

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: P200640

Luminaire Tested: **GWC-AF-02-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200640
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-SLL-8030
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8908 lumens
Efficiency: N/A
Efficacy: 78.8 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

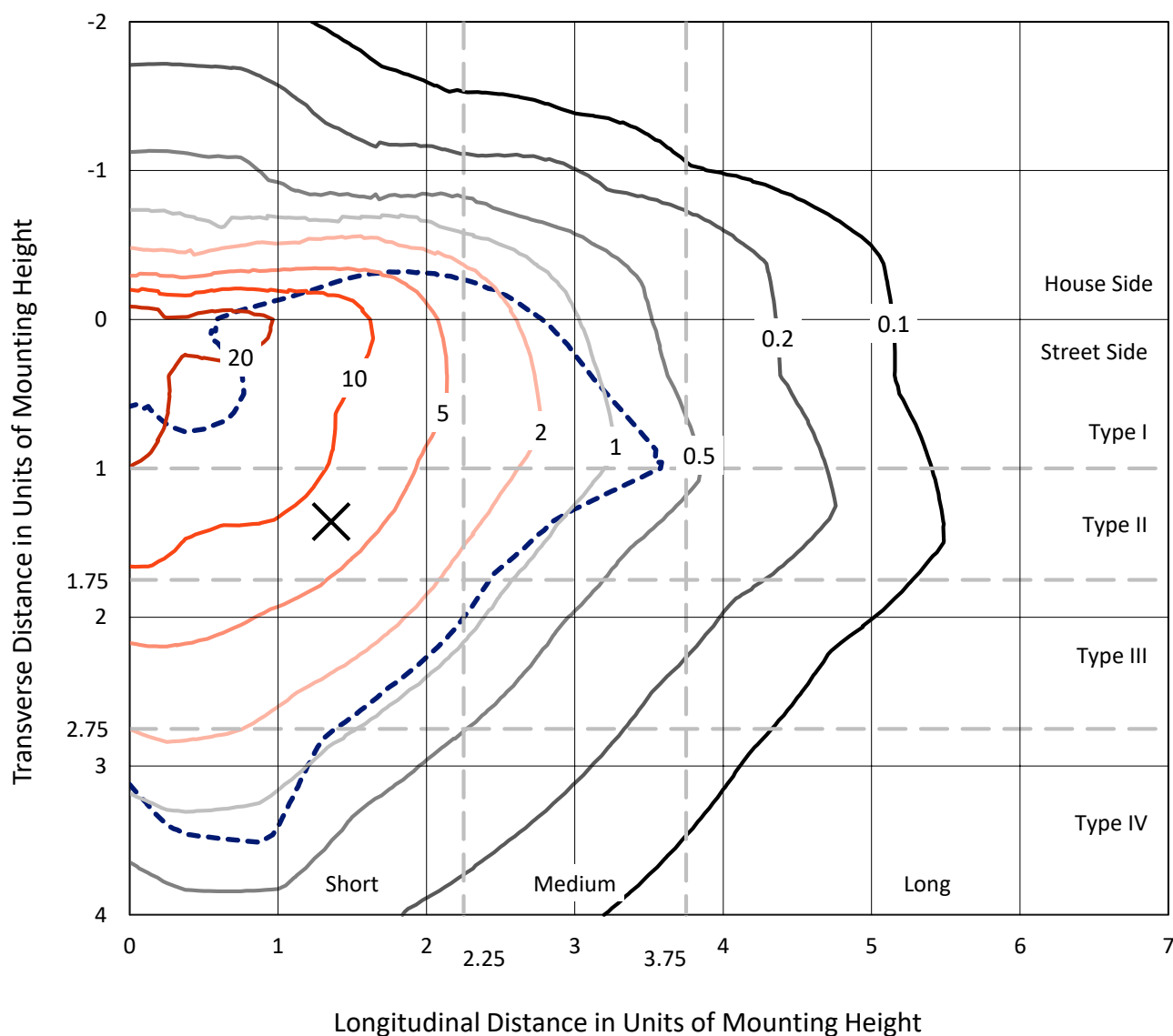


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

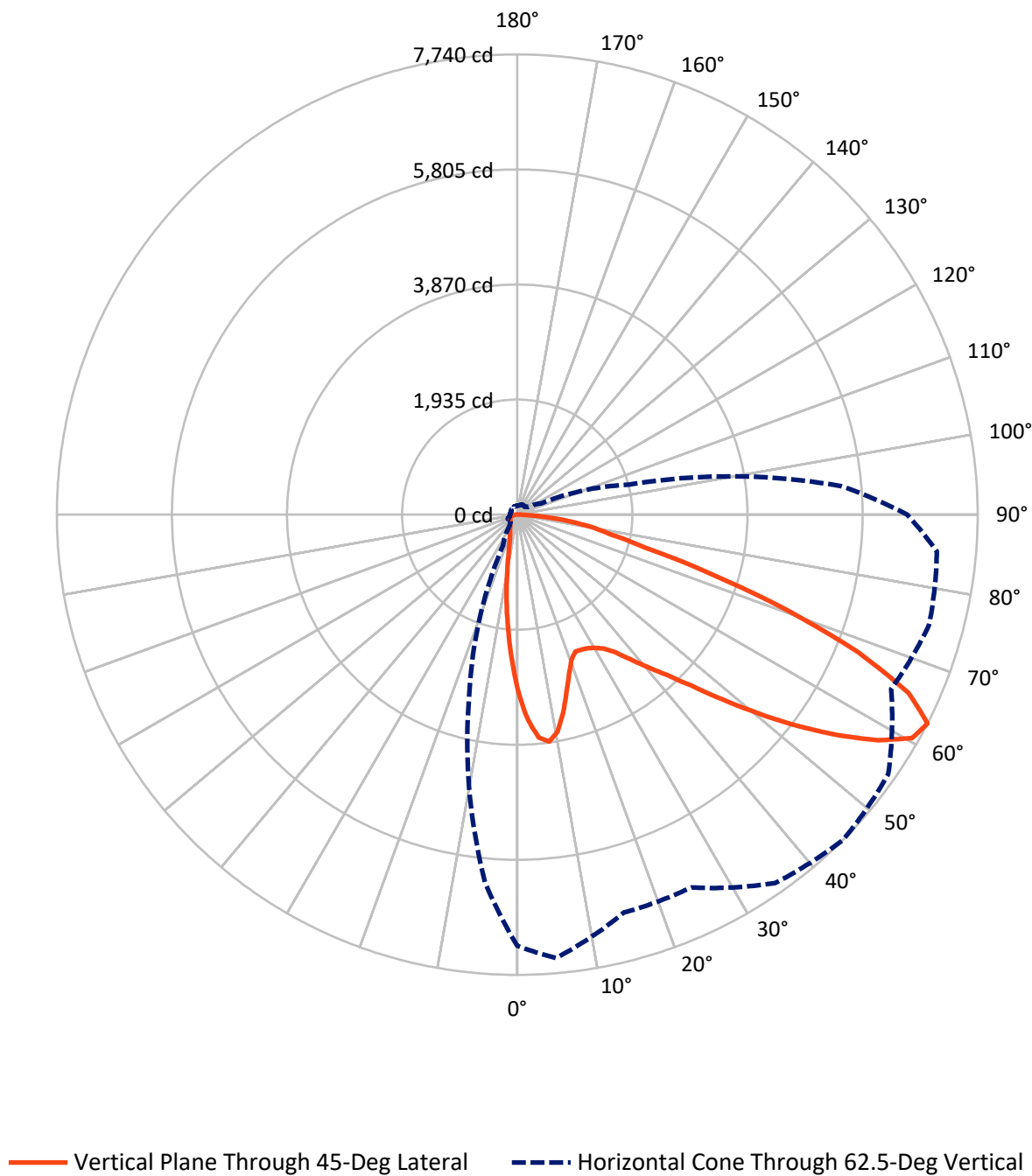


Based on 10 foot mounting height. Maximum calculated value = 35.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1474.2	0.0	1474.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7433.8	0.0	7433.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	8908.0	0.0	8908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	2.5
10°-20°	401.7	4.5
20°-30°	585.7	6.6
30°-40°	902.1	10.1
40°-50°	1327.7	14.9
50°-60°	1947.4	21.9
60°-70°	2177.0	24.4
70°-80°	1065.8	12.0
80°-90°	281.4	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°	8908.0	100.0
0°-180°	8908.0	100.0

Coefficient of Utilization



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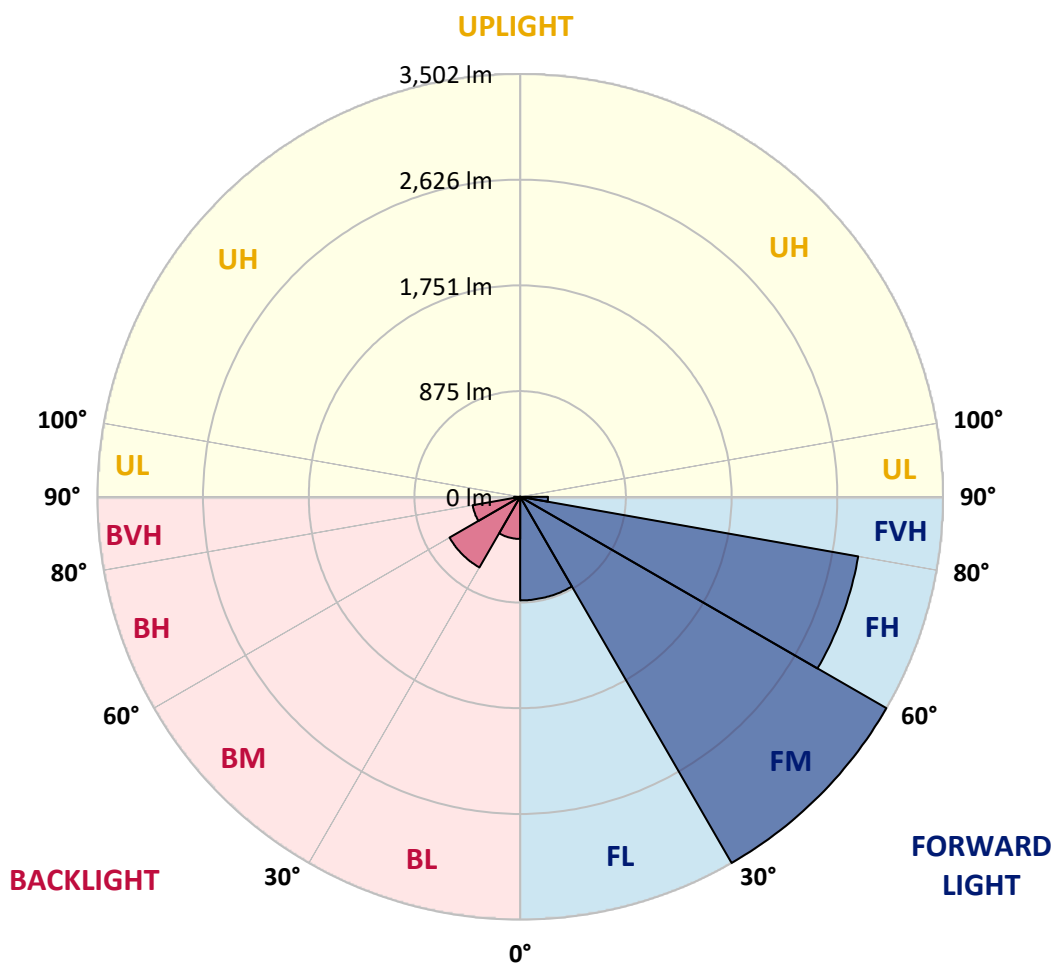
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	857.8	9.6			
FM	(30°-60°)	3501.8	39.3			
FH	(60°-80°)	2843.1	31.9			G2/5000
FVH	(80°-90°)	231.1	2.6			G3/500
BL	(0°-30°)	348.8	3.9	B1/500		
BM	(30°-60°)	675.4	7.6	B1/1000		
BH	(60°-80°)	399.6	4.5	B1/500		G1/500
BVH	(80°-90°)	50.3	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°	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6
2.5°	3127.1	3177.1	3274.5	3347.5	3436.1	3456.7	3485.1	3457.2	3407.7	3342.1	3320.6
