

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: P299462

Luminaire Tested: **GLNA-AF-02-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299462
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-02-LED-E1-SLR-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 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: 6797.3 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

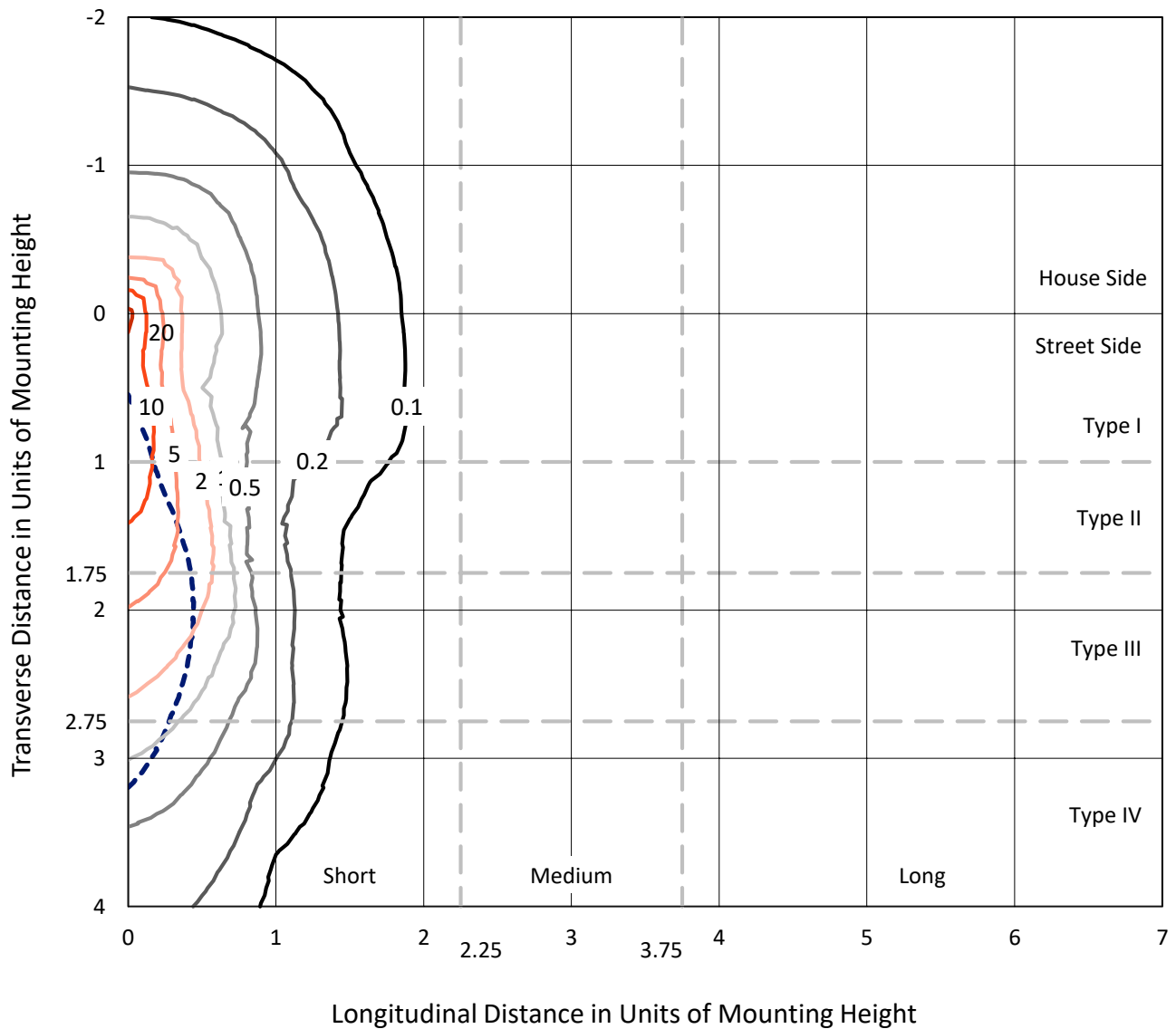
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

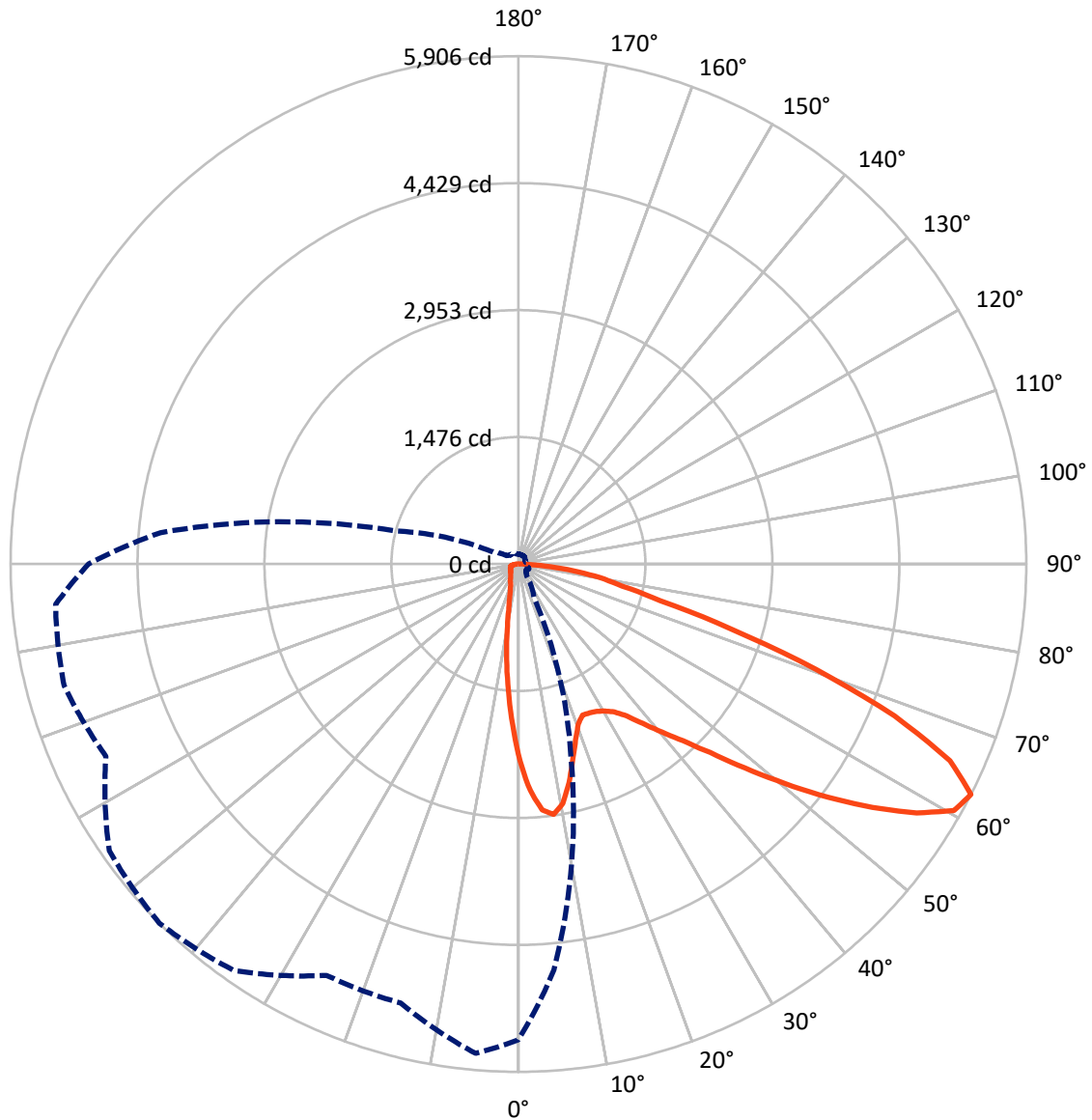
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23 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	1124.9	0.0	1124.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5672.5	0.0	5672.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	6797.3	0.0	6797.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.5
10°-20°	306.6	4.5
20°-30°	447.0	6.6
30°-40°	688.4	10.1
40°-50°	1013.1	14.9
50°-60°	1486.0	21.9
60°-70°	1661.1	24.4
70°-80°	813.3	12.0
80°-90°	214.7	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°	6797.3	100.0
0°-180°	6797.3	100.0

Coefficient of Utilization



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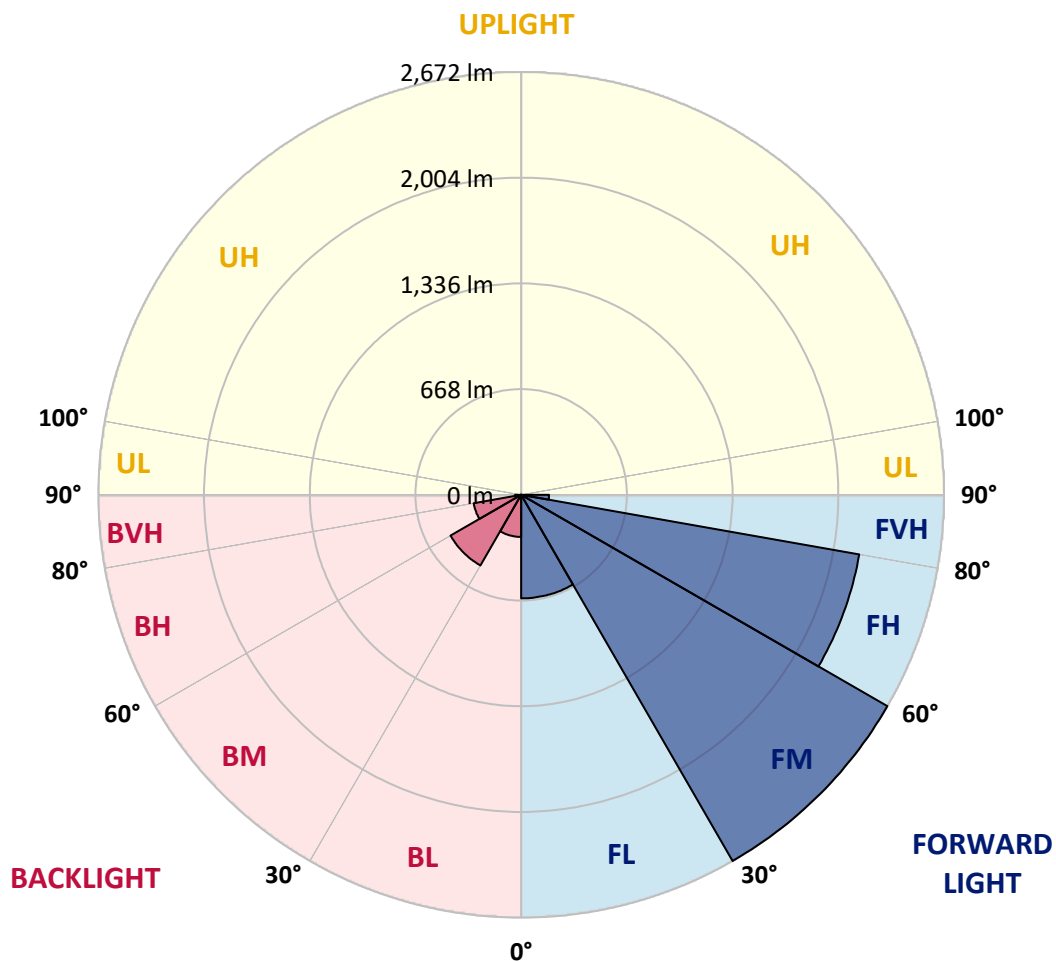
CATALOG NUMBER: GLNA-AF-02-LED-E1-SLR-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.6	9.6			
FM (30°-60°)	2672.1	39.3			
FH (60°-80°)	2169.5	31.9			G2/5000
FVH (80°-90°)	176.3	2.6			G2/225
BL (0°-30°)	266.1	3.9	B1/500		
BM (30°-60°)	515.4	7.6	B1/1000		
BH (60°-80°)	305.0	4.5	B1/500		G1/500
BVH (80°-90°)	38.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6
2.5°	2386.1	2337.6	2256.8	2172.8	2121.7	2061.8	2015.1	1974.0	1891.8	1875.7	1890.3
