

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: P526649

Luminaire Tested: **GALN-SA1C-760-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526649
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-SA1C-760-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 3933 lumens
Efficiency: N/A
Efficacy: 69.0 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

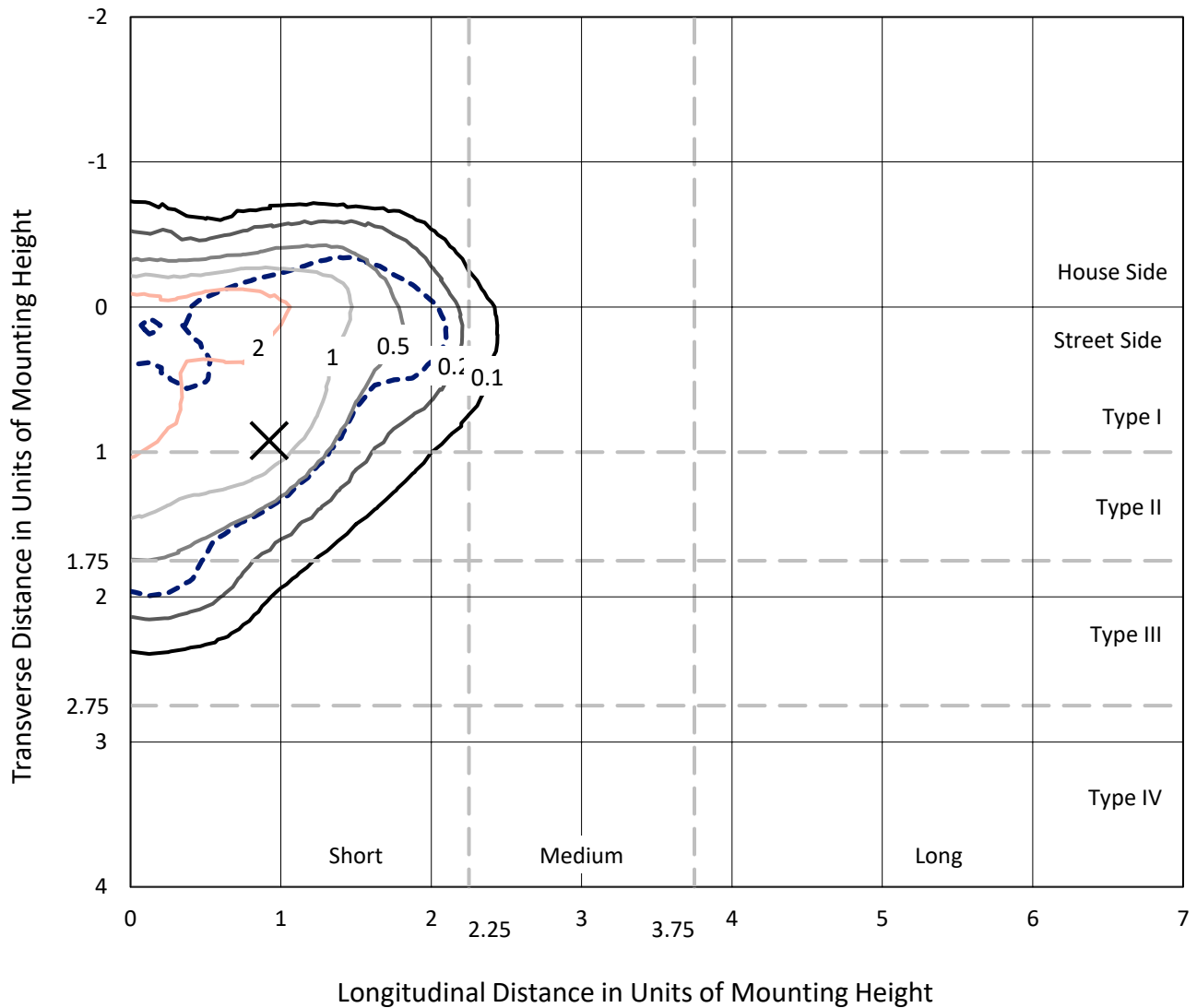
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

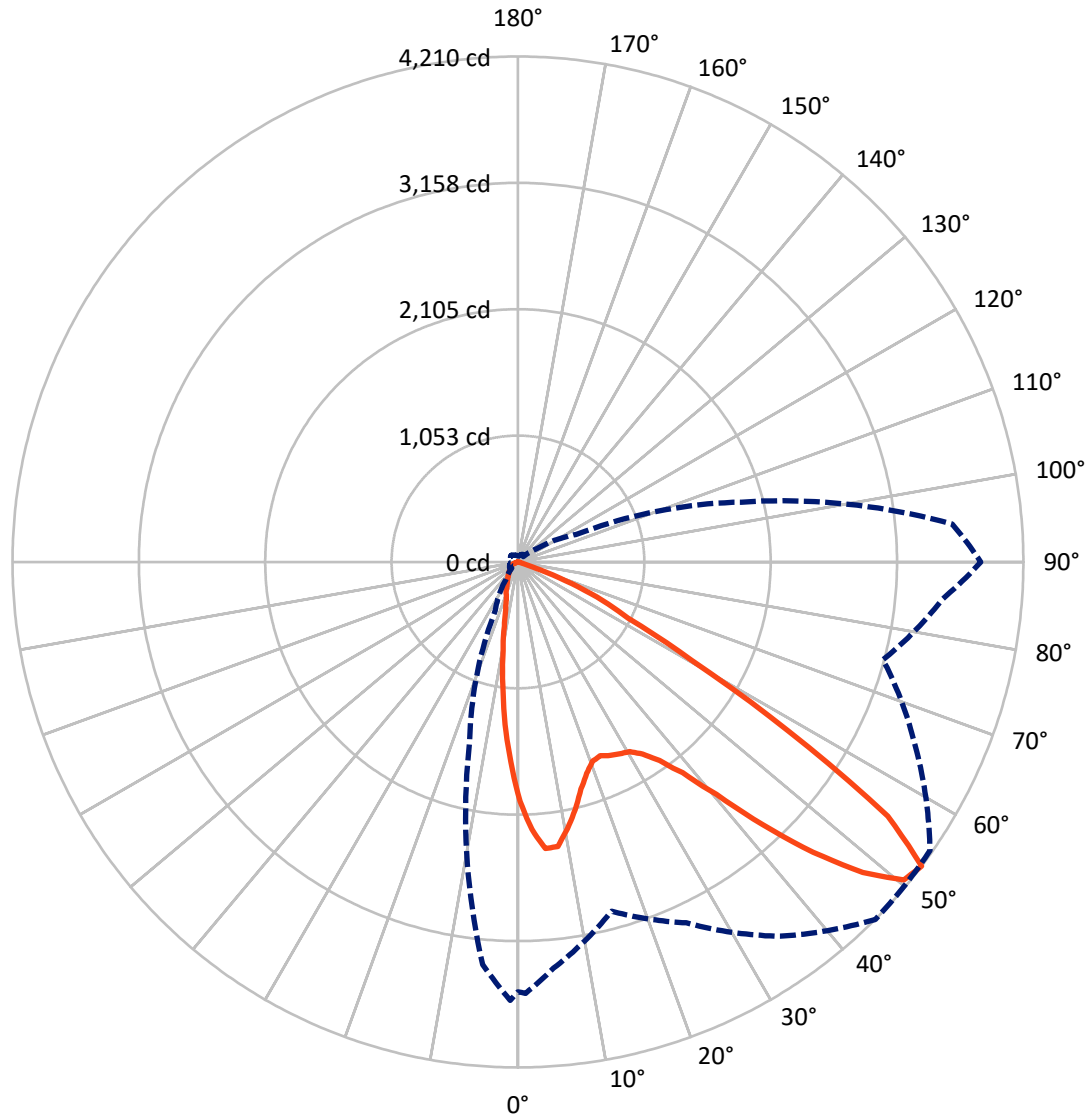
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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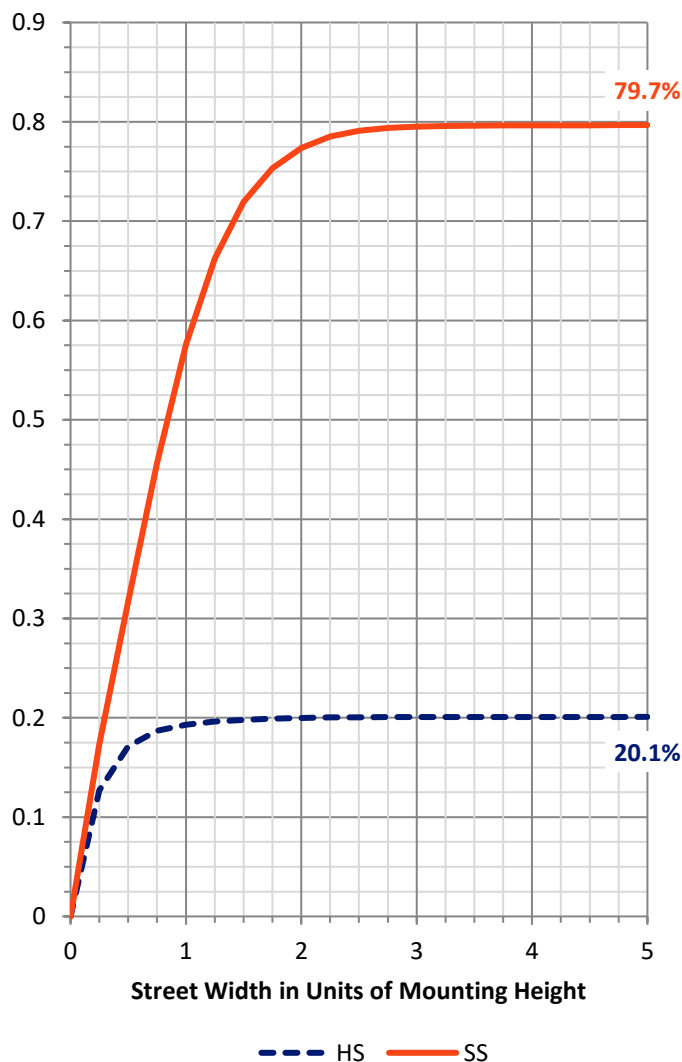
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.2	0.0	798.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3134.8	0.0	3134.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	3933.0	0.0	3933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.7
10°-20°	286.9	7.3
20°-30°	436.7	11.1
30°-40°	652.7	16.6
40°-50°	929.4	23.6
50°-60°	999.1	25.4
60°-70°	442.7	11.3
70°-80°	35.8	0.9
80°-90°	4.2	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°	3933.0	100.0
0°-180°	3933.0	100.0

Coefficient of Utilization

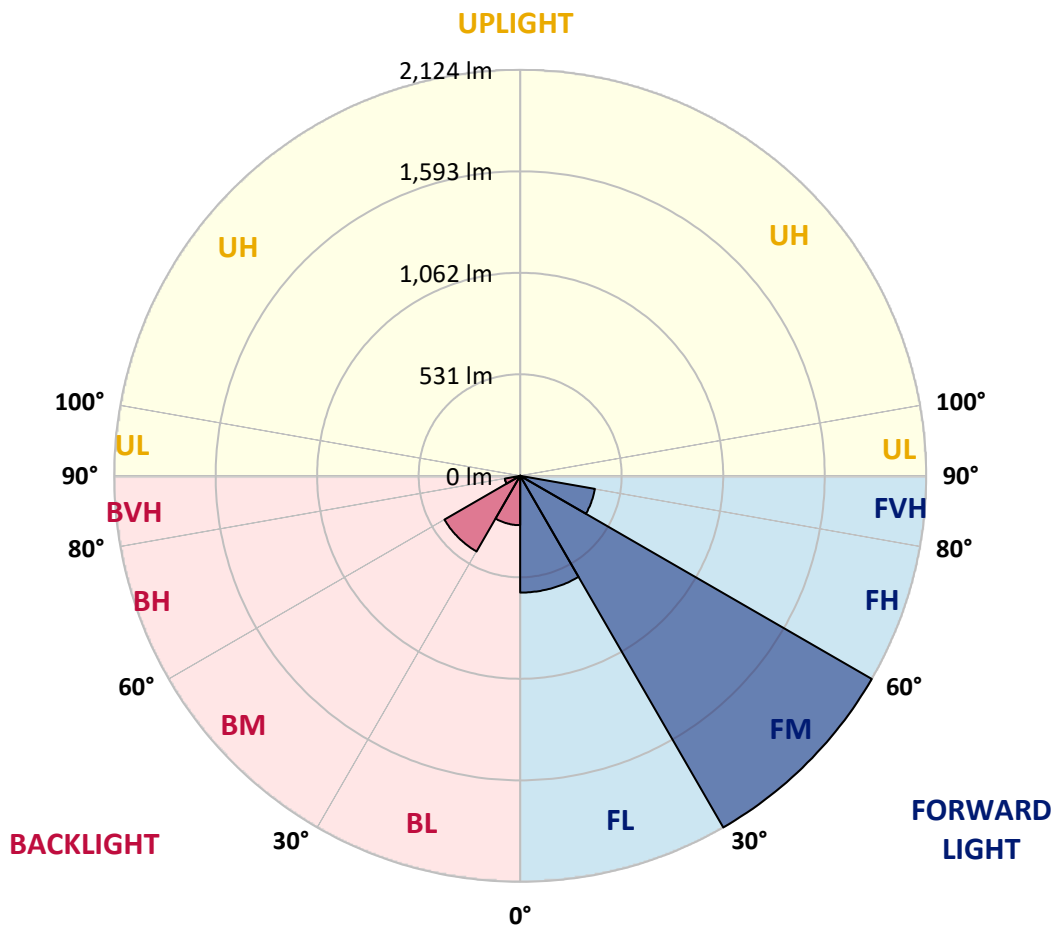


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.9	15.5			
FM (30°-60°)	2123.9	54.0			
FH (60°-80°)	396.9	10.1			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	258.2	6.6	B1/500		
