

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: P200166

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200166
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-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 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: 9023.4 lumens
Efficiency: N/A
Efficacy: 104.9 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

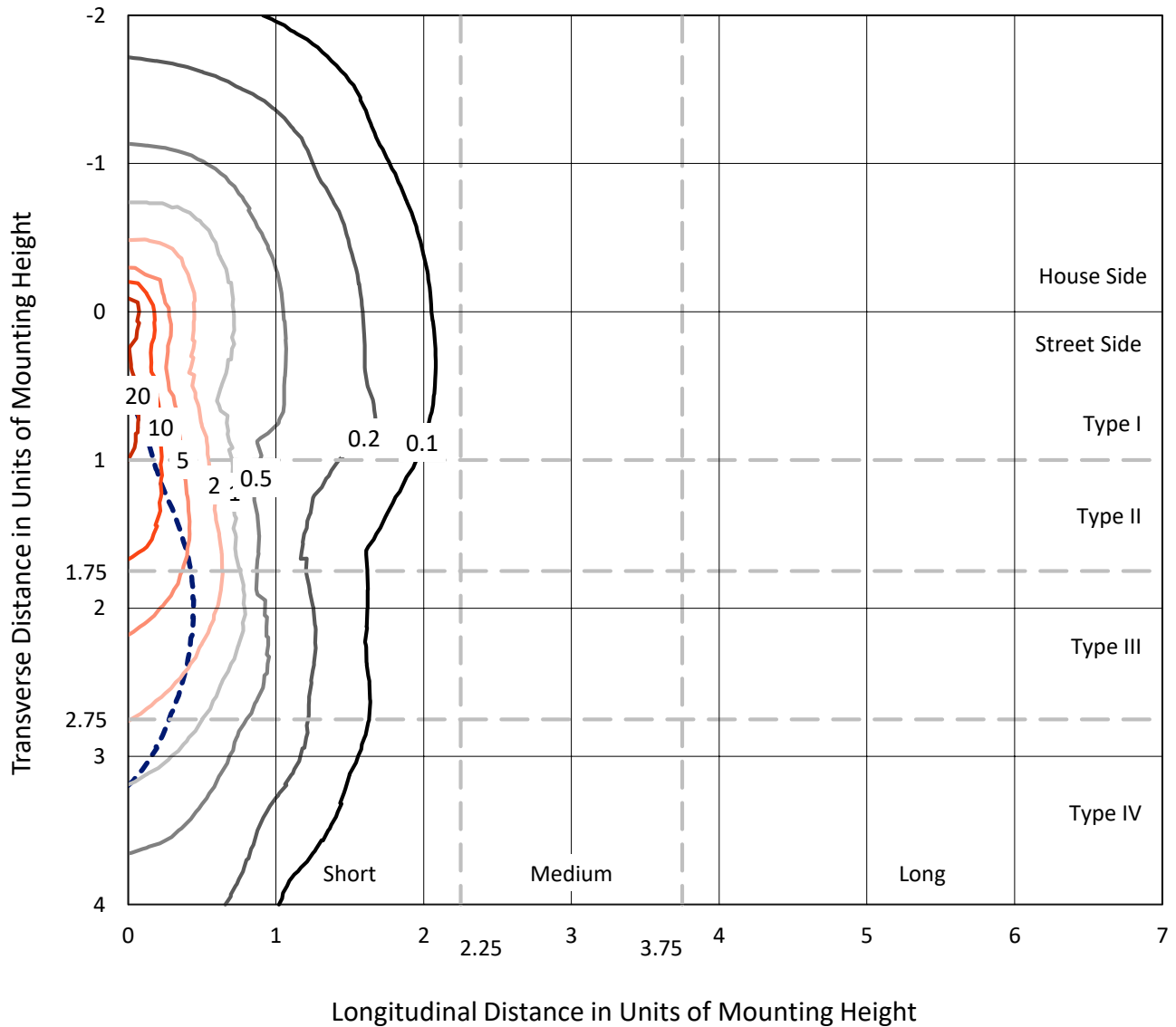
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

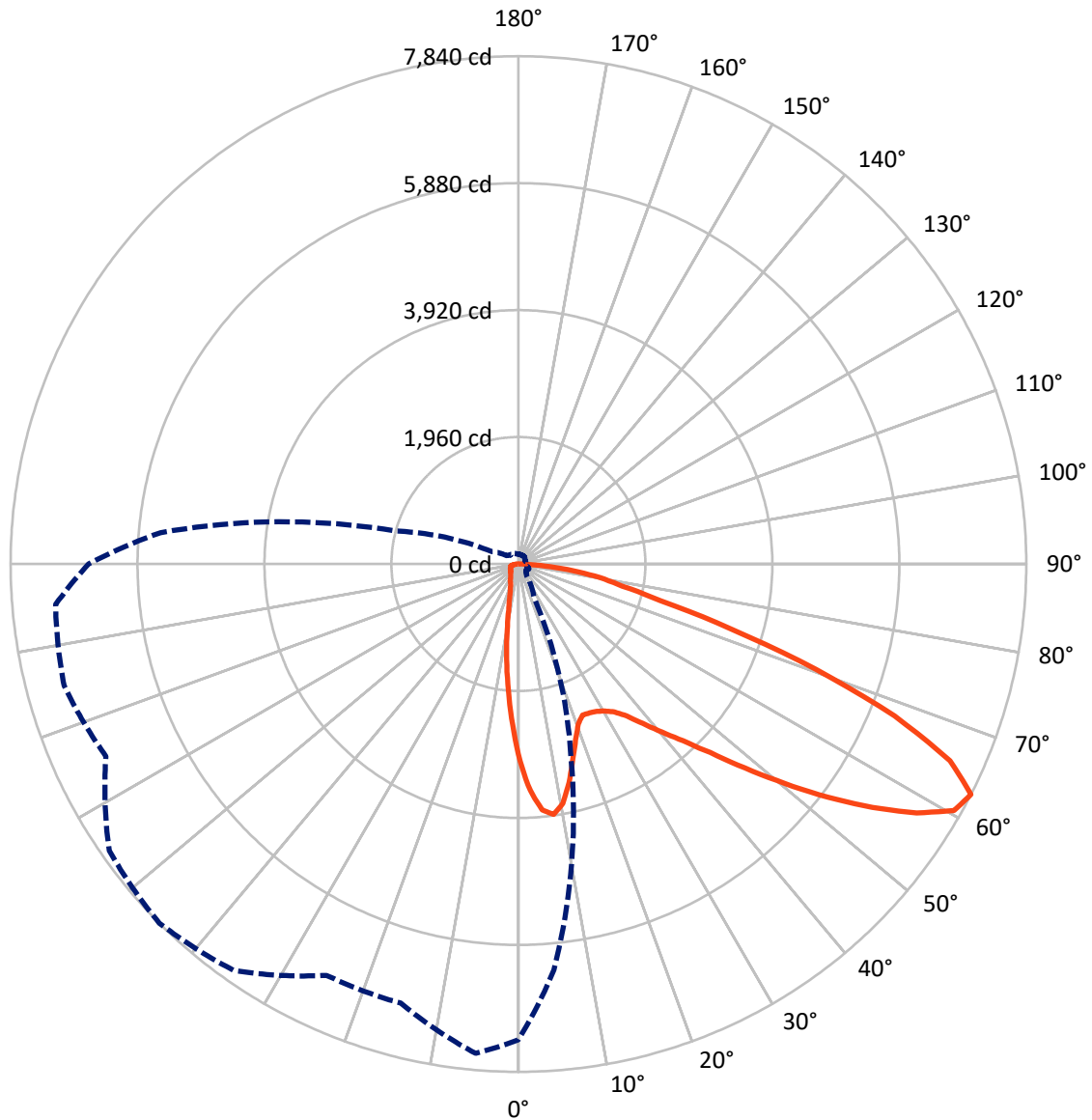
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.5 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	1493.3	0.0	1493.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7530.2	0.0	7530.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	9023.4	0.0	9023.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	2.5
10°-20°	407.0	4.5
20°-30°	593.3	6.6
30°-40°	913.8	10.1
40°-50°	1344.9	14.9
50°-60°	1972.7	21.9
60°-70°	2205.2	24.4
70°-80°	1079.6	12.0
80°-90°	285.1	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°	9023.4	100.0
0°-180°	9023.4	100.0



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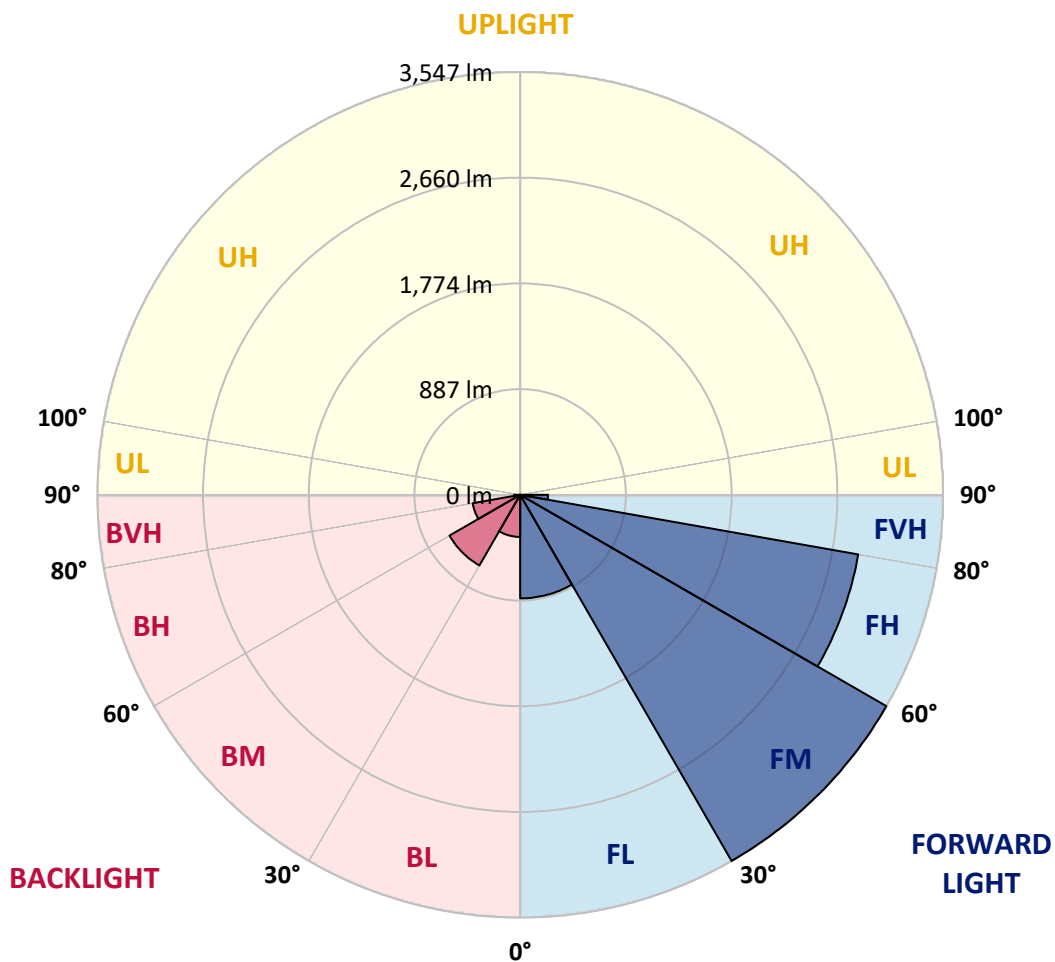
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	868.9	9.6			
FM	(30°-60°)	3547.2	39.3			
FH	(60°-80°)	2880.0	31.9			G2/5000
FVH	(80°-90°)	234.1	2.6			G3/500
BL	(0°-30°)	353.3	3.9	B1/500		
BM	(30°-60°)	684.2	7.6	B1/1000		
BH	(60°-80°)	404.8	4.5	B1/500		G1/500
BVH	(80°-90°)	51.0	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°	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6
2.5°	3167.7	3103.1	2996.0	2884.4	2816.5	2737.1	2675.1	2620.5	2511.4	2490.1	2509.4
