

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: P527379

Luminaire Tested: **GALN-SA2B-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527379
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-SA2B-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA 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: 4650 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

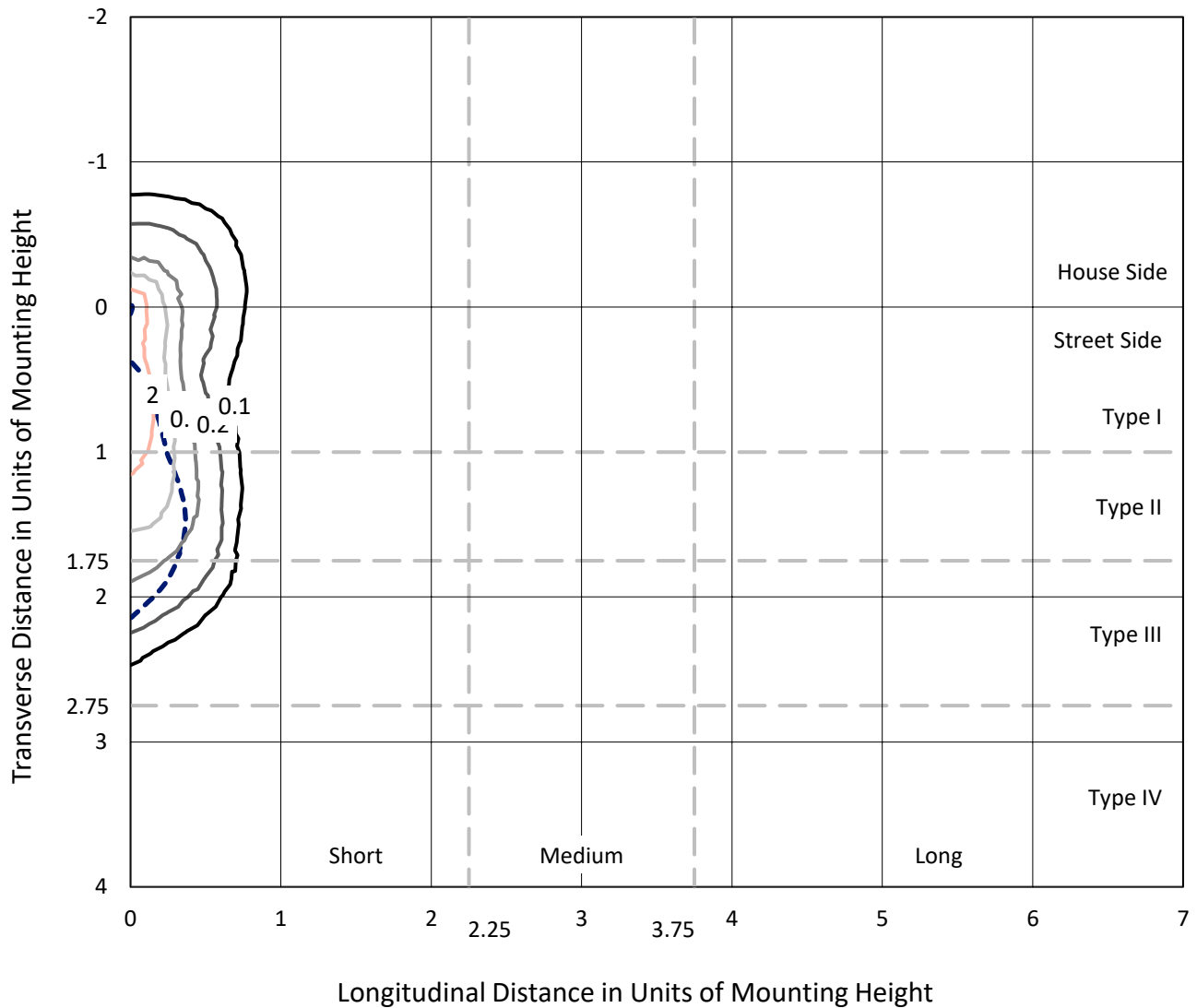
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

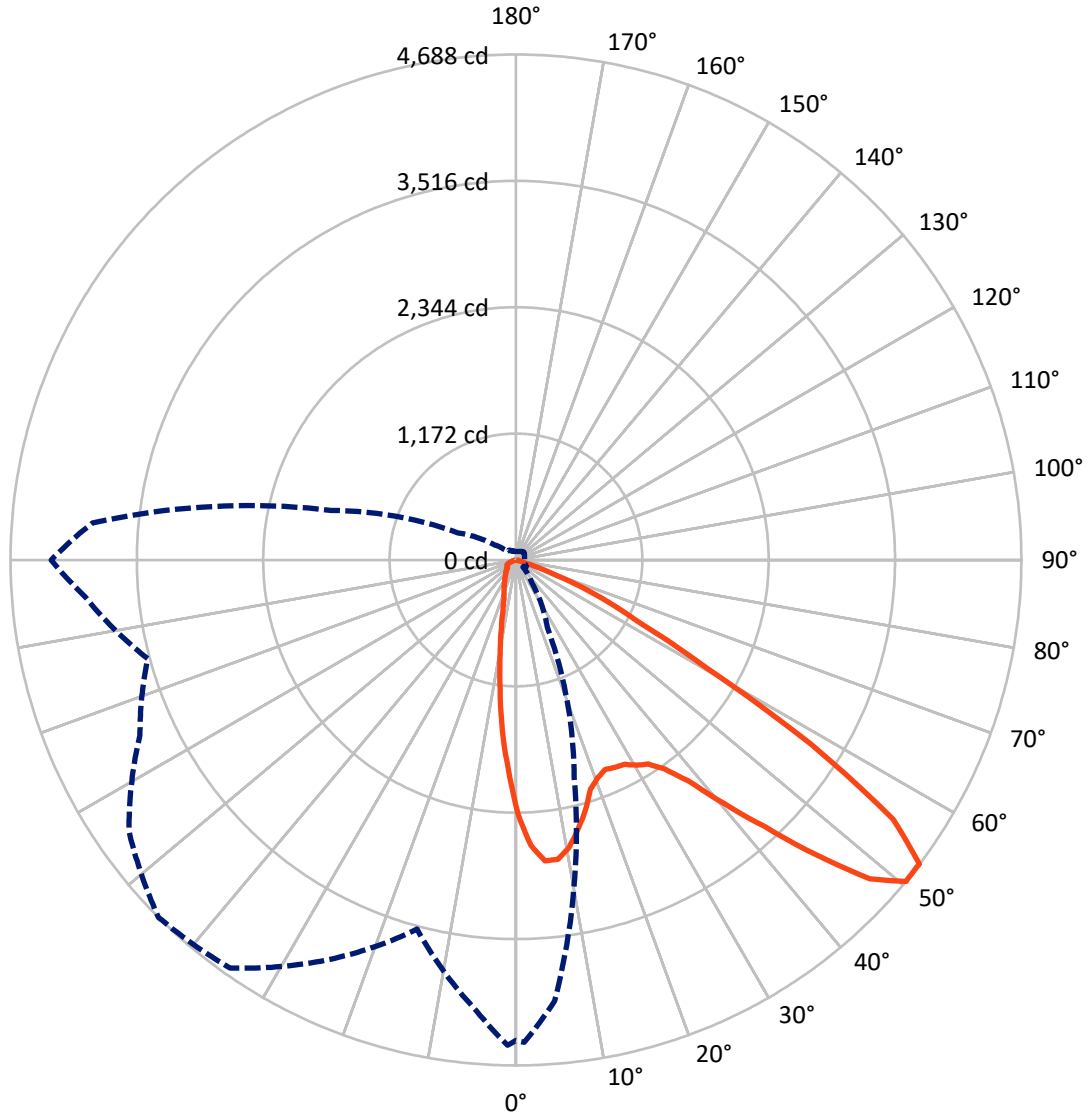
× Max cd
 - - - 1/2 Max cd



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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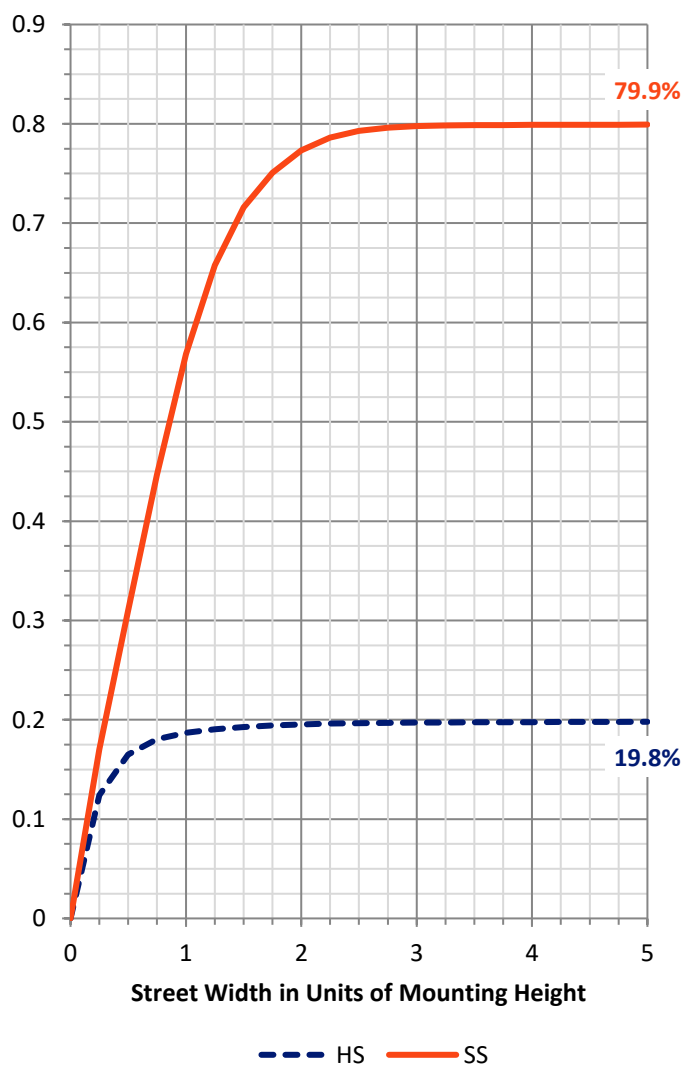
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	931.4	0.0	931.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3718.6	0.0	3718.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	4650.0	0.0	4650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.7
10°-20°	341.6	7.3
20°-30°	513.2	11.0
30°-40°	770.3	16.6
40°-50°	1082.6	23.3
50°-60°	1167.8	25.1
60°-70°	542.2	11.7
70°-80°	51.0	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°	4650.0	100.0
0°-180°	4650.0	100.0

Coefficient of Utilization



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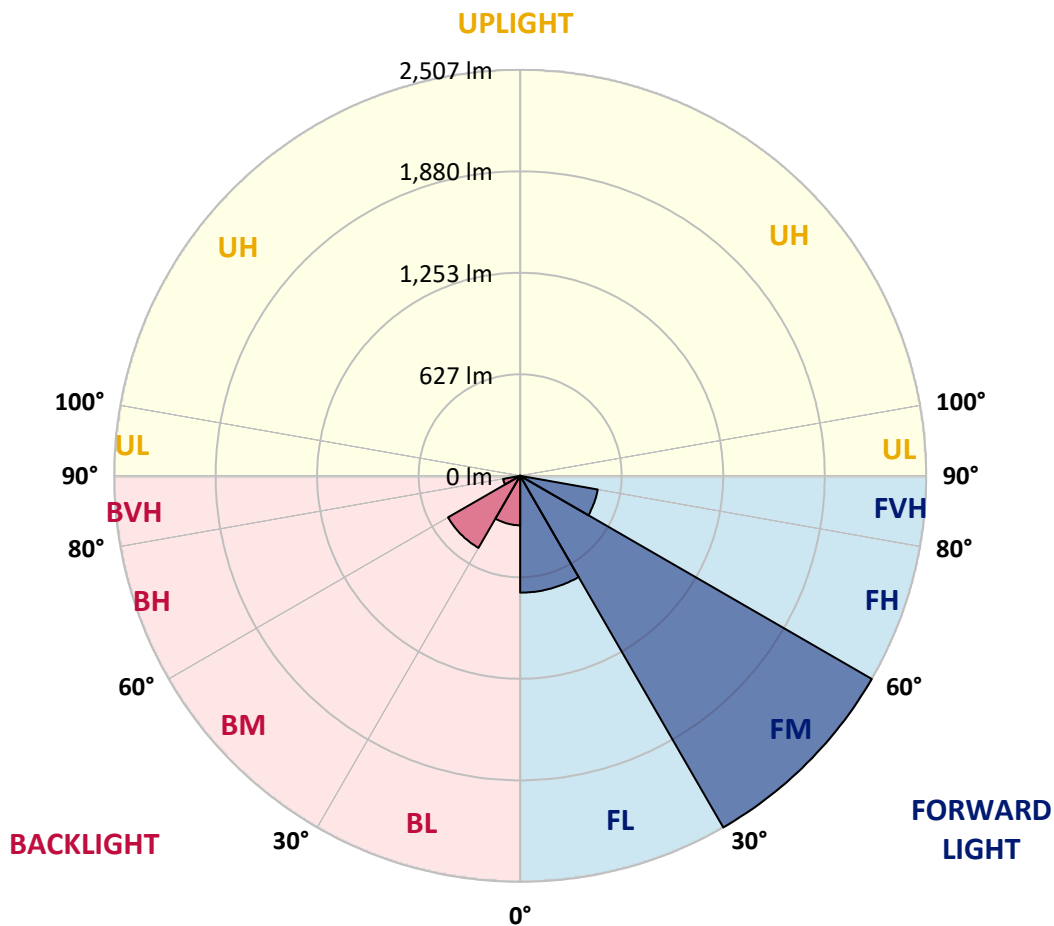
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.4	15.5			
FM (30°-60°)	2506.7	53.9			
FH (60°-80°)	486.3	10.5			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	305.3	6.6	B1/500		
