

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: P200328

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200328
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
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 10916.9 lumens
Efficiency: N/A
Efficacy: 96.6 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

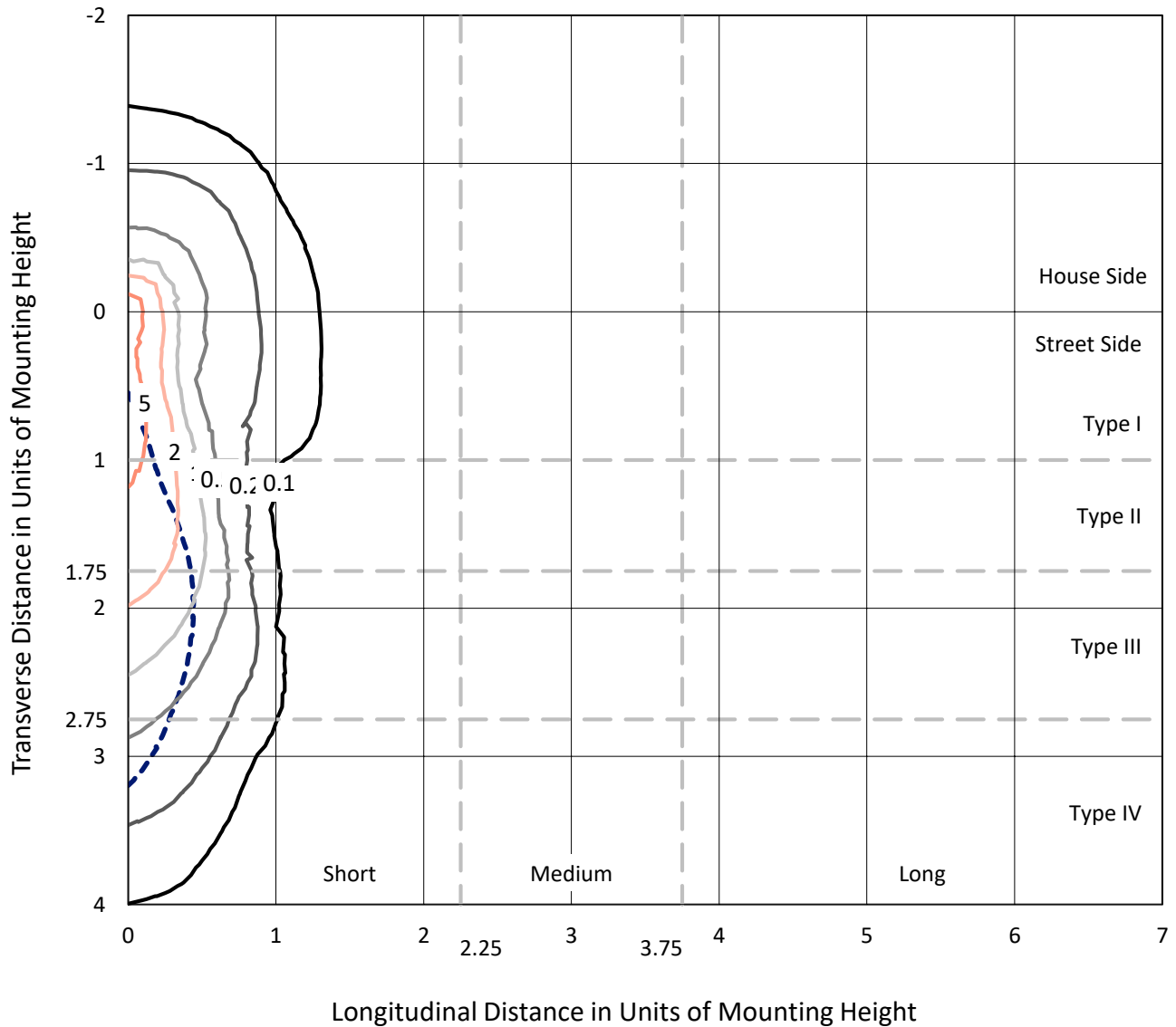
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

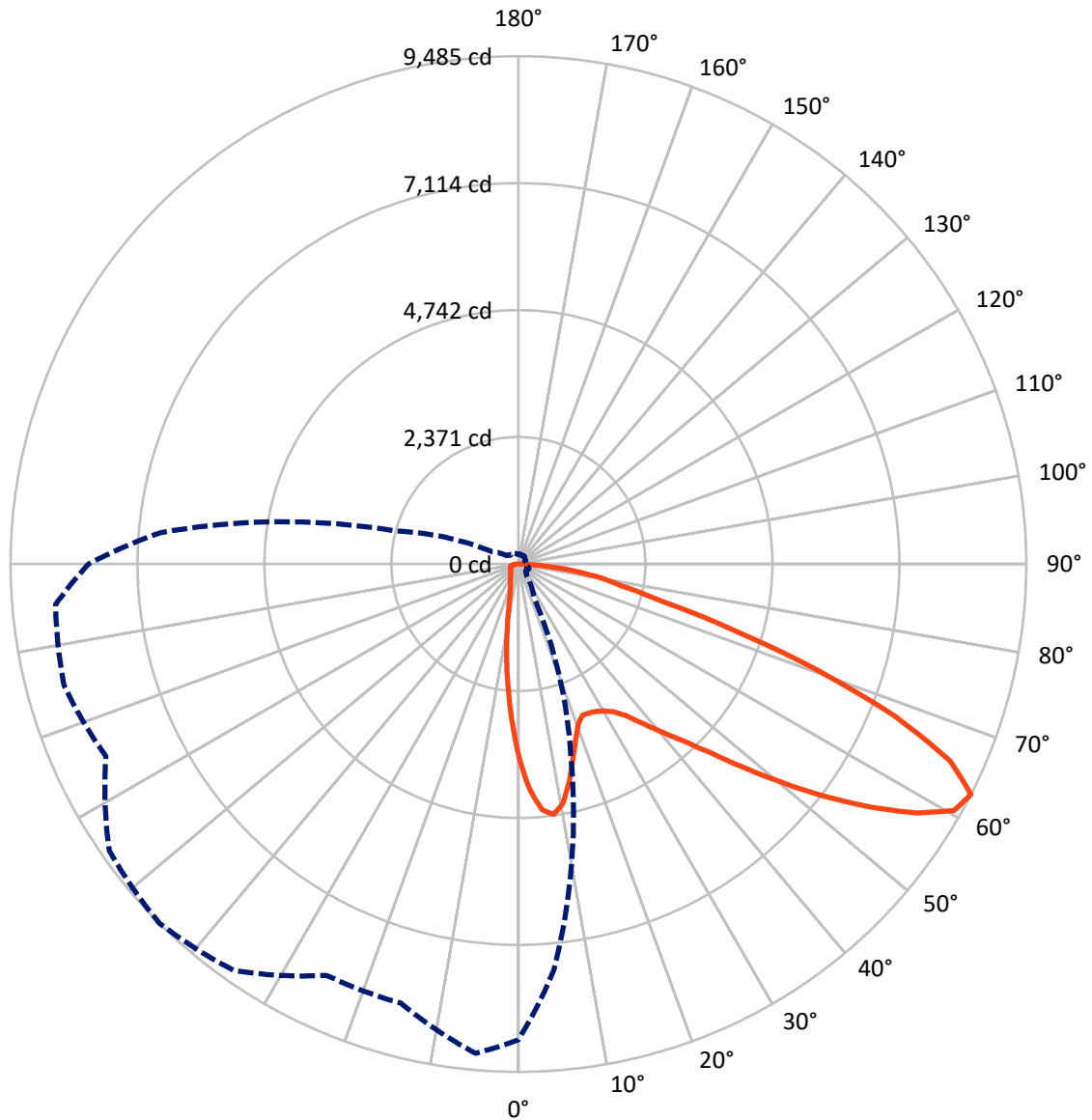
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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	1806.6	0.0	1806.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9110.4	0.0	9110.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	10916.9	0.0	10916.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	2.5
10°-20°	492.3	4.5
20°-30°	717.8	6.6
30°-40°	1105.6	10.1
40°-50°	1627.1	14.9
50°-60°	2386.6	21.9
60°-70°	2667.9	24.4
70°-80°	1306.2	12.0
80°-90°	344.8	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°	10916.9	100.0
0°-180°	10916.9	100.0

Coefficient of Utilization



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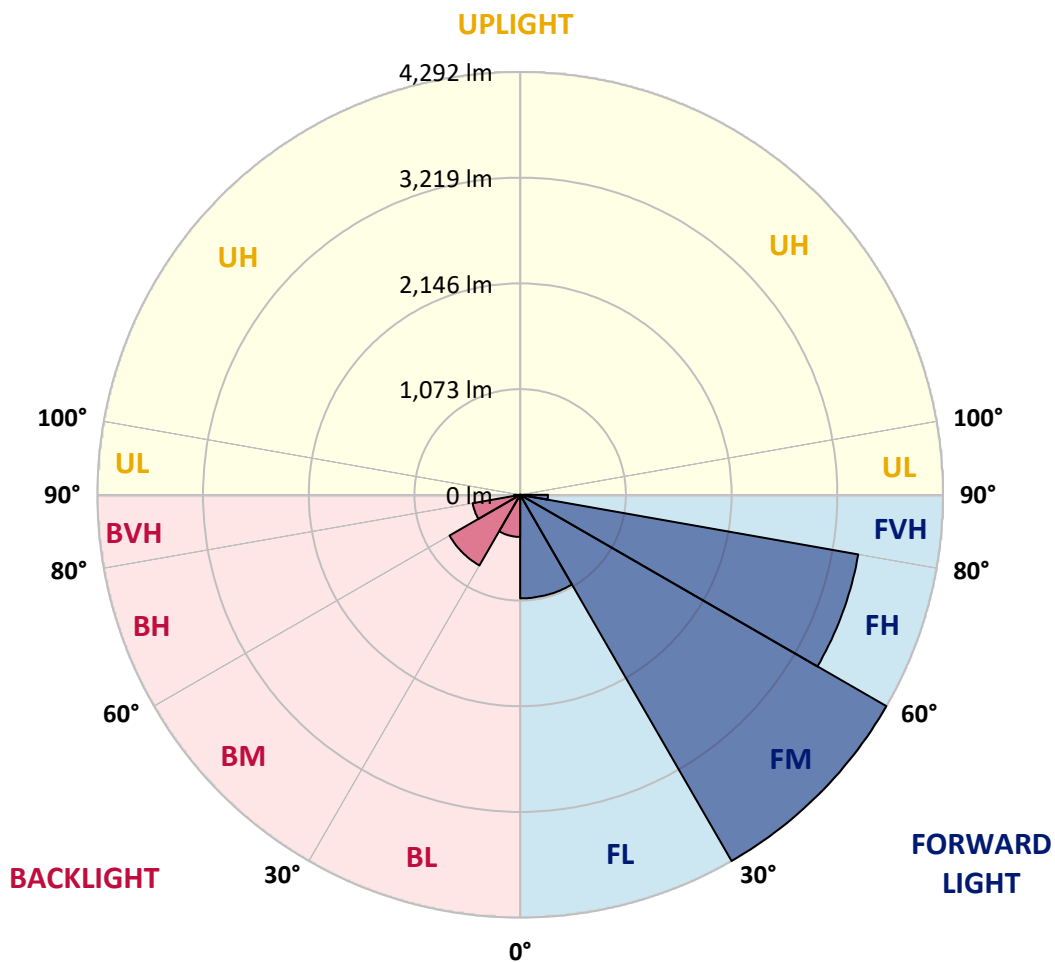
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.3	9.6			
FM	(30°-60°)	4291.6	39.3			
FH	(60°-80°)	3484.3	31.9			G2/5000
FVH	(80°-90°)	283.2	2.6			G3/500
BL	(0°-30°)	427.4	3.9	B1/500		
BM	(30°-60°)	827.8	7.6	B1/1000		
BH	(60°-80°)	489.7	4.5	B1/500		G1/500
BVH	(80°-90°)	61.6	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°	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4
2.5°	3832.4	3754.4	3624.7	3489.7	3407.5	3311.5	3236.5	3170.4	3038.4	3012.6	3036.0
5°	3603.7	3447.1	3202.9	2956.8	2793.0	2617.1	2480.3	2370.5	2203.0	2173.6	2209.0
