

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: P527015

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527015
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-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 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

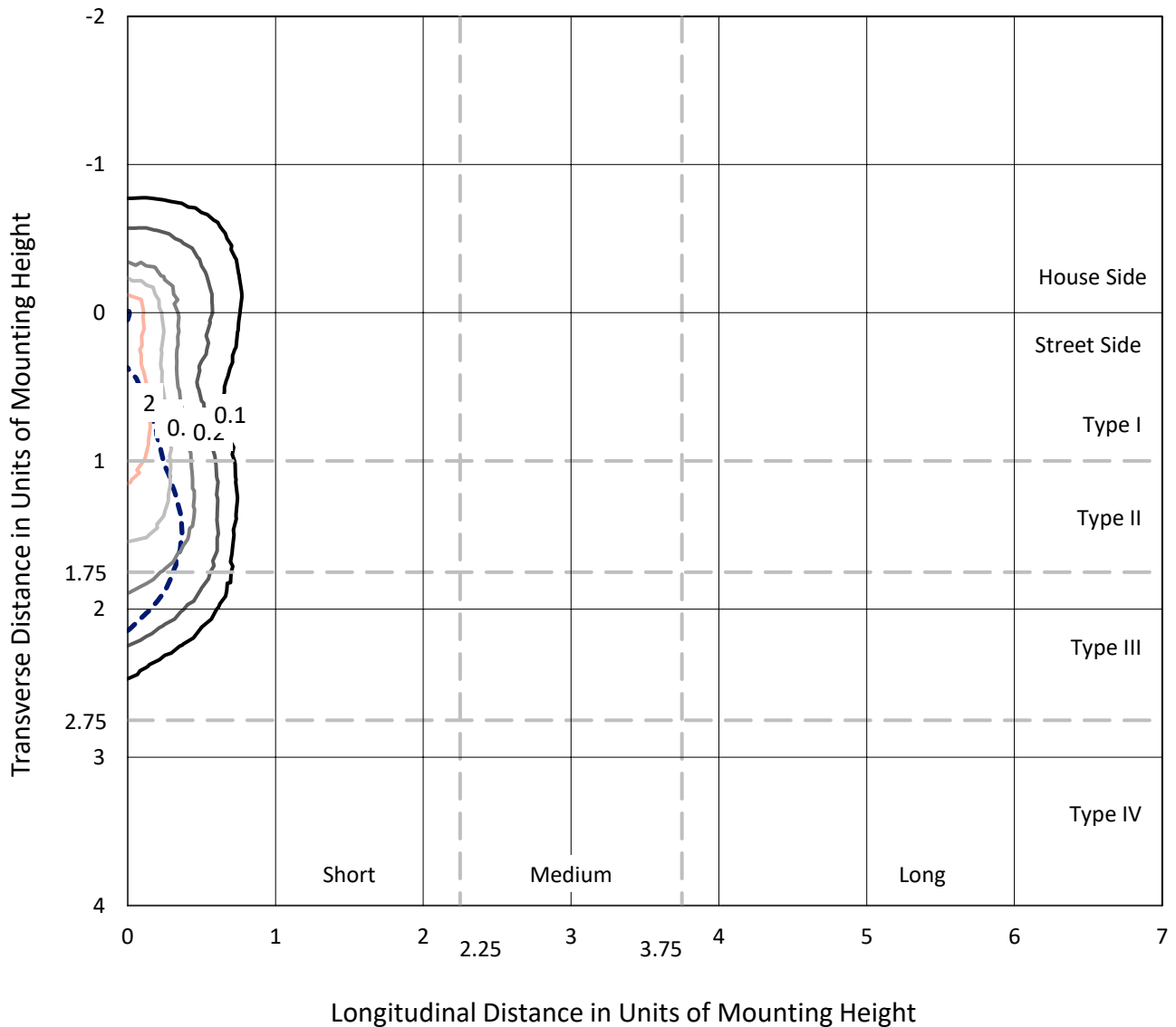
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

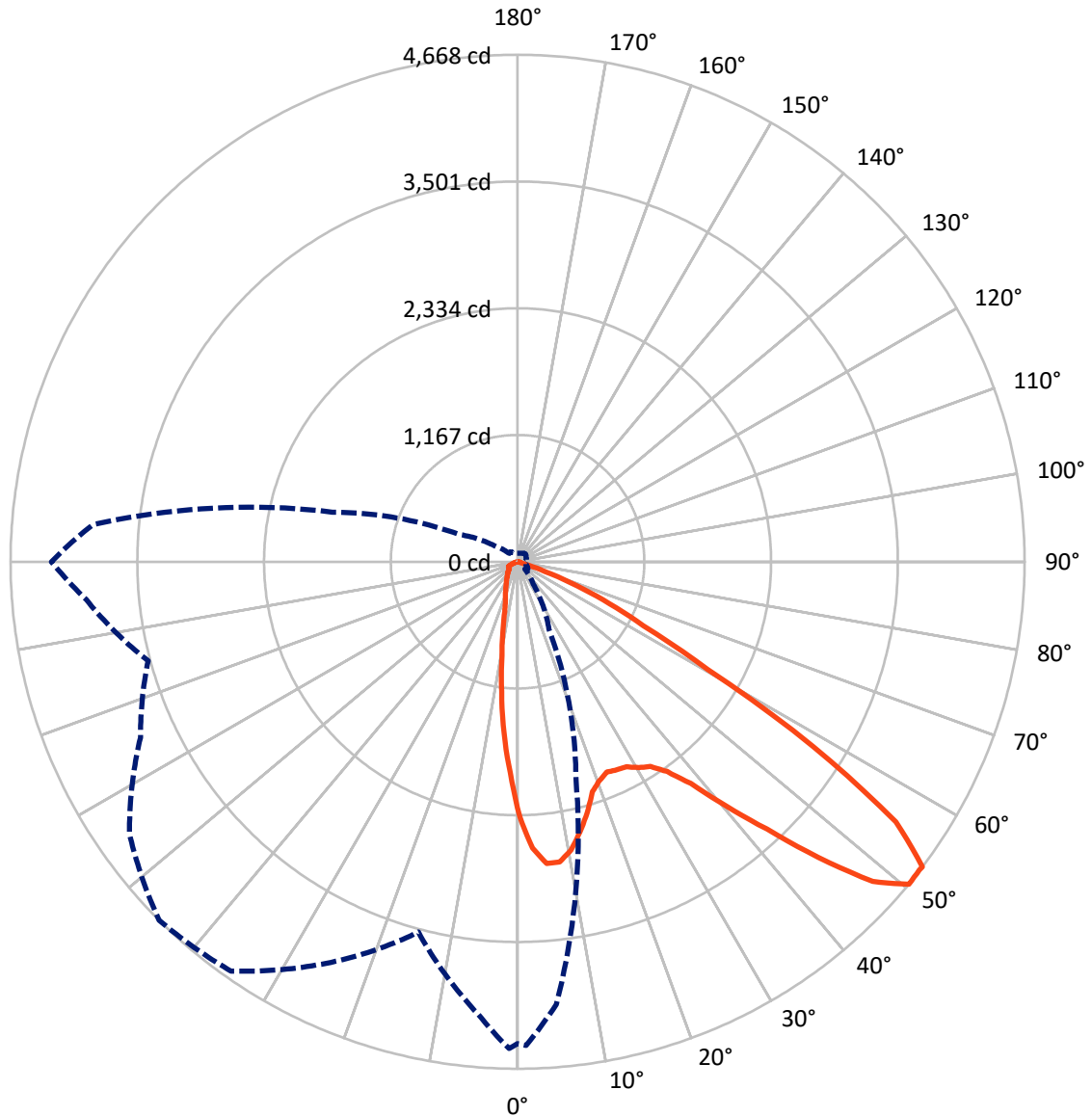
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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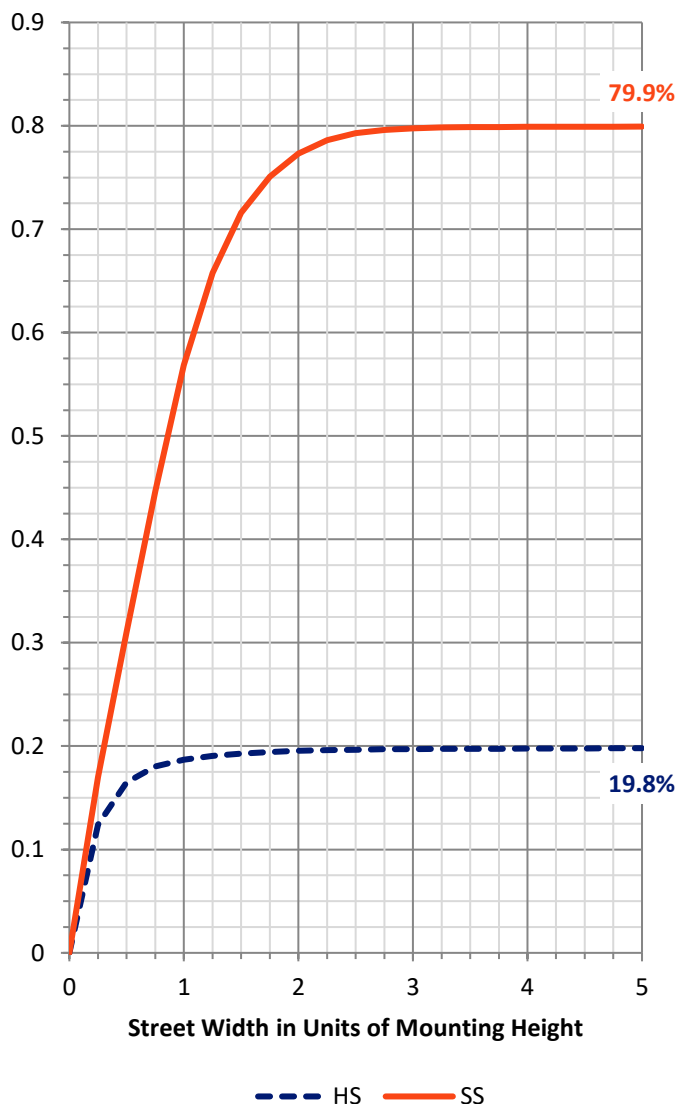
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.4	0.0	927.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3702.6	0.0	3702.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	4630.0	0.0	4630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.7
10°-20°	340.1	7.3
20°-30°	511.0	11.0
30°-40°	767.0	16.6
40°-50°	1078.0	23.3
50°-60°	1162.8	25.1
60°-70°	539.9	11.7
70°-80°	50.8	1.1
80°-90°	9.4	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°	4630.0	100.0
0°-180°	4630.0	100.0

Coefficient of Utilization

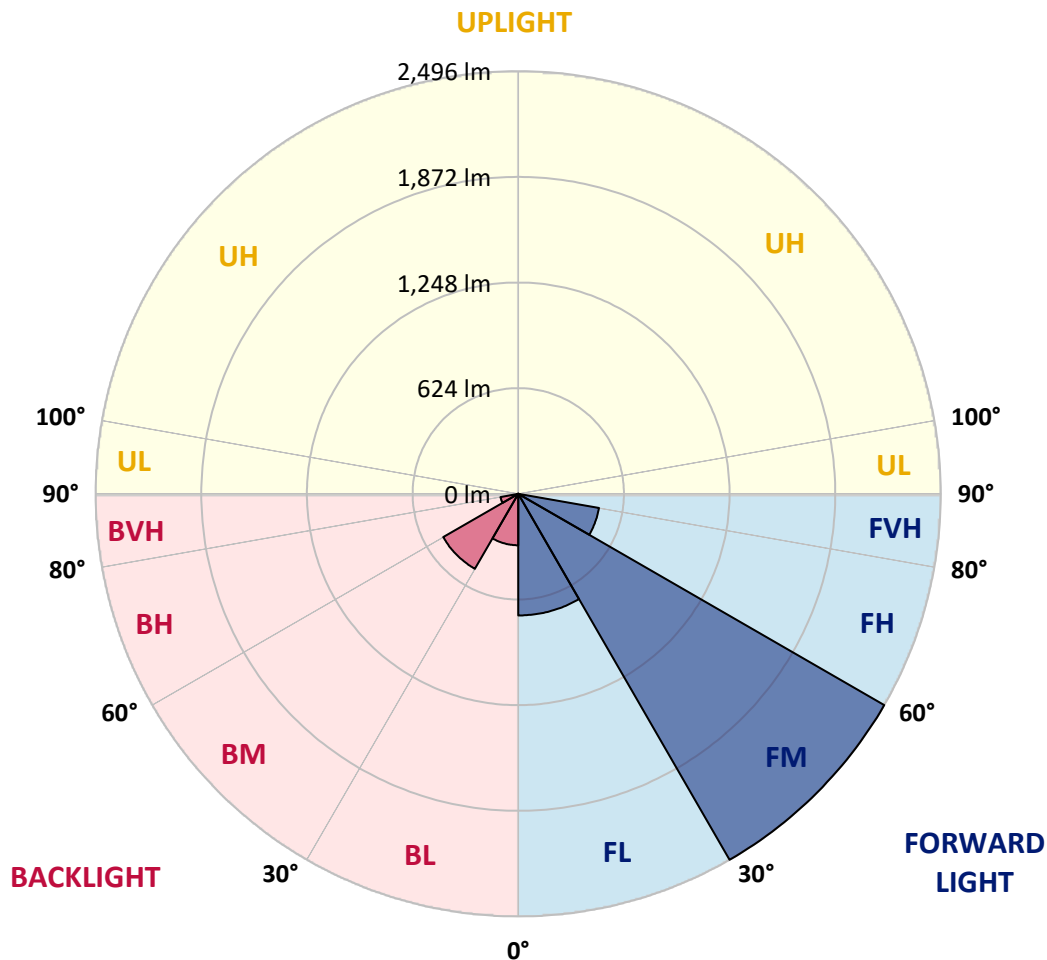


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.3	15.5			
FM (30°-60°)	2495.9	53.9			
FH (60°-80°)	484.2	10.5			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	304.0	6.6	B1/500		
BM (30°-60°)	511.8	11.1	B1/1000		
BH (60°-80°)	106.5	2.3	B0/110		G0/110
BVH (80°-90°)	5.1	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°	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0
