

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: P450958

Luminaire Tested: **GALN-SA1D-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450958
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-SA1D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5621 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): 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

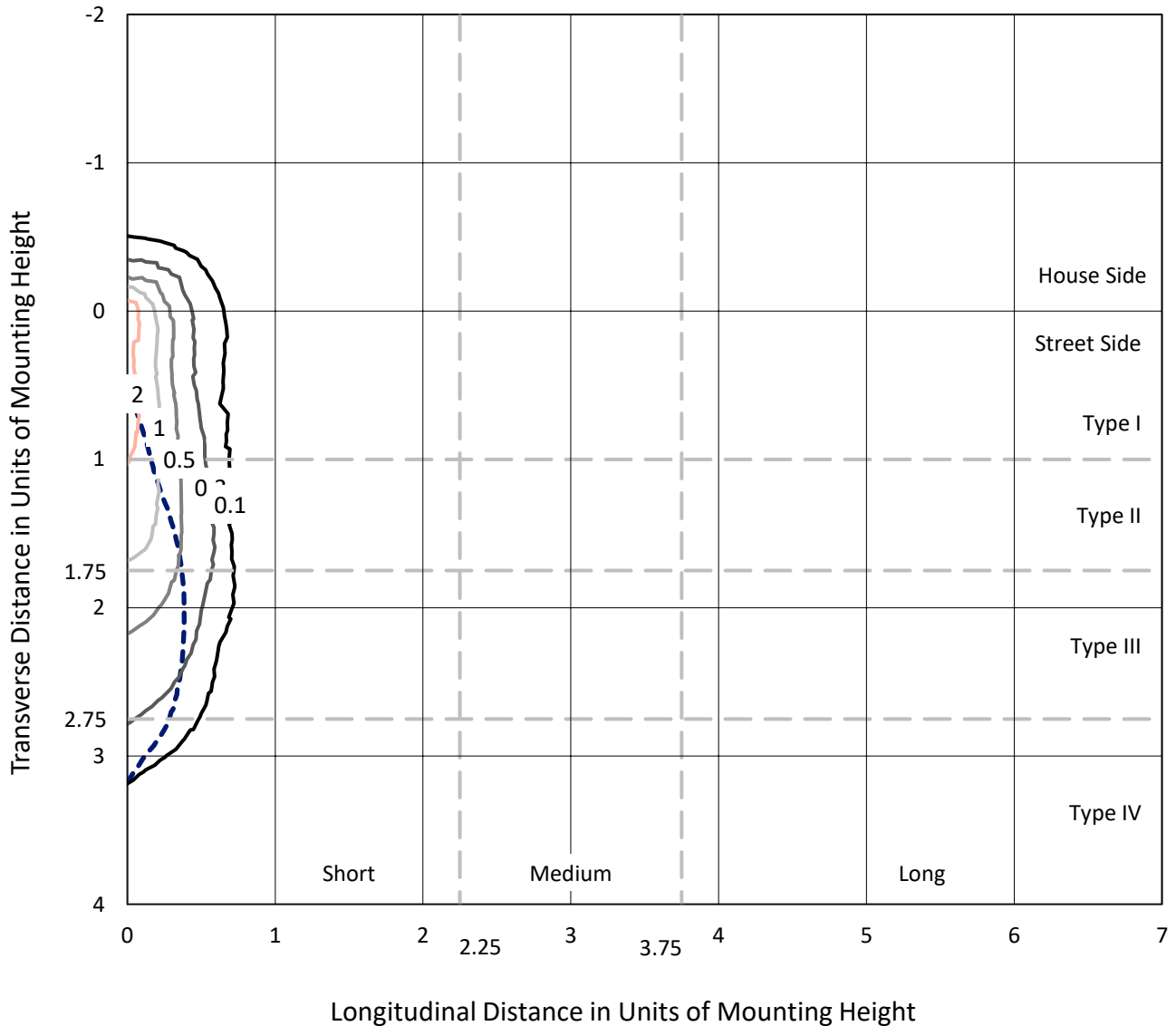




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Iso-Footcandle Lines of Horizontal Illumination

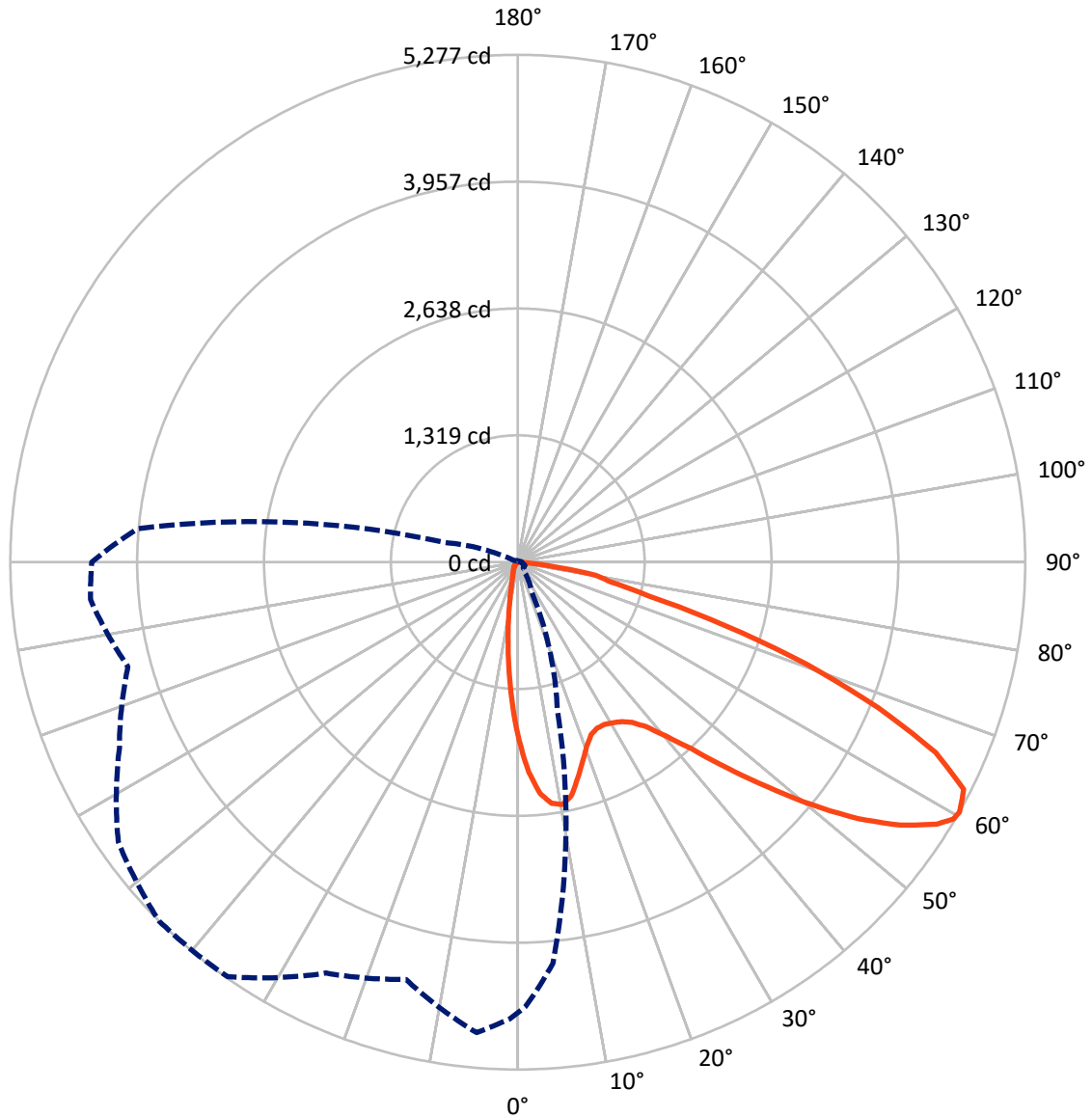
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	693.3	0.0	693.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4927.7	0.0	4927.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	5621.0	0.0	5621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	2.5
10°-20°	274.4	4.9
20°-30°	402.4	7.2
30°-40°	598.4	10.6
40°-50°	870.9	15.5
50°-60°	1255.9	22.3
60°-70°	1381.3	24.6
70°-80°	618.7	11.0
80°-90°	80.8	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°	5621.0	100.0
0°-180°	5621.0	100.0

Coefficient of Utilization



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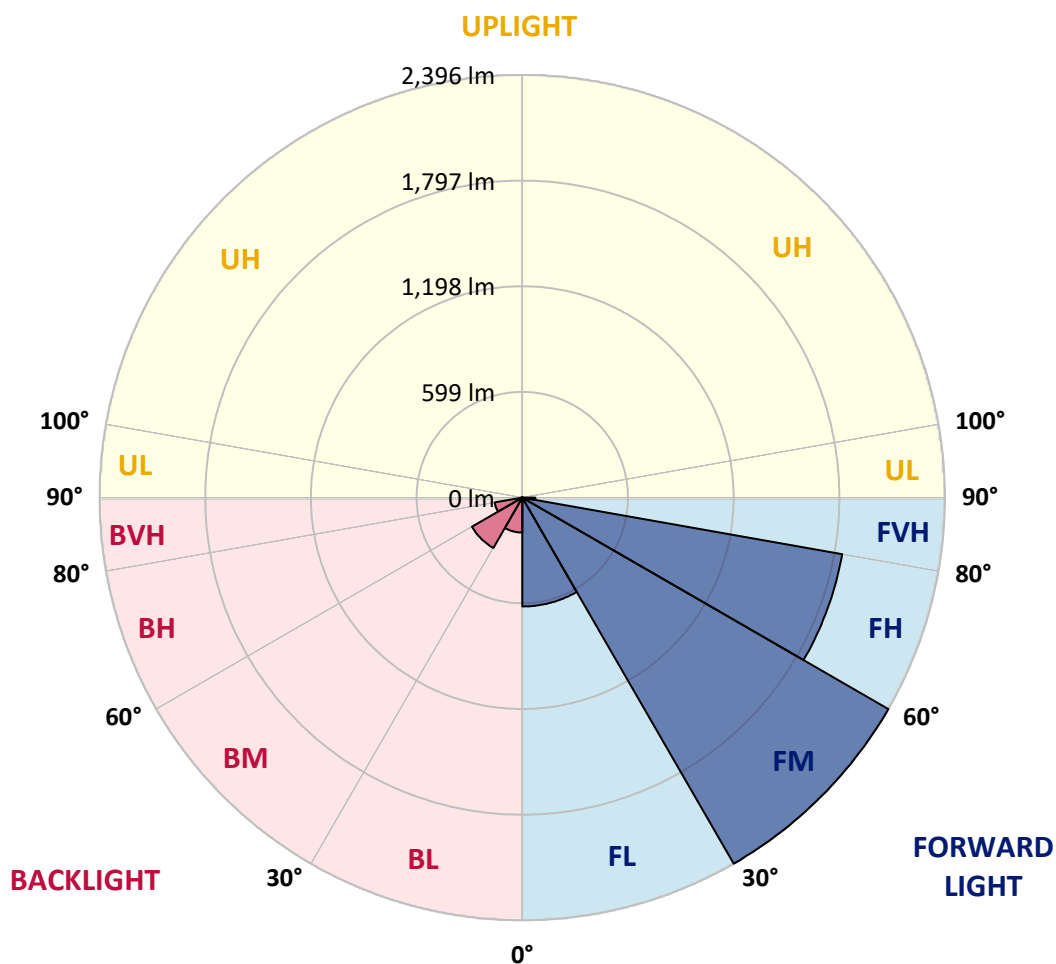
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.9	11.0			
FM (30°-60°)	2395.8	42.6			
FH (60°-80°)	1841.0	32.8			G2/5000
FVH (80°-90°)	73.9	1.3			G1/100
BL (0°-30°)	198.1	3.5	B1/500		
BM (30°-60°)	329.3	5.9	B1/1000		
BH (60°-80°)	159.0	2.8	B1/500		G1/500
BVH (80°-90°)	6.9	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°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	2042.4	2033.4	2012.9	1950.5	1896.3	1825.3	1753.6	1697.2	1662.6	1598.9	1569.8
