

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: P527041

Luminaire Tested: **GALN-SA2A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

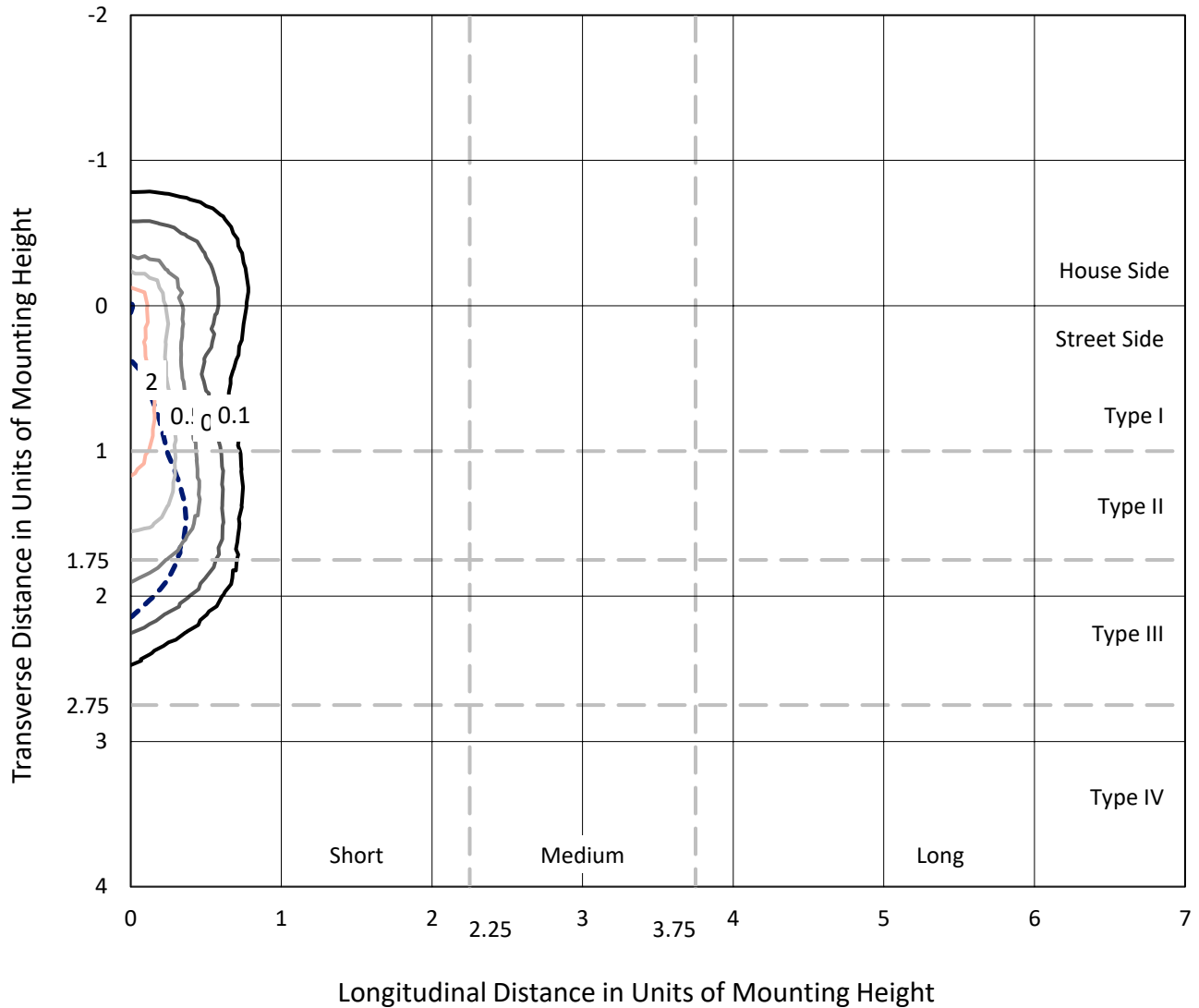
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

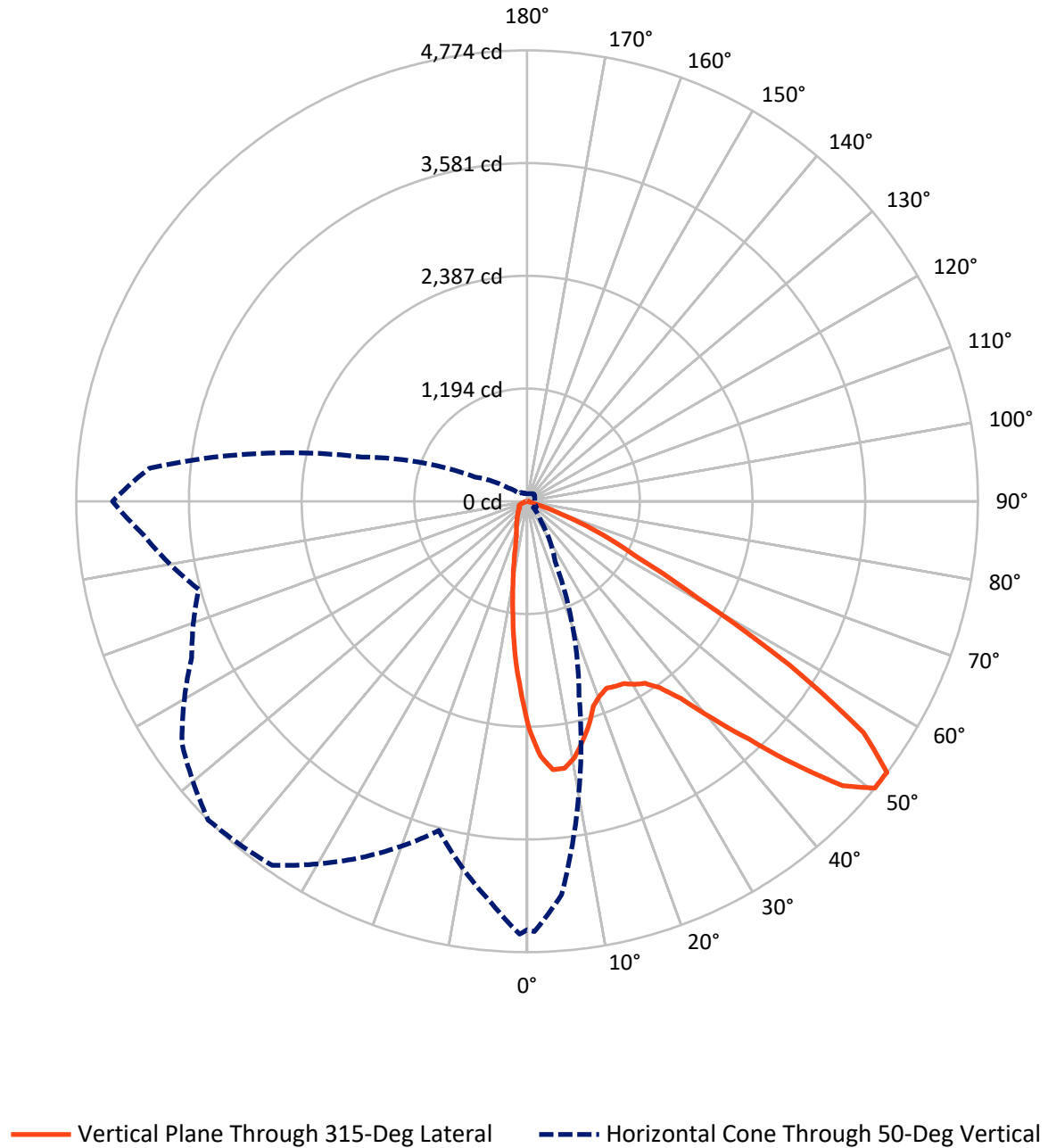
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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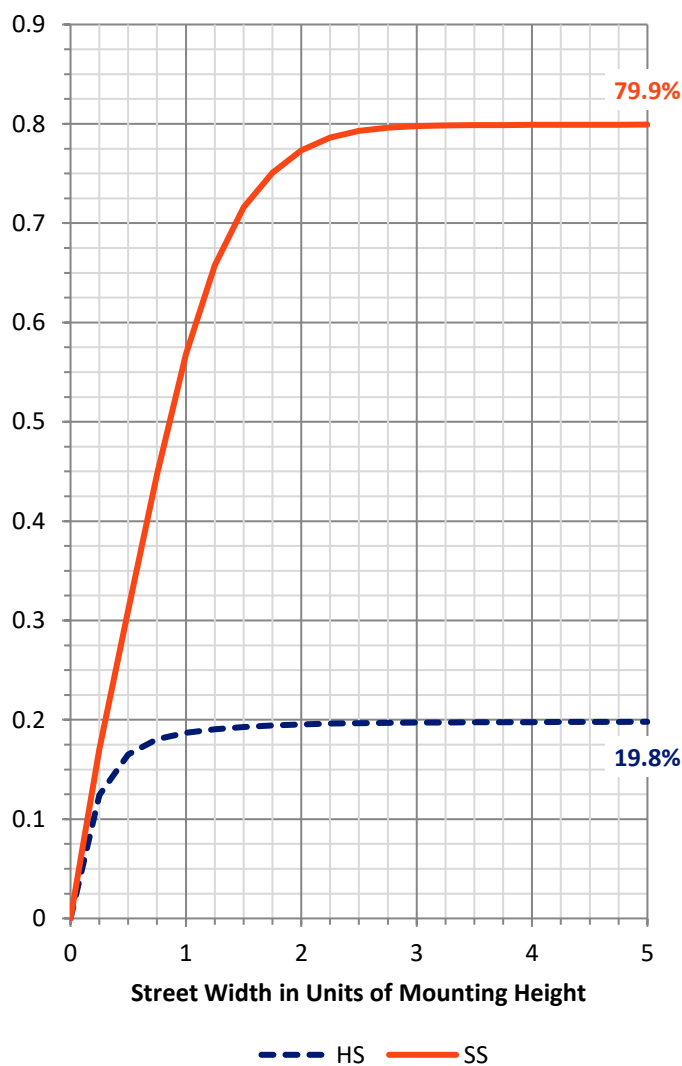
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.6	0.0	948.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3787.4	0.0	3787.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	4736.0	0.0	4736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	3.7
10°-20°	347.9	7.3
20°-30°	522.7	11.0
30°-40°	784.5	16.6
40°-50°	1102.6	23.3
50°-60°	1189.4	25.1
60°-70°	552.2	11.7
70°-80°	52.0	1.1
80°-90°	9.6	0.2
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°	4736.0	100.0
0°-180°	4736.0	100.0

Coefficient of Utilization



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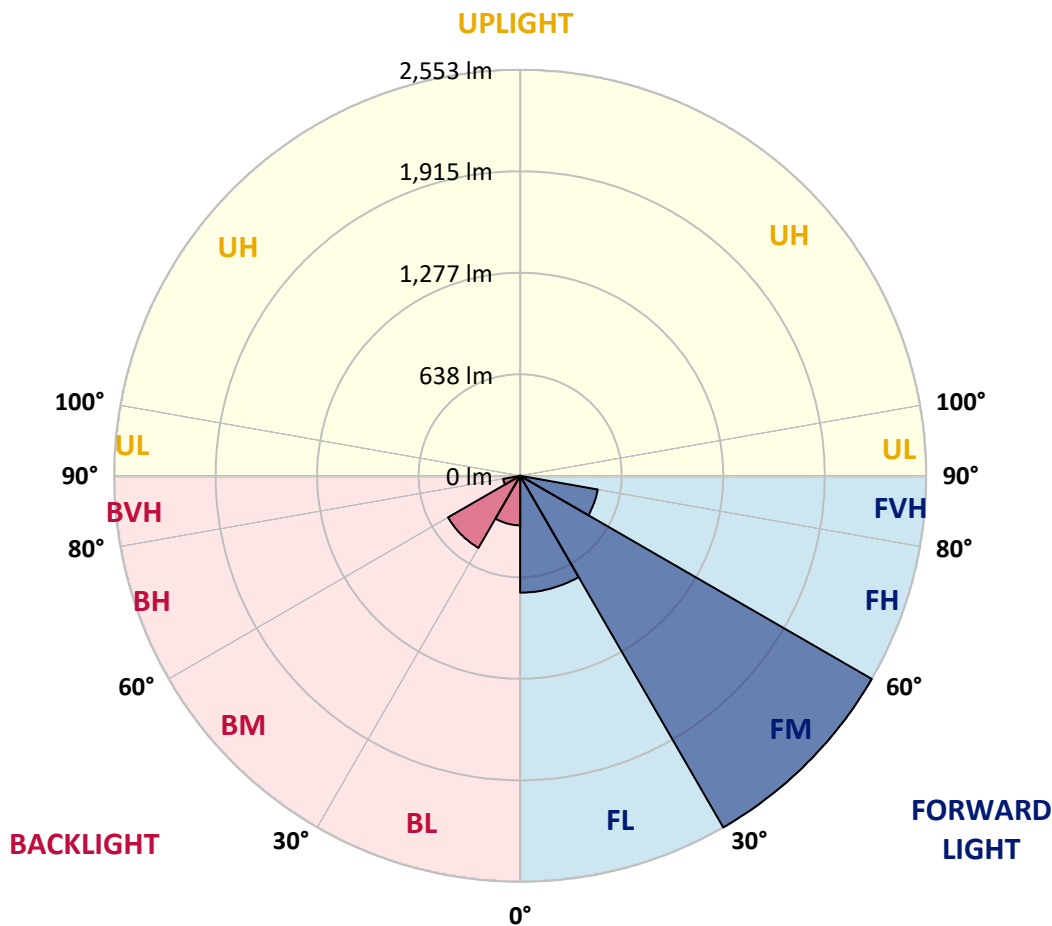
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.7	15.5			
FM (30°-60°)	2553.1	53.9			
FH (60°-80°)	495.3	10.5			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	310.9	6.6	B1/500		
BM (30°-60°)	523.5	11.1	B1/1000		
BH (60°-80°)	108.9	2.3	B0/110		G0/110
BVH (80°-90°)	5.3	0.1			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°	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7