2.5°	2440.8	2403.1	2355.3	2315.8	2257.1	2138.5	2106.4	2067.8	2035.7	1992.5	1931.9
5°	2219.4	2207.4	2185.4	2036.6	1929.1	1785.8	1668.2	1618.6	1553.4	1500.1	1461.5
7.5°	2050.4	2002.6	1932.8	1783.0	1611.3	1457.9	1327.4	1251.2	1164.8	1135.4	1083.1
10°	1869.4	1880.4	1777.5	1567.2	1359.6	1235.5	1154.7	1081.2	1003.1	951.7	877.3
12.5°	1811.5	1775.7	1696.7	1436.7	1259.4	1143.7	1045.4	954.4	871.8	789.1	717.4
15°	1849.2	1794.1	1683.8	1409.2	1182.3	1038.0	914.9	791.9	715.6	610.0	535.6
17.5°	1984.2	1940.1	1792.2	1438.6	1142.8	937.0	754.2	627.4	510.8	415.2	377.6
20°	2209.3	2146.8	1961.3	1476.2	1084.0	814.8	611.8	455.6	345.4	305.0	283.9
22.5°	2429.8	2395.8	2161.5	1548.8	1031.6	706.4	459.3	306.8	258.1	250.8	237.0
25°	2849.6	2747.6	2467.4	1680.2	991.2	604.5	346.3	247.1	218.6	213.1	215.0
27.5°	3099.4	3014.0	2750.3	1767.4	946.2	526.4	293.0	226.9	207.6	195.7	191.1
30°	3339.2	3240.0	2890.9	1818.9	849.7	443.7	260.0	217.7	213.1	195.7	190.2
32.5°	3523.8	3426.5	3093.9	1896.0	810.2	390.4	214.0	169.9	158.0	156.2	172.7
35°	3806.8	3703.0	3267.5	1938.3	779.9	362.9	185.6	151.6	137.8	132.3	133.2
37.5°	4070.4	3999.7	3428.3	1954.8	747.8	354.6	166.3	136.0	124.0	120.3	119.4
40°	4290.9	4132.9	3580.8	1972.3	734.0	339.0	154.3	124.0	115.7	110.2	110.2
42.5°	4391.9	4231.2	3751.6	1962.2	730.3	314.2	154.3	113.9	107.5	102.0	101.0
45°	4369.9	4304.7	3827.9	1957.6	730.3	289.4	140.5	111.2	102.0	94.6	92.8
47.5°	4426.8	4341.4	3923.4	1976.9	715.6	271.9	118.5	116.7	96.5	87.3	85.4
