

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: P193051

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193051
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: GLEON-AF-03-LED-E1-SLR-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 10176.4 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 96
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



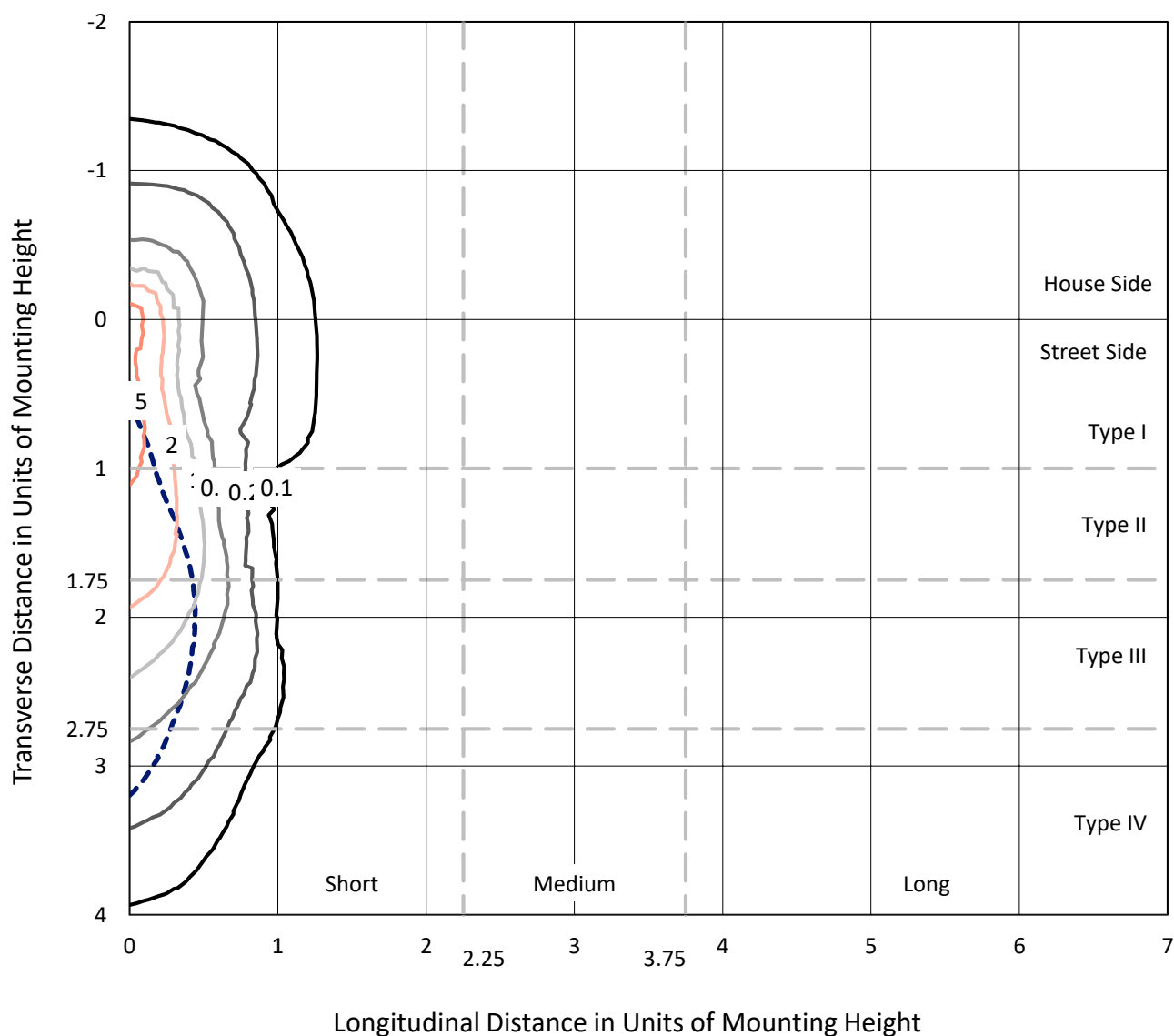
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

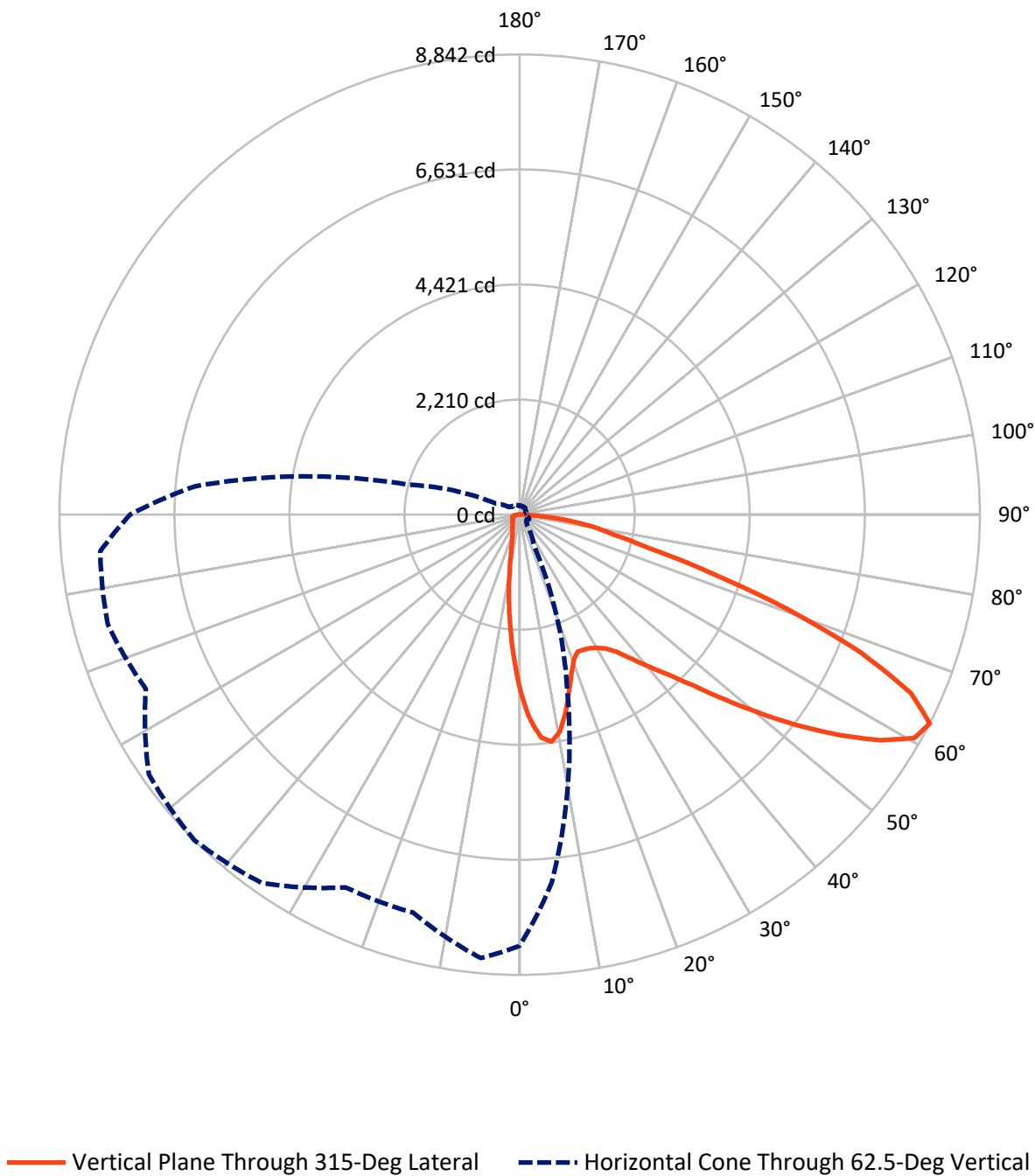


Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.1	0.0	1684.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8492.3	0.0	8492.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	10176.4	0.0	10176.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	2.5
10°-20°	458.9	4.5
20°-30°	669.1	6.6
30°-40°	1030.6	10.1
40°-50°	1516.7	14.9
50°-60°	2224.7	21.9
60°-70°	2486.9	24.4
70°-80°	1217.6	12.0
80°-90°	321.5	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°	10176.4	100.0
0°-180°	10176.4	100.0

Coefficient of Utilization



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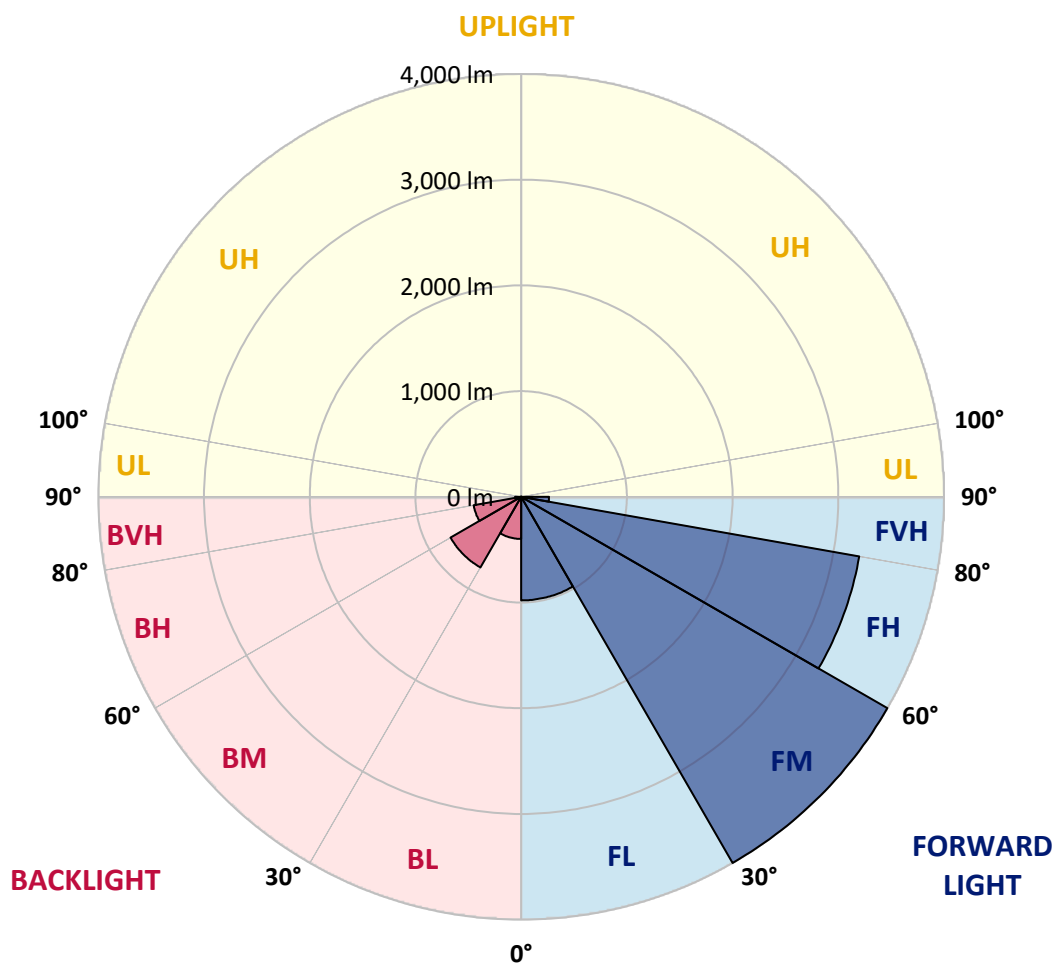
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	980.0	9.6			
FM	(30°-60°)	4000.4	39.3			
FH	(60°-80°)	3248.0	31.9			G2/5000
FVH	(80°-90°)	264.0	2.6			G3/500
BL	(0°-30°)	398.4	3.9	B1/500		
BM	(30°-60°)	771.6	7.6	B1/1000		
BH	(60°-80°)	456.5	4.5	B1/500		G1/500
BVH	(80°-90°)	57.5	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°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	3572.4	3499.7	3378.9	3252.9	3176.3	3086.8	3016.8	2955.4	2832.3	2808.3	2830.1
5°	3359.2	3213.2	2985.6	2756.2	2603.5	2439.5	2312.0	2209.7	2053.6	2026.2	2059.2