5°	1978.7	1983.0	1923.6	1795.4	1652.7	1555.3	1448.9	1364.3	1271.2	1212.2	1150.2
7.5°	1812.5	1804.0	1739.5	1560.9	1387.4	1246.4	1111.8	1002.4	933.6	878.5	832.3
10°	1670.2	1663.8	1581.4	1351.5	1165.2	1059.7	968.6	872.9	799.0	718.3	653.7
12.5°	1580.9	1566.4	1471.6	1231.4	1079.7	981.5	882.3	782.8	680.7	599.0	520.9
15°	1551.0	1530.1	1424.6	1190.0	1025.0	900.3	775.9	661.4	543.9	453.8	394.8
17.5°	1605.3	1570.7	1458.3	1182.7	959.7	794.3	641.3	492.2	370.0	301.2	264.9
20°	1729.6	1689.9	1543.8	1175.5	887.0	675.5	487.5	347.8	255.9	218.3	198.3
22.5°	1914.2	1859.5	1670.2	1187.0	820.0	559.7	352.1	245.7	203.4	179.9	165.8
25°	2136.0	2090.3	1830.5	1228.0	767.0	468.7	272.2	200.8	171.3	156.8	146.1
27.5°	2379.1	2306.0	2037.7	1277.1	718.7	398.2	238.9	179.5	152.5	139.3	133.7
30°	2552.2	2495.3	2211.2	1311.3	658.4	345.2	218.3	176.9	153.0	137.2	126.9
32.5°	2723.1	2650.4	2356.5	1327.1	614.4	308.5	188.9	154.2	134.2	126.0	115.8
35°	2905.9	2829.9	2501.3	1318.6	581.5	284.1	171.3	137.6	114.9	101.3	91.0
37.5°	3091.0	3010.6	2645.3	1287.8	561.0	274.3	157.7	130.7	108.5	94.4	83.3
40°	3310.6	3203.3	2780.3	1262.6	539.7	269.2	148.7	126.5	103.8	88.9	77.8
42.5°	3490.0	3387.9	2908.1	1249.4	525.1	257.2	148.7	123.1	100.8	84.2	72.6
45°	3660.1	3554.1	3046.1	1260.1	519.1	242.3	150.4	122.6	98.7	80.8	69.2
47.5°	3802.4	3710.5	3187.9	1300.2	511.5	226.0	141.4	128.6	97.4	77.8	65.8
50°	3970.3	3881.4	3375.5	1381.4	497.8	209.8	130.3	138.4	97.0	75.2	62.8
52.5°	4207.0	4110.9	3634.5	1473.7	476.0	185.0	120.1	137.2	95.3	70.9	59.8
55°	4496.3	4418.5	3934.4	1584.4	446.1	157.2	103.8	121.8	90.2	63.7	54.7
57.5°	4681.7	4615.5	4159.2	1632.2	400.4	128.6	91.4	102.1	82.5	56.8	48.7
59°	4703.5	4643.7	4206.2	1616.4	370.5	117.5	85.5	87.6	80.3	53.0	45.3
