

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: P450725

Luminaire Tested: **GALN-SA1C-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6132 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

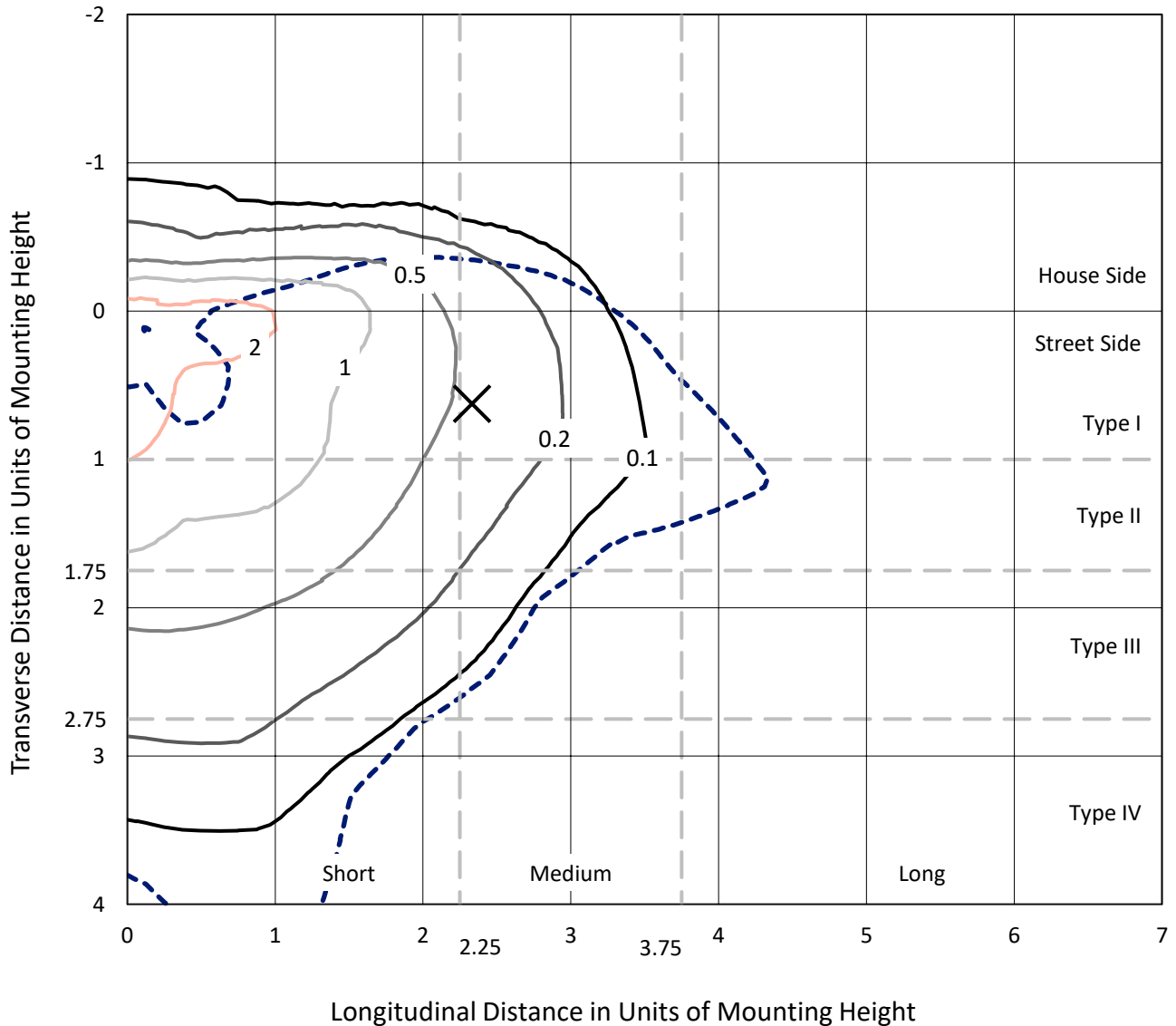
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

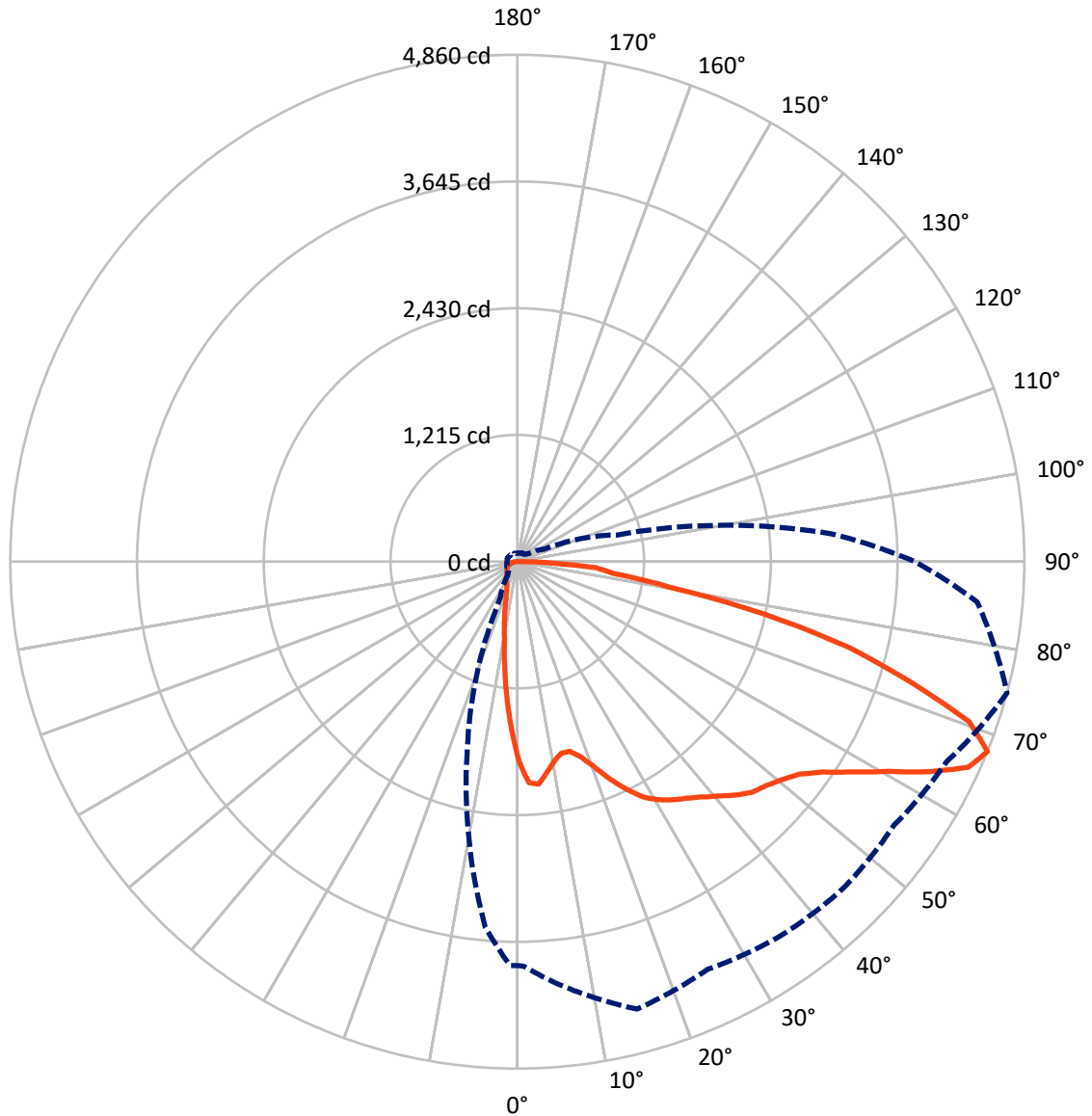
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.4	0.0	1036.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	5095.6	0.0	5095.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	6132.0	0.0	6132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	2.4
10°-20°	303.0	4.9
20°-30°	436.1	7.1
30°-40°	628.1	10.2
40°-50°	882.3	14.4
50°-60°	1230.5	20.1
60°-70°	1462.9	23.9
70°-80°	861.6	14.1
80°-90°	182.2	3.0
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°	6132.0	100.0
0°-180°	6132.0	100.0

Coefficient of Utilization



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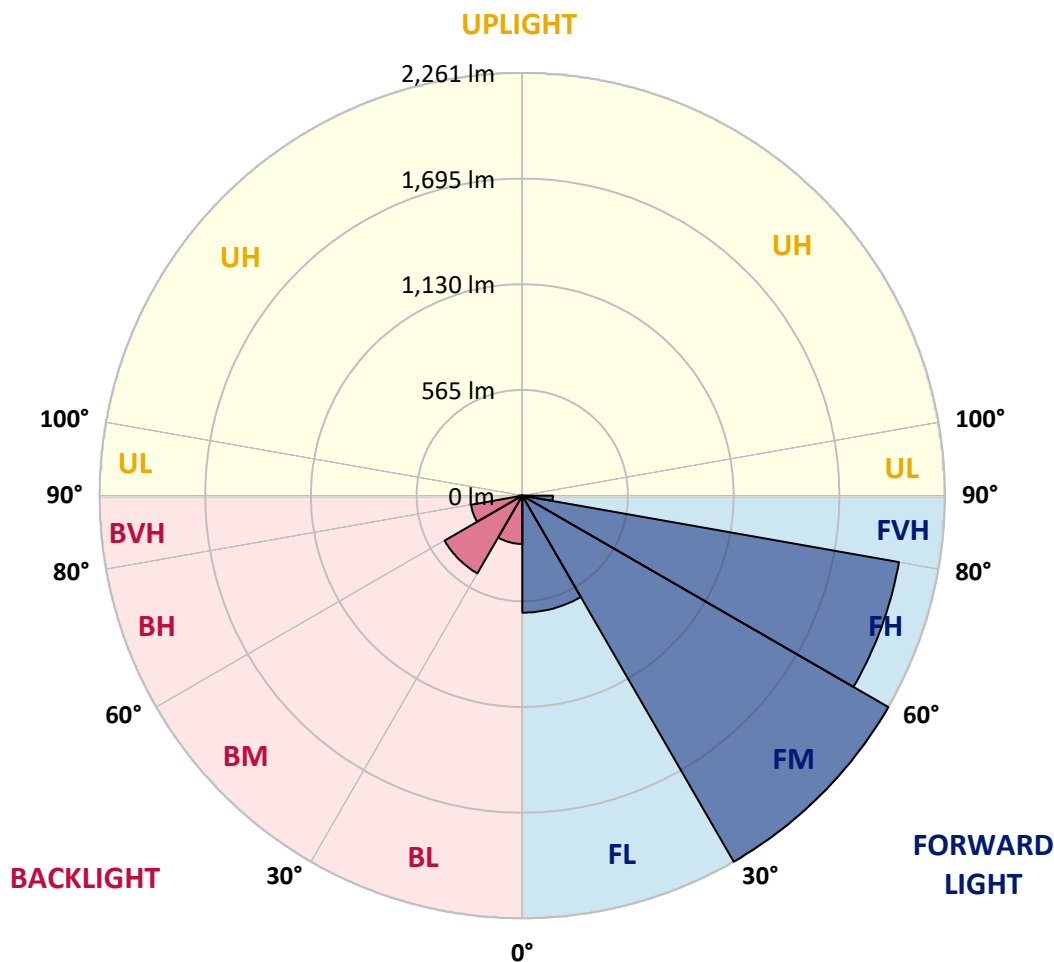
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.9	10.2			
FM (30°-60°)	2260.6	36.9			
FH (60°-80°)	2045.7	33.4			G2/5000
FVH (80°-90°)	163.4	2.7			G2/225
BL (0°-30°)	258.5	4.2	B1/500		
BM (30°-60°)	480.2	7.8	B1/1000		
BH (60°-80°)	278.9	4.5	B1/500		G1/500
BVH (80°-90°)	18.8	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8
2.5°	2065.6	2068.4	2086.0	2137.6	2172.9	2185.9	2195.0	2178.1	2161.5	2121.4	2060.9
5°	2059.3	2075.4	2121.4	2237.0	2328.3	2367.6	2379.4	2328.7	2244.9	2141.9	2018.0
7.5°	1939.0	1960.6	2031.4	2225.2	2386.1	2478.1	2465.9	2374.3	2223.3	2039.6	1866.6
10°	1796.2	1820.2	1905.6	2139.9	2347.1	2473.8	2473.8	2362.1	2161.5	1943.3	1743.9