5°	2978.6	2849.2	2647.3	2443.9	2308.5	2163.2	2050.1	1959.4	1821.0	1796.6	1825.9
7.5°	2675.6	2520.9	2254.0	1994.5	1803.1	1621.5	1499.5	1402.3	1294.1	1247.5	1250.5
10°	2414.2	2239.5	1924.1	1641.8	1485.1	1362.6	1260.0	1160.2	1050.6	978.7	958.8
12.5°	2267.9	2067.0	1703.4	1451.4	1306.0	1177.1	1066.4	959.8	842.7	769.4	748.5
15°	2242.5	2024.3	1620.6	1329.3	1147.3	984.1	853.7	734.6	614.1	554.5	542.2
17.5°	2352.2	2100.7	1593.8	1220.7	998.0	796.7	636.4	503.5	405.3	375.5	373.0
20°	2562.5	2247.5	1590.3	1118.6	850.7	614.6	443.4	346.7	303.6	295.1	295.6
22.5°	2857.6	2475.2	1632.9	1041.7	715.2	458.3	333.4	290.2	273.3	265.4	265.4
25°	3239.6	2788.7	1731.1	985.6	597.7	366.1	294.1	268.3	252.5	247.0	248.1
27.5°	3609.6	3093.7	1845.2	941.4	520.8	332.4	278.8	255.4	241.5	236.1	238.6
30°	3898.3	3364.6	1940.4	881.5	481.6	322.9	284.2	260.4	240.6	232.1	232.6
32.5°	4137.4	3601.7	2020.3	838.3	446.9	276.8	245.0	234.7	232.1	222.2	217.3
35°	4443.0	3860.1	2073.9	839.3	430.6	247.0	218.3	199.9	186.5	175.1	175.1
37.5°	4801.1	4156.8	2130.9	850.7	424.6	229.7	208.8	190.5	178.1	167.2	165.2
40°	5155.3	4447.4	2183.1	861.6	421.1	219.2	201.4	184.5	173.1	162.2	159.3
42.5°	5456.3	4686.5	2229.6	867.1	409.2	218.3	195.9	180.6	169.6	157.7	154.8
45°	5679.0	4886.9	2279.7	875.5	397.3	222.2	195.9	180.0	166.6	155.3	152.3
47.5°	5878.0	5122.0	2363.6	875.5	382.9	214.8	202.3	180.6	166.1	154.3	151.8
50°	6144.4	5444.5	2522.3	855.2	362.6	206.8	213.3	178.6	161.7	152.3	149.4
52.5°	6511.4	5857.6	2774.3	819.9	331.3	191.5	211.9	177.6	157.2	147.3	143.8
55°	6945.4	6300.0	3049.1	778.8	284.7	180.6	204.4	175.1	152.3	141.4	137.9
57.5°	7284.2	6604.7	3242.5	715.2	244.1	174.6	181.1	172.6	146.3	134.9	132.0
60°	7419.2	6592.7	3295.6	630.4	224.2	169.6	158.3	193.4	141.4	129.9	126.5
