

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: P526753

Luminaire Tested: **GALN-SA1D-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526753  
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-SA1D-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 3619 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

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



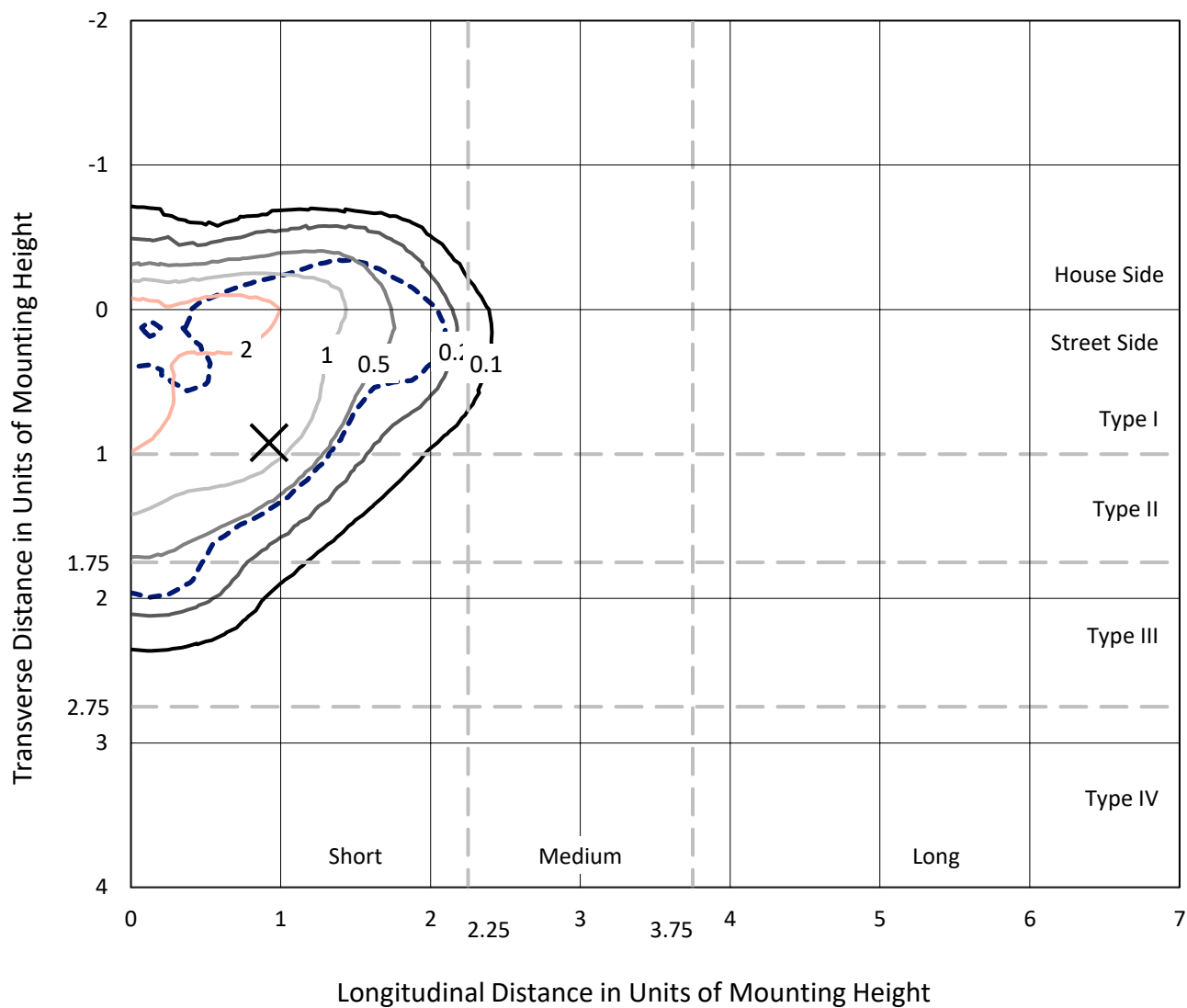
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

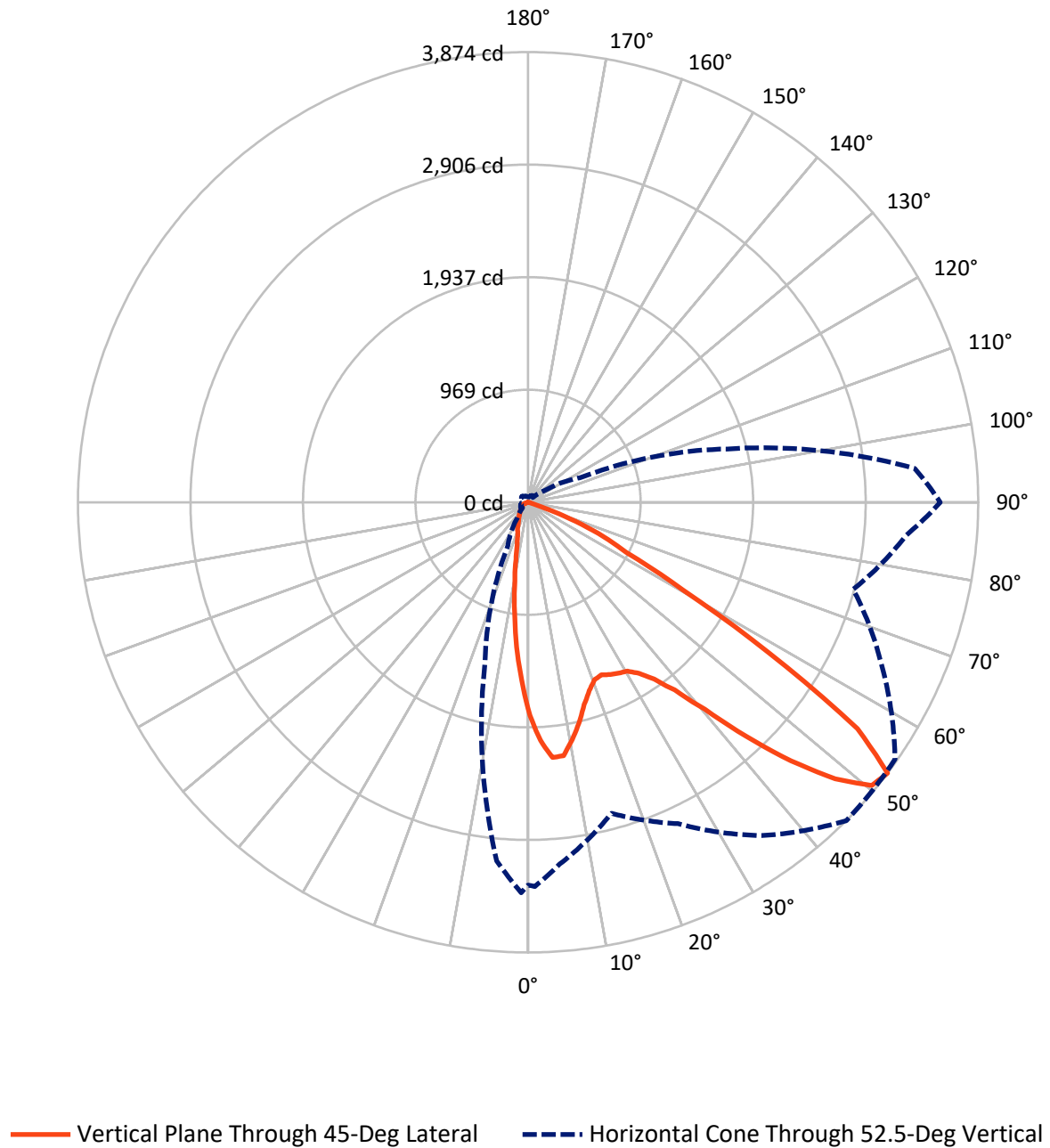
--- 1/2 Max cd



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

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## Luminous Intensity Polar Plot



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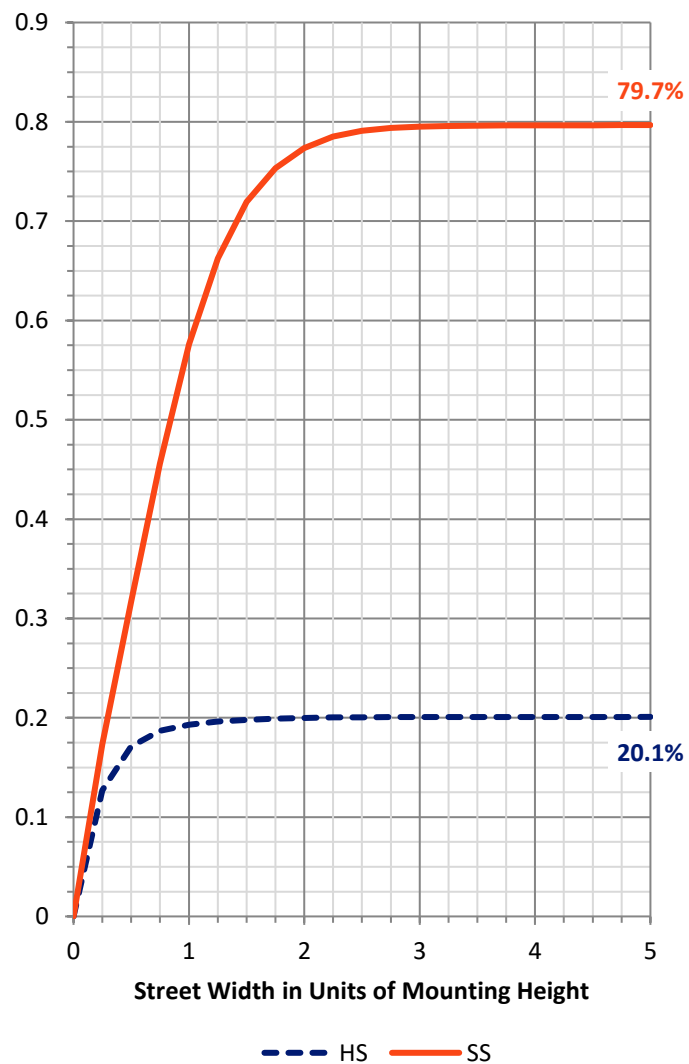
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	734.5	0.0	734.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	2884.5	0.0	2884.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	3619.0	0.0	3619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	3.7
10°-20°	264.0	7.3
20°-30°	401.8	11.1
30°-40°	600.5	16.6
40°-50°	855.2	23.6
50°-60°	919.4	25.4
60°-70°	407.4	11.3
70°-80°	33.0	0.9
80°-90°	3.8	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°	3619.0	100.0
0°-180°	3619.0	100.0

**Coefficient of Utilization**



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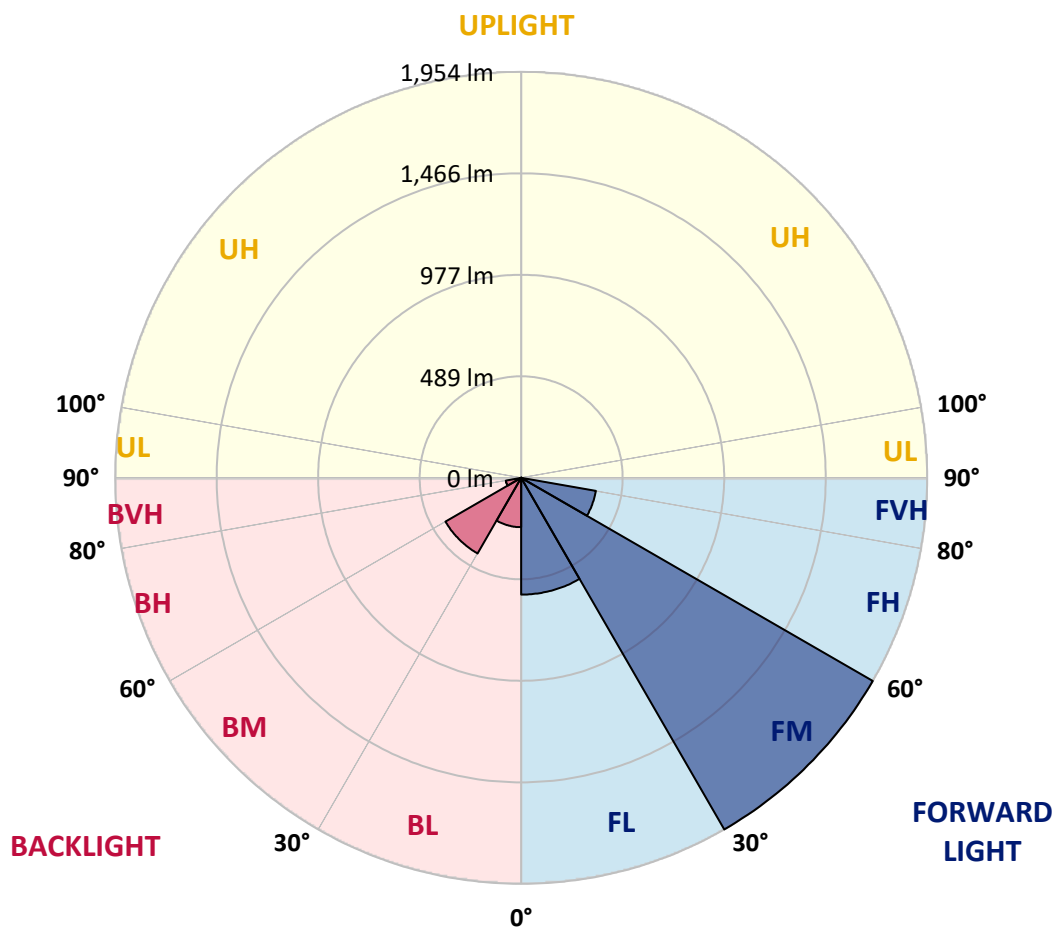