7.5°	3017.4	2842.9	2541.9	2249.4	2033.5	1828.7	1691.2	1581.4	1459.4	1406.9	1410.3
10°	2722.6	2525.7	2170.0	1851.6	1674.8	1536.7	1420.9	1308.5	1184.8	1103.7	1081.3
12.5°	2557.6	2331.0	1921.0	1636.8	1473.0	1327.5	1202.7	1082.4	950.4	867.6	844.1
15°	2529.2	2283.0	1827.6	1499.2	1293.9	1109.8	962.8	828.5	692.6	625.4	611.5
17.5°	2652.7	2369.1	1797.5	1376.6	1125.6	898.4	717.8	567.8	457.0	423.5	420.6
20°	2889.9	2534.7	1793.5	1261.5	959.4	693.1	500.1	391.0	342.3	332.8	333.5
22.5°	3222.7	2791.5	1841.6	1174.7	806.7	516.9	376.0	327.2	308.2	299.3	299.3
25°	3653.5	3145.0	1952.4	1111.6	674.1	412.9	331.7	302.6	284.7	278.6	279.7
27.5°	4070.8	3489.0	2081.1	1061.8	587.4	374.8	314.3	288.1	272.4	266.3	269.1
30°	4396.4	3794.5	2188.5	994.0	543.2	364.2	320.5	293.7	271.3	261.7	262.3
32.5°	4666.0	4061.9	2278.5	945.4	504.0	312.2	276.3	264.6	261.7	250.6	245.1
35°	5010.6	4353.3	2338.9	946.5	485.5	278.6	246.2	225.4	210.4	197.4	197.4
37.5°	5414.6	4687.9	2403.2	959.4	478.9	259.1	235.6	214.8	200.8	188.5	186.3
40°	5813.9	5015.6	2461.9	971.7	474.9	247.3	227.2	208.1	195.2	182.9	179.6
42.5°	6153.5	5285.3	2514.6	977.9	461.5	246.2	220.9	203.7	191.3	177.9	174.5
45°	6404.7	5511.4	2571.1	987.3	448.1	250.6	220.9	203.1	187.9	175.2	171.7
47.5°	6629.0	5776.4	2665.6	987.3	431.9	242.2	228.3	203.7	187.4	173.9	171.2
50°	6929.4	6140.1	2844.6	964.4	408.9	233.3	240.6	201.4	182.4	171.7	168.4
52.5°	7343.5	6606.1	3128.7	924.7	373.6	215.9	238.8	200.3	177.3	166.2	162.2
55°	7832.9	7105.1	3438.7	878.2	321.1	203.7	230.4	197.4	171.7	159.4	155.4
57.5°	8214.9	7448.5	3656.9	806.7	275.3	196.8	204.2	194.7	165.0	152.2	148.8
60°	8367.1	7435.1	3716.7	711.1	252.8	191.3	178.4	218.2	159.4	146.5	142.7