BM (30°-60°)	514.0	11.1	B1/1000		
BH (60°-80°)	106.9	2.3	B0/110		G0/110
BVH (80°-90°)	5.2	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°	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1
2.5°	2451.3	2413.5	2365.5	2325.8	2266.8	2147.8	2115.5	2076.7	2044.5	2001.1	1940.2
5°	2229.0	2217.0	2194.8	2045.4	1937.4	1793.5	1675.4	1625.6	1560.1	1506.6	1467.8
7.5°	2059.2	2011.2	1941.1	1790.7	1618.2	1464.1	1333.1	1256.6	1169.8	1140.3	1087.7
10°	1877.5	1888.5	1785.2	1573.9	1365.4	1240.9	1159.7	1085.9	1007.5	955.8	881.1
12.5°	1819.3	1783.4	1704.0	1442.9	1264.9	1148.6	1049.9	958.6	875.5	792.5	720.5
15°	1857.2	1801.8	1691.1	1415.3	1187.4	1042.5	918.9	795.3	718.7	612.6	537.9
17.5°	1992.8	1948.5	1800.0	1444.8	1147.7	941.0	757.4	630.1	513.0	417.0	379.2
20°	2218.8	2156.1	1969.7	1482.6	1088.7	818.3	614.4	457.6	346.9	306.3	285.1
22.5°	2440.2	2406.1	2170.9	1555.5	1036.1	709.5	461.3	308.1	259.2	251.9	238.0
25°	2861.9	2759.5	2478.1	1687.4	995.5	607.1	347.8	248.2	219.6	214.0	215.9
27.5°	3112.8	3027.0	2762.2	1775.1	950.3	528.6	294.3	227.9	208.5	196.5	191.9
30°	3353.6	3254.0	2903.4	1826.7	853.4	445.6	261.1	218.7	214.0	196.5	191.0
32.5°	3539.0	3441.3	3107.3	1904.2	813.7	392.1	215.0	170.7	158.7	156.8	173.4
35°	3823.2	3719.0	3281.6	1946.7	783.3	364.4	186.4	152.2	138.4	132.9	133.8
37.5°	4088.0	4017.0	3443.1	1963.3	751.0	356.1	167.0	136.5	124.5	120.9	119.9
40°	4309.4	4150.7	3596.2	1980.8	737.1	340.4	155.0	124.5	116.2	110.7	110.7
42.5°	4410.9	4249.4	3767.9	1970.6	733.5	315.5	155.0	114.4	107.9	102.4	101.5
