

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: P527013

Luminaire Tested: **GALN-SA2A-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4630 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

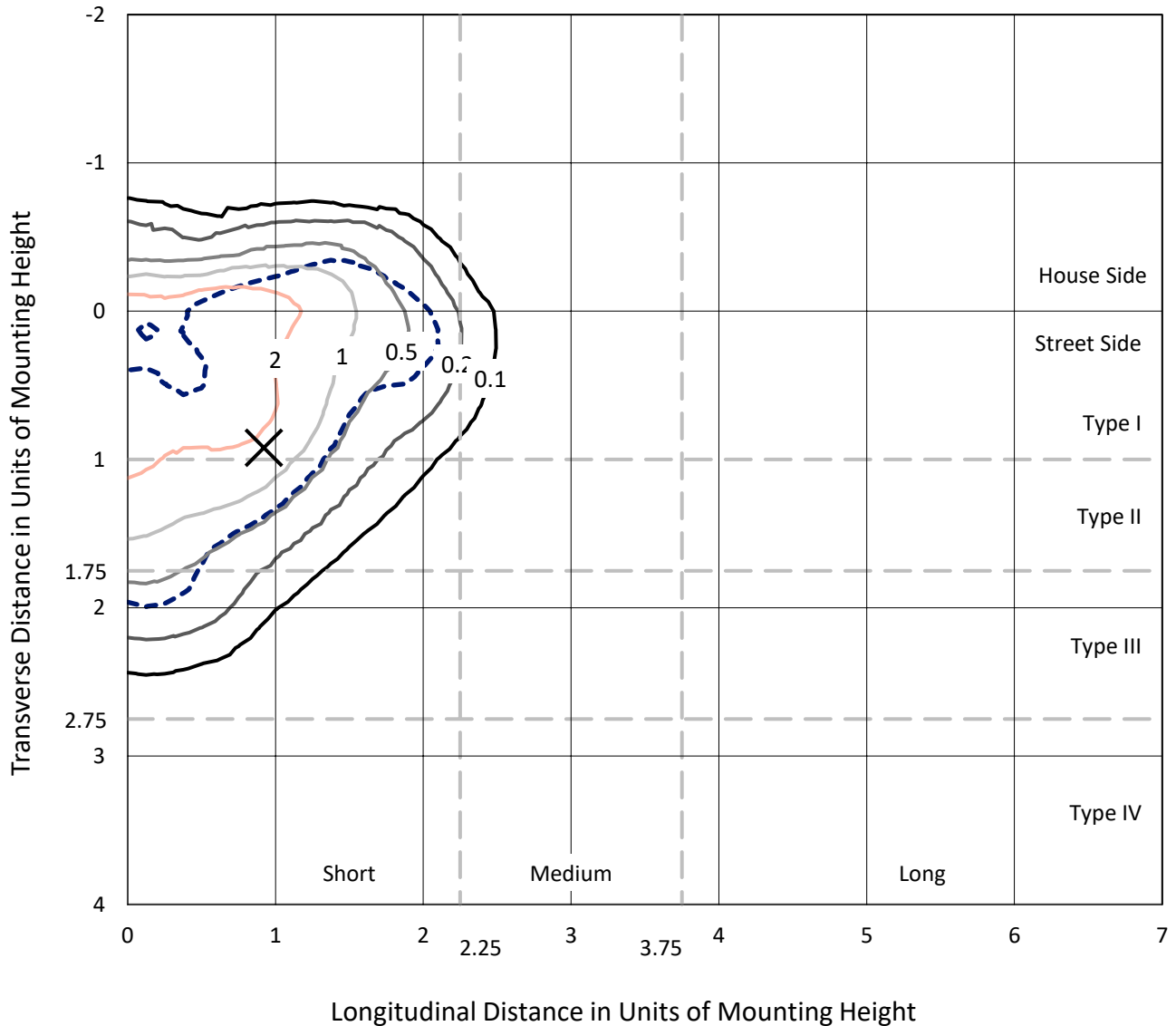
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

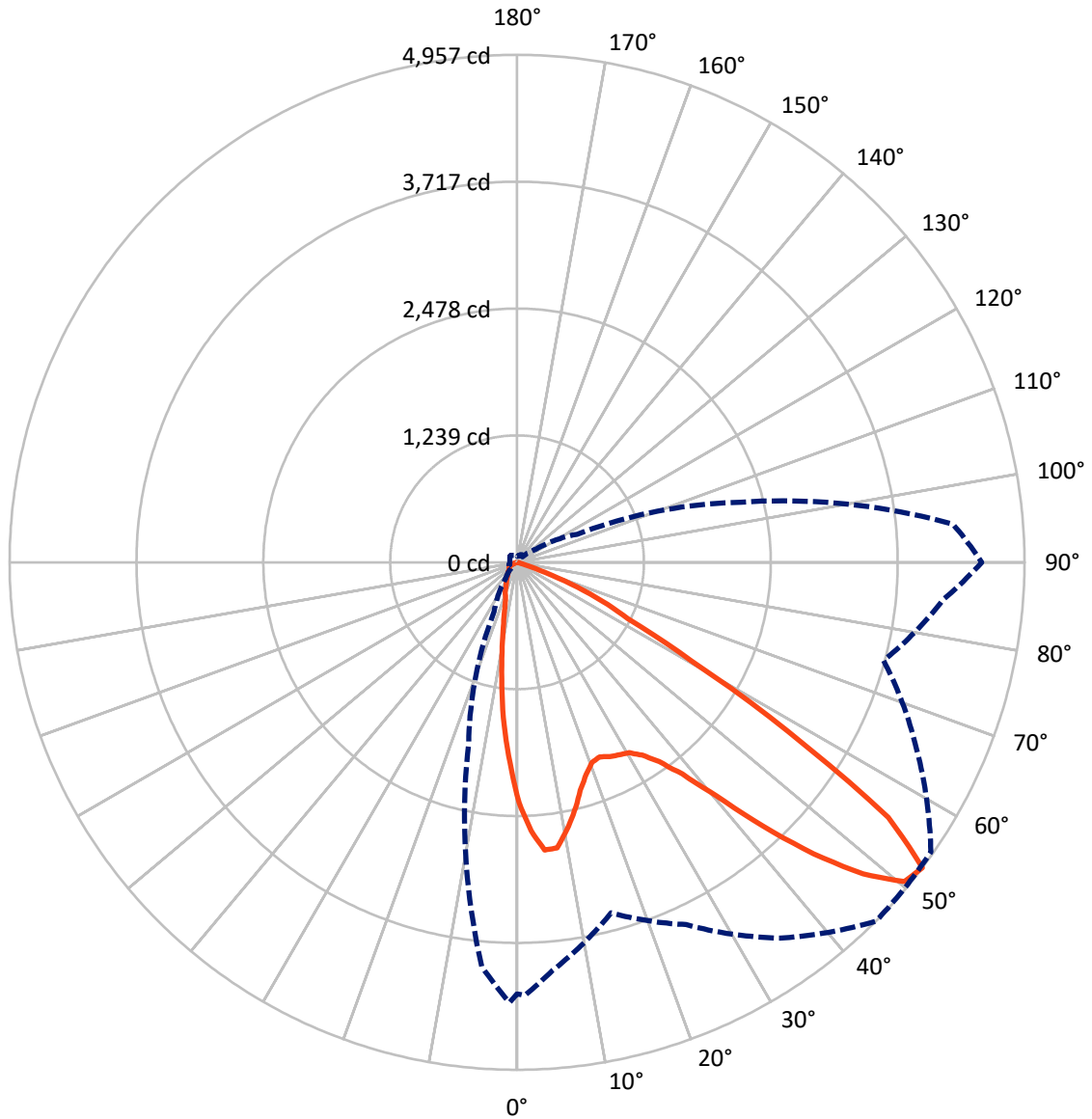
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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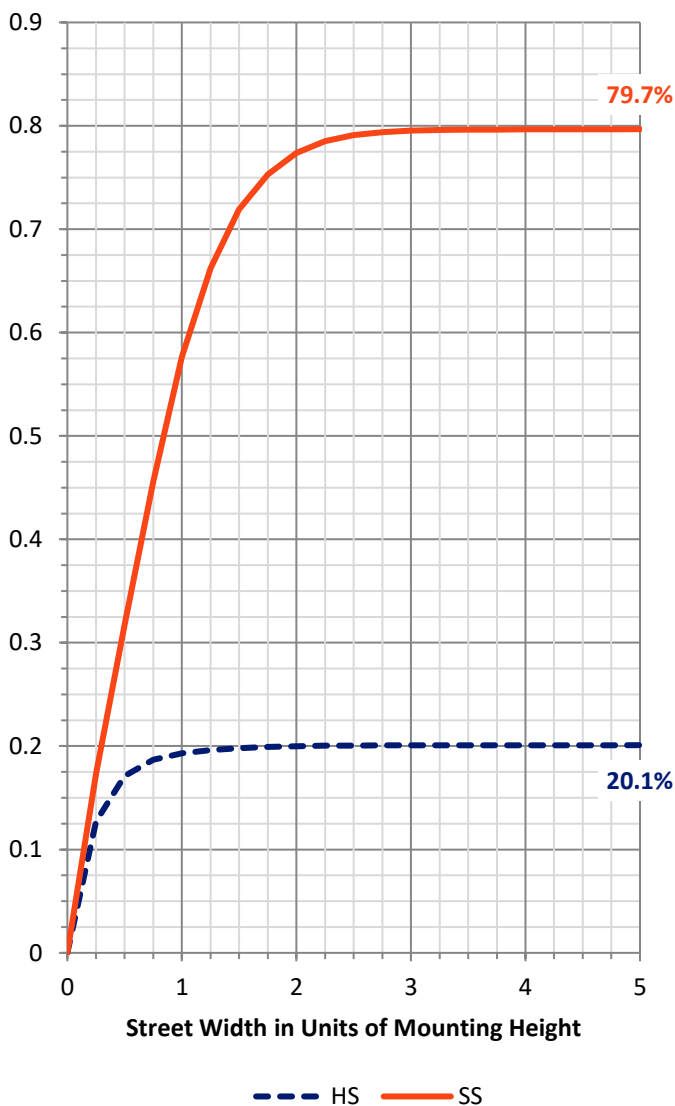
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	939.7	0.0	939.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3690.3	0.0	3690.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	4630.0	0.0	4630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.7
10°-20°	337.8	7.3
20°-30°	514.1	11.1
30°-40°	768.3	16.6
40°-50°	1094.2	23.6
50°-60°	1176.2	25.4
60°-70°	521.2	11.3
70°-80°	42.2	0.9
80°-90°	4.9	0.1
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°	4630.0	100.0
0°-180°	4630.0	100.0

Coefficient of Utilization

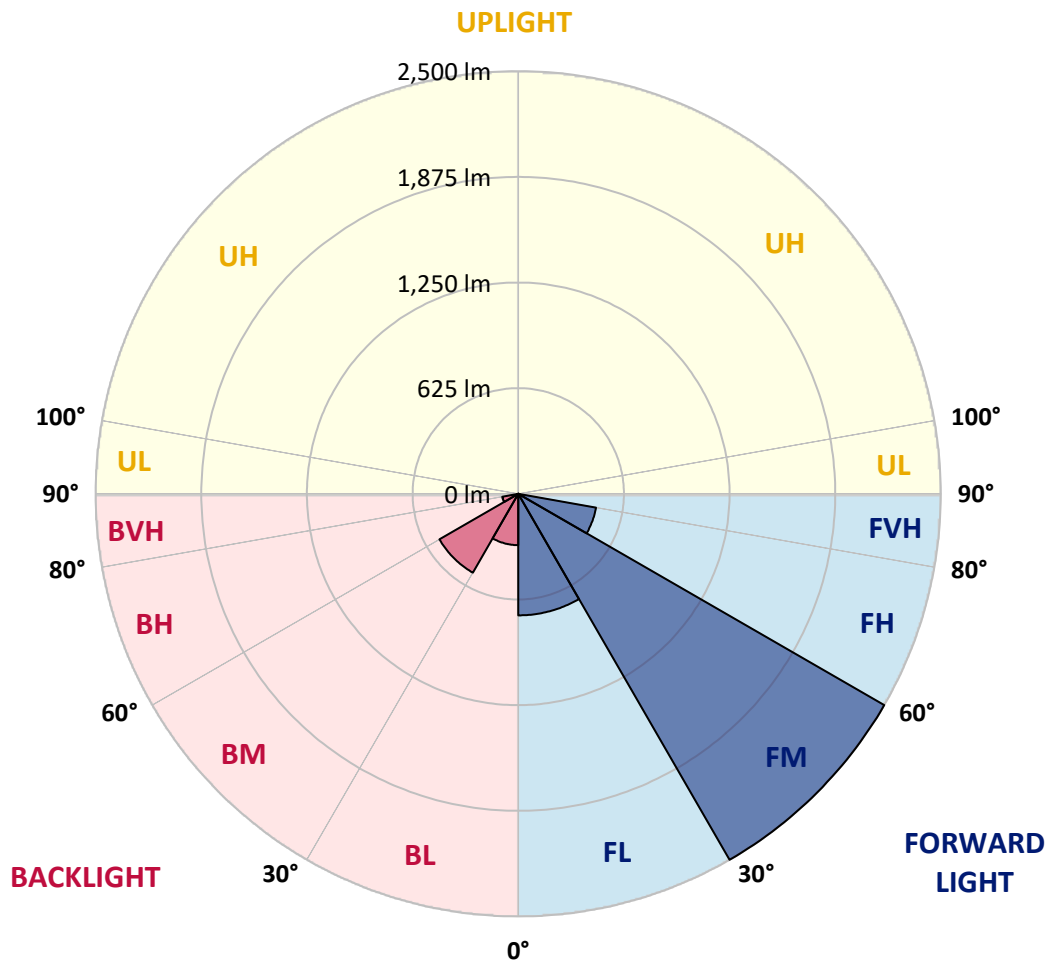


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.1	15.5			
FM (30°-60°)	2500.3	54.0			
FH (60°-80°)	467.2	10.1			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	303.9	6.6	B1/500		
BM (30°-60°)	538.3	11.6	B1/1000		
BH (60°-80°)	96.1	2.1	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6
