

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: P526807

Luminaire Tested: **GALN-SA1D-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526807
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-SA1D-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 4031 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

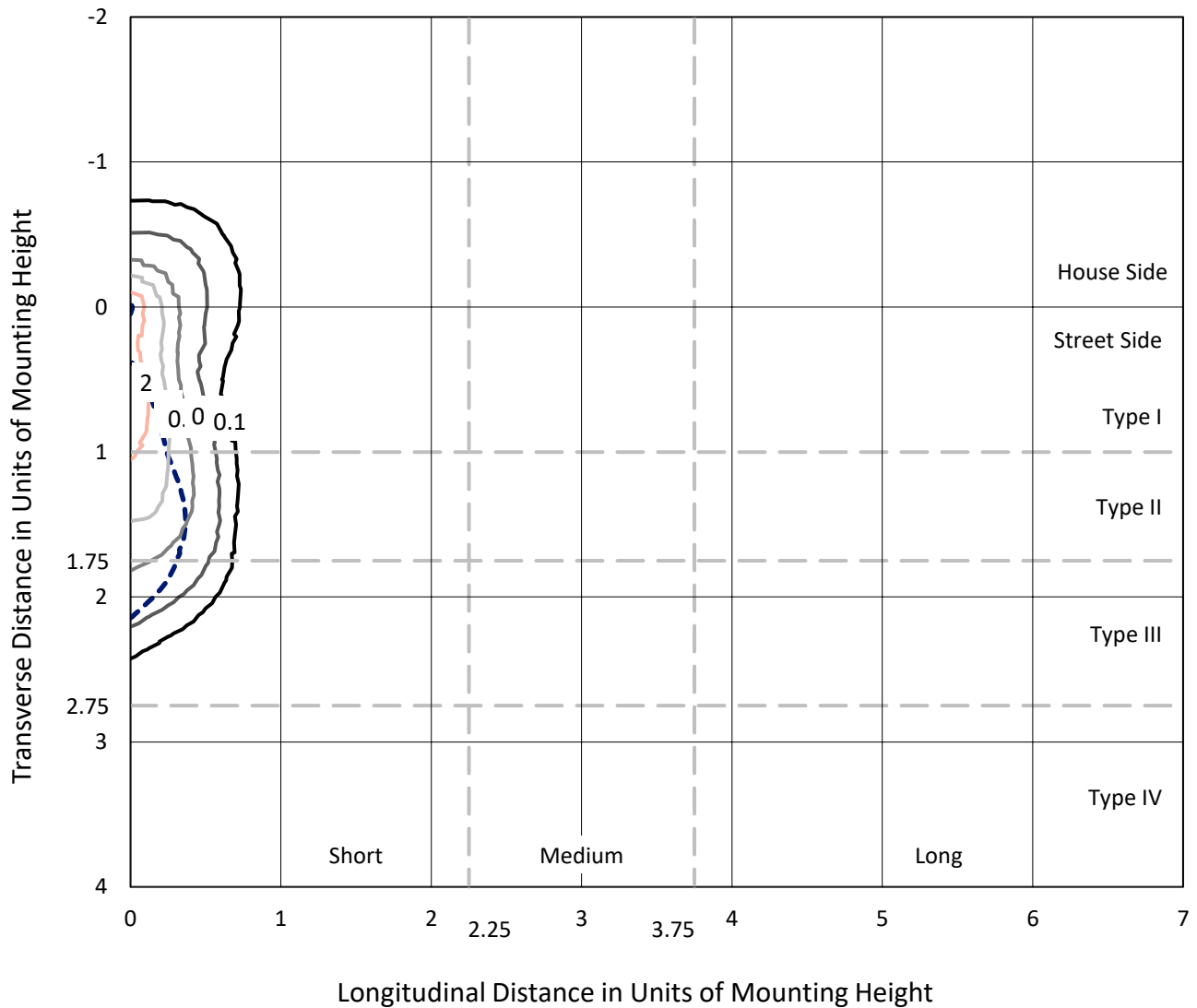
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

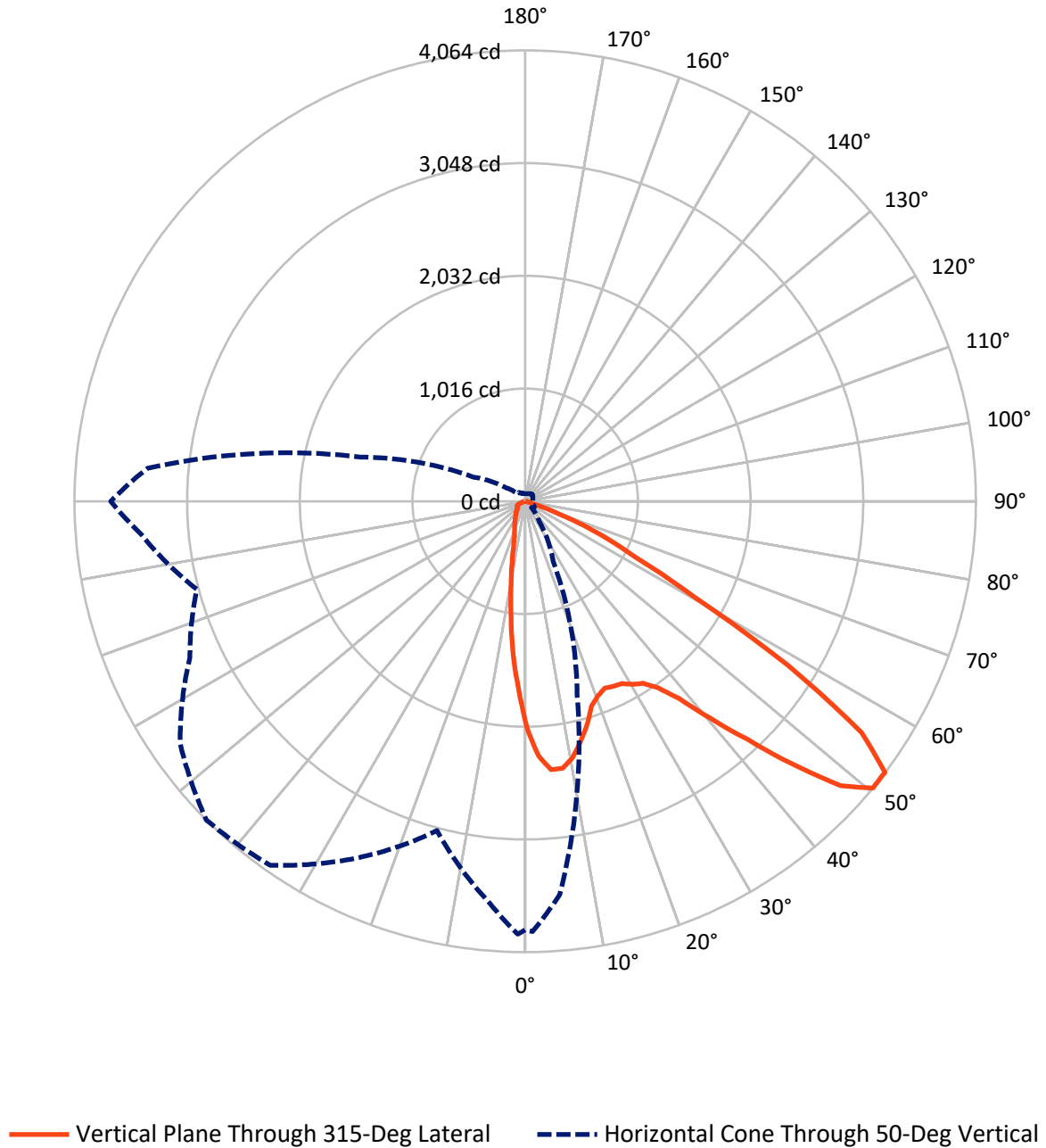
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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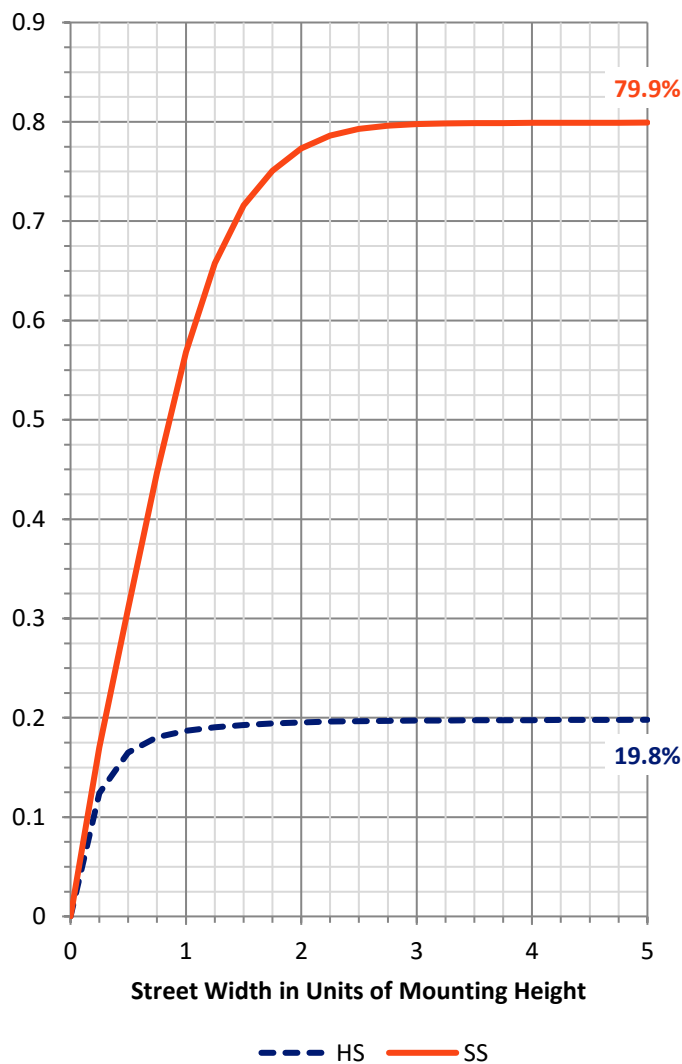
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.4	0.0	807.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3223.6	0.0	3223.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	4031.0	0.0	4031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.7
10°-20°	296.1	7.3
20°-30°	444.9	11.0
30°-40°	667.8	16.6
40°-50°	938.5	23.3
50°-60°	1012.3	25.1
60°-70°	470.0	11.7
70°-80°	44.2	1.1
80°-90°	8.2	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°	4031.0	100.0
0°-180°	4031.0	100.0

Coefficient of Utilization



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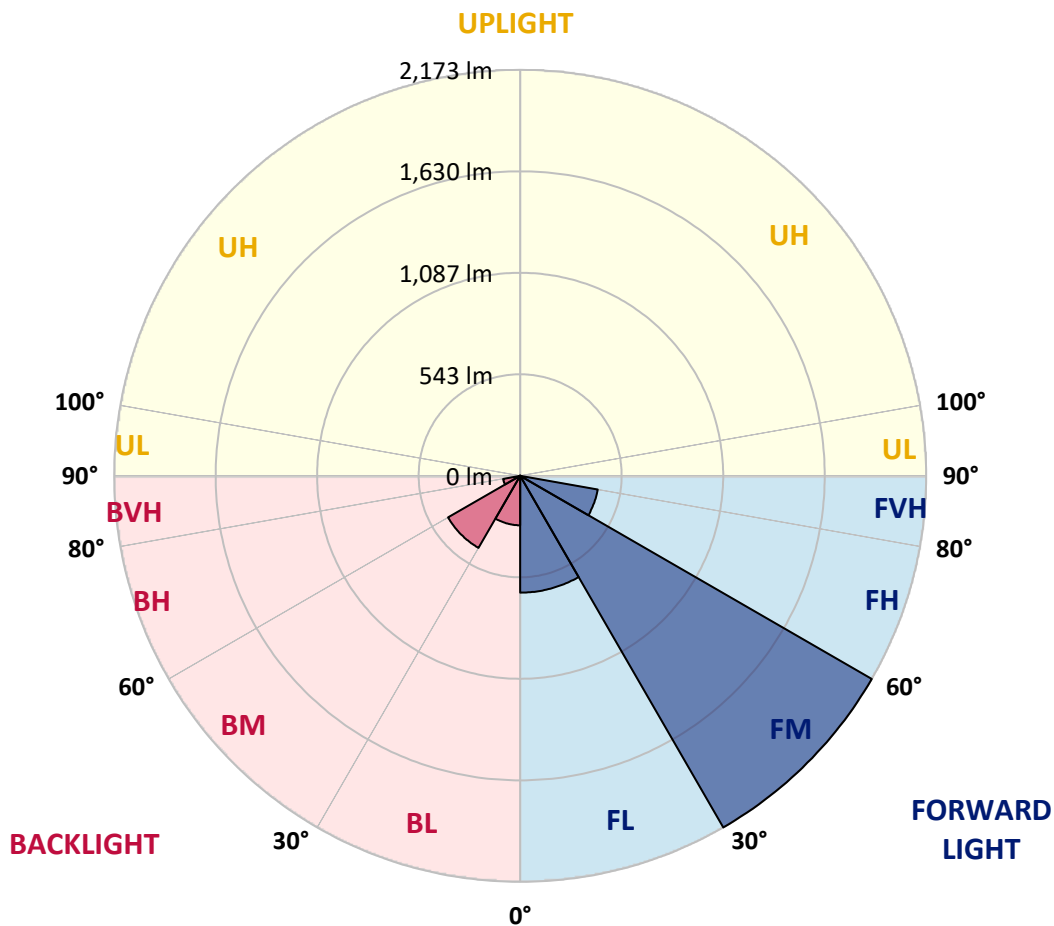
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.4	15.5			
FM (30°-60°)	2173.0	53.9			
FH (60°-80°)	421.5	10.5			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	264.6	6.6	B1/500		
BM (30°-60°)	445.6	11.1	B1/1000		
BH (60°-80°)	92.7	2.3	B0/110		G0/110
