

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: P298982

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
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-SLL-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left 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

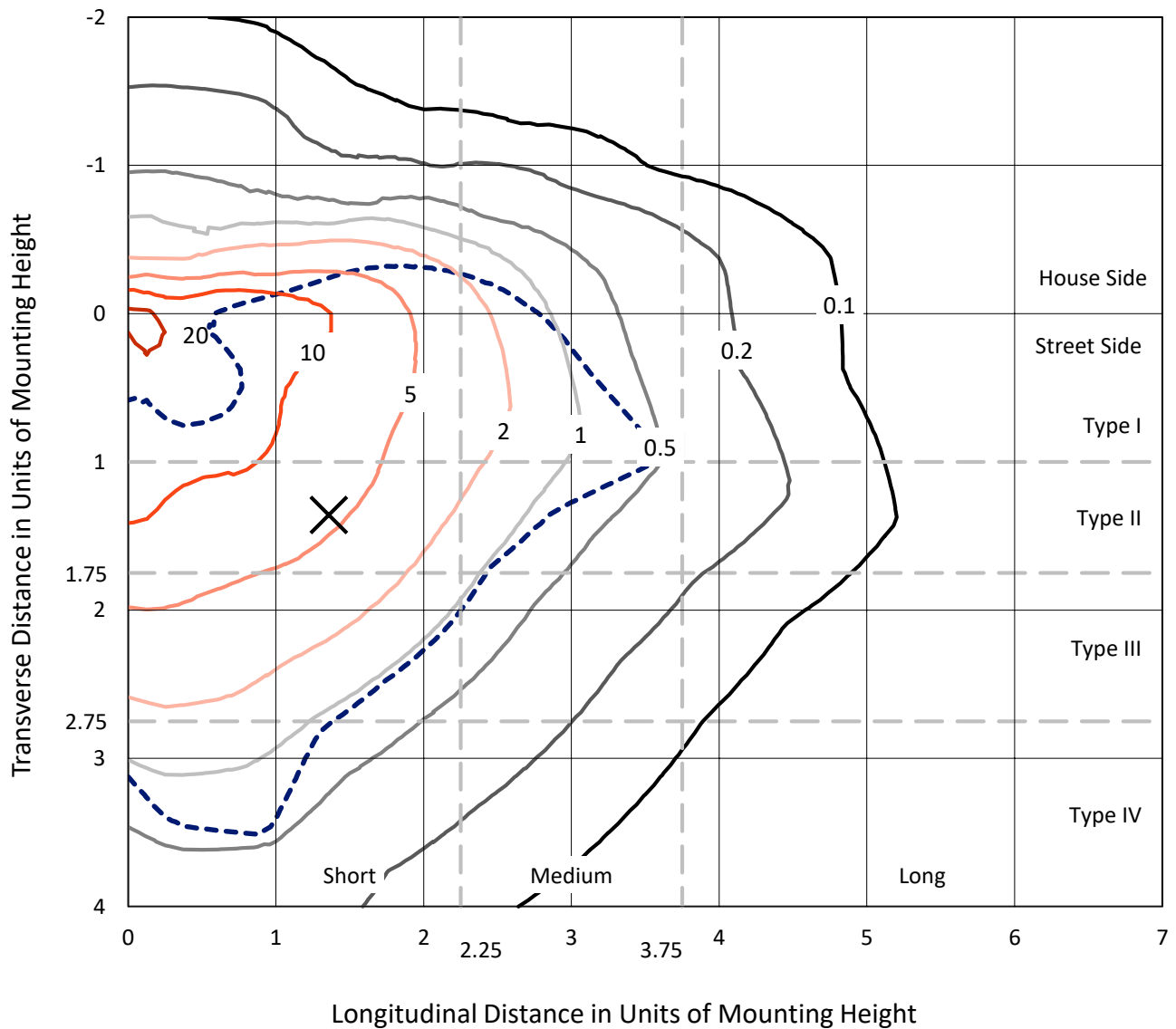
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

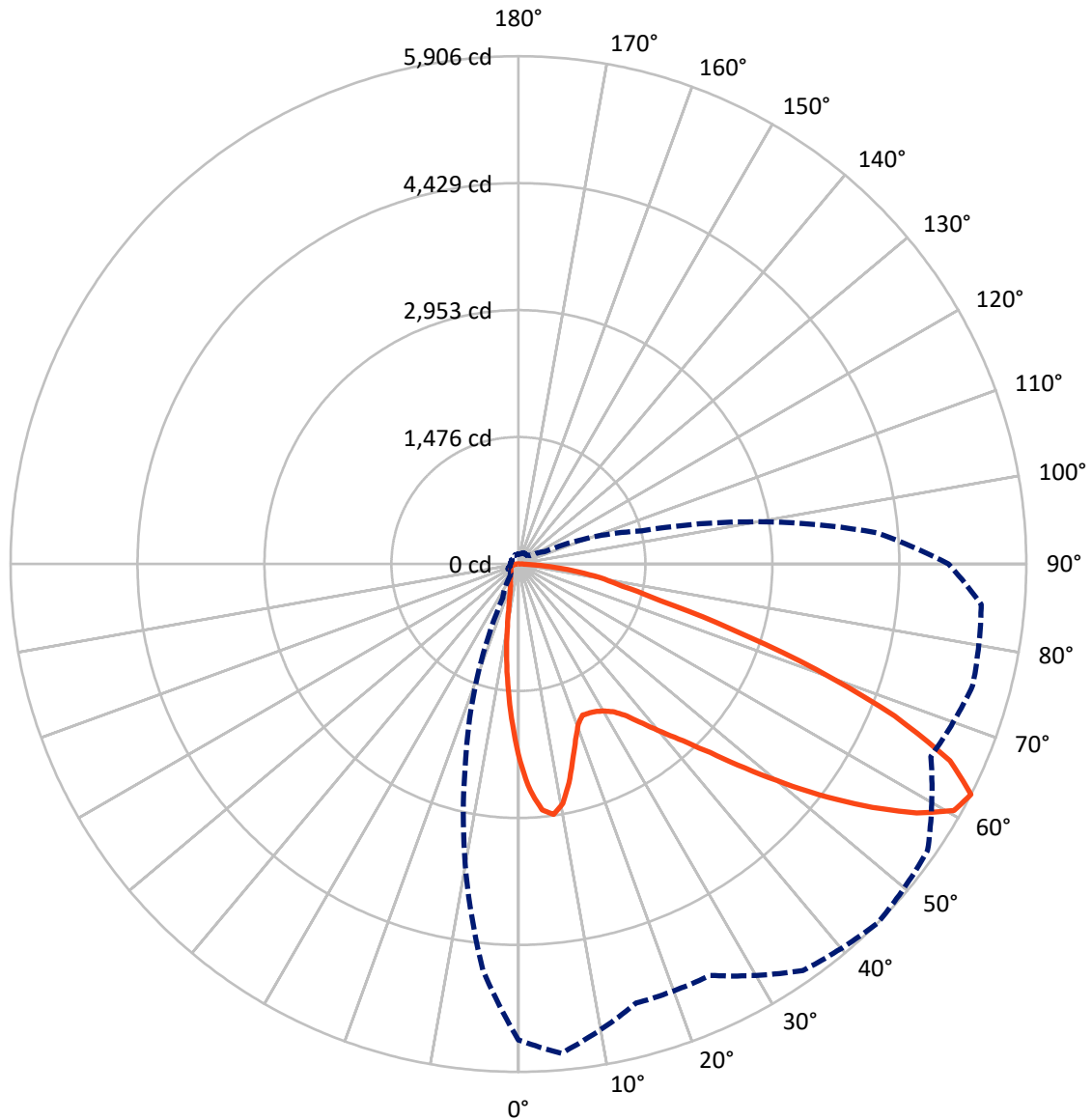


Based on 10 foot mounting height. Maximum calculated value = 27 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-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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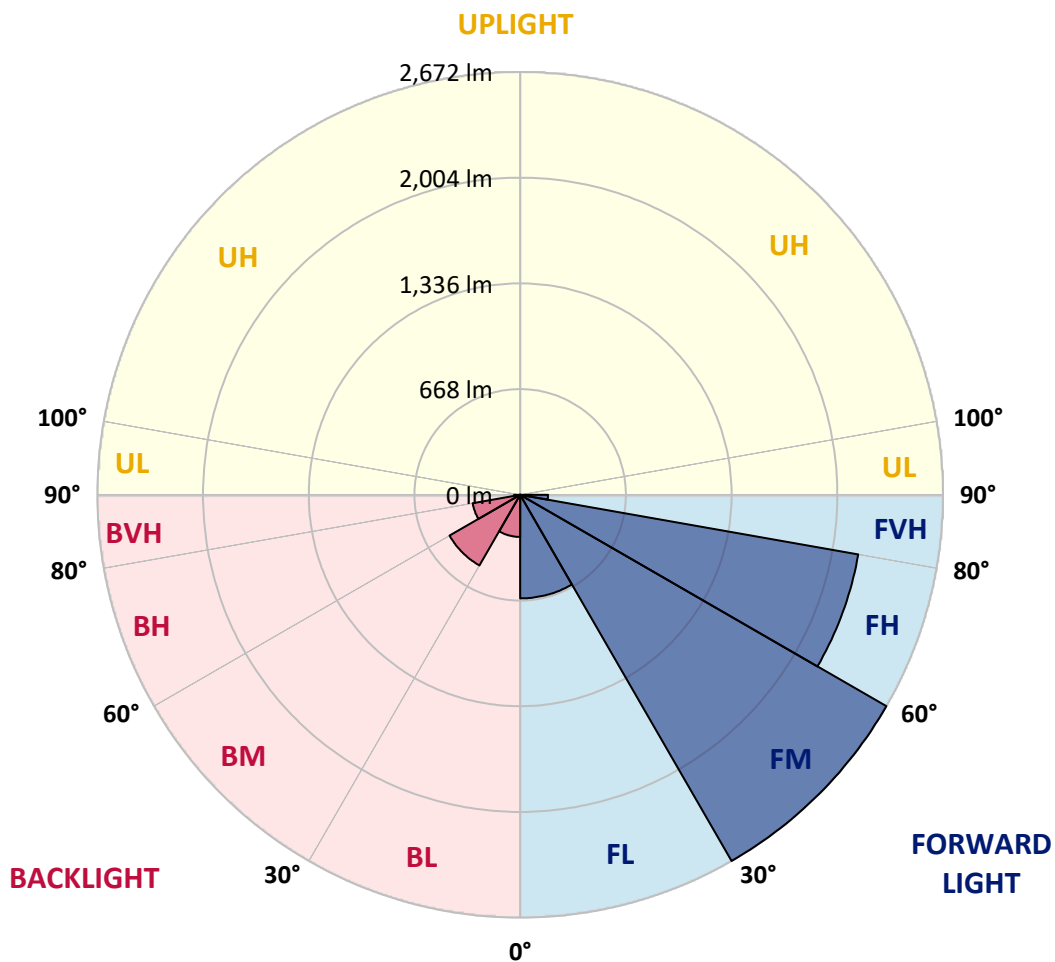
CATALOG NUMBER: GLNA-AF-02-LED-E1-SLL-7030-600

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°)	304.9	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	2424.3	2498.7	2554.2	2622.0	2637.7	2659.4	2638.0	2600.3	2550.2	2533.8
5°	2243.8	2325.3	2505.7	2664.6	2805.8	2871.6	2890.0	2835.6	2726.2	2582.4	2494.5
7.5°	2015.5	2131.4	2375.7	2609.7	2817.7	2940.7	2937.7	2811.7	2610.4	2376.0	2235.2
10°	1818.5	1950.9	2231.2	2492.7	2713.5	2832.7	2786.6	2625.8	2385.4	2115.6	1962.9
12.5°	1708.4	1838.1	2122.4	2385.0	2569.6	2610.8	2575.6	2417.9	2191.4	1918.7	1784.9
15°	1689.2	1831.8	2079.1	2292.8	2396.3	2360.5	2318.5	2247.9	2087.9	1855.2	1715.8
17.5°	1772.0	1928.8	2128.8	2228.5	2210.9	2148.5	2136.6	2144.5	2106.0	1925.8	1765.2
20°	1930.4	2118.6	2247.2	2198.3	2070.1	1984.1	1987.1	2107.1	2221.0	2104.8	1921.3
22.5°	2152.6	2367.5	2417.9	2214.3	2010.7	1908.7	1933.4	2127.7	2404.5	2366.5	2132.1