2.5°	2496.7	2458.1	2409.3	2368.9	2308.7	2187.5	2154.6	2115.2	2082.3	2038.1	1976.1
5°	2270.2	2258.0	2235.4	2083.2	1973.3	1826.7	1706.4	1655.7	1589.0	1534.5	1495.0
7.5°	2097.3	2048.4	1977.0	1823.9	1648.1	1491.2	1357.8	1279.8	1191.5	1161.4	1107.8
10°	1912.2	1923.5	1818.2	1603.0	1390.7	1263.8	1181.1	1106.0	1026.1	973.5	897.4
12.5°	1853.0	1816.3	1735.5	1469.6	1288.3	1169.9	1069.3	976.3	891.7	807.2	733.9
15°	1891.5	1835.1	1722.4	1441.4	1209.3	1061.8	935.9	810.0	732.0	623.9	547.8
17.5°	2029.6	1984.5	1833.3	1471.5	1168.9	958.4	771.5	641.8	522.4	424.7	386.2
20°	2259.9	2196.0	2006.2	1510.0	1108.8	833.5	625.8	466.1	353.3	312.0	290.4
22.5°	2485.4	2450.6	2211.0	1584.3	1055.2	722.6	469.8	313.8	264.0	256.5	242.4
25°	2914.8	2810.5	2523.9	1718.6	1013.9	618.3	354.2	252.8	223.6	218.0	219.9
27.5°	3170.4	3083.0	2813.3	1807.9	967.8	538.4	299.7	232.1	212.4	200.1	195.4
30°	3415.6	3314.2	2957.1	1860.5	869.2	453.9	265.9	222.7	218.0	200.1	194.5
32.5°	3604.5	3504.9	3164.7	1939.4	828.8	399.4	218.9	173.8	161.6	159.7	176.7
35°	3893.9	3787.7	3342.3	1982.7	797.8	371.2	189.8	155.0	140.9	135.3	136.2
37.5°	4163.6	4091.2	3506.8	1999.6	764.9	362.7	170.1	139.1	126.9	123.1	122.2
40°	4389.1	4227.5	3662.8	2017.4	750.8	346.7	157.9	126.9	118.4	112.8	112.8
42.5°	4492.5	4328.0	3837.5	2007.1	747.0	321.4	157.9	116.5	109.9	104.3	103.4
45°	4469.9	4403.2	3915.5	2002.4	747.0	296.0	143.8	113.7	104.3	96.8	94.9
47.5°	4528.2	4440.8	4013.3	2022.1	732.0	278.1	121.2	119.3	98.7	89.3	87.4