BVH (80°-90°)	4.5	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°	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2
2.5°	2125.0	2092.2	2050.6	2016.2	1965.0	1861.9	1833.9	1800.3	1772.3	1734.7	1681.9
5°	1932.3	1921.9	1902.7	1773.1	1679.5	1554.8	1452.4	1409.2	1352.4	1306.0	1272.4
7.5°	1785.1	1743.5	1682.7	1552.4	1402.8	1269.2	1155.7	1089.3	1014.1	988.5	942.9
10°	1627.5	1637.1	1547.6	1364.4	1183.7	1075.7	1005.3	941.3	873.4	828.6	763.8
12.5°	1577.2	1546.0	1477.2	1250.8	1096.5	995.7	910.1	831.0	759.0	687.0	624.6
15°	1609.9	1562.0	1466.0	1226.9	1029.3	903.7	796.6	689.4	623.0	531.1	466.3
17.5°	1727.5	1689.1	1560.4	1252.4	994.9	815.8	656.6	546.2	444.7	361.5	328.7
20°	1923.5	1869.1	1707.5	1285.2	943.7	709.4	532.7	396.7	300.7	265.5	247.1
22.5°	2115.4	2085.8	1881.9	1348.4	898.1	615.0	399.9	267.1	224.7	218.3	206.3
25°	2480.9	2392.1	2148.2	1462.8	863.0	526.3	301.5	215.1	190.3	185.5	187.1
27.5°	2698.4	2624.1	2394.5	1538.8	823.8	458.3	255.1	197.5	180.7	170.4	166.4
30°	2907.2	2820.8	2516.9	1583.6	739.8	386.3	226.3	189.5	185.5	170.4	165.6
32.5°	3067.9	2983.2	2693.6	1650.7	705.4	339.9	186.3	148.0	137.6	136.0	150.4
35°	3314.3	3223.9	2844.8	1687.5	679.0	315.9	161.6	132.0	120.0	115.2	116.0
37.5°	3543.8	3482.2	2984.8	1701.9	651.0	308.7	144.8	118.4	108.0	104.8	104.0
40°	3735.7	3598.2	3117.5	1717.1	639.0	295.1	134.4	108.0	100.8	96.0	96.0
42.5°	3823.7	3683.8	3266.3	1708.3	635.8	273.5	134.4	99.2	93.6	88.8	88.0
45°	3804.5	3747.7	3332.7	1704.3	635.8	251.9	122.4	96.8	88.8	82.4	80.8