BM (30°-60°)	457.3	11.6	B1/1000		
BH (60°-80°)	81.7	2.1	B0/110		G0/110
BVH (80°-90°)	1.1	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°	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
2.5°	2110.2	2116.4	2150.5	2193.0	2215.4	2266.5	2230.9	2240.2	2220.9	2152.8	2099.4
5°	2046.0	2045.3	2088.6	2193.8	2293.6	2394.9	2398.0	2343.9	2248.7	2144.3	1995.0
7.5°	1852.7	1882.8	1927.7	2095.5	2280.4	2356.2	2392.6	2329.2	2183.0	2033.7	1872.0
10°	1706.5	1721.9	1797.7	2000.4	2135.8	2237.1	2259.5	2223.2	2111.0	1924.6	1743.6
12.5°	1622.1	1629.9	1718.8	1889.0	2032.1	2107.2	2118.0	2135.0	2054.6	1879.7	1662.4
15°	1622.9	1629.1	1749.0	1891.3	1947.8	1927.7	1963.3	1962.5	1997.3	1871.2	1730.4
17.5°	1739.7	1746.7	1855.0	1925.4	1900.6	1853.4	1851.1	1886.7	1960.2	1977.2	1833.3
20°	1940.8	1957.1	2036.8	2032.9	1893.7	1798.5	1772.2	1799.3	1970.2	2066.9	2040.6
22.5°	2211.6	2234.0	2289.7	2183.0	1925.4	1761.4	1752.9	1805.5	2036.8	2267.3	2275.8
25°	2525.6	2563.5	2590.6	2453.7	2038.3	1825.6	1785.4	1875.9	2126.5	2484.6	2575.2
27.5°	2733.7	2773.2	2767.0	2571.3	2114.1	1842.6	1808.6	1892.9	2204.6	2536.5	2731.4
30°	2896.2	2920.2	2963.5	2634.7	2189.9	1890.6	1832.5	1964.8	2230.1	2626.2	2920.2
32.5°	3085.7	3101.9	3105.0	2746.9	2306.7	1950.9	1906.8	2054.6	2343.1	2712.1	3087.2
35°	3276.8	3300.7	3250.5	2885.3	2378.7	2063.1	2030.6	2210.0	2433.6	2801.0	3271.3
37.5°	3484.1	3496.4	3380.4	2942.6	2481.6	2245.6	2227.8	2377.9	2590.6	2961.9	3475.6
