

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: P299402

Luminaire Tested: **GLNA-AF-02-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299402
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8336 lumens
Efficiency: N/A
Efficacy: 98.1 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

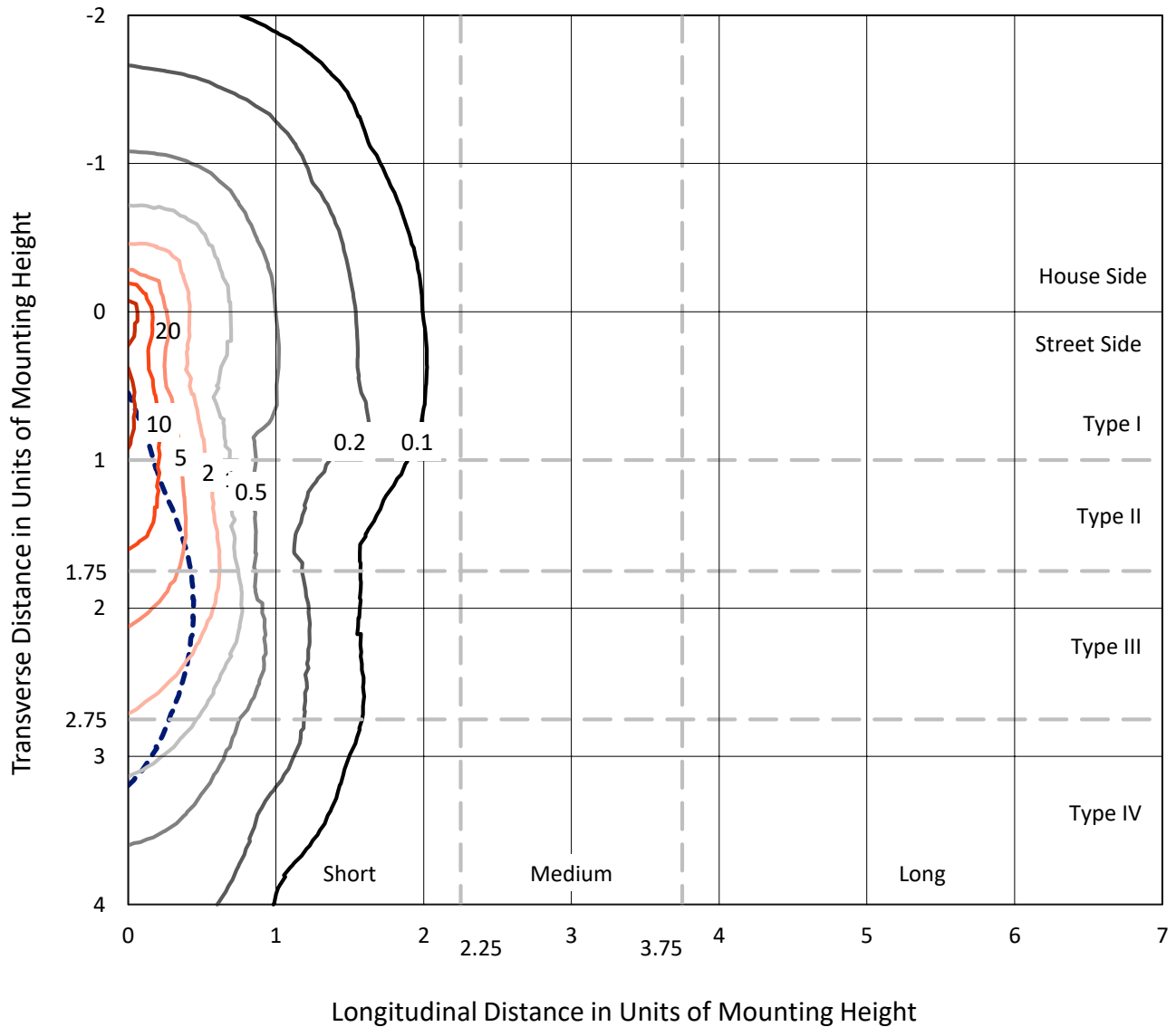
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

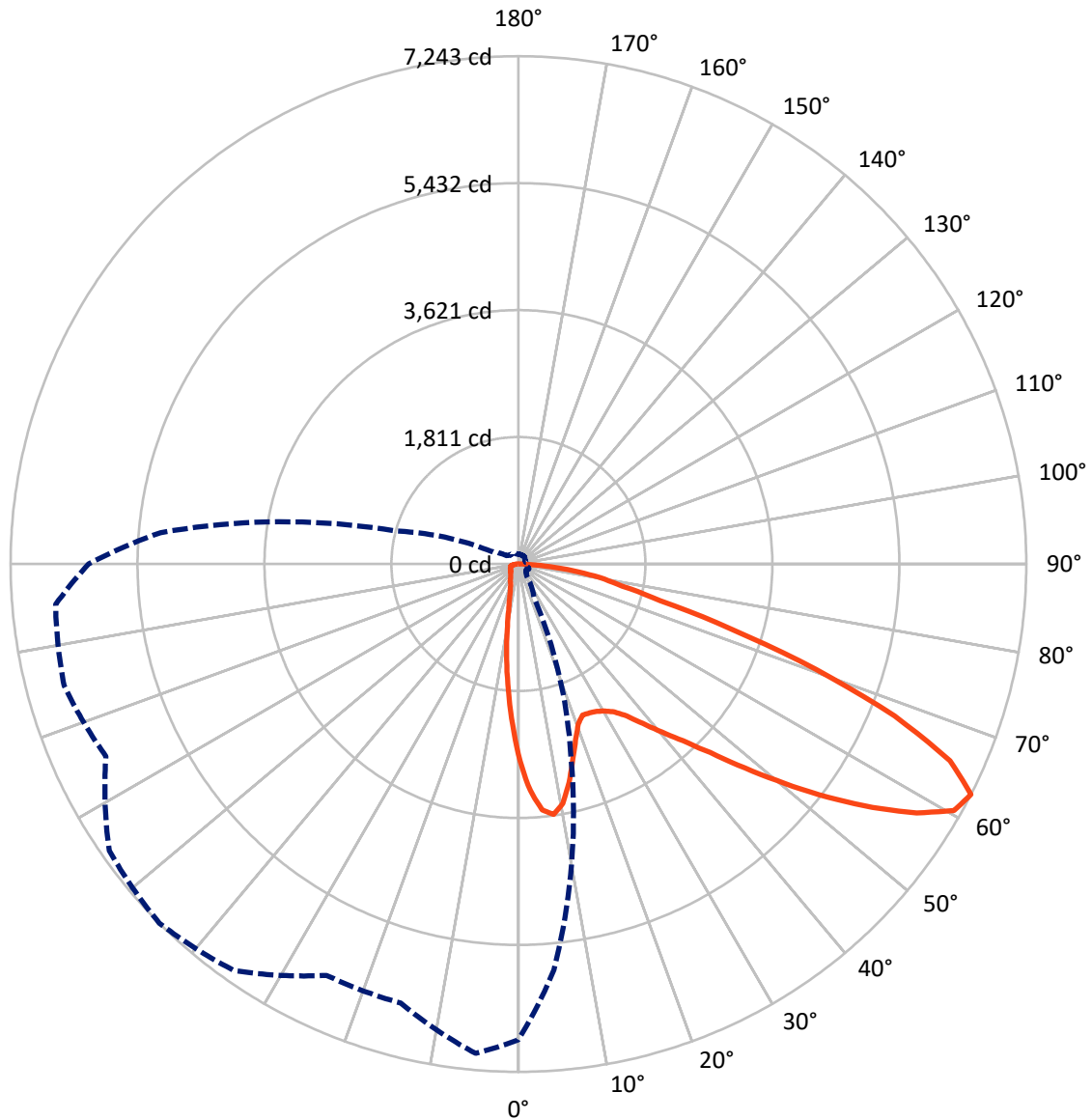
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.2 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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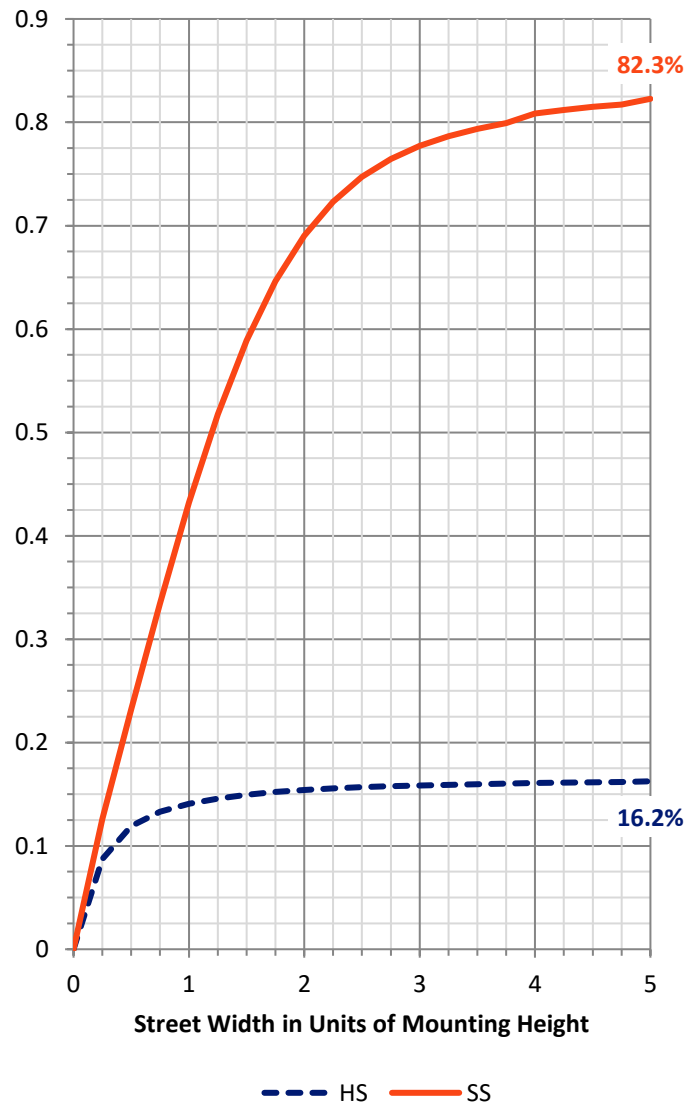
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.5	0.0	1379.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6956.5	0.0	6956.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	8336.0	0.0	8336.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	2.5
10°-20°	375.9	4.5
20°-30°	548.1	6.6
30°-40°	844.2	10.1
40°-50°	1242.4	14.9
50°-60°	1822.4	21.9
60°-70°	2037.2	24.4
70°-80°	997.4	12.0
80°-90°	263.3	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°	8336.0	100.0
0°-180°	8336.0	100.0



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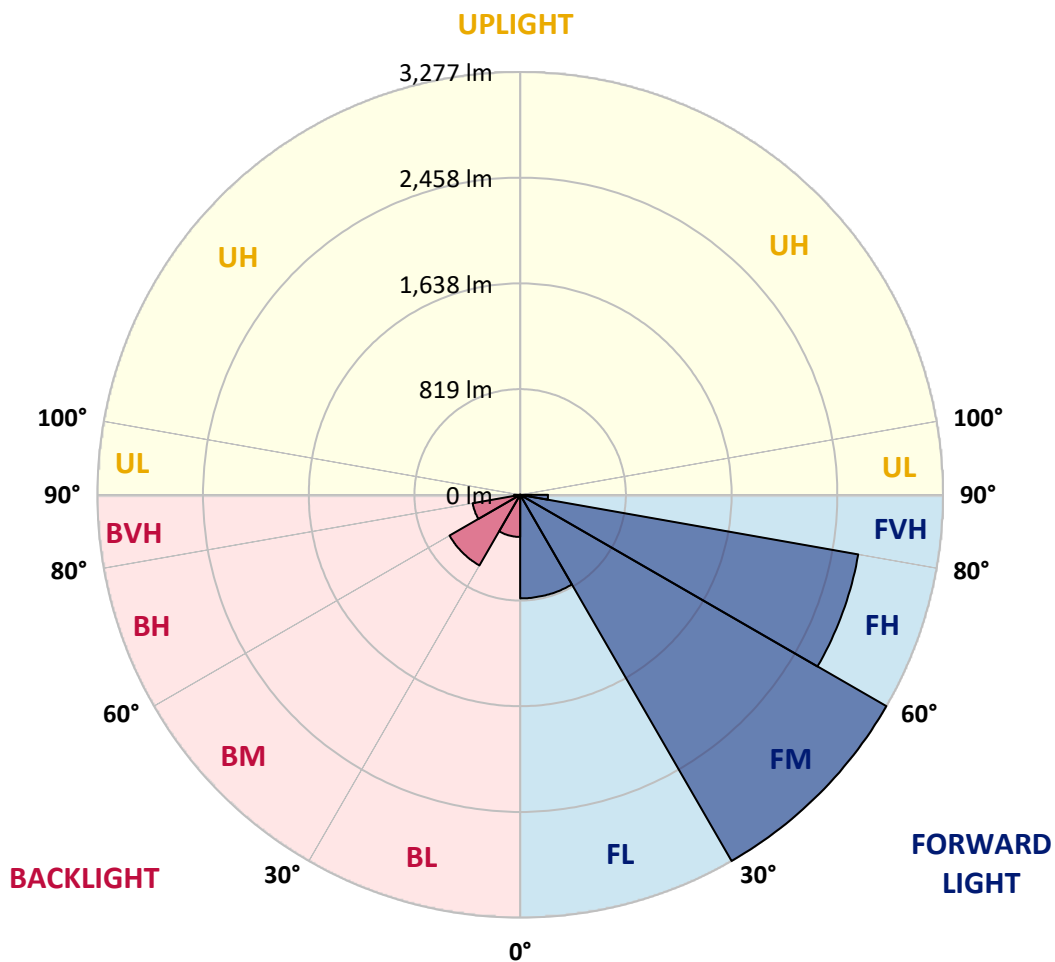
CATALOG NUMBER: GLNA-AF-02-LED-E1-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.7	9.6			
FM (30°-60°)	3276.9	39.3			
FH (60°-80°)	2660.6	31.9			G2/5000
FVH (80°-90°)	216.3	2.6			G2/225
BL (0°-30°)	326.4	3.9	B1/500		
