

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: P299396

Luminaire Tested: **GLNA-AF-01-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
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-SLR-7030-800  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

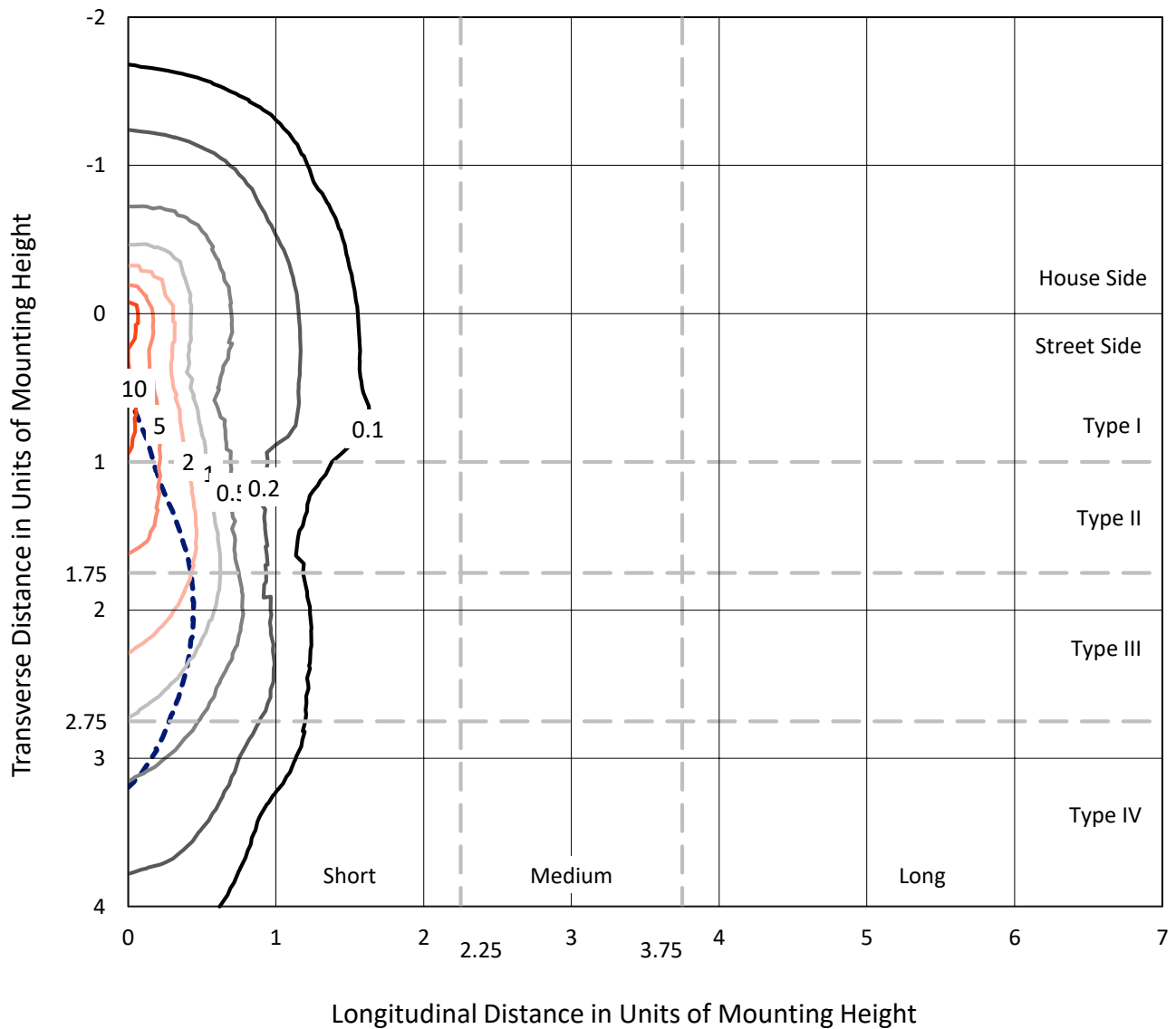
Lumens per Lamp: N/A  
Luminaire Lumens: 4266 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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

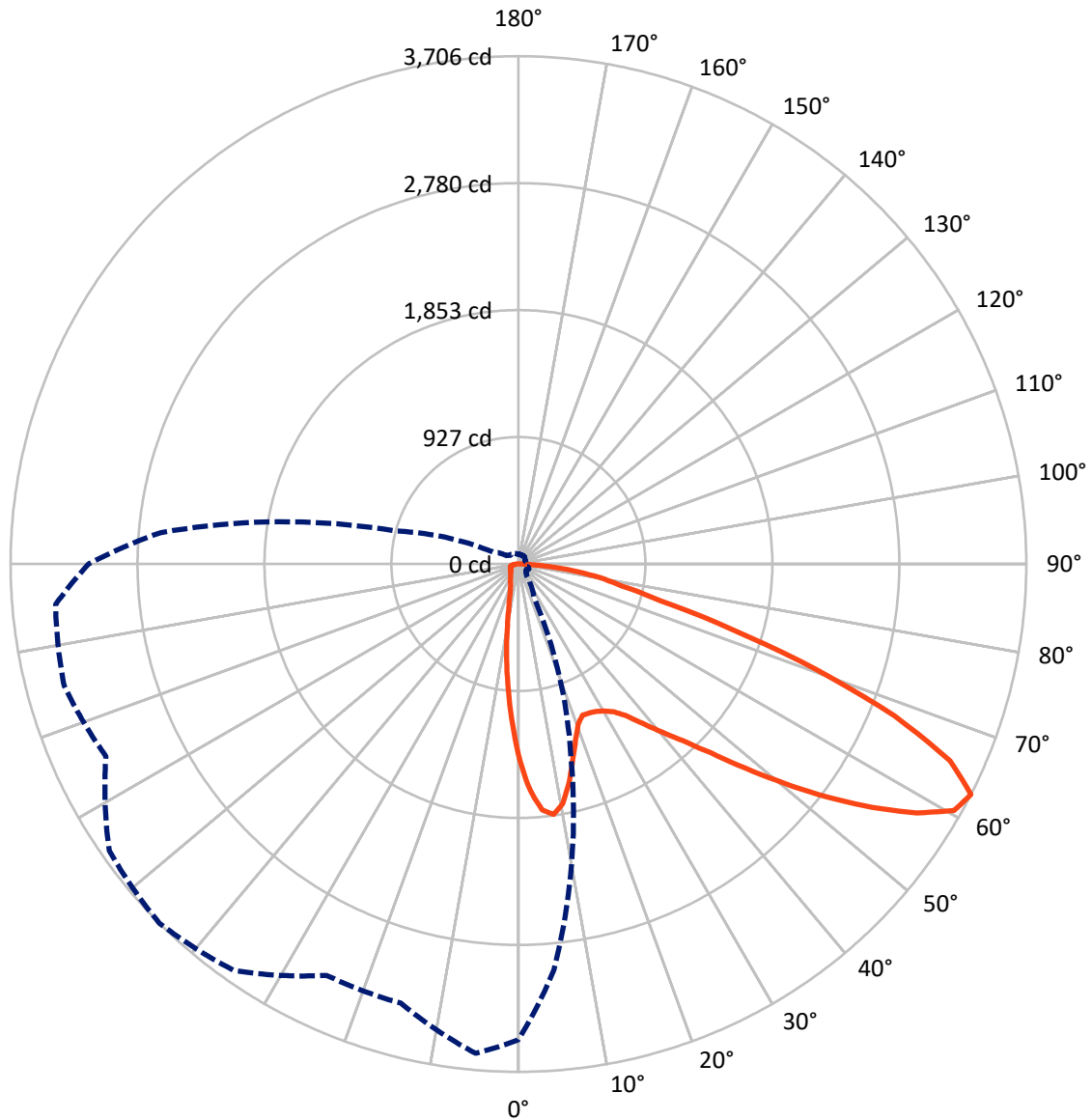
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	706.0	0.0	706.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3560.0	0.0	3560.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4266.0	0.0	4266.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	2.5
10°-20°	192.4	4.5
20°-30°	280.5	6.6
30°-40°	432.0	10.1
40°-50°	635.8	14.9
50°-60°	932.6	21.9
60°-70°	1042.5	24.4
70°-80°	510.4	12.0
80°-90°	134.8	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°	4266.0	100.0
0°-180°	4266.0	100.0



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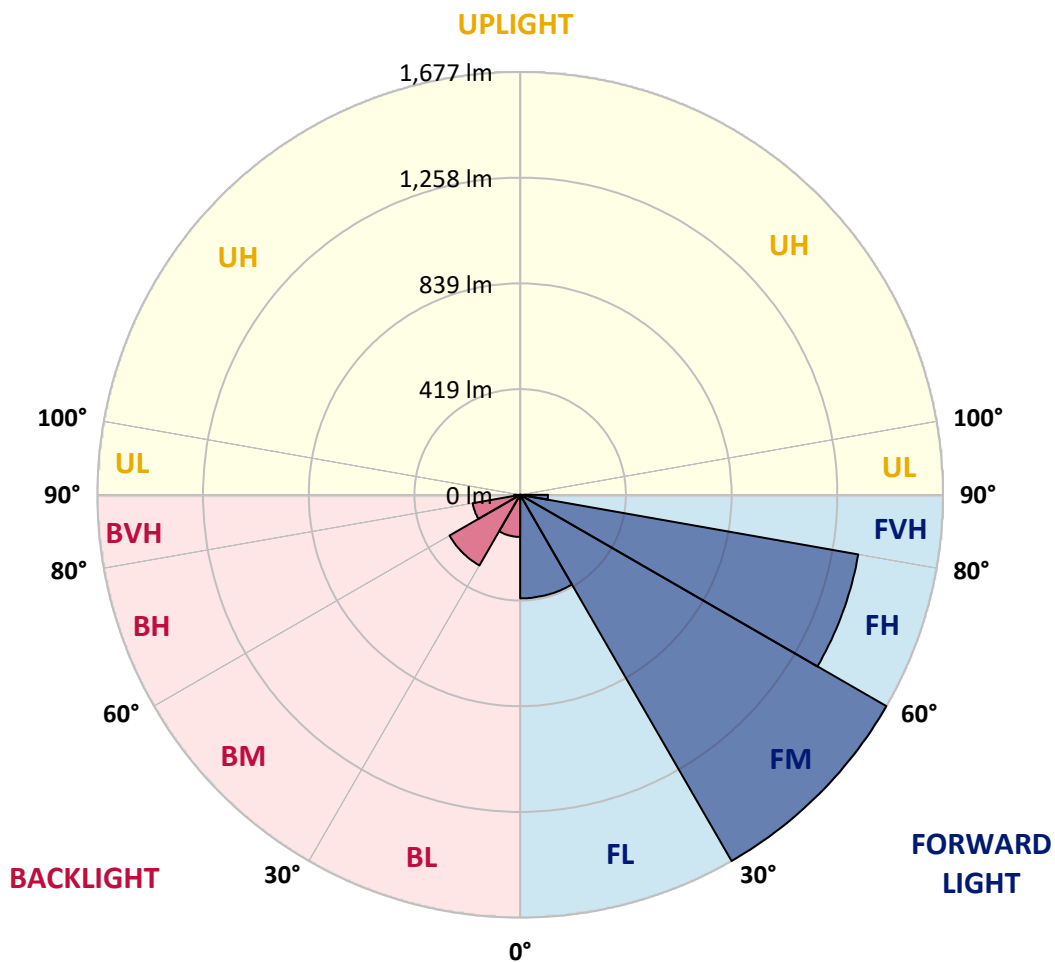
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.8	9.6			
FM (30°-60°)	1677.0	39.3			
FH (60°-80°)	1361.6	31.9			G1/1800
FVH (80°-90°)	110.7	2.6			G2/225
BL (0°-30°)	167.0	3.9	B1/500		
BM (30°-60°)	323.5	7.6	B1/1000		
BH (60°-80°)	191.4	4.5	B1/500		G1/500
BVH (80°-90°)	24.1	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°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1497.5	1467.1	1416.4	1363.6	1331.6	1294.0	1264.7	1238.9	1187.3	1177.2	1186.4
