

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: P451509

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6041 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

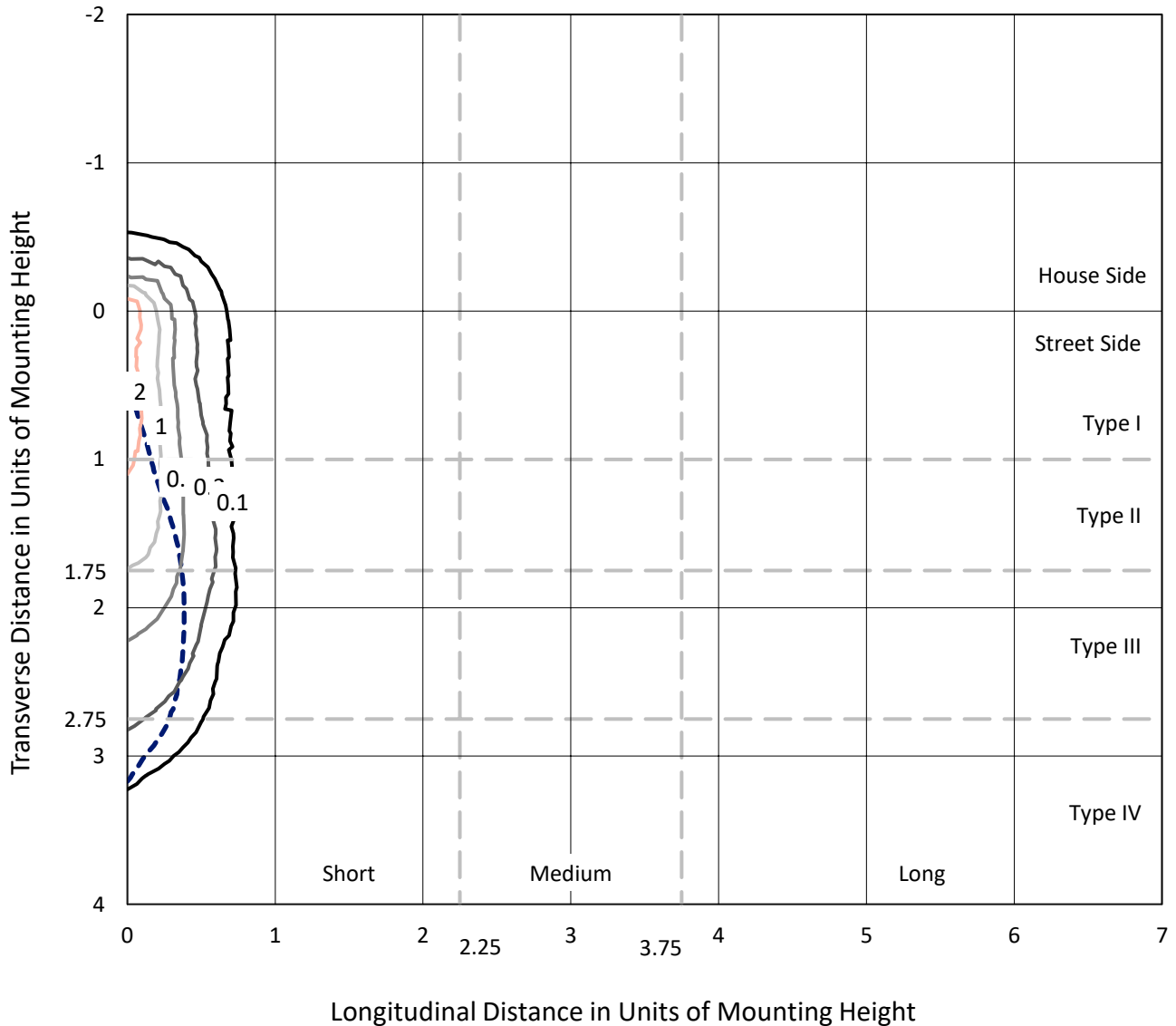
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

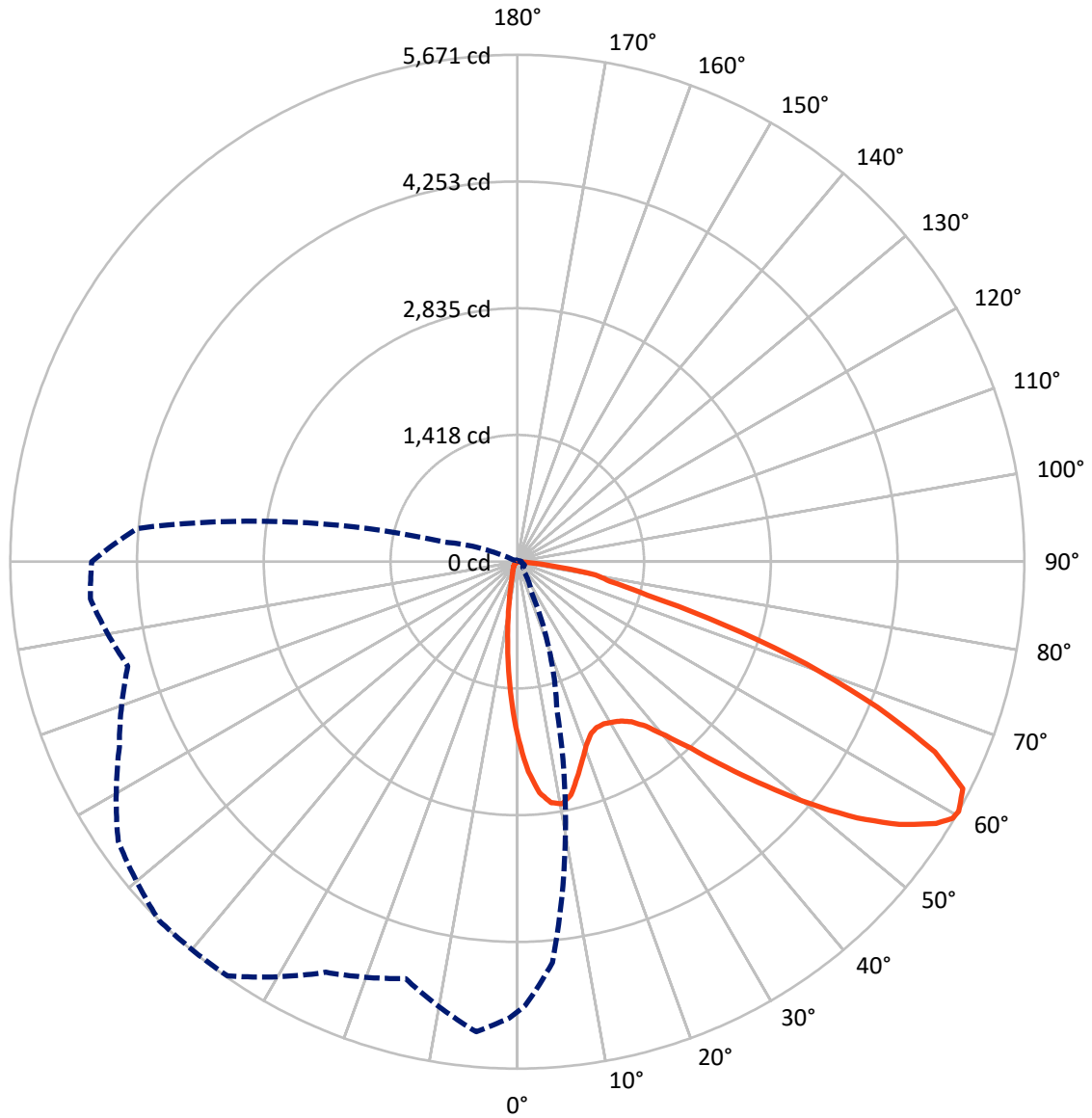
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	745.1	0.0	745.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5295.9	0.0	5295.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	6041.0	0.0	6041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	2.5
10°-20°	294.9	4.9
20°-30°	432.4	7.2
30°-40°	643.1	10.6
40°-50°	935.9	15.5
50°-60°	1349.7	22.3
60°-70°	1484.5	24.6
70°-80°	664.9	11.0
80°-90°	86.9	1.4
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°	6041.0	100.0
0°-180°	6041.0	100.0

Coefficient of Utilization

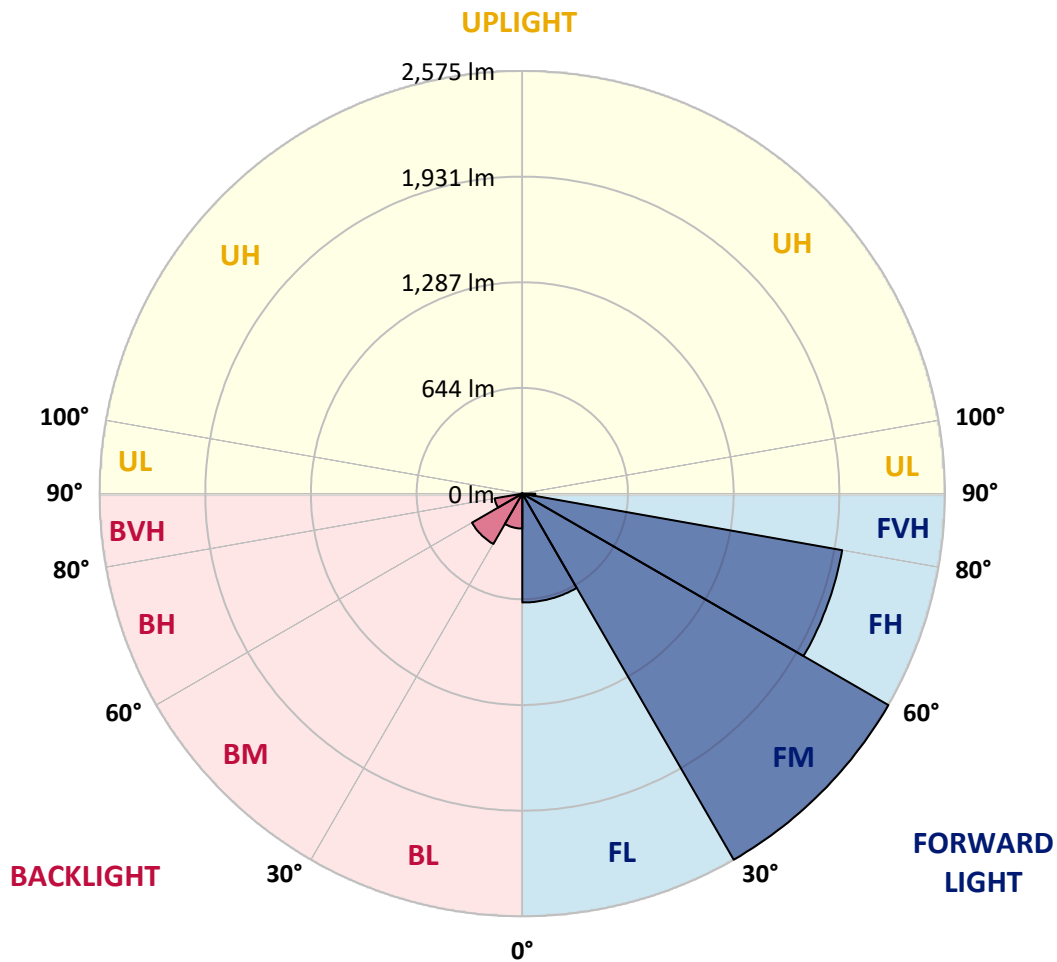


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.0	11.0			
FM (30°-60°)	2574.9	42.6			
FH (60°-80°)	1978.6	32.8			G2/5000
FVH (80°-90°)	79.5	1.3			G1/100
BL (0°-30°)	212.9	3.5	B1/500		
BM (30°-60°)	353.9	5.9	B1/1000		
BH (60°-80°)	170.9	2.8	B1/500		G1/500
BVH (80°-90°)	7.4	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6
2.5°	2195.0	2185.4	2163.3	2096.3	2038.0	1961.7	1884.6	1824.0	1786.8	1718.4	1687.1
5°	2126.6	2131.2	2067.4	1929.6	1776.2	1671.5	1557.2	1466.3	1366.1	1302.8	1236.2
7.5°	1948.0	1938.8	1869.4	1677.5	1491.0	1339.5	1194.9	1077.3	1003.4	944.1	894.5
10°	1795.0	1788.2	1699.5	1452.5	1252.3	1138.8	1041.0	938.2	858.7	771.9	702.6
12.5°	1699.1	1683.5	1581.5	1323.4	1160.4	1054.8	948.3	841.3	731.5	643.8	559.8