7.5°	3237.1	3049.8	2727.0	2413.1	2181.4	1961.8	1814.2	1696.5	1565.7	1509.3	1512.9
10°	2920.8	2709.6	2327.9	1986.4	1796.8	1648.5	1524.3	1403.7	1271.1	1184.0	1160.0
12.5°	2743.8	2500.7	2060.8	1756.0	1580.1	1424.1	1290.3	1161.2	1019.6	930.8	905.6
15°	2713.2	2449.1	1960.6	1608.3	1388.1	1190.6	1032.8	888.8	743.0	670.9	655.9
17.5°	2845.8	2541.5	1928.2	1476.9	1207.4	963.8	770.0	609.1	490.3	454.3	451.3
20°	3100.2	2719.2	1924.0	1353.3	1029.2	743.6	536.5	419.5	367.3	357.1	357.7
22.5°	3457.3	2994.6	1975.6	1260.3	865.4	554.5	403.3	351.1	330.7	321.1	321.1
25°	3919.4	3373.9	2094.4	1192.4	723.1	442.9	355.9	324.7	305.5	298.9	300.1
27.5°	4367.1	3743.0	2232.5	1139.0	630.1	402.1	337.3	309.1	292.3	285.7	288.7
30°	4716.4	4070.6	2347.7	1066.4	582.7	390.7	343.9	315.1	291.1	280.9	281.5
32.5°	5005.6	4357.5	2444.3	1014.2	540.7	334.9	296.5	283.9	280.9	268.9	262.9
35°	5375.3	4670.2	2509.1	1015.4	520.9	298.9	264.1	241.8	225.6	211.8	211.8
37.5°	5808.6	5029.0	2578.1	1029.2	513.7	277.9	252.7	230.4	215.4	202.2	199.8
40°	6237.1	5380.7	2641.1	1042.4	509.5	265.3	243.6	223.2	209.4	196.2	192.6
42.5°	6601.3	5670.0	2697.5	1049.0	495.1	264.1	237.0	218.4	205.2	190.8	187.2
45°	6870.8	5912.4	2758.2	1059.2	480.7	268.9	237.0	217.8	201.6	187.8	184.2
47.5°	7111.4	6196.9	2859.6	1059.2	463.3	259.9	244.8	218.4	201.0	186.6	183.6
50°	7433.7	6586.9	3051.6	1034.6	438.7	250.3	258.1	216.0	195.6	184.2	180.6
52.5°	7877.8	7086.8	3356.5	992.0	400.9	231.6	256.3	214.8	190.2	178.2	174.0
55°	8402.9	7622.2	3689.0	942.2	344.5	218.4	247.3	211.8	184.2	171.0	166.8
57.5°	8812.8	7990.6	3923.0	865.4	295.3	211.2	219.0	208.8	177.0	163.2	159.6
60°	8976.0	7976.2	3987.2	762.8	271.3	205.2	191.4	234.0	171.0	157.2	153.0