5°	1408.2	1347.0	1251.5	1155.4	1091.4	1022.7	969.2	926.3	860.9	849.4	863.2
7.5°	1265.0	1191.8	1065.6	942.9	852.4	766.6	708.9	662.9	611.8	589.8	591.2
10°	1141.4	1058.8	909.6	776.2	702.1	644.2	595.6	548.5	496.7	462.7	453.3
12.5°	1072.1	977.2	805.3	686.2	617.4	556.5	504.2	453.8	398.4	363.7	353.9
15°	1060.2	957.0	766.2	628.5	542.4	465.3	403.6	347.3	290.3	262.2	256.3
17.5°	1112.0	993.1	753.5	577.1	471.8	376.6	300.9	238.0	191.6	177.6	176.3
20°	1211.4	1062.6	751.8	528.8	402.2	290.6	209.6	163.9	143.5	139.5	139.8
22.5°	1351.0	1170.2	772.0	492.5	338.1	216.7	157.6	137.2	129.2	125.4	125.4
25°	1531.5	1318.4	818.4	466.0	282.6	173.1	139.1	126.9	119.3	116.8	117.3
27.5°	1706.5	1462.6	872.4	445.1	246.2	157.1	131.8	120.8	114.2	111.6	112.8
30°	1843.0	1590.7	917.4	416.7	227.7	152.6	134.4	123.1	113.7	109.8	110.0
32.5°	1956.0	1702.8	955.1	396.3	211.3	130.8	115.9	110.9	109.8	105.1	102.7
35°	2100.5	1825.0	980.5	396.8	203.5	116.8	103.2	94.5	88.2	82.8	82.8
37.5°	2269.8	1965.2	1007.5	402.2	200.8	108.5	98.8	90.0	84.2	79.0	78.1
40°	2437.2	2102.6	1032.1	407.4	199.1	103.7	95.2	87.3	81.9	76.7	75.3
42.5°	2579.6	2215.6	1054.1	409.9	193.5	103.2	92.6	85.3	80.2	74.5	73.2
45°	2684.9	2310.3	1077.8	413.9	187.8	105.1	92.6	85.1	78.8	73.4	72.0
47.5°	2778.9	2421.5	1117.4	413.9	181.0	101.5	95.7	85.3	78.6	72.9	71.8
50°	2904.8	2573.9	1192.5	404.3	171.4	97.8	100.8	84.4	76.5	72.0	70.6
52.5°	3078.3	2769.3	1311.6	387.6	156.7	90.5	100.1	84.0	74.3	69.6	68.0
55°	3283.6	2978.5	1441.5	368.2	134.6	85.3	96.6	82.8	72.0	66.8	65.2
57.5°	3443.7	3122.4	1533.0	338.1	115.4	82.6	85.6	81.6	69.1	63.8	62.4