40°	3658.1	3669.7	3518.9	3013.0	2589.8	2500.9	2546.5	2698.1	2804.1	3066.4	3577.7
42.5°	3754.8	3781.9	3565.3	2974.3	2807.2	2790.2	2992.9	3046.2	3051.7	3095.8	3669.0
45°	3781.1	3768.7	3488.7	3006.0	2997.5	3265.9	3450.0	3520.4	3297.6	3149.9	3692.2
47.5°	3659.7	3675.9	3375.8	2978.2	3247.4	3626.4	3864.7	3995.4	3481.0	3102.7	3634.9
50°	3561.4	3540.5	3339.4	2958.1	3314.7	3796.6	4164.0	4193.4	3649.6	3160.7	3572.3
52.5°	3580.8	3593.9	3397.4	3011.4	3316.2	3806.6	4210.4	4190.3	3655.0	3147.6	3549.8
55°	3621.8	3563.7	3372.7	2893.9	3094.2	3525.8	3737.0	3706.1	3373.5	3007.6	3494.9
57.5°	3125.1	3214.9	3101.2	2583.7	2539.6	2656.4	2652.5	2747.7	2516.4	2588.3	3181.6
60°	2536.5	2551.9	2594.5	2210.0	1757.5	1717.3	1661.6	1601.3	1693.3	2213.1	2893.9
62.5°	2230.9	2212.4	2364.0	2010.5	1240.8	1038.9	1029.6	1066.7	1306.5	2111.0	2714.4
65°	1621.4	1644.6	1754.4	1560.3	931.4	792.9	779.0	888.8	1057.4	1691.8	2071.6
67.5°	990.1	1035.0	1045.1	962.3	632.0	502.0	481.9	581.7	763.5	1094.6	1214.5
70°	457.2	511.3	562.4	525.2	365.9	206.5	194.9	244.4	385.2	629.7	644.4
72.5°	138.5	139.2	194.9	203.4	118.4	46.4	41.0	54.1	130.7	208.1	218.9
75°	10.1	10.8	26.3	30.2	22.4	11.6	12.4	14.7	27.8	46.4	34.8
77.5°	0.8	0.8	0.8	3.9	7.0	7.7	10.1	11.6	14.7	17.0	15.5
80°	0.8	0.0	0.8	3.1	5.4	7.7	9.3	10.8	11.6	13.2	11.6
82.5°	0.0	0.0	0.0	2.3	5.4	7.7	8.5	11.6	13.2	15.5	13.2
85°	0.0	0.0	0.0	2.3	5.4	8.5	7.7	3.9	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°	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