50°	4436.9	4453.5	4089.7	2077.0	683.5	249.9	92.8	114.8	92.8	79.0	77.2
52°	4503.1	4400.2	4140.2	2130.3	649.5	233.3	78.1	98.3	89.1	73.5	71.7
52.5°	4412.1	4479.2	4152.2	2149.6	653.1	222.3	75.3	96.5	87.3	73.5	68.9
55°	4310.2	4374.5	4103.5	2190.9	598.9	174.5	58.8	69.8	79.0	64.3	61.5
57.5°	3746.1	3811.4	3566.1	2006.3	487.8	123.1	48.7	52.4	69.8	59.7	57.0
60°	3330.0	3283.1	2992.9	1673.7	346.3	68.9	38.6	40.4	76.2	55.1	54.2
62.5°	3043.4	2943.3	2501.4	1292.5	211.3	45.9	30.3	31.2	58.8	51.4	51.4
65°	2251.5	2139.5	1661.8	781.7	103.8	32.2	23.0	24.8	36.7	44.1	44.1
67.5°	1285.1	1242.0	802.9	352.8	43.2	20.2	17.5	19.3	28.5	35.8	34.0
70°	590.7	530.0	308.7	74.4	20.2	13.8	13.8	15.6	23.0	26.6	24.8
72.5°	172.7	163.5	75.3	11.9	8.3	8.3	9.2	11.9	17.5	20.2	18.4
75°	12.9	8.3	5.5	3.7	3.7	5.5	7.3	11.9	17.5	19.3	15.6
77.5°	0.9	1.8	0.9	0.9	2.8	5.5	8.3	14.7	23.0	23.9	17.5
80°	0.9	0.9	0.0	0.9	2.8	5.5	9.2	16.5	25.7	27.6	14.7
82.5°	0.0	0.0	0.0	0.9	3.7	7.3	11.0	17.5	23.9	29.4	15.6
85°	0.0	0.0	0.0	0.9	5.5	10.1	12.9	4.6	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°	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0
2.5°	1975.0	1951.1	1942.0	1950.2	1947.5	1944.7	1995.2	1984.2	1982.4	1998.9	1995.2
5°	1482.7	1440.4	1556.1	1509.3	1558.0	1587.4	1592.9	1595.6	1629.6	1593.8	1640.7
7.5°	1056.4	1067.4	1066.5	1097.8	1153.8	1203.4	1232.8	1209.8	1208.0	1203.4	1183.2
10°	844.2	824.9	821.2	813.9	831.4	873.6	909.4	881.0	860.7	888.3	880.0