60°	3507.5	3116.8	1558.1	298.0	106.0	80.2	74.8	91.4	66.8	61.4	59.8
62.5°	3473.1	2972.8	1487.7	269.9	103.9	77.2	70.1	84.6	65.0	59.8	57.4
65°	3313.8	2717.7	1301.3	262.4	110.0	74.1	67.1	66.4	62.4	57.4	55.1
67.5°	2967.0	2336.4	1041.9	263.1	117.7	71.1	64.0	60.8	58.9	54.9	52.7
70°	2416.6	1847.2	776.7	265.0	121.7	67.5	60.8	57.2	55.1	51.1	49.7
72.5°	1776.9	1423.7	564.3	252.8	122.4	63.5	56.3	53.2	51.1	46.9	45.7
75°	1215.7	1089.0	391.4	209.4	106.7	57.9	51.3	48.6	47.1	42.0	41.2
77.5°	888.1	817.5	250.5	155.5	82.3	50.9	45.3	43.2	42.2	36.6	35.6
80°	712.7	646.7	156.7	106.5	60.3	42.7	38.0	36.8	35.9	30.2	29.5
82.5°	494.3	433.1	100.6	69.1	45.3	33.1	30.0	29.5	28.1	23.0	22.3
85°	260.8	235.2	63.8	47.1	32.8	22.7	20.9	20.9	20.2	15.3	14.8
87.5°	33.3	54.2	32.4	24.6	18.0	10.1	10.1	9.9	10.6	8.7	7.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1164.8	1176.1	1165.3	1166.0	1177.9	1213.6	1229.7	1243.1	1257.4	1266.8	1271.0
5°	844.3	870.5	879.4	898.1	925.8	971.3	989.4	1002.5	1011.2	1016.3	1018.5
7.5°	577.4	593.3	611.1	641.4	701.6	728.4	740.3	737.3	727.5	723.9	720.4
10°	435.3	428.9	425.6	442.3	491.1	518.0	526.5	518.3	512.9	514.1	519.9
12.5°	337.2	326.2	312.9	311.0	343.1	367.2	372.6	373.1	382.9	391.6	404.5
15°	245.8	244.6	238.0	234.1	252.3	272.0	274.4	278.6	287.5	293.8	305.1
17.5°	173.3	179.6	184.8	187.4	201.2	215.3	212.7	210.6	208.9	208.9	214.3
20°	139.8	144.0	150.6	158.0	172.2	182.0	175.6	167.2	161.1	159.2	159.9
22.5°	125.9	129.2	133.0	139.5	152.2	159.0	152.2	146.1	140.0	137.9	137.2
25°	118.9	123.1	126.7	131.6	140.9	145.6	139.1	134.6	130.8	128.3	126.4
27.5°	114.9	118.6	119.6	122.0	129.9	134.1	130.8	129.0	126.7	124.3	122.0
