

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: P526755

Luminaire Tested: **GALN-SA1D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526755
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-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 3619 lumens
Efficiency: N/A
Efficacy: 55.7 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

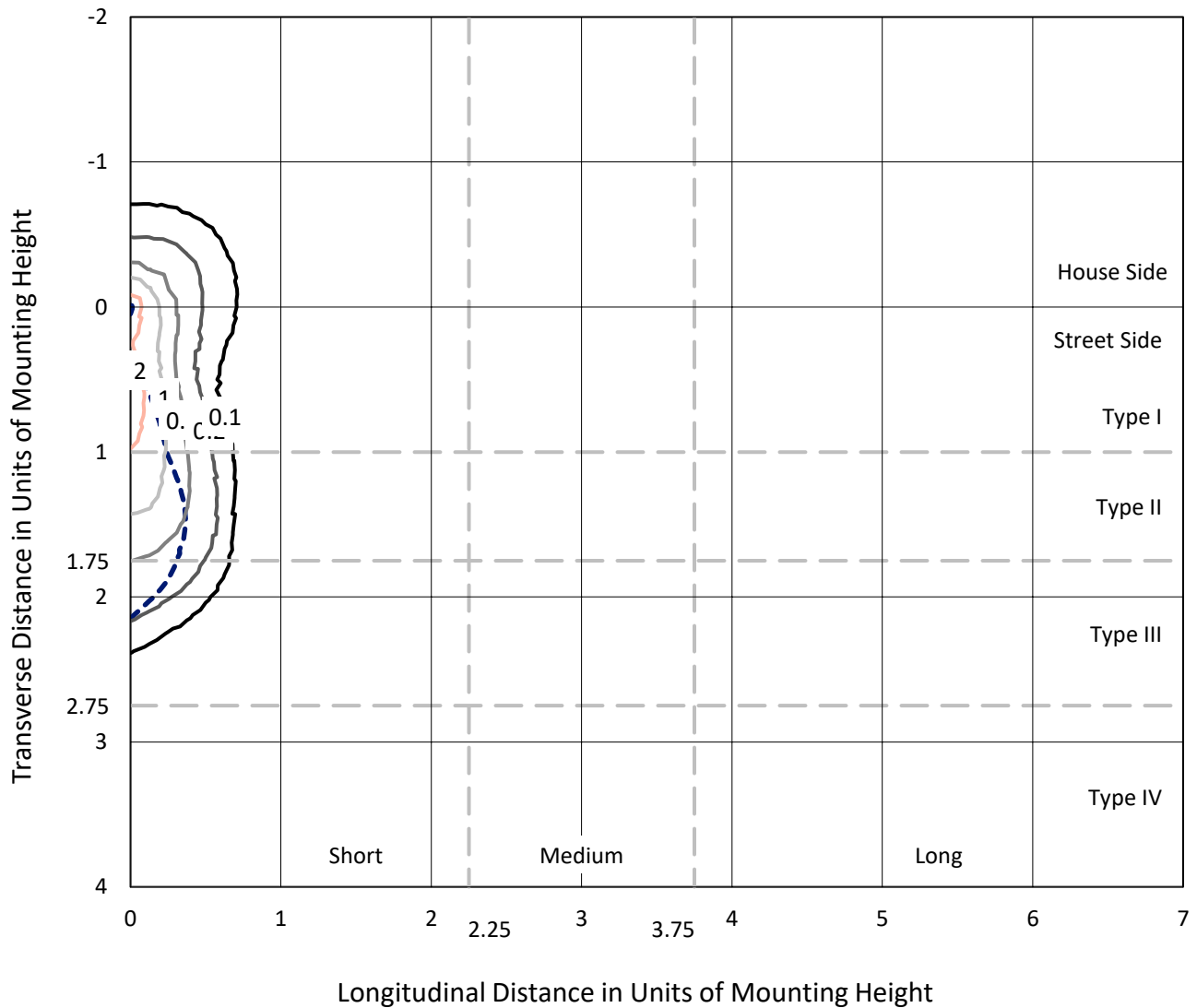
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

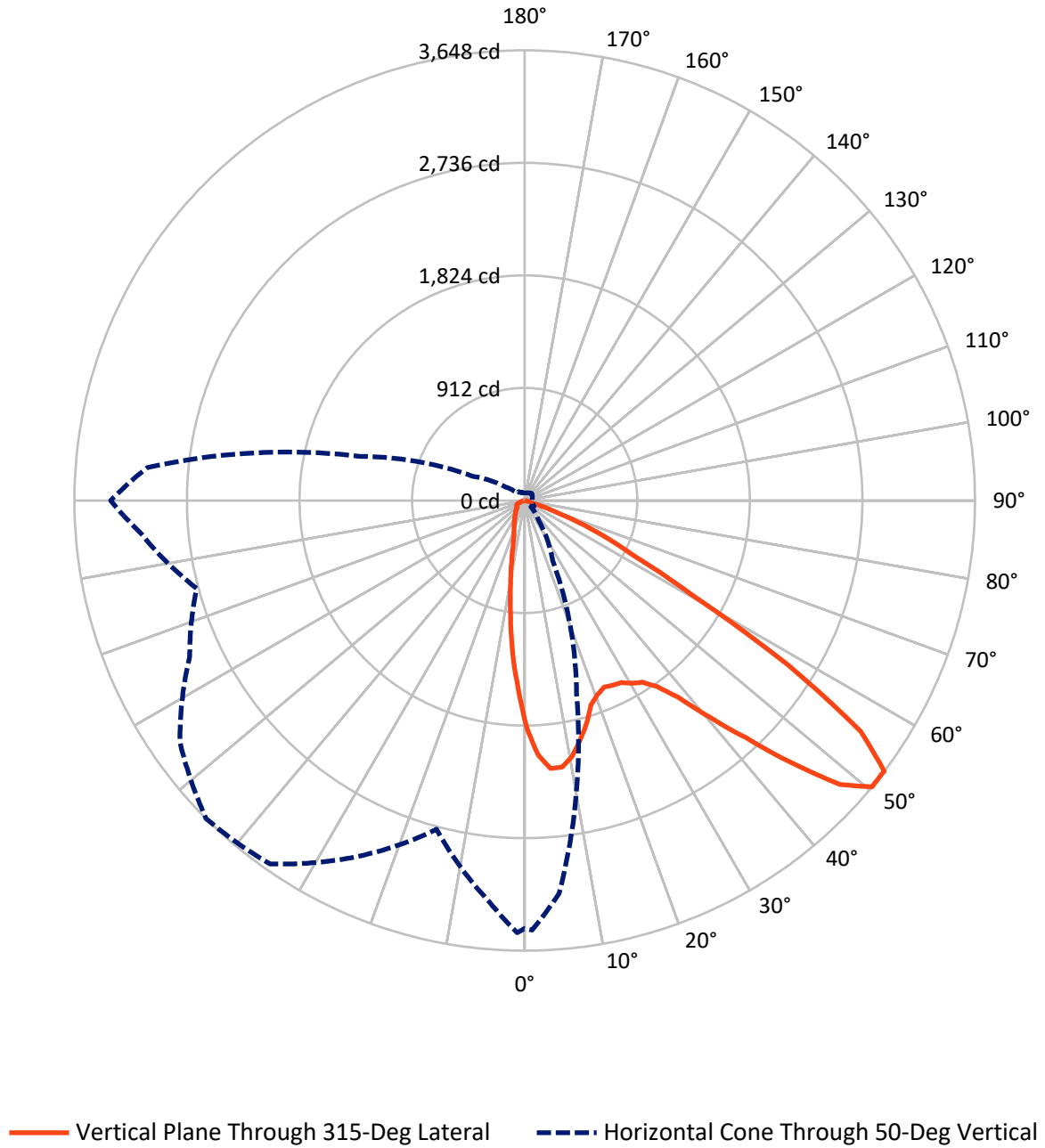
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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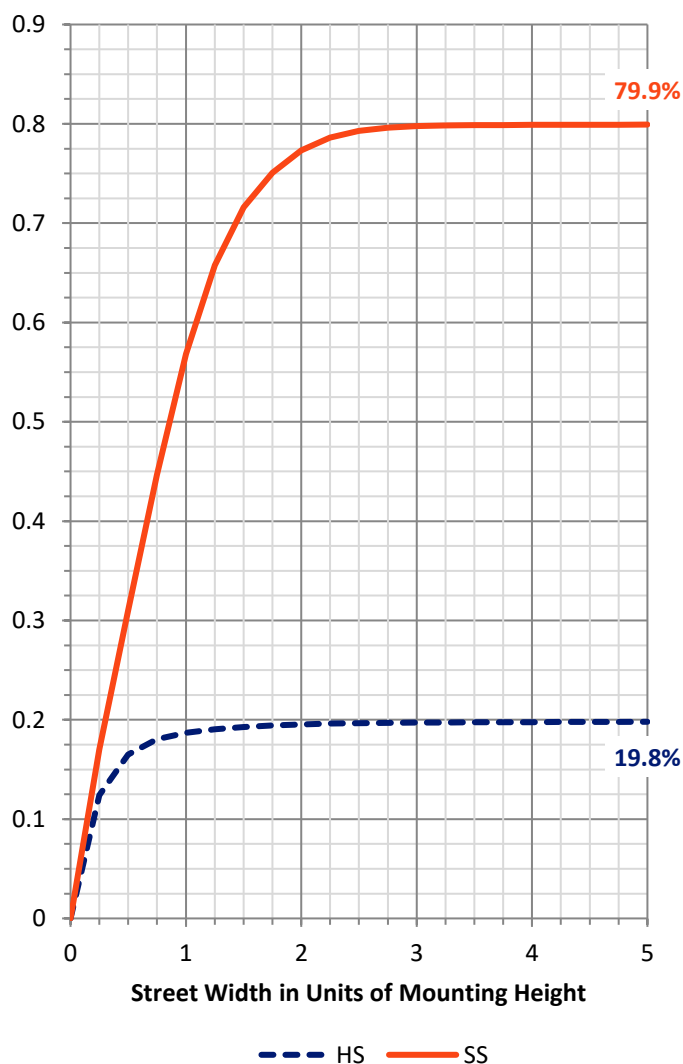
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	724.9	0.0	724.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2894.1	0.0	2894.1
	% Fixture	80.0	0.0	80.0
Total	Lumens	3619.0	0.0	3619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	3.7
10°-20°	265.9	7.3
20°-30°	399.4	11.0
30°-40°	599.5	16.6
40°-50°	842.6	23.3
50°-60°	908.9	25.1
60°-70°	422.0	11.7
70°-80°	39.7	1.1
80°-90°	7.3	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°	3619.0	100.0
0°-180°	3619.0	100.0

Coefficient of Utilization



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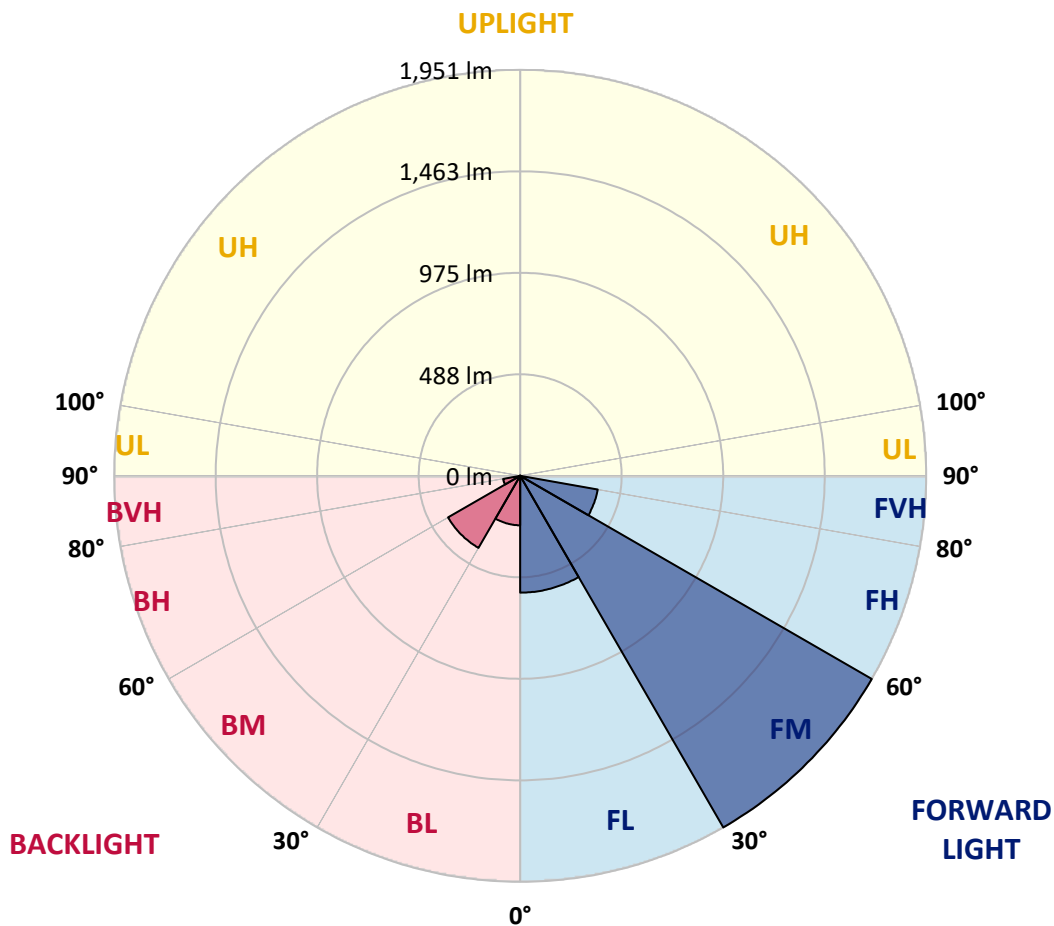
CATALOG NUMBER: GALN-SA1D-727-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.5	15.5			
FM (30°-60°)	1950.9	53.9			
FH (60°-80°)	378.5	10.5			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	237.6	6.6	B1/500		
