

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: P458614

Luminaire Tested: **GALN-SA1D-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458614  
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-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 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: 5237 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

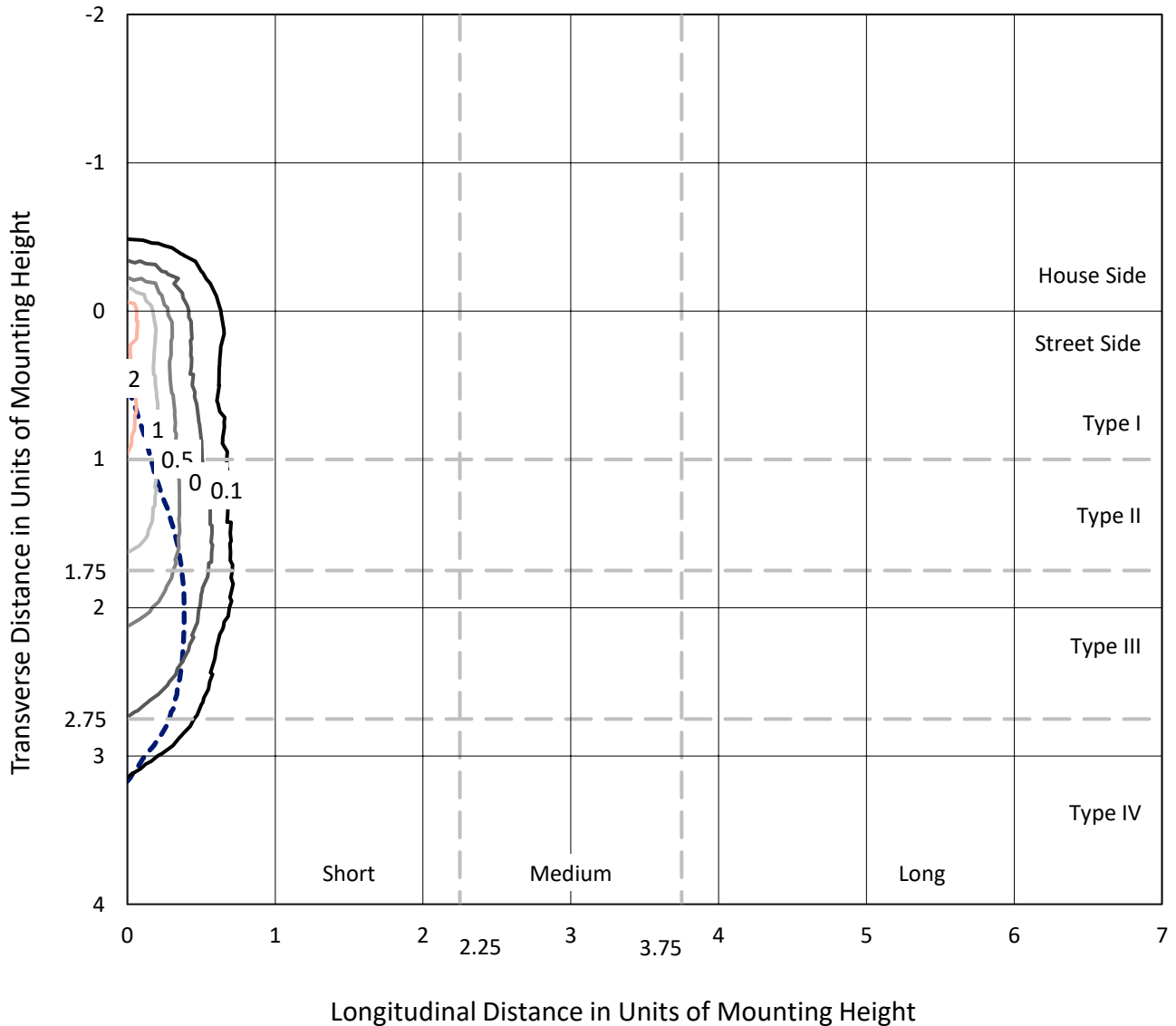
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

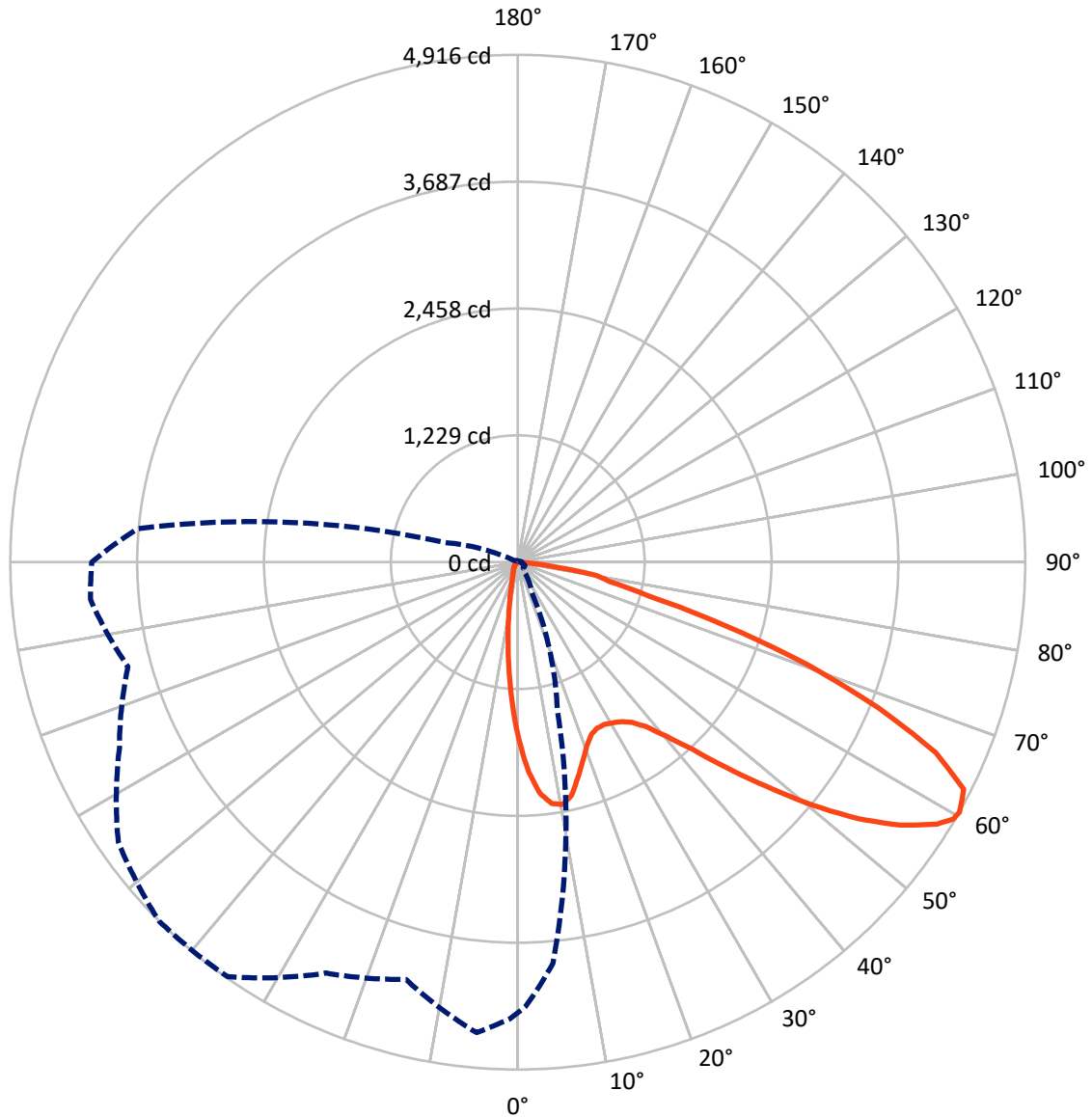
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
<b>House Side</b>	Lumens	646.0	0.0	646.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	4591.1	0.0	4591.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	5237.0	0.0	5237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	2.5
10°-20°	255.7	4.9
20°-30°	374.9	7.2
30°-40°	557.5	10.6
40°-50°	811.4	15.5
50°-60°	1170.1	22.3
60°-70°	1287.0	24.6
70°-80°	576.5	11.0
80°-90°	75.3	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°	5237.0	100.0
0°-180°	5237.0	100.0

**Coefficient of Utilization**



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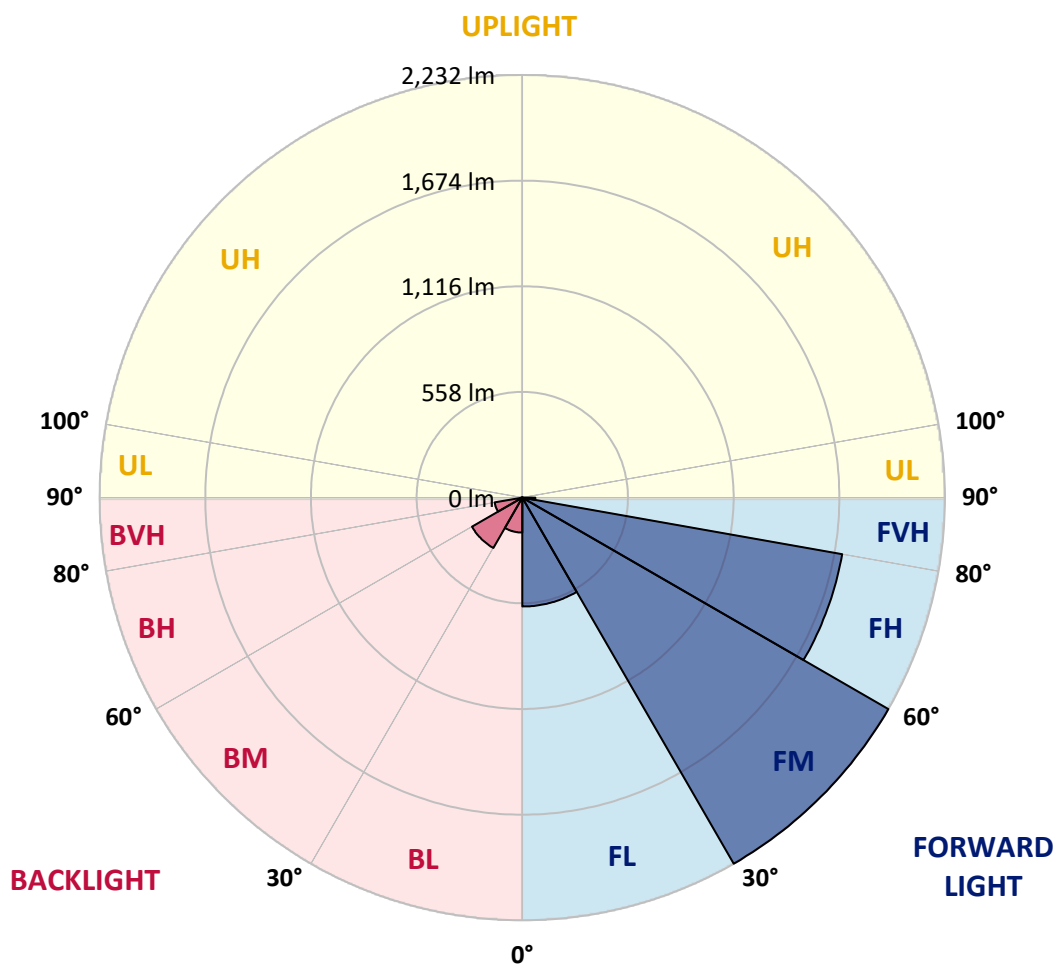
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.7	11.0			
FM	(30°-60°)	2232.2	42.6			
FH	(60°-80°)	1715.3	32.8			G1/1800
FVH	(80°-90°)	68.9	1.3			G1/100
BL	(0°-30°)	184.6	3.5	B1/500		
BM	(30°-60°)	306.8	5.9	B1/1000		
BH	(60°-80°)	148.1	2.8	B1/500		G1/500
BVH	(80°-90°)	6.4	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1902.9	1894.5	1875.4	1817.3	1766.7	1700.6	1633.8	1581.2	1549.0	1489.7	1462.6
5°	1843.6	1847.5	1792.2	1672.8	1539.8	1449.1	1349.9	1271.1	1184.3	1129.4	1071.7
