

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: P299486

Luminaire Tested: **GLNA-AF-06-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SLR-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19871.1 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

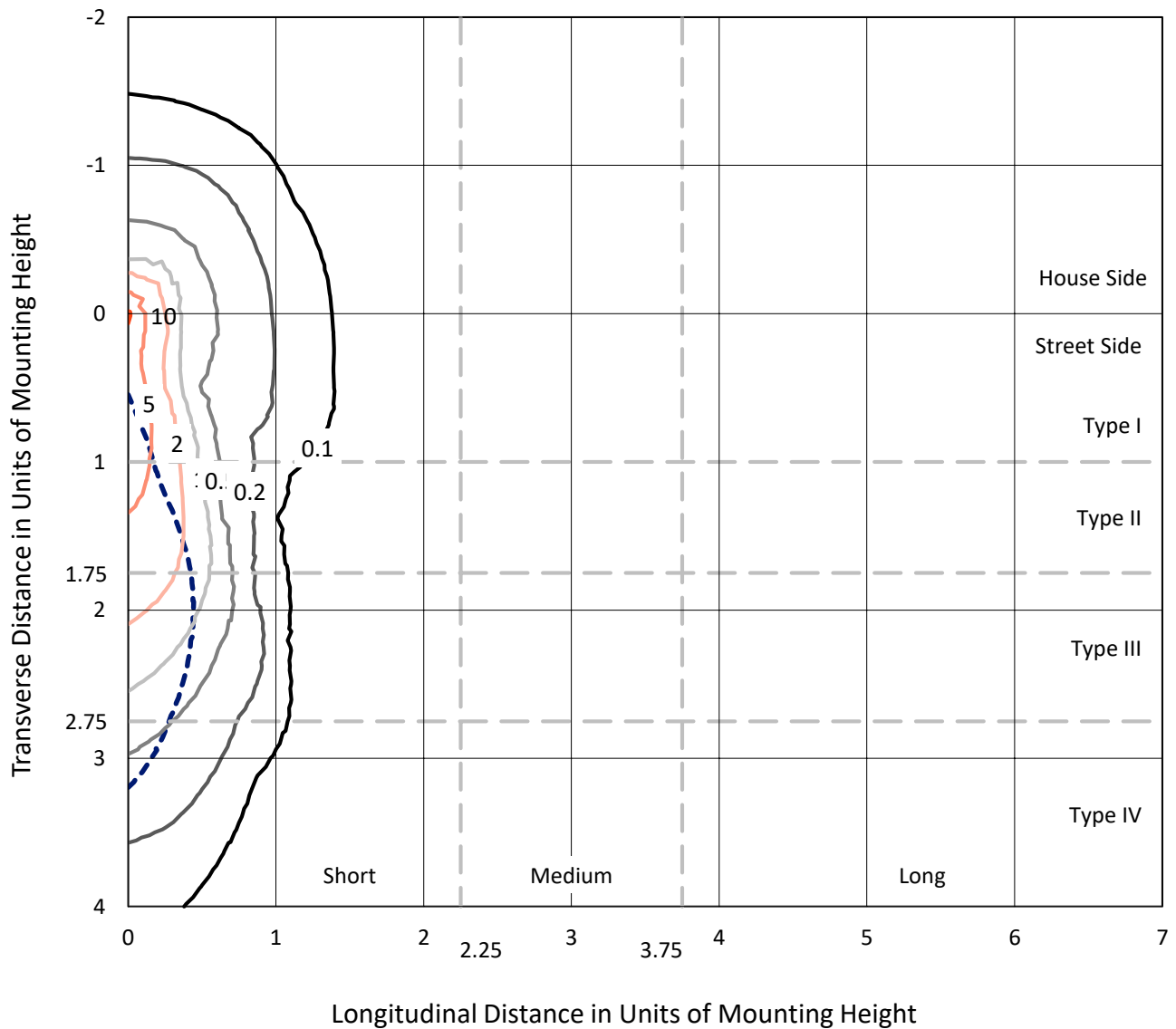
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

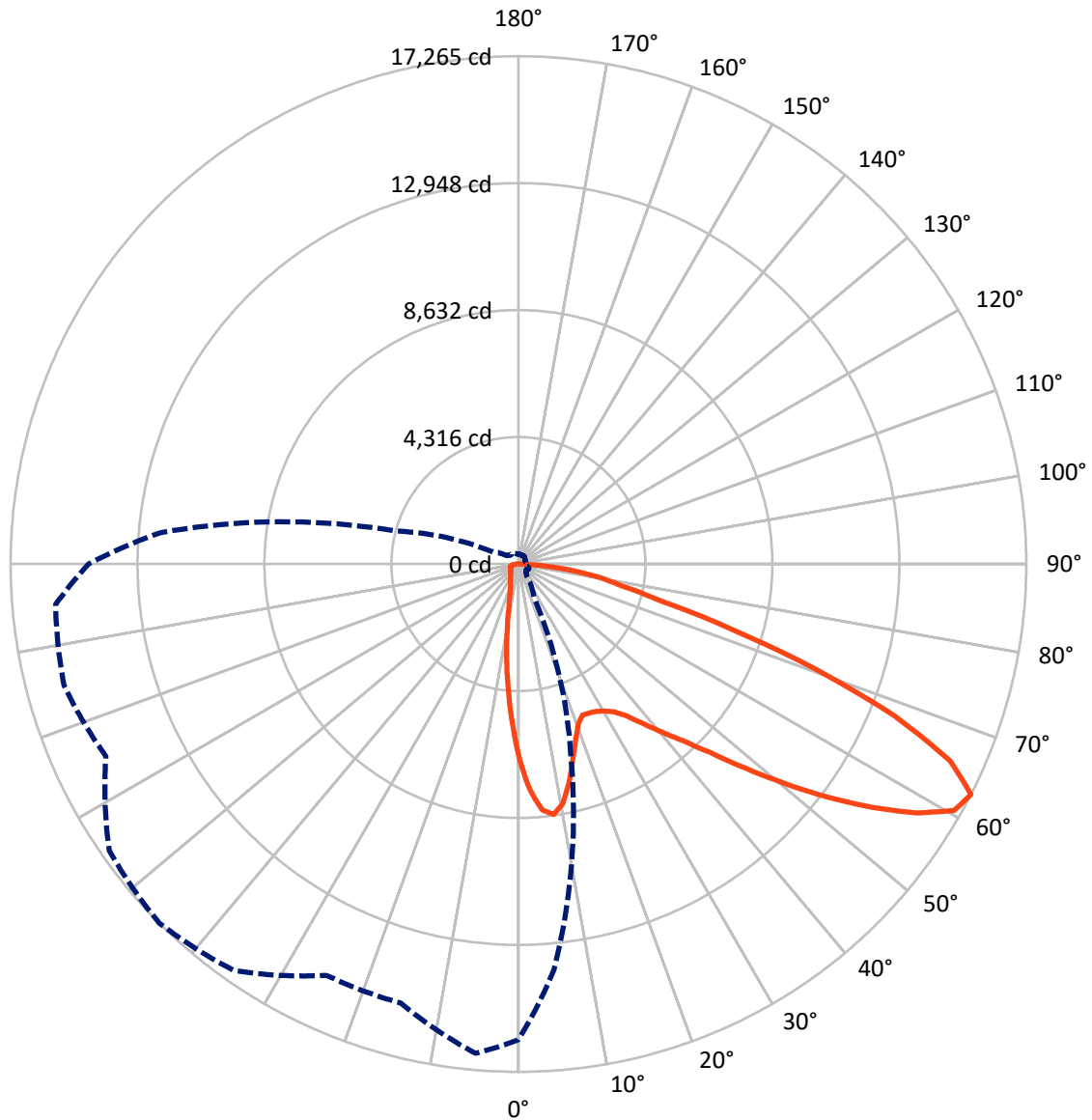
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	3288.4	0.0	3288.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16582.7	0.0	16582.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	19871.1	0.0	19871.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.7	2.5
10°-20°	896.2	4.5
20°-30°	1306.6	6.6
30°-40°	2012.4	10.1
40°-50°	2961.7	14.9
50°-60°	4344.2	21.9
60°-70°	4856.1	24.4
70°-80°	2377.5	12.0
80°-90°	627.7	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°	19871.1	100.0
0°-180°	19871.1	100.0



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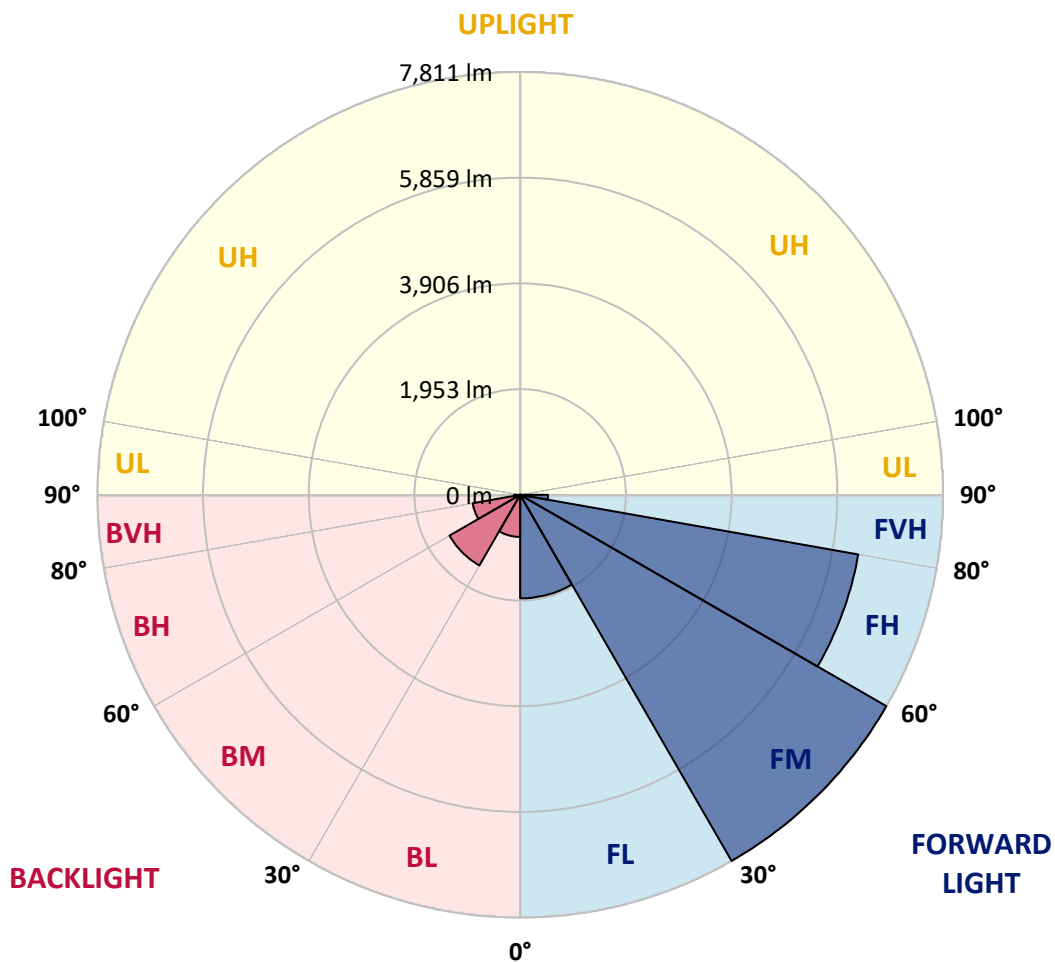
CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1913.5	9.6			
FM	(30°-60°)	7811.5	39.3			
FH	(60°-80°)	6342.2	31.9			G3/7500
FVH	(80°-90°)	515.5	2.6			G4/750
BL	(0°-30°)	778.0	3.9	B2/1000		
BM	(30°-60°)	1506.7	7.6	B2/2500		
BH	(60°-80°)	891.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	112.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6
2.5°	6975.5	6833.7	6597.6	6351.9	6202.4	6027.5	5890.9	5770.8	5530.4	5483.5	5526.1
5°	6559.5	6274.5	5829.7	5381.9	5083.7	4763.6	4514.6	4314.8	4009.9	3956.4	4020.8
7.5°	5892.2	5551.3	4963.6	4392.2	3970.6	3570.8	3302.3	3088.0	2849.9	2747.4	2753.6
10°	5316.5	4931.9	4237.1	3615.7	3270.5	3000.7	2774.5	2554.9	2313.5	2155.1	2111.4