25°	2440.3	2636.2	2600.0	2272.6	2016.6	1918.0	1937.8	2198.7	2621.2	2628.0	2393.0
27.5°	2719.1	2900.8	2752.7	2350.0	2041.4	1940.1	1966.3	2310.3	2828.2	2911.9	2691.2
30°	2936.6	3063.0	2813.2	2420.6	2089.9	1983.0	2015.5	2416.4	2922.5	3103.6	2920.6
32.5°	3116.7	3207.4	2909.6	2508.0	2179.2	2050.6	2107.8	2545.4	3058.1	3286.0	3145.1
35°	3346.8	3372.6	3029.6	2605.5	2317.1	2168.4	2239.3	2671.6	3187.4	3470.2	3366.3
37.5°	3616.7	3583.5	3142.8	2739.0	2495.4	2352.5	2411.2	2810.3	3293.8	3679.0	3592.3
40°	3883.4	3803.4	3284.9	2945.9	2755.5	2569.6	2639.1	2958.3	3393.3	3888.3	3813.2
42.5°	4110.3	3991.8	3424.9	3173.5	2997.5	2809.2	2892.2	3107.4	3488.1	4066.8	4004.9
45°	4278.0	4130.8	3558.4	3392.1	3331.2	3127.5	3166.8	3278.0	3590.9	4216.0	4162.6
47.5°	4427.8	4270.5	3709.3	3612.6	3623.0	3541.5	3478.3	3476.8	3712.0	4337.8	4311.6
50°	4628.5	4464.5	3871.4	3839.7	4060.9	4006.7	3867.3	3708.9	3865.1	4476.1	4473.1
52.5°	4905.0	4771.7	4069.5	4084.4	4469.8	4505.2	4332.5	3987.8	4104.9	4729.8	4711.9
55°	5232.1	5154.2	4339.4	4365.9	4971.1	4996.6	4825.0	4336.3	4457.8	5097.2	5047.4
57.5°	5487.2	5470.8	4635.3	4703.7	5345.6	5460.0	5302.3	4739.9	4855.3	5406.5	5281.7
60°	5588.8	5668.4	4950.3	5044.4	5692.0	5818.6	5680.4	5094.4	5207.7	5534.7	5265.7
62.5°	5534.0	5711.7	5285.8	5277.9	5769.3	5905.6	5808.5	5291.7	5469.0	5402.4	4999.3
65°	5280.2	5555.9	5480.5	5217.7	5504.7	5515.9	5484.5	5203.6	5530.6	4984.2	4484.2
67.5°	4727.5	5124.3	5224.1	4702.2	4791.0	4718.2	4665.5	4720.8	5209.1	4357.6	3768.7
70°	3850.6	4447.7	4495.4	3760.9	3720.5	3671.5	3566.6	3870.3	4575.1	3571.5	2990.4
