

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: P298856

Luminaire Tested: **GLNA-AF-01-LED-E1-SLL-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-SLL-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

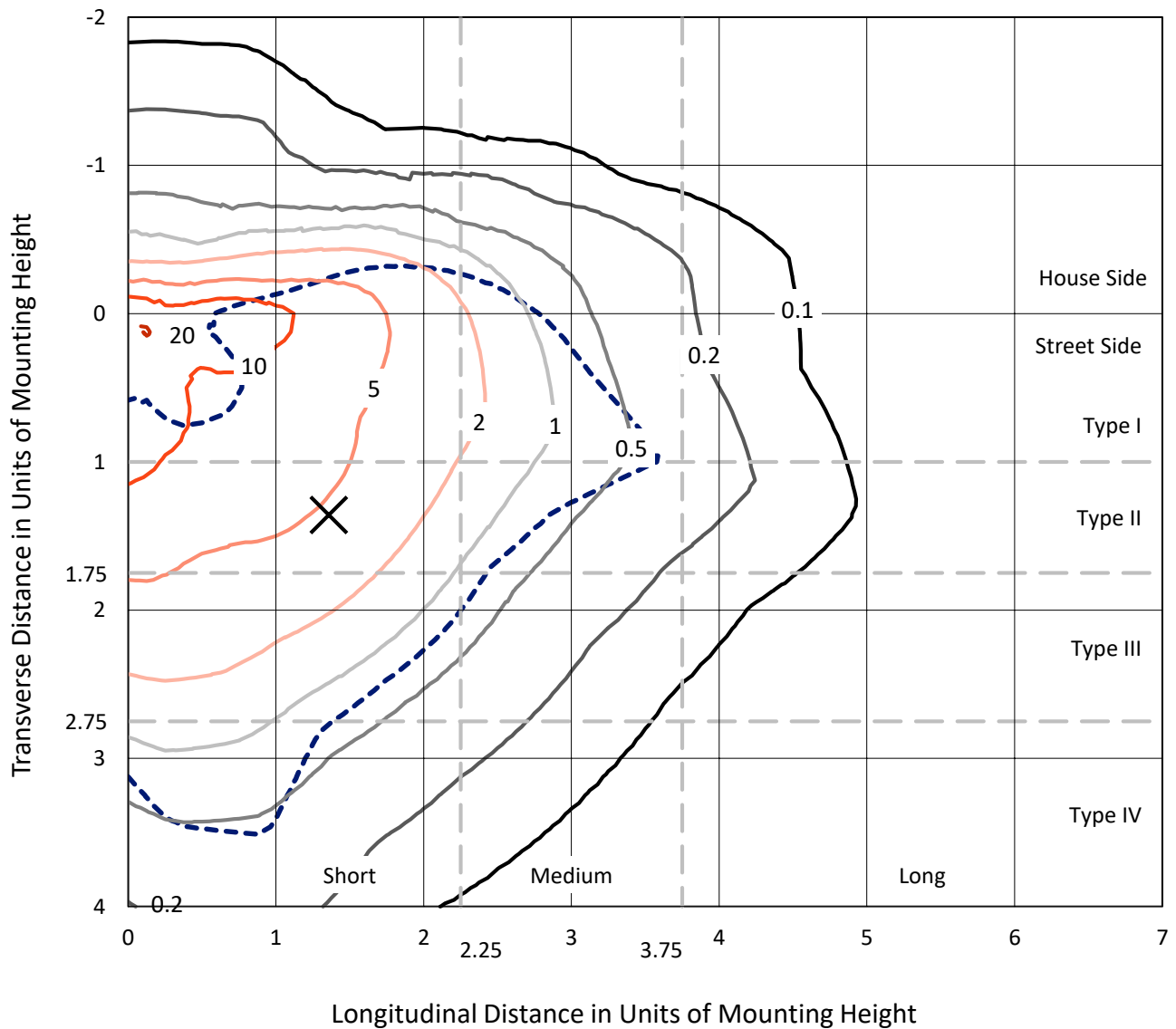
Lumens per Lamp: N/A  
Luminaire Lumens: 5280.5 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

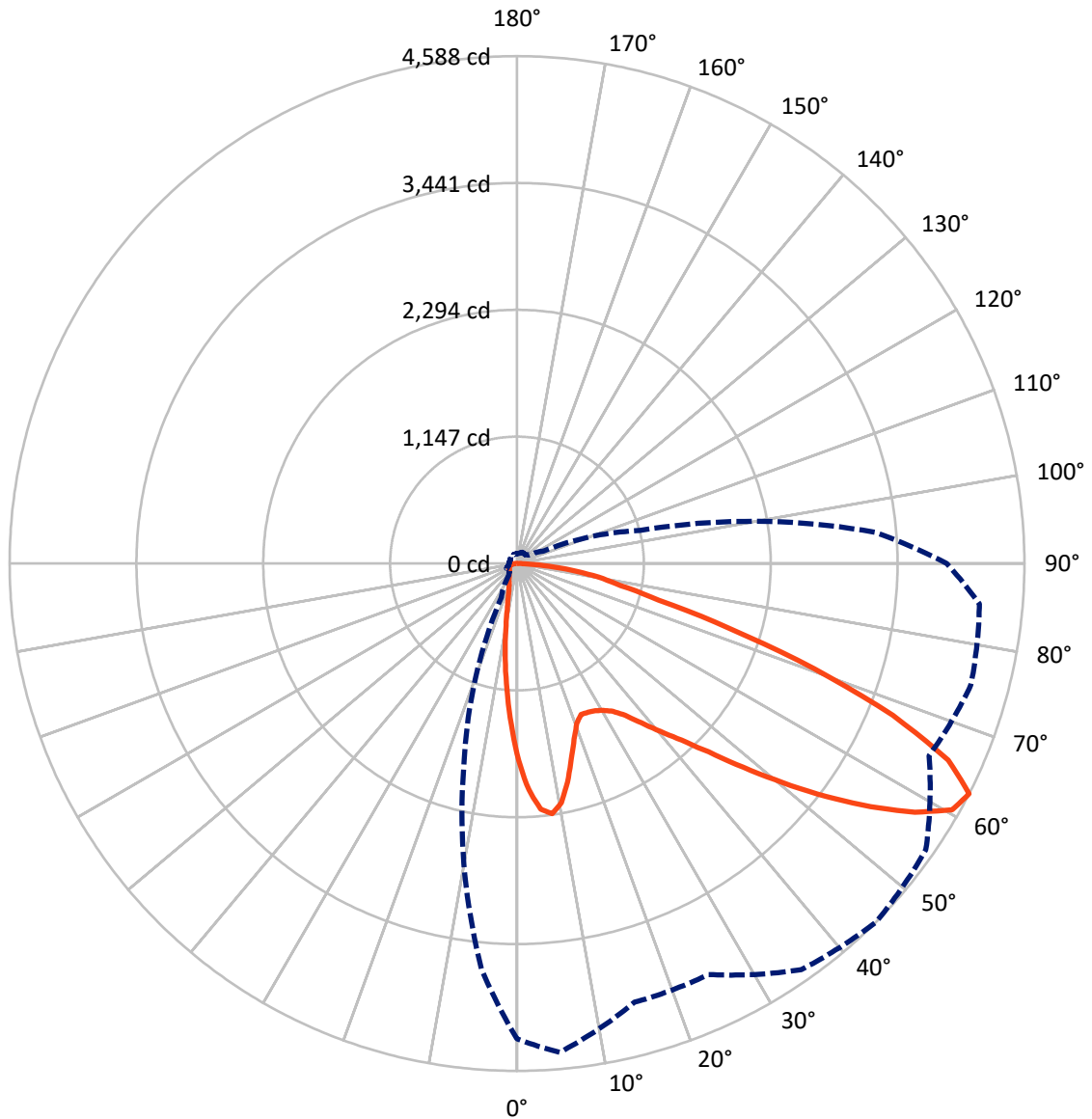
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	873.8	0.0	873.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	4406.6	0.0	4406.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	5280.5	0.0	5280.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	2.5
10°-20°	238.1	4.5
20°-30°	347.2	6.6
30°-40°	534.8	10.1
40°-50°	787.0	14.9
50°-60°	1154.4	21.9
60°-70°	1290.5	24.4
70°-80°	631.8	12.0
80°-90°	166.8	3.2
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°	5280.5	100.0
0°-180°	5280.5	100.0



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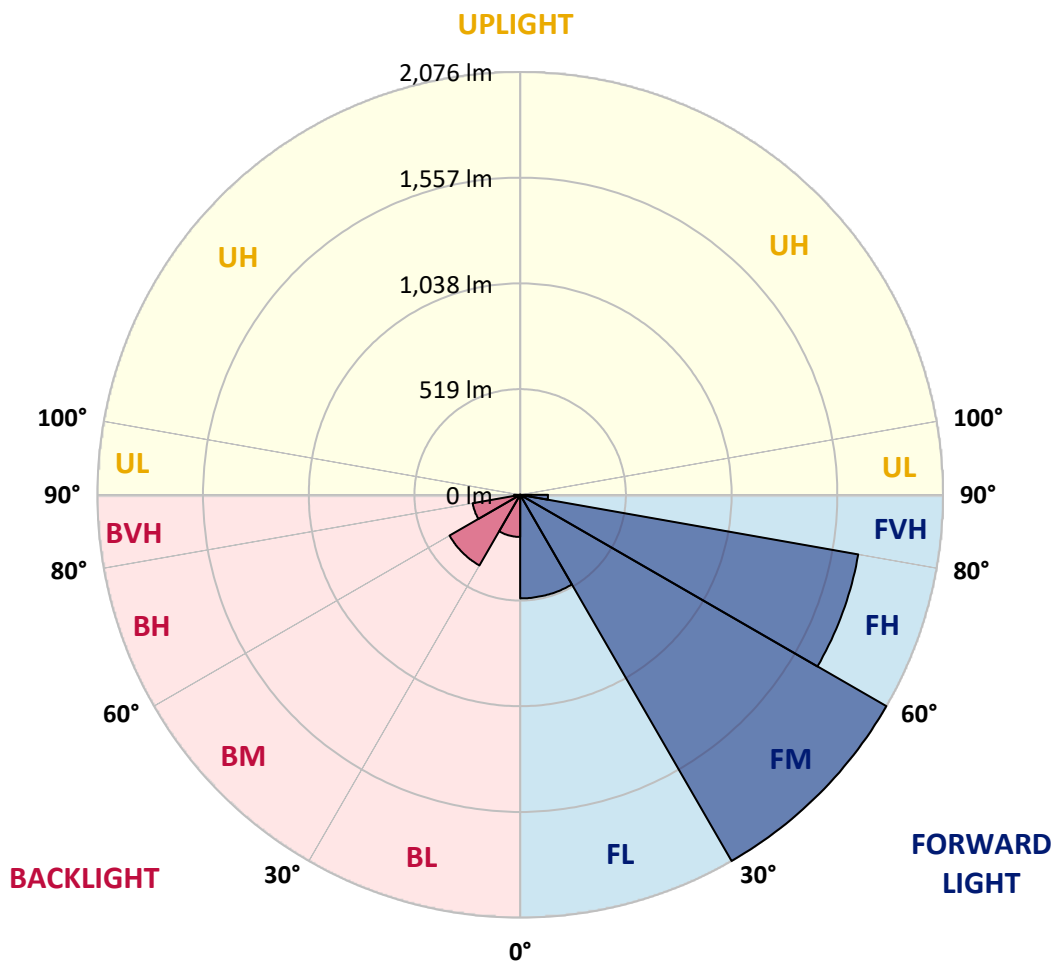
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	508.5	9.6			
FM	(30°-60°)	2075.8	39.3			
FH	(60°-80°)	1685.3	31.9			G1/1800
FVH	(80°-90°)	137.0	2.6			G2/225
BL	(0°-30°)	206.7	3.9	B1/500		
BM	(30°-60°)	400.4	7.6	B1/1000		
BH	(60°-80°)	236.9	4.5	B1/500		G1/500
BVH	(80°-90°)	29.8	0.6			G1/100
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1853.6	1883.3	1941.1	1984.2	2036.9	2049.1	2065.9	2049.3	2020.0	1981.1	1968.4
5°	1743.1	1806.4	1946.5	2070.0	2179.7	2230.7	2245.1	2202.9	2117.9	2006.1	1937.9
7.5°	1565.8	1655.7	1845.5	2027.3	2188.9	2284.5	2282.1	2184.3	2027.9	1845.8	1736.4
