	6670.2	7973.6
70°	169.9	178.5	184.7	195.7	263.7	479.2	1263.5	3601.7	4577.5	5466.7	7003.0
72.5°	160.2	167.5	173.4	183.7	260.2	475.4	1067.2	2900.4	3417.4	4060.9	5693.8
75°	148.7	155.5	159.5	169.9	249.4	435.3	839.0	2454.3	2557.3	2824.9	4535.1
77.5°	135.6	140.8	144.2	155.5	220.8	362.0	606.9	1893.2	1985.9	2051.0	3476.9
80°	120.2	125.3	127.0	137.8	183.1	283.1	395.9	1398.4	1485.3	1500.3	2270.6
82.5°	102.3	107.5	107.5	117.8	149.8	203.6	259.7	958.0	975.2	1025.5	1604.9
85°	82.4	86.3	86.3	91.4	116.2	152.2	178.5	481.0	475.8	543.4	1390.4
87.5°	58.8	61.8	64.7	65.8	83.0	100.7	107.5	146.5	96.7	111.0	892.8
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°	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2	3515.2
2.5°	4038.1	4070.6	4037.4	4013.4	3910.0	3824.8	3710.9	3652.5
5°	4340.6	4423.6	4395.4	4294.8	4078.7	3835.6	3559.4	3434.6
7.5°	4304.0	4496.7	4501.3	4313.1	3994.6	3636.5	3262.5	3085.1
10°	4019.1	4265.7	4335.9	4153.6	3815.6	3415.1	2986.1	2783.8
12.5°	3701.1	3942.5	3996.3	3933.4	3650.8	3248.7	2813.5	2615.0
15°	3440.9	3549.1	3613.1	3668.0	3509.6	3182.3	2803.7	2585.9
17.5°	3282.4	3270.5	3288.8	3384.3	3411.1	3258.4	2952.5	2712.3
20°	3225.3	3041.8	3037.1	3168.6	3364.8	3439.8	3243.1	2954.7
22.5°	3256.7	2959.3	2921.6	3077.8	3389.5	3701.1	3623.9	3295.1
25°	3365.4	2966.2	2935.9	3086.8	3478.6	3979.8	4035.1	3735.4
27.5°	3536.4	3009.6	2969.5	3124.7	3597.1	4213.6	4440.1	4162.1
30°	3699.0	3085.1	3035.5	3199.0	3705.1	4306.3	4688.3	4494.9
32.5°	3896.2	3226.4	3138.9	3335.6	3838.9	4453.8	4909.6	4770.7
35°	4089.5	3427.8	3319.1	3546.7	3988.3	4637.4	5162.5	5123.0
37.5°	4301.8	3690.9	3601.0	3819.6	4192.5	4810.8	5485.1	5536.0
40°	4528.1	4039.8	3933.4	4217.6	4509.3	5028.2	5821.9	5944.4
42.5°	4756.4	4426.9	4299.9	4588.3	4857.7	5242.6	6110.2	6291.5
45°	5017.8	4847.3	4787.2	5099.0	5192.3	5446.8	6323.0	6548.4
47.5°	5322.1	5324.3	5421.0	5545.7	5529.6	5677.8	6537.0	6777.7
50°	5677.3	5919.8	6133.1	6216.0	5877.5	5926.1	6833.8	7084.8
52.5°	6104.0	6631.8	6896.1	6841.9	6252.2	6229.1	7303.8	7508.2
55°	6637.5	7385.8	7648.2	7609.4	6682.9	6642.2	7889.6	8008.6
57.5°	7255.3	8116.0	8357.6	8182.4	7199.8	7095.2	8374.1	8399.2
60°	7798.0	8695.0	8906.5	8712.7	7721.4	7577.4	8676.5	8554.7
62.5°	8100.0	8891.2	9039.9	8831.1	8078.9	8090.9	8742.9	8470.7
65°	7965.1	8395.2	8443.3	8426.1	7986.8	8388.9	8504.4	8082.4
67.5°	7226.1	7141.4	7222.2	7333.7	7197.5	7996.5	7843.8	7236.4
70°	5924.3	5459.4	5620.1	5695.1	5756.8	6881.2	6808.1	5894.0
72.5°	4464.8	3824.8	3951.6	3936.3	4222.3	5519.4	5294.6	4333.8
75°	3163.6	2593.2	2609.2	2603.0	2946.3	4318.3	3833.8	2965.0
77.5°	2213.5	1878.8	1887.5	1922.9	1980.8	3256.7	2739.1	2166.1
80°	1522.0	1425.9	1473.4	1476.3	1372.7	2187.7	2023.6	1738.2
82.5°	1133.7	991.2	979.8	996.4	1075.9	1772.4	1555.1	1205.6
85°	928.3	586.9	471.9	591.4	953.5	1755.4	1033.0	636.0
87.5°	522.8	278.6	125.9	233.4	380.3	1162.2	298.5	81.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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