12.5°	689.9	663.2	648.5	619.2	620.1	648.5	648.5	648.5	668.8	684.4	696.3
15°	529.1	507.1	507.1	477.7	471.3	472.2	486.9	488.7	520.9	530.0	534.6
17.5°	370.2	358.3	372.0	384.0	376.6	378.5	384.0	385.8	390.4	386.7	395.9
20°	284.8	282.9	286.6	307.7	323.4	332.5	326.1	316.9	311.4	298.6	298.6
22.5°	241.6	245.3	251.7	269.2	289.4	294.9	287.5	266.4	249.9	248.0	248.9
25°	215.0	218.6	228.7	239.8	250.8	260.0	252.6	237.0	227.8	219.6	219.6
27.5°	198.4	200.3	205.8	214.0	223.2	230.6	227.8	219.6	209.4	205.8	197.5
30°	185.6	188.3	194.7	196.6	204.9	208.5	203.9	202.1	195.7	191.1	188.3
32.5°	179.1	178.2	182.8	184.6	185.6	188.3	182.8	185.6	184.6	177.3	174.5
35°	135.0	142.4	154.3	164.4	167.2	170.9	169.9	166.3	156.2	147.9	137.8
37.5°	121.3	125.9	132.3	140.5	151.6	156.2	154.3	145.1	133.2	127.7	125.9
40°	112.1	114.8	120.3	125.9	136.9	145.1	138.7	130.4	121.3	116.7	113.9
42.5°	103.8	104.7	107.5	113.0	121.3	134.1	123.1	112.1	108.4	105.6	103.8
45°	94.6	94.6	98.3	101.0	110.2	122.2	111.2	101.0	99.2	97.4	96.5
47.5°	87.3	88.2	90.0	93.7	101.0	109.3	102.0	93.7	89.1	88.2	86.4
50°	78.1	79.0	82.7	86.4	95.5	100.1	95.5	86.4	81.8	79.0	79.0
52°	70.7	73.5	77.2	84.5	90.9	98.3	92.8	82.7	77.2	74.4	72.6
52.5°	69.8	71.7	75.3	83.6	90.9	97.4	91.9	81.8	75.3	73.5	71.7
55°	62.5	65.2	71.7	81.8	90.0	97.4	90.0	80.8	71.7	67.1	65.2
57.5°	59.7	61.5	69.8	82.7	89.1	97.4	90.0	80.8	71.7	63.4	61.5
60°	57.0	60.6	69.8	79.9	88.2	98.3	90.9	79.9	69.8	59.7	59.7
62.5°	54.2	57.0	68.9	78.1	84.5	94.6	87.3	78.1	67.1	57.0	56.0