12.5°	1683.0	1708.2	1805.7	2052.2	2266.1	2386.1	2406.1	2310.2	2117.1	1882.4	1663.3
15°	1645.6	1670.0	1775.0	1999.1	2180.4	2253.6	2260.2	2228.8	2095.5	1886.7	1659.8
17.5°	1692.0	1723.5	1829.7	2014.9	2101.8	2106.1	2111.2	2136.0	2097.8	1965.7	1731.4
20°	1826.1	1859.9	1970.8	2065.6	2033.0	1988.1	1990.9	2054.6	2125.8	2096.3	1902.4
22.5°	2019.6	2049.1	2162.7	2154.9	2003.9	1911.5	1892.2	1981.1	2167.1	2259.1	2084.5
25°	2228.4	2263.0	2393.5	2287.4	2012.1	1865.8	1853.7	1937.8	2209.9	2411.2	2294.8
27.5°	2467.5	2501.3	2604.3	2421.1	2055.4	1862.3	1847.8	1933.9	2248.4	2552.0	2495.8
30°	2645.2	2676.3	2746.3	2533.5	2108.5	1885.9	1867.8	1964.9	2281.5	2648.4	2691.6
32.5°	2784.8	2817.0	2855.2	2603.5	2178.5	1928.8	1895.3	2021.6	2324.7	2721.9	2836.7
35°	2930.3	2968.4	2965.7	2665.7	2243.7	1978.3	1945.7	2103.3	2392.8	2786.0	3020.7
37.5°	3114.7	3130.1	3110.4	2721.5	2322.0	2067.6	2049.5	2224.9	2489.5	2863.4	3235.8
40°	3301.9	3332.6	3231.5	2789.1	2417.1	2235.5	2233.5	2404.6	2604.3	2954.3	3444.2
42.5°	3462.3	3488.3	3344.8	2848.1	2532.4	2440.3	2455.3	2645.6	2754.9	3059.7	3611.8
45°	3583.0	3606.2	3449.4	2905.1	2684.1	2677.1	2765.1	2904.0	2944.8	3154.4	3710.1
47.5°	3685.7	3708.1	3522.1	2991.6	2871.7	2959.8	3113.1	3173.3	3107.2	3208.7	3820.2
50°	3772.2	3778.9	3572.0	3094.7	3104.5	3306.2	3454.9	3493.8	3267.7	3286.6	3915.7
52.5°	3862.2	3853.6	3658.2	3224.4	3356.2	3635.0	3743.1	3783.6	3421.4	3382.5	4054.9
55°	4064.0	4072.2	3851.2	3388.0	3610.6	3957.8	4100.1	4061.2	3591.7	3559.1	4231.9
57.5°	4307.8	4300.7	4122.9	3644.0	3869.7	4258.2	4364.4	4301.9	3819.0	3801.7	4411.2
60°	4402.5	4412.0	4350.2	3919.3	4125.3	4521.3	4629.8	4532.7	4091.5	4083.6	4546.4
62.5°	4307.4	4360.4	4402.1	4164.2	4343.1	4714.7	4822.5	4711.6	4375.8	4432.8	4641.2