5°	2243.8	2146.3	1994.2	1841.0	1739.0	1629.5	1544.3	1476.0	1371.7	1353.4	1375.4
7.5°	2015.6	1898.9	1697.9	1502.5	1358.2	1221.5	1129.6	1056.3	974.9	939.8	941.9
10°	1818.6	1687.1	1449.4	1236.8	1118.8	1026.4	949.1	874.0	791.4	737.2	722.3
12.5°	1708.3	1557.1	1283.1	1093.3	983.8	886.7	803.4	723.1	634.8	579.5	563.9
15°	1689.3	1524.8	1220.8	1001.4	864.2	741.4	643.1	553.4	462.5	417.7	408.4
17.5°	1771.9	1582.4	1200.5	919.5	751.8	600.1	479.4	379.3	305.3	282.9	281.0
20°	1930.3	1693.1	1197.9	842.6	640.8	463.0	334.0	261.2	228.7	222.3	222.7
22.5°	2152.7	1864.5	1230.1	784.7	538.8	345.2	251.1	218.5	205.9	199.9	199.9
25°	2440.3	2100.7	1304.0	742.5	450.2	275.8	221.6	202.1	190.2	186.1	186.9
27.5°	2719.2	2330.5	1390.0	709.3	392.3	250.3	209.9	192.4	182.0	177.8	179.7
30°	2936.6	2534.6	1461.7	664.0	362.8	243.2	214.1	196.1	181.2	174.9	175.2
32.5°	3116.7	2713.2	1521.9	631.4	336.6	208.5	184.6	176.7	174.9	167.4	163.7
35°	3346.9	2907.8	1562.3	632.2	324.3	186.1	164.4	150.6	140.5	131.9	131.9
37.5°	3616.7	3131.3	1605.3	640.8	319.9	173.0	157.3	143.4	134.2	125.9	124.4
40°	3883.4	3350.3	1644.5	649.1	317.2	165.2	151.7	139.0	130.4	122.2	119.9
42.5°	4110.3	3530.3	1679.6	653.2	308.3	164.4	147.6	136.0	127.8	118.8	116.6
45°	4278.1	3681.2	1717.4	659.5	299.3	167.4	147.6	135.6	125.6	117.0	114.7
47.5°	4427.8	3858.4	1780.5	659.5	288.5	161.8	152.5	136.0	125.2	116.2	114.4
50°	4628.5	4101.3	1900.1	644.2	273.2	155.8	160.6	134.5	121.8	114.7	112.4
52.5°	4905.0	4412.6	2089.9	617.6	249.7	144.2	159.5	133.8	118.4	111.0	108.4
55°	5232.0	4745.8	2296.9	586.6	214.5	136.0	154.0	131.9	114.7	106.4	103.8
57.5°	5487.2	4975.2	2442.6	538.8	183.8	131.6	136.4	130.1	110.2	101.6	99.4