65°	46.8	51.4	60.6	65.2	72.6	81.8	74.4	68.0	58.8	50.5	49.6
67.5°	35.8	37.7	45.0	50.5	55.1	63.4	59.7	51.4	45.0	38.6	38.6
70°	24.8	26.6	32.2	34.9	39.5	44.1	41.3	34.9	30.3	26.6	25.7
72.5°	17.5	18.4	20.2	22.0	23.9	25.7	24.8	20.2	17.5	16.5	15.6
75°	13.8	15.6	16.5	15.6	14.7	13.8	13.8	11.9	10.1	9.2	9.2
77.5°	13.8	14.7	13.8	11.9	10.1	9.2	8.3	7.3	5.5	4.6	5.5
80°	11.9	11.9	11.9	10.1	9.2	8.3	7.3	6.4	5.5	4.6	4.6
82.5°	12.9	12.9	11.9	10.1	10.1	8.3	8.3	7.3	6.4	4.6	4.6
85°	0.0	0.0	0.0	1.8	4.6	8.3	8.3	7.3	6.4	5.5	5.5
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	3.7	4.6	5.5	5.5	5.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0
2.5°	2028.3	2063.2	2129.4	2195.5	2235.9	2283.7	2370.0	2416.0	2475.7	2505.1	2563.0
5°	1634.2	1716.9	1746.3	1821.6	1902.5	1983.3	2111.9	2253.4	2371.0	2451.8	2556.5
7.5°	1192.4	1211.7	1325.6	1376.1	1508.4	1655.4	1830.8	2009.0	2157.8	2290.1	2370.0
10°	893.8	964.6	1036.2	1132.7	1239.2	1390.8	1558.9	1755.5	1948.4	2080.7	2181.7
12.5°	718.4	774.4	869.9	973.7	1105.1	1205.2	1374.3	1569.0	1818.9	1948.4	2081.6
15°	543.8	615.5	723.9	831.4	970.1	1075.7	1246.6	1491.8	1813.4	1991.6	2106.4
17.5°	403.3	452.0	549.3	669.7	811.1	960.0	1190.5	1483.6	1874.9	2087.1	2205.6
20°	308.7	325.2	386.7	494.2	647.6	842.4	1099.6	1519.4	2056.8	2319.5	2439.9
22.5°	249.9	257.2	281.1	355.5	504.3	739.5	1056.4	1544.2	2261.6	2597.9	2758.6
25°	217.7	215.9	231.5	263.6	394.1	643.0	1001.3	1637.9	2512.4	2924.9	3069.1
27.5°	198.4	198.4	205.8	228.7	327.0	580.6	966.4	1705.0	2765.0	3212.4	3290.5