62.5°	8887.8	7607.7	3807.2	690.7	265.9	197.4	179.4	216.6	166.2	153.0	147.0
65°	8480.3	6954.8	3330.1	671.5	281.5	189.6	171.6	169.8	159.6	147.0	141.0
67.5°	7592.7	5979.0	2666.3	673.3	301.3	181.8	163.8	155.4	150.6	140.4	135.0
70°	6184.3	4727.2	1987.6	678.1	311.5	172.8	155.4	146.4	141.0	130.8	127.2
72.5°	4547.1	3643.3	1443.9	646.9	313.3	162.6	144.0	136.2	130.8	120.0	117.0
75°	3111.0	2787.0	1001.6	535.9	273.1	148.2	131.4	124.2	120.6	107.4	105.6
77.5°	2272.7	2092.0	640.9	397.9	210.6	130.2	115.8	110.4	108.0	93.6	91.2
80°	1823.8	1655.1	400.9	272.5	154.2	109.2	97.2	94.2	91.8	77.4	75.6
82.5°	1265.1	1108.4	257.5	177.0	115.8	84.6	76.8	75.6	72.0	58.8	57.0
85°	667.3	601.9	163.2	120.6	84.0	58.2	53.4	53.4	51.6	39.0	37.8
87.5°	85.2	138.6	82.8	63.0	46.2	25.8	25.8	25.2	27.0	22.2	19.2
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°	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4
2.5°	2980.8	3009.6	2982.0	2983.8	3014.4	3105.6	3147.0	3181.2	3217.9	3241.9	3252.7
5°	2160.4	2227.7	2250.5	2298.5	2369.3	2485.7	2531.9	2565.5	2587.7	2600.9	2606.3
7.5°	1477.5	1518.3	1563.9	1641.3	1795.6	1864.0	1894.6	1886.8	1861.6	1852.6	1843.6
10°	1113.8	1097.6	1089.2	1131.8	1256.7	1325.7	1347.3	1326.3	1312.5	1315.5	1330.5
12.5°	863.0	834.8	800.6	795.8	878.0	939.8	953.6	954.8	980.0	1002.2	1035.2
15°	628.9	625.9	609.1	598.9	645.7	696.1	702.1	712.9	735.7	752.0	780.8
17.5°	443.5	459.7	472.9	479.5	514.9	550.9	544.3	538.9	534.7	534.7	548.5
20°	357.7	368.5	385.3	404.5	440.5	465.7	449.5	427.9	412.3	407.5	409.3
22.5°	322.3	330.7	340.3	357.1	389.5	406.9	389.5	373.9	358.3	352.9	351.1
25°	304.3	315.1	324.1	336.7	360.7	372.7	355.9	344.5	334.9	328.3	323.5
27.5°	294.1	303.7	306.1	312.1	332.5	343.3	334.9	330.1	324.1	318.1	312.1