12.5°	4994.1	4551.9	3751.0	3196.1	2876.0	2592.3	2348.5	2113.8	1855.8	1694.1	1648.5
15°	4938.5	4457.7	3568.8	2927.6	2526.5	2167.3	1880.0	1617.7	1352.2	1221.2	1193.8
17.5°	5179.9	4626.0	3509.6	2688.2	2197.8	1754.3	1401.5	1108.8	892.5	827.1	821.4
20°	5642.9	4949.4	3502.0	2463.3	1873.3	1353.5	976.5	763.6	668.7	649.8	651.1
22.5°	6293.0	5450.7	3595.9	2294.0	1575.1	1009.3	734.1	638.9	601.9	584.3	584.3
25°	7133.9	6141.2	3812.2	2170.6	1316.1	806.2	647.8	590.9	555.9	544.0	546.3
27.5°	7949.1	6812.8	4063.5	2073.4	1146.8	731.8	613.8	562.5	532.1	519.8	525.5
30°	8584.7	7409.4	4273.2	1941.1	1060.5	711.0	626.0	573.4	529.8	511.2	512.2
32.5°	9111.1	7931.6	4449.1	1845.9	984.1	609.5	539.7	516.5	511.2	489.4	478.5
35°	9784.1	8500.7	4567.1	1848.2	948.1	544.0	480.5	440.1	410.7	385.6	385.6
37.5°	10572.8	9153.8	4692.8	1873.3	935.2	505.6	460.0	419.3	392.2	368.1	363.8
40°	11352.5	9794.0	4807.5	1897.5	927.2	482.8	443.5	406.4	381.3	357.1	350.5
42.5°	12015.9	10320.4	4910.1	1909.4	901.1	480.5	431.5	397.5	373.7	347.2	340.9
45°	12506.3	10761.6	5020.5	1927.9	875.0	489.4	431.5	396.5	367.1	341.9	335.3
47.5°	12944.1	11279.4	5205.0	1927.9	843.3	472.9	445.8	397.5	366.1	339.6	334.3
50°	13530.8	11989.4	5554.6	1883.3	798.6	455.4	469.6	393.2	356.2	335.3	328.7
52.5°	14339.0	12899.5	6109.5	1805.6	729.8	421.6	466.3	391.2	346.2	324.4	316.8
55°	15295.0	13873.7	6714.6	1714.9	627.0	397.5	450.1	385.6	335.3	311.2	303.6
57.5°	16041.0	14544.3	7140.5	1575.1	537.4	384.6	398.8	380.3	322.1	297.0	290.7
60°	16338.0	14518.2	7257.6	1388.2	493.7	373.7	348.5	425.9	311.2	286.0	278.4
62.5°	16177.6	13847.6	6929.9	1257.3	483.8	359.5	326.7	394.2	302.6	278.4	267.5
65°	15435.9	12659.1	6061.5	1222.2	512.2	345.2	312.5	309.2	290.7	267.5	256.6