30°	188.3	190.2	211.3	218.6	271.9	506.2	908.5	1772.9	3006.6	3396.1	3503.6
32.5°	174.5	167.2	162.6	181.0	228.7	439.1	850.6	1801.4	3202.3	3621.2	3713.1
35°	134.1	130.4	136.0	149.7	196.6	382.1	786.3	1833.6	3427.4	3882.1	3900.5
37.5°	121.3	120.3	124.0	136.0	165.4	332.5	740.4	1825.3	3599.2	4098.0	4048.4
40°	112.1	112.1	114.8	124.9	147.9	297.6	692.6	1817.9	3765.4	4340.5	4195.3
42.5°	104.7	104.7	109.3	115.7	140.5	274.7	656.8	1807.8	3905.1	4489.3	4281.7
45°	94.6	97.4	104.7	111.2	142.4	259.1	630.2	1769.3	3952.8	4487.5	4240.4
47.5°	87.3	90.9	98.3	107.5	128.6	254.5	611.8	1735.3	3936.3	4377.2	4110.8
50°	79.0	83.6	93.7	109.3	109.3	245.3	592.5	1765.6	3924.3	4291.8	3986.8
52°	73.5	77.2	90.0	106.6	95.5	226.0	580.6	1824.4	3973.0	4280.8	3931.7
52.5°	72.6	75.3	87.3	104.7	90.9	222.3	572.3	1838.2	3988.6	4253.2	3969.4
55°	64.3	68.0	79.9	81.8	74.4	182.8	545.7	1869.4	3911.5	4199.0	3933.5
57.5°	60.6	62.5	70.7	67.1	64.3	137.8	469.4	1820.7	3474.2	3729.6	3659.8
60°	56.0	57.9	66.1	52.4	54.2	96.5	352.8	1580.9	2789.9	3107.7	3233.5
62.5°	54.2	53.3	62.5	42.3	45.9	69.8	248.9	1285.1	2149.6	2558.4	2776.1
65°	47.8	46.8	45.0	35.8	39.5	54.2	148.8	838.7	1514.8	1935.5	2055.0
67.5°	36.7	38.6	33.1	28.5	33.1	42.3	82.7	375.7	794.6	1161.1	1257.6
70°	25.7	27.6	26.6	24.8	29.4	34.9	47.8	128.6	328.9	610.0	672.4
72.5°	15.6	19.3	20.2	21.1	25.7	30.3	34.0	41.3	87.3	215.9	268.2
75°	9.2	12.9	15.6	18.4	21.1	25.7	28.5	29.4	30.3	40.4	65.2
77.5°	6.4	9.2	13.8	17.5	21.1	25.7	30.3	32.2	30.3	28.5	30.3