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	562.1	15.5			
FM	(30°-60°)	1954.4	54.0			
FH	(60°-80°)	365.2	10.1			G0/660
FVH	(80°-90°)	2.8	0.1			G0/10
BL	(0°-30°)	237.6	6.6	B1/500		
BM	(30°-60°)	420.8	11.6	B1/1000		
BH	(60°-80°)	75.1	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°	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1941.8	1947.5	1978.8	2017.9	2038.6	2085.6	2052.8	2061.4	2043.6	1980.9	1931.8
5°	1882.7	1882.0	1921.8	2018.6	2110.5	2203.7	2206.6	2156.7	2069.2	1973.1	1835.7
7.5°	1704.7	1732.5	1773.8	1928.2	2098.4	2168.1	2201.6	2143.2	2008.7	1871.3	1722.5
10°	1570.2	1584.5	1654.2	1840.7	1965.3	2058.5	2079.1	2045.7	1942.5	1770.9	1604.4
12.5°	1492.6	1499.7	1581.6	1738.2	1869.9	1938.9	1948.9	1964.5	1890.5	1729.7	1529.6
15°	1493.3	1499.0	1609.4	1740.3	1792.3	1773.8	1806.5	1805.8	1837.8	1721.8	1592.3
17.5°	1600.8	1607.2	1706.9	1771.7	1748.9	1705.5	1703.3	1736.1	1803.7	1819.3	1686.9
20°	1785.9	1800.8	1874.1	1870.6	1742.5	1654.9	1630.7	1655.6	1812.9	1901.9	1877.7
22.5°	2035.0	2055.7	2106.9	2008.7	1771.7	1620.8	1612.9	1661.3	1874.1	2086.3	2094.1
25°	2324.0	2358.9	2383.8	2257.8	1875.6	1679.8	1642.8	1726.1	1956.7	2286.3	2369.6
27.5°	2515.5	2551.8	2546.1	2366.0	1945.3	1695.5	1664.2	1741.8	2028.6	2334.0	2513.3
30°	2665.0	2687.0	2726.9	2424.4	2015.1	1739.6	1686.2	1808.0	2052.1	2416.5	2687.0
32.5°	2839.3	2854.3	2857.1	2527.6	2122.6	1795.1	1754.6	1890.5	2156.0	2495.5	2840.8
35°	3015.2	3037.2	2991.0	2655.0	2188.8	1898.4	1868.5	2033.6	2239.3	2577.4	3010.2