45°	4388.8	4323.2	3844.4	1966.0	733.5	290.6	141.2	111.6	102.4	95.0	93.2
47.5°	4446.0	4360.2	3940.4	1985.4	718.7	273.1	119.0	117.2	96.9	87.6	85.8
50°	4456.1	4472.7	4107.4	2086.0	686.4	250.9	93.2	115.3	93.2	79.3	77.5
52°	4522.5	4419.2	4158.1	2139.5	652.3	234.3	78.4	98.7	89.5	73.8	72.0
52.5°	4431.2	4498.5	4170.1	2158.9	656.0	223.3	75.7	96.9	87.6	73.8	69.2
55°	4328.8	4393.4	4121.2	2200.4	601.5	175.3	59.0	70.1	79.3	64.6	61.8
57.5°	3762.3	3827.8	3581.5	2014.9	489.9	123.6	48.9	52.6	70.1	60.0	57.2
60°	3344.4	3297.3	3005.8	1681.0	347.8	69.2	38.7	40.6	76.6	55.4	54.4
62.5°	3056.5	2956.0	2512.2	1298.1	212.2	46.1	30.4	31.4	59.0	51.7	51.7
65°	2261.3	2148.7	1669.0	785.1	104.3	32.3	23.1	24.9	36.9	44.3	44.3
67.5°	1290.7	1247.3	806.3	354.3	43.4	20.3	17.5	19.4	28.6	36.0	34.1
70°	593.2	532.3	310.0	74.7	20.3	13.8	13.8	15.7	23.1	26.8	24.9
72.5°	173.4	164.2	75.7	12.0	8.3	8.3	9.2	12.0	17.5	20.3	18.5
75°	12.9	8.3	5.5	3.7	3.7	5.5	7.4	12.0	17.5	19.4	15.7
77.5°	0.9	1.8	0.9	0.9	2.8	5.5	8.3	14.8	23.1	24.0	17.5
80°	0.9	0.9	0.0	0.9	2.8	5.5	9.2	16.6	25.8	27.7	14.8
82.5°	0.0	0.0	0.0	0.9	3.7	7.4	11.1	17.5	24.0	29.5	15.7
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°	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1
2.5°	1983.6	1959.6	1950.4	1958.7	1955.9	1953.1	2003.9	1992.8	1990.9	2007.6	2003.9
5°	1489.1	1446.6	1562.9	1515.8	1564.7	1594.2	1599.8	1602.5	1636.7	1600.7	1647.7
7.5°	1061.0	1072.0	1071.1	1102.5	1158.8	1208.6	1238.1	1215.0	1213.2	1208.6	1188.3