50°	4538.5	4555.4	4183.3	2124.6	699.1	255.6	94.9	117.5	94.9	80.8	78.9
52°	4606.2	4500.9	4235.0	2179.1	664.3	238.7	79.9	100.5	91.1	75.2	73.3
52.5°	4513.1	4581.7	4247.2	2198.8	668.1	227.4	77.1	98.7	89.3	75.2	70.5
55°	4408.8	4474.6	4197.4	2241.1	612.7	178.5	60.1	71.4	80.8	65.8	63.0
57.5°	3831.9	3898.6	3647.7	2052.2	499.0	125.9	49.8	53.6	71.4	61.1	58.3
60°	3406.2	3358.3	3061.4	1712.0	354.2	70.5	39.5	41.3	78.0	56.4	55.4
62.5°	3113.1	3010.6	2558.7	1322.1	216.1	47.0	31.0	31.9	60.1	52.6	52.6
65°	2303.1	2188.4	1699.8	799.6	106.2	32.9	23.5	25.4	37.6	45.1	45.1
67.5°	1314.6	1270.4	821.3	360.8	44.2	20.7	17.9	19.7	29.1	36.6	34.8
70°	604.2	542.2	315.7	76.1	20.7	14.1	14.1	16.0	23.5	27.2	25.4
72.5°	176.7	167.3	77.1	12.2	8.5	8.5	9.4	12.2	17.9	20.7	18.8
75°	13.2	8.5	5.6	3.8	3.8	5.6	7.5	12.2	17.9	19.7	16.0
77.5°	0.9	1.9	0.9	0.9	2.8	5.6	8.5	15.0	23.5	24.4	17.9
80°	0.9	0.9	0.0	0.9	2.8	5.6	9.4	16.9	26.3	28.2	15.0
82.5°	0.0	0.0	0.0	0.9	3.8	7.5	11.3	17.9	24.4	30.1	16.0
85°	0.0	0.0	0.0	0.9	5.6	10.3	13.2	4.7	2.8	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°	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7
2.5°	2020.3	1995.8	1986.4	1994.9	1992.1	1989.2	2040.9	2029.6	2027.8	2044.7	2040.9
5°	1516.6	1473.4	1591.8	1543.8	1593.6	1623.7	1629.4	1632.2	1666.9	1630.3	1678.2
7.5°	1080.6	1091.9	1090.9	1122.9	1180.2	1230.9	1261.0	1237.5	1235.6	1230.9	1210.3
10°	863.5	843.8	840.0	832.5	850.4	893.6	930.3	901.1	880.5	908.6	900.2
12.5°	705.7	678.4	663.4	633.3	634.3	663.4	663.4	663.4	684.1	700.0	712.3