47.5°	3854.1	3779.7	3415.8	1721.1	623.0	236.7	103.2	101.6	84.0	76.0	74.4
50°	3862.9	3877.3	3560.6	1808.3	595.0	217.5	80.8	100.0	80.8	68.8	67.2
52°	3920.5	3830.9	3604.6	1854.7	565.4	203.1	68.0	85.6	77.6	64.0	62.4
52.5°	3841.3	3899.7	3615.0	1871.5	568.6	193.5	65.6	84.0	76.0	64.0	60.0
55°	3752.5	3808.5	3572.6	1907.5	521.5	152.0	51.2	60.8	68.8	56.0	53.6
57.5°	3261.5	3318.3	3104.7	1746.7	424.7	107.2	42.4	45.6	60.8	52.0	49.6
60°	2899.2	2858.4	2605.7	1457.2	301.5	60.0	33.6	35.2	66.4	48.0	47.2
62.5°	2649.7	2562.5	2177.8	1125.3	183.9	40.0	26.4	27.2	51.2	44.8	44.8
65°	1960.2	1862.7	1446.8	680.6	90.4	28.0	20.0	21.6	32.0	38.4	38.4
67.5°	1118.9	1081.3	699.0	307.1	37.6	17.6	15.2	16.8	24.8	31.2	29.6
70°	514.3	461.5	268.7	64.8	17.6	12.0	12.0	13.6	20.0	23.2	21.6
72.5°	150.4	142.4	65.6	10.4	7.2	7.2	8.0	10.4	15.2	17.6	16.0
75°	11.2	7.2	4.8	3.2	3.2	4.8	6.4	10.4	15.2	16.8	13.6
77.5°	0.8	1.6	0.8	0.8	2.4	4.8	7.2	12.8	20.0	20.8	15.2
80°	0.8	0.8	0.0	0.8	2.4	4.8	8.0	14.4	22.4	24.0	12.8
82.5°	0.0	0.0	0.0	0.8	3.2	6.4	9.6	15.2	20.8	25.6	13.6
85°	0.0	0.0	0.0	0.8	4.8	8.8	11.2	4.0	2.4	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°	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2
2.5°	1719.5	1698.7	1690.7	1697.9	1695.5	1693.1	1737.1	1727.5	1725.9	1740.3	1737.1
5°	1290.8	1254.0	1354.8	1314.0	1356.4	1382.0	1386.8	1389.2	1418.8	1387.6	1428.4
7.5°	919.7	929.3	928.5	955.7	1004.5	1047.7	1073.3	1053.3	1051.7	1047.7	1030.1