10°	847.9	828.5	824.8	817.4	834.9	877.4	913.4	884.8	864.5	892.1	883.8
12.5°	692.9	666.1	651.3	621.8	622.7	651.3	651.3	651.3	671.6	687.3	699.3
15°	531.4	509.3	509.3	479.7	473.3	474.2	489.0	490.8	523.1	532.3	536.9
17.5°	371.8	359.8	373.6	385.6	378.3	380.1	385.6	387.5	392.1	388.4	397.6
20°	286.0	284.2	287.8	309.1	324.8	334.0	327.5	318.3	312.8	299.8	299.8
22.5°	242.6	246.3	252.8	270.3	290.6	296.2	288.8	267.6	250.9	249.1	250.0
25°	215.9	219.6	229.7	240.8	251.9	261.1	253.7	238.0	228.8	220.5	220.5
27.5°	199.3	201.1	206.7	215.0	224.2	231.6	228.8	220.5	210.4	206.7	198.4
30°	186.4	189.1	195.6	197.4	205.7	209.4	204.8	203.0	196.5	191.9	189.1
32.5°	179.9	179.0	183.6	185.4	186.4	189.1	183.6	186.4	185.4	178.1	175.3
35°	135.6	143.0	155.0	165.1	167.9	171.6	170.7	167.0	156.8	148.5	138.4
37.5°	121.8	126.4	132.9	141.2	152.2	156.8	155.0	145.8	133.8	128.2	126.4
40°	112.6	115.3	120.9	126.4	137.5	145.8	139.3	131.0	121.8	117.2	114.4
42.5°	104.3	105.2	107.9	113.5	121.8	134.7	123.6	112.6	108.9	106.1	104.3
45°	95.0	95.0	98.7	101.5	110.7	122.7	111.6	101.5	99.6	97.8	96.9
47.5°	87.6	88.6	90.4	94.1	101.5	109.8	102.4	94.1	89.5	88.6	86.7
50°	78.4	79.3	83.0	86.7	95.9	100.6	95.9	86.7	82.1	79.3	79.3
52°	71.0	73.8	77.5	84.9	91.3	98.7	93.2	83.0	77.5	74.7	72.9
52.5°	70.1	72.0	75.7	84.0	91.3	97.8	92.3	82.1	75.7	73.8	72.0
55°	62.7	65.5	72.0	82.1	90.4	97.8	90.4	81.2	72.0	67.3	65.5
57.5°	60.0	61.8	70.1	83.0	89.5	97.8	90.4	81.2	72.0	63.7	61.8
60°	57.2	60.9	70.1	80.3	88.6	98.7	91.3	80.3	70.1	60.0	60.0