BM (30°-60°)	632.1	7.6	B1/1000		
BH (60°-80°)	374.0	4.5	B1/500		G1/500
BVH (80°-90°)	47.1	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°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2926.3	2866.8	2767.7	2664.6	2601.9	2528.5	2471.2	2420.9	2320.0	2300.3	2318.2
5°	2751.7	2632.2	2445.6	2257.7	2132.6	1998.3	1893.9	1810.1	1682.2	1659.7	1686.8
7.5°	2471.8	2328.8	2082.3	1842.5	1665.7	1498.0	1385.3	1295.4	1195.5	1152.5	1155.2
10°	2230.3	2068.9	1777.5	1516.8	1372.0	1258.8	1163.9	1071.8	970.5	904.1	885.8
12.5°	2095.0	1909.5	1573.6	1340.8	1206.5	1087.5	985.2	886.7	778.5	710.7	691.5
15°	2071.7	1870.0	1497.1	1228.1	1059.9	909.2	788.7	678.6	567.2	512.3	500.8
17.5°	2173.0	1940.6	1472.3	1127.7	922.0	735.9	587.9	465.1	374.4	347.0	344.6
20°	2367.2	2076.3	1469.1	1033.4	785.9	567.8	409.7	320.3	280.5	272.6	273.1
22.5°	2639.9	2286.6	1508.5	962.3	660.7	423.4	308.0	268.0	252.5	245.1	245.1
25°	2992.7	2576.3	1599.2	910.6	552.1	338.2	271.8	247.9	233.2	228.2	229.2
27.5°	3334.7	2858.0	1704.7	869.8	481.1	307.0	257.5	236.0	223.2	218.1	220.4
30°	3601.3	3108.3	1792.6	814.3	444.9	298.3	262.6	240.5	222.2	214.5	214.9
32.5°	3822.2	3327.3	1866.4	774.4	412.8	255.7	226.4	216.7	214.5	205.3	200.7
35°	4104.5	3566.1	1915.9	775.3	397.7	228.2	201.6	184.6	172.3	161.8	161.8
37.5°	4435.3	3840.0	1968.6	785.9	392.3	212.1	193.0	175.9	164.5	154.4	152.6
40°	4762.4	4108.6	2016.8	796.0	389.0	202.5	186.0	170.5	159.9	149.8	147.0
42.5°	5040.7	4329.5	2059.8	801.0	378.0	201.6	181.0	166.7	156.8	145.7	143.0