2.5°	2108.7	2078.5	2009.7	1974.9	1892.9	1881.3	1800.8	1787.7	1760.6	1745.9	1710.3
5°	1929.2	1892.9	1780.7	1686.3	1576.5	1499.9	1441.1	1387.8	1356.8	1328.2	1341.3
7.5°	1783.0	1677.1	1552.5	1394.7	1267.8	1185.9	1096.1	1022.6	979.3	949.9	956.9
10°	1629.9	1561.0	1387.8	1210.6	1057.4	999.4	929.0	872.6	811.5	758.9	734.1
12.5°	1581.9	1479.8	1262.4	1082.2	966.2	909.7	829.2	764.3	686.1	621.9	599.5
15°	1590.4	1492.2	1228.4	1035.8	898.9	801.4	705.5	625.0	539.2	494.3	471.1
17.5°	1728.9	1558.7	1250.8	987.1	805.3	669.9	551.5	449.4	385.2	338.8	328.8
20°	1899.1	1702.6	1298.8	951.5	728.7	533.0	403.0	314.8	261.5	253.7	251.4
22.5°	2148.2	1937.7	1401.7	927.5	635.1	415.4	276.2	229.0	214.3	212.7	213.5
25°	2496.2	2232.5	1513.8	907.4	564.7	320.3	225.9	194.2	189.5	187.2	191.1
27.5°	2647.1	2410.4	1573.4	864.1	500.5	288.5	222.8	192.6	179.5	175.6	177.9
30°	2833.5	2528.7	1667.0	789.8	406.1	237.5	208.1	209.6	203.4	184.1	177.9
32.5°	3081.1	2676.5	1714.2	737.2	362.8	196.5	152.4	140.0	156.3	159.4	164.8
35°	3239.6	2826.6	1738.2	706.3	340.4	167.9	129.2	117.6	113.7	114.5	117.6
37.5°	3534.4	3029.2	1768.3	673.8	323.3	146.2	116.8	106.0	100.6	100.6	103.7
40°	3710.7	3190.1	1809.3	656.0	306.3	133.1	106.0	96.7	92.1	92.1	93.6
42.5°	3754.8	3269.8	1795.4	649.8	287.0	130.0	96.7	89.7	84.3	83.5	82.8
45°	3833.7	3391.2	1797.7	642.8	266.9	118.4	91.3	83.5	75.8	75.0	74.3
47.5°	3920.4	3478.7	1802.4	615.7	247.5	99.0	95.1	77.4	68.1	66.5	66.5