37.5°	3205.9	3217.3	3110.5	2707.7	2283.4	2066.3	2050.0	2188.1	2383.8	2725.5	3198.1
40°	3366.1	3376.7	3237.9	2772.4	2383.1	2301.2	2343.2	2482.7	2580.2	2821.5	3292.0
42.5°	3455.0	3480.0	3280.7	2736.8	2583.1	2567.4	2753.9	2803.0	2808.0	2848.6	3376.0
45°	3479.2	3467.9	3210.2	2766.0	2758.2	3005.2	3174.6	3239.4	3034.4	2898.4	3397.4
47.5°	3367.5	3382.4	3106.3	2740.4	2988.1	3336.9	3556.1	3676.4	3203.1	2855.0	3344.7
50°	3277.1	3257.9	3072.8	2721.9	3050.0	3493.5	3831.6	3858.6	3358.2	2908.4	3287.1
52.5°	3294.9	3307.0	3126.2	2771.0	3051.5	3502.7	3874.3	3855.8	3363.2	2896.3	3266.4
55°	3332.6	3279.2	3103.4	2662.8	2847.2	3244.4	3438.7	3410.2	3104.1	2767.4	3215.9
57.5°	2875.6	2958.2	2853.6	2377.4	2336.8	2444.3	2440.7	2528.3	2315.5	2381.7	2927.6
60°	2334.0	2348.2	2387.4	2033.6	1617.2	1580.2	1528.9	1473.4	1558.1	2036.4	2662.8
62.5°	2052.8	2035.7	2175.2	1849.9	1141.7	955.9	947.4	981.6	1202.2	1942.5	2497.7
65°	1491.9	1513.3	1614.3	1435.7	857.0	729.6	716.8	817.8	973.0	1556.7	1906.2
67.5°	911.1	952.4	961.6	885.5	581.5	462.0	443.4	535.3	702.5	1007.2	1117.5
70°	420.7	470.5	517.5	483.3	336.7	190.0	179.4	224.9	354.5	579.4	592.9
72.5°	127.4	128.1	179.4	187.2	108.9	42.7	37.7	49.8	120.3	191.5	201.4
75°	9.3	10.0	24.2	27.8	20.6	10.7	11.4	13.5	25.6	42.7	32.0
77.5°	0.7	0.7	0.7	3.6	6.4	7.1	9.3	10.7	13.5	15.7	14.2
80°	0.7	0.0	0.7	2.8	5.0	7.1	8.5	10.0	10.7	12.1	10.7
82.5°	0.0	0.0	0.0	2.1	5.0	7.1	7.8	10.7	12.1	14.2	12.1