7.5°	1688.7	1680.7	1620.6	1454.2	1292.6	1161.2	1035.8	933.9	869.8	818.5	775.5
10°	1556.1	1550.2	1473.3	1259.2	1085.6	987.3	902.5	813.3	744.4	669.2	609.1
12.5°	1472.9	1459.4	1371.0	1147.3	1006.0	914.4	822.1	729.3	634.2	558.1	485.3
15°	1445.1	1425.6	1327.2	1108.7	955.0	838.8	722.9	616.2	506.8	422.8	367.8
17.5°	1495.6	1463.4	1358.7	1101.9	894.1	740.1	597.5	458.6	344.7	280.7	246.8
20°	1611.5	1574.5	1438.3	1095.2	826.4	629.4	454.2	324.0	238.5	203.4	184.7
22.5°	1783.5	1732.5	1556.1	1105.9	763.9	521.5	328.0	228.9	189.5	167.6	154.5
25°	1990.1	1947.5	1705.4	1144.1	714.6	436.7	253.6	187.1	159.6	146.1	136.1
27.5°	2216.6	2148.5	1898.5	1189.9	669.6	371.0	222.5	167.2	142.1	129.8	124.6
30°	2377.8	2324.9	2060.1	1221.7	613.5	321.7	203.4	164.8	142.5	127.8	118.2
32.5°	2537.0	2469.4	2195.5	1236.5	572.5	287.4	176.0	143.7	125.0	117.4	107.9
35°	2707.4	2636.6	2330.4	1228.5	541.8	264.7	159.6	128.2	107.1	94.3	84.8
37.5°	2879.8	2805.0	2464.6	1199.8	522.7	255.6	146.9	121.8	101.1	88.0	77.6
40°	3084.4	2984.5	2590.4	1176.4	502.8	250.8	138.5	117.8	96.7	82.8	72.5
42.5°	3251.6	3156.5	2709.4	1164.0	489.3	239.7	138.5	114.7	93.9	78.4	67.7
45°	3410.1	3311.3	2838.0	1174.0	483.7	225.7	140.1	114.3	92.0	75.2	64.5
47.5°	3542.6	3457.0	2970.2	1211.4	476.5	210.6	131.8	119.8	90.8	72.5	61.3
50°	3699.1	3616.3	3144.9	1287.0	463.8	195.5	121.4	129.0	90.4	70.1	58.5
52.5°	3919.6	3830.0	3386.2	1373.0	443.5	172.4	111.9	127.8	88.8	66.1	55.7
55°	4189.1	4116.7	3665.6	1476.1	415.6	146.5	96.7	113.5	84.0	59.3	51.0
57.5°	4361.9	4300.2	3875.0	1520.7	373.0	119.8	85.2	95.1	76.8	52.9	45.4
59°	4382.2	4326.5	3918.8	1506.0	345.1	109.5	79.6	81.6	74.8	49.4	42.2
60°	4365.1	4307.4	3901.3	1477.3	319.3	102.3	74.8	72.5	75.2	47.4	39.8