62.5°	7346.2	6288.2	3146.8	570.9	219.7	163.2	148.3	179.0	137.4	126.5	121.5
65°	7009.5	5748.5	2752.5	555.1	232.6	156.7	141.9	140.3	132.0	121.5	116.6
67.5°	6275.8	4942.0	2203.8	556.6	249.0	150.3	135.4	128.5	124.5	116.1	111.6
70°	5111.6	3907.3	1642.9	560.5	257.5	142.9	128.5	121.0	116.6	108.1	105.2
72.5°	3758.4	3011.4	1193.5	534.7	258.9	134.4	119.1	112.6	108.1	99.2	96.8
75°	2571.4	2303.6	827.9	442.9	225.7	122.5	108.6	102.7	99.7	88.8	87.3
77.5°	1878.4	1729.2	529.8	328.9	174.1	107.6	95.7	91.2	89.3	77.3	75.4
80°	1507.4	1368.1	331.3	225.2	127.5	90.3	80.4	77.8	75.9	64.0	62.5
82.5°	1045.7	916.2	212.8	146.3	95.7	70.0	63.5	62.5	59.5	48.6	47.2
85°	551.6	497.6	134.9	99.7	69.5	48.1	44.2	44.2	42.7	32.2	31.2
87.5°	70.5	114.6	68.4	52.1	38.2	21.4	21.4	20.9	22.3	18.3	15.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6
2.5°	2463.8	2487.6	2464.8	2466.2	2491.6	2567.0	2601.2	2629.5	2659.7	2679.5	2688.5
5°	1785.7	1841.3	1860.1	1899.8	1958.3	2054.6	2092.8	2120.6	2138.9	2149.8	2154.2
7.5°	1221.2	1255.0	1292.7	1356.6	1484.1	1540.7	1565.9	1559.5	1538.7	1531.3	1523.8
10°	920.7	907.3	900.3	935.5	1038.7	1095.7	1113.6	1096.2	1084.8	1087.3	1099.7
12.5°	713.3	690.0	661.7	657.8	725.7	776.8	788.2	789.2	810.0	828.4	855.7
15°	519.9	517.4	503.5	495.0	533.8	575.4	580.3	589.3	608.1	621.5	645.4
17.5°	366.5	379.9	390.9	396.3	425.5	455.3	449.9	445.4	441.9	441.9	453.4
20°	295.6	304.5	318.4	334.3	364.1	384.9	371.5	353.6	340.7	336.8	338.3
22.5°	266.4	273.3	281.2	295.1	321.9	336.3	321.9	309.0	296.1	291.6	290.2
25°	251.4	260.4	267.8	278.2	298.1	308.0	294.1	284.7	276.8	271.3	267.4
27.5°	243.1	251.0	253.0	257.9	274.8	283.8	276.8	272.8	267.8	262.9	257.9