85°	0.0	0.0	0.0	2.1	5.0	7.8	7.1	3.6	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°	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1940.3	1912.6	1849.2	1817.2	1741.8	1731.1	1657.1	1645.0	1620.0	1606.5	1573.8
5°	1775.2	1741.8	1638.5	1551.7	1450.6	1380.2	1326.1	1277.0	1248.5	1222.1	1234.2
7.5°	1640.7	1543.2	1428.6	1283.4	1166.6	1091.2	1008.6	941.0	901.1	874.1	880.5
10°	1499.7	1436.4	1277.0	1114.0	973.0	919.6	854.9	802.9	746.7	698.3	675.5
12.5°	1455.6	1361.7	1161.6	995.8	889.0	837.1	763.0	703.3	631.4	572.3	551.6
15°	1463.4	1373.0	1130.3	953.1	827.1	737.4	649.2	575.1	496.1	454.8	433.5
17.5°	1590.9	1434.3	1151.0	908.2	741.0	616.4	507.5	413.6	354.5	311.8	302.5
20°	1747.5	1566.7	1195.1	875.5	670.5	490.4	370.8	289.7	240.6	233.5	231.3
22.5°	1976.6	1783.0	1289.8	853.4	584.4	382.2	254.1	210.7	197.2	195.7	196.5
25°	2297.0	2054.2	1393.0	834.9	519.6	294.7	207.8	178.7	174.4	172.3	175.8
27.5°	2435.8	2217.9	1447.8	795.1	460.5	265.5	205.0	177.2	165.1	161.6	163.7
30°	2607.3	2326.8	1533.9	726.7	373.7	218.5	191.5	192.9	187.2	169.4	163.7
32.5°	2835.1	2462.8	1577.3	678.3	333.8	180.8	140.2	128.8	143.8	146.6	151.6
35°	2981.0	2600.9	1599.4	649.9	313.2	154.5	118.9	108.2	104.6	105.3	108.2
37.5°	3252.2	2787.4	1627.2	620.0	297.5	134.5	107.5	97.5	92.5	92.5	95.4
40°	3414.5	2935.4	1664.9	603.6	281.9	122.4	97.5	89.0	84.7	84.7	86.1
42.5°	3455.0	3008.7	1652.1	597.9	264.1	119.6	89.0	82.6	77.6	76.9	76.2