5°	2940.6	3047.3	3283.8	3491.9	3677.0	3763.2	3787.2	3716.2	3572.7	3384.2	3269.1
7.5°	2641.4	2793.2	3113.4	3420.0	3692.7	3853.8	3849.9	3684.9	3420.9	3113.9	2929.3
10°	2383.3	2556.6	2923.9	3266.7	3556.1	3712.3	3652.1	3441.0	3126.1	2772.6	2572.3
12.5°	2238.8	2408.8	2781.4	3125.7	3367.6	3421.4	3375.4	3168.7	2872.0	2514.5	2339.2
15°	2213.9	2400.4	2724.6	3004.7	3140.3	3093.3	3038.5	2945.9	2736.4	2431.3	2248.6
17.5°	2322.1	2527.8	2789.7	2920.5	2897.5	2815.7	2800.0	2810.3	2759.9	2523.8	2313.3
20°	2529.7	2776.5	2945.0	2880.8	2712.9	2600.2	2604.1	2761.3	2910.7	2758.4	2518.0
22.5°	2821.1	3102.6	3168.7	2901.9	2635.0	2501.3	2533.6	2788.3	3151.1	3101.2	2794.1
25°	3198.1	3454.7	3407.2	2978.3	2642.8	2513.6	2539.5	2881.3	3435.1	3444.0	3135.9
27.5°	3563.4	3801.4	3607.5	3079.6	2675.1	2542.4	2576.7	3027.7	3706.4	3816.1	3526.7
30°	3848.4	4013.9	3686.8	3172.2	2738.8	2598.8	2641.4	3166.8	3829.8	4067.3	3827.4
32.5°	4084.5	4203.5	3813.2	3286.8	2855.8	2687.4	2762.3	3335.7	4007.6	4306.3	4121.7
35°	4386.1	4419.9	3970.4	3414.6	3036.5	2841.6	2934.7	3501.2	4177.0	4547.7	4411.6
37.5°	4739.7	4696.1	4118.7	3589.4	3270.1	3083.1	3159.9	3682.9	4316.6	4821.4	4707.8
40°	5089.3	4984.5	4304.8	3860.7	3610.9	3367.6	3458.6	3876.8	4446.8	5095.7	4997.2
42.5°	5386.5	5231.3	4488.5	4158.9	3928.3	3681.4	3790.2	4072.2	4571.2	5329.7	5248.4
45°	5606.4	5413.5	4663.3	4445.4	4365.5	4098.7	4150.1	4296.0	4705.9	5525.1	5455.1
47.5°	5802.8	5596.6	4861.1	4734.3	4748.0	4641.2	4558.5	4556.5	4864.5	5684.7	5650.5
50°	6065.7	5850.8	5073.6	5032.0	5321.9	5250.9	5068.2	4860.6	5065.3	5865.9	5862.0
52.5°	6428.1	6253.3	5333.2	5352.7	5857.6	5904.1	5677.9	5225.9	5379.7	6198.4	6174.9