2.5°	2484.2	2491.5	2531.6	2581.7	2608.1	2668.2	2626.3	2637.2	2614.4	2534.3	2471.5
5°	2408.6	2407.7	2458.7	2582.6	2700.0	2819.3	2823.0	2759.2	2647.2	2524.3	2348.5
7.5°	2181.0	2216.5	2269.3	2466.9	2684.6	2773.8	2816.6	2741.9	2569.8	2394.1	2203.7
10°	2008.9	2027.1	2116.3	2354.9	2514.3	2633.6	2660.0	2617.2	2485.1	2265.7	2052.6
12.5°	1909.6	1918.7	2023.4	2223.8	2392.2	2480.6	2493.3	2513.4	2418.7	2212.9	1957.0
15°	1910.5	1917.8	2059.0	2226.5	2293.0	2269.3	2311.2	2310.3	2351.3	2202.8	2037.1
17.5°	2048.0	2056.2	2183.7	2266.6	2237.4	2181.9	2179.2	2221.0	2307.6	2327.6	2158.2
20°	2284.8	2303.9	2397.7	2393.2	2229.2	2117.2	2086.3	2118.1	2319.4	2433.2	2402.3
22.5°	2603.5	2629.9	2695.5	2569.8	2266.6	2073.5	2063.5	2125.4	2397.7	2669.1	2679.1
25°	2973.2	3017.9	3049.7	2888.5	2399.5	2149.1	2101.8	2208.3	2503.3	2925.0	3031.5
27.5°	3218.2	3264.6	3257.4	3027.0	2488.8	2169.1	2129.1	2228.3	2595.3	2986.0	3215.5
30°	3409.4	3437.7	3488.7	3101.6	2578.0	2225.6	2157.3	2313.0	2625.4	3091.6	3437.7
32.5°	3632.5	3651.7	3655.3	3233.7	2715.5	2296.6	2244.7	2418.7	2758.3	3192.7	3634.4
35°	3857.5	3885.7	3826.5	3396.7	2800.2	2428.7	2390.4	2601.7	2864.9	3297.4	3851.1
37.5°	4101.5	4116.1	3979.5	3464.1	2921.3	2643.6	2622.6	2799.3	3049.7	3486.8	4091.5
40°	4306.4	4320.1	4142.5	3546.9	3048.8	2944.1	2997.8	3176.3	3301.1	3609.8	4211.7
42.5°	4420.2	4452.1	4197.1	3501.4	3304.7	3284.7	3523.3	3586.1	3592.5	3644.4	4319.2