67.5°	13820.1	10882.9	4853.2	1225.5	548.3	331.0	298.3	283.1	274.1	255.6	245.7
70°	11256.6	8604.5	3617.7	1234.5	566.8	314.5	283.1	266.5	256.6	238.1	231.5
72.5°	8276.8	6631.6	2628.3	1177.6	570.1	296.0	262.2	248.0	238.1	218.6	213.0
75°	5662.7	5072.8	1823.1	975.5	497.0	269.8	239.1	226.2	219.6	195.4	192.1
77.5°	4136.6	3807.9	1166.7	724.2	383.3	237.1	211.0	201.1	196.8	170.3	166.0
80°	3319.8	3012.6	729.8	496.0	280.8	198.7	176.9	171.6	167.0	140.9	137.6
82.5°	2302.6	2017.5	468.6	322.1	211.0	154.1	139.9	137.6	131.0	107.1	103.8
85°	1214.6	1095.6	297.0	219.6	152.8	105.8	97.2	97.2	93.9	71.1	68.8
87.5°	155.1	252.3	150.8	114.7	84.0	47.0	47.0	46.0	49.3	40.3	35.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6
2.5°	5425.6	5478.2	5427.9	5431.2	5486.8	5652.8	5728.2	5790.3	5857.1	5900.8	5920.3
5°	3932.5	4054.9	4096.2	4183.5	4312.5	4524.5	4608.5	4669.6	4710.3	4734.1	4744.1
7.5°	2689.5	2763.6	2846.6	2987.4	3268.2	3392.9	3448.4	3434.2	3388.6	3372.0	3355.8
10°	2027.4	1998.0	1982.5	2060.2	2287.4	2413.0	2452.4	2414.0	2388.9	2394.5	2421.6
12.5°	1570.8	1519.5	1457.3	1448.4	1598.2	1710.6	1735.8	1737.8	1783.7	1824.1	1884.3
15°	1144.8	1139.2	1108.8	1090.3	1175.3	1267.2	1278.1	1297.6	1339.3	1368.7	1421.0
17.5°	807.2	836.6	860.8	872.7	937.2	1002.6	990.7	980.8	973.2	973.2	998.3
20°	651.1	670.6	701.4	736.1	801.9	847.6	818.1	778.8	750.3	741.7	745.0
22.5°	586.6	601.9	619.4	649.8	709.0	740.7	709.0	680.6	652.1	642.2	638.9
25°	553.9	573.4	589.9	612.8	656.4	678.2	647.8	627.0	609.5	597.6	588.6
27.5°	535.4	552.6	557.2	568.1	605.2	624.7	609.5	600.9	589.9	579.0	568.1
30°	515.5	512.2	504.6	505.6	535.4	554.9	553.9	555.9	554.9	551.6	549.6
32.5°	470.9	464.3	457.7	464.3	491.4	508.9	510.3	514.6	514.6	513.6	522.2