62.5°	8284.9	7091.7	3548.8	643.9	247.8	184.0	167.2	201.9	154.9	142.7	137.0
65°	7905.0	6483.0	3104.2	625.9	262.3	176.8	159.9	158.3	148.8	137.0	131.4
67.5°	7077.7	5573.5	2485.4	627.7	280.8	169.5	152.8	144.9	140.4	130.9	125.8
70°	5764.7	4406.4	1852.8	632.2	290.3	161.1	144.9	136.5	131.4	122.0	118.5
72.5°	4238.6	3396.3	1346.0	603.0	292.0	151.7	134.3	127.0	122.0	111.9	109.0
75°	2900.0	2597.8	933.6	499.6	254.6	138.2	122.5	115.9	112.4	100.1	98.5
77.5°	2118.5	1950.1	597.4	370.9	196.3	121.4	107.9	102.9	100.7	87.3	85.0
80°	1700.1	1542.8	373.6	253.9	143.7	101.8	90.5	87.9	85.5	72.1	70.5
82.5°	1179.2	1033.3	240.0	165.0	107.9	78.8	71.6	70.5	67.0	54.8	53.1
85°	622.0	561.0	152.2	112.4	78.3	54.3	49.8	49.8	48.1	36.4	35.3
87.5°	79.4	129.3	77.2	58.8	43.0	24.0	24.0	23.5	25.1	20.6	17.9
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°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	2778.6	2805.4	2779.7	2781.4	2809.9	2895.0	2933.5	2965.4	2999.6	3021.9	3032.1
5°	2013.8	2076.6	2097.8	2142.6	2208.5	2317.1	2360.1	2391.4	2412.2	2424.5	2429.5
7.5°	1377.3	1415.4	1457.8	1529.9	1673.8	1737.5	1766.0	1758.7	1735.2	1727.0	1718.5
10°	1038.3	1023.2	1015.3	1055.0	1171.4	1235.7	1255.8	1236.3	1223.4	1226.2	1240.2
12.5°	804.4	778.2	746.2	741.8	818.5	876.0	889.0	890.0	913.5	934.1	965.0
15°	586.2	583.5	567.8	558.4	601.9	648.9	654.5	664.7	685.8	700.9	727.7
17.5°	413.4	428.6	440.9	447.0	479.9	513.5	507.4	502.4	498.4	498.4	511.4
20°	333.5	343.5	359.1	377.1	410.6	434.1	419.0	398.9	384.3	379.9	381.6
22.5°	300.4	308.2	317.2	332.8	363.1	379.2	363.1	348.5	334.0	329.0	327.2
25°	283.6	293.7	302.1	313.8	336.2	347.5	331.7	321.1	312.2	306.0	301.5
27.5°	274.1	283.1	285.2	290.8	309.9	320.0	312.2	307.7	302.1	296.5	290.8