30°	283.3	281.5	277.3	277.9	294.1	304.9	304.3	305.5	304.9	303.1	301.9
32.5°	258.7	255.1	251.5	255.1	270.1	279.7	280.3	282.7	282.7	282.1	286.9
35°	215.4	222.0	226.2	237.0	255.1	263.5	259.9	253.9	243.0	236.4	235.8
37.5°	199.2	200.4	207.6	222.6	242.4	250.3	244.8	231.0	223.8	222.6	224.4
40°	191.4	192.6	196.8	210.6	230.4	238.2	233.4	223.2	216.6	216.0	219.0
42.5°	186.0	187.2	189.6	199.2	215.4	225.0	225.6	218.4	210.6	211.2	214.2
45°	183.0	183.6	183.0	187.8	202.8	214.2	219.0	214.2	207.6	208.8	212.4
47.5°	182.4	180.6	178.2	179.4	195.0	206.4	212.4	210.6	207.6	208.8	211.8
50°	180.0	175.8	172.8	172.2	187.8	199.8	205.2	205.2	206.4	208.8	211.8
52.5°	172.8	168.0	168.0	166.2	183.0	194.4	198.0	198.6	200.4	204.6	208.8
55°	163.8	162.0	163.8	160.8	179.4	190.2	192.0	193.2	194.4	198.0	204.0
57.5°	156.0	153.6	157.8	156.6	176.4	186.0	186.0	188.4	188.4	193.2	198.0
60°	151.8	147.0	148.8	150.0	172.2	182.4	181.2	183.6	184.8	189.0	192.6
62.5°	146.4	142.2	142.2	145.2	167.4	177.0	176.4	178.2	183.0	184.2	187.8
65°	139.8	138.0	136.2	139.8	162.6	171.0	171.6	174.0	178.2	179.4	182.4
67.5°	133.2	133.8	130.2	133.8	158.4	165.0	165.0	169.8	171.6	174.0	177.0
70°	126.0	126.6	123.6	127.8	155.4	158.4	157.8	164.4	165.6	167.4	170.4
72.5°	117.0	117.0	115.8	121.8	150.6	151.8	150.6	156.0	156.6	158.4	159.6
75°	107.4	107.4	106.2	114.6	147.6	144.6	141.0	145.2	146.4	147.6	147.6
77.5°	94.8	96.0	96.0	106.2	137.4	141.6	129.6	132.0	133.8	134.4	132.6
80°	79.2	82.2	83.4	96.6	115.2	130.8	115.8	117.6	118.2	118.2	115.8
82.5°	60.6	66.0	69.0	83.4	88.2	109.8	100.8	102.6	100.8	97.2	96.0
85°	42.0	49.2	52.8	63.6	66.6	84.6	84.0	84.0	80.4	75.6	75.0
87.5°	22.8	27.0	29.4	37.8	45.6	57.0	61.8	60.0	57.0	54.0	54.6