45°	5246.4	4514.5	2106.1	808.8	367.1	205.3	181.0	166.3	154.0	143.4	140.7
47.5°	5430.1	4731.8	2183.5	808.8	353.7	198.4	187.0	166.7	153.6	142.5	140.3
50°	5676.2	5029.6	2330.2	790.0	335.0	191.0	197.0	164.9	149.4	140.7	137.9
52.5°	6015.3	5411.4	2562.9	757.4	306.2	176.9	195.6	164.1	145.2	136.1	132.9
55°	6416.3	5820.1	2816.8	719.4	263.0	166.7	188.8	161.8	140.7	130.5	127.3
57.5°	6729.3	6101.4	2995.5	660.7	225.4	161.3	167.3	159.5	135.1	124.6	121.9
60°	6853.8	6090.4	3044.6	582.4	207.1	156.8	146.2	178.7	130.5	120.0	116.8
62.5°	6786.6	5809.1	2907.1	527.4	203.0	150.8	137.1	165.4	126.9	116.8	112.2
65°	6475.4	5310.5	2542.8	512.7	214.9	144.8	131.1	129.7	121.9	112.2	107.7
67.5°	5797.6	4565.4	2035.9	514.1	230.0	138.9	125.1	118.7	115.0	107.2	103.1
70°	4722.2	3609.6	1517.7	517.9	237.8	131.9	118.7	111.8	107.7	99.9	97.1
72.5°	3472.1	2782.0	1102.6	494.0	239.2	124.2	110.0	104.0	99.9	91.7	89.3
75°	2375.5	2128.0	764.8	409.2	208.5	113.2	100.3	94.9	92.1	82.0	80.6
77.5°	1735.3	1597.4	489.4	303.8	160.8	99.5	88.5	84.3	82.5	71.4	69.6
80°	1392.7	1263.8	306.2	208.1	117.8	83.4	74.2	72.0	70.1	59.1	57.7
82.5°	965.9	846.4	196.6	135.1	88.5	64.6	58.7	57.7	54.9	44.9	43.6
85°	509.5	459.6	124.6	92.1	64.1	44.4	40.8	40.8	39.4	29.8	28.9
87.5°	65.1	105.8	63.3	48.1	35.2	19.7	19.7	19.3	20.7	16.9	14.7
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°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2276.1	2298.1	2277.0	2278.4	2301.7	2371.4	2403.0	2429.1	2457.1	2475.4	2483.6