65°	4117.8	4129.2	4271.2	4371.9	4448.1	4746.6	4802.8	4743.8	4613.3	4750.9	4636.9
67.5°	3871.7	3881.5	4047.8	4439.9	4312.9	4384.8	4424.2	4406.8	4539.8	4859.8	4423.4
70°	3637.3	3629.4	3805.2	4266.5	3754.5	3645.2	3677.8	3623.5	3917.3	4593.6	4004.6
72.5°	3181.2	3209.5	3398.2	3784.4	2972.8	2795.0	2866.2	2725.8	3012.9	3934.2	3250.4
75°	2491.9	2498.5	2813.5	3176.1	2242.6	1962.2	2058.5	1999.9	2307.8	3281.8	2244.5
77.5°	1725.5	1710.5	2049.1	2425.8	1599.2	1436.4	1438.0	1410.1	1611.4	2416.4	1524.9
80°	1095.9	1073.1	1282.7	1498.6	1099.1	1175.7	1137.2	1136.0	1049.1	1490.7	922.1
82.5°	592.2	617.4	810.4	939.4	788.4	908.7	832.8	808.5	720.0	933.1	589.8
85°	269.8	293.3	432.2	639.0	598.9	605.6	404.6	477.4	595.7	757.7	315.0
87.5°	26.3	33.8	89.3	301.6	204.5	161.2	60.2	116.0	149.8	269.4	25.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8
2.5°	2036.1	2015.7	1946.1	1888.6	1827.7	1781.3	1720.7	1680.2	1652.3	1610.2	1605.1
5°	1942.5	1892.6	1771.5	1648.0	1541.4	1461.2	1379.8	1305.1	1261.1	1247.3	1229.6
7.5°	1784.8	1700.7	1545.0	1403.4	1281.1	1161.6	1069.6	1004.3	960.6	935.1	904.4
10°	1655.1	1557.6	1368.0	1194.6	1093.9	1019.6	938.6	868.6	814.8	768.8	743.6
12.5°	1567.8	1457.7	1244.6	1103.8	1025.9	946.9	852.1	773.5	694.0	641.7	619.3
15°	1541.4	1425.0	1206.4	1058.6	946.9	843.5	737.3	634.7	556.0	506.5	490.0
17.5°	1605.9	1465.1	1206.0	998.4	854.1	730.6	594.6	498.2	417.6	380.6	368.8
20°	1726.2	1542.2	1209.6	939.0	753.4	579.6	432.5	353.5	315.0	299.2	293.3
22.5°	1894.2	1659.8	1220.2	880.4	643.3	445.1	324.0	283.9	270.1	267.4	266.2
25°	2101.0	1805.3	1256.0	827.7	550.5	339.7	270.9	252.8	245.0	242.2	241.8
27.5°	2291.3	1993.2	1299.2	782.5	460.9	293.0	245.0	229.6	221.8	221.4	222.2