50°	3846.1	3548.3	1842.6	588.7	222.8	80.4	93.6	72.7	60.3	58.0	58.8
52.5°	3855.4	3630.3	1927.7	550.8	191.8	64.2	75.8	68.8	54.9	51.1	51.8
55°	3706.9	3543.6	1939.3	510.5	150.1	49.5	58.0	60.3	46.4	44.9	44.9
57.5°	3190.9	3000.6	1711.1	413.8	99.0	41.0	41.8	52.6	40.2	38.7	39.5
60°	2730.6	2408.8	1376.9	273.1	61.9	32.5	30.2	53.4	35.6	34.8	37.1
62.5°	2489.3	1979.5	1044.3	169.4	42.5	24.8	20.9	43.3	30.9	30.9	34.0
65°	1798.5	1329.7	607.2	89.0	30.2	19.3	15.5	24.8	25.5	26.3	27.8
67.5°	1113.9	671.4	256.0	43.3	20.1	13.2	10.1	15.5	17.0	17.0	18.6
70°	550.0	267.6	85.1	24.8	15.5	10.8	7.0	8.5	8.5	7.7	8.5
72.5°	170.2	80.4	21.7	15.5	10.8	7.0	3.9	3.1	1.5	0.0	0.8
75°	19.3	15.5	13.9	10.8	7.0	3.1	0.8	0.0	0.0	0.0	0.0
77.5°	11.6	13.2	13.2	10.8	7.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	9.3	10.1	10.8	10.1	6.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	13.2	14.7	13.2	8.5	3.9	1.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.3	0.8	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°	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
2.5°	1695.6	1678.6	1702.6	1667.0	1666.2	1667.0	1656.9	1647.7	1662.4	1701.8	1705.7
5°	1294.2	1330.5	1342.1	1380.0	1359.1	1328.2	1334.4	1313.5	1364.5	1387.0	1369.2
7.5°	942.2	939.9	1018.0	1022.6	1032.7	1033.5	1031.9	990.9	949.1	958.4	986.3
10°	731.0	691.6	729.5	725.6	750.3	743.4	753.4	709.3	724.0	724.0	741.8
12.5°	595.6	553.9	546.9	536.8	546.9	550.8	554.6	546.1	570.9	582.5	594.9