5°	1649.7	1701.0	1718.4	1755.0	1809.1	1898.0	1933.3	1958.9	1976.0	1986.0	1990.1
7.5°	1128.3	1159.3	1194.1	1253.2	1371.0	1423.3	1446.6	1440.7	1421.5	1414.6	1407.8
10°	850.5	838.2	831.7	864.3	959.6	1012.3	1028.8	1012.7	1002.1	1004.5	1015.9
12.5°	658.9	637.4	611.4	607.6	670.5	717.6	728.2	729.0	748.3	765.2	790.5
15°	480.3	477.9	465.1	457.4	493.0	531.6	536.2	544.4	561.8	574.2	596.1
17.5°	338.6	351.0	361.1	366.1	393.1	420.6	415.6	411.5	408.3	408.3	418.8
20°	273.1	281.3	294.2	308.8	336.4	355.6	343.2	326.7	314.8	311.2	312.5
22.5°	246.1	252.5	259.8	272.6	297.4	310.7	297.4	285.5	273.6	269.4	268.0
25°	232.4	240.5	247.5	257.1	275.4	284.5	271.8	263.0	255.7	250.7	246.9
27.5°	224.6	231.8	233.8	238.3	253.9	262.1	255.7	252.1	247.5	242.9	238.3
30°	216.3	214.9	211.7	212.1	224.6	232.8	232.4	233.2	232.8	231.4	230.6
32.5°	197.5	194.8	192.0	194.8	206.1	213.5	214.1	215.9	215.9	215.4	219.0
35°	164.5	169.5	172.7	181.0	194.8	201.2	198.4	193.8	185.6	180.5	180.1
37.5°	152.2	153.0	158.6	169.9	185.2	191.0	187.0	176.5	170.9	169.9	171.3
40°	146.2	147.0	150.2	160.8	175.9	181.9	178.3	170.5	165.4	164.9	167.3
42.5°	142.1	143.0	144.8	152.2	164.5	171.9	172.3	166.7	160.8	161.3	163.6
45°	139.7	140.3	139.7	143.4	154.8	163.6	167.3	163.6	158.6	159.5	162.2
47.5°	139.3	137.9	136.1	137.1	149.0	157.6	162.2	160.8	158.6	159.5	161.8
50°	137.5	134.3	131.9	131.5	143.4	152.6	156.8	156.8	157.6	159.5	161.8
52.5°	131.9	128.3	128.3	126.9	139.7	148.4	151.2	151.6	153.0	156.2	159.5
55°	125.1	123.7	125.1	122.8	137.1	145.2	146.6	147.6	148.4	151.2	155.8