30°	2463.1	2150.5	1335.4	731.8	392.8	260.3	228.1	212.7	205.3	204.9	207.2
32.5°	2611.8	2279.9	1362.1	681.8	355.1	240.3	212.7	196.2	189.9	188.7	189.9
35°	2770.6	2408.9	1349.9	642.9	333.5	223.7	201.3	185.2	177.7	174.2	174.2
37.5°	2951.9	2541.8	1329.1	610.7	323.6	210.0	191.5	175.8	168.3	164.8	164.4
40°	3149.7	2674.7	1300.4	582.0	313.8	201.7	184.8	168.3	159.3	155.7	154.9
42.5°	3324.3	2788.3	1276.8	563.1	297.7	203.3	178.9	162.8	151.4	146.7	146.3
45°	3476.1	2902.8	1272.5	552.1	284.3	200.9	177.3	158.5	145.1	140.0	139.2
47.5°	3594.8	3021.9	1297.2	545.8	269.8	188.4	187.6	155.7	139.6	134.1	133.3
50°	3739.5	3191.0	1353.9	532.8	256.4	176.6	198.2	155.3	135.3	128.2	126.2
52.5°	3932.2	3411.2	1430.5	509.6	237.1	165.5	189.1	155.3	130.2	123.1	120.7
55°	4223.6	3692.0	1505.7	477.0	210.0	151.0	170.7	150.6	122.7	116.4	114.8
57.5°	4416.7	3897.2	1553.6	431.8	176.2	140.4	147.1	143.1	115.2	108.5	108.5
60°	4426.5	3952.3	1530.8	374.7	154.9	130.5	127.8	144.3	108.5	101.5	100.7
62.5°	4313.3	3817.4	1412.1	323.6	143.5	119.9	115.6	126.6	101.8	94.8	93.6
65°	4136.3	3473.3	1206.0	299.2	137.2	110.5	104.2	103.8	94.8	88.1	86.5
67.5°	3811.1	3035.3	990.9	285.1	134.1	99.9	94.0	92.0	86.5	81.0	80.2
70°	3331.8	2542.2	794.7	279.2	132.5	88.9	84.1	81.8	77.1	72.7	72.4
72.5°	2592.1	2062.1	655.9	275.3	131.7	78.6	73.5	70.4	67.6	63.7	63.7
75°	1861.9	1517.1	500.6	248.1	121.9	67.6	62.1	60.2	56.2	53.1	53.9
77.5°	1173.8	1021.6	329.5	182.5	94.4	54.3	49.5	48.4	45.2	40.9	43.6
80°	792.7	718.4	192.3	114.8	59.4	39.7	38.1	37.7	34.2	29.5	29.9
82.5°	539.5	529.3	99.9	65.3	34.2	23.2	22.4	23.2	19.3	15.7	15.7
85°	210.8	287.8	47.2	25.6	11.0	3.5	5.1	5.5	3.1	1.6	2.0