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°	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4
2.5°	3309.1	3390.7	3520.9	3620.5	3720.8	3817.4	3921.8	4001.6	4069.4	4095.8	4176.2
5°	2660.9	2763.0	2886.0	3108.0	3265.3	3438.7	3639.1	3904.4	4006.4	4147.4	4378.5
7.5°	1881.4	1973.8	2171.8	2351.3	2573.9	2819.4	3090.0	3456.1	3589.9	3816.2	4192.5
10°	1404.9	1512.3	1671.3	1822.6	2018.8	2269.7	2580.5	2989.8	3152.4	3397.9	3831.2
12.5°	1131.8	1258.5	1427.1	1569.3	1721.2	1898.2	2200.0	2648.9	2866.8	3081.6	3519.7
15°	869.6	1002.2	1158.8	1339.5	1506.9	1697.7	2014.0	2504.9	2755.8	2979.6	3353.5
17.5°	601.9	715.3	912.8	1101.2	1315.5	1559.7	1962.4	2535.5	2835.0	3093.0	3382.3
20°	426.7	491.5	653.5	872.0	1139.0	1445.7	1952.8	2696.3	3085.8	3380.5	3567.1
22.5°	358.9	382.9	477.1	677.5	986.0	1360.5	1986.4	2922.0	3424.3	3800.6	3861.8
25°	327.1	341.5	390.7	531.7	849.8	1298.7	2099.8	3258.1	3843.2	4220.7	4209.9
27.5°	309.7	324.7	357.1	448.9	747.2	1260.3	2213.3	3656.5	4322.1	4676.8	4542.3
30°	304.3	324.7	358.9	423.1	673.9	1199.6	2306.3	4006.4	4690.6	4984.6	4693.6
32.5°	300.1	303.1	318.7	364.9	604.3	1128.8	2369.3	4320.3	5051.2	5277.5	4911.4
35°	242.4	257.5	282.7	327.1	563.5	1086.2	2369.3	4590.9	5406.5	5573.3	5119.0
37.5°	233.4	246.7	268.9	306.7	540.7	1065.2	2321.9	4852.0	5769.6	5908.8	5290.1
40°	228.6	239.4	260.5	291.1	531.1	1041.2	2252.9	5082.4	6124.2	6244.9	5449.7
42.5°	225.0	234.6	254.5	281.5	518.5	1014.8	2197.0	5267.3	6432.1	6531.7	5602.1
45°	223.2	233.4	255.1	286.3	493.3	980.0	2178.4	5467.1	6685.4	6771.2	5767.2
47.5°	223.2	235.2	258.1	296.5	463.3	944.0	2236.7	5730.6	6924.8	6966.8	5961.6
50°	221.4	234.6	266.5	286.3	419.5	898.4	2373.5	6062.4	7184.1	7188.9	6207.7
52.5°	217.8	233.4	286.9	280.3	369.1	838.4	2558.3	6488.5	7567.5	7596.3	6592.9