BM (30°-60°)	400.0	11.1	B1/1000		
BH (60°-80°)	83.2	2.3	B0/110		G0/110
BVH (80°-90°)	4.0	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°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1907.8	1878.4	1841.0	1810.2	1764.2	1671.6	1646.4	1616.3	1591.2	1557.4	1510.0
5°	1734.8	1725.4	1708.2	1591.9	1507.9	1395.9	1303.9	1265.2	1214.2	1172.5	1142.4
7.5°	1602.6	1565.3	1510.7	1393.7	1259.4	1139.5	1037.6	978.0	910.5	887.5	846.6
10°	1461.2	1469.8	1389.4	1225.0	1062.7	965.8	902.6	845.1	784.1	743.9	685.7
12.5°	1416.0	1388.0	1326.2	1123.0	984.4	893.9	817.1	746.0	681.4	616.8	560.8
15°	1445.4	1402.3	1316.2	1101.5	924.1	811.4	715.2	618.9	559.3	476.8	418.6
17.5°	1550.9	1516.5	1400.9	1124.4	893.2	732.4	589.5	490.4	399.2	324.6	295.1
20°	1726.9	1678.0	1533.0	1153.9	847.3	636.9	478.2	356.1	270.0	238.4	221.9
22.5°	1899.2	1872.6	1689.5	1210.6	806.3	552.2	359.0	239.8	201.8	196.0	185.3
25°	2227.3	2147.6	1928.6	1313.3	774.8	472.5	270.7	193.2	170.9	166.6	168.0
27.5°	2422.6	2355.9	2149.8	1381.5	739.6	411.4	229.1	177.4	162.3	152.9	149.4
30°	2610.0	2532.5	2259.6	1421.7	664.2	346.8	203.2	170.2	166.6	152.9	148.6
32.5°	2754.4	2678.3	2418.3	1482.0	633.3	305.2	167.3	132.8	123.5	122.1	135.0
35°	2975.5	2894.4	2554.0	1515.0	609.6	283.6	145.0	118.5	107.7	103.4	104.1
37.5°	3181.6	3126.3	2679.7	1528.0	584.5	277.2	130.0	106.3	96.9	94.1	93.3
40°	3353.9	3230.4	2798.9	1541.6	573.7	265.0	120.6	96.9	90.5	86.2	86.2
42.5°	3432.9	3307.3	2932.4	1533.7	570.8	245.6	120.6	89.0	84.0	79.7	79.0