62.5°	54.4	57.2	69.2	78.4	84.9	95.0	87.6	78.4	67.3	57.2	56.3
65°	47.1	51.7	60.9	65.5	72.9	82.1	74.7	68.3	59.0	50.7	49.8
67.5°	36.0	37.8	45.2	50.7	55.4	63.7	60.0	51.7	45.2	38.7	38.7
70°	24.9	26.8	32.3	35.1	39.7	44.3	41.5	35.1	30.4	26.8	25.8
72.5°	17.5	18.5	20.3	22.1	24.0	25.8	24.9	20.3	17.5	16.6	15.7
75°	13.8	15.7	16.6	15.7	14.8	13.8	13.8	12.0	10.1	9.2	9.2
77.5°	13.8	14.8	13.8	12.0	10.1	9.2	8.3	7.4	5.5	4.6	5.5
80°	12.0	12.0	12.0	10.1	9.2	8.3	7.4	6.5	5.5	4.6	4.6
82.5°	12.9	12.9	12.0	10.1	10.1	8.3	8.3	7.4	6.5	4.6	4.6
85°	0.0	0.0	0.0	1.8	4.6	8.3	8.3	7.4	6.5	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°	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1
2.5°	2037.1	2072.1	2138.6	2205.0	2245.6	2293.6	2380.3	2426.4	2486.4	2515.9	2574.0
5°	1641.3	1724.3	1753.8	1829.5	1910.7	1991.9	2121.0	2263.1	2381.2	2462.4	2567.6
7.5°	1197.5	1216.9	1331.3	1382.0	1514.9	1662.5	1838.7	2017.7	2167.2	2300.0	2380.3
10°	897.7	968.7	1040.7	1137.6	1244.6	1396.8	1565.6	1763.1	1956.8	2089.7	2191.1
12.5°	721.5	777.7	873.7	977.9	1109.9	1210.4	1380.2	1575.8	1826.7	1956.8	2090.6
15°	546.2	618.1	727.0	834.9	974.3	1080.4	1252.0	1498.3	1821.2	2000.2	2115.5
17.5°	405.0	453.9	551.7	672.6	814.6	964.1	1195.7	1490.0	1883.0	2096.1	2215.1
20°	310.0	326.6	388.4	496.4	650.4	846.0	1104.3	1526.0	2065.7	2329.5	2450.4
22.5°	250.9	258.3	282.3	357.0	506.5	742.7	1061.0	1550.9	2271.4	2609.1	2770.5
25°	218.7	216.8	232.5	264.8	395.8	645.8	1005.6	1645.0	2523.3	2937.5	3082.4