57.5°	119.2	117.4	120.6	119.6	134.7	142.1	142.1	143.9	143.9	147.6	151.2
60°	116.0	112.2	113.6	114.6	131.5	139.3	138.4	140.3	141.1	144.4	147.0
62.5°	111.8	108.6	108.6	110.8	127.9	135.1	134.7	136.1	139.7	140.7	143.4
65°	106.8	105.4	104.0	106.8	124.2	130.5	131.1	132.9	136.1	137.1	139.3
67.5°	101.7	102.2	99.5	102.2	121.0	126.0	126.0	129.7	131.1	132.9	135.1
70°	96.3	96.7	94.3	97.7	118.7	121.0	120.6	125.5	126.5	127.9	130.1
72.5°	89.3	89.3	88.5	93.1	115.0	116.0	115.0	119.2	119.6	121.0	121.9
75°	82.0	82.0	81.2	87.5	112.8	110.4	107.7	110.8	111.8	112.8	112.8
77.5°	72.4	73.4	73.4	81.2	104.9	108.2	98.9	100.9	102.2	102.7	101.3
80°	60.5	62.8	63.7	73.8	88.0	99.9	88.5	89.8	90.3	90.3	88.5
82.5°	46.3	50.4	52.7	63.7	67.4	83.8	77.0	78.4	77.0	74.2	73.4
85°	32.0	37.6	40.4	48.6	50.9	64.6	64.1	64.1	61.5	57.7	57.3
87.5°	17.5	20.7	22.5	28.9	34.8	43.6	47.2	45.8	43.6	41.2	41.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2526.7	2589.0	2688.5	2764.5	2841.1	2914.9	2994.7	3055.6	3107.3	3127.6	3188.9
5°	2031.9	2109.7	2203.6	2373.2	2493.3	2625.6	2778.8	2981.3	3059.2	3167.0	3343.3
7.5°	1436.6	1507.1	1658.3	1795.4	1965.5	2152.9	2359.4	2639.0	2741.2	2913.9	3201.2
10°	1072.8	1154.7	1276.1	1391.7	1541.5	1733.1	1970.4	2283.0	2407.2	2594.6	2925.4
12.5°	864.3	960.9	1089.7	1198.3	1314.3	1449.4	1680.0	2022.6	2189.1	2353.1	2687.5
15°	663.9	765.2	884.9	1022.8	1150.6	1296.4	1537.9	1912.7	2104.2	2275.2	2560.6
17.5°	459.6	546.2	697.0	840.8	1004.5	1191.0	1498.5	1936.0	2164.7	2361.8	2582.6