45°	3415.7	3364.7	2992.0	1530.1	570.8	226.2	109.9	86.9	79.7	74.0	72.5
47.5°	3460.2	3393.4	3066.7	1545.2	559.3	212.5	92.6	91.2	75.4	68.2	66.8
50°	3468.1	3481.0	3196.7	1623.5	534.2	195.3	72.5	89.8	72.5	61.8	60.3
52°	3519.8	3439.4	3236.2	1665.1	507.6	182.4	61.0	76.8	69.6	57.4	56.0
52.5°	3448.7	3501.1	3245.5	1680.2	510.5	173.8	58.9	75.4	68.2	57.4	53.9
55°	3369.0	3419.3	3207.4	1712.5	468.2	136.4	46.0	54.6	61.8	50.3	48.1
57.5°	2928.1	2979.1	2787.4	1568.2	381.3	96.2	38.1	40.9	54.6	46.7	44.5
60°	2602.9	2566.2	2339.3	1308.3	270.7	53.9	30.2	31.6	59.6	43.1	42.4
62.5°	2378.8	2300.6	1955.2	1010.3	165.1	35.9	23.7	24.4	46.0	40.2	40.2
65°	1759.9	1672.3	1298.9	611.0	81.1	25.1	18.0	19.4	28.7	34.5	34.5
67.5°	1004.5	970.8	627.6	275.7	33.7	15.8	13.6	15.1	22.3	28.0	26.6
70°	461.7	414.3	241.3	58.2	15.8	10.8	10.8	12.2	18.0	20.8	19.4
72.5°	135.0	127.8	58.9	9.3	6.5	6.5	7.2	9.3	13.6	15.8	14.4
75°	10.1	6.5	4.3	2.9	2.9	4.3	5.7	9.3	13.6	15.1	12.2
77.5°	0.7	1.4	0.7	0.7	2.2	4.3	6.5	11.5	18.0	18.7	13.6
80°	0.7	0.7	0.0	0.7	2.2	4.3	7.2	12.9	20.1	21.5	11.5
82.5°	0.0	0.0	0.0	0.7	2.9	5.7	8.6	13.6	18.7	23.0	12.2
85°	0.0	0.0	0.0	0.7	4.3	7.9	10.1	3.6	2.2	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°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1543.8	1525.1	1517.9	1524.4	1522.2	1520.1	1559.6	1550.9	1549.5	1562.4	1559.6
5°	1158.9	1125.9	1216.3	1179.7	1217.8	1240.8	1245.1	1247.2	1273.8	1245.8	1282.4
7.5°	825.7	834.4	833.6	858.0	901.8	940.6	963.6	945.6	944.2	940.6	924.8