45°	4451.2	4436.6	4107.0	3538.7	3528.7	3844.7	4061.4	4144.3	3882.1	3708.1	4346.5
47.5°	4308.2	4327.4	3974.0	3506.0	3822.9	4269.1	4549.5	4703.4	4097.9	3652.6	4279.1
50°	4192.6	4168.0	3931.2	3482.3	3902.1	4469.4	4902.0	4936.6	4296.4	3720.9	4205.3
52.5°	4215.3	4230.8	3999.5	3545.1	3903.9	4481.3	4956.6	4932.9	4302.8	3705.4	4178.9
55°	4263.6	4195.3	3970.4	3406.7	3642.6	4150.7	4399.3	4362.9	3971.3	3540.6	4114.3
57.5°	3679.0	3784.6	3650.7	3041.5	2989.6	3127.1	3122.6	3234.6	2962.3	3047.0	3745.5
60°	2986.0	3004.2	3054.3	2601.7	2069.0	2021.6	1956.1	1885.0	1993.4	2605.3	3406.7
62.5°	2626.3	2604.4	2782.9	2366.7	1460.7	1223.0	1212.1	1255.8	1538.1	2485.1	3195.4
65°	1908.7	1936.0	2065.3	1836.8	1096.4	933.4	917.0	1046.3	1244.8	1991.6	2438.7
67.5°	1165.6	1218.4	1230.3	1132.8	744.0	591.0	567.3	684.8	898.8	1288.6	1429.7
70°	538.2	601.9	662.0	618.3	430.7	243.1	229.5	287.8	453.5	741.3	758.6
72.5°	163.0	163.9	229.5	239.5	139.3	54.6	48.3	63.7	153.9	245.0	257.7
75°	11.8	12.7	31.0	35.5	26.4	13.7	14.6	17.3	32.8	54.6	41.0
77.5°	0.9	0.9	0.9	4.6	8.2	9.1	11.8	13.7	17.3	20.0	18.2
80°	0.9	0.0	0.9	3.6	6.4	9.1	10.9	12.7	13.7	15.5	13.7
82.5°	0.0	0.0	0.0	2.7	6.4	9.1	10.0	13.7	15.5	18.2	15.5
85°	0.0	0.0	0.0	2.7	6.4	10.0	9.1	4.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6
2.5°	2482.4	2446.9	2365.8	2324.9	2228.3	2214.7	2120.0	2104.5	2072.6	2055.3	2013.4
5°	2271.1	2228.3	2096.3	1985.2	1855.9	1765.7	1696.5	1633.7	1597.3	1563.6	1579.0