30°	264.1	262.3	258.4	259.1	274.1	284.2	283.6	284.7	284.2	282.6	281.4
32.5°	241.1	237.7	234.4	237.7	251.8	260.7	261.2	263.6	263.6	262.9	267.3
35°	200.8	206.9	210.9	220.9	237.7	245.7	242.2	236.6	226.6	220.3	219.8
37.5°	185.7	186.9	193.6	207.6	225.9	233.3	228.3	215.3	208.6	207.6	209.2
40°	178.4	179.6	183.4	196.3	214.8	222.2	217.7	208.1	201.9	201.4	204.2
42.5°	173.4	174.5	176.8	185.7	200.8	209.8	210.4	203.7	196.3	196.8	199.7
45°	170.7	171.2	170.7	175.2	189.1	199.7	204.2	199.7	193.6	194.7	198.0
47.5°	170.0	168.4	166.2	167.2	181.8	192.4	198.0	196.3	193.6	194.7	197.4
50°	167.8	163.9	161.1	160.5	175.2	186.3	191.3	191.3	192.4	194.7	197.4
52.5°	161.1	156.7	156.7	154.9	170.7	181.3	184.6	185.2	186.9	190.7	194.7
55°	152.8	151.0	152.8	149.9	167.2	177.3	178.9	180.2	181.3	184.6	190.2
57.5°	145.5	143.2	147.2	146.0	164.4	173.4	173.4	175.7	175.7	180.2	184.6
60°	141.5	137.0	138.8	139.9	160.5	170.0	169.0	171.2	172.3	176.2	179.6
62.5°	136.5	132.5	132.5	135.4	156.0	165.0	164.4	166.2	170.7	171.7	175.2
65°	130.3	128.7	127.0	130.3	151.7	159.4	159.9	162.2	166.2	167.2	170.0
67.5°	124.2	124.8	121.4	124.8	147.7	153.8	153.8	158.3	159.9	162.2	165.0
70°	117.5	118.0	115.3	119.2	144.9	147.7	147.2	153.3	154.4	156.0	158.9
72.5°	109.0	109.0	107.9	113.5	140.4	141.5	140.4	145.5	146.0	147.7	148.8
75°	100.1	100.1	99.0	106.8	137.6	134.8	131.4	135.4	136.5	137.6	137.6
77.5°	88.4	89.5	89.5	99.0	128.1	131.9	120.8	123.0	124.8	125.3	123.7
80°	73.9	76.6	77.8	90.0	107.4	122.0	107.9	109.7	110.3	110.3	107.9
82.5°	56.5	61.5	64.4	77.8	82.3	102.3	94.0	95.7	94.0	90.5	89.5
85°	39.2	45.9	49.2	59.3	62.1	78.8	78.3	78.3	75.0	70.5	69.9
87.5°	21.3	25.1	27.5	35.3	42.5	53.1	57.6	55.9	53.1	50.4	51.0
