

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: P527143

Luminaire Tested: **GALN-SA2A-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527143
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-SA2A-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 3737 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

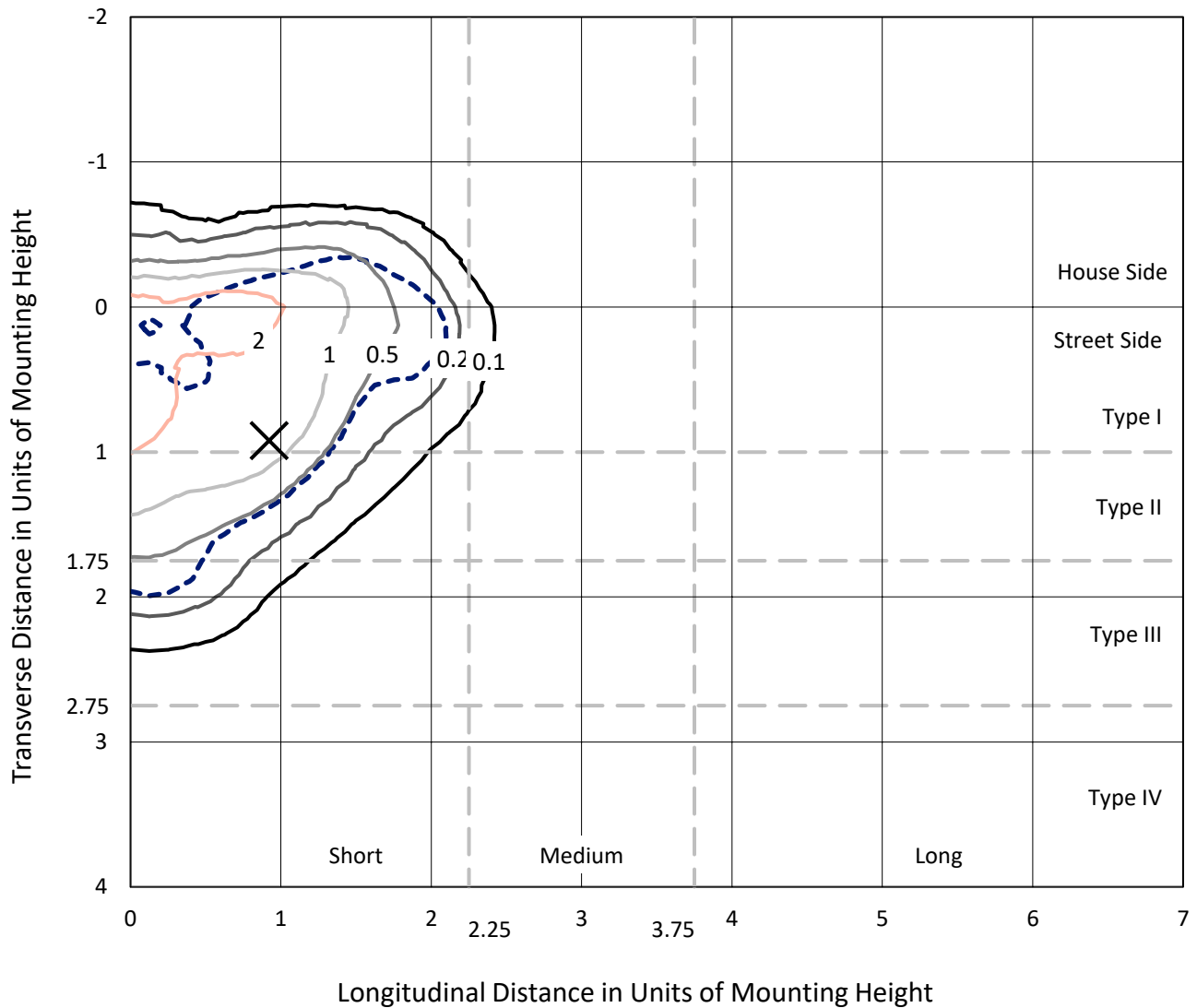
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

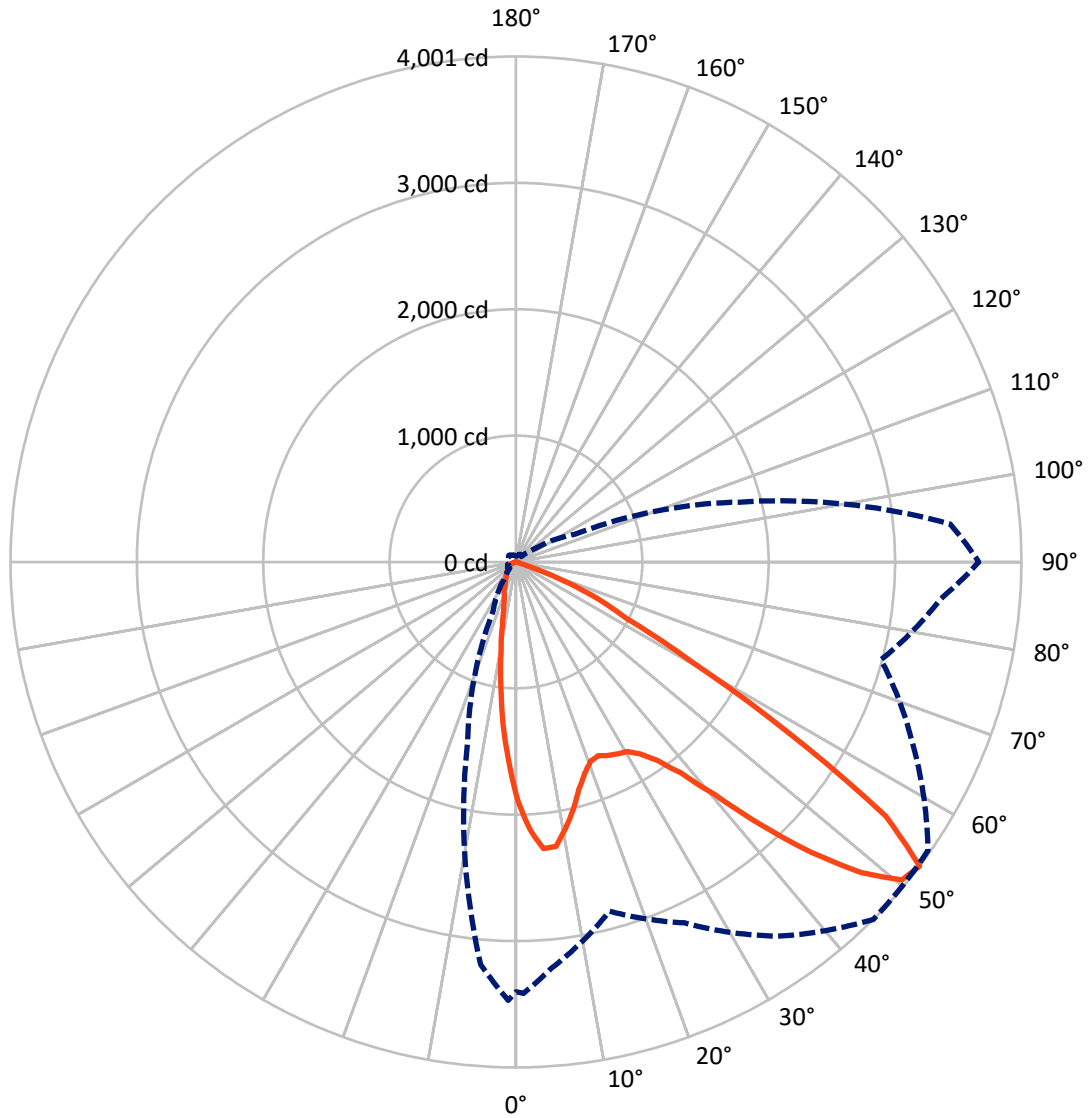
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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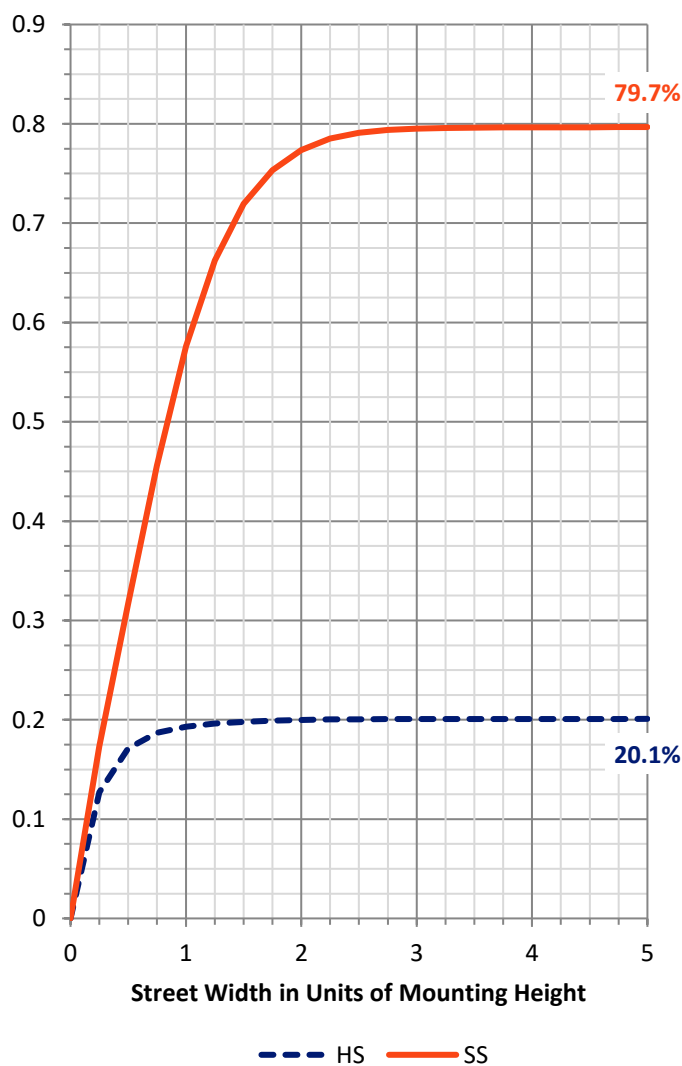
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.4	0.0	758.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2978.6	0.0	2978.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	3737.0	0.0	3737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.7
10°-20°	272.6	7.3
20°-30°	414.9	11.1
30°-40°	620.1	16.6
40°-50°	883.1	23.6
50°-60°	949.3	25.4
60°-70°	420.7	11.3
70°-80°	34.0	0.9
80°-90°	4.0	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°	3737.0	100.0
0°-180°	3737.0	100.0

Coefficient of Utilization

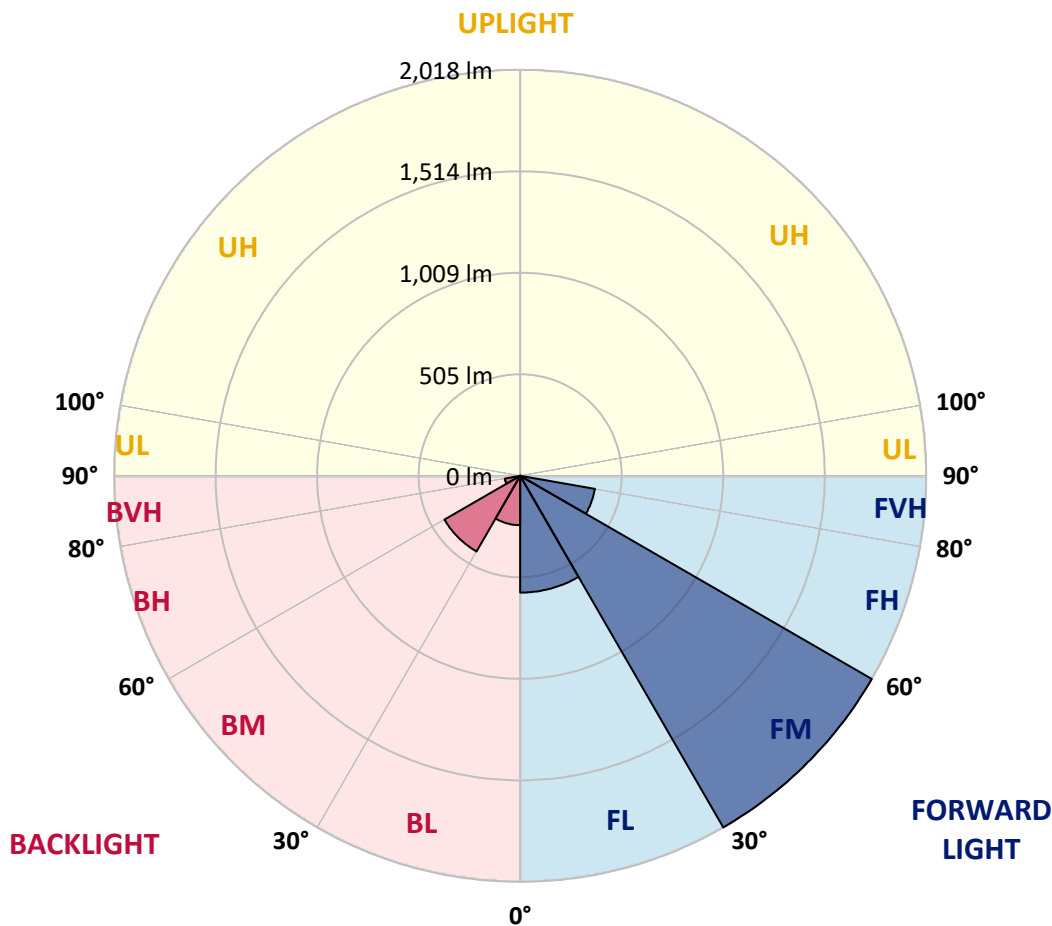


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.4	15.5			
FM (30°-60°)	2018.1	54.0			
FH (60°-80°)	377.1	10.1			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	245.3	6.6	B1/500		
BM (30°-60°)	434.5	11.6	B1/1000		