7.5°	2099.0	1974.3	1827.7	1641.9	1492.5	1396.0	1290.4	1203.9	1152.9	1118.3	1126.5
10°	1918.7	1837.7	1633.7	1425.1	1244.8	1176.5	1093.7	1027.2	955.3	893.3	864.2
12.5°	1862.3	1742.1	1486.2	1274.0	1137.4	1070.9	976.2	899.7	807.7	732.2	705.7
15°	1872.3	1756.6	1446.1	1219.3	1058.2	943.4	830.5	735.8	634.7	581.9	554.6
17.5°	2035.3	1834.9	1472.5	1162.0	948.0	788.6	649.3	529.1	453.5	398.9	387.0
20°	2235.6	2004.3	1529.0	1120.1	857.8	627.4	474.4	370.6	307.8	298.7	296.0
22.5°	2528.8	2281.1	1650.1	1091.9	747.6	489.0	325.1	269.5	252.2	250.4	251.3
25°	2938.6	2628.1	1782.1	1068.2	664.8	377.0	265.9	228.6	223.1	220.4	224.9
27.5°	3116.2	2837.5	1852.2	1017.2	589.2	339.7	262.3	226.7	211.3	206.7	209.4
30°	3335.7	2976.9	1962.4	929.8	478.1	279.6	245.0	246.8	239.5	216.7	209.4
32.5°	3627.1	3150.8	2018.0	867.8	427.1	231.3	179.4	164.8	183.9	187.6	194.0
35°	3813.8	3327.5	2046.2	831.4	400.7	197.6	152.1	138.4	133.9	134.8	138.4
37.5°	4160.7	3566.1	2081.7	793.2	380.6	172.1	137.5	124.8	118.4	118.4	122.0
40°	4368.3	3755.5	2130.0	772.2	360.6	156.6	124.8	113.8	108.4	108.4	110.2
42.5°	4420.2	3849.3	2113.6	764.9	337.8	153.0	113.8	105.6	99.3	98.3	97.4
45°	4513.1	3992.2	2116.3	756.7	314.2	139.3	107.5	98.3	89.2	88.3	87.4
47.5°	4615.1	4095.1	2121.8	724.9	291.4	116.6	112.0	91.1	80.1	78.3	78.3
50°	4527.7	4177.1	2169.1	693.0	262.3	94.7	110.2	85.6	71.0	68.3	69.2