60°	4685.1	4623.2	4187.4	1585.6	342.7	109.8	80.3	77.8	80.8	50.8	42.7
62.5°	4567.2	4461.2	4004.9	1429.7	299.5	100.8	71.4	63.7	71.4	45.7	38.0
65°	4339.5	4180.5	3643.9	1210.1	282.4	95.7	60.7	53.4	54.3	40.2	32.9
67.5°	3941.7	3741.3	3163.2	983.2	275.2	96.1	51.3	47.9	41.9	34.2	29.1
70°	3312.7	3112.7	2538.1	808.8	271.8	96.1	43.6	41.0	35.0	28.6	25.2
72.5°	2347.5	2132.1	1712.1	635.4	244.8	95.7	37.2	37.2	28.6	23.9	20.5
75°	1326.3	1328.0	1076.3	449.5	203.4	79.0	29.9	29.5	20.9	18.4	15.4
77.5°	773.0	759.3	725.5	193.1	94.4	35.9	20.9	17.9	14.5	13.2	11.1
80°	397.4	326.9	318.3	70.1	33.8	22.6	14.5	10.3	9.4	8.5	7.7
82.5°	117.5	117.9	105.1	28.2	18.8	15.0	7.3	5.6	5.1	4.7	4.7
85°	8.1	5.1	6.0	8.5	11.5	6.0	0.4	1.3	1.3	1.7	2.1
87.5°	0.9	0.4	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°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1537.8	1556.6	1521.6	1522.4	1493.3	1502.7	1468.6	1479.7	1459.6	1475.0	1520.3
5°	1157.1	1161.4	1133.2	1124.2	1128.5	1146.0	1152.8	1121.6	1134.9	1108.8	1107.1
7.5°	815.3	820.4	804.1	802.0	832.8	825.5	838.8	806.7	776.4	789.6	765.3
10°	633.2	611.9	578.5	569.1	563.2	567.0	567.0	537.9	533.7	522.1	539.7
12.5°	499.9	473.9	442.2	399.5	388.8	388.0	372.2	346.5	338.4	328.6	343.1
15°	363.2	352.5	326.0	302.1	277.7	273.0	247.4	226.5	198.7	194.8	193.6
17.5°	255.5	239.7	239.3	225.6	211.5	202.1	178.2	154.2	143.6	142.3	142.3
20°	191.4	185.9	176.9	175.2	170.9	160.2	138.9	126.0	120.9	121.3	123.1
22.5°	161.1	157.2	149.1	145.3	143.6	134.2	118.4	109.8	107.2	107.2	107.7
25°	144.0	140.6	131.6	125.6	123.5	116.6	104.3	97.8	95.7	95.7	95.7
27.5°	131.2	126.9	117.5	112.4	108.5	100.8	93.1	86.7	84.6	84.6	85.0