BH (60°-80°)	77.6	2.1	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8
2.5°	2005.1	2011.0	2043.3	2083.7	2105.0	2153.6	2119.7	2128.6	2110.2	2045.5	1994.8
5°	1944.1	1943.3	1984.5	2084.5	2179.3	2275.6	2278.5	2227.1	2136.6	2037.4	1895.6
7.5°	1760.3	1789.0	1831.6	1991.1	2166.8	2238.8	2273.4	2213.1	2074.2	1932.3	1778.7
10°	1621.4	1636.1	1708.1	1900.7	2029.3	2125.6	2146.9	2112.4	2005.8	1828.7	1656.7
12.5°	1541.3	1548.6	1633.2	1794.9	1930.8	2002.1	2012.4	2028.6	1952.2	1786.1	1579.5
15°	1542.0	1547.9	1661.8	1797.1	1850.7	1831.6	1865.4	1864.7	1897.8	1778.0	1644.2
17.5°	1653.0	1659.6	1762.5	1829.4	1805.9	1761.1	1758.9	1792.7	1862.5	1878.7	1742.0
20°	1844.1	1859.6	1935.3	1931.6	1799.3	1708.9	1683.9	1709.6	1872.0	1963.9	1938.9
22.5°	2101.4	2122.7	2175.6	2074.2	1829.4	1673.6	1665.5	1715.5	1935.3	2154.3	2162.4
25°	2399.8	2435.8	2461.5	2331.4	1936.7	1734.6	1696.4	1782.4	2020.5	2360.8	2446.8
27.5°	2597.5	2635.0	2629.1	2443.1	2008.8	1750.8	1718.4	1798.5	2094.8	2410.1	2595.3
30°	2751.8	2774.6	2815.8	2503.4	2080.8	1796.3	1741.2	1866.9	2119.0	2495.3	2774.6
32.5°	2931.9	2947.4	2950.3	2610.0	2191.8	1853.7	1811.8	1952.2	2226.3	2576.9	2933.4
35°	3113.5	3136.2	3088.5	2741.6	2260.1	1960.2	1929.4	2099.9	2312.3	2661.4	3108.3
37.5°	3310.4	3322.2	3212.0	2795.9	2357.9	2133.7	2116.8	2259.4	2461.5	2814.3	3302.4
40°	3475.8	3486.8	3343.5	2862.8	2460.8	2376.3	2419.6	2563.7	2664.4	2913.5	3399.4