52.5°	4538.6	4273.6	2269.3	648.4	225.8	75.6	89.2	81.0	64.7	60.1	61.0
55°	4363.8	4171.6	2283.0	601.0	176.7	58.3	68.3	71.0	54.6	52.8	52.8
57.5°	3756.4	3532.4	2014.3	487.2	116.6	48.3	49.2	61.9	47.4	45.5	46.4
60°	3214.6	2835.7	1620.9	321.5	72.9	38.2	35.5	62.8	41.9	41.0	43.7
62.5°	2930.4	2330.3	1229.4	199.4	50.1	29.1	24.6	51.0	36.4	36.4	40.1
65°	2117.2	1565.4	714.9	104.7	35.5	22.8	18.2	29.1	30.1	31.0	32.8
67.5°	1311.3	790.4	301.4	51.0	23.7	15.5	11.8	18.2	20.0	20.0	21.9
70°	647.5	315.1	100.2	29.1	18.2	12.7	8.2	10.0	10.0	9.1	10.0
72.5°	200.3	94.7	25.5	18.2	12.7	8.2	4.6	3.6	1.8	0.0	0.9
75°	22.8	18.2	16.4	12.7	8.2	3.6	0.9	0.0	0.0	0.0	0.0
77.5°	13.7	15.5	15.5	12.7	8.2	2.7	0.0	0.0	0.0	0.0	0.0
80°	10.9	11.8	12.7	11.8	7.3	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	15.5	17.3	15.5	10.0	4.6	1.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.7	0.9	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6
2.5°	1996.1	1976.1	2004.3	1962.4	1961.5	1962.4	1950.6	1939.7	1957.0	2003.4	2008.0
5°	1523.5	1566.3	1580.0	1624.6	1600.0	1563.6	1570.9	1546.3	1606.4	1632.8	1611.8
7.5°	1109.2	1106.4	1198.4	1203.9	1215.7	1216.6	1214.8	1166.5	1117.4	1128.3	1161.1
10°	860.6	814.1	858.7	854.2	883.3	875.1	887.0	835.1	852.4	852.4	873.3
12.5°	701.2	652.0	643.8	632.0	643.8	648.4	652.9	642.9	672.1	685.7	700.3
15°	535.5	508.1	500.9	478.1	481.7	494.5	505.4	510.0	500.9	521.8	523.6
17.5°	388.8	387.9	392.5	391.6	387.9	385.2	384.3	372.5	368.8	370.6	377.9