45°	3527.6	3120.5	1654.2	591.5	245.6	108.9	84.0	76.9	69.8	69.0	68.3
47.5°	3607.4	3200.9	1658.5	566.6	227.8	91.1	87.6	71.2	62.6	61.2	61.2
50°	3539.0	3265.0	1695.5	541.7	205.0	74.0	86.1	66.9	55.5	53.4	54.1
52.5°	3547.6	3340.4	1773.8	506.8	176.5	59.1	69.8	63.3	50.5	47.0	47.7
55°	3410.9	3260.7	1784.5	469.8	138.1	45.6	53.4	55.5	42.7	41.3	41.3
57.5°	2936.1	2761.0	1574.5	380.8	91.1	37.7	38.4	48.4	37.0	35.6	36.3
60°	2512.6	2216.5	1267.0	251.3	56.9	29.9	27.8	49.1	32.7	32.0	34.2
62.5°	2290.5	1821.5	960.9	155.9	39.1	22.8	19.2	39.9	28.5	28.5	31.3
65°	1654.9	1223.6	558.8	81.9	27.8	17.8	14.2	22.8	23.5	24.2	25.6
67.5°	1025.0	617.8	235.6	39.9	18.5	12.1	9.3	14.2	15.7	15.7	17.1
70°	506.1	246.3	78.3	22.8	14.2	10.0	6.4	7.8	7.8	7.1	7.8
72.5°	156.6	74.0	19.9	14.2	10.0	6.4	3.6	2.8	1.4	0.0	0.7
75°	17.8	14.2	12.8	10.0	6.4	2.8	0.7	0.0	0.0	0.0	0.0
77.5°	10.7	12.1	12.1	10.0	6.4	2.1	0.0	0.0	0.0	0.0	0.0
80°	8.5	9.3	10.0	9.3	5.7	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	12.1	13.5	12.1	7.8	3.6	1.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.1	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°	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1560.2	1544.6	1566.7	1533.9	1533.2	1533.9	1524.7	1516.1	1529.6	1565.9	1569.5
5°	1190.8	1224.3	1235.0	1269.8	1250.6	1222.1	1227.8	1208.6	1255.6	1276.2	1259.9
7.5°	867.0	864.8	936.7	941.0	950.2	951.0	949.5	911.8	873.4	881.9	907.5
10°	672.6	636.3	671.2	667.7	690.4	684.0	693.3	652.7	666.2	666.2	682.6