42.5°	3567.7	3593.4	3387.6	2826.1	2667.3	2651.1	2843.7	2894.4	2899.6	2941.5	3486.1
45°	3592.7	3580.9	3314.9	2856.2	2848.1	3103.2	3278.1	3345.0	3133.3	2992.9	3508.2
47.5°	3477.3	3492.7	3207.5	2829.8	3085.5	3445.7	3672.1	3796.3	3307.5	2948.1	3453.8
50°	3383.9	3364.1	3173.0	2810.6	3149.5	3607.4	3956.5	3984.4	3467.7	3003.2	3394.2
52.5°	3402.3	3414.8	3228.1	2861.4	3150.9	3616.9	4000.6	3981.5	3472.9	2990.7	3372.9
55°	3441.3	3386.1	3204.6	2749.6	2940.0	3350.1	3550.8	3521.4	3205.3	2857.7	3320.7
57.5°	2969.4	3054.7	2946.6	2454.9	2413.0	2524.0	2520.3	2610.7	2391.0	2459.3	3023.1
60°	2410.1	2424.8	2465.2	2099.9	1669.9	1631.7	1578.8	1521.5	1608.9	2102.8	2749.6
62.5°	2119.7	2102.1	2246.2	1910.3	1178.9	987.1	978.3	1013.6	1241.4	2005.8	2579.1
65°	1540.6	1562.6	1667.0	1482.5	884.9	753.4	740.1	844.5	1004.7	1607.4	1968.3
67.5°	940.8	983.4	993.0	914.3	600.5	477.0	457.9	552.7	725.4	1040.0	1154.0
70°	434.4	485.8	534.3	499.1	347.7	196.2	185.2	232.3	366.0	598.3	612.3
72.5°	131.6	132.3	185.2	193.3	112.5	44.1	39.0	51.5	124.2	197.7	208.0
75°	9.6	10.3	25.0	28.7	21.3	11.0	11.8	14.0	26.5	44.1	33.1
77.5°	0.7	0.7	0.7	3.7	6.6	7.4	9.6	11.0	14.0	16.2	14.7
80°	0.7	0.0	0.7	2.9	5.1	7.4	8.8	10.3	11.0	12.5	11.0
82.5°	0.0	0.0	0.0	2.2	5.1	7.4	8.1	11.0	12.5	14.7	12.5
85°	0.0	0.0	0.0	2.2	5.1	8.1	7.4	3.7	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°	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8