55°	6856.6	6754.7	5686.7	5721.5	6514.8	6548.1	6323.3	5682.8	5841.9	6679.8	6614.7
57.5°	7191.0	7169.5	6074.5	6164.2	7005.4	7155.3	6948.6	6211.7	6363.0	7085.2	6921.7
60°	7324.2	7428.5	6487.3	6610.7	7459.4	7625.4	7444.2	6676.4	6824.7	7253.2	6900.6
62.5°	7252.2	7485.3	6927.1	6916.8	7560.7	7739.5	7612.1	6934.9	7167.0	7079.9	6551.5
65°	6919.7	7281.1	7182.2	6838.0	7214.0	7228.7	7187.6	6819.3	7247.8	6531.9	5876.7
67.5°	6195.5	6715.5	6846.3	6162.2	6278.7	6183.2	6114.2	6186.7	6826.7	5710.7	4939.0
70°	5046.2	5828.7	5891.4	4928.7	4875.8	4811.6	4674.0	5072.2	5995.7	4680.4	3918.9
72.5°	3710.3	4533.0	4725.5	3614.9	3370.0	3383.2	3274.5	3822.5	4874.8	3476.8	2925.9
75°	2538.5	3282.4	3697.1	2522.4	2228.6	2233.9	2220.2	2708.4	3882.7	2418.6	2189.4
77.5°	1854.4	2345.1	2788.3	1695.8	1646.3	1616.0	1608.6	1895.1	2976.8	1756.0	1700.2
80°	1488.2	1732.5	1873.0	1175.2	1263.9	1261.4	1220.8	1303.1	1944.0	1284.4	1271.7
82.5°	1032.3	1331.5	1517.5	921.1	853.0	838.8	848.6	970.6	1374.1	878.0	834.9
85°	544.5	884.4	1502.8	816.3	506.3	404.0	502.4	794.8	1190.4	465.2	407.4
87.5°	69.5	255.6	995.0	325.6	199.8	107.7	238.5	447.6	764.4	95.0	82.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6
2.5°	3265.2	3200.1	3114.9	3036.0	2954.3	2873.0	2766.7	2700.1	2654.1	2645.3	2625.7
5°	3185.9	2969.4	2805.9	2664.4	2536.1	2354.9	2254.5	2171.3	2126.7	2122.3	2111.5
7.5°	2820.1	2521.4	2300.5	2100.3	1918.6	1772.2	1610.6	1535.2	1504.3	1511.7	1519.0
10°	2439.6	2105.6	1852.0	1647.3	1487.2	1363.8	1234.0	1146.4	1085.6	1073.4	1070.9
12.5°	2161.5	1795.2	1548.9	1404.4	1280.5	1164.5	1026.9	923.5	844.7	817.8	799.7
15°	2043.9	1643.4	1385.3	1229.6	1093.0	945.6	817.8	709.6	637.1	613.6	600.4
17.5°	2068.9	1601.3	1272.7	1073.4	898.6	744.8	583.7	491.2	447.6	436.3	436.3