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°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	3084.6	3160.7	3282.0	3374.9	3468.3	3558.5	3655.7	3730.1	3793.4	3817.9	3892.9
5°	2480.4	2575.6	2690.2	2897.2	3043.8	3205.4	3392.3	3639.5	3734.6	3866.1	4081.5
7.5°	1753.7	1839.9	2024.5	2191.7	2399.4	2628.1	2880.4	3221.6	3346.4	3557.3	3908.1
10°	1309.6	1409.7	1557.9	1699.0	1881.9	2115.7	2405.5	2786.9	2938.6	3167.4	3571.2
12.5°	1055.0	1173.1	1330.2	1462.9	1604.4	1769.5	2050.8	2469.3	2672.3	2872.5	3280.9
15°	810.6	934.1	1080.2	1248.7	1404.6	1582.6	1877.4	2335.0	2568.8	2777.5	3126.0
17.5°	561.0	666.8	850.9	1026.5	1226.2	1453.9	1829.3	2363.5	2642.7	2883.3	3152.7
20°	397.7	458.2	609.2	812.8	1061.8	1347.6	1820.4	2513.4	2876.5	3151.1	3325.1
22.5°	334.6	356.9	444.6	631.6	919.1	1268.2	1851.6	2723.8	3192.0	3542.7	3599.8
25°	304.9	318.3	364.2	495.6	792.1	1210.6	1957.4	3037.1	3582.5	3934.3	3924.3
27.5°	288.7	302.6	332.8	418.5	696.4	1174.7	2063.2	3408.5	4028.8	4359.5	4234.3
30°	283.6	302.6	334.6	394.4	628.2	1118.3	2149.7	3734.6	4372.3	4646.5	4375.2
32.5°	279.7	282.6	297.0	340.2	563.3	1052.2	2208.5	4027.2	4708.5	4919.5	4578.2
35°	225.9	240.0	263.6	304.9	525.3	1012.5	2208.5	4279.4	5039.7	5195.3	4771.8
37.5°	217.7	229.9	250.6	285.8	504.0	992.9	2164.3	4522.8	5378.2	5508.0	4931.2
40°	213.2	223.2	242.8	271.3	495.1	970.6	2100.1	4737.7	5708.8	5821.3	5080.0
42.5°	209.8	218.7	237.2	262.3	483.4	945.9	2047.9	4910.0	5995.7	6088.6	5222.0
45°	208.1	217.7	237.7	266.8	459.9	913.5	2030.7	5096.2	6231.8	6311.8	5375.9
47.5°	208.1	219.3	240.6	276.3	431.9	880.0	2084.8	5341.8	6455.0	6494.2	5557.2
50°	206.4	218.7	248.3	266.8	391.0	837.5	2212.5	5651.2	6696.7	6701.2	5786.6