10°	1412.7	1515.5	1733.3	1936.5	2108.0	2200.6	2164.8	2039.8	1853.1	1643.5	1524.9
12.5°	1327.2	1427.9	1648.8	1852.8	1996.2	2028.1	2000.8	1878.3	1702.4	1490.6	1386.6
15°	1312.3	1423.0	1615.1	1781.2	1861.5	1833.7	1801.1	1746.3	1622.0	1441.2	1332.9
17.5°	1376.5	1498.4	1653.8	1731.2	1717.6	1669.0	1659.8	1665.9	1636.0	1496.0	1371.3
20°	1499.6	1645.8	1745.7	1707.8	1608.2	1541.3	1543.7	1636.9	1725.4	1635.1	1492.5
22.5°	1672.2	1839.2	1878.3	1720.2	1562.0	1482.7	1502.0	1652.9	1868.0	1838.4	1656.3
25°	1895.8	2047.9	2019.8	1765.4	1566.6	1490.0	1505.4	1708.0	2036.3	2041.5	1859.0
27.5°	2112.3	2253.5	2138.4	1825.5	1585.8	1507.1	1527.5	1794.7	2197.1	2262.1	2090.6
30°	2281.3	2379.4	2185.4	1880.4	1623.5	1540.5	1565.8	1877.2	2270.3	2411.0	2268.8
32.5°	2421.2	2491.7	2260.3	1948.3	1692.9	1593.0	1637.5	1977.4	2375.7	2552.7	2443.2
35°	2599.9	2620.0	2353.5	2024.1	1800.0	1684.5	1739.6	2075.5	2476.1	2695.8	2615.1
37.5°	2809.6	2783.8	2441.4	2127.7	1938.5	1827.5	1873.1	2183.2	2558.8	2858.0	2790.7
40°	3016.8	2954.6	2551.9	2288.5	2140.6	1996.2	2050.2	2298.1	2636.0	3020.6	2962.3
42.5°	3193.0	3101.0	2660.6	2465.3	2328.6	2182.3	2246.8	2413.9	2709.7	3159.3	3111.2
45°	3323.4	3209.0	2764.3	2635.1	2587.8	2429.6	2460.1	2546.5	2789.5	3275.2	3233.7
47.5°	3439.7	3317.5	2881.5	2806.4	2814.5	2751.2	2702.1	2701.0	2883.7	3369.8	3349.5
50°	3595.6	3468.2	3007.5	2982.8	3154.7	3112.6	3004.3	2881.2	3002.6	3477.2	3474.9
52.5°	3810.4	3706.9	3161.4	3173.0	3472.3	3499.9	3365.7	3097.9	3188.9	3674.3	3660.4
55°	4064.5	4004.0	3371.0	3391.6	3861.8	3881.6	3748.3	3368.6	3463.0	3959.7	3921.1