80°	5.5	9.2	12.9	16.5	22.0	26.6	30.3	30.3	29.4	25.7	27.6
82.5°	5.5	9.2	13.8	17.5	21.1	25.7	29.4	30.3	27.6	25.7	26.6
85°	6.4	10.1	14.7	18.4	23.0	21.1	19.3	15.6	14.7	11.9	12.9
87.5°	6.4	9.2	9.2	10.1	11.0	11.0	11.0	10.1	8.3	7.3	7.3
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°	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0
2.5°	2565.7	2639.2	2636.4	2638.3	2627.3	2552.8	2517.0	2426.1	2451.8	2440.8
5°	2664.0	2736.6	2799.0	2791.7	2707.2	2606.1	2456.4	2314.9	2276.3	2219.4
7.5°	2565.7	2740.2	2798.1	2789.9	2664.9	2535.4	2296.6	2155.1	2088.0	2050.4
10°	2409.5	2611.6	2683.3	2698.0	2613.5	2416.9	2197.3	1970.4	1934.6	1869.4
12.5°	2320.4	2467.4	2511.5	2551.0	2521.6	2374.6	2122.0	1904.3	1854.7	1811.5
15°	2247.9	2335.1	2353.5	2398.5	2416.0	2337.0	2161.5	1976.0	1853.8	1849.2
17.5°	2314.9	2279.1	2212.0	2225.8	2280.9	2337.9	2263.5	2117.4	1998.9	1984.2
20°	2426.1	2268.1	2116.5	2150.5	2196.4	2371.0	2417.8	2314.9	2246.9	2209.3
22.5°	2553.8	2287.4	2086.2	2102.7	2190.0	2445.4	2667.7	2610.7	2483.9	2429.8
25°	2789.9	2340.6	2110.1	2121.1	2240.5	2549.2	2893.7	2935.9	2860.6	2849.6
27.5°	3020.4	2478.4	2162.4	2137.6	2266.2	2650.2	3030.5	3257.4	3125.1	3099.4
30°	3138.0	2590.5	2240.5	2198.3	2372.8	2711.8	3113.2	3466.9	3351.1	3339.2
32.5°	3318.1	2692.5	2301.1	2246.9	2432.5	2788.0	3267.5	3695.6	3583.5	3523.8
35°	3393.4	2803.6	2434.3	2371.0	2603.4	2894.6	3346.5	3899.5	3864.6	3806.8
37.5°	3538.5	2923.0	2591.4	2587.8	2810.1	3033.3	3488.9	4177.0	4170.5	4070.4