20°	295.0	302.3	317.8	333.3	341.5	331.5	317.8	297.8	289.6	291.4	292.3
22.5°	252.2	263.2	284.1	301.4	309.6	291.4	266.8	249.5	245.9	245.0	244.1
25°	228.6	241.3	256.8	262.3	261.4	250.4	232.2	224.9	223.1	221.3	213.1
27.5°	215.8	220.4	223.1	229.5	232.2	224.9	220.4	209.4	207.6	207.6	202.2
30°	208.5	205.8	209.4	204.9	208.5	203.1	204.0	204.0	199.4	201.3	201.3
32.5°	194.0	194.9	194.9	185.8	188.5	182.1	188.5	194.0	194.9	195.8	203.1
35°	142.1	158.5	166.6	166.6	169.4	164.8	163.9	157.5	149.3	141.1	137.5
37.5°	124.8	131.1	142.1	148.4	153.0	149.3	141.1	131.1	126.6	122.9	119.3
40°	111.1	116.6	123.8	131.1	140.2	135.7	122.9	118.4	112.9	112.9	109.3
42.5°	100.2	102.9	107.5	118.4	128.4	119.3	110.2	106.5	103.8	102.9	102.0
45°	90.2	91.1	95.6	104.7	116.6	107.5	98.3	93.8	94.7	95.6	94.7
47.5°	81.0	82.9	85.6	96.5	103.8	99.3	89.2	86.5	86.5	86.5	87.4
50°	70.1	74.7	80.1	89.2	94.7	92.0	83.8	80.1	78.3	78.3	79.2
52.5°	62.8	66.5	73.8	84.7	92.0	87.4	79.2	73.8	70.1	69.2	71.0
55°	54.6	61.0	72.9	81.0	91.1	86.5	77.4	71.0	64.7	63.7	63.7
57.5°	49.2	59.2	70.1	80.1	88.3	84.7	77.4	69.2	61.0	60.1	60.1
60°	46.4	57.4	68.3	77.4	88.3	82.9	76.5	67.4	58.3	58.3	57.4
62.5°	43.7	53.7	64.7	73.8	84.7	80.1	73.8	64.7	55.5	55.5	53.7
65°	36.4	46.4	53.7	61.9	73.8	69.2	62.8	56.5	49.2	47.4	48.3
67.5°	25.5	31.9	39.2	47.4	54.6	52.8	50.1	45.5	39.2	38.2	37.3
70°	12.7	17.3	23.7	31.9	38.2	36.4	34.6	31.0	27.3	26.4	26.4