15°	541.2	518.7	518.7	488.6	482.0	483.0	498.0	499.9	532.8	542.2	546.9
17.5°	378.7	366.5	380.6	392.8	385.3	387.1	392.8	394.7	399.4	395.6	405.0
20°	291.3	289.4	293.2	314.8	330.8	340.2	333.6	324.2	318.5	305.4	305.4
22.5°	247.1	250.9	257.5	275.3	296.0	301.6	294.1	272.5	255.6	253.7	254.6
25°	219.9	223.6	234.0	245.2	256.5	265.9	258.4	242.4	233.0	224.6	224.6
27.5°	203.0	204.8	210.5	218.9	228.3	235.9	233.0	224.6	214.2	210.5	202.0
30°	189.8	192.6	199.2	201.1	209.5	213.3	208.6	206.7	200.1	195.4	192.6
32.5°	183.2	182.3	187.0	188.9	189.8	192.6	187.0	189.8	188.9	181.4	178.5
35°	138.1	145.6	157.9	168.2	171.0	174.8	173.8	170.1	159.7	151.3	140.9
37.5°	124.0	128.7	135.3	143.8	155.0	159.7	157.9	148.5	136.2	130.6	128.7
40°	114.6	117.5	123.1	128.7	140.0	148.5	141.9	133.4	124.0	119.3	116.5
42.5°	106.2	107.1	109.9	115.6	124.0	137.2	125.9	114.6	110.9	108.1	106.2
45°	96.8	96.8	100.5	103.4	112.8	125.0	113.7	103.4	101.5	99.6	98.7
47.5°	89.3	90.2	92.1	95.8	103.4	111.8	104.3	95.8	91.1	90.2	88.3
50°	79.9	80.8	84.6	88.3	97.7	102.4	97.7	88.3	83.6	80.8	80.8
52°	72.4	75.2	78.9	86.4	93.0	100.5	94.9	84.6	78.9	76.1	74.2
52.5°	71.4	73.3	77.1	85.5	93.0	99.6	94.0	83.6	77.1	75.2	73.3
55°	63.9	66.7	73.3	83.6	92.1	99.6	92.1	82.7	73.3	68.6	66.7
57.5°	61.1	63.0	71.4	84.6	91.1	99.6	92.1	82.7	73.3	64.8	63.0
60°	58.3	62.0	71.4	81.7	90.2	100.5	93.0	81.7	71.4	61.1	61.1
62.5°	55.4	58.3	70.5	79.9	86.4	96.8	89.3	79.9	68.6	58.3	57.3
65°	47.9	52.6	62.0	66.7	74.2	83.6	76.1	69.5	60.1	51.7	50.7