72.5°	2831.3	3459.0	3605.8	2758.4	2571.6	2581.5	2498.7	2916.7	3719.8	2653.0	2232.7
75°	1937.1	2504.6	2821.2	1924.7	1700.6	1704.6	1694.1	2066.7	2962.8	1845.5	1670.7
77.5°	1415.1	1789.4	2127.7	1293.9	1256.2	1233.0	1227.4	1446.0	2271.5	1340.0	1297.3
80°	1135.5	1322.1	1429.2	896.8	964.3	962.5	931.5	994.3	1483.4	980.1	970.3
82.5°	787.7	1016.0	1157.9	702.8	650.9	640.0	647.6	740.5	1048.5	669.9	637.1
85°	415.6	674.8	1146.8	622.9	386.3	308.2	383.4	606.4	908.4	355.0	310.8
87.5°	53.1	195.1	759.2	248.5	152.5	82.1	182.1	341.5	583.3	72.4	63.2
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):

	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°	2491.6	2441.9	2376.9	2316.6	2254.3	2192.1	2111.1	2060.3	2025.2	2018.4	2003.6
5°	2431.1	2265.9	2141.1	2033.1	1935.2	1796.8	1720.3	1656.7	1622.8	1619.5	1611.2
7.5°	2151.9	1923.9	1755.5	1602.6	1464.0	1352.3	1228.9	1171.5	1147.9	1153.4	1159.0
10°	1861.5	1606.7	1413.2	1256.9	1134.8	1040.6	941.7	874.8	828.4	819.0	817.2
12.5°	1649.3	1369.8	1182.0	1071.6	977.2	888.5	783.6	704.6	644.6	624.0	610.3
15°	1559.6	1254.0	1057.1	938.3	833.9	721.5	624.0	541.4	486.2	468.2	458.2
17.5°	1578.7	1221.9	971.1	819.0	685.7	568.3	445.4	374.7	341.5	333.0	333.0
20°	1678.9	1215.9	900.1	709.2	542.8	406.8	306.0	265.6	254.9	253.8	256.7
22.5°	1819.4	1236.9	847.2	614.0	421.9	297.1	238.4	223.4	218.6	219.8	223.1
25°	2028.6	1307.5	808.7	529.1	331.0	243.2	212.5	203.7	201.4	204.4	208.5
27.5°	2276.7	1378.1	784.7	465.2	279.5	222.3	202.1	192.9	194.3	198.1	201.7
30°	2494.5	1436.1	747.0	419.7	263.5	223.4	202.1	189.5	188.0	188.7	189.8