15°	1666.9	1644.4	1531.0	1278.9	1101.6	967.6	833.9	710.9	584.6	487.7	424.3
17.5°	1725.2	1688.0	1567.3	1271.1	1031.4	853.7	689.3	529.0	397.7	323.7	284.7
20°	1858.9	1816.2	1659.1	1263.3	953.3	726.0	524.0	373.8	275.1	234.7	213.1
22.5°	2057.3	1998.5	1795.0	1275.7	881.2	601.6	378.4	264.0	218.6	193.3	178.2
25°	2295.6	2246.4	1967.2	1319.8	824.3	503.8	292.5	215.8	184.1	168.5	157.0
27.5°	2556.9	2478.3	2190.0	1372.6	772.4	428.0	256.7	192.9	163.9	149.7	143.7
30°	2742.9	2681.8	2376.4	1409.3	707.6	371.0	234.7	190.1	164.4	147.4	136.4
32.5°	2926.5	2848.5	2532.5	1426.3	660.3	331.5	203.0	165.8	144.2	135.5	124.4
35°	3123.1	3041.3	2688.2	1417.1	625.0	305.4	184.1	147.9	123.5	108.8	97.8
37.5°	3321.9	3235.6	2843.0	1384.1	602.9	294.8	169.4	140.5	116.6	101.5	89.5
40°	3557.9	3442.7	2988.1	1357.0	580.0	289.3	159.8	135.9	111.6	95.5	83.6
42.5°	3750.8	3641.1	3125.4	1342.7	564.4	276.4	159.8	132.3	108.4	90.5	78.1
45°	3933.6	3819.7	3273.7	1354.2	557.9	260.4	161.6	131.8	106.1	86.8	74.4
47.5°	4086.5	3987.8	3426.2	1397.4	549.7	242.9	152.0	138.2	104.7	83.6	70.7
50°	4267.0	4171.4	3627.7	1484.6	535.0	225.5	140.1	148.8	104.2	80.8	67.5
52.5°	4521.4	4418.0	3906.0	1583.8	511.6	198.8	129.0	147.4	102.4	76.2	64.3
55°	4832.2	4748.7	4228.4	1702.7	479.4	169.0	111.6	130.9	96.9	68.4	58.8
57.5°	5031.5	4960.4	4469.9	1754.2	430.3	138.2	98.3	109.8	88.6	61.1	52.3
59°	5055.0	4990.7	4520.4	1737.2	398.1	126.3	91.8	94.1	86.3	56.9	48.7
60°	5035.2	4968.6	4500.2	1704.1	368.3	118.0	86.3	83.6	86.8	54.6	45.9
62.5°	4908.5	4794.6	4304.2	1536.5	321.9	108.4	76.7	68.4	76.7	49.1	40.9
65°	4663.7	4492.9	3916.1	1300.5	303.5	102.9	65.2	57.4	58.3	43.2	35.4
67.5°	4236.2	4020.8	3399.5	1056.6	295.7	103.3	55.1	51.4	45.0	36.7	31.2