60°	5588.8	4966.3	2482.6	474.9	168.9	127.8	119.2	145.7	106.4	97.8	95.2
62.5°	5533.9	4736.9	2370.5	430.1	165.5	123.0	111.8	134.8	103.5	95.2	91.5
65°	5280.2	4330.3	2073.5	418.1	175.2	118.1	106.9	105.8	99.4	91.5	87.8
67.5°	4727.5	3722.8	1660.1	419.2	187.6	113.2	102.0	96.8	93.8	87.4	84.0
70°	3850.6	2943.4	1237.5	422.3	193.9	107.6	96.8	91.2	87.8	81.4	79.2
72.5°	2831.3	2268.5	899.1	402.8	195.0	101.2	89.7	84.8	81.4	74.8	72.8
75°	1937.1	1735.3	623.6	333.7	170.0	92.3	81.8	77.4	75.1	66.9	65.7
77.5°	1415.0	1302.6	399.1	247.7	131.1	81.1	72.2	68.8	67.3	58.3	56.8
80°	1135.6	1030.5	249.7	169.7	96.0	68.0	60.5	58.7	57.1	48.2	47.1
82.5°	787.7	690.1	160.3	110.2	72.2	52.7	47.8	47.1	44.8	36.7	35.5
85°	415.5	374.8	101.6	75.1	52.3	36.2	33.3	33.3	32.1	24.3	23.5
87.5°	53.1	86.3	51.6	39.3	28.7	16.1	16.1	15.7	16.9	13.8	12.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6
2.5°	1856.0	1873.9	1856.7	1857.9	1876.9	1933.7	1959.5	1980.7	2003.6	2018.5	2025.2
5°	1345.2	1387.1	1401.2	1431.1	1475.2	1547.7	1576.4	1597.4	1611.3	1619.4	1622.8
7.5°	920.0	945.3	973.7	1021.9	1118.0	1160.6	1179.6	1174.7	1159.1	1153.5	1147.9
10°	693.5	683.5	678.2	704.7	782.4	825.4	838.9	825.8	817.2	819.1	828.4
12.5°	537.3	519.8	498.5	495.5	546.7	585.2	593.8	594.4	610.2	624.0	644.6
15°	391.6	389.7	379.3	373.0	402.0	433.5	437.2	443.9	458.1	468.2	486.1
17.5°	276.1	286.2	294.4	298.5	320.6	343.0	338.9	335.5	332.9	332.9	341.5
20°	222.7	229.4	239.9	251.8	274.3	289.9	279.9	266.4	256.7	253.7	254.9
22.5°	200.7	205.9	211.9	222.3	242.5	253.4	242.5	232.8	223.1	219.7	218.5
25°	189.5	196.1	201.8	209.6	224.5	232.0	221.6	214.5	208.5	204.4	201.4
27.5°	183.1	189.0	190.6	194.3	207.0	213.7	208.5	205.5	201.8	198.1	194.3