32.5°	2690.1	1475.3	702.8	376.3	227.2	198.4	188.7	186.9	178.6	175.5	176.0
35°	2858.6	1475.3	676.4	350.9	203.7	176.0	160.4	151.0	146.8	147.1	151.4
37.5°	3021.1	1445.7	663.3	336.6	190.9	167.4	153.6	145.3	139.7	138.6	139.4
40°	3164.5	1402.7	648.4	330.7	181.2	162.2	149.2	142.3	136.3	134.5	134.9
42.5°	3279.6	1367.9	631.9	322.9	175.2	158.4	146.0	140.1	133.4	131.5	131.1
45°	3404.1	1356.4	610.3	307.1	178.2	158.8	145.3	139.0	132.2	130.0	129.3
47.5°	3568.1	1392.7	587.8	288.5	184.6	160.7	146.4	139.0	131.9	130.0	129.3
50°	3774.6	1477.8	559.3	261.2	178.2	165.9	146.0	137.8	131.9	130.0	128.6
52.5°	4040.0	1592.9	522.1	229.9	174.4	178.6	145.3	135.6	130.0	127.5	124.8
55°	4362.5	1687.0	477.4	204.0	165.9	175.2	144.2	133.1	127.1	123.4	121.1
57.5°	4598.6	1721.0	420.4	187.3	153.9	169.6	142.6	129.7	123.4	120.3	117.4
60°	4551.9	1655.3	372.2	176.7	146.8	153.2	141.6	126.6	120.0	117.8	115.0
62.5°	4178.0	1483.4	341.1	171.9	142.3	139.7	142.6	123.7	117.1	114.6	113.9
65°	3617.1	1229.6	328.8	170.8	138.6	131.9	132.7	120.3	113.5	111.7	111.0
67.5°	2983.6	992.5	318.1	174.4	133.8	126.3	122.6	115.8	110.1	108.3	106.9
70°	2352.9	825.5	313.1	172.2	127.9	120.7	116.7	111.0	106.1	104.2	103.1
72.5°	1894.7	697.2	310.4	169.9	120.0	113.2	109.4	104.6	99.3	98.6	97.5
75°	1603.5	548.2	284.5	162.9	111.0	104.2	101.6	97.2	91.9	91.9	91.2
77.5°	1236.9	396.4	236.5	144.2	101.6	94.1	91.9	88.5	82.6	83.7	83.3
80°	913.6	258.6	185.0	119.6	90.1	83.0	81.8	78.5	72.1	73.6	73.6
82.5°	625.9	169.6	133.1	97.9	76.9	70.2	70.2	66.8	59.8	60.5	62.8
85°	314.3	116.7	99.3	75.8	59.8	56.4	56.4	53.9	46.7	47.1	50.1