30°	110.7	110.0	108.3	108.5	114.9	119.1	118.9	119.3	119.1	118.4	118.0
32.5°	101.1	99.7	98.3	99.7	105.5	109.3	109.5	110.5	110.5	110.3	112.1
35°	84.2	86.8	88.4	92.6	99.7	102.9	101.5	99.2	95.0	92.4	92.1
37.5°	77.9	78.3	81.1	87.0	94.8	97.8	95.7	90.3	87.5	87.0	87.7
40°	74.8	75.3	76.9	82.3	90.0	93.1	91.2	87.3	84.6	84.4	85.6
42.5°	72.7	73.2	74.1	77.9	84.2	88.0	88.2	85.3	82.3	82.6	83.7
45°	71.5	71.8	71.5	73.4	79.2	83.7	85.6	83.7	81.1	81.6	83.0
47.5°	71.3	70.6	69.6	70.1	76.2	80.6	83.0	82.3	81.1	81.6	82.8
50°	70.4	68.7	67.5	67.3	73.4	78.1	80.2	80.2	80.6	81.6	82.8
52.5°	67.5	65.7	65.7	65.0	71.5	76.0	77.4	77.6	78.3	79.9	81.6
55°	64.0	63.3	64.0	62.8	70.1	74.3	75.0	75.5	76.0	77.4	79.7
57.5°	61.0	60.1	61.7	61.2	68.9	72.7	72.7	73.6	73.6	75.5	77.4
60°	59.4	57.4	58.1	58.6	67.3	71.3	70.9	71.8	72.2	73.9	75.3
62.5°	57.2	55.6	55.6	56.7	65.5	69.1	68.9	69.6	71.5	72.0	73.4
65°	54.7	54.0	53.2	54.7	63.5	66.8	67.1	68.0	69.6	70.1	71.3
67.5°	52.0	52.3	50.9	52.3	61.9	64.5	64.5	66.4	67.1	68.0	69.1
70°	49.3	49.5	48.3	50.0	60.8	61.9	61.7	64.2	64.7	65.5	66.6
72.5°	45.7	45.7	45.3	47.6	58.9	59.4	58.9	61.0	61.2	61.9	62.4
75°	42.0	42.0	41.5	44.8	57.7	56.5	55.1	56.7	57.2	57.7	57.7
77.5°	37.1	37.6	37.6	41.5	53.7	55.4	50.6	51.6	52.3	52.5	51.8
80°	31.0	32.2	32.6	37.8	45.0	51.1	45.3	45.9	46.2	46.2	45.3
82.5°	23.7	25.8	27.0	32.6	34.5	42.9	39.4	40.1	39.4	38.0	37.6
85°	16.4	19.2	20.7	24.8	26.1	33.1	32.8	32.8	31.5	29.5	29.3
87.5°	8.9	10.6	11.5	14.8	17.8	22.3	24.1	23.4	22.3	21.1	21.4
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1293.1	1324.9	1375.9	1414.8	1453.9	1491.7	1532.5	1563.7	1590.2	1600.5	1631.9
