

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: P299456

Luminaire Tested: **GLNA-AF-01-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299456  
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-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

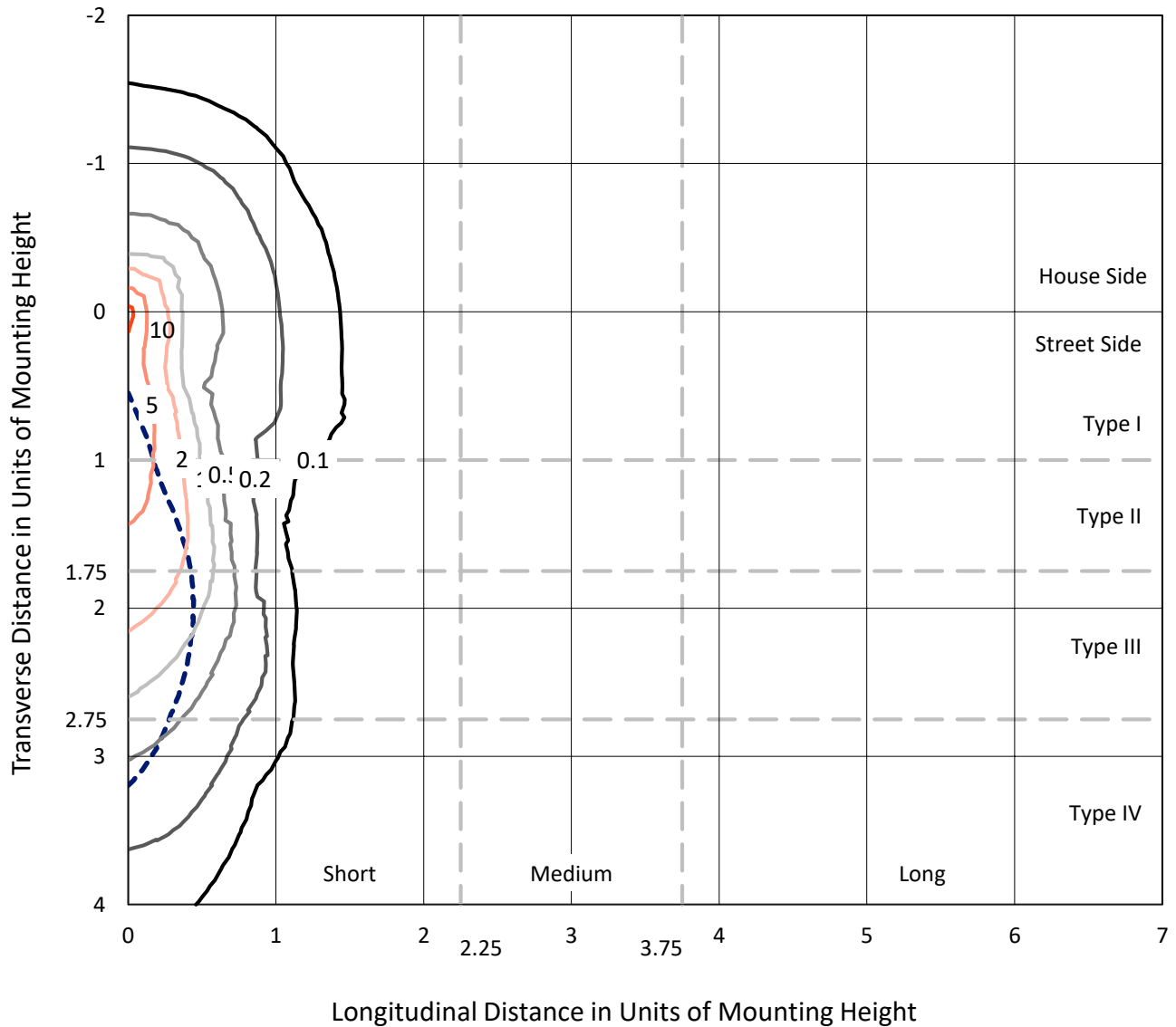
Lumens per Lamp: N/A  
Luminaire Lumens: 3478.6 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (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

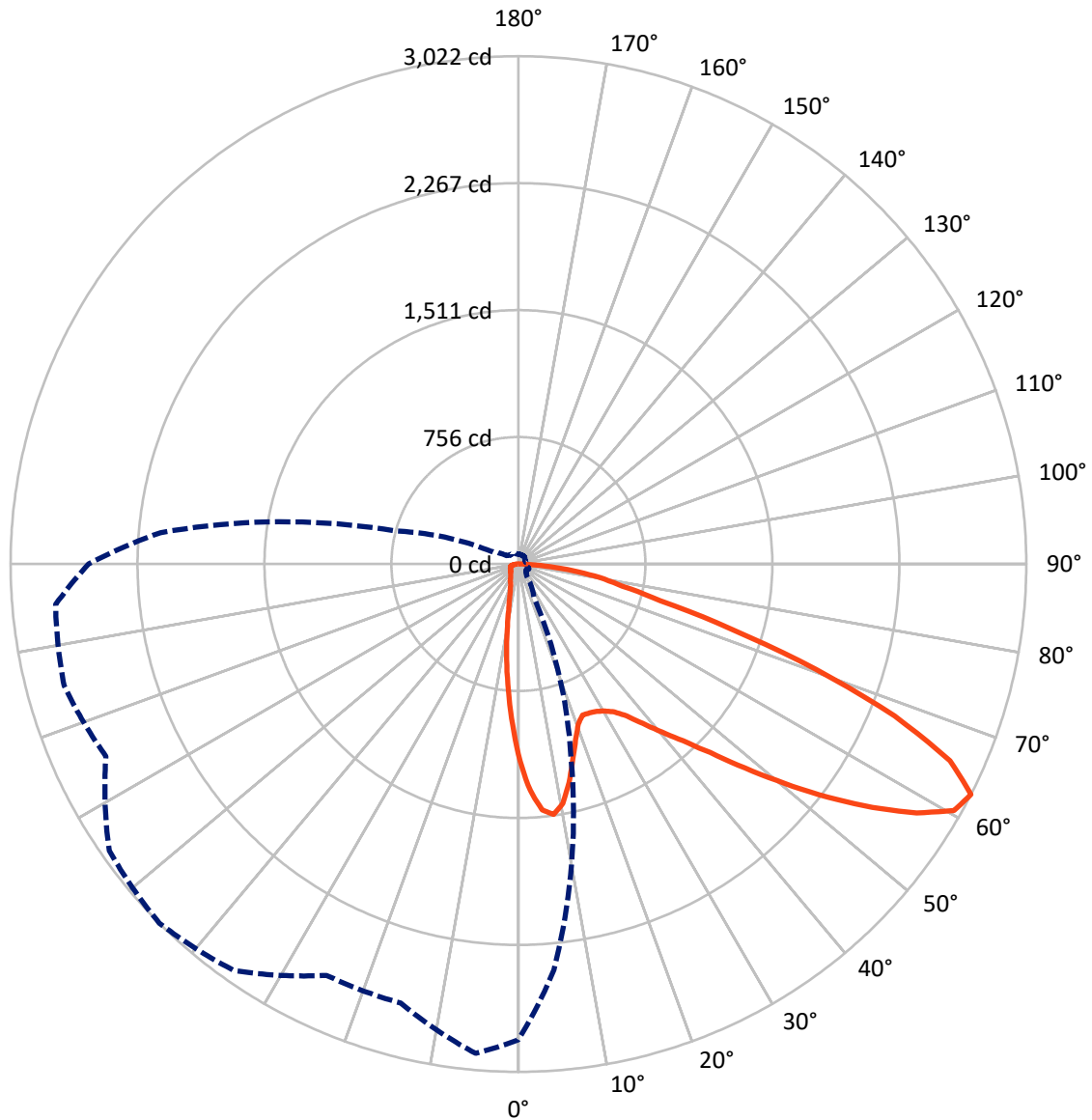
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 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	575.7	0.0	575.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	2902.9	0.0	2902.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3478.6	0.0	3478.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	2.5
10°-20°	156.9	4.5
20°-30°	228.7	6.6
30°-40°	352.3	10.1
40°-50°	518.5	14.9
50°-60°	760.5	21.9
60°-70°	850.1	24.4
70°-80°	416.2	12.0
80°-90°	109.9	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°	3478.6	100.0
0°-180°	3478.6	100.0



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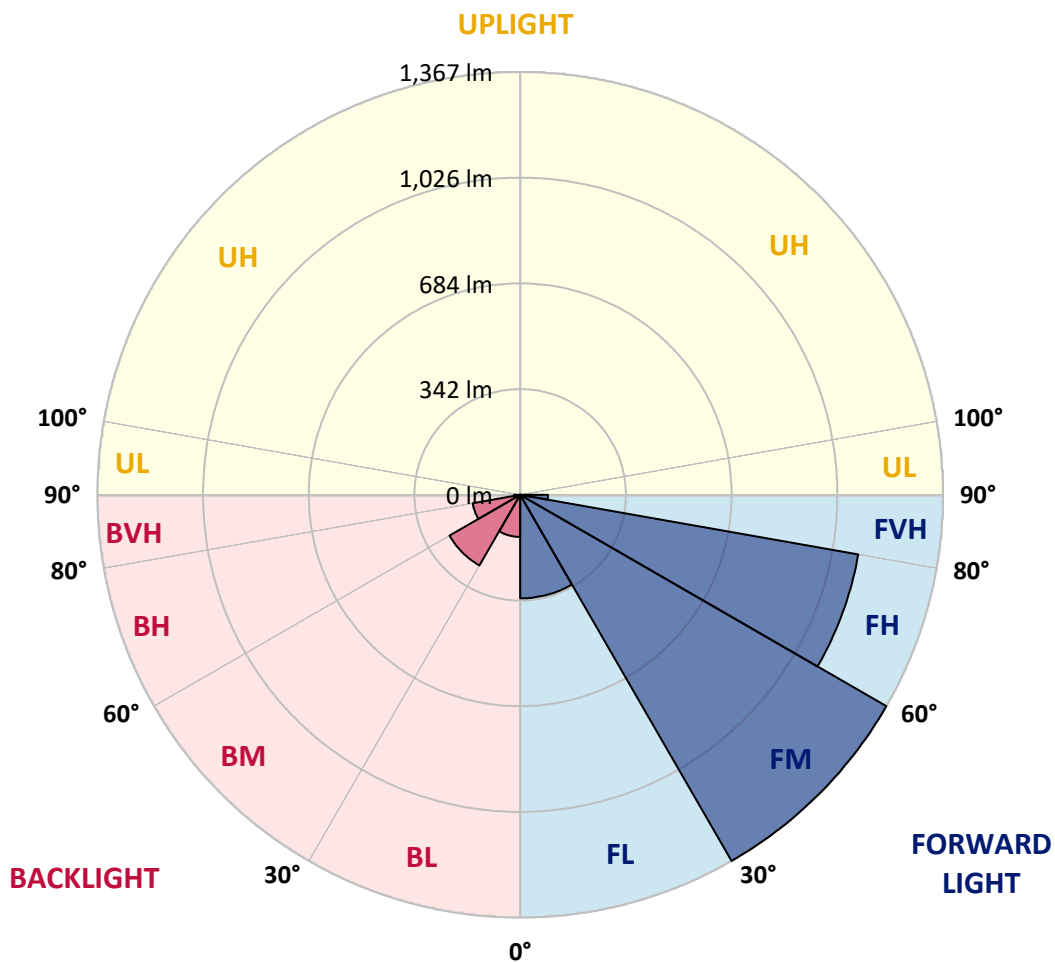
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.0	9.6			
FM	(30°-60°)	1367.5	39.3			
FH	(60°-80°)	1110.2	31.9			G1/1800
FVH	(80°-90°)	90.2	2.6			G1/100
BL	(0°-30°)	136.2	3.9	B1/500		
BM	(30°-60°)	263.8	7.6	B1/1000		
BH	(60°-80°)	156.1	4.5	B1/500		G1/500
BVH	(80°-90°)	19.6	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1221.1	1196.3	1155.0	1111.9	1085.8	1055.2	1031.2	1010.2	968.1	959.9	967.4