10°	659.9	644.8	641.9	636.2	649.8	682.8	710.9	688.6	672.8	694.3	687.9
12.5°	539.2	518.4	506.9	484.0	484.7	506.9	506.9	506.9	522.7	534.9	544.3
15°	413.6	396.4	396.4	373.4	368.4	369.1	380.6	382.0	407.1	414.3	417.9
17.5°	289.4	280.0	290.8	300.1	294.4	295.8	300.1	301.6	305.2	302.3	309.5
20°	222.6	221.2	224.0	240.5	252.7	259.9	254.9	247.7	243.4	233.4	233.4
22.5°	188.8	191.7	196.7	210.4	226.2	230.5	224.7	208.2	195.3	193.9	194.6
25°	168.0	170.9	178.8	187.4	196.0	203.2	197.5	185.3	178.1	171.6	171.6
27.5°	155.1	156.5	160.8	167.3	174.5	180.2	178.1	171.6	163.7	160.8	154.4
30°	145.0	147.2	152.2	153.7	160.1	163.0	159.4	158.0	152.9	149.4	147.2
32.5°	140.0	139.3	142.9	144.3	145.0	147.2	142.9	145.0	144.3	138.6	136.4
35°	105.6	111.3	120.6	128.5	130.7	133.6	132.8	130.0	122.1	115.6	107.7
37.5°	94.8	98.4	103.4	109.9	118.5	122.1	120.6	113.4	104.1	99.8	98.4
40°	87.6	89.8	94.1	98.4	107.0	113.4	108.4	102.0	94.8	91.2	89.0
42.5°	81.1	81.9	84.0	88.3	94.8	104.8	96.2	87.6	84.7	82.6	81.1
45°	74.0	74.0	76.8	79.0	86.2	95.5	86.9	79.0	77.5	76.1	75.4
47.5°	68.2	68.9	70.4	73.2	79.0	85.4	79.7	73.2	69.6	68.9	67.5
50°	61.0	61.8	64.6	67.5	74.7	78.3	74.7	67.5	63.9	61.8	61.8
52°	55.3	57.4	60.3	66.1	71.1	76.8	72.5	64.6	60.3	58.2	56.7
52.5°	54.6	56.0	58.9	65.3	71.1	76.1	71.8	63.9	58.9	57.4	56.0
55°	48.8	51.0	56.0	63.9	70.4	76.1	70.4	63.2	56.0	52.4	51.0
57.5°	46.7	48.1	54.6	64.6	69.6	76.1	70.4	63.2	56.0	49.5	48.1
60°	44.5	47.4	54.6	62.5	68.9	76.8	71.1	62.5	54.6	46.7	46.7