35°	392.2	404.1	411.7	431.5	464.3	479.5	472.9	462.0	442.5	430.2	429.2
37.5°	362.8	364.7	378.0	405.1	441.5	455.4	445.8	420.6	407.4	405.1	408.4
40°	348.5	350.5	358.1	383.3	419.3	433.5	424.9	406.4	394.2	393.2	398.8
42.5°	338.6	340.9	345.2	362.8	392.2	409.7	410.7	397.5	383.3	384.6	389.9
45°	333.0	334.3	333.0	341.9	369.0	389.9	398.8	389.9	378.0	380.3	386.6
47.5°	332.0	328.7	324.4	326.7	355.2	375.7	386.6	383.3	378.0	380.3	385.6
50°	327.7	320.1	314.5	313.5	341.9	363.8	373.7	373.7	375.7	380.3	385.6
52.5°	314.5	305.9	305.9	302.6	333.0	353.8	360.4	361.4	364.7	372.4	380.3
55°	298.3	295.0	298.3	292.7	326.7	346.2	349.5	351.9	353.8	360.4	371.4
57.5°	284.1	279.8	287.4	285.1	321.1	338.6	338.6	342.9	342.9	351.9	360.4
60°	276.5	267.5	270.8	273.1	313.5	332.0	330.0	334.3	336.3	344.2	350.5
62.5°	266.5	258.9	258.9	264.2	304.9	322.1	321.1	324.4	333.0	335.3	341.9
65°	254.6	251.3	248.0	254.6	296.0	311.2	312.5	316.8	324.4	326.7	332.0
67.5°	242.4	243.7	237.1	243.7	288.4	300.3	300.3	309.2	312.5	316.8	322.1
70°	229.5	230.5	224.9	232.8	283.1	288.4	287.4	299.3	301.6	304.9	310.2
72.5°	213.0	213.0	211.0	221.9	274.1	276.5	274.1	284.1	285.1	288.4	290.7
75°	195.4	195.4	193.5	208.7	268.8	263.2	256.6	264.2	266.5	268.8	268.8
77.5°	172.6	174.9	174.9	193.5	250.0	257.9	235.8	240.4	243.7	244.7	241.4
80°	144.2	149.8	151.8	175.9	209.7	238.1	211.0	214.0	215.3	215.3	211.0
82.5°	110.4	120.0	125.7	151.8	160.7	199.7	183.5	186.8	183.5	176.9	174.9
85°	76.4	89.6	96.2	115.7	121.4	154.1	152.8	152.8	146.5	137.6	136.6
87.5°	41.7	49.3	53.6	68.8	83.0	103.8	112.4	109.1	103.8	98.2	99.5
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°	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6
2.5°	6023.2	6171.6	6408.7	6590.0	6772.5	6948.4	7138.6	7283.7	7407.1	7455.4	7601.5