20°	2200.2	1593.4	1179.7	929.4	711.5	533.3	401.1	348.2	334.0	332.5	336.4
22.5°	2384.3	1620.9	1110.1	804.6	552.9	389.3	312.4	292.8	286.5	287.9	292.3
25°	2658.5	1713.4	1059.7	693.4	433.9	318.8	278.6	266.9	263.9	267.9	273.2
27.5°	2983.6	1806.0	1028.3	609.7	366.3	291.4	264.9	252.7	254.6	259.5	264.4
30°	3269.1	1881.9	978.9	549.9	345.2	292.8	264.9	248.3	246.3	247.3	248.8
32.5°	3525.2	1933.3	921.1	493.1	297.7	260.0	247.3	244.8	234.1	230.2	230.6
35°	3746.1	1933.3	886.3	459.8	266.9	230.6	210.1	197.8	192.4	192.9	198.3
37.5°	3959.1	1894.6	869.2	441.2	250.2	219.4	201.3	190.5	183.1	181.7	182.7
40°	4147.1	1838.3	849.6	433.4	237.5	212.5	195.4	186.6	178.7	176.3	176.8
42.5°	4298.0	1792.7	828.1	423.1	229.7	207.6	191.5	183.6	174.8	172.4	171.9
45°	4461.0	1777.6	799.7	402.5	233.6	208.1	190.5	182.2	173.3	170.4	169.4
47.5°	4676.0	1825.1	770.3	378.0	241.9	210.6	192.0	182.2	172.9	170.4	169.4
50°	4946.8	1936.7	733.1	342.3	233.6	217.4	191.5	180.7	172.9	170.4	168.5
52.5°	5294.5	2087.5	684.1	301.2	228.7	234.1	190.5	177.8	170.4	167.0	163.6
55°	5717.1	2210.9	625.8	267.4	217.4	229.7	189.0	174.3	166.5	161.6	158.7
57.5°	6026.5	2255.5	550.9	245.3	201.8	222.3	187.1	169.9	161.6	157.7	153.8
60°	5965.3	2169.3	487.7	231.6	192.4	200.8	185.6	166.0	157.2	154.3	150.8
62.5°	5475.2	1944.0	447.1	225.3	186.6	183.1	187.1	162.1	153.3	150.3	149.4
65°	4740.1	1611.6	430.9	223.8	181.7	172.9	173.8	157.7	148.9	146.4	145.4
67.5°	3910.1	1300.6	416.7	228.7	175.3	165.5	160.6	151.8	144.5	142.0	140.0
70°	3083.5	1081.7	410.4	225.7	167.5	158.2	152.8	145.4	139.1	136.6	135.2
72.5°	2483.2	913.8	406.9	222.8	157.2	148.4	143.5	137.1	130.3	129.3	127.8
75°	2101.2	718.4	372.7	213.5	145.4	136.6	133.2	127.3	120.5	120.5	119.5