12.5°	548.1	509.6	503.2	494.0	503.2	506.8	510.4	502.5	525.3	536.0	547.4
15°	418.5	397.2	391.5	373.7	376.5	386.5	395.0	398.6	391.5	407.9	409.3
17.5°	303.9	303.2	306.8	306.1	303.2	301.1	300.4	291.1	288.3	289.7	295.4
20°	230.6	236.3	248.4	260.5	266.9	259.1	248.4	232.8	226.4	227.8	228.5
22.5°	197.2	205.7	222.1	235.6	242.0	227.8	208.6	195.0	192.2	191.5	190.8
25°	178.7	188.6	200.7	205.0	204.3	195.7	181.5	175.8	174.4	173.0	166.6
27.5°	168.7	172.3	174.4	179.4	181.5	175.8	172.3	163.7	162.3	162.3	158.0
30°	163.0	160.9	163.7	160.2	163.0	158.7	159.4	159.4	155.9	157.3	157.3
32.5°	151.6	152.3	152.3	145.2	147.3	142.4	147.3	151.6	152.3	153.0	158.7
35°	111.0	123.9	130.3	130.3	132.4	128.8	128.1	123.1	116.7	110.3	107.5
37.5°	97.5	102.5	111.0	116.0	119.6	116.7	110.3	102.5	98.9	96.1	93.2
40°	86.8	91.1	96.8	102.5	109.6	106.1	96.1	92.5	88.3	88.3	85.4
42.5°	78.3	80.4	84.0	92.5	100.4	93.2	86.1	83.3	81.1	80.4	79.7
45°	70.5	71.2	74.7	81.9	91.1	84.0	76.9	73.3	74.0	74.7	74.0
47.5°	63.3	64.8	66.9	75.5	81.1	77.6	69.8	67.6	67.6	67.6	68.3
50°	54.8	58.4	62.6	69.8	74.0	71.9	65.5	62.6	61.2	61.2	61.9
52.5°	49.1	52.0	57.7	66.2	71.9	68.3	61.9	57.7	54.8	54.1	55.5
55°	42.7	47.7	56.9	63.3	71.2	67.6	60.5	55.5	50.5	49.8	49.8
57.5°	38.4	46.3	54.8	62.6	69.0	66.2	60.5	54.1	47.7	47.0	47.0
60°	36.3	44.8	53.4	60.5	69.0	64.8	59.8	52.7	45.6	45.6	44.8
62.5°	34.2	42.0	50.5	57.7	66.2	62.6	57.7	50.5	43.4	43.4	42.0
65°	28.5	36.3	42.0	48.4	57.7	54.1	49.1	44.1	38.4	37.0	37.7