67.5°	36.6	38.5	46.0	51.7	56.4	64.8	61.1	52.6	46.0	39.5	39.5
70°	25.4	27.2	32.9	35.7	40.4	45.1	42.3	35.7	31.0	27.2	26.3
72.5°	17.9	18.8	20.7	22.6	24.4	26.3	25.4	20.7	17.9	16.9	16.0
75°	14.1	16.0	16.9	16.0	15.0	14.1	14.1	12.2	10.3	9.4	9.4
77.5°	14.1	15.0	14.1	12.2	10.3	9.4	8.5	7.5	5.6	4.7	5.6
80°	12.2	12.2	12.2	10.3	9.4	8.5	7.5	6.6	5.6	4.7	4.7
82.5°	13.2	13.2	12.2	10.3	10.3	8.5	8.5	7.5	6.6	4.7	4.7
85°	0.0	0.0	0.0	1.9	4.7	8.5	8.5	7.5	6.6	5.6	5.6
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	3.8	4.7	5.6	5.6	5.6
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°	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7
2.5°	2074.8	2110.5	2178.1	2245.8	2287.1	2336.0	2424.3	2471.3	2532.4	2562.4	2621.6
5°	1671.6	1756.2	1786.3	1863.3	1946.0	2028.7	2160.3	2305.0	2425.2	2507.9	2615.0
7.5°	1219.7	1239.4	1355.9	1407.6	1542.9	1693.3	1872.7	2055.0	2207.2	2342.6	2424.3
10°	914.3	986.6	1059.9	1158.6	1267.6	1422.6	1594.6	1795.7	1993.0	2128.3	2231.7
12.5°	734.8	792.1	889.8	996.0	1130.4	1232.8	1405.7	1604.9	1860.5	1993.0	2129.3
15°	556.3	629.6	740.4	850.4	992.3	1100.3	1275.1	1526.0	1854.9	2037.2	2154.6
17.5°	412.5	462.3	561.9	685.0	829.7	981.9	1217.8	1517.5	1917.8	2134.9	2256.1
20°	315.7	332.6	395.6	505.5	662.5	861.7	1124.8	1554.2	2103.9	2372.6	2495.7
22.5°	255.6	263.1	287.5	363.6	515.9	756.4	1080.6	1579.6	2313.4	2657.3	2821.8
25°	222.7	220.8	236.8	269.7	403.1	657.8	1024.2	1675.4	2569.9	2991.9	3139.4
27.5°	203.0	203.0	210.5	234.0	334.5	593.9	988.5	1744.0	2828.4	3286.0	3365.8