5°	1148.3	1098.4	1020.5	942.2	889.9	833.9	790.3	755.3	702.0	692.6	703.9
7.5°	1031.5	971.8	868.9	768.9	695.1	625.1	578.1	540.6	498.9	480.9	482.0
10°	930.7	863.4	741.7	633.0	572.5	525.3	485.7	447.3	405.0	377.3	369.6
12.5°	874.2	796.9	656.6	559.5	503.5	453.8	411.1	370.0	324.9	296.6	288.6
15°	864.5	780.4	624.7	512.5	442.3	379.4	329.1	283.2	236.7	213.8	209.0
17.5°	906.8	809.8	614.4	470.6	384.7	307.1	245.3	194.1	156.2	144.8	143.8
20°	987.8	866.4	613.1	431.2	327.9	236.9	170.9	133.7	117.1	113.8	114.0
22.5°	1101.6	954.2	629.5	401.6	275.7	176.7	128.5	111.8	105.4	102.3	102.3
25°	1248.9	1075.1	667.4	380.0	230.4	141.1	113.4	103.4	97.3	95.2	95.6
27.5°	1391.5	1192.6	711.3	363.0	200.8	128.1	107.4	98.5	93.1	91.0	92.0
30°	1502.8	1297.1	748.0	339.8	185.7	124.5	109.6	100.4	92.7	89.5	89.7
32.5°	1595.0	1388.5	778.8	323.1	172.3	106.7	94.5	90.4	89.5	85.7	83.8
35°	1712.8	1488.1	799.5	323.5	166.0	95.2	84.1	77.1	71.9	67.5	67.5
37.5°	1850.8	1602.4	821.5	327.9	163.7	88.5	80.5	73.4	68.7	64.4	63.7
40°	1987.3	1714.5	841.6	332.2	162.3	84.5	77.6	71.1	66.7	62.5	61.4
42.5°	2103.5	1806.7	859.5	334.3	157.7	84.1	75.5	69.6	65.4	60.8	59.7
45°	2189.3	1883.9	878.9	337.5	153.2	85.7	75.5	69.4	64.3	59.9	58.7
47.5°	2266.0	1974.6	911.2	337.5	147.6	82.8	78.0	69.6	64.1	59.5	58.5
50°	2368.7	2098.8	972.4	329.7	139.8	79.7	82.2	68.8	62.3	58.7	57.5
52.5°	2510.1	2258.2	1069.5	316.1	127.8	73.8	81.6	68.5	60.6	56.8	55.5
55°	2677.5	2428.7	1175.4	300.2	109.8	69.6	78.8	67.5	58.7	54.5	53.1
57.5°	2808.1	2546.1	1250.0	275.7	94.1	67.3	69.8	66.6	56.4	52.0	50.9
60°	2860.1	2541.5	1270.5	243.0	86.4	65.4	61.0	74.6	54.5	50.1	48.7