10°	735.0	718.2	715.0	708.6	723.8	760.6	791.8	767.0	749.4	773.4	766.2
12.5°	600.6	577.4	564.6	539.0	539.8	564.6	564.6	564.6	582.2	595.8	606.2
15°	460.7	441.5	441.5	415.9	410.3	411.1	423.9	425.5	453.5	461.5	465.5
17.5°	322.3	311.9	323.9	334.3	327.9	329.5	334.3	335.9	339.9	336.7	344.7
20°	247.9	246.3	249.5	267.9	281.5	289.5	283.9	275.9	271.1	259.9	259.9
22.5°	210.3	213.5	219.1	234.3	251.9	256.7	250.3	231.9	217.5	215.9	216.7
25°	187.1	190.3	199.1	208.7	218.3	226.3	219.9	206.3	198.3	191.1	191.1
27.5°	172.8	174.4	179.1	186.3	194.3	200.7	198.3	191.1	182.3	179.1	172.0
30°	161.6	164.0	169.6	171.2	178.3	181.5	177.6	176.0	170.4	166.4	164.0
32.5°	156.0	155.2	159.2	160.8	161.6	164.0	159.2	161.6	160.8	154.4	152.0
35°	117.6	124.0	134.4	143.2	145.6	148.8	148.0	144.8	136.0	128.8	120.0
37.5°	105.6	109.6	115.2	122.4	132.0	136.0	134.4	126.4	116.0	111.2	109.6
40°	97.6	100.0	104.8	109.6	119.2	126.4	120.8	113.6	105.6	101.6	99.2
42.5°	90.4	91.2	93.6	98.4	105.6	116.8	107.2	97.6	94.4	92.0	90.4
45°	82.4	82.4	85.6	88.0	96.0	106.4	96.8	88.0	86.4	84.8	84.0
47.5°	76.0	76.8	78.4	81.6	88.0	95.2	88.8	81.6	77.6	76.8	75.2
50°	68.0	68.8	72.0	75.2	83.2	87.2	83.2	75.2	71.2	68.8	68.8
52°	61.6	64.0	67.2	73.6	79.2	85.6	80.8	72.0	67.2	64.8	63.2
52.5°	60.8	62.4	65.6	72.8	79.2	84.8	80.0	71.2	65.6	64.0	62.4
55°	54.4	56.8	62.4	71.2	78.4	84.8	78.4	70.4	62.4	58.4	56.8
57.5°	52.0	53.6	60.8	72.0	77.6	84.8	78.4	70.4	62.4	55.2	53.6
60°	49.6	52.8	60.8	69.6	76.8	85.6	79.2	69.6	60.8	52.0	52.0