30°	122.2	117.5	109.0	102.1	96.1	89.3	82.9	77.3	74.8	74.3	74.8
32.5°	110.2	106.0	97.4	93.1	86.3	78.2	73.1	67.9	65.4	65.8	65.4
35°	85.9	84.6	78.6	79.9	76.1	69.2	64.5	59.0	56.0	55.5	56.4
37.5°	78.2	73.1	66.2	66.7	65.4	62.8	55.1	49.1	47.0	47.0	47.4
40°	72.2	67.1	59.4	55.5	56.0	56.0	47.9	41.4	39.3	38.9	39.7
42.5°	67.1	62.0	53.4	47.0	45.3	47.4	40.6	34.2	32.0	31.2	32.0
45°	63.7	58.1	48.3	41.0	35.9	38.5	33.3	28.2	25.6	25.6	25.2
47.5°	60.2	55.1	44.4	35.5	29.9	28.6	27.3	22.6	20.1	19.7	20.1
50°	57.3	52.1	40.2	30.8	25.2	22.2	22.2	17.9	16.2	15.4	15.8
52.5°	54.3	48.7	36.3	27.3	21.8	17.9	15.8	14.5	13.2	12.8	13.2
55°	50.0	44.4	32.5	23.5	18.8	15.0	12.4	12.0	11.1	10.3	11.1
57.5°	44.9	39.7	28.6	20.1	15.0	11.5	10.3	9.8	9.0	8.5	8.5
59°	41.9	37.2	26.5	17.5	13.2	10.3	9.4	9.0	8.1	7.3	7.7
60°	40.2	36.3	25.2	16.2	12.0	9.4	8.5	8.1	7.3	6.8	7.3
62.5°	35.5	32.5	22.2	13.2	9.4	6.8	6.0	6.4	6.0	5.6	6.0
65°	31.2	28.6	18.8	10.3	7.3	4.7	4.3	5.6	5.1	4.7	5.1
67.5°	27.8	24.8	15.8	7.7	5.1	2.6	3.0	4.7	4.7	4.3	4.7
70°	23.9	21.4	12.8	5.6	2.6	1.3	2.1	3.4	4.3	3.8	4.3
72.5°	19.7	16.7	9.8	3.8	1.3	0.0	1.3	3.0	4.3	3.8	4.3
75°	15.4	12.4	7.3	2.1	0.0	0.0	0.4	2.6	4.3	3.8	4.3
77.5°	11.1	9.0	4.3	0.4	0.0	0.0	0.4	2.6	4.3	3.8	4.3
80°	7.3	6.4	1.7	0.0	0.0	0.0	0.4	2.6	4.3	4.3	4.7
82.5°	4.7	3.4	0.0	0.0	0.0	0.0	0.9	3.4	4.7	5.1	5.1
85°	2.1	0.0	0.0	0.0	0.0	0.0	1.7	4.3	5.6	5.6	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	3.0	5.1	6.4	6.4	6.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1528.0	1554.9	1592.9	1651.4	1698.9	1773.6	1830.9	1909.1	1988.1	2012.1	2049.2
5°	1124.6	1159.2	1245.5	1324.1	1373.7	1531.8	1631.8	1789.5	1930.9	1998.8	2072.7
7.5°	781.1	822.1	887.9	997.7	1102.0	1230.6	1392.1	1572.4	1779.6	1876.6	1980.9