20°	325.9	375.3	499.0	665.9	869.8	1103.8	1491.2	2058.8	2356.2	2581.3	2723.7
22.5°	274.0	292.3	364.3	517.3	752.9	1038.8	1516.8	2231.1	2614.7	2902.0	2948.7
25°	249.7	260.8	298.3	406.0	648.8	991.6	1603.4	2487.8	2934.6	3222.9	3214.5
27.5°	236.4	247.9	272.6	342.8	570.6	962.3	1689.9	2792.1	3300.3	3571.1	3468.4
30°	232.4	247.9	274.0	323.1	514.7	916.0	1761.0	3059.2	3581.6	3806.2	3584.0
32.5°	229.2	231.4	243.3	278.6	461.4	861.9	1809.1	3298.9	3857.0	4029.8	3750.3
35°	185.2	196.6	215.9	249.7	430.3	829.4	1809.1	3505.6	4128.3	4255.7	3908.9
37.5°	178.3	188.4	205.3	234.2	412.8	813.3	1772.9	3704.9	4405.5	4511.9	4039.4
40°	174.7	182.8	198.9	222.2	405.5	795.0	1720.2	3880.8	4676.3	4768.4	4161.3
42.5°	171.9	179.2	194.4	214.9	395.9	774.9	1677.6	4021.9	4911.4	4987.4	4277.7
45°	170.5	178.3	194.8	218.6	376.6	748.3	1663.5	4174.5	5104.8	5170.3	4403.7
47.5°	170.5	179.6	197.0	226.4	353.7	720.8	1707.8	4375.8	5287.6	5319.7	4552.1
50°	169.1	179.2	203.5	218.6	320.3	686.0	1812.3	4629.1	5485.6	5489.2	4740.1
52.5°	166.3	178.3	219.0	214.1	281.8	640.2	1953.5	4954.6	5778.5	5800.4	5034.2
55°	163.1	176.9	214.9	203.5	250.3	585.7	2068.9	5349.9	6189.9	6250.8	5466.9
57.5°	159.0	175.1	208.1	188.8	229.6	515.5	2110.7	5639.6	6477.2	6630.2	5954.4
60°	155.4	173.7	187.8	180.1	216.7	456.4	2030.0	5582.3	6457.5	6787.4	6386.5
62.5°	151.6	175.1	171.3	174.7	210.7	418.4	1819.2	5123.5	6130.8	6625.2	6706.8
65°	147.6	162.7	161.8	169.9	209.5	403.3	1508.1	4435.7	5499.3	6112.5	6782.4