62.5°	47.2	49.6	60.0	68.0	73.6	82.4	76.0	68.0	58.4	49.6	48.8
65°	40.8	44.8	52.8	56.8	63.2	71.2	64.8	59.2	51.2	44.0	43.2
67.5°	31.2	32.8	39.2	44.0	48.0	55.2	52.0	44.8	39.2	33.6	33.6
70°	21.6	23.2	28.0	30.4	34.4	38.4	36.0	30.4	26.4	23.2	22.4
72.5°	15.2	16.0	17.6	19.2	20.8	22.4	21.6	17.6	15.2	14.4	13.6
75°	12.0	13.6	14.4	13.6	12.8	12.0	12.0	10.4	8.8	8.0	8.0
77.5°	12.0	12.8	12.0	10.4	8.8	8.0	7.2	6.4	4.8	4.0	4.8
80°	10.4	10.4	10.4	8.8	8.0	7.2	6.4	5.6	4.8	4.0	4.0
82.5°	11.2	11.2	10.4	8.8	8.8	7.2	7.2	6.4	5.6	4.0	4.0
85°	0.0	0.0	0.0	1.6	4.0	7.2	7.2	6.4	5.6	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.0	4.8	4.8	4.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2
2.5°	1765.9	1796.3	1853.9	1911.5	1946.7	1988.2	2063.4	2103.4	2155.4	2181.0	2231.4
5°	1422.8	1494.8	1520.4	1586.0	1656.3	1726.7	1838.7	1961.8	2064.2	2134.6	2225.8
7.5°	1038.1	1054.9	1154.1	1198.1	1313.2	1441.2	1594.0	1749.1	1878.7	1993.8	2063.4
10°	778.2	839.8	902.1	986.1	1078.9	1210.9	1357.2	1528.4	1696.3	1811.5	1899.5
12.5°	625.4	674.2	757.4	847.8	962.1	1049.3	1196.5	1366.0	1583.6	1696.3	1812.3
15°	473.5	535.8	630.2	723.8	844.6	936.5	1085.3	1298.8	1578.8	1733.9	1833.9
17.5°	351.1	393.5	478.3	583.0	706.2	835.8	1036.5	1291.6	1632.3	1817.1	1920.3
20°	268.7	283.1	336.7	430.3	563.8	733.4	957.3	1322.8	1790.7	2019.4	2124.2
22.5°	217.5	223.9	244.7	309.5	439.1	643.8	919.7	1344.4	1969.0	2261.8	2401.7
25°	189.5	187.9	201.5	229.5	343.1	559.8	871.8	1426.0	2187.4	2546.5	2672.0
27.5°	172.8	172.8	179.1	199.1	284.7	505.5	841.4	1484.4	2407.3	2796.8	2864.8