70°	3560.2	3345.3	2727.7	869.3	292.1	103.3	46.8	44.1	37.7	30.8	27.1
72.5°	2522.9	2291.4	1840.0	682.8	263.1	102.9	40.0	40.0	30.8	25.7	22.0
75°	1425.4	1427.2	1156.7	483.1	218.6	85.0	32.1	31.7	22.5	19.7	16.5
77.5°	830.7	816.0	779.7	207.6	101.5	38.6	22.5	19.3	15.6	14.2	11.9
80°	427.1	351.3	342.1	75.3	36.3	24.3	15.6	11.0	10.1	9.2	8.3
82.5°	126.3	126.7	113.0	30.3	20.2	16.1	7.8	6.0	5.5	5.1	5.1
85°	8.7	5.5	6.4	9.2	12.4	6.4	0.5	1.4	1.4	1.8	2.3
87.5°	0.9	0.5	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°	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6
2.5°	1652.7	1672.9	1635.2	1636.2	1604.9	1615.0	1578.3	1590.2	1568.7	1585.2	1633.9
5°	1243.5	1248.1	1217.8	1208.2	1212.8	1231.6	1238.9	1205.4	1219.7	1191.6	1189.8
7.5°	876.2	881.7	864.2	861.9	895.0	887.2	901.4	867.0	834.4	848.6	822.4
10°	680.5	657.6	621.8	611.7	605.2	609.4	609.4	578.1	573.6	561.2	580.0
12.5°	537.3	509.3	475.3	429.4	417.9	417.0	400.0	372.4	363.7	353.1	368.7
15°	390.3	378.8	350.4	324.7	298.5	293.4	265.9	243.4	213.5	209.4	208.0
17.5°	274.6	257.6	257.2	242.5	227.3	217.2	191.5	165.8	154.3	152.9	152.9
20°	205.7	199.8	190.1	188.3	183.7	172.2	149.2	135.5	130.0	130.4	132.3
22.5°	173.1	169.0	160.3	156.1	154.3	144.2	127.2	118.0	115.3	115.3	115.7
25°	154.8	151.1	141.4	135.0	132.7	125.4	112.0	105.2	102.9	102.9	102.9
27.5°	141.0	136.4	126.3	120.8	116.6	108.4	100.1	93.2	90.9	90.9	91.4
30°	131.3	126.3	117.1	109.8	103.3	96.0	89.1	83.1	80.4	79.9	80.4
32.5°	118.5	113.9	104.7	100.1	92.8	84.0	78.5	73.0	70.3	70.7	70.3
35°	92.3	90.9	84.5	85.9	81.7	74.4	69.3	63.4	60.2	59.7	60.6
37.5°	84.0	78.5	71.2	71.6	70.3	67.5	59.2	52.8	50.5	50.5	51.0
40°	77.6	72.1	63.8	59.7	60.2	60.2	51.4	44.5	42.2	41.8	42.7