62.5°	42.4	44.5	53.9	61.0	66.1	74.0	68.2	61.0	52.4	44.5	43.8
65°	36.6	40.2	47.4	51.0	56.7	63.9	58.2	53.1	46.0	39.5	38.8
67.5°	28.0	29.4	35.2	39.5	43.1	49.5	46.7	40.2	35.2	30.2	30.2
70°	19.4	20.8	25.1	27.3	30.9	34.5	32.3	27.3	23.7	20.8	20.1
72.5°	13.6	14.4	15.8	17.2	18.7	20.1	19.4	15.8	13.6	12.9	12.2
75°	10.8	12.2	12.9	12.2	11.5	10.8	10.8	9.3	7.9	7.2	7.2
77.5°	10.8	11.5	10.8	9.3	7.9	7.2	6.5	5.7	4.3	3.6	4.3
80°	9.3	9.3	9.3	7.9	7.2	6.5	5.7	5.0	4.3	3.6	3.6
82.5°	10.1	10.1	9.3	7.9	7.9	6.5	6.5	5.7	5.0	3.6	3.6
85°	0.0	0.0	0.0	1.4	3.6	6.5	6.5	5.7	5.0	4.3	4.3
87.5°	0.0	0.0	0.0	0.0	0.7	1.4	2.9	3.6	4.3	4.3	4.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	1585.4	1612.7	1664.4	1716.1	1747.7	1785.0	1852.5	1888.4	1935.1	1958.1	2003.3
5°	1277.4	1342.0	1365.0	1423.9	1487.0	1550.2	1650.8	1761.3	1853.2	1916.4	1998.3
7.5°	932.0	947.1	1036.1	1075.6	1179.0	1293.9	1431.0	1570.3	1686.7	1790.1	1852.5
10°	698.6	753.9	809.9	885.3	968.6	1087.1	1218.5	1372.2	1522.9	1626.3	1705.3
12.5°	561.5	605.3	680.0	761.1	863.8	942.1	1074.2	1226.4	1421.7	1522.9	1627.1
15°	425.1	481.1	565.8	649.8	758.2	840.8	974.4	1166.1	1417.4	1556.7	1646.4
17.5°	315.2	353.3	429.4	523.4	634.0	750.3	930.6	1159.6	1465.5	1631.4	1724.0
20°	241.3	254.2	302.3	386.3	506.2	658.4	859.5	1187.6	1607.7	1813.0	1907.1
22.5°	195.3	201.0	219.7	277.9	394.2	578.0	825.7	1207.0	1767.8	2030.6	2156.2
25°	170.2	168.7	180.9	206.1	308.0	502.6	782.7	1280.3	1963.8	2286.2	2398.9
27.5°	155.1	155.1	160.8	178.8	255.6	453.8	755.4	1332.7	2161.3	2511.0	2572.0