57.5°	4262.7	4249.9	3600.9	3654.0	4152.7	4241.6	4119.1	3682.2	3771.8	4200.0	4103.0
60°	4341.6	4403.4	3845.6	3918.7	4421.8	4520.1	4412.8	3957.5	4045.6	4299.6	4090.6
62.5°	4299.0	4437.1	4106.2	4100.1	4481.8	4587.8	4512.3	4110.9	4248.5	4196.8	3883.7
65°	4101.9	4316.1	4257.5	4053.4	4276.3	4285.0	4260.6	4042.3	4296.4	3872.0	3483.6
67.5°	3672.5	3980.8	4058.3	3652.9	3721.9	3665.3	3624.3	3667.3	4046.7	3385.2	2927.7
70°	2991.3	3455.2	3492.2	2921.7	2890.3	2852.2	2770.7	3006.6	3554.1	2774.5	2323.1
72.5°	2199.5	2687.1	2801.1	2142.8	1997.7	2005.4	1941.1	2265.8	2889.7	2060.9	1734.4
75°	1504.8	1945.7	2191.6	1495.2	1321.1	1324.2	1316.0	1605.5	2301.6	1433.6	1297.9
77.5°	1099.3	1390.1	1652.9	1005.2	975.9	957.9	953.5	1123.3	1764.6	1041.0	1007.8
80°	882.1	1027.0	1110.2	696.7	749.1	747.7	723.6	772.4	1152.4	761.4	753.8
82.5°	611.9	789.3	899.5	546.0	505.6	497.2	503.1	575.3	814.5	520.4	494.9
85°	322.8	524.2	890.9	483.9	300.1	239.4	297.9	471.1	705.7	275.8	241.4
87.5°	41.3	151.5	589.8	193.1	118.4	63.8	141.4	265.3	453.2	56.3	49.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1935.6	1897.0	1846.5	1799.6	1751.2	1703.0	1640.0	1600.5	1573.3	1568.0	1556.5
5°	1888.6	1760.2	1663.3	1579.4	1503.4	1395.9	1336.4	1287.0	1260.6	1258.1	1251.7
7.5°	1671.7	1494.6	1363.7	1245.0	1137.3	1050.5	954.7	910.1	891.7	896.0	900.4
10°	1446.1	1248.2	1097.8	976.4	881.5	808.4	731.5	679.6	643.5	636.3	634.8
12.5°	1281.3	1064.2	918.2	832.4	759.1	690.2	608.7	547.4	500.7	484.7	474.1
15°	1211.5	974.2	821.2	728.9	647.8	560.5	484.7	420.6	377.7	363.7	355.9
17.5°	1226.4	949.2	754.4	636.3	532.7	441.5	346.0	291.1	265.3	258.7	258.7