62.5°	4255.2	4156.5	3731.3	1332.0	279.1	93.9	66.5	59.3	66.5	42.6	35.4
65°	4043.0	3894.9	3394.9	1127.4	263.1	89.2	56.5	49.8	50.6	37.4	30.7
67.5°	3672.4	3485.7	2947.1	916.0	256.4	89.6	47.8	44.6	39.0	31.8	27.1
70°	3086.4	2900.1	2364.7	753.6	253.2	89.6	40.6	38.2	32.6	26.7	23.5
72.5°	2187.1	1986.5	1595.2	592.0	228.1	89.2	34.6	34.6	26.7	22.3	19.1
75°	1235.7	1237.3	1002.8	418.8	189.5	73.6	27.9	27.5	19.5	17.1	14.3
77.5°	720.1	707.4	676.0	179.9	88.0	33.4	19.5	16.7	13.5	12.3	10.4
80°	370.2	304.5	296.6	65.3	31.4	21.1	13.5	9.6	8.8	8.0	7.2
82.5°	109.5	109.9	97.9	26.3	17.5	13.9	6.8	5.2	4.8	4.4	4.4
85°	7.6	4.8	5.6	8.0	10.7	5.6	0.4	1.2	1.2	1.6	2.0
87.5°	0.8	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°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1432.7	1450.2	1417.6	1418.4	1391.3	1400.1	1368.2	1378.6	1359.9	1374.2	1416.4
5°	1078.0	1082.0	1055.7	1047.4	1051.4	1067.7	1074.1	1045.0	1057.3	1033.0	1031.5
7.5°	759.6	764.3	749.2	747.2	775.9	769.1	781.5	751.6	723.3	735.7	713.0
10°	590.0	570.1	539.0	530.3	524.7	528.3	528.3	501.2	497.2	486.5	502.8
12.5°	465.8	441.5	412.0	372.2	362.3	361.5	346.7	322.9	315.3	306.1	319.7
15°	338.4	328.4	303.7	281.5	258.8	254.4	230.5	211.0	185.1	181.5	180.3
17.5°	238.1	223.3	222.9	210.2	197.1	188.3	166.0	143.7	133.8	132.6	132.6
20°	178.3	173.2	164.8	163.2	159.2	149.3	129.4	117.4	112.7	113.1	114.7
22.5°	150.1	146.5	138.9	135.4	133.8	125.0	110.3	102.3	99.9	99.9	100.3
25°	134.2	131.0	122.6	117.0	115.0	108.7	97.1	91.2	89.2	89.2	89.2
27.5°	122.2	118.2	109.5	104.7	101.1	93.9	86.8	80.8	78.8	78.8	79.2
30°	113.9	109.5	101.5	95.1	89.6	83.2	77.2	72.1	69.7	69.3	69.7
32.5°	102.7	98.7	90.8	86.8	80.4	72.9	68.1	63.3	60.9	61.3	60.9