2.5°	2003.6	1974.9	1909.5	1876.5	1798.5	1787.5	1711.1	1698.6	1672.9	1658.9	1625.1
5°	1833.1	1798.5	1692.0	1602.3	1497.9	1425.2	1369.3	1318.6	1289.2	1262.0	1274.5
7.5°	1694.2	1593.5	1475.1	1325.2	1204.7	1126.8	1041.5	971.7	930.5	902.6	909.2
10°	1548.6	1483.2	1318.6	1150.3	1004.7	949.6	882.7	829.1	771.0	721.0	697.5
12.5°	1503.1	1406.1	1199.5	1028.3	918.0	864.4	787.9	726.2	651.9	590.9	569.6
15°	1511.2	1417.8	1167.2	984.2	854.1	761.5	670.3	593.9	512.3	469.7	447.6
17.5°	1642.7	1481.0	1188.5	937.9	765.1	636.5	524.1	427.0	366.0	321.9	312.4
20°	1804.4	1617.7	1234.1	904.1	692.4	506.4	382.9	299.1	248.4	241.1	238.9
22.5°	2041.1	1841.2	1331.8	881.3	603.4	394.7	262.4	217.6	203.6	202.1	202.9
25°	2371.8	2121.2	1438.4	862.2	536.6	304.3	214.6	184.5	180.1	177.9	181.5
27.5°	2515.2	2290.3	1495.0	821.0	475.5	274.2	211.7	183.0	170.5	166.8	169.1
30°	2692.3	2402.7	1583.9	750.4	385.9	225.6	197.7	199.2	193.3	174.9	169.1
32.5°	2927.5	2543.1	1628.8	700.5	344.7	186.7	144.8	133.0	148.5	151.4	156.6
35°	3078.2	2685.7	1651.5	671.1	323.4	159.5	122.7	111.7	108.0	108.8	111.7
37.5°	3358.2	2878.3	1680.2	640.2	307.2	138.9	111.0	100.7	95.6	95.6	98.5
40°	3525.8	3031.1	1719.2	623.3	291.1	126.4	100.7	91.9	87.5	87.5	88.9
42.5°	3567.7	3106.8	1705.9	617.4	272.7	123.5	91.9	85.3	80.1	79.4	78.6
45°	3642.7	3222.2	1708.1	610.8	253.6	112.5	86.7	79.4	72.0	71.3	70.6
47.5°	3725.0	3305.3	1712.6	585.1	235.2	94.1	90.4	73.5	64.7	63.2	63.2