20°	1304.3	944.6	699.2	551.0	421.7	316.1	237.7	206.4	198.0	197.1	199.4
22.5°	1413.4	960.9	658.1	477.0	327.7	230.8	185.2	173.6	169.8	170.7	173.3
25°	1575.9	1015.7	628.2	411.0	257.2	188.9	165.1	158.2	156.4	158.8	162.0
27.5°	1768.6	1070.6	609.6	361.4	217.1	172.7	157.0	149.8	151.0	153.9	156.7
30°	1937.9	1115.6	580.3	326.0	204.7	173.6	157.0	147.2	146.1	146.6	147.5
32.5°	2089.8	1146.0	546.0	292.3	176.5	154.2	146.6	145.2	138.7	136.4	136.7
35°	2220.7	1146.0	525.4	272.6	158.2	136.7	124.6	117.3	114.0	114.3	117.6
37.5°	2346.9	1123.1	515.3	261.5	148.3	130.0	119.3	112.9	108.6	107.7	108.3
40°	2458.3	1089.7	503.7	256.9	140.8	126.0	115.9	110.5	105.9	104.5	104.8
42.5°	2547.7	1062.6	490.9	250.8	136.1	123.1	113.5	108.8	103.7	102.1	101.9
45°	2644.4	1053.7	474.1	238.6	138.4	123.3	112.9	108.0	102.7	101.0	100.5
47.5°	2771.8	1081.9	456.6	224.1	143.4	124.9	113.7	108.0	102.4	101.0	100.5
50°	2932.3	1148.0	434.5	202.9	138.4	128.9	113.5	107.0	102.4	101.0	99.9
52.5°	3138.5	1237.4	405.6	178.6	135.5	138.7	112.9	105.4	101.0	99.0	97.0
55°	3388.9	1310.6	370.9	158.5	128.9	136.1	112.0	103.4	98.8	95.8	94.0
57.5°	3572.4	1337.0	326.6	145.5	119.6	131.7	110.8	100.7	95.8	93.5	91.2
60°	3536.1	1285.9	289.1	137.3	114.0	119.0	110.0	98.4	93.2	91.5	89.3
62.5°	3245.6	1152.4	265.0	133.5	110.5	108.6	110.8	96.1	90.9	89.0	88.5
65°	2809.9	955.2	255.5	132.7	107.7	102.4	103.1	93.5	88.2	86.8	86.2
67.5°	2317.8	771.0	247.1	135.5	103.9	98.1	95.3	90.0	85.6	84.1	83.0
70°	1827.8	641.2	243.2	133.8	99.3	93.8	90.7	86.2	82.5	80.9	80.1
72.5°	1471.9	541.6	241.1	132.0	93.2	87.9	85.0	81.2	77.2	76.6	75.8