52.5°	203.1	217.7	267.3	261.2	344.0	781.5	2384.8	6048.4	7054.3	7081.0	6145.8
55°	199.2	215.9	262.3	248.3	305.5	714.9	2525.7	6531.1	7556.5	7630.8	6673.8
57.5°	194.2	213.7	253.9	230.4	280.2	629.4	2576.7	6884.7	7907.3	8094.2	7269.0
60°	189.7	212.0	229.3	219.8	264.6	557.2	2478.2	6814.7	7883.2	8286.0	7796.5
62.5°	185.2	213.7	209.2	213.2	257.3	510.8	2220.9	6254.8	7484.4	8087.9	8187.6
65°	180.2	198.7	197.4	207.6	255.6	492.3	1841.0	5415.1	6713.4	7462.0	8279.8
67.5°	173.4	183.4	189.1	200.3	261.2	476.1	1485.8	4466.8	5642.2	6523.9	7798.7
70°	166.2	174.5	180.8	191.3	257.9	468.8	1235.7	3522.6	4477.0	5346.8	6849.5
72.5°	156.7	163.9	169.5	179.6	254.6	464.9	1043.9	2836.8	3342.5	3971.8	5569.0
75°	145.5	152.2	156.0	166.2	243.8	425.7	820.6	2400.4	2501.2	2762.9	4435.6
77.5°	132.5	137.6	141.0	152.2	215.9	354.1	593.5	1851.6	1942.3	2006.0	3400.7
80°	117.5	122.5	124.2	134.8	178.9	276.9	387.1	1367.7	1452.8	1467.4	2220.9
82.5°	100.1	105.2	105.2	115.3	146.5	199.2	253.9	937.0	953.9	1003.0	1569.7
85°	80.6	84.4	84.4	89.5	113.5	148.8	174.5	470.5	465.5	531.4	1360.0
87.5°	57.6	60.4	63.3	64.4	81.1	98.5	105.2	143.2	94.5	108.5	873.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	3949.4	3981.3	3948.8	3925.3	3824.2	3740.8	3629.5	3572.4
5°	4245.4	4326.4	4299.1	4200.6	3989.2	3751.4	3481.2	3359.2
7.5°	4209.5	4398.1	4402.6	4218.5	3906.9	3556.7	3190.9	3017.4
10°	3930.9	4172.1	4240.9	4062.5	3731.9	3340.3	2920.7	2722.6
12.5°	3620.0	3856.0	3908.6	3847.0	3570.7	3177.5	2751.7	2557.6
15°	3365.4	3471.1	3533.8	3587.5	3432.6	3112.6	2742.2	2529.2
17.5°	3210.5	3198.7	3216.6	3310.0	3336.3	3187.0	2887.7	2652.7
20°	3154.6	2974.9	2970.4	3099.1	3291.0	3364.3	3171.9	2889.9
22.5°	3185.2	2894.4	2857.4	3010.2	3315.0	3620.0	3544.5	3222.7