35°	80.0	78.8	73.2	74.4	70.9	64.5	60.1	54.9	52.2	51.8	52.5
37.5°	72.9	68.1	61.7	62.1	60.9	58.5	51.4	45.8	43.8	43.8	44.2
40°	67.3	62.5	55.3	51.8	52.2	52.2	44.6	38.6	36.6	36.2	37.0
42.5°	62.5	57.7	49.8	43.8	42.2	44.2	37.8	31.8	29.9	29.1	29.9
45°	59.3	54.1	45.0	38.2	33.4	35.8	31.1	26.3	23.9	23.9	23.5
47.5°	56.1	51.4	41.4	33.0	27.9	26.7	25.5	21.1	18.7	18.3	18.7
50°	53.3	48.6	37.4	28.7	23.5	20.7	20.7	16.7	15.1	14.3	14.7
52.5°	50.6	45.4	33.8	25.5	20.3	16.7	14.7	13.5	12.3	11.9	12.3
55°	46.6	41.4	30.3	21.9	17.5	13.9	11.5	11.1	10.4	9.6	10.4
57.5°	41.8	37.0	26.7	18.7	13.9	10.7	9.6	9.2	8.4	8.0	8.0
59°	39.0	34.6	24.7	16.3	12.3	9.6	8.8	8.4	7.6	6.8	7.2
60°	37.4	33.8	23.5	15.1	11.1	8.8	8.0	7.6	6.8	6.4	6.8
62.5°	33.0	30.3	20.7	12.3	8.8	6.4	5.6	6.0	5.6	5.2	5.6
65°	29.1	26.7	17.5	9.6	6.8	4.4	4.0	5.2	4.8	4.4	4.8
67.5°	25.9	23.1	14.7	7.2	4.8	2.4	2.8	4.4	4.4	4.0	4.4
70°	22.3	19.9	11.9	5.2	2.4	1.2	2.0	3.2	4.0	3.6	4.0
72.5°	18.3	15.5	9.2	3.6	1.2	0.0	1.2	2.8	4.0	3.6	4.0
75°	14.3	11.5	6.8	2.0	0.0	0.0	0.4	2.4	4.0	3.6	4.0
77.5°	10.4	8.4	4.0	0.4	0.0	0.0	0.4	2.4	4.0	3.6	4.0
80°	6.8	6.0	1.6	0.0	0.0	0.0	0.4	2.4	4.0	4.0	4.4
82.5°	4.4	3.2	0.0	0.0	0.0	0.0	0.8	3.2	4.4	4.8	4.8
85°	2.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	5.2	5.2	5.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.8	4.8	6.0	6.0	6.0
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°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1423.6	1448.7	1484.1	1538.6	1582.8	1652.5	1705.8	1778.7	1852.3	1874.6	1909.2
5°	1047.8	1080.0	1160.4	1233.7	1279.9	1427.2	1520.3	1667.2	1799.0	1862.3	1931.1
7.5°	727.7	765.9	827.2	929.5	1026.7	1146.5	1297.0	1465.0	1658.1	1748.4	1845.6