5°	4843.6	5029.1	5253.0	5657.1	5943.5	6258.9	6624.0	7106.8	7292.3	7549.3	7969.6
7.5°	3424.6	3592.6	3953.0	4279.8	4685.2	5131.9	5624.3	6290.7	6534.4	6946.1	7631.0
10°	2557.2	2752.6	3042.0	3317.5	3674.6	4131.3	4697.1	5442.1	5738.1	6184.9	6973.5
12.5°	2060.2	2290.7	2597.6	2856.5	3132.9	3455.0	4004.6	4821.4	5218.3	5609.1	6406.4
15°	1582.7	1824.1	2109.5	2438.2	2742.7	3090.3	3666.0	4559.5	5015.9	5423.6	6103.8
17.5°	1095.6	1301.9	1661.4	2004.3	2394.5	2839.0	3572.1	4615.1	5160.1	5630.0	6156.4
20°	776.8	894.5	1189.5	1587.3	2073.4	2631.3	3554.6	4907.7	5616.7	6153.1	6492.7
22.5°	653.1	696.8	868.4	1233.1	1794.6	2476.2	3615.7	5318.5	6232.8	6917.7	7029.1
25°	595.2	621.7	711.0	967.9	1546.6	2363.8	3822.1	5930.2	6995.4	7682.5	7662.7
27.5°	563.5	590.9	649.8	817.1	1360.1	2294.0	4028.4	6655.8	7867.1	8512.6	8267.9
30°	553.9	590.9	653.1	770.2	1226.9	2183.5	4197.8	7292.3	8537.7	9073.1	8543.3
32.5°	546.3	551.6	580.0	664.0	1099.9	2054.6	4312.5	7863.8	9194.1	9606.2	8939.8
35°	441.5	468.6	514.6	595.2	1025.8	1977.2	4312.5	8356.5	9840.9	10144.5	9317.8
37.5°	424.9	449.1	489.4	558.2	984.1	1938.8	4226.2	8831.7	10501.7	10755.3	9629.0
40°	416.3	435.8	474.2	529.8	966.6	1895.2	4100.5	9251.0	11147.2	11366.7	9919.6
42.5°	409.7	427.2	463.3	512.2	943.8	1847.2	3999.0	9587.3	11707.7	11888.9	10197.1
45°	406.4	424.9	464.3	521.2	897.8	1783.7	3965.3	9951.1	12168.7	12324.7	10497.4
47.5°	406.4	428.2	469.6	539.7	843.3	1718.3	4071.1	10430.9	12604.5	12680.9	10851.2
50°	403.1	427.2	485.1	521.2	763.6	1635.3	4320.1	11034.7	13076.4	13085.0	11299.3
52.5°	396.5	424.9	522.2	510.3	671.6	1526.1	4656.7	11810.5	13774.5	13826.7	12000.3
55°	388.9	421.6	512.2	485.1	596.6	1396.2	4931.9	12753.0	14755.3	14900.5	13031.8