30°	176.4	175.2	172.6	173.0	183.1	189.8	189.5	190.2	189.8	188.7	188.0
32.5°	161.1	158.8	156.6	158.8	168.1	174.1	174.5	176.0	176.0	175.7	178.6
35°	134.2	138.2	140.8	147.6	158.8	164.0	161.8	158.0	151.4	147.2	146.8
37.5°	124.1	124.8	129.3	138.6	151.0	155.8	152.5	143.9	139.4	138.6	139.7
40°	119.2	119.9	122.5	131.1	143.4	148.3	145.4	139.0	134.8	134.5	136.4
42.5°	115.8	116.6	118.1	124.1	134.2	140.2	140.5	136.0	131.1	131.6	133.4
45°	113.9	114.4	113.9	117.0	126.2	133.4	136.4	133.4	129.3	130.1	132.2
47.5°	113.6	112.4	111.0	111.8	121.5	128.5	132.2	131.1	129.3	130.1	131.9
50°	112.1	109.5	107.6	107.2	117.0	124.4	127.8	127.8	128.5	130.1	131.9
52.5°	107.6	104.6	104.6	103.5	113.9	121.0	123.3	123.6	124.8	127.4	130.1
55°	102.0	100.9	102.0	100.1	111.8	118.4	119.6	120.4	121.0	123.3	127.0
57.5°	97.2	95.7	98.3	97.5	109.8	115.8	115.8	117.3	117.3	120.4	123.3
60°	94.6	91.5	92.6	93.4	107.2	113.6	112.9	114.4	115.0	117.8	119.9
62.5°	91.2	88.6	88.6	90.4	104.3	110.2	109.8	111.0	113.9	114.7	117.0
65°	87.1	86.0	84.8	87.1	101.2	106.4	106.9	108.4	111.0	111.8	113.6
67.5°	82.9	83.4	81.1	83.4	98.6	102.7	102.7	105.8	106.9	108.4	110.2
70°	78.5	78.8	76.9	79.6	96.8	98.6	98.3	102.4	103.2	104.3	106.1
72.5°	72.8	72.8	72.2	75.9	93.8	94.6	93.8	97.2	97.5	98.6	99.4
75°	66.9	66.9	66.2	71.4	92.0	90.0	87.8	90.4	91.2	92.0	92.0
77.5°	59.0	59.8	59.8	66.2	85.5	88.2	80.7	82.2	83.4	83.7	82.6
80°	49.3	51.2	51.9	60.2	71.7	81.4	72.2	73.2	73.6	73.6	72.2
82.5°	37.8	41.1	43.0	51.9	55.0	68.3	62.8	63.9	62.8	60.5	59.8
85°	26.1	30.7	32.9	39.6	41.5	52.7	52.3	52.3	50.1	47.1	46.7
87.5°	14.3	16.9	18.3	23.5	28.4	35.5	38.5	37.3	35.5	33.6	34.0
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°	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6