87.5°	3.9	29.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8
2.5°	1597.3	1593.7	1599.6	1574.5	1579.6	1589.0	1593.7	1596.5	1635.4	1626.4	1651.1
5°	1246.1	1242.6	1265.4	1268.5	1280.3	1278.0	1289.4	1292.1	1306.3	1311.4	1346.0
7.5°	906.4	921.7	947.7	961.0	981.1	987.4	981.5	996.0	966.5	987.8	994.1
10°	728.2	709.8	698.8	729.4	733.4	762.5	750.7	741.2	758.5	759.3	775.8
12.5°	606.3	566.6	540.3	548.9	558.4	571.0	572.9	591.8	604.4	616.2	626.0
15°	475.4	461.6	437.7	425.9	439.2	444.3	456.5	472.3	485.6	489.2	502.5
17.5°	364.9	367.3	363.3	356.3	364.5	368.4	369.2	369.6	373.2	370.8	390.5
20°	293.7	302.0	311.8	313.4	316.2	318.1	314.6	301.2	301.6	309.9	316.2
22.5°	265.8	267.4	278.4	281.9	290.6	287.1	276.8	270.5	269.8	271.7	274.9
25°	243.8	246.2	254.0	259.5	266.2	259.9	252.4	246.6	245.8	247.7	250.9
27.5°	224.1	227.7	234.8	240.3	246.6	240.7	233.6	228.5	228.1	227.7	229.6
30°	208.4	212.3	217.5	223.7	228.1	223.0	216.3	213.5	213.1	212.3	213.1
32.5°	192.7	199.0	204.1	207.2	211.6	207.6	202.5	200.9	198.2	195.8	194.6
35°	175.0	181.7	189.5	193.5	197.8	193.9	190.3	183.6	178.9	178.5	179.3
37.5°	164.8	167.5	173.8	180.5	184.8	182.8	176.2	169.5	168.3	168.3	169.1
40°	155.7	156.9	159.6	168.3	176.2	170.3	162.0	160.0	160.0	159.6	160.0
42.5°	146.7	147.9	147.9	154.5	167.1	157.7	151.4	151.4	151.4	151.8	153.0
45°	138.4	138.8	138.4	143.1	154.9	147.1	142.7	143.9	144.7	145.5	146.3
47.5°	131.3	131.7	131.3	135.3	141.2	138.0	135.7	137.2	138.8	140.0	140.8
50°	125.0	124.7	125.4	127.8	130.5	131.3	129.8	132.1	132.9	134.5	136.4
52.5°	119.5	119.1	119.9	121.1	125.0	125.0	125.0	127.0	128.6	130.2	132.9
55°	113.2	113.6	114.8	116.4	121.5	120.7	121.1	122.7	124.3	126.6	128.2