42.5°	72.1	66.6	57.4	50.5	48.7	51.0	43.6	36.7	34.4	33.5	34.4
45°	68.4	62.5	51.9	44.1	38.6	41.3	35.8	30.3	27.6	27.6	27.1
47.5°	64.7	59.2	47.8	38.1	32.1	30.8	29.4	24.3	21.6	21.1	21.6
50°	61.5	56.0	43.2	33.1	27.1	23.9	23.9	19.3	17.4	16.5	17.0
52.5°	58.3	52.3	39.0	29.4	23.4	19.3	17.0	15.6	14.2	13.8	14.2
55°	53.7	47.8	34.9	25.3	20.2	16.1	13.3	12.9	11.9	11.0	11.9
57.5°	48.2	42.7	30.8	21.6	16.1	12.4	11.0	10.6	9.6	9.2	9.2
59°	45.0	40.0	28.5	18.8	14.2	11.0	10.1	9.6	8.7	7.8	8.3
60°	43.2	39.0	27.1	17.4	12.9	10.1	9.2	8.7	7.8	7.3	7.8
62.5°	38.1	34.9	23.9	14.2	10.1	7.3	6.4	6.9	6.4	6.0	6.4
65°	33.5	30.8	20.2	11.0	7.8	5.1	4.6	6.0	5.5	5.1	5.5
67.5°	29.8	26.6	17.0	8.3	5.5	2.8	3.2	5.1	5.1	4.6	5.1
70°	25.7	23.0	13.8	6.0	2.8	1.4	2.3	3.7	4.6	4.1	4.6
72.5°	21.1	17.9	10.6	4.1	1.4	0.0	1.4	3.2	4.6	4.1	4.6
75°	16.5	13.3	7.8	2.3	0.0	0.0	0.5	2.8	4.6	4.1	4.6
77.5°	11.9	9.6	4.6	0.5	0.0	0.0	0.5	2.8	4.6	4.1	4.6
80°	7.8	6.9	1.8	0.0	0.0	0.0	0.5	2.8	4.6	4.6	5.1
82.5°	5.1	3.7	0.0	0.0	0.0	0.0	0.9	3.7	5.1	5.5	5.5
85°	2.3	0.0	0.0	0.0	0.0	0.0	1.8	4.6	6.0	6.0	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	3.2	5.5	6.9	6.9	6.9
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°	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6
2.5°	1642.1	1671.1	1711.9	1774.8	1825.8	1906.2	1967.7	2051.7	2136.7	2162.4	2202.4
5°	1208.6	1245.8	1338.6	1423.1	1476.4	1646.3	1753.7	1923.2	2075.2	2148.2	2227.6
7.5°	839.4	883.5	954.2	1072.3	1184.3	1322.5	1496.1	1689.9	1912.6	2016.8	2128.9
10°	589.2	644.3	743.9	840.8	981.8	1113.1	1284.4	1498.4	1744.1	1867.1	2007.7
12.5°	372.0	421.1	552.9	661.7	837.6	990.1	1148.0	1341.8	1626.5	1752.8	1900.2