87.5°	95.7	70.2	65.7	54.2	42.9	42.2	40.3	38.5	34.0	33.6	35.5
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°	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6	2296.6
2.5°	1980.7	1959.4	1933.8	1876.9	1857.8	1856.6	1874.0	1855.9	1890.3	1875.8	1891.8
5°	1597.3	1576.5	1547.7	1475.3	1431.1	1401.1	1387.1	1345.2	1375.4	1353.4	1371.8
7.5°	1174.8	1179.6	1160.6	1118.0	1022.0	973.8	945.4	919.9	942.0	939.7	974.9
10°	825.8	838.8	825.5	782.5	704.6	678.2	683.4	693.5	722.3	737.1	791.4
12.5°	594.5	593.8	585.2	546.7	495.5	498.4	519.8	537.2	563.8	579.6	634.8
15°	443.8	437.2	433.4	402.0	372.9	379.3	389.7	391.6	408.4	417.8	462.6
17.5°	335.5	338.9	342.9	320.6	298.5	294.4	286.3	276.1	281.1	282.9	305.2
20°	266.4	279.8	290.0	274.3	251.9	239.8	229.4	222.7	222.7	222.3	228.7
22.5°	232.8	242.5	253.4	242.5	222.3	211.8	205.8	200.6	199.9	199.9	205.8
25°	214.6	221.6	232.0	224.6	209.6	201.7	196.1	189.5	186.9	186.1	190.2
27.5°	205.5	208.5	213.7	206.9	194.3	190.6	189.1	183.2	179.6	177.8	182.1
30°	190.2	189.5	189.8	183.2	173.0	172.6	175.2	176.4	175.2	174.8	181.2
32.5°	176.0	174.4	174.1	168.1	158.8	156.6	158.8	161.1	163.6	167.4	174.8
35°	158.1	161.8	164.0	158.8	147.5	140.8	138.3	134.2	131.9	131.9	140.5
37.5°	143.9	152.5	155.9	151.0	138.6	129.3	124.8	124.1	124.5	125.9	134.2
40°	139.0	145.3	148.2	143.5	131.1	122.6	120.0	119.2	120.0	122.3	130.4
42.5°	136.0	140.5	140.1	134.2	124.1	118.1	116.7	115.8	116.7	118.9	127.9
45°	133.4	136.3	133.4	126.3	117.1	113.9	114.3	113.9	114.6	117.1	125.5
47.5°	131.1	132.2	128.6	121.4	111.7	111.0	112.4	113.5	114.3	116.3	125.2