50°	3654.4	3371.4	1750.8	559.3	211.7	76.4	88.9	69.1	57.3	55.1	55.9
52.5°	3663.2	3449.4	1831.6	523.3	182.3	61.0	72.0	65.4	52.2	48.5	49.2
55°	3522.1	3367.0	1842.6	485.1	142.6	47.0	55.1	57.3	44.1	42.6	42.6
57.5°	3031.9	2851.1	1625.8	393.2	94.1	39.0	39.7	50.0	38.2	36.8	37.5
60°	2594.6	2288.8	1308.3	259.5	58.8	30.9	28.7	50.7	33.8	33.1	35.3
62.5°	2365.2	1880.9	992.3	161.0	40.4	23.5	19.8	41.2	29.4	29.4	32.3
65°	1708.9	1263.5	577.0	84.5	28.7	18.4	14.7	23.5	24.3	25.0	26.5
67.5°	1058.4	638.0	243.3	41.2	19.1	12.5	9.6	14.7	16.2	16.2	17.6
70°	522.6	254.3	80.9	23.5	14.7	10.3	6.6	8.1	8.1	7.4	8.1
72.5°	161.7	76.4	20.6	14.7	10.3	6.6	3.7	2.9	1.5	0.0	0.7
75°	18.4	14.7	13.2	10.3	6.6	2.9	0.7	0.0	0.0	0.0	0.0
77.5°	11.0	12.5	12.5	10.3	6.6	2.2	0.0	0.0	0.0	0.0	0.0
80°	8.8	9.6	10.3	9.6	5.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	12.5	14.0	12.5	8.1	3.7	1.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.2	0.7	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°	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8
2.5°	1611.1	1595.0	1617.7	1583.9	1583.2	1583.9	1574.4	1565.6	1579.5	1617.0	1620.7
5°	1229.7	1264.2	1275.2	1311.2	1291.4	1262.0	1267.9	1248.0	1296.5	1317.9	1301.0
7.5°	895.2	893.0	967.3	971.7	981.2	982.0	980.5	941.5	901.8	910.7	937.1
10°	694.6	657.1	693.1	689.4	713.0	706.3	715.9	674.0	688.0	688.0	704.9
12.5°	566.0	526.3	519.6	510.1	519.6	523.3	527.0	518.9	542.4	553.5	565.2