15°	212.6	253.9	315.5	455.1	650.2	851.8	1048.8	1273.8	1566.4	1722.0	1881.4
17.5°	158.4	169.4	197.0	276.0	453.7	689.3	957.4	1253.2	1607.2	1790.0	1971.8
20°	133.2	140.5	153.4	184.6	289.3	530.8	868.4	1256.9	1739.5	1969.1	2141.7
22.5°	119.4	124.0	134.5	154.8	197.5	386.7	764.1	1278.4	1899.7	2189.0	2388.3
25°	104.7	110.7	119.9	137.3	164.4	268.2	661.3	1326.7	2124.3	2468.2	2655.6
27.5°	93.2	98.7	107.9	124.0	144.2	204.8	541.4	1368.0	2361.2	2749.3	2902.7
30°	81.7	87.2	96.4	109.3	127.7	165.8	412.4	1392.3	2591.3	2960.1	3078.1
32.5°	72.1	76.7	85.4	96.9	112.0	140.5	325.1	1367.1	2767.2	3151.5	3230.5
35°	62.5	68.0	75.3	85.9	99.2	119.9	270.5	1279.8	2918.3	3348.5	3377.0
37.5°	52.3	58.8	66.6	76.2	86.8	110.2	217.2	1183.4	3079.9	3594.2	3547.4
40°	44.1	50.1	57.4	68.0	77.6	101.0	167.2	1080.5	3254.4	3824.7	3733.4
42.5°	35.8	42.2	51.0	60.6	76.7	88.2	129.5	974.0	3411.0	4025.4	3901.4
45°	28.5	34.0	43.2	55.6	76.2	75.8	100.1	868.8	3529.0	4168.7	4026.8
47.5°	22.5	27.1	36.3	54.2	70.3	64.3	80.4	803.6	3653.0	4297.7	4122.8
50°	17.9	22.5	31.2	56.5	61.5	55.1	67.5	814.2	3772.9	4363.4	4162.3
52.5°	15.2	19.7	27.1	44.5	47.3	48.2	59.2	862.9	3927.6	4433.7	4240.8
55°	13.3	17.4	23.0	31.2	36.7	43.2	54.2	898.2	4134.7	4584.3	4413.9
57.5°	10.6	15.2	20.7	26.6	30.3	37.7	50.1	901.0	4322.1	4777.6	4644.0
59°	9.6	13.8	19.3	25.3	27.1	34.0	47.3	877.5	4329.0	4806.5	4749.6
60°	8.7	13.3	18.4	23.4	25.7	32.1	45.0	850.5	4266.5	4760.6	4793.2
62.5°	7.3	11.5	16.1	18.8	22.0	26.6	39.0	752.2	3963.9	4552.6	4712.4
65°	6.4	10.1	13.8	15.6	18.4	23.0	34.4	602.0	3629.6	4270.6	4481.0
67.5°	6.0	9.2	11.9	13.3	16.1	21.1	30.8	425.2	3196.5	3912.9	4133.3
70°	5.5	8.7	10.6	12.4	14.2	17.9	26.2	248.0	2462.3	3285.6	3518.5