67.5°	19.9	24.9	30.6	37.0	42.7	41.3	39.1	35.6	30.6	29.9	29.2
70°	10.0	13.5	18.5	24.9	29.9	28.5	27.0	24.2	21.4	20.6	20.6
72.5°	1.4	4.3	7.8	11.4	15.7	16.4	15.7	14.9	14.2	13.5	14.2
75°	0.0	0.0	0.0	2.8	6.4	7.8	9.3	10.7	10.7	9.3	11.4
77.5°	0.0	0.0	0.0	0.0	0.7	3.6	7.1	9.3	11.4	10.0	13.5
80°	0.0	0.0	0.0	0.0	0.7	4.3	7.1	10.0	11.4	10.0	14.2
82.5°	0.0	0.0	0.0	0.0	0.7	5.0	7.1	9.3	10.7	10.0	12.8
85°	0.0	0.0	0.0	0.0	2.1	4.3	2.8	1.4	0.7	0.7	2.1
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°	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1589.4	1640.0	1694.1	1714.7	1778.8	1827.2	1859.9	1930.4	1941.1	1941.8
5°	1277.0	1302.6	1395.1	1438.5	1533.9	1607.9	1686.9	1800.8	1877.0	1882.7
7.5°	907.5	978.7	1017.9	1131.0	1248.5	1364.5	1482.0	1614.3	1702.6	1704.7
10°	730.3	776.6	846.3	931.0	1030.0	1148.1	1304.7	1458.5	1548.1	1570.2
12.5°	587.9	669.1	748.8	836.4	911.8	1000.8	1169.5	1374.5	1448.5	1492.6
15°	452.7	526.7	620.7	723.2	808.6	927.5	1119.6	1353.8	1478.4	1493.3
17.5°	333.8	400.0	486.9	583.7	711.8	880.5	1128.2	1458.5	1575.9	1600.8
20°	239.9	278.3	346.6	459.1	622.1	825.7	1136.7	1564.5	1743.2	1785.9
22.5°	190.0	205.7	250.6	350.2	521.7	768.0	1197.2	1767.4	1973.1	2035.0
25°	165.1	173.7	195.0	276.2	458.4	762.3	1294.0	2010.8	2279.2	2324.0
27.5°	159.4	160.9	179.4	253.4	424.2	724.6	1331.1	2183.8	2469.9	2515.5
30°	168.0	190.8	192.2	214.2	360.9	649.9	1350.3	2351.1	2631.5	2665.0
32.5°	145.2	138.1	143.1	165.8	317.5	606.4	1386.6	2497.0	2815.9	2839.3