10°	510.8	558.5	644.9	728.9	851.1	965.0	1113.5	1299.0	1512.0	1618.6	1740.5
12.5°	322.5	365.1	479.3	573.7	726.1	858.3	995.2	1163.2	1410.0	1519.5	1647.3
15°	184.3	220.1	273.5	394.5	563.7	738.5	909.2	1104.3	1357.9	1492.8	1631.0
17.5°	137.3	146.9	170.8	239.3	393.3	597.5	830.0	1086.4	1393.3	1551.8	1709.4
20°	115.4	121.8	133.0	160.0	250.8	460.2	752.8	1089.6	1508.0	1707.0	1856.7
22.5°	103.5	107.5	116.6	134.2	171.2	335.2	662.4	1108.3	1646.9	1897.7	2070.5
25°	90.8	95.9	103.9	119.0	142.5	232.5	573.3	1150.1	1841.6	2139.7	2302.2
27.5°	80.8	85.6	93.6	107.5	125.0	177.5	469.4	1185.9	2047.0	2383.4	2516.3
30°	70.9	75.6	83.6	94.7	110.7	143.7	357.5	1207.0	2246.4	2566.1	2668.4
32.5°	62.5	66.5	74.0	84.0	97.1	121.8	281.8	1185.1	2398.9	2732.1	2800.6
35°	54.1	58.9	65.3	74.4	86.0	103.9	234.5	1109.5	2529.9	2902.9	2927.6
37.5°	45.4	51.0	57.7	66.1	75.2	95.5	188.3	1025.9	2670.0	3115.9	3075.3
40°	38.2	43.4	49.8	58.9	67.3	87.6	144.9	936.7	2821.3	3315.7	3236.5
42.5°	31.1	36.6	44.2	52.5	66.5	76.4	112.3	844.4	2957.0	3489.7	3382.2
45°	24.7	29.5	37.4	48.2	66.1	65.7	86.8	753.2	3059.3	3613.9	3490.9
47.5°	19.5	23.5	31.4	47.0	60.9	55.7	69.7	696.7	3166.8	3725.7	3574.1
50°	15.5	19.5	27.1	49.0	53.3	47.8	58.5	705.8	3270.7	3782.7	3608.3
52.5°	13.1	17.1	23.5	38.6	41.0	41.8	51.4	748.0	3404.9	3843.6	3676.4
55°	11.5	15.1	19.9	27.1	31.8	37.4	47.0	778.7	3584.4	3974.2	3826.5
57.5°	9.2	13.1	17.9	23.1	26.3	32.6	43.4	781.1	3746.8	4141.7	4025.9
59°	8.4	11.9	16.7	21.9	23.5	29.5	41.0	760.8	3752.8	4166.8	4117.5
60°	7.6	11.5	15.9	20.3	22.3	27.9	39.0	737.3	3698.7	4127.0	4155.3
62.5°	6.4	10.0	13.9	16.3	19.1	23.1	33.8	652.1	3436.3	3946.7	4085.2
65°	5.6	8.8	11.9	13.5	15.9	19.9	29.9	521.9	3146.5	3702.3	3884.6
67.5°	5.2	8.0	10.4	11.5	13.9	18.3	26.7	368.6	2771.1	3392.1	3583.2