5°	1039.8	1079.7	1127.7	1214.5	1276.0	1343.7	1422.1	1525.7	1565.5	1620.7	1710.9
7.5°	735.2	771.3	848.7	918.8	1005.8	1101.7	1207.5	1350.5	1402.8	1491.2	1638.2
10°	549.0	590.9	653.1	712.2	788.9	886.9	1008.4	1168.3	1231.9	1327.8	1497.1
12.5°	442.3	491.8	557.7	613.2	672.6	741.7	859.7	1035.1	1120.3	1204.2	1375.4
15°	339.8	391.6	452.9	523.4	588.8	663.4	787.0	978.9	1076.8	1164.4	1310.4
17.5°	235.2	279.5	356.7	430.3	514.1	609.5	766.9	990.8	1107.8	1208.7	1321.7
20°	166.8	192.0	255.4	340.8	445.1	564.9	763.1	1053.6	1205.8	1321.0	1393.9
22.5°	140.2	149.6	186.4	264.7	385.3	531.6	776.2	1141.8	1338.1	1485.1	1509.0
25°	127.8	133.5	152.6	207.8	332.0	507.5	820.5	1273.1	1501.8	1649.3	1645.1
27.5°	121.0	126.9	139.5	175.4	292.0	492.5	864.8	1428.9	1688.9	1827.5	1775.0
30°	118.9	126.9	140.2	165.3	263.4	468.8	901.2	1565.5	1832.9	1947.8	1834.1
32.5°	117.3	118.4	124.5	142.6	236.1	441.1	925.8	1688.2	1973.8	2062.3	1919.2
35°	94.8	100.6	110.5	127.8	220.2	424.5	925.8	1794.0	2112.7	2177.9	2000.4
37.5°	91.2	96.4	105.1	119.8	211.3	416.2	907.3	1896.0	2254.5	2309.0	2067.2
40°	89.4	93.6	101.8	113.7	207.5	406.9	880.3	1986.0	2393.1	2440.3	2129.6
42.5°	88.0	91.7	99.5	110.0	202.6	396.6	858.5	2058.2	2513.5	2552.4	2189.2
45°	87.3	91.2	99.7	111.9	192.7	382.9	851.3	2136.3	2612.4	2645.9	2253.6
47.5°	87.3	91.9	100.8	115.9	181.0	368.9	874.0	2239.3	2706.0	2722.4	2329.6
50°	86.5	91.7	104.1	111.9	163.9	351.1	927.5	2369.0	2807.3	2809.1	2425.8
52.5°	85.1	91.2	112.1	109.5	144.2	327.6	999.7	2535.5	2957.2	2968.4	2576.3
55°	83.5	90.5	110.0	104.1	128.1	299.7	1058.8	2737.9	3167.7	3198.9	2797.7