35°	101.1	106.1	117.4	143.8	277.6	560.9	1395.8	2657.8	2991.0	3015.2
37.5°	93.2	96.1	105.3	122.4	244.1	535.3	1383.0	2775.3	3172.5	3205.9
40°	86.8	90.4	95.4	111.0	219.2	506.8	1365.2	2881.3	3283.5	3366.1
42.5°	81.9	84.7	89.0	106.1	197.9	478.3	1340.3	3030.8	3383.2	3455.0
45°	76.2	80.4	85.4	103.2	185.8	459.1	1321.8	3021.6	3440.8	3479.2
47.5°	70.5	77.6	83.3	96.1	182.2	449.9	1329.6	2986.7	3393.8	3367.5
50°	64.8	74.0	84.0	79.7	173.7	431.3	1338.9	3034.4	3282.1	3277.1
52.5°	59.8	70.5	78.3	65.5	154.5	413.6	1428.6	3097.0	3361.1	3294.9
55°	52.7	63.3	62.6	52.7	125.3	400.0	1499.0	3098.4	3307.7	3332.6
57.5°	47.7	56.2	49.1	44.1	92.5	334.5	1384.4	2598.0	2831.5	2875.6
60°	44.1	54.8	37.0	34.9	60.5	241.3	1208.6	2012.2	2250.7	2334.0
62.5°	40.6	52.0	29.2	28.5	42.0	171.5	993.7	1684.1	1939.6	2052.8
65°	35.6	37.0	23.5	22.1	29.9	92.5	605.0	1159.5	1449.9	1491.9
67.5°	29.2	28.5	19.2	17.8	19.9	44.8	266.9	580.8	840.6	911.1
70°	23.5	23.5	16.4	14.2	14.2	20.6	69.8	231.3	380.1	420.7
72.5°	17.1	17.8	12.8	11.4	10.7	10.0	11.4	46.3	99.7	127.4
75°	14.9	15.7	12.8	10.0	7.8	6.4	5.0	4.3	5.7	9.3
77.5°	16.4	16.4	13.5	9.3	7.1	5.0	2.8	1.4	1.4	0.7
80°	20.6	21.4	17.8	12.1	8.5	5.7	3.6	1.4	0.7	0.7
82.5°	22.1	24.2	19.9	14.9	10.7	6.4	3.6	0.7	0.0	0.0
85°	5.7	9.3	15.7	13.5	10.7	6.4	3.6	0.7	0.0	0.0
87.5°	0.0	0.7	2.1	2.1	2.8	2.8	2.1	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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