25°	3291.6	2901.1	2871.5	3019.2	3402.4	3892.4	3946.7	3653.5
27.5°	3458.8	2943.7	2904.4	3056.1	3518.1	4121.2	4342.7	4070.8
30°	3617.7	3017.4	2968.8	3128.7	3623.9	4211.8	4585.5	4396.4
32.5°	3810.8	3155.6	3070.0	3262.5	3754.8	4356.1	4802.0	4666.0
35°	3999.8	3352.5	3246.3	3468.9	3900.8	4535.7	5049.2	5010.6
37.5°	4207.3	3609.9	3522.1	3735.8	4100.5	4705.2	5364.7	5414.6
40°	4428.9	3951.2	3847.0	4125.1	4410.4	4917.8	5694.3	5813.9
42.5°	4652.0	4329.8	4205.6	4487.6	4751.0	5127.5	5976.2	6153.5
45°	4907.7	4741.0	4682.3	4987.1	5078.4	5327.3	6184.3	6404.7
47.5°	5205.3	5207.6	5302.2	5424.0	5408.4	5553.3	6393.6	6629.0
50°	5552.7	5789.8	5998.6	6079.6	5748.4	5796.1	6683.8	6929.4
52.5°	5970.0	6486.4	6744.8	6691.7	6114.9	6092.6	7143.7	7343.5
55°	6491.9	7223.6	7480.4	7442.4	6536.1	6496.4	7716.6	7832.9
57.5°	7096.2	7938.0	8174.1	8002.9	7041.9	6939.5	8190.3	8214.9
60°	7627.0	8504.2	8711.1	8521.4	7552.0	7411.0	8486.2	8367.1
62.5°	7922.4	8696.1	8841.5	8637.3	7901.6	7913.4	8551.1	8284.9
65°	7790.4	8211.1	8258.1	8241.2	7811.6	8204.9	8317.9	7905.0
67.5°	7067.6	6984.8	7063.7	7172.8	7039.6	7821.1	7671.7	7077.7
70°	5794.3	5339.6	5496.8	5570.0	5630.4	6730.3	6658.7	5764.7
72.5°	4366.8	3740.8	3864.9	3849.9	4129.6	5398.3	5178.5	4238.6
75°	3094.1	2536.4	2552.1	2545.8	2881.5	4223.5	3749.8	2900.0
77.5°	2165.0	1837.6	1846.1	1880.8	1937.2	3185.2	2679.0	2118.5
80°	1488.5	1394.5	1441.0	1443.9	1342.6	2139.8	1979.2	1700.1
82.5°	1108.8	969.4	958.3	974.5	1052.2	1733.6	1521.0	1179.2
85°	908.0	573.9	461.5	578.4	932.5	1716.8	1010.3	622.0
87.5°	511.4	272.4	123.0	228.3	372.0	1136.8	292.0	79.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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