72.5°	1.8	5.5	10.0	14.6	20.0	20.9	20.0	19.1	18.2	17.3	18.2
75°	0.0	0.0	0.0	3.6	8.2	10.0	11.8	13.7	13.7	11.8	14.6
77.5°	0.0	0.0	0.0	0.0	0.9	4.6	9.1	11.8	14.6	12.7	17.3
80°	0.0	0.0	0.0	0.0	0.9	5.5	9.1	12.7	14.6	12.7	18.2
82.5°	0.0	0.0	0.0	0.0	0.9	6.4	9.1	11.8	13.7	12.7	16.4
85°	0.0	0.0	0.0	0.0	2.7	5.5	3.6	1.8	0.9	0.9	2.7
87.5°	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6	2347.6
2.5°	2033.5	2098.1	2167.3	2193.7	2275.7	2337.6	2379.5	2469.7	2483.3	2484.2
5°	1633.7	1666.5	1784.9	1840.4	1962.4	2057.1	2158.2	2303.9	2401.4	2408.6
7.5°	1161.1	1252.1	1302.2	1447.0	1597.3	1745.7	1895.9	2065.3	2178.2	2181.0
10°	934.3	993.5	1082.7	1191.1	1317.7	1468.9	1669.2	1865.9	1980.6	2008.9
12.5°	752.2	856.0	958.0	1070.0	1166.5	1280.4	1496.2	1758.4	1853.1	1909.6
15°	579.2	673.9	794.1	925.2	1034.5	1186.6	1432.4	1732.0	1891.4	1910.5
17.5°	427.1	511.8	622.9	746.7	910.6	1126.5	1443.4	1865.9	2016.2	2048.0
20°	306.9	356.1	443.5	587.4	795.9	1056.3	1454.3	2001.6	2230.2	2284.8
22.5°	243.1	263.2	320.5	448.0	667.5	982.6	1531.7	2261.1	2524.3	2603.5
25°	211.3	222.2	249.5	353.3	586.5	975.3	1655.5	2572.6	2915.9	2973.2
27.5°	204.0	205.8	229.5	324.2	542.7	927.0	1702.9	2793.8	3159.9	3218.2
30°	214.9	244.1	245.9	274.1	461.7	831.4	1727.5	3007.8	3366.6	3409.4
32.5°	185.8	176.7	183.0	212.2	406.1	775.9	1773.9	3194.5	3602.5	3632.5
35°	129.3	135.7	150.3	183.9	355.1	717.6	1785.8	3400.3	3826.5	3857.5