55°	213.6	231.6	281.5	266.5	327.7	767.0	2709.6	7006.4	8106.4	8186.3	7159.5
57.5°	208.2	229.2	272.5	247.3	300.7	675.1	2764.2	7385.7	8482.7	8683.2	7798.0
60°	203.4	227.4	246.1	235.8	283.9	597.7	2658.5	7310.7	8456.9	8889.0	8363.9
62.5°	198.6	229.2	224.4	228.6	276.1	547.9	2382.5	6710.0	8029.0	8676.6	8783.4
65°	193.2	213.0	211.8	222.6	274.3	528.1	1975.0	5809.2	7202.1	8005.0	8882.4
67.5°	186.0	196.8	202.8	214.8	280.3	510.7	1593.9	4792.0	6052.8	6998.6	8366.3
70°	178.2	187.2	193.8	205.2	276.7	502.9	1325.7	3779.0	4802.8	5736.0	7347.9
72.5°	168.0	175.8	181.8	192.6	273.1	498.7	1119.8	3043.2	3585.7	4260.9	5974.2
75°	156.0	163.2	167.4	178.2	261.7	456.7	880.4	2575.1	2683.1	2964.0	4758.4
77.5°	142.2	147.6	151.2	163.2	231.6	379.9	636.7	1986.4	2083.6	2152.0	3648.1
80°	126.0	131.4	133.2	144.6	192.0	297.1	415.3	1467.3	1558.5	1574.1	2382.5
82.5°	107.4	112.8	112.8	123.6	157.2	213.6	272.5	1005.2	1023.2	1076.0	1683.9
85°	86.4	90.6	90.6	96.0	121.8	159.6	187.2	504.7	499.3	570.1	1458.9
87.5°	61.8	64.8	67.8	69.0	87.0	105.6	112.8	153.6	101.4	116.4	936.8
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°	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4	3688.4
2.5°	4236.9	4271.1	4236.3	4211.1	4102.4	4013.0	3893.6	3832.4
5°	4554.3	4641.3	4611.9	4506.3	4279.5	4024.4	3734.6	3603.7
7.5°	4515.9	4718.2	4723.0	4525.5	4191.3	3815.6	3423.1	3237.1
10°	4217.1	4475.7	4549.5	4358.1	4003.4	3583.3	3133.2	2920.8
12.5°	3883.4	4136.6	4193.1	4127.0	3830.6	3408.7	2952.0	2743.8
15°	3610.3	3723.8	3791.0	3848.6	3682.3	3339.1	2941.8	2713.2
17.5°	3444.1	3431.5	3450.7	3550.9	3579.1	3418.9	3097.8	2845.8
20°	3384.1	3191.4	3186.6	3324.7	3530.5	3609.1	3402.7	3100.2
22.5°	3417.1	3105.0	3065.4	3229.3	3556.3	3883.4	3802.4	3457.3