67.5°	142.1	150.2	154.8	164.1	214.1	390.0	1217.0	3659.0	4621.8	5344.0	6388.3
70°	136.1	143.0	148.0	156.8	211.3	384.0	1012.3	2885.5	3667.3	4379.8	5610.7
72.5°	128.3	134.3	138.9	147.0	208.5	380.8	855.1	2323.8	2738.0	3253.5	4561.8
75°	119.2	124.6	127.9	136.1	199.8	348.8	672.3	1966.3	2048.8	2263.3	3633.3
77.5°	108.6	112.8	115.4	124.6	176.9	290.1	486.2	1516.8	1591.0	1643.2	2785.6
80°	96.3	100.3	101.7	110.4	146.6	226.8	317.1	1120.3	1190.0	1201.9	1819.2
82.5°	82.0	86.1	86.1	94.3	120.0	163.1	208.1	767.6	781.3	821.7	1285.8
85°	66.0	69.2	69.2	73.4	93.1	121.9	143.0	385.4	381.2	435.3	1114.0
87.5°	47.2	49.5	51.7	52.7	66.4	80.6	86.1	117.4	77.4	88.9	715.3
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°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	3235.2	3261.3	3234.7	3215.5	3132.5	3064.3	2973.0	2926.3
5°	3477.6	3544.0	3521.5	3440.9	3267.7	3072.9	2851.6	2751.7
7.5°	3448.3	3602.7	3606.3	3455.6	3200.4	2913.5	2613.9	2471.8
10°	3220.1	3417.5	3474.0	3327.7	3056.9	2736.2	2392.5	2230.3
12.5°	2965.2	3158.6	3201.8	3151.3	2925.0	2602.8	2254.1	2095.0
15°	2756.7	2843.4	2894.6	2938.8	2811.8	2549.6	2246.2	2071.7
17.5°	2629.8	2620.2	2634.9	2711.4	2732.9	2610.5	2365.4	2173.0
20°	2584.0	2437.0	2433.2	2538.7	2695.8	2755.9	2598.2	2367.2
22.5°	2609.3	2370.9	2340.7	2465.8	2715.5	2965.2	2903.4	2639.9
25°	2696.3	2376.5	2352.1	2473.2	2787.0	3188.5	3232.8	2992.7
27.5°	2833.3	2411.3	2379.1	2503.4	2881.9	3375.9	3557.3	3334.7
30°	2963.4	2471.8	2431.8	2562.9	2968.4	3450.1	3756.3	3601.3