50°	127.9	127.9	124.5	117.1	107.2	107.6	109.4	112.1	112.4	114.6	121.9
52.5°	123.7	123.4	121.1	113.9	103.5	104.6	104.6	107.6	108.3	111.0	118.5
55°	120.3	119.6	118.5	111.7	100.2	102.0	100.9	102.0	103.8	106.5	114.6
57.5°	117.4	115.8	115.8	109.8	97.5	98.3	95.7	97.2	99.3	101.6	110.1
60°	114.3	112.8	113.5	107.2	93.4	92.7	91.6	94.5	95.3	97.9	106.5
62.5°	111.0	109.8	110.1	104.2	90.5	88.5	88.5	91.2	91.6	95.3	103.5
65°	108.3	106.9	106.5	101.3	87.1	84.9	86.0	87.1	87.8	91.6	99.3
67.5°	105.8	102.7	102.7	98.6	83.3	81.0	83.3	83.0	84.2	87.5	93.8
70°	102.4	98.3	98.6	96.8	79.6	76.9	78.8	78.5	79.2	81.4	87.8
72.5°	97.2	93.8	94.5	93.8	75.8	72.1	72.8	72.8	72.8	74.7	81.4
75°	90.5	87.8	90.1	91.9	71.3	66.1	66.8	66.8	65.7	66.8	75.1
77.5°	82.1	80.7	88.2	85.6	66.1	59.8	59.8	59.1	56.9	58.3	67.2
80°	73.3	72.1	81.4	71.7	60.2	52.0	51.2	49.2	47.1	48.2	57.3
82.5°	63.9	62.8	68.4	54.9	52.0	42.9	41.1	37.7	35.5	36.6	44.8
85°	52.4	52.4	52.8	41.5	39.5	32.9	30.7	26.2	23.5	24.3	32.1
87.5°	37.4	38.5	35.5	28.4	23.5	18.3	16.9	14.2	11.9	13.8	16.9
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):

	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°	1974.0	2015.2	2061.9	2121.5	2172.9	2256.8	2337.6	2386.1
5°	1476.0	1544.4	1629.4	1739.1	1841.1	1994.2	2146.3	2243.8
7.5°	1056.3	1129.6	1221.5	1358.2	1502.6	1697.8	1899.0	2015.5
10°	874.1	949.2	1026.4	1118.8	1236.9	1449.4	1687.0	1818.5
12.5°	723.1	803.4	886.7	983.9	1093.3	1283.1	1557.0	1708.4
15°	553.4	643.0	741.3	864.3	1001.3	1220.8	1524.9	1689.2
17.5°	379.3	479.5	600.1	751.8	919.6	1200.5	1582.5	1772.0
20°	261.2	334.1	463.0	640.8	842.7	1198.0	1693.0	1930.4