62.5°	2832.0	2424.1	1213.1	220.1	84.7	62.9	57.2	69.0	53.0	48.7	46.8
65°	2702.2	2216.1	1061.1	214.0	89.7	60.4	54.7	54.1	50.9	46.8	44.9
67.5°	2419.3	1905.1	849.6	214.5	96.0	57.9	52.2	49.6	48.0	44.7	43.0
70°	1970.6	1506.3	633.3	216.1	99.2	55.1	49.6	46.7	44.9	41.7	40.5
72.5°	1448.9	1160.9	460.1	206.1	99.8	51.8	45.9	43.4	41.7	38.3	37.3
75°	991.3	888.0	319.1	170.8	87.0	47.2	41.9	39.6	38.4	34.2	33.6
77.5°	724.1	666.6	204.2	126.8	67.1	41.5	36.9	35.2	34.4	29.8	29.1
80°	581.2	527.4	127.8	86.8	49.1	34.8	31.0	30.0	29.2	24.7	24.1
82.5°	403.1	353.2	82.0	56.4	36.9	27.0	24.5	24.1	22.9	18.8	18.2
85°	212.6	191.8	52.0	38.4	26.7	18.5	17.0	17.0	16.4	12.4	12.0
87.5°	27.2	44.2	26.4	20.1	14.7	8.2	8.2	8.0	8.6	7.1	6.1
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°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	949.8	959.0	950.2	950.8	960.5	989.6	1002.8	1013.6	1025.3	1033.0	1036.4
5°	688.4	709.8	717.1	732.4	754.9	792.0	806.7	817.5	824.6	828.7	830.5
7.5°	470.8	483.8	498.3	523.0	572.1	593.9	603.7	601.2	593.2	590.3	587.5
10°	354.9	349.8	347.0	360.7	400.4	422.4	429.3	422.6	418.2	419.2	423.9
12.5°	275.0	266.0	255.1	253.6	279.8	299.5	303.9	304.2	312.3	319.3	329.9
15°	200.4	199.4	194.1	190.9	205.7	221.8	223.7	227.2	234.5	239.6	248.8
17.5°	141.3	146.5	150.7	152.8	164.1	175.5	173.4	171.7	170.4	170.4	174.8
20°	114.0	117.4	122.8	128.9	140.4	148.4	143.2	136.3	131.4	129.8	130.4
22.5°	102.7	105.4	108.4	113.8	124.1	129.7	124.1	119.1	114.2	112.4	111.8
25°	97.0	100.4	103.3	107.3	114.9	118.7	113.4	109.8	106.7	104.6	103.0
27.5°	93.7	96.7	97.5	99.5	105.9	109.4	106.7	105.2	103.3	101.4	99.5