30°	234.2	232.6	229.1	229.7	243.1	252.0	251.4	252.5	252.0	250.5	249.5
32.5°	213.8	210.8	207.9	210.8	223.2	231.2	231.6	233.6	233.6	233.1	237.1
35°	178.1	183.5	187.0	195.9	210.8	217.8	214.8	209.8	200.9	195.5	195.0
37.5°	164.7	165.7	171.7	184.0	200.4	206.8	202.3	191.0	185.1	184.0	185.6
40°	158.3	159.3	162.6	174.1	190.5	196.9	192.9	184.5	179.0	178.6	181.1
42.5°	153.7	154.8	156.7	164.7	178.1	186.0	186.5	180.6	174.1	174.6	177.1
45°	151.3	151.8	151.3	155.3	167.7	177.1	181.1	177.1	171.7	172.6	175.6
47.5°	150.8	149.4	147.3	148.3	161.2	170.6	175.6	174.1	171.7	172.6	175.1
50°	148.8	145.4	142.9	142.4	155.3	165.2	169.6	169.6	170.6	172.6	175.1
52.5°	142.9	138.9	138.9	137.4	151.3	160.7	163.7	164.2	165.7	169.2	172.6
55°	135.4	133.9	135.4	133.0	148.3	157.2	158.8	159.7	160.7	163.7	168.7
57.5°	129.0	126.9	130.4	129.5	145.9	153.7	153.7	155.8	155.8	159.7	163.7
60°	125.5	121.5	123.1	124.0	142.4	150.8	149.8	151.8	152.7	156.2	159.3
62.5°	121.0	117.5	117.5	120.0	138.4	146.3	145.9	147.3	151.3	152.3	155.3
65°	115.6	114.1	112.6	115.6	134.4	141.4	141.9	143.8	147.3	148.3	150.8
67.5°	110.1	110.6	107.6	110.6	130.9	136.4	136.4	140.3	141.9	143.8	146.3
70°	104.1	104.6	102.2	105.7	128.5	130.9	130.4	136.0	136.9	138.4	140.9
72.5°	96.8	96.8	95.7	100.7	124.5	125.5	124.5	129.0	129.5	130.9	132.0
75°	88.8	88.8	87.8	94.7	122.0	119.6	116.6	120.0	121.0	122.0	122.0
77.5°	78.4	79.4	79.4	87.8	113.5	117.0	107.1	109.1	110.6	111.1	109.7
80°	65.5	67.9	68.9	79.9	95.2	108.1	95.7	97.2	97.7	97.7	95.7
82.5°	50.1	54.5	57.1	68.9	72.9	90.7	83.4	84.8	83.4	80.4	79.4
85°	34.7	40.7	43.7	52.6	55.0	70.0	69.5	69.5	66.5	62.5	62.0
87.5°	18.8	22.3	24.3	31.2	37.7	47.2	51.0	49.6	47.2	44.6	45.1
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°	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6