10°	548.2	599.5	692.2	782.4	913.5	1035.7	1195.1	1394.2	1622.8	1737.3	1868.1
12.5°	346.1	391.8	514.4	615.7	779.4	921.2	1068.2	1248.5	1513.4	1630.9	1768.1
15°	197.8	236.3	293.5	423.4	605.0	792.6	975.9	1185.3	1457.5	1602.3	1750.6
17.5°	147.4	157.7	183.3	256.8	422.2	641.3	890.9	1166.1	1495.5	1665.5	1834.7
20°	123.9	130.7	142.7	171.8	269.2	493.9	808.0	1169.5	1618.5	1832.2	1992.8
22.5°	111.1	115.4	125.2	144.0	183.7	359.8	711.0	1189.6	1767.7	2036.9	2222.3
25°	97.4	103.0	111.5	127.8	153.0	249.5	615.3	1234.4	1976.6	2296.6	2471.0
27.5°	86.7	91.9	100.4	115.4	134.2	190.6	503.8	1272.9	2197.1	2558.1	2700.8
30°	76.1	81.2	89.7	101.7	118.8	154.2	383.7	1295.5	2411.2	2754.3	2864.1
32.5°	67.1	71.4	79.5	90.2	104.3	130.7	302.5	1272.0	2574.8	2932.4	3005.9
35°	58.1	63.2	70.1	79.9	92.3	111.5	251.7	1190.8	2715.4	3115.7	3142.2
37.5°	48.7	54.7	62.0	70.9	80.8	102.5	202.1	1101.1	2865.8	3344.3	3300.8
40°	41.0	46.6	53.4	63.2	72.2	94.0	155.5	1005.4	3028.1	3558.8	3473.8
42.5°	33.3	39.3	47.4	56.4	71.4	82.0	120.5	906.3	3173.8	3745.6	3630.2
45°	26.5	31.6	40.2	51.7	70.9	70.5	93.1	808.4	3283.7	3878.9	3746.8
47.5°	20.9	25.2	33.8	50.4	65.4	59.8	74.8	747.7	3399.0	3998.9	3836.1
50°	16.7	20.9	29.1	52.6	57.3	51.3	62.8	757.6	3510.5	4060.0	3872.9
52.5°	14.1	18.4	25.2	41.4	44.0	44.9	55.1	802.9	3654.5	4125.4	3945.9
55°	12.4	16.2	21.4	29.1	34.2	40.2	50.4	835.8	3847.2	4265.6	4107.0
57.5°	9.8	14.1	19.2	24.8	28.2	35.0	46.6	838.3	4021.6	4445.4	4321.1
59°	9.0	12.8	17.9	23.5	25.2	31.6	44.0	816.5	4028.0	4472.4	4419.4
60°	8.1	12.4	17.1	21.8	23.9	29.9	41.9	791.3	3969.9	4429.6	4460.0
62.5°	6.8	10.7	15.0	17.5	20.5	24.8	36.3	699.9	3688.3	4236.1	4384.8
65°	6.0	9.4	12.8	14.5	17.1	21.4	32.0	560.2	3377.2	3973.7	4169.4