72.5°	5.5	8.3	9.2	10.6	12.4	16.1	24.3	134.1	1683.5	2506.4	2807.1
75°	5.5	7.8	8.3	9.2	11.0	14.7	21.6	70.3	1088.3	1741.3	2149.1
77.5°	5.5	7.3	8.3	8.7	10.6	12.9	18.8	44.1	725.1	1219.7	1452.5
80°	6.0	7.3	7.8	8.7	10.1	11.9	15.6	29.4	426.1	733.8	884.0
82.5°	6.4	7.3	8.3	9.2	10.6	11.5	13.8	18.4	196.5	485.4	549.2
85°	6.9	7.8	8.7	9.6	11.0	11.5	12.9	13.3	32.1	219.0	296.2
87.5°	7.3	8.3	9.2	10.1	11.9	11.9	11.9	11.9	11.0	23.4	59.7
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°	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6	1996.6
2.5°	2252.9	2304.8	2341.0	2350.2	2324.1	2312.1	2279.0	2227.6	2196.4	2195.0
5°	2374.1	2495.8	2580.3	2594.5	2544.0	2458.6	2357.1	2226.2	2149.6	2126.6
7.5°	2353.4	2566.5	2702.4	2722.2	2637.2	2474.2	2277.7	2066.9	1983.3	1948.0
10°	2268.5	2528.4	2722.6	2753.9	2640.4	2410.8	2161.0	1925.9	1822.1	1795.0
12.5°	2195.9	2458.6	2631.3	2674.4	2588.6	2359.4	2091.2	1835.5	1724.3	1699.1
15°	2164.2	2375.9	2481.6	2503.6	2489.4	2327.3	2083.9	1821.7	1694.5	1666.9
17.5°	2195.9	2305.7	2319.0	2341.5	2373.2	2324.1	2154.6	1896.5	1759.2	1725.2
20°	2279.0	2244.6	2189.5	2199.1	2271.7	2337.4	2280.4	2062.3	1895.2	1858.9
22.5°	2420.5	2229.5	2104.6	2096.3	2188.1	2381.9	2465.0	2286.9	2093.1	2057.3
25°	2594.1	2267.6	2073.3	2055.4	2155.5	2447.1	2665.7	2561.9	2350.2	2295.6
27.5°	2783.3	2346.6	2073.3	2055.9	2152.8	2505.0	2837.4	2805.3	2616.6	2556.9
30°	2887.0	2411.8	2103.2	2083.4	2186.7	2538.5	2929.3	3021.6	2816.8	2742.9
32.5°	2979.8	2502.2	2161.5	2124.3	2257.9	2588.1	3011.5	3205.3	2976.1	2926.5
35°	3065.2	2599.1	2241.9	2198.7	2351.6	2656.1	3102.4	3398.1	3197.9	3123.1
37.5°	3159.4	2711.6	2367.2	2330.5	2508.2	2788.3	3210.3	3651.6	3416.0	3321.9