70°	4.8	7.6	9.2	10.7	12.3	15.5	22.7	215.0	2134.6	2848.3	3050.2
72.5°	4.8	7.2	8.0	9.2	10.7	13.9	21.1	116.2	1459.4	2172.8	2433.5
75°	4.8	6.8	7.2	8.0	9.6	12.7	18.7	60.9	943.5	1509.6	1863.1
77.5°	4.8	6.4	7.2	7.6	9.2	11.1	16.3	38.2	628.6	1057.3	1259.2
80°	5.2	6.4	6.8	7.6	8.8	10.4	13.5	25.5	369.4	636.2	766.3
82.5°	5.6	6.4	7.2	8.0	9.2	10.0	11.9	15.9	170.4	420.8	476.1
85°	6.0	6.8	7.6	8.4	9.6	10.0	11.1	11.5	27.9	189.9	256.8
87.5°	6.4	7.2	8.0	8.8	10.4	10.4	10.4	10.4	9.6	20.3	51.8
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°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1953.0	1998.0	2029.5	2037.4	2014.7	2004.4	1975.7	1931.1	1904.1	1902.9
5°	2058.1	2163.6	2236.9	2249.2	2205.4	2131.4	2043.4	1929.9	1863.5	1843.6
7.5°	2040.2	2224.9	2342.8	2359.9	2286.2	2144.9	1974.5	1791.8	1719.4	1688.7
10°	1966.6	2191.9	2360.3	2387.4	2289.0	2090.0	1873.4	1669.6	1579.6	1556.1
12.5°	1903.7	2131.4	2281.1	2318.5	2244.0	2045.4	1812.9	1591.2	1494.8	1472.9
15°	1876.2	2059.7	2151.3	2170.4	2158.1	2017.5	1806.5	1579.2	1469.0	1445.1
17.5°	1903.7	1998.8	2010.4	2029.9	2057.3	2014.7	1867.8	1644.1	1525.1	1495.6
20°	1975.7	1945.9	1898.1	1906.5	1969.4	2026.3	1976.9	1787.8	1642.9	1611.5
22.5°	2098.3	1932.7	1824.5	1817.3	1896.9	2064.9	2137.0	1982.5	1814.5	1783.5
25°	2248.8	1965.8	1797.4	1781.9	1868.6	2121.4	2310.9	2221.0	2037.4	1990.1
27.5°	2412.8	2034.2	1797.4	1782.3	1866.3	2171.6	2459.8	2431.9	2268.3	2216.6
30°	2502.8	2090.8	1823.3	1806.1	1895.7	2200.7	2539.4	2619.4	2441.9	2377.8
32.5°	2583.2	2169.2	1873.8	1841.6	1957.4	2243.6	2610.7	2778.7	2580.0	2537.0
35°	2657.3	2253.2	1943.5	1906.1	2038.6	2302.6	2689.5	2945.9	2772.3	2707.4