75°	1245.6	425.8	221.0	126.6	86.2	80.9	79.0	75.5	71.4	71.4	70.9
77.5°	960.9	307.9	183.8	112.0	79.0	73.1	71.4	68.8	64.2	65.0	64.7
80°	709.8	200.9	143.7	92.9	70.0	64.5	63.5	61.0	56.0	57.2	57.2
82.5°	486.2	131.7	103.4	76.0	59.7	54.6	54.6	51.9	46.5	47.0	48.8
85°	244.2	90.7	77.2	58.9	46.5	43.8	43.8	41.8	36.3	36.6	38.9
87.5°	74.3	54.6	51.1	42.1	33.4	32.8	31.3	29.9	26.4	26.1	27.6
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1538.7	1522.1	1502.2	1458.0	1443.3	1442.3	1455.8	1441.7	1468.5	1457.2	1469.6
5°	1240.8	1224.7	1202.3	1146.0	1111.7	1088.5	1077.5	1045.0	1068.5	1051.3	1065.7
7.5°	912.6	916.4	901.6	868.5	793.9	756.5	734.4	714.7	731.8	730.0	757.3
10°	641.5	651.6	641.2	607.9	547.4	526.8	530.9	538.7	561.1	572.6	614.8
12.5°	461.8	461.3	454.6	424.7	384.9	387.2	403.8	417.4	438.0	450.2	493.1
15°	344.8	339.6	336.7	312.3	289.7	294.7	302.8	304.2	317.3	324.5	359.4
17.5°	260.6	263.3	266.4	249.1	231.9	228.7	222.4	214.5	218.3	219.7	237.1
20°	206.9	217.4	225.3	213.1	195.7	186.3	178.2	173.0	173.0	172.7	177.6
22.5°	180.8	188.4	196.8	188.4	172.7	164.5	159.9	155.9	155.3	155.3	159.9
25°	166.7	172.2	180.3	174.5	162.8	156.7	152.4	147.2	145.2	144.6	147.8
27.5°	159.6	162.0	166.0	160.8	151.0	148.0	146.9	142.3	139.6	138.1	141.4
30°	147.8	147.2	147.5	142.3	134.4	134.1	136.1	137.0	136.1	135.8	140.8
32.5°	136.7	135.5	135.2	130.6	123.3	121.7	123.3	125.1	127.1	130.0	135.8
35°	122.8	125.7	127.4	123.3	114.6	109.4	107.4	104.2	102.4	102.4	109.1
37.5°	111.8	118.4	121.1	117.3	107.7	100.5	97.0	96.4	96.7	97.8	104.2
40°	108.0	112.9	115.2	111.5	101.9	95.3	93.2	92.6	93.2	95.0	101.3
42.5°	105.6	109.1	108.8	104.2	96.4	91.8	90.7	90.0	90.7	92.3	99.3