30°	90.2	89.7	88.3	88.5	93.7	97.1	97.0	97.3	97.1	96.6	96.2
32.5°	82.4	81.3	80.1	81.3	86.0	89.1	89.3	90.1	90.1	89.9	91.4
35°	68.7	70.7	72.1	75.5	81.3	83.9	82.8	80.9	77.5	75.3	75.1
37.5°	63.5	63.9	66.2	70.9	77.3	79.7	78.0	73.6	71.3	70.9	71.5
40°	61.0	61.4	62.7	67.1	73.4	75.9	74.4	71.1	69.0	68.8	69.8
42.5°	59.3	59.7	60.4	63.5	68.7	71.7	71.9	69.6	67.1	67.3	68.3
45°	58.3	58.5	58.3	59.9	64.6	68.3	69.8	68.3	66.2	66.6	67.7
47.5°	58.1	57.5	56.8	57.2	62.2	65.8	67.7	67.1	66.2	66.6	67.5
50°	57.4	56.0	55.1	54.9	59.9	63.7	65.4	65.4	65.8	66.6	67.5
52.5°	55.1	53.5	53.5	53.0	58.3	61.9	63.1	63.3	63.9	65.2	66.6
55°	52.2	51.6	52.2	51.2	57.2	60.6	61.2	61.6	61.9	63.1	65.0
57.5°	49.7	49.0	50.3	49.9	56.2	59.3	59.3	60.0	60.0	61.6	63.1
60°	48.4	46.8	47.4	47.8	54.9	58.1	57.8	58.5	58.9	60.3	61.4
62.5°	46.7	45.3	45.3	46.3	53.4	56.4	56.2	56.8	58.3	58.7	59.9
65°	44.6	44.0	43.4	44.6	51.8	54.5	54.7	55.5	56.8	57.2	58.1
67.5°	42.4	42.7	41.5	42.7	50.5	52.6	52.6	54.1	54.7	55.5	56.4
70°	40.2	40.3	39.4	40.8	49.6	50.5	50.3	52.4	52.8	53.4	54.3
72.5°	37.3	37.3	36.9	38.8	48.0	48.4	48.0	49.7	49.9	50.5	50.9
75°	34.2	34.2	33.9	36.5	47.1	46.1	44.9	46.3	46.7	47.1	47.1
77.5°	30.2	30.6	30.6	33.9	43.8	45.2	41.3	42.1	42.7	42.8	42.3
80°	25.2	26.2	26.6	30.8	36.7	41.7	36.9	37.5	37.7	37.7	36.9
82.5°	19.3	21.0	22.0	26.6	28.1	35.0	32.1	32.7	32.1	31.0	30.6
85°	13.4	15.7	16.8	20.3	21.2	27.0	26.7	26.7	25.6	24.1	23.9
87.5°	7.3	8.6	9.4	12.0	14.5	18.2	19.7	19.1	18.2	17.2	17.4
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°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1054.4	1080.4	1121.9	1153.6	1185.6	1216.4	1249.7	1275.1	1296.7	1305.1	1330.7