77.5°	1620.9	519.6	310.0	189.0	133.2	123.4	120.5	116.1	108.2	109.7	109.2
80°	1197.3	338.9	242.4	156.7	118.0	108.7	107.2	102.8	94.5	96.5	96.5
82.5°	820.2	222.3	174.3	128.3	100.9	92.1	92.1	87.7	78.3	79.3	82.3
85°	411.8	152.8	130.3	99.4	78.3	73.9	73.9	70.5	61.2	61.7	65.6
87.5°	125.4	92.1	86.2	71.0	56.3	55.3	52.9	50.4	44.6	44.1	46.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6
2.5°	2595.8	2567.9	2534.1	2459.7	2434.7	2433.2	2455.8	2432.3	2477.3	2458.2	2479.3
5°	2093.4	2066.0	2028.3	1933.3	1875.5	1836.3	1817.7	1762.9	1802.5	1773.6	1797.6
7.5°	1539.6	1545.9	1521.0	1465.1	1339.3	1276.1	1238.9	1205.6	1234.5	1231.6	1277.6
10°	1082.2	1099.3	1081.7	1025.4	923.5	888.8	895.6	908.9	946.6	966.1	1037.2
12.5°	779.1	778.1	766.8	716.4	649.3	653.2	681.2	704.2	738.9	759.5	832.0
15°	581.7	572.9	568.0	526.9	488.7	497.0	510.7	513.2	535.2	547.5	606.2
17.5°	439.7	444.1	449.5	420.1	391.3	385.9	375.1	361.9	368.2	370.7	400.1
20°	349.1	366.8	380.0	359.4	330.0	314.4	300.7	291.9	291.9	291.4	299.7
22.5°	305.1	317.8	332.0	317.8	291.4	277.7	269.8	263.0	262.0	262.0	269.8
25°	281.1	290.4	304.1	294.3	274.7	264.4	257.1	248.3	244.8	243.9	249.2
27.5°	269.3	273.2	280.1	271.3	254.6	249.7	247.8	239.9	235.5	233.1	238.5
30°	249.2	248.3	248.8	239.9	226.7	226.2	229.7	231.1	229.7	229.2	237.5
32.5°	230.6	228.7	228.2	220.4	208.1	205.2	208.1	211.1	214.5	219.4	229.2
35°	207.1	212.0	215.0	208.1	193.4	184.6	181.2	175.8	172.9	172.9	184.1
37.5°	188.5	199.8	204.2	197.8	181.7	169.4	163.6	162.6	163.1	165.0	175.8
40°	182.2	190.5	194.4	188.0	171.9	160.6	157.2	156.2	157.2	160.1	170.9
42.5°	178.2	184.1	183.6	175.8	162.6	154.7	152.8	151.8	152.8	155.7	167.5
45°	174.8	178.7	174.8	165.5	153.3	149.4	149.8	149.4	150.3	153.3	164.5