30°	147.2	148.6	165.1	170.9	212.5	395.6	710.1	1385.8	2350.1	2654.6	2738.6
32.5°	136.4	130.7	127.1	141.5	178.8	343.2	664.9	1408.1	2503.1	2830.5	2902.3
35°	104.8	102.0	106.3	117.0	153.7	298.7	614.6	1433.2	2679.0	3034.4	3048.8
37.5°	94.8	94.1	96.9	106.3	129.2	259.9	578.7	1426.7	2813.2	3203.1	3164.4
40°	87.6	87.6	89.8	97.7	115.6	232.6	541.4	1421.0	2943.2	3392.7	3279.3
42.5°	81.9	81.9	85.4	90.5	109.9	214.7	513.4	1413.1	3052.4	3509.0	3346.7
45°	74.0	76.1	81.9	86.9	111.3	202.5	492.6	1382.9	3089.7	3507.6	3314.4
47.5°	68.2	71.1	76.8	84.0	100.5	198.9	478.2	1356.4	3076.8	3421.4	3213.2
50°	61.8	65.3	73.2	85.4	85.4	191.7	463.1	1380.1	3067.4	3354.6	3116.3
52°	57.4	60.3	70.4	83.3	74.7	176.6	453.8	1426.0	3105.5	3346.0	3073.2
52.5°	56.7	58.9	68.2	81.9	71.1	173.8	447.3	1436.8	3117.7	3324.5	3102.6
55°	50.3	53.1	62.5	63.9	58.2	142.9	426.5	1461.2	3057.4	3282.1	3074.6
57.5°	47.4	48.8	55.3	52.4	50.3	107.7	366.9	1423.1	2715.6	2915.2	2860.6
60°	43.8	45.2	51.7	40.9	42.4	75.4	275.7	1235.7	2180.7	2429.1	2527.5
62.5°	42.4	41.6	48.8	33.0	35.9	54.6	194.6	1004.5	1680.2	1999.7	2169.9
65°	37.3	36.6	35.2	28.0	30.9	42.4	116.3	655.6	1184.0	1512.9	1606.2
67.5°	28.7	30.2	25.8	22.3	25.8	33.0	64.6	293.7	621.1	907.6	983.0
70°	20.1	21.5	20.8	19.4	23.0	27.3	37.3	100.5	257.1	476.8	525.6
72.5°	12.2	15.1	15.8	16.5	20.1	23.7	26.6	32.3	68.2	168.7	209.7
75°	7.2	10.1	12.2	14.4	16.5	20.1	22.3	23.0	23.7	31.6	51.0
77.5°	5.0	7.2	10.8	13.6	16.5	20.1	23.7	25.1	23.7	22.3	23.7