57.5°	379.0	417.3	496.0	450.1	547.3	1228.8	5031.4	13443.5	15440.2	15804.9	14193.8
60°	370.4	414.0	447.8	429.2	516.5	1088.0	4839.0	13306.9	15393.2	16179.6	15223.9
62.5°	361.4	417.3	408.4	416.3	502.3	997.4	4336.6	12213.3	14614.4	15793.0	15987.4
65°	351.9	387.9	385.6	405.1	499.3	961.3	3594.9	10573.8	13109.1	14570.8	16167.7
67.5°	338.6	358.1	369.0	391.2	510.3	929.6	2901.1	8722.2	11017.2	12738.8	15228.2
70°	324.4	340.9	352.8	373.7	503.6	915.3	2413.0	6878.3	8742.1	10440.5	13374.7
72.5°	305.9	320.1	331.0	350.5	497.0	907.7	2038.4	5539.4	6526.8	7755.6	10874.3
75°	284.1	297.0	304.9	324.4	476.2	831.3	1602.5	4687.2	4883.9	5395.2	8661.1
77.5°	258.9	268.8	275.1	297.0	421.6	691.5	1159.1	3615.7	3792.7	3917.0	6640.2
80°	229.5	239.1	242.4	263.2	349.5	540.7	756.0	2670.6	2836.6	2865.1	4336.6
82.5°	195.4	205.4	205.4	224.9	286.0	388.9	496.0	1829.7	1862.4	1958.7	3065.1
85°	157.4	165.0	165.0	174.9	221.9	290.7	340.9	918.7	908.7	1037.7	2655.4
87.5°	112.4	118.1	123.3	125.7	158.4	192.1	205.4	279.8	184.5	212.0	1705.0
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°	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6	6713.6
2.5°	7712.0	7774.1	7710.7	7665.0	7467.3	7304.6	7087.0	6975.5
5°	8289.7	8448.1	8394.5	8202.4	7789.4	7325.1	6797.6	6559.5
7.5°	8219.9	8588.0	8596.6	8237.4	7629.0	6945.1	6230.8	5892.2
10°	7675.9	8146.5	8281.1	7932.5	7287.0	6522.5	5703.0	5316.5
12.5°	7068.5	7529.4	7632.3	7511.9	6972.6	6204.4	5373.4	4994.1
15°	6571.4	6778.1	6900.1	7005.3	6702.7	6077.7	5354.5	4938.5
17.5°	6268.9	6246.0	6281.1	6463.3	6514.6	6222.9	5638.6	5179.9
20°	6159.7	5809.2	5800.3	6051.6	6426.3	6569.4	6193.5	5642.9
22.5°	6219.9	5651.8	5579.7	5878.0	6473.2	7068.5	6921.0	6293.0
25°	6427.3	5665.0	5606.8	5895.5	6643.5	7600.5	7706.4	7133.9