15°	454.8	431.6	425.5	406.1	409.2	420.0	429.3	433.2	425.5	443.2	444.8
17.5°	330.3	329.5	333.4	332.6	329.5	327.2	326.4	316.4	313.3	314.8	321.0
20°	250.6	256.8	270.0	283.1	290.1	281.6	270.0	253.0	246.0	247.5	248.3
22.5°	214.3	223.6	241.3	256.0	263.0	247.5	226.7	212.0	208.9	208.1	207.3
25°	194.2	205.0	218.1	222.8	222.0	212.7	197.3	191.1	189.5	188.0	181.0
27.5°	183.3	187.2	189.5	194.9	197.3	191.1	187.2	177.9	176.4	176.4	171.7
30°	177.1	174.8	177.9	174.0	177.1	172.5	173.3	173.3	169.4	171.0	171.0
32.5°	164.8	165.5	165.5	157.8	160.1	154.7	160.1	164.8	165.5	166.3	172.5
35°	120.7	134.6	141.6	141.6	143.9	140.0	139.2	133.8	126.9	119.9	116.8
37.5°	106.0	111.4	120.7	126.1	130.0	126.9	119.9	111.4	107.5	104.4	101.3
40°	94.4	99.0	105.2	111.4	119.1	115.3	104.4	100.6	95.9	95.9	92.8
42.5°	85.1	87.4	91.3	100.6	109.1	101.3	93.6	90.5	88.2	87.4	86.6
45°	76.6	77.4	81.2	89.0	99.0	91.3	83.5	79.7	80.4	81.2	80.4
47.5°	68.8	70.4	72.7	82.0	88.2	84.3	75.8	73.5	73.5	73.5	74.3
50°	59.6	63.4	68.1	75.8	80.4	78.1	71.2	68.1	66.5	66.5	67.3
52.5°	53.4	56.5	62.7	71.9	78.1	74.3	67.3	62.7	59.6	58.8	60.3
55°	46.4	51.8	61.9	68.8	77.4	73.5	65.8	60.3	54.9	54.1	54.1
57.5°	41.8	50.3	59.6	68.1	75.0	71.9	65.8	58.8	51.8	51.1	51.1
60°	39.5	48.7	58.0	65.8	75.0	70.4	65.0	57.2	49.5	49.5	48.7
62.5°	37.1	45.6	54.9	62.7	71.9	68.1	62.7	54.9	47.2	47.2	45.6
65°	30.9	39.5	45.6	52.6	62.7	58.8	53.4	48.0	41.8	40.2	41.0
67.5°	21.7	27.1	33.3	40.2	46.4	44.9	42.5	38.7	33.3	32.5	31.7