27.5°	199.3	199.3	206.7	229.7	328.4	583.1	970.6	1712.3	2777.0	3226.3	3304.7
30°	189.1	191.0	212.2	219.6	273.1	508.3	912.4	1780.6	3019.6	3410.8	3518.8
32.5°	175.3	167.9	163.3	181.7	229.7	441.0	854.3	1809.2	3216.1	3636.8	3729.1
35°	134.7	131.0	136.5	150.4	197.4	383.8	789.7	1841.5	3442.2	3898.9	3917.3
37.5°	121.8	120.9	124.5	136.5	166.1	334.0	743.6	1833.2	3614.7	4115.7	4065.8
40°	112.6	112.6	115.3	125.5	148.5	298.9	695.6	1825.8	3781.7	4359.2	4213.5
42.5°	105.2	105.2	109.8	116.2	141.2	275.9	659.7	1815.7	3921.9	4508.7	4300.2
45°	95.0	97.8	105.2	111.6	143.0	260.2	632.9	1776.9	3969.9	4506.8	4258.7
47.5°	87.6	91.3	98.7	107.9	129.2	255.6	614.4	1742.8	3953.3	4396.1	4128.6
50°	79.3	84.0	94.1	109.8	109.8	246.3	595.1	1773.2	3941.3	4310.3	4004.0
52°	73.8	77.5	90.4	107.0	95.9	227.0	583.1	1832.3	3990.2	4299.3	3948.7
52.5°	72.9	75.7	87.6	105.2	91.3	223.3	574.8	1846.1	4005.9	4271.6	3986.5
55°	64.6	68.3	80.3	82.1	74.7	183.6	548.0	1877.5	3928.4	4217.2	3950.5
57.5°	60.9	62.7	71.0	67.3	64.6	138.4	471.4	1828.6	3489.2	3745.7	3675.6
60°	56.3	58.1	66.4	52.6	54.4	96.9	354.3	1587.8	2801.9	3121.1	3247.5
62.5°	54.4	53.5	62.7	42.4	46.1	70.1	250.0	1290.7	2158.9	2569.4	2788.1
65°	48.0	47.1	45.2	36.0	39.7	54.4	149.5	842.3	1521.3	1943.9	2063.8
67.5°	36.9	38.7	33.2	28.6	33.2	42.4	83.0	377.3	798.0	1166.2	1263.0
70°	25.8	27.7	26.8	24.9	29.5	35.1	48.0	129.2	330.3	612.6	675.3
72.5°	15.7	19.4	20.3	21.2	25.8	30.4	34.1	41.5	87.6	216.8	269.4
75°	9.2	12.9	15.7	18.5	21.2	25.8	28.6	29.5	30.4	40.6	65.5