2.5°	2735.2	2802.6	2910.2	2992.5	3075.4	3155.3	3241.5	3307.5	3363.6	3385.5	3451.8
5°	2199.4	2283.7	2385.4	2568.9	2699.0	2842.3	3007.9	3227.2	3311.5	3428.1	3619.0
7.5°	1555.1	1631.4	1795.2	1943.4	2127.4	2330.4	2554.1	2856.7	2967.3	3154.3	3465.2
10°	1161.3	1250.0	1381.5	1506.4	1668.6	1876.0	2133.0	2471.2	2605.7	2808.5	3166.6
12.5°	935.5	1040.1	1179.6	1297.1	1422.6	1568.9	1818.5	2189.5	2369.6	2547.1	2909.3
15°	718.7	828.4	957.8	1107.1	1245.5	1403.3	1664.6	2070.5	2277.8	2462.8	2771.8
17.5°	497.6	591.3	754.4	910.2	1087.3	1289.2	1622.0	2095.7	2343.3	2556.6	2795.6
20°	352.7	406.2	540.2	720.8	941.4	1194.9	1614.1	2228.7	2550.6	2794.2	2948.5
22.5°	296.7	316.5	394.3	560.1	815.0	1124.5	1641.8	2415.2	2830.4	3141.4	3191.9
25°	270.4	282.2	322.9	439.5	702.4	1073.4	1735.6	2692.9	3176.6	3488.6	3479.7
27.5°	255.9	268.3	295.1	371.0	617.6	1041.7	1829.3	3022.3	3572.5	3865.5	3754.4
30°	251.4	268.3	296.7	349.7	557.0	991.5	1906.3	3311.5	3877.0	4120.0	3879.4
32.5°	248.1	250.5	263.4	301.6	499.5	933.0	1958.3	3570.9	4175.1	4362.1	4059.5
35°	200.4	212.8	233.6	270.4	465.7	897.8	1958.3	3794.6	4468.8	4606.7	4231.1
37.5°	192.9	203.9	222.2	253.5	446.9	880.5	1919.2	4010.4	4768.8	4883.9	4372.5
40°	188.9	197.9	215.2	240.6	438.9	860.6	1862.1	4200.8	5062.0	5161.7	4504.5
42.5°	186.0	194.0	210.3	232.6	428.6	838.8	1815.9	4353.7	5316.5	5398.8	4630.5
45°	184.5	192.9	210.8	236.6	407.7	810.0	1800.6	4518.9	5525.8	5596.8	4766.8
47.5°	184.5	194.5	213.3	245.0	382.9	780.3	1848.7	4736.6	5723.7	5758.4	4927.6
50°	183.0	194.0	220.2	236.6	346.7	742.6	1961.8	5010.9	5938.0	5941.9	5130.9
52.5°	180.0	192.9	237.1	231.6	305.0	692.9	2114.5	5363.1	6254.9	6278.8	5449.4