30°	192.6	194.5	216.1	223.6	278.1	517.7	929.3	1813.5	3075.5	3473.9	3583.8
32.5°	178.5	171.0	166.3	185.1	234.0	449.2	870.1	1842.7	3275.6	3704.1	3798.1
35°	137.2	133.4	139.1	153.2	201.1	390.9	804.3	1875.5	3505.8	3971.0	3989.8
37.5°	124.0	123.1	126.9	139.1	169.1	340.2	757.4	1867.1	3681.6	4191.8	4141.0
40°	114.6	114.6	117.5	127.8	151.3	304.4	708.5	1859.6	3851.6	4439.9	4291.4
42.5°	107.1	107.1	111.8	118.4	143.8	281.0	671.9	1849.2	3994.5	4592.1	4379.7
45°	96.8	99.6	107.1	113.7	145.6	265.0	644.6	1809.8	4043.3	4590.2	4337.4
47.5°	89.3	93.0	100.5	109.9	131.6	260.3	625.8	1775.0	4026.4	4477.4	4204.9
50°	80.8	85.5	95.8	111.8	111.8	250.9	606.1	1806.0	4014.2	4390.1	4078.1
52°	75.2	78.9	92.1	109.0	97.7	231.2	593.9	1866.1	4064.0	4378.8	4021.7
52.5°	74.2	77.1	89.3	107.1	93.0	227.4	585.4	1880.2	4080.0	4350.6	4060.2
55°	65.8	69.5	81.7	83.6	76.1	187.0	558.2	1912.2	4001.0	4295.1	4023.6
57.5°	62.0	63.9	72.4	68.6	65.8	140.9	480.2	1862.4	3553.8	3815.0	3743.6
60°	57.3	59.2	67.7	53.6	55.4	98.7	360.8	1617.1	2853.7	3178.8	3307.6
62.5°	55.4	54.5	63.9	43.2	47.0	71.4	254.6	1314.6	2198.8	2616.9	2839.6
65°	48.9	47.9	46.0	36.6	40.4	55.4	152.2	857.9	1549.5	1979.8	2102.0
67.5°	37.6	39.5	33.8	29.1	33.8	43.2	84.6	384.3	812.8	1187.7	1286.4
70°	26.3	28.2	27.2	25.4	30.1	35.7	48.9	131.6	336.4	623.9	687.8
72.5°	16.0	19.7	20.7	21.6	26.3	31.0	34.8	42.3	89.3	220.8	274.4
75°	9.4	13.2	16.0	18.8	21.6	26.3	29.1	30.1	31.0	41.3	66.7
77.5°	6.6	9.4	14.1	17.9	21.6	26.3	31.0	32.9	31.0	29.1	31.0