2.5°	2060.4	2111.1	2192.3	2254.2	2316.7	2376.9	2441.9	2491.6	2533.8	2550.3	2600.3
5°	1656.9	1720.3	1796.9	1935.1	2033.1	2141.0	2265.9	2431.0	2494.5	2582.4	2726.2
7.5°	1171.5	1228.9	1352.2	1464.0	1602.7	1755.5	1923.9	2151.9	2235.2	2376.1	2610.3
10°	874.8	941.6	1040.6	1134.8	1257.0	1413.2	1606.7	1861.6	1962.8	2115.7	2385.5
12.5°	704.7	783.6	888.6	977.1	1071.7	1181.9	1369.9	1649.3	1785.0	1918.7	2191.5
15°	541.4	624.0	721.6	834.0	938.2	1057.1	1254.0	1559.7	1715.8	1855.3	2088.0
17.5°	374.8	445.4	568.3	685.6	819.1	971.1	1221.9	1578.7	1765.1	1925.9	2105.9
20°	265.7	306.0	406.9	543.0	709.3	900.1	1215.9	1678.8	1921.3	2104.8	2221.0
22.5°	223.4	238.3	297.1	421.8	613.9	847.0	1236.8	1819.3	2132.1	2366.3	2404.5
25°	203.6	212.7	243.2	331.1	529.1	808.6	1307.4	2028.6	2392.9	2628.0	2621.2
27.5°	192.8	202.1	222.3	279.5	465.3	784.7	1378.0	2276.8	2691.1	2911.9	2828.2
30°	189.5	202.1	223.4	263.5	419.7	746.9	1435.9	2494.5	2920.5	3103.7	2922.4
32.5°	186.9	188.7	198.4	227.1	376.2	702.8	1475.2	2690.0	3145.1	3286.0	3058.1
35°	151.0	160.3	176.0	203.6	350.9	676.3	1475.2	2858.5	3366.3	3470.2	3187.4
37.5°	145.4	153.6	167.4	190.9	336.6	663.2	1445.7	3021.1	3592.3	3679.1	3293.8
40°	142.4	149.1	162.2	181.2	330.6	648.3	1402.7	3164.5	3813.1	3888.3	3393.2
42.5°	140.2	146.2	158.5	175.2	322.8	631.9	1368.0	3279.6	4004.9	4066.9	3488.2
45°	139.0	145.4	158.8	178.3	307.1	610.2	1356.4	3404.0	4162.6	4216.0	3590.9
47.5°	139.0	146.5	160.6	184.6	288.5	587.8	1392.6	3568.1	4311.7	4337.8	3711.9
50°	137.9	146.2	165.9	178.3	261.2	559.4	1477.8	3774.7	4473.1	4476.0	3865.2
52.5°	135.6	145.4	178.6	174.5	229.7	522.0	1592.9	4040.1	4711.9	4729.7	4105.0