77.5°	6.5	9.2	13.8	17.5	21.2	25.8	30.4	32.3	30.4	28.6	30.4
80°	5.5	9.2	12.9	16.6	22.1	26.8	30.4	30.4	29.5	25.8	27.7
82.5°	5.5	9.2	13.8	17.5	21.2	25.8	29.5	30.4	27.7	25.8	26.8
85°	6.5	10.1	14.8	18.5	23.1	21.2	19.4	15.7	14.8	12.0	12.9
87.5°	6.5	9.2	9.2	10.1	11.1	11.1	11.1	10.1	8.3	7.4	7.4
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°	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1	2358.1
2.5°	2576.8	2650.6	2647.8	2649.7	2638.6	2563.9	2527.9	2436.6	2462.4	2451.3
5°	2675.5	2748.4	2811.1	2803.7	2718.9	2617.4	2467.0	2324.9	2286.2	2229.0
7.5°	2576.8	2752.1	2810.2	2801.9	2676.4	2546.3	2306.5	2164.4	2097.0	2059.2
10°	2419.9	2622.9	2694.9	2709.6	2624.8	2427.3	2206.8	1979.0	1943.0	1877.5
12.5°	2330.5	2478.1	2522.4	2562.0	2532.5	2384.9	2131.2	1912.5	1862.7	1819.3
15°	2257.6	2345.2	2363.7	2408.9	2426.4	2347.1	2170.9	1984.5	1861.8	1857.2
17.5°	2324.9	2288.9	2221.6	2235.4	2290.8	2348.0	2273.3	2126.6	2007.6	1992.8
20°	2436.6	2277.9	2125.6	2159.8	2205.9	2381.2	2428.3	2324.9	2256.7	2218.8
22.5°	2564.8	2297.2	2095.2	2111.8	2199.5	2455.9	2679.2	2622.0	2494.7	2440.2
25°	2801.9	2350.8	2119.2	2130.3	2250.2	2560.2	2906.2	2948.6	2872.9	2861.9
27.5°	3033.5	2489.1	2171.8	2146.9	2276.0	2661.7	3043.6	3271.5	3138.6	3112.8
30°	3151.6	2601.7	2250.2	2207.8	2383.0	2723.5	3126.7	3481.8	3365.6	3353.6
32.5°	3332.4	2704.1	2311.1	2256.7	2443.0	2800.1	3281.6	3711.6	3599.0	3539.0
35°	3408.0	2815.7	2444.9	2381.2	2614.6	2907.1	3361.0	3916.4	3881.3	3823.2
37.5°	3553.8	2935.7	2602.6	2598.9	2822.2	3046.4	3504.0	4195.0	4188.6	4088.0