57.5°	107.3	108.1	109.7	112.1	117.2	116.8	117.2	118.0	119.9	121.1	122.7
60°	100.7	102.2	104.2	105.8	110.9	110.5	112.5	114.0	115.2	115.2	116.0
62.5°	94.0	96.3	98.3	99.5	105.0	105.4	108.1	109.3	110.1	109.3	110.5
65°	87.3	90.8	91.6	93.2	98.7	99.1	102.2	105.0	104.2	103.4	105.4
67.5°	80.6	84.9	84.5	86.5	92.0	92.8	95.6	100.3	98.7	97.9	99.5
70°	73.1	76.3	76.7	77.9	85.3	84.1	88.5	92.8	91.6	92.0	92.0
72.5°	64.9	67.6	67.6	70.0	77.9	75.9	79.4	84.1	84.1	83.8	83.8
75°	55.1	56.6	58.2	61.7	70.0	67.6	70.0	74.3	75.1	74.3	74.3
77.5°	44.4	46.8	47.6	52.3	58.2	57.8	60.2	62.1	63.7	62.9	62.9
80°	31.5	33.8	37.0	42.1	45.6	46.8	48.0	49.5	50.3	50.3	51.1
82.5°	17.7	21.2	24.0	29.1	30.7	36.6	36.2	37.4	36.2	31.9	35.4
85°	3.9	7.5	10.6	13.4	15.3	21.2	22.4	25.2	20.8	19.3	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	6.3	8.7	7.5	6.3	6.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8	1915.8
2.5°	1672.0	1706.2	1747.5	1818.7	1868.6	1922.5	1976.7	2034.5	2049.9	2065.6
5°	1355.4	1422.7	1459.3	1554.8	1655.1	1782.5	1886.7	2000.7	2048.3	2059.3
7.5°	1026.7	1072.3	1168.3	1265.0	1389.3	1523.0	1682.6	1860.3	1915.8	1939.0
10°	814.0	876.1	960.3	1064.1	1173.0	1316.9	1497.0	1704.6	1783.3	1796.2
12.5°	692.9	762.1	853.7	963.4	1066.4	1174.9	1356.6	1570.9	1655.1	1683.0
15°	554.1	637.8	743.6	859.2	971.3	1090.0	1274.0	1515.9	1613.0	1645.6
17.5°	435.3	502.9	617.4	742.8	875.7	1025.9	1256.7	1542.2	1661.8	1692.0
20°	333.1	381.4	477.8	610.3	766.0	962.6	1261.1	1641.7	1784.8	1826.1
22.5°	287.8	312.6	371.2	497.4	671.6	907.6	1278.8	1778.2	1950.8	2019.6
25°	260.7	273.7	306.7	389.3	581.6	854.1	1319.3	1961.8	2182.8	2228.4
27.5°	237.5	246.9	267.4	326.8	499.8	804.5	1366.4	2165.5	2399.4	2467.5