37.5°	2738.9	2350.7	2052.2	2020.3	2174.4	2417.2	2783.1	3165.6	2961.4	2879.8
40°	2827.6	2463.8	2230.9	2217.4	2390.1	2547.0	2901.3	3400.1	3177.2	3084.4
42.5°	2918.0	2594.0	2449.9	2472.2	2634.6	2728.9	3022.7	3580.4	3353.9	3251.6
45°	3000.0	2760.4	2734.5	2844.8	2919.6	2906.5	3112.7	3707.4	3508.0	3410.1
47.5°	3103.5	3002.8	3078.8	3248.8	3250.8	3099.5	3180.8	3811.3	3640.5	3542.6
50°	3219.4	3289.0	3523.5	3696.7	3650.1	3289.4	3260.4	3934.3	3777.5	3699.1
52.5°	3353.5	3609.5	3934.3	4126.6	4017.9	3496.4	3392.9	4067.3	3994.9	3919.6
55°	3509.6	3828.1	4344.0	4497.2	4387.8	3753.6	3594.4	4247.6	4240.5	4189.1
57.5°	3685.9	4058.9	4581.2	4788.6	4691.1	4055.4	3875.8	4417.6	4390.6	4361.9
59°	3825.3	4177.6	4685.9	4900.9	4842.0	4266.7	4064.9	4523.5	4425.2	4382.2
60°	3909.7	4258.0	4724.6	4916.0	4902.5	4392.5	4184.7	4575.3	4424.8	4365.1
62.5°	4160.1	4398.5	4709.8	4848.8	4901.7	4633.8	4536.3	4632.2	4342.8	4255.2
65°	4249.2	4351.9	4465.8	4448.7	4494.1	4621.4	4760.8	4569.7	4167.6	4043.0
67.5°	4075.7	3841.2	3881.4	3767.1	3744.9	4108.7	4669.6	4264.0	3824.9	3672.4
70°	3435.5	2942.7	2922.4	2974.9	2830.8	3326.5	4193.1	3675.2	3259.2	3086.4
72.5°	2704.2	2079.6	1908.5	2101.9	2097.5	2537.8	3483.3	2607.9	2201.8	2187.1
75°	2126.6	1447.9	1270.7	1302.2	1362.7	1837.2	2774.3	1656.1	1355.9	1235.7
77.5°	1427.6	1025.9	957.0	918.4	983.7	1179.5	1755.2	898.1	760.4	720.1
80°	822.9	745.2	846.3	768.3	803.3	743.2	873.0	412.0	342.0	370.2
82.5°	535.4	424.4	452.2	336.0	459.4	463.4	280.3	121.8	103.1	109.5
85°	334.8	199.0	111.9	79.6	158.4	291.4	87.6	7.6	8.8	7.6
87.5°	86.8	33.0	13.9	20.7	25.5	22.7	20.3	1.2	0.4	0.8
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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