47.5°	171.9	173.3	168.5	159.1	146.4	145.4	147.4	148.9	149.8	152.3	164.0
50°	167.5	167.5	163.1	153.3	140.5	141.0	143.5	146.9	147.4	150.3	159.6
52.5°	162.1	161.6	158.7	149.4	135.6	137.1	137.1	141.0	142.0	145.4	155.2
55°	157.7	156.7	155.2	146.4	131.2	133.7	132.2	133.7	136.1	139.6	150.3
57.5°	153.8	151.8	151.8	144.0	127.8	128.8	125.4	127.3	130.3	133.2	144.5
60°	149.8	147.9	148.9	140.5	122.4	121.4	120.0	123.9	124.9	128.3	139.6
62.5°	145.4	144.0	144.5	136.6	118.5	116.1	116.1	119.5	120.0	124.9	135.6
65°	142.0	140.0	139.6	132.7	114.1	111.2	112.6	114.1	115.1	120.0	130.3
67.5°	138.6	134.7	134.7	129.3	109.2	106.3	109.2	108.7	110.2	114.6	122.9
70°	134.2	128.8	129.3	126.8	104.3	100.9	103.3	102.8	103.8	106.8	115.1
72.5°	127.3	122.9	123.9	122.9	99.4	94.5	95.5	95.5	95.5	97.9	106.8
75°	118.5	115.1	118.0	120.5	93.5	86.7	87.7	87.7	86.2	87.7	98.4
77.5°	107.7	105.8	115.6	112.1	86.7	78.3	78.3	77.4	74.4	76.4	88.1
80°	96.0	94.5	106.8	94.0	78.8	68.1	67.1	64.6	61.7	63.2	74.9
82.5°	83.7	82.3	89.6	72.0	68.1	56.3	53.9	49.5	46.5	48.0	58.8
85°	68.6	68.6	69.0	54.4	51.9	43.1	40.2	34.3	30.9	31.8	42.1
87.5°	49.0	50.4	46.5	37.2	30.9	24.0	22.0	18.6	15.7	18.1	22.0
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°	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6	3009.6
2.5°	2587.0	2640.9	2702.1	2780.4	2847.5	2957.7	3063.5	3127.1
5°	1934.3	2023.9	2135.5	2279.0	2412.7	2613.4	2812.7	2940.6
7.5°	1384.3	1480.3	1600.8	1780.0	1969.0	2225.1	2488.6	2641.4
10°	1145.4	1243.8	1345.2	1466.1	1620.9	1899.5	2210.9	2383.3
12.5°	947.5	1052.8	1162.0	1289.3	1432.8	1681.6	2040.5	2238.8
15°	725.2	842.7	971.5	1132.6	1312.4	1599.8	1998.4	2213.9