27.5°	6754.0	5748.0	5671.3	5967.6	6869.7	8047.3	8479.8	7949.1
30°	7064.2	5892.2	5797.0	6109.5	7076.1	8224.2	8954.0	8584.7
32.5°	7441.1	6162.0	5994.7	6370.4	7331.7	8506.0	9376.7	9111.1
35°	7810.2	6546.3	6339.0	6773.5	7616.7	8856.8	9859.5	9784.1
37.5°	8215.6	7048.9	6877.3	7294.6	8006.9	9187.5	10475.5	10572.8
40°	8648.2	7715.3	7511.9	8054.9	8612.1	9602.9	11119.1	11352.5
42.5°	9084.0	8454.7	8212.3	8762.6	9277.1	10012.2	11669.3	12015.9
45°	9583.0	9257.6	9142.9	9738.1	9916.3	10402.5	12075.7	12506.3
47.5°	10164.4	10168.7	10353.2	10591.3	10560.9	10843.6	12484.5	12944.1
50°	10842.6	11305.6	11713.3	11871.4	11224.9	11317.8	13051.3	13530.8
52.5°	11657.4	12665.7	13170.3	13066.5	11940.5	11896.5	13949.1	14339.0
55°	12676.6	14105.5	14606.8	14532.4	12762.9	12685.2	15067.8	15295.0
57.5°	13856.2	15500.3	15961.3	15627.0	13750.3	13550.6	15993.1	16041.0
60°	14892.9	16605.8	17009.9	16639.6	14746.7	14471.2	16570.8	16338.0
62.5°	15469.6	16980.5	17264.6	16865.8	15429.2	15452.1	16697.4	16177.6
65°	15212.0	16033.4	16125.0	16092.3	15253.3	16021.2	16242.1	15435.9
67.5°	13800.6	13638.9	13793.0	14006.0	13746.0	15271.8	14980.2	13820.1
70°	11314.5	10426.3	10733.5	10876.3	10994.4	13141.9	13002.0	11256.6
72.5°	8526.8	7304.6	7547.0	7517.5	8063.5	10541.0	10111.8	8276.8
75°	6041.7	4952.7	4983.1	4971.2	5626.7	8247.0	7322.1	5662.7
77.5°	4227.2	3588.3	3604.8	3672.3	3782.7	6219.9	5231.2	4136.6
80°	2906.7	2723.2	2813.8	2819.4	2621.7	4178.2	3864.8	3319.8
82.5°	2165.0	1892.9	1871.0	1902.8	2054.6	3385.3	2969.9	2302.6
85°	1772.8	1120.7	901.1	1129.6	1820.8	3352.5	1972.9	1214.6
87.5°	998.3	532.1	240.4	445.8	726.5	2219.6	570.1	155.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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