40°	3550.5	3053.5	2839.5	2955.2	3129.7	3274.9	3613.9	4254.1	4358.9	4290.9
42.5°	3568.8	3282.2	3268.5	3364.0	3513.7	3482.5	3618.4	4272.5	4432.3	4391.9
45°	3577.1	3511.0	3704.8	3881.2	3943.6	3754.4	3575.3	4237.6	4470.9	4369.9
47.5°	3511.0	3707.6	4057.5	4398.4	4416.7	3921.6	3556.9	4201.8	4493.9	4426.8
50°	3520.2	3830.6	4362.5	4667.5	4600.5	4069.5	3528.4	4179.7	4481.9	4436.9
52°	3498.1	3833.4	4405.7	4662.0	4615.1	3987.7	3479.7	4095.2	4470.9	4503.1
52.5°	3522.9	3816.9	4360.7	4665.7	4605.0	4028.2	3473.3	4142.1	4477.4	4412.1
55°	3437.5	3620.3	4097.0	4226.6	4217.4	3656.1	3275.8	3986.8	4309.2	4310.2
57.5°	3106.8	3138.0	3213.3	3210.6	3168.3	2874.4	2801.8	3666.2	3841.7	3746.1
60°	2737.5	2297.5	2094.5	2011.8	1964.9	1917.2	2478.4	3353.9	3370.4	3330.0
62.5°	2365.4	1592.9	1322.8	1299.8	1310.9	1485.4	2395.8	3229.9	3130.7	3043.4
65°	1908.9	1161.1	960.9	930.6	1038.0	1226.4	1939.2	2476.6	2324.1	2251.5
67.5°	1198.8	847.0	649.5	592.5	722.0	844.2	1274.1	1556.1	1385.3	1285.1
70°	711.0	473.1	294.0	263.6	296.7	450.1	713.8	776.2	642.1	590.7
72.5°	280.2	173.6	81.8	69.8	72.6	158.0	262.7	256.3	193.8	172.7
75°	75.3	52.4	28.5	23.0	19.3	29.4	42.3	27.6	10.1	12.9
77.5°	34.9	31.2	24.8	19.3	14.7	11.0	5.5	1.8	1.8	0.9
80°	30.3	26.6	23.0	19.3	14.7	9.2	4.6	0.9	0.9	0.9
82.5°	28.5	24.8	21.1	17.5	13.8	9.2	4.6	0.9	0.0	0.0
85°	11.9	15.6	17.5	16.5	14.7	9.2	4.6	0.9	0.0	0.0
87.5°	6.4	5.5	4.6	3.7	2.8	1.8	1.8	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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