22.5°	218.6	251.1	345.2	538.8	784.7	1230.1	1864.6	2152.6
25°	202.1	221.6	275.7	450.3	742.5	1304.1	2100.8	2440.3
27.5°	192.5	210.0	250.4	392.4	709.2	1390.0	2330.5	2719.1
30°	196.1	214.1	243.2	362.8	664.0	1461.7	2534.6	2936.6
32.5°	176.7	184.6	208.5	336.6	631.5	1521.8	2713.1	3116.7
35°	150.7	164.4	186.1	324.4	632.2	1562.2	2907.8	3346.8
37.5°	143.5	157.3	173.0	319.9	640.8	1605.3	3131.3	3616.7
40°	139.0	151.7	165.2	317.3	649.1	1644.5	3350.3	3883.4
42.5°	136.0	147.5	164.4	308.2	653.2	1679.7	3530.3	4110.3
45°	135.6	147.5	167.4	299.2	659.5	1717.4	3681.4	4278.0
47.5°	136.0	152.5	161.8	288.5	659.5	1780.5	3858.5	4427.8
50°	134.5	160.7	155.9	273.2	644.2	1900.1	4101.3	4628.5
52.5°	133.8	159.6	144.2	249.6	617.7	2089.9	4412.6	4905.0
55°	131.9	153.9	136.0	214.6	586.7	2296.9	4745.9	5232.1
57.5°	130.0	136.3	131.5	183.9	538.8	2442.6	4975.3	5487.2
60°	145.7	119.2	127.9	168.9	474.9	2482.5	4966.4	5588.8
62.5°	134.9	111.7	123.0	165.6	430.1	2370.5	4736.9	5534.0
65°	105.8	106.9	118.1	175.2	418.1	2073.5	4330.3	5280.2
67.5°	96.8	102.0	113.2	187.7	419.3	1660.1	3722.8	4727.5
70°	91.2	96.8	107.6	194.0	422.2	1237.6	2943.2	3850.6
72.5°	84.9	89.8	101.3	195.1	402.7	899.0	2268.6	2831.3
75°	77.3	81.8	92.3	169.9	333.7	623.6	1735.3	1937.1
77.5°	68.8	72.1	81.0	131.1	247.8	399.1	1302.5	1415.1
80°	58.7	60.5	68.0	96.1	169.6	249.6	1030.6	1135.5
82.5°	47.1	47.8	52.8	72.1	110.1	160.4	690.2	787.7
85°	33.2	33.2	36.3	52.4	75.1	101.6	374.7	415.6
87.5°	15.6	16.0	16.0	28.7	39.2	51.7	86.4	53.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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