25°	3531.1	3112.2	3080.4	3238.9	3649.9	4175.6	4233.9	3919.4
27.5°	3710.6	3157.8	3115.8	3278.5	3774.2	4421.1	4658.7	4367.1
30°	3881.0	3237.1	3184.8	3356.5	3887.6	4518.3	4919.2	4716.4
32.5°	4088.0	3385.3	3293.5	3499.9	4028.0	4673.2	5151.4	5005.6
35°	4290.9	3596.5	3482.5	3721.4	4184.7	4865.8	5416.7	5375.3
37.5°	4513.5	3872.6	3778.4	4007.6	4398.9	5047.6	5755.2	5808.6
40°	4751.2	4238.7	4127.0	4425.3	4731.4	5275.7	6108.6	6237.1
42.5°	4990.6	4644.9	4511.7	4814.2	5096.8	5500.7	6411.1	6601.3
45°	5264.9	5086.0	5023.0	5350.1	5447.9	5715.0	6634.4	6870.8
47.5°	5584.1	5586.5	5688.0	5818.8	5802.0	5957.4	6858.8	7111.4
50°	5956.8	6211.3	6435.1	6522.1	6166.9	6217.9	7170.3	7433.7
52.5°	6404.5	6958.4	7235.7	7178.7	6559.9	6535.9	7663.6	7877.8
55°	6964.4	7749.4	8024.8	7984.0	7011.8	6969.2	8278.1	8402.9
57.5°	7612.5	8515.7	8769.0	8585.3	7554.3	7444.5	8786.4	8812.8
60°	8182.1	9123.1	9345.1	9141.7	8101.6	7950.4	9103.9	8976.0
62.5°	8498.9	9328.9	9484.9	9265.9	8476.7	8489.3	9173.5	8887.8
65°	8357.3	8808.6	8859.0	8841.0	8380.1	8802.0	8923.2	8480.3
67.5°	7581.9	7493.1	7577.7	7694.8	7551.9	8390.3	8230.1	7592.7
70°	6216.1	5728.2	5896.8	5975.4	6040.2	7220.1	7143.3	6184.3
72.5°	4684.6	4013.0	4146.2	4130.0	4430.1	5791.2	5555.3	4547.1
75°	3319.3	2721.0	2737.8	2731.2	3091.2	4530.9	4022.6	3111.0
77.5°	2322.5	1971.4	1980.4	2017.6	2078.2	3417.1	2874.0	2272.7
80°	1596.9	1496.1	1545.9	1548.9	1440.3	2295.5	2123.2	1823.8
82.5°	1189.4	1040.0	1028.0	1045.4	1128.8	1859.8	1631.7	1265.1
85°	974.0	615.7	495.1	620.5	1000.4	1841.8	1083.8	667.3
87.5°	548.5	292.3	132.0	244.8	399.1	1219.4	313.3	85.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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