80°	5.6	9.4	13.2	16.9	22.6	27.2	31.0	31.0	30.1	26.3	28.2
82.5°	5.6	9.4	14.1	17.9	21.6	26.3	30.1	31.0	28.2	26.3	27.2
85°	6.6	10.3	15.0	18.8	23.5	21.6	19.7	16.0	15.0	12.2	13.2
87.5°	6.6	9.4	9.4	10.3	11.3	11.3	11.3	10.3	8.5	7.5	7.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7	2401.7
2.5°	2624.4	2699.6	2696.8	2698.7	2687.4	2611.3	2574.6	2481.6	2507.9	2496.7
5°	2725.0	2799.2	2863.1	2855.6	2769.2	2665.8	2512.6	2367.9	2328.5	2270.2
7.5°	2624.4	2803.0	2862.2	2853.7	2725.9	2593.4	2349.1	2204.4	2135.8	2097.3
10°	2464.7	2671.4	2744.7	2759.8	2673.3	2472.2	2247.6	2015.6	1978.9	1912.2
12.5°	2373.6	2523.9	2569.0	2609.4	2579.3	2429.0	2170.6	1947.9	1897.2	1853.0
15°	2299.3	2388.6	2407.4	2453.4	2471.3	2390.5	2211.0	2021.2	1896.2	1891.5
17.5°	2367.9	2331.3	2262.7	2276.8	2333.2	2391.4	2315.3	2165.9	2044.7	2029.6
20°	2481.6	2320.0	2165.0	2199.7	2246.7	2425.2	2473.2	2367.9	2298.4	2259.9
22.5°	2612.2	2339.7	2133.9	2150.9	2240.1	2501.4	2728.7	2670.5	2540.8	2485.4
25°	2853.7	2394.2	2158.4	2169.7	2291.8	2607.5	2959.9	3003.1	2926.1	2914.8
27.5°	3089.6	2535.2	2211.9	2186.6	2318.1	2710.9	3099.9	3332.0	3196.7	3170.4
30°	3209.8	2649.8	2291.8	2248.6	2427.1	2773.9	3184.5	3546.2	3427.8	3415.6
32.5°	3394.0	2754.1	2353.8	2298.4	2488.2	2851.8	3342.3	3780.2	3665.6	3604.5
35°	3471.1	2867.8	2490.1	2425.2	2663.0	2960.8	3423.2	3988.8	3953.1	3893.9
37.5°	3619.5	2990.0	2650.8	2647.0	2874.4	3102.7	3568.8	4272.6	4266.0	4163.6