57.5°	81.4	89.6	106.5	96.6	117.5	263.8	1080.2	2886.1	3314.8	3393.1	3047.2
60°	79.5	88.9	96.1	92.1	110.9	233.6	1038.8	2856.8	3304.7	3473.5	3268.3
62.5°	77.6	89.6	87.7	89.4	107.8	214.1	931.0	2622.0	3137.5	3390.5	3432.2
65°	75.5	83.3	82.8	87.0	107.2	206.4	771.8	2270.0	2814.3	3128.1	3470.9
67.5°	72.7	76.9	79.2	84.0	109.5	199.6	622.8	1872.5	2365.2	2734.8	3269.2
70°	69.6	73.2	75.7	80.2	108.1	196.5	518.0	1476.7	1876.8	2241.4	2871.3
72.5°	65.7	68.7	71.1	75.3	106.7	194.9	437.6	1189.2	1401.2	1665.0	2334.5
75°	61.0	63.8	65.5	69.6	102.2	178.5	344.0	1006.3	1048.5	1158.3	1859.4
77.5°	55.6	57.7	59.1	63.8	90.5	148.4	248.8	776.2	814.2	840.9	1425.5
80°	49.3	51.3	52.0	56.5	75.0	116.1	162.3	573.3	609.0	615.1	931.0
82.5°	42.0	44.1	44.1	48.3	61.4	83.5	106.5	392.8	399.8	420.5	658.0
85°	33.8	35.4	35.4	37.6	47.6	62.4	73.2	197.2	195.1	222.8	570.1
87.5°	24.1	25.3	26.5	27.0	34.0	41.2	44.1	60.1	39.6	45.5	366.0
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1655.6	1669.0	1655.4	1645.6	1603.1	1568.2	1521.5	1497.5
5°	1779.7	1813.7	1802.2	1760.9	1672.2	1572.6	1459.3	1408.2
7.5°	1764.7	1843.7	1845.5	1768.4	1637.8	1491.0	1337.7	1265.0
10°	1647.9	1748.9	1777.8	1703.0	1564.4	1400.3	1224.4	1141.4
12.5°	1517.5	1616.4	1638.5	1612.7	1496.9	1332.0	1153.6	1072.1
15°	1410.8	1455.2	1481.3	1503.9	1439.0	1304.8	1149.5	1060.2
17.5°	1345.8	1340.9	1348.4	1387.6	1398.6	1336.0	1210.5	1112.0
20°	1322.4	1247.1	1245.2	1299.2	1379.6	1410.4	1329.6	1211.4
22.5°	1335.3	1213.3	1197.9	1261.9	1389.7	1517.5	1485.8	1351.0
25°	1379.8	1216.2	1203.7	1265.7	1426.3	1631.7	1654.4	1531.5