67.5°	5.6	8.5	11.1	12.4	15.0	19.7	28.6	395.7	2974.3	3640.9	3846.0
70°	5.1	8.1	9.8	11.5	13.2	16.7	24.4	230.7	2291.1	3057.2	3273.8
72.5°	5.1	7.7	8.5	9.8	11.5	15.0	22.6	124.8	1566.4	2332.1	2612.0
75°	5.1	7.3	7.7	8.5	10.3	13.7	20.1	65.4	1012.7	1620.3	1999.7
77.5°	5.1	6.8	7.7	8.1	9.8	12.0	17.5	41.0	674.7	1134.9	1351.5
80°	5.6	6.8	7.3	8.1	9.4	11.1	14.5	27.3	396.5	682.8	822.5
82.5°	6.0	6.8	7.7	8.5	9.8	10.7	12.8	17.1	182.9	451.6	511.0
85°	6.4	7.3	8.1	9.0	10.3	10.7	12.0	12.4	29.9	203.8	275.6
87.5°	6.8	7.7	8.5	9.4	11.1	11.1	11.1	11.1	10.3	21.8	55.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	2096.2	2144.5	2178.3	2186.8	2162.5	2151.4	2120.6	2072.7	2043.7	2042.4
5°	2209.0	2322.3	2400.9	2414.1	2367.1	2287.7	2193.2	2071.5	2000.1	1978.7
7.5°	2189.8	2388.1	2514.6	2532.9	2453.9	2302.2	2119.3	1923.2	1845.4	1812.5
10°	2110.8	2352.6	2533.4	2562.4	2456.9	2243.2	2010.8	1792.0	1695.5	1670.2
12.5°	2043.3	2287.7	2448.3	2488.5	2408.6	2195.4	1945.8	1707.8	1604.4	1580.9
15°	2013.8	2210.8	2309.0	2329.5	2316.3	2165.5	1939.0	1695.0	1576.7	1551.0
17.5°	2043.3	2145.4	2157.8	2178.7	2208.2	2162.5	2004.8	1764.7	1636.9	1605.3
20°	2120.6	2088.6	2037.3	2046.3	2113.8	2174.9	2121.9	1918.9	1763.4	1729.6
22.5°	2252.2	2074.5	1958.2	1950.5	2036.0	2216.3	2293.6	2127.9	1947.5	1914.2
25°	2413.7	2109.9	1929.2	1912.5	2005.7	2277.0	2480.4	2383.8	2186.8	2136.0
27.5°	2589.8	2183.4	1929.2	1912.9	2003.1	2330.8	2640.2	2610.3	2434.7	2379.1
30°	2686.3	2244.1	1957.0	1938.6	2034.7	2362.0	2725.6	2811.5	2620.9	2552.2
32.5°	2772.6	2328.3	2011.2	1976.6	2100.9	2408.2	2802.1	2982.4	2769.2	2723.1
35°	2852.1	2418.4	2086.0	2045.8	2188.1	2471.4	2886.7	3161.9	2975.6	2905.9