15°	432.2	410.1	404.3	385.9	388.8	399.1	407.9	411.6	404.3	421.2	422.6
17.5°	313.8	313.1	316.8	316.1	313.1	310.9	310.2	300.6	297.7	299.1	305.0
20°	238.1	244.0	256.5	269.0	275.6	267.5	256.5	240.3	233.7	235.2	235.9
22.5°	203.6	212.4	229.3	243.3	249.9	235.2	215.4	201.4	198.5	197.7	197.0
25°	184.5	194.8	207.3	211.7	210.9	202.1	187.4	181.5	180.1	178.6	172.0
27.5°	174.2	177.9	180.1	185.2	187.4	181.5	177.9	169.1	167.6	167.6	163.2
30°	168.3	166.1	169.1	165.4	168.3	163.9	164.6	164.6	161.0	162.4	162.4
32.5°	156.6	157.3	157.3	149.9	152.1	147.0	152.1	156.6	157.3	158.0	163.9
35°	114.7	127.9	134.5	134.5	136.7	133.0	132.3	127.2	120.5	113.9	111.0
37.5°	100.7	105.8	114.7	119.8	123.5	120.5	113.9	105.8	102.2	99.2	96.3
40°	89.7	94.1	100.0	105.8	113.2	109.5	99.2	95.6	91.1	91.1	88.2
42.5°	80.9	83.1	86.7	95.6	103.6	96.3	88.9	86.0	83.8	83.1	82.3
45°	72.8	73.5	77.2	84.5	94.1	86.7	79.4	75.7	76.4	77.2	76.4
47.5°	65.4	66.9	69.1	77.9	83.8	80.1	72.0	69.8	69.8	69.8	70.6
50°	56.6	60.3	64.7	72.0	76.4	74.2	67.6	64.7	63.2	63.2	63.9
52.5°	50.7	53.7	59.5	68.4	74.2	70.6	63.9	59.5	56.6	55.9	57.3
55°	44.1	49.2	58.8	65.4	73.5	69.8	62.5	57.3	52.2	51.5	51.5
57.5°	39.7	47.8	56.6	64.7	71.3	68.4	62.5	55.9	49.2	48.5	48.5
60°	37.5	46.3	55.1	62.5	71.3	66.9	61.7	54.4	47.0	47.0	46.3
62.5°	35.3	43.4	52.2	59.5	68.4	64.7	59.5	52.2	44.8	44.8	43.4
65°	29.4	37.5	43.4	50.0	59.5	55.9	50.7	45.6	39.7	38.2	39.0
67.5°	20.6	25.7	31.6	38.2	44.1	42.6	40.4	36.8	31.6	30.9	30.1