17.5°	497.0	628.3	786.4	985.2	1205.1	1573.4	2073.8	2322.1
20°	342.3	437.8	606.7	839.8	1104.2	1569.9	2218.8	2529.7
22.5°	286.5	329.1	452.5	706.1	1028.3	1612.0	2443.5	2821.1
25°	264.9	290.4	361.4	590.1	973.0	1709.0	2753.0	3198.1
27.5°	252.2	275.2	328.1	514.2	929.4	1821.6	3054.2	3563.4
30°	257.1	280.6	318.8	475.5	870.2	1915.6	3321.5	3848.4
32.5°	231.6	241.9	273.2	441.2	827.6	1994.5	3555.6	4084.5
35°	197.3	215.5	243.9	425.0	828.5	2047.4	3810.7	4386.1
37.5°	188.0	206.2	226.7	419.2	839.8	2103.7	4103.6	4739.7
40°	182.2	198.8	216.4	415.7	850.6	2155.1	4390.5	5089.3
42.5°	178.2	193.4	215.5	404.0	856.0	2201.1	4626.5	5386.5
45°	177.8	193.4	219.4	392.2	864.3	2250.6	4824.4	5606.4
47.5°	178.2	199.8	212.0	378.0	864.3	2333.3	5056.5	5802.8
50°	176.3	210.6	204.2	358.0	844.2	2490.0	5374.8	6065.7
52.5°	175.3	209.1	189.0	327.1	809.4	2738.8	5782.7	6428.1
55°	172.9	201.8	178.2	281.1	768.8	3010.1	6219.5	6856.6
57.5°	170.4	178.7	172.4	240.9	706.1	3201.1	6520.2	7191.0
60°	191.0	156.2	167.5	221.3	622.4	3253.5	6508.4	7324.2
62.5°	176.8	146.4	161.1	216.9	563.6	3106.6	6207.7	7252.2
65°	138.6	140.0	154.7	229.7	548.0	2717.3	5675.0	6919.7
67.5°	126.8	133.7	148.4	245.8	549.4	2175.7	4878.7	6195.5
70°	119.5	126.8	141.0	254.1	553.3	1621.8	3857.2	5046.2
72.5°	111.2	117.5	132.7	255.6	527.9	1178.2	2972.9	3710.3
75°	101.4	107.2	121.0	222.8	437.3	817.3	2274.1	2538.5
77.5°	90.1	94.5	106.3	171.9	324.7	523.0	1707.0	1854.4
80°	76.9	79.3	89.1	125.8	222.3	327.1	1350.6	1488.2
82.5°	61.7	62.7	69.0	94.5	144.5	210.1	904.4	1032.3
85°	43.6	43.6	47.5	68.6	98.4	133.2	491.2	544.5
87.5°	20.6	21.1	21.1	37.7	51.4	67.6	113.1	69.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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