55°	133.0	144.2	175.2	165.9	204.1	477.6	1687.1	4362.5	5047.4	5097.0	4457.8
57.5°	129.6	142.8	169.7	154.0	187.2	420.4	1721.1	4598.6	5281.7	5406.4	4855.3
60°	126.7	141.6	153.2	146.8	176.7	372.2	1655.3	4551.9	5265.6	5534.6	5207.7
62.5°	123.6	142.8	139.7	142.4	171.8	341.2	1483.4	4177.8	4999.2	5402.4	5468.9
65°	120.4	132.7	131.9	138.6	170.8	328.8	1229.7	3617.0	4484.3	4984.3	5530.5
67.5°	115.8	122.5	126.2	133.8	174.5	318.0	992.4	2983.6	3768.7	4357.6	5209.1
70°	111.0	116.6	120.7	127.8	172.3	313.1	825.4	2352.9	2990.4	3571.4	4575.1
72.5°	104.6	109.5	113.2	119.9	170.0	310.5	697.3	1894.9	2232.6	2653.0	3719.8
75°	97.2	101.6	104.3	111.0	162.9	284.4	548.2	1603.4	1670.7	1845.5	2962.7
77.5°	88.6	92.0	94.1	101.6	144.2	236.5	396.5	1236.8	1297.4	1339.9	2271.4
80°	78.5	81.8	82.9	90.0	119.6	185.0	258.6	913.6	970.3	980.1	1483.4
82.5°	66.9	70.2	70.2	76.9	97.8	133.0	169.7	625.9	637.1	670.0	1048.5
85°	53.8	56.4	56.4	59.8	75.9	99.4	116.6	314.2	310.9	355.0	908.3
87.5°	38.5	40.4	42.2	43.0	54.2	65.7	70.2	95.7	63.1	72.5	583.2
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°	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6
2.5°	2638.1	2659.3	2637.6	2622.0	2554.3	2498.7	2424.3	2386.1
5°	2835.7	2889.9	2871.5	2805.8	2664.5	2505.7	2325.3	2243.8
7.5°	2811.8	2937.7	2940.7	2817.8	2609.7	2375.7	2131.4	2015.6
10°	2625.7	2786.7	2832.7	2713.5	2492.7	2231.2	1950.9	1818.6
12.5°	2417.9	2575.6	2610.8	2569.6	2385.1	2122.3	1838.1	1708.3
15°	2247.9	2318.6	2360.3	2396.3	2292.8	2079.0	1831.6	1689.3
17.5°	2144.4	2136.6	2148.6	2210.9	2228.5	2128.7	1928.8	1771.9
20°	2107.1	1987.2	1984.1	2070.1	2198.2	2247.2	2118.6	1930.3
22.5°	2127.7	1933.3	1908.7	2010.7	2214.3	2417.9	2367.5	2152.7