30°	164.0	165.6	183.9	190.3	236.7	440.7	791.0	1543.6	2617.7	2956.8	3050.3
32.5°	152.0	145.6	141.6	157.6	199.1	382.3	740.6	1568.4	2788.0	3152.7	3232.7
35°	116.8	113.6	118.4	130.4	171.2	332.7	684.6	1596.4	2984.0	3379.8	3395.8
37.5°	105.6	104.8	108.0	118.4	144.0	289.5	644.6	1589.2	3133.5	3567.8	3524.6
40°	97.6	97.6	100.0	108.8	128.8	259.1	603.0	1582.8	3278.3	3778.9	3652.6
42.5°	91.2	91.2	95.2	100.8	122.4	239.1	571.8	1574.0	3399.8	3908.5	3727.8
45°	82.4	84.8	91.2	96.8	124.0	225.5	548.6	1540.4	3441.4	3906.9	3691.8
47.5°	76.0	79.2	85.6	93.6	112.0	221.5	532.7	1510.8	3427.0	3810.9	3579.0
50°	68.8	72.8	81.6	95.2	95.2	213.5	515.9	1537.2	3416.6	3736.5	3471.0
52°	64.0	67.2	78.4	92.8	83.2	196.7	505.5	1588.4	3459.0	3727.0	3423.0
52.5°	63.2	65.6	76.0	91.2	79.2	193.5	498.3	1600.3	3472.6	3703.0	3455.8
55°	56.0	59.2	69.6	71.2	64.8	159.2	475.1	1627.5	3405.4	3655.8	3424.6
57.5°	52.8	54.4	61.6	58.4	56.0	120.0	408.7	1585.2	3024.7	3247.1	3186.3
60°	48.8	50.4	57.6	45.6	47.2	84.0	307.1	1376.4	2428.9	2705.6	2815.2
62.5°	47.2	46.4	54.4	36.8	40.0	60.8	216.7	1118.9	1871.5	2227.4	2416.9
65°	41.6	40.8	39.2	31.2	34.4	47.2	129.6	730.2	1318.8	1685.1	1789.1
67.5°	32.0	33.6	28.8	24.8	28.8	36.8	72.0	327.1	691.8	1010.9	1094.9
70°	22.4	24.0	23.2	21.6	25.6	30.4	41.6	112.0	286.3	531.1	585.4
72.5°	13.6	16.8	17.6	18.4	22.4	26.4	29.6	36.0	76.0	187.9	233.5
75°	8.0	11.2	13.6	16.0	18.4	22.4	24.8	25.6	26.4	35.2	56.8
77.5°	5.6	8.0	12.0	15.2	18.4	22.4	26.4	28.0	26.4	24.8	26.4