45°	103.7	105.9	103.7	98.1	90.9	88.5	88.8	88.5	89.0	90.9	97.5
47.5°	101.9	102.7	99.9	94.3	86.8	86.2	87.4	88.2	88.8	90.4	97.2
50°	99.3	99.3	96.7	90.9	83.3	83.6	85.0	87.1	87.4	89.0	94.7
52.5°	96.1	95.8	94.0	88.5	80.4	81.2	81.2	83.6	84.1	86.2	92.1
55°	93.5	92.9	92.1	86.8	77.8	79.2	78.4	79.2	80.7	82.7	89.0
57.5°	91.2	90.0	90.0	85.3	75.8	76.3	74.3	75.5	77.2	79.0	85.6
60°	88.8	87.6	88.2	83.3	72.6	72.0	71.1	73.4	74.1	76.0	82.7
62.5°	86.2	85.3	85.6	80.9	70.3	68.8	68.8	70.9	71.1	74.1	80.4
65°	84.1	83.0	82.7	78.7	67.7	66.0	66.8	67.7	68.2	71.1	77.2
67.5°	82.2	79.8	79.8	76.6	64.7	62.9	64.7	64.5	65.4	67.9	72.8
70°	79.5	76.3	76.6	75.2	61.8	59.7	61.3	61.0	61.5	63.2	68.2
72.5°	75.5	72.8	73.4	72.8	58.9	56.0	56.5	56.5	56.5	58.0	63.2
75°	70.3	68.2	70.0	71.4	55.4	51.4	51.9	51.9	51.1	51.9	58.3
77.5°	63.8	62.7	68.5	66.5	51.4	46.5	46.5	45.9	44.2	45.3	52.2
80°	56.9	56.0	63.2	55.7	46.7	40.4	39.8	38.3	36.6	37.4	44.5
82.5°	49.7	48.8	53.1	42.7	40.4	33.4	31.9	29.3	27.6	28.5	34.8
85°	40.7	40.7	41.0	32.2	30.7	25.5	23.8	20.4	18.3	18.8	25.0
87.5°	29.0	29.9	27.6	22.1	18.3	14.2	13.1	11.0	9.2	10.7	13.1
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1533.5	1565.5	1601.7	1648.1	1688.0	1753.2	1815.9	1853.6
5°	1146.6	1199.8	1265.8	1351.0	1430.2	1549.2	1667.3	1743.1
7.5°	820.6	877.5	948.9	1055.1	1167.2	1319.0	1475.2	1565.8
10°	679.0	737.4	797.4	869.1	960.9	1126.0	1310.6	1412.7
12.5°	561.7	624.1	688.8	764.3	849.3	996.8	1209.6	1327.2
15°	429.9	499.5	575.8	671.4	777.9	948.3	1184.6	1312.3
17.5°	294.7	372.5	466.2	584.0	714.4	932.6	1229.3	1376.5