40°	3261.8	2842.0	2573.4	2557.8	2757.1	2938.0	3346.7	3922.1	3664.9	3557.9
42.5°	3366.0	2992.2	2826.0	2851.7	3039.0	3147.9	3486.8	4130.1	3868.8	3750.8
45°	3460.6	3184.1	3154.3	3281.5	3367.8	3352.7	3590.5	4276.6	4046.5	3933.6
47.5°	3580.0	3463.8	3551.5	3747.6	3749.9	3575.4	3669.1	4396.5	4199.5	4086.5
50°	3713.6	3794.0	4064.5	4264.2	4210.5	3794.4	3760.9	4538.4	4357.4	4267.0
52.5°	3868.4	4163.6	4538.4	4760.2	4634.8	4033.2	3913.8	4691.7	4608.2	4521.4
55°	4048.4	4415.7	5010.9	5187.7	5061.4	4329.9	4146.2	4899.8	4891.5	4832.2
57.5°	4251.8	4682.1	5284.6	5523.8	5411.3	4678.0	4470.9	5095.8	5064.6	5031.5
59°	4412.5	4818.9	5405.3	5653.3	5585.3	4921.8	4689.0	5218.0	5104.6	5055.0
60°	4509.9	4911.7	5449.9	5670.8	5655.1	5066.9	4827.2	5277.7	5104.1	5035.2
62.5°	4798.7	5073.8	5432.9	5593.2	5654.2	5345.2	5232.7	5343.3	5009.5	4908.5
65°	4901.6	5020.1	5151.4	5131.7	5184.0	5330.9	5491.7	5271.2	4807.4	4663.7
67.5°	4701.4	4430.9	4477.3	4345.5	4319.8	4739.5	5386.5	4918.6	4412.1	4236.2
70°	3963.0	3394.5	3371.0	3431.7	3265.4	3837.1	4836.8	4239.4	3759.5	3560.2
72.5°	3119.4	2398.9	2201.4	2424.6	2419.6	2927.5	4018.1	3008.3	2539.9	2522.9
75°	2453.1	1670.1	1465.8	1502.1	1571.9	2119.2	3200.2	1910.3	1564.1	1425.4
77.5°	1646.7	1183.4	1103.9	1059.4	1134.7	1360.6	2024.6	1036.0	877.1	830.7
80°	949.2	859.6	976.3	886.3	926.7	857.3	1007.0	475.3	394.5	427.1
82.5°	617.6	489.5	521.7	387.6	529.9	534.5	323.3	140.5	118.9	126.3
85°	386.2	229.6	129.0	91.8	182.8	336.1	101.0	8.7	10.1	8.7
87.5°	100.1	38.1	16.1	23.9	29.4	26.2	23.4	1.4	0.5	0.9
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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