32.5°	3121.6	2585.0	2514.8	2672.4	3075.7	3568.3	3933.5	3822.2
35°	3276.4	2746.2	2659.2	2841.5	3195.3	3715.5	4136.1	4104.5
37.5°	3446.5	2957.1	2885.1	3060.1	3358.9	3854.2	4394.5	4435.3
40°	3627.9	3236.6	3151.3	3379.1	3612.8	4028.4	4664.5	4762.4
42.5°	3810.8	3546.8	3445.1	3675.9	3891.8	4200.2	4895.3	5040.7
45°	4020.1	3883.6	3835.5	4085.2	4159.9	4363.9	5065.8	5246.4
47.5°	4264.0	4265.8	4343.2	4443.1	4430.3	4548.9	5237.3	5430.1
50°	4548.5	4742.7	4913.8	4980.1	4708.9	4747.9	5475.1	5676.2
52.5°	4890.3	5313.3	5525.0	5481.4	5009.1	4990.6	5851.7	6015.3
55°	5317.9	5917.3	6127.6	6096.4	5354.1	5321.5	6321.0	6416.3
57.5°	5812.7	6502.5	6695.8	6555.6	5768.3	5684.5	6709.2	6729.3
60°	6247.6	6966.2	7135.7	6980.4	6186.3	6070.7	6951.5	6853.8
62.5°	6489.6	7123.4	7242.6	7075.3	6472.6	6482.2	7004.6	6786.6
65°	6381.5	6726.1	6764.5	6750.8	6398.8	6720.9	6813.6	6475.4
67.5°	5789.4	5721.6	5786.2	5875.6	5766.5	6406.6	6284.2	5797.6
70°	4746.5	4373.9	4502.7	4562.7	4612.2	5513.1	5454.4	4722.2
72.5°	3577.0	3064.3	3166.0	3153.6	3382.7	4422.0	4241.9	3472.1
75°	2534.5	2077.7	2090.4	2085.5	2360.4	3459.7	3071.6	2375.5
77.5°	1773.3	1505.3	1512.2	1540.5	1586.9	2609.3	2194.5	1735.3
80°	1219.4	1142.4	1180.4	1182.8	1099.8	1752.8	1621.3	1392.7
82.5°	908.2	794.1	784.9	798.2	861.9	1420.1	1245.9	965.9
85°	743.7	470.1	378.0	473.9	763.8	1406.4	827.6	509.5
87.5°	418.8	223.2	100.9	187.0	304.8	931.1	239.2	65.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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