30°	215.5	228.1	247.3	290.2	447.5	759.3	1425.8	2330.6	2581.9	2645.2
32.5°	198.6	211.2	228.9	264.6	403.1	711.7	1461.2	2475.7	2730.9	2784.8
35°	184.8	195.4	213.9	244.2	369.2	675.6	1454.1	2590.9	2875.2	2930.3
37.5°	175.0	184.0	202.5	224.9	343.7	637.8	1450.6	2743.1	3051.0	3114.7
40°	165.9	175.4	192.3	212.3	318.1	593.4	1452.6	2894.1	3238.2	3301.9
42.5°	158.9	169.5	183.2	208.8	291.8	557.6	1452.6	3025.5	3401.0	3462.3
45°	153.0	164.4	177.7	208.4	270.9	530.5	1442.7	3138.3	3530.7	3583.0
47.5°	147.9	160.4	179.7	201.3	265.8	510.8	1434.1	3228.8	3636.5	3685.7
50°	144.3	159.3	191.1	193.1	267.4	504.9	1475.8	3342.8	3729.7	3772.2
52.5°	141.6	159.6	190.7	180.9	264.6	508.8	1562.7	3520.9	3859.1	3862.2
55°	136.1	159.3	180.9	167.1	253.2	515.5	1674.3	3779.7	4061.6	4064.0
57.5°	130.5	154.9	167.9	155.3	230.0	515.5	1808.8	4024.6	4305.8	4307.8
60°	125.0	161.2	147.5	145.1	199.8	506.1	1950.8	4132.4	4382.5	4402.5
62.5°	119.5	162.4	131.7	136.1	177.7	483.3	2056.6	4013.2	4278.7	4307.4
65°	113.2	130.9	121.5	126.6	166.3	445.1	2023.1	3795.0	4083.6	4117.8
67.5°	105.8	110.9	110.5	116.8	162.4	388.9	1847.0	3519.0	3873.6	3871.7
70°	96.7	99.5	100.7	107.3	154.9	345.2	1539.1	3160.7	3593.3	3637.3
72.5°	87.3	89.7	90.8	96.7	147.5	320.5	1194.6	2667.2	3112.4	3181.2
75°	77.1	78.6	80.2	85.3	139.6	283.9	850.9	2036.1	2383.7	2491.9
77.5°	66.5	66.5	68.4	73.5	117.6	234.4	571.0	1428.2	1615.0	1725.5
80°	53.9	54.3	53.5	59.0	86.5	160.4	324.4	954.0	1074.7	1095.9
82.5°	41.3	40.1	40.5	43.3	64.5	109.3	173.0	592.6	604.0	592.2
85°	26.0	26.0	25.2	28.3	41.3	57.0	94.4	362.9	283.5	269.8
87.5°	10.6	8.7	9.8	11.4	19.7	23.2	37.0	74.7	28.7	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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