5°	847.9	880.4	919.6	990.3	1040.4	1095.7	1159.6	1244.1	1276.6	1321.6	1395.1
7.5°	599.5	628.9	692.0	749.2	820.2	898.4	984.6	1101.2	1143.9	1216.0	1335.9
10°	447.7	481.9	532.5	580.7	643.3	723.2	822.3	952.7	1004.5	1082.7	1220.8
12.5°	360.7	401.0	454.7	500.1	548.4	604.8	701.0	844.0	913.5	981.9	1121.5
15°	277.1	319.3	369.3	426.8	480.1	541.0	641.8	798.2	878.1	949.4	1068.5
17.5°	191.8	227.9	290.8	350.9	419.2	497.0	625.3	807.9	903.3	985.6	1077.7
20°	136.0	156.6	208.2	277.9	363.0	460.6	622.3	859.1	983.3	1077.2	1136.6
22.5°	114.3	122.0	152.0	215.9	314.2	433.5	633.0	931.0	1091.1	1211.0	1230.5
25°	104.2	108.8	124.5	169.4	270.7	413.8	669.1	1038.1	1224.6	1344.9	1341.4
27.5°	98.6	103.4	113.8	143.0	238.1	401.6	705.2	1165.1	1377.2	1490.2	1447.4
30°	97.0	103.4	114.3	134.8	214.8	382.2	734.9	1276.6	1494.6	1588.3	1495.6
32.5°	95.6	96.6	101.5	116.2	192.5	359.7	754.9	1376.6	1609.5	1681.6	1565.0
35°	77.3	82.0	90.1	104.2	179.6	346.1	754.9	1462.9	1722.7	1775.9	1631.2
37.5°	74.4	78.6	85.7	97.7	172.3	339.4	739.8	1546.1	1838.4	1882.8	1685.6
40°	72.9	76.3	83.0	92.7	169.2	331.8	717.8	1619.5	1951.4	1989.8	1736.5
42.5°	71.7	74.8	81.1	89.7	165.2	323.4	700.1	1678.3	2049.5	2081.2	1785.1
45°	71.1	74.4	81.3	91.2	157.2	312.3	694.2	1742.0	2130.2	2157.5	1837.6
47.5°	71.1	75.0	82.2	94.5	147.6	300.8	712.7	1826.0	2206.5	2219.9	1899.6
50°	70.6	74.8	84.9	91.2	133.7	286.3	756.3	1931.7	2289.1	2290.6	1978.0
52.5°	69.4	74.4	91.4	89.3	117.6	267.2	815.2	2067.5	2411.3	2420.5	2100.8