40°	3565.8	3066.7	2851.7	2968.0	3143.3	3289.0	3629.5	4272.5	4377.7	4309.4
42.5°	3584.3	3296.4	3282.6	3378.5	3528.9	3497.5	3634.1	4291.0	4451.5	4410.9
45°	3592.6	3526.1	3720.8	3897.9	3960.7	3770.6	3590.7	4255.9	4490.2	4388.8
47.5°	3526.1	3723.6	4075.1	4417.4	4435.8	3938.5	3572.3	4219.9	4513.3	4446.0
50°	3535.4	3847.2	4381.4	4687.7	4620.3	4087.1	3543.7	4197.8	4501.3	4456.1
52°	3513.2	3850.0	4424.7	4682.1	4635.1	4005.0	3494.8	4112.9	4490.2	4522.5
52.5°	3538.1	3833.4	4379.5	4685.8	4624.9	4045.6	3488.3	4160.0	4496.7	4431.2
55°	3452.3	3635.9	4114.7	4244.8	4235.6	3671.9	3290.0	4004.0	4327.9	4328.8
57.5°	3120.2	3151.6	3227.2	3224.4	3182.0	2886.8	2813.9	3682.1	3858.3	3762.3
60°	2749.3	2307.4	2103.5	2020.5	1973.4	1925.4	2489.1	3368.4	3385.0	3344.4
62.5°	2375.7	1599.8	1328.5	1305.5	1316.5	1491.8	2406.1	3243.8	3144.2	3056.5
65°	1917.1	1166.2	965.0	934.6	1042.5	1231.7	1947.6	2487.3	2334.1	2261.3
67.5°	1204.0	850.6	652.3	595.1	725.2	847.9	1279.6	1562.9	1391.3	1290.7
70°	714.1	475.1	295.2	264.8	298.0	452.1	716.9	779.6	644.9	593.2
72.5°	281.4	174.4	82.1	70.1	72.9	158.7	263.9	257.4	194.7	173.4
75°	75.7	52.6	28.6	23.1	19.4	29.5	42.4	27.7	10.1	12.9
77.5°	35.1	31.4	24.9	19.4	14.8	11.1	5.5	1.8	1.8	0.9
80°	30.4	26.8	23.1	19.4	14.8	9.2	4.6	0.9	0.9	0.9
82.5°	28.6	24.9	21.2	17.5	13.8	9.2	4.6	0.9	0.0	0.0
85°	12.0	15.7	17.5	16.6	14.8	9.2	4.6	0.9	0.0	0.0
87.5°	6.5	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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