25°	2198.6	1937.8	1917.9	2016.7	2272.6	2599.9	2636.1	2440.3
27.5°	2310.4	1966.2	1940.0	2041.4	2349.9	2752.8	2900.7	2719.2
30°	2416.5	2015.6	1983.0	2089.9	2420.5	2813.3	3062.9	2936.6
32.5°	2545.4	2107.9	2050.6	2179.1	2508.0	2909.7	3207.5	3116.7
35°	2671.7	2239.3	2168.4	2317.0	2605.5	3029.7	3372.7	3346.9
37.5°	2810.3	2411.3	2352.5	2495.3	2739.0	3142.8	3583.4	3616.7
40°	2958.3	2639.2	2569.6	2755.4	2946.0	3284.9	3803.5	3883.4
42.5°	3107.4	2892.1	2809.2	2997.4	3173.5	3424.9	3991.8	4110.3
45°	3278.1	3166.8	3127.5	3331.1	3392.1	3558.4	4130.8	4278.1
47.5°	3477.0	3478.4	3541.5	3623.0	3612.6	3709.3	4270.6	4427.8
50°	3709.0	3867.3	4006.8	4060.9	3839.7	3871.5	4464.5	4628.5
52.5°	3987.7	4332.6	4505.2	4469.7	4084.5	4069.5	4771.6	4905.0
55°	4336.3	4825.1	4996.6	4971.1	4365.8	4339.3	5154.3	5232.0
57.5°	4739.8	5302.2	5459.9	5345.6	4703.6	4635.3	5470.8	5487.2
60°	5094.4	5680.4	5818.6	5691.9	5044.4	4950.2	5668.4	5588.8
62.5°	5291.7	5808.6	5905.7	5769.3	5277.9	5285.7	5711.7	5533.9
65°	5203.6	5484.6	5515.9	5504.7	5217.7	5480.4	5556.0	5280.2
67.5°	4720.8	4665.5	4718.2	4791.1	4702.1	5224.1	5124.3	4727.5
70°	3870.4	3566.5	3671.6	3720.5	3760.9	4495.5	4447.6	3850.6
72.5°	2916.8	2498.7	2581.6	2571.5	2758.3	3605.8	3459.0	2831.3
75°	2066.7	1694.2	1704.6	1700.5	1924.7	2821.1	2504.7	1937.1
77.5°	1446.0	1227.5	1233.1	1256.2	1294.0	2127.7	1789.4	1415.0
80°	994.3	931.5	962.5	964.5	896.8	1429.3	1322.0	1135.6
82.5°	740.6	647.5	640.0	650.9	702.8	1158.0	1015.9	787.7
85°	606.4	383.4	308.3	386.4	622.8	1146.8	674.9	415.5
87.5°	341.5	182.0	82.2	152.5	248.5	759.3	195.0	53.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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