80°	4.3	7.2	10.1	12.9	17.2	20.8	23.7	23.7	23.0	20.1	21.5
82.5°	4.3	7.2	10.8	13.6	16.5	20.1	23.0	23.7	21.5	20.1	20.8
85°	5.0	7.9	11.5	14.4	18.0	16.5	15.1	12.2	11.5	9.3	10.1
87.5°	5.0	7.2	7.2	7.9	8.6	8.6	8.6	7.9	6.5	5.7	5.7
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°	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3	1835.3
2.5°	2005.5	2062.9	2060.8	2062.2	2053.6	1995.4	1967.4	1896.3	1916.4	1907.8
5°	2082.3	2139.0	2187.8	2182.1	2116.0	2037.1	1920.0	1809.4	1779.3	1734.8
7.5°	2005.5	2141.9	2187.1	2180.7	2083.0	1981.8	1795.1	1684.5	1632.1	1602.6
10°	1883.4	2041.4	2097.4	2108.9	2042.8	1889.1	1717.5	1540.2	1512.2	1461.2
12.5°	1813.7	1928.6	1963.1	1994.0	1971.0	1856.1	1658.7	1488.5	1449.7	1416.0
15°	1757.0	1825.2	1839.6	1874.8	1888.4	1826.7	1689.5	1544.5	1449.0	1445.4
17.5°	1809.4	1781.4	1729.0	1739.8	1782.9	1827.4	1769.2	1655.1	1562.4	1550.9
20°	1896.3	1772.8	1654.3	1680.9	1716.8	1853.2	1889.9	1809.4	1756.3	1726.9
22.5°	1996.1	1787.9	1630.7	1643.6	1711.8	1911.4	2085.2	2040.6	1941.6	1899.2
25°	2180.7	1829.5	1649.3	1657.9	1751.3	1992.5	2261.8	2294.8	2236.0	2227.3
27.5°	2360.9	1937.2	1690.2	1670.9	1771.4	2071.5	2368.8	2546.1	2442.7	2422.6
30°	2452.8	2024.8	1751.3	1718.3	1854.7	2119.6	2433.4	2709.9	2619.4	2610.0
32.5°	2593.5	2104.6	1798.7	1756.3	1901.3	2179.2	2554.0	2888.6	2801.0	2754.4
35°	2652.4	2191.4	1902.8	1853.2	2034.9	2262.5	2615.8	3048.0	3020.8	2975.5
37.5°	2765.9	2284.8	2025.6	2022.7	2196.5	2370.9	2727.1	3264.9	3259.9	3181.6