80°	4.8	8.0	11.2	14.4	19.2	23.2	26.4	26.4	25.6	22.4	24.0
82.5°	4.8	8.0	12.0	15.2	18.4	22.4	25.6	26.4	24.0	22.4	23.2
85°	5.6	8.8	12.8	16.0	20.0	18.4	16.8	13.6	12.8	10.4	11.2
87.5°	5.6	8.0	8.0	8.8	9.6	9.6	9.6	8.8	7.2	6.4	6.4
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°	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2
2.5°	2233.8	2297.8	2295.4	2297.0	2287.4	2222.6	2191.4	2112.2	2134.6	2125.0
5°	2319.3	2382.5	2436.9	2430.5	2356.9	2269.0	2138.6	2015.4	1981.8	1932.3
7.5°	2233.8	2385.7	2436.1	2428.9	2320.1	2207.4	1999.4	1876.3	1817.9	1785.1
10°	2097.8	2273.8	2336.1	2348.9	2275.4	2104.2	1913.1	1715.5	1684.3	1627.5
12.5°	2020.2	2148.2	2186.6	2221.0	2195.4	2067.4	1847.5	1657.9	1614.7	1577.2
15°	1957.0	2033.0	2049.0	2088.2	2103.4	2034.6	1881.9	1720.3	1613.9	1609.9
17.5°	2015.4	1984.2	1925.9	1937.9	1985.8	2035.4	1970.6	1843.5	1740.3	1727.5
20°	2112.2	1974.6	1842.7	1872.3	1912.3	2064.2	2105.0	2015.4	1956.2	1923.5
22.5°	2223.4	1991.4	1816.3	1830.7	1906.7	2129.0	2322.5	2273.0	2162.6	2115.4
25°	2428.9	2037.8	1837.1	1846.7	1950.7	2219.4	2519.3	2556.1	2490.5	2480.9
27.5°	2629.7	2157.8	1882.7	1861.1	1973.0	2307.4	2638.5	2836.0	2720.8	2698.4
30°	2732.0	2255.4	1950.7	1913.9	2065.8	2360.9	2710.4	3018.4	2917.6	2907.2
32.5°	2888.8	2344.1	2003.4	1956.2	2117.8	2427.3	2844.8	3217.5	3119.9	3067.9
35°	2954.4	2440.9	2119.4	2064.2	2266.6	2520.1	2913.6	3395.0	3364.7	3314.3
37.5°	3080.7	2544.9	2256.2	2253.0	2446.5	2640.9	3037.5	3636.6	3631.0	3543.8