55°	176.6	191.5	232.6	220.2	270.9	633.9	2239.5	5791.1	6700.4	6766.4	5917.7
57.5°	172.2	189.5	225.2	204.4	248.5	558.0	2284.8	6104.7	7011.4	7177.1	6445.4
60°	168.2	188.0	203.4	195.0	234.7	494.1	2197.4	6042.7	6990.0	7347.2	6913.2
62.5°	164.2	189.5	185.6	188.9	228.2	452.9	1969.3	5546.1	6636.4	7171.6	7259.9
65°	159.7	176.0	175.1	184.0	226.7	436.5	1632.4	4801.6	5952.9	6616.5	7341.7
67.5°	153.7	162.6	167.7	177.6	231.6	422.2	1317.5	3960.8	5002.9	5784.7	6915.1
70°	147.3	154.8	160.2	169.6	228.6	415.6	1095.7	3123.5	3969.8	4741.1	6073.4
72.5°	138.9	145.4	150.3	159.3	225.7	412.2	925.6	2515.3	2963.8	3521.8	4938.0
75°	129.0	134.9	138.4	147.3	216.3	377.5	727.7	2128.5	2217.8	2449.9	3933.0
77.5°	117.5	122.0	125.0	134.9	191.5	313.9	526.3	1641.8	1722.2	1778.8	3015.4
80°	104.1	108.6	110.1	119.6	158.8	245.5	343.3	1212.8	1288.2	1301.1	1969.3
82.5°	88.8	93.3	93.3	102.2	129.9	176.6	225.2	830.8	845.8	889.4	1391.8
85°	71.4	74.9	74.9	79.4	100.7	132.0	154.8	417.2	412.7	471.3	1205.9
87.5°	51.0	53.6	56.1	57.1	71.9	87.3	93.3	126.9	83.8	96.3	774.3
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°	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6	3048.6
2.5°	3502.0	3530.2	3501.5	3480.7	3390.9	3316.9	3218.2	3167.7
5°	3764.4	3836.3	3812.0	3724.7	3537.2	3326.4	3086.8	2978.6
7.5°	3732.6	3899.8	3903.8	3740.5	3464.3	3153.8	2829.4	2675.6
10°	3485.6	3699.4	3760.4	3602.2	3309.0	2961.9	2589.8	2414.2
12.5°	3209.8	3419.1	3465.8	3411.2	3166.1	2817.4	2439.9	2267.9
15°	2984.2	3077.9	3133.4	3181.1	3043.7	2759.9	2431.6	2242.5
17.5°	2846.8	2836.3	2852.2	2935.1	2958.4	2825.9	2560.5	2352.2
20°	2797.2	2637.9	2633.9	2748.1	2918.2	2983.1	2812.5	2562.5
22.5°	2824.4	2566.5	2533.7	2669.2	2939.4	3209.8	3142.8	2857.6