37.5°	2939.7	2523.1	2202.6	2168.5	2333.8	2594.5	2987.1	3397.7	3178.5	3091.0
40°	3035.0	2644.4	2394.5	2380.0	2565.4	2733.7	3114.0	3649.4	3410.1	3310.6
42.5°	3132.0	2784.2	2629.5	2653.4	2827.8	2929.0	3244.3	3843.0	3599.8	3490.0
45°	3220.0	2962.8	2935.0	3053.4	3133.7	3119.6	3340.9	3979.3	3765.2	3660.1
47.5°	3331.1	3223.0	3304.6	3487.0	3489.2	3326.8	3414.0	4090.8	3907.5	3802.4
50°	3455.4	3530.2	3781.9	3967.7	3917.7	3530.6	3499.4	4222.8	4054.5	3970.3
52.5°	3599.4	3874.2	4222.8	4429.2	4312.6	3752.8	3641.7	4365.5	4287.8	4207.0
55°	3766.9	4108.7	4662.5	4827.0	4709.5	4028.8	3857.9	4559.1	4551.4	4496.3
57.5°	3956.2	4356.6	4917.2	5139.8	5035.1	4352.7	4160.0	4741.5	4712.5	4681.7
59°	4105.7	4483.9	5029.5	5260.3	5197.0	4579.6	4363.0	4855.2	4749.7	4703.5
60°	4196.3	4570.2	5071.0	5276.5	5262.0	4714.6	4491.6	4910.7	4749.2	4685.1
62.5°	4465.1	4721.0	5055.2	5204.3	5261.1	4973.6	4868.9	4971.8	4661.2	4567.2
65°	4560.8	4671.0	4793.2	4774.9	4823.6	4960.3	5109.9	4904.8	4473.2	4339.5
67.5°	4374.5	4122.8	4166.0	4043.4	4019.4	4410.0	5012.0	4576.6	4105.3	3941.7
70°	3687.4	3158.5	3136.7	3193.1	3038.4	3570.4	4500.6	3944.7	3498.2	3312.7
72.5°	2902.5	2232.1	2048.4	2256.0	2251.3	2723.9	3738.7	2799.1	2363.3	2347.5
75°	2282.5	1554.0	1363.9	1397.6	1462.6	1971.9	2977.7	1777.5	1455.3	1326.3
77.5°	1532.2	1101.1	1027.2	985.7	1055.8	1266.0	1883.9	963.9	816.1	773.0
80°	883.2	799.9	908.4	824.7	862.3	797.7	937.0	442.2	367.0	397.4
82.5°	574.7	455.5	485.4	360.6	493.1	497.4	300.8	130.7	110.7	117.5
85°	359.3	213.6	120.1	85.5	170.1	312.8	94.0	8.1	9.4	8.1
87.5°	93.1	35.5	15.0	22.2	27.3	24.4	21.8	1.3	0.4	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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