40°	3091.1	2658.5	2472.1	2572.9	2724.8	2851.2	3146.3	3703.8	3794.9	3735.7
42.5°	3107.1	2857.6	2845.6	2928.8	3059.1	3031.9	3150.3	3719.8	3858.9	3823.7
45°	3114.3	3056.7	3225.5	3379.0	3433.4	3268.7	3112.7	3689.4	3892.5	3804.5
47.5°	3056.7	3227.9	3532.6	3829.3	3845.3	3414.2	3096.7	3658.2	3912.5	3854.1
50°	3064.7	3335.1	3798.1	4063.7	4005.3	3543.0	3071.9	3639.0	3902.1	3862.9
52°	3045.5	3337.5	3835.7	4058.9	4018.1	3471.8	3029.5	3565.4	3892.5	3920.5
52.5°	3067.1	3323.1	3796.5	4062.1	4009.3	3507.0	3023.9	3606.2	3898.1	3841.3
55°	2992.8	3151.9	3567.0	3679.8	3671.8	3183.1	2852.0	3471.0	3751.7	3752.5
57.5°	2704.8	2732.0	2797.6	2795.2	2758.4	2502.5	2439.3	3191.9	3344.7	3261.5
60°	2383.3	2000.2	1823.5	1751.5	1710.7	1669.1	2157.8	2920.0	2934.4	2899.2
62.5°	2059.4	1386.8	1151.7	1131.7	1141.3	1293.2	2085.8	2812.0	2725.6	2649.7
65°	1661.9	1010.9	836.6	810.2	903.7	1067.7	1688.3	2156.2	2023.4	1960.2
67.5°	1043.7	737.4	565.4	515.9	628.6	735.0	1109.3	1354.8	1206.1	1118.9
70°	619.0	411.9	255.9	229.5	258.3	391.9	621.4	675.8	559.0	514.3
72.5°	243.9	151.2	71.2	60.8	63.2	137.6	228.7	223.1	168.8	150.4
75°	65.6	45.6	24.8	20.0	16.8	25.6	36.8	24.0	8.8	11.2
77.5°	30.4	27.2	21.6	16.8	12.8	9.6	4.8	1.6	1.6	0.8
80°	26.4	23.2	20.0	16.8	12.8	8.0	4.0	0.8	0.8	0.8
82.5°	24.8	21.6	18.4	15.2	12.0	8.0	4.0	0.8	0.0	0.0
85°	10.4	13.6	15.2	14.4	12.8	8.0	4.0	0.8	0.0	0.0
87.5°	5.6	4.8	4.0	3.2	2.4	1.6	1.6	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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