70°	10.8	14.7	20.1	27.1	32.5	30.9	29.4	26.3	23.2	22.4	22.4
72.5°	1.5	4.6	8.5	12.4	17.0	17.8	17.0	16.2	15.5	14.7	15.5
75°	0.0	0.0	0.0	3.1	7.0	8.5	10.1	11.6	11.6	10.1	12.4
77.5°	0.0	0.0	0.0	0.0	0.8	3.9	7.7	10.1	12.4	10.8	14.7
80°	0.0	0.0	0.0	0.0	0.8	4.6	7.7	10.8	12.4	10.8	15.5
82.5°	0.0	0.0	0.0	0.0	0.8	5.4	7.7	10.1	11.6	10.8	13.9
85°	0.0	0.0	0.0	0.0	2.3	4.6	3.1	1.5	0.8	0.8	2.3
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°	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2	1994.2
2.5°	1727.3	1782.3	1841.1	1863.5	1933.1	1985.7	2021.3	2097.9	2109.5	2110.2
5°	1387.8	1415.6	1516.2	1563.3	1667.0	1747.5	1833.3	1957.1	2039.9	2046.0
7.5°	986.3	1063.6	1106.2	1229.2	1356.8	1482.9	1610.5	1754.4	1850.3	1852.7
10°	793.7	843.9	919.8	1011.8	1119.3	1247.7	1417.9	1585.0	1682.5	1706.5
12.5°	639.0	727.1	813.8	908.9	990.9	1087.6	1270.9	1493.7	1574.2	1622.1
15°	492.0	572.4	674.5	785.9	878.8	1007.9	1216.8	1471.3	1606.7	1622.9
17.5°	362.8	434.7	529.1	634.3	773.6	956.9	1226.1	1585.0	1712.6	1739.7
20°	260.7	302.5	376.7	498.9	676.1	897.3	1235.4	1700.3	1894.4	1940.8
22.5°	206.5	223.6	272.3	380.6	567.0	834.7	1301.1	1920.7	2144.3	2211.6
25°	179.5	188.7	212.0	300.1	498.2	828.5	1406.3	2185.3	2476.9	2525.6
27.5°	173.3	174.8	194.9	275.4	461.0	787.5	1446.5	2373.3	2684.2	2733.7
30°	182.6	207.3	208.9	232.8	392.2	706.3	1467.4	2555.0	2859.8	2896.2
32.5°	157.8	150.1	155.5	180.2	345.0	659.1	1506.9	2713.6	3060.2	3085.7