40°	2775.2	2386.7	2219.4	2309.9	2446.3	2559.8	2824.7	3325.2	3407.1	3353.9
42.5°	2789.6	2565.5	2554.8	2629.4	2746.5	2722.1	2828.3	3339.6	3464.5	3432.9
45°	2796.0	2744.3	2895.8	3033.7	3082.5	2934.6	2794.6	3312.3	3494.7	3415.7
47.5°	2744.3	2898.0	3171.5	3437.9	3452.3	3065.3	2780.2	3284.3	3512.6	3460.2
50°	2751.5	2994.2	3409.9	3648.3	3595.9	3180.9	2758.0	3267.0	3503.3	3468.1
52°	2734.3	2996.3	3443.7	3644.0	3607.4	3117.0	2719.9	3201.0	3494.7	3519.8
52.5°	2753.7	2983.4	3408.5	3646.9	3599.5	3148.6	2714.9	3237.6	3499.7	3448.7
55°	2686.9	2829.8	3202.4	3303.7	3296.5	2857.8	2560.5	3116.3	3368.3	3369.0
57.5°	2428.4	2452.8	2511.7	2509.5	2476.5	2246.7	2190.0	2865.7	3002.8	2928.1
60°	2139.7	1795.8	1637.1	1572.5	1535.9	1498.5	1937.2	2621.5	2634.5	2602.9
62.5°	1848.9	1245.1	1034.0	1016.0	1024.6	1161.1	1872.6	2524.6	2447.1	2378.8
65°	1492.1	907.6	751.1	727.4	811.4	958.6	1515.8	1935.8	1816.6	1759.9
67.5°	937.0	662.0	507.6	463.1	564.4	659.9	995.9	1216.3	1082.8	1004.5
70°	555.8	369.8	229.8	206.1	231.9	351.8	557.9	606.7	501.9	461.7
72.5°	219.0	135.7	63.9	54.6	56.7	123.5	205.4	200.3	151.5	135.0
75°	58.9	40.9	22.3	18.0	15.1	23.0	33.0	21.5	7.9	10.1
77.5°	27.3	24.4	19.4	15.1	11.5	8.6	4.3	1.4	1.4	0.7
80°	23.7	20.8	18.0	15.1	11.5	7.2	3.6	0.7	0.7	0.7
82.5°	22.3	19.4	16.5	13.6	10.8	7.2	3.6	0.7	0.0	0.0
85°	9.3	12.2	13.6	12.9	11.5	7.2	3.6	0.7	0.0	0.0
87.5°	5.0	4.3	3.6	2.9	2.2	1.4	1.4	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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