55°	68.1	73.8	89.7	84.9	104.4	244.4	863.4	2232.5	2583.0	2608.4	2281.3
57.5°	66.3	73.1	86.8	78.8	95.8	215.1	880.8	2353.4	2702.9	2766.8	2484.7
60°	64.8	72.5	78.4	75.1	90.4	190.5	847.1	2329.5	2694.7	2832.4	2665.1
62.5°	63.3	73.1	71.5	72.9	87.9	174.6	759.2	2138.0	2558.4	2764.7	2798.7
65°	61.6	67.9	67.5	70.9	87.4	168.3	629.3	1851.0	2294.9	2550.7	2830.3
67.5°	59.3	62.7	64.6	68.5	89.3	162.7	507.9	1526.9	1928.6	2230.0	2665.8
70°	56.8	59.7	61.8	65.4	88.2	160.2	422.4	1204.1	1530.4	1827.7	2341.3
72.5°	53.5	56.0	57.9	61.4	87.0	158.9	356.8	969.7	1142.6	1357.7	1903.6
75°	49.7	52.0	53.4	56.8	83.4	145.5	280.5	820.5	855.0	944.5	1516.2
77.5°	45.3	47.1	48.2	52.0	73.8	121.0	202.9	633.0	663.9	685.7	1162.4
80°	40.2	41.9	42.4	46.1	61.2	94.6	132.3	467.5	496.6	501.6	759.2
82.5°	34.2	35.9	35.9	39.4	50.1	68.1	86.8	320.3	326.0	342.9	536.6
85°	27.6	28.9	28.9	30.6	38.8	50.9	59.7	160.8	159.1	181.7	464.9
87.5°	19.7	20.7	21.6	22.0	27.7	33.6	35.9	49.0	32.3	37.1	298.5
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1350.0	1360.9	1349.8	1341.8	1307.2	1278.7	1240.6	1221.1
5°	1451.2	1478.9	1469.5	1435.9	1363.6	1282.3	1190.0	1148.3
7.5°	1439.0	1503.4	1504.9	1442.0	1335.5	1215.8	1090.8	1031.5
10°	1343.7	1426.1	1449.7	1388.7	1275.7	1141.8	998.4	930.7
12.5°	1237.4	1318.1	1336.1	1315.0	1220.6	1086.1	940.6	874.2
15°	1150.4	1186.6	1207.9	1226.3	1173.4	1064.0	937.3	864.5
17.5°	1097.4	1093.4	1099.6	1131.5	1140.4	1089.4	987.1	906.8
20°	1078.3	1016.9	1015.4	1059.4	1125.0	1150.0	1084.2	987.8
22.5°	1088.8	989.4	976.8	1029.0	1133.2	1237.4	1211.6	1101.6
25°	1125.1	991.7	981.5	1032.1	1163.0	1330.5	1349.1	1248.9