37.5°	119.3	122.9	134.8	156.6	312.3	684.8	1769.4	3550.6	4058.7	4101.5
40°	111.1	115.7	122.0	142.1	280.5	648.4	1746.6	3686.3	4200.8	4306.4
42.5°	104.7	108.4	113.8	135.7	253.2	611.9	1714.7	3877.5	4328.3	4420.2
45°	97.4	102.9	109.3	132.0	237.7	587.4	1691.1	3865.7	4402.0	4451.2
47.5°	90.2	99.3	106.5	122.9	233.1	575.5	1701.1	3821.0	4341.9	4308.2
50°	82.9	94.7	107.5	102.0	222.2	551.8	1712.9	3882.1	4199.0	4192.6
52.5°	76.5	90.2	100.2	83.8	197.6	529.1	1827.7	3962.2	4300.0	4215.3
55°	67.4	81.0	80.1	67.4	160.3	511.8	1917.8	3964.0	4231.7	4263.6
57.5°	61.0	71.9	62.8	56.5	118.4	428.0	1771.2	3323.8	3622.5	3679.0
60°	56.5	70.1	47.4	44.6	77.4	308.7	1546.3	2574.4	2879.4	2986.0
62.5°	51.9	66.5	37.3	36.4	53.7	219.5	1271.3	2154.6	2481.5	2626.3
65°	45.5	47.4	30.1	28.2	38.2	118.4	774.0	1483.4	1855.0	1908.7
67.5°	37.3	36.4	24.6	22.8	25.5	57.4	341.5	743.1	1075.5	1165.6
70°	30.1	30.1	20.9	18.2	18.2	26.4	89.2	296.0	486.3	538.2
72.5°	21.9	22.8	16.4	14.6	13.7	12.7	14.6	59.2	127.5	163.0
75°	19.1	20.0	16.4	12.7	10.0	8.2	6.4	5.5	7.3	11.8
77.5°	20.9	20.9	17.3	11.8	9.1	6.4	3.6	1.8	1.8	0.9
80°	26.4	27.3	22.8	15.5	10.9	7.3	4.6	1.8	0.9	0.9
82.5°	28.2	31.0	25.5	19.1	13.7	8.2	4.6	0.9	0.0	0.0
85°	7.3	11.8	20.0	17.3	13.7	8.2	4.6	0.9	0.0	0.0
87.5°	0.0	0.9	2.7	2.7	3.6	3.6	2.7	0.9	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

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