70°	10.3	14.0	19.1	25.7	30.9	29.4	27.9	25.0	22.1	21.3	21.3
72.5°	1.5	4.4	8.1	11.8	16.2	16.9	16.2	15.4	14.7	14.0	14.7
75°	0.0	0.0	0.0	2.9	6.6	8.1	9.6	11.0	11.0	9.6	11.8
77.5°	0.0	0.0	0.0	0.0	0.7	3.7	7.4	9.6	11.8	10.3	14.0
80°	0.0	0.0	0.0	0.0	0.7	4.4	7.4	10.3	11.8	10.3	14.7
82.5°	0.0	0.0	0.0	0.0	0.7	5.1	7.4	9.6	11.0	10.3	13.2
85°	0.0	0.0	0.0	0.0	2.2	4.4	2.9	1.5	0.7	0.7	2.2
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°	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8
2.5°	1641.3	1693.4	1749.3	1770.6	1836.8	1886.7	1920.6	1993.3	2004.3	2005.1
5°	1318.6	1345.1	1440.6	1485.4	1583.9	1660.4	1742.0	1859.6	1938.2	1944.1
7.5°	937.1	1010.6	1051.1	1167.9	1289.2	1409.0	1530.3	1667.0	1758.1	1760.3
10°	754.1	801.9	873.9	961.4	1063.5	1185.6	1347.3	1506.0	1598.6	1621.4
12.5°	607.1	690.9	773.2	863.6	941.5	1033.4	1207.6	1419.3	1495.7	1541.3
15°	467.5	543.9	640.9	746.8	835.0	957.7	1156.2	1398.0	1526.6	1542.0
17.5°	344.7	413.1	502.7	602.7	735.0	909.2	1165.0	1506.0	1627.3	1653.0
20°	247.7	287.4	357.9	474.1	642.4	852.6	1173.8	1615.5	1800.0	1844.1
22.5°	196.2	212.4	258.7	361.6	538.8	793.1	1236.3	1825.0	2037.4	2101.4
25°	170.5	179.3	201.4	285.2	473.3	787.2	1336.2	2076.4	2353.5	2399.8
27.5°	164.6	166.1	185.2	261.7	438.1	748.2	1374.5	2255.0	2550.5	2597.5
30°	173.5	197.0	198.5	221.2	372.6	671.1	1394.3	2427.7	2717.3	2751.8
32.5°	149.9	142.6	147.7	171.3	327.8	626.2	1431.8	2578.4	2907.7	2931.9