27.5°	1182.3	1006.2	992.8	1044.7	1202.6	1408.7	1484.5	1391.5
30°	1236.6	1031.5	1014.8	1069.5	1238.7	1439.7	1567.5	1502.8
32.5°	1302.6	1078.7	1049.4	1115.2	1283.5	1489.0	1641.5	1595.0
35°	1367.2	1146.0	1109.7	1185.8	1333.4	1550.5	1726.0	1712.8
37.5°	1438.2	1234.0	1203.9	1277.0	1401.7	1608.3	1833.8	1850.8
40°	1513.9	1350.6	1315.0	1410.1	1507.6	1681.1	1946.5	1987.3
42.5°	1590.2	1480.1	1437.6	1534.0	1624.0	1752.7	2042.8	2103.5
45°	1677.6	1620.6	1600.5	1704.7	1735.9	1821.0	2114.0	2189.3
47.5°	1779.4	1780.1	1812.4	1854.1	1848.8	1898.3	2185.5	2266.0
50°	1898.1	1979.1	2050.5	2078.2	1965.0	1981.3	2284.7	2368.7
52.5°	2040.7	2217.2	2305.6	2287.4	2090.3	2082.6	2441.9	2510.1
55°	2219.1	2469.3	2557.0	2544.0	2234.2	2220.6	2637.7	2677.5
57.5°	2425.6	2713.5	2794.2	2735.6	2407.1	2372.1	2799.7	2808.1
60°	2607.1	2907.0	2977.7	2912.9	2581.5	2533.3	2900.8	2860.1
62.5°	2708.1	2972.6	3022.3	2952.5	2701.0	2705.0	2923.0	2832.0
65°	2663.0	2806.8	2822.8	2817.1	2670.2	2804.6	2843.3	2702.2
67.5°	2415.9	2387.6	2414.6	2451.9	2406.4	2673.5	2622.4	2419.3
70°	1980.7	1825.2	1879.0	1904.0	1924.7	2300.6	2276.1	1970.6
72.5°	1492.7	1278.7	1321.2	1316.0	1411.6	1845.3	1770.1	1448.9
75°	1057.6	867.0	872.3	870.3	985.0	1443.7	1281.8	991.3
77.5°	740.0	628.2	631.1	642.9	662.2	1088.8	915.8	724.1
80°	508.8	476.7	492.6	493.6	458.9	731.4	676.6	581.2
82.5°	379.0	331.4	327.5	333.1	359.7	592.6	519.9	403.1
85°	310.3	196.2	157.7	197.8	318.7	586.9	345.4	212.6
87.5°	174.8	93.1	42.1	78.0	127.2	388.6	99.8	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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