40°	3631.8	3123.4	2904.5	3022.9	3201.4	3349.9	3696.6	4351.5	4458.6	4389.1
42.5°	3650.5	3357.4	3343.3	3441.0	3594.2	3562.2	3701.3	4370.3	4533.8	4492.5
45°	3659.0	3591.3	3789.6	3970.0	4033.9	3840.4	3657.1	4334.6	4573.3	4469.9
47.5°	3591.3	3792.4	4150.4	4499.1	4517.8	4011.4	3638.3	4298.0	4596.8	4528.2
50°	3600.7	3918.3	4462.4	4774.4	4705.8	4162.7	3609.2	4275.4	4584.6	4538.5
52°	3578.2	3921.2	4506.6	4768.7	4720.8	4079.0	3559.4	4189.0	4573.3	4606.2
52.5°	3603.6	3904.3	4460.5	4772.5	4710.5	4120.4	3552.8	4236.9	4579.9	4513.1
55°	3516.2	3703.2	4190.8	4323.3	4313.9	3739.8	3350.8	4078.1	4407.9	4408.8
57.5°	3177.9	3209.8	3286.9	3284.1	3240.9	2940.2	2865.9	3750.1	3929.6	3831.9
60°	2800.2	2350.1	2142.4	2057.8	2009.9	1961.1	2535.2	3430.7	3447.6	3406.2
62.5°	2419.6	1629.4	1353.1	1329.6	1340.9	1519.4	2450.6	3303.8	3202.3	3113.1
65°	1952.6	1187.7	982.9	951.9	1061.8	1254.4	1983.6	2533.3	2377.3	2303.1
67.5°	1226.2	866.4	664.3	606.1	738.6	863.5	1303.3	1591.8	1417.0	1314.6
70°	727.3	483.9	300.7	269.7	303.5	460.4	730.1	794.0	656.8	604.2
72.5°	286.6	177.6	83.6	71.4	74.2	161.6	268.7	262.2	198.3	176.7
75°	77.1	53.6	29.1	23.5	19.7	30.1	43.2	28.2	10.3	13.2
77.5°	35.7	31.9	25.4	19.7	15.0	11.3	5.6	1.9	1.9	0.9
80°	31.0	27.2	23.5	19.7	15.0	9.4	4.7	0.9	0.9	0.9
82.5°	29.1	25.4	21.6	17.9	14.1	9.4	4.7	0.9	0.0	0.0
85°	12.2	16.0	17.9	16.9	15.0	9.4	4.7	0.9	0.0	0.0
87.5°	6.6	5.6	4.7	3.8	2.8	1.9	1.9	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

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