25°	2918.7	2572.4	2546.1	2677.1	3016.9	3451.3	3499.5	3239.6
27.5°	3067.0	2610.2	2575.4	2709.8	3119.5	3654.3	3850.7	3609.6
30°	3207.9	2675.6	2632.5	2774.3	3213.3	3734.6	4065.9	3898.3
32.5°	3379.0	2798.1	2722.2	2892.8	3329.4	3862.6	4257.9	4137.4
35°	3546.7	2972.7	2878.5	3075.9	3458.8	4021.8	4477.1	4443.0
37.5°	3730.6	3200.9	3123.0	3312.5	3635.9	4172.1	4756.9	4801.1
40°	3927.1	3503.5	3411.2	3657.8	3910.7	4360.6	5049.1	5155.3
42.5°	4124.9	3839.2	3729.2	3979.2	4212.8	4546.6	5299.1	5456.3
45°	4351.6	4203.8	4151.7	4422.1	4502.9	4723.7	5483.6	5679.0
47.5°	4615.6	4617.6	4701.4	4809.5	4795.6	4924.1	5669.1	5878.0
50°	4923.6	5133.9	5318.9	5390.8	5097.3	5139.4	5926.6	6144.4
52.5°	5293.7	5751.4	5980.7	5933.5	5422.2	5402.3	6334.3	6511.4
55°	5756.5	6405.2	6632.9	6599.2	5795.6	5760.4	6842.2	6945.4
57.5°	6292.2	7038.7	7248.0	7096.2	6244.0	6153.3	7262.4	7284.2
60°	6762.9	7540.7	7724.2	7556.0	6696.4	6571.4	7524.8	7419.2
62.5°	7024.8	7710.8	7839.8	7658.7	7006.4	7016.8	7582.3	7346.2
65°	6907.7	7280.8	7322.4	7307.6	6926.6	7275.3	7375.5	7009.5
67.5°	6266.9	6193.5	6263.4	6360.1	6242.0	6935.0	6802.5	6275.8
70°	5137.9	4734.6	4874.0	4939.0	4992.5	5967.8	5904.3	5111.6
72.5°	3872.0	3316.9	3427.1	3413.7	3661.7	4786.7	4591.7	3758.4
75°	2743.6	2249.0	2262.9	2257.4	2555.0	3745.0	3324.9	2571.4
77.5°	1919.7	1629.5	1636.9	1667.6	1717.7	2824.4	2375.5	1878.4
80°	1319.9	1236.6	1277.8	1280.2	1190.5	1897.4	1755.0	1507.4
82.5°	983.2	859.6	849.7	864.1	933.0	1537.2	1348.7	1045.7
85°	805.1	508.9	409.2	512.9	826.9	1522.4	895.8	551.6
87.5°	453.4	241.5	109.1	202.3	329.9	1007.9	258.9	70.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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