35°	104.4	109.5	121.3	148.5	286.7	579.2	1441.3	2744.5	3088.5	3113.5
37.5°	96.3	99.2	108.8	126.4	252.1	552.7	1428.1	2865.8	3275.9	3310.4
40°	89.7	93.3	98.5	114.7	226.4	523.3	1409.7	2975.3	3390.6	3475.8
42.5°	84.5	87.5	91.9	109.5	204.3	493.9	1384.0	3129.6	3493.5	3567.7
45°	78.6	83.1	88.2	106.6	191.8	474.1	1364.9	3120.1	3553.0	3592.7
47.5°	72.8	80.1	86.0	99.2	188.2	464.5	1373.0	3084.1	3504.5	3477.3
50°	66.9	76.4	86.7	82.3	179.3	445.4	1382.5	3133.3	3389.1	3383.9
52.5°	61.7	72.8	80.9	67.6	159.5	427.0	1475.1	3198.0	3470.7	3402.3
55°	54.4	65.4	64.7	54.4	129.4	413.1	1547.9	3199.5	3415.5	3441.3
57.5°	49.2	58.1	50.7	45.6	95.6	345.5	1429.6	2682.8	2923.8	2969.4
60°	45.6	56.6	38.2	36.0	62.5	249.2	1248.0	2077.8	2324.1	2410.1
62.5°	41.9	53.7	30.1	29.4	43.4	177.1	1026.1	1739.0	2002.9	2119.7
65°	36.8	38.2	24.3	22.8	30.9	95.6	624.8	1197.3	1497.2	1540.6
67.5°	30.1	29.4	19.8	18.4	20.6	46.3	275.6	599.8	868.0	940.8
70°	24.3	24.3	16.9	14.7	14.7	21.3	72.0	238.9	392.5	434.4
72.5°	17.6	18.4	13.2	11.8	11.0	10.3	11.8	47.8	102.9	131.6
75°	15.4	16.2	13.2	10.3	8.1	6.6	5.1	4.4	5.9	9.6
77.5°	16.9	16.9	14.0	9.6	7.4	5.1	2.9	1.5	1.5	0.7
80°	21.3	22.1	18.4	12.5	8.8	5.9	3.7	1.5	0.7	0.7
82.5°	22.8	25.0	20.6	15.4	11.0	6.6	3.7	0.7	0.0	0.0
85°	5.9	9.6	16.2	14.0	11.0	6.6	3.7	0.7	0.0	0.0
87.5°	0.0	0.7	2.2	2.2	2.9	2.9	2.2	0.7	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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