20°	202.9	259.5	359.7	497.8	654.6	930.6	1315.2	1499.6
22.5°	169.8	195.1	268.2	418.6	609.6	955.6	1448.5	1672.2
25°	157.0	172.2	214.2	349.8	576.8	1013.1	1632.0	1895.8
27.5°	149.5	163.1	194.5	304.8	551.0	1079.8	1810.5	2112.3
30°	152.4	166.3	188.9	281.8	515.8	1135.5	1969.0	2281.3
32.5°	137.3	143.4	162.0	261.5	490.6	1182.2	2107.7	2421.2
35°	117.0	127.7	144.6	252.0	491.1	1213.6	2258.9	2599.9
37.5°	111.5	122.2	134.4	248.5	497.8	1247.1	2432.5	2809.6
40°	108.0	117.9	128.3	246.5	504.2	1277.5	2602.7	3016.8
42.5°	105.6	114.6	127.7	239.4	507.4	1304.8	2742.5	3193.0
45°	105.4	114.6	130.0	232.5	512.3	1334.1	2859.8	3323.4
47.5°	105.6	118.4	125.7	224.1	512.3	1383.1	2997.4	3439.7
50°	104.5	124.9	121.1	212.2	500.5	1476.0	3186.1	3595.6
52.5°	103.9	124.0	112.0	193.9	479.8	1623.5	3427.9	3810.4
55°	102.4	119.6	105.6	166.7	455.8	1784.4	3686.8	4064.5
57.5°	101.0	105.9	102.1	142.9	418.6	1897.5	3865.0	4262.7
60°	113.2	92.6	99.3	131.2	368.9	1928.5	3858.1	4341.6
62.5°	104.8	86.8	95.6	128.6	334.1	1841.5	3679.8	4299.0
65°	82.2	83.0	91.8	136.1	324.8	1610.8	3364.0	4101.9
67.5°	75.2	79.2	87.9	145.8	325.8	1289.7	2892.1	3672.5
70°	70.9	75.2	83.6	150.7	328.0	961.4	2286.4	2991.3
72.5°	66.0	69.7	78.7	151.5	312.8	698.4	1762.3	2199.5
75°	60.0	63.5	71.7	132.0	259.2	484.4	1348.1	1504.8
77.5°	53.4	56.0	62.9	101.9	192.5	310.0	1011.9	1099.3
80°	45.6	47.0	52.9	74.6	131.7	193.9	800.6	882.1
82.5°	36.6	37.1	41.0	56.0	85.6	124.6	536.2	611.9
85°	25.8	25.8	28.2	40.7	58.3	79.0	291.1	322.8
87.5°	12.2	12.4	12.4	22.3	30.4	40.1	67.1	41.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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