27.5°	1450.0	1234.0	1217.5	1281.1	1474.8	1727.6	1820.5	1706.5
30°	1516.6	1265.0	1244.5	1311.6	1519.1	1765.6	1922.3	1843.0
32.5°	1597.5	1322.9	1287.0	1367.6	1574.0	1826.1	2013.0	1956.0
35°	1676.7	1405.4	1360.9	1454.2	1635.2	1901.4	2116.7	2100.5
37.5°	1763.8	1513.3	1476.4	1566.0	1719.0	1972.4	2248.9	2269.8
40°	1856.6	1656.3	1612.7	1729.3	1848.9	2061.6	2387.1	2437.2
42.5°	1950.2	1815.1	1763.0	1881.2	1991.6	2149.5	2505.2	2579.6
45°	2057.3	1987.5	1962.8	2090.6	2128.9	2233.2	2592.5	2684.9
47.5°	2182.1	2183.0	2222.7	2273.8	2267.2	2327.9	2680.2	2778.9
50°	2327.7	2427.1	2514.7	2548.6	2409.8	2429.7	2801.9	2904.8
52.5°	2502.7	2719.1	2827.5	2805.2	2563.4	2554.0	2994.6	3078.3
55°	2721.5	3028.2	3135.8	3119.9	2740.0	2723.3	3234.8	3283.6
57.5°	2974.7	3327.7	3426.6	3354.9	2952.0	2909.1	3433.5	3443.7
60°	3197.3	3565.0	3651.8	3572.2	3165.9	3106.7	3557.5	3507.5
62.5°	3321.1	3645.4	3706.4	3620.8	3312.4	3317.3	3584.7	3473.1
65°	3265.8	3442.1	3461.8	3454.8	3274.6	3439.5	3486.9	3313.8
67.5°	2962.8	2928.1	2961.1	3006.9	2951.1	3278.6	3216.0	2967.0
70°	2429.0	2238.4	2304.3	2335.0	2360.3	2821.3	2791.3	2416.6
72.5°	1830.6	1568.2	1620.2	1613.9	1731.1	2263.0	2170.8	1776.9
75°	1297.0	1063.3	1069.8	1067.2	1208.0	1770.5	1571.9	1215.7
77.5°	907.5	770.3	773.9	788.4	812.1	1335.3	1123.0	888.1
80°	624.0	584.6	604.1	605.3	562.8	897.0	829.7	712.7
82.5°	464.8	406.4	401.7	408.5	441.1	726.8	637.6	494.3
85°	380.6	240.6	193.5	242.5	390.9	719.7	423.5	260.8
87.5°	214.3	114.2	51.6	95.7	156.0	476.5	122.4	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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