35°	109.8	115.3	127.6	156.3	301.7	609.6	1516.9	2888.4	3250.5	3276.8
37.5°	101.3	104.4	114.5	133.1	265.3	581.7	1503.0	3016.1	3447.7	3484.1
40°	94.4	98.2	103.7	120.7	238.3	550.8	1483.7	3131.3	3568.4	3658.1
42.5°	89.0	92.1	96.7	115.3	215.0	519.8	1456.6	3293.8	3676.7	3754.8
45°	82.8	87.4	92.8	112.2	201.9	498.9	1436.5	3283.7	3739.3	3781.1
47.5°	76.6	84.3	90.5	104.4	198.0	488.9	1445.0	3245.8	3688.3	3659.7
50°	70.4	80.4	91.3	86.6	188.7	468.8	1455.0	3297.6	3566.8	3561.4
52.5°	65.0	76.6	85.1	71.2	167.9	449.4	1552.5	3365.7	3652.7	3580.8
55°	57.2	68.8	68.1	57.2	136.1	434.7	1629.1	3367.3	3594.7	3621.8
57.5°	51.8	61.1	53.4	48.0	100.6	363.6	1504.6	2823.5	3077.2	3125.1
60°	48.0	59.6	40.2	37.9	65.8	262.2	1313.5	2186.8	2446.0	2536.5
62.5°	44.1	56.5	31.7	30.9	45.6	186.4	1079.9	1830.2	2107.9	2230.9
65°	38.7	40.2	25.5	24.0	32.5	100.6	657.5	1260.1	1575.7	1621.4
67.5°	31.7	30.9	20.9	19.3	21.7	48.7	290.1	631.2	913.6	990.1
70°	25.5	25.5	17.8	15.5	15.5	22.4	75.8	251.4	413.1	457.2
72.5°	18.6	19.3	13.9	12.4	11.6	10.8	12.4	50.3	108.3	138.5
75°	16.2	17.0	13.9	10.8	8.5	7.0	5.4	4.6	6.2	10.1
77.5°	17.8	17.8	14.7	10.1	7.7	5.4	3.1	1.5	1.5	0.8
80°	22.4	23.2	19.3	13.2	9.3	6.2	3.9	1.5	0.8	0.8
82.5°	24.0	26.3	21.7	16.2	11.6	7.0	3.9	0.8	0.0	0.0
85°	6.2	10.1	17.0	14.7	11.6	7.0	3.9	0.8	0.0	0.0
87.5°	0.0	0.8	2.3	2.3	3.1	3.1	2.3	0.8	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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