

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: P228724

Luminaire Tested: **ISS-AF-1200-LED-E1-RW-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-1200-LED-E1-RW-7030-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I, WITH UPLIGHT  
GLOW  
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7236.2 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B2 - U5 - G2  
  
Input Watts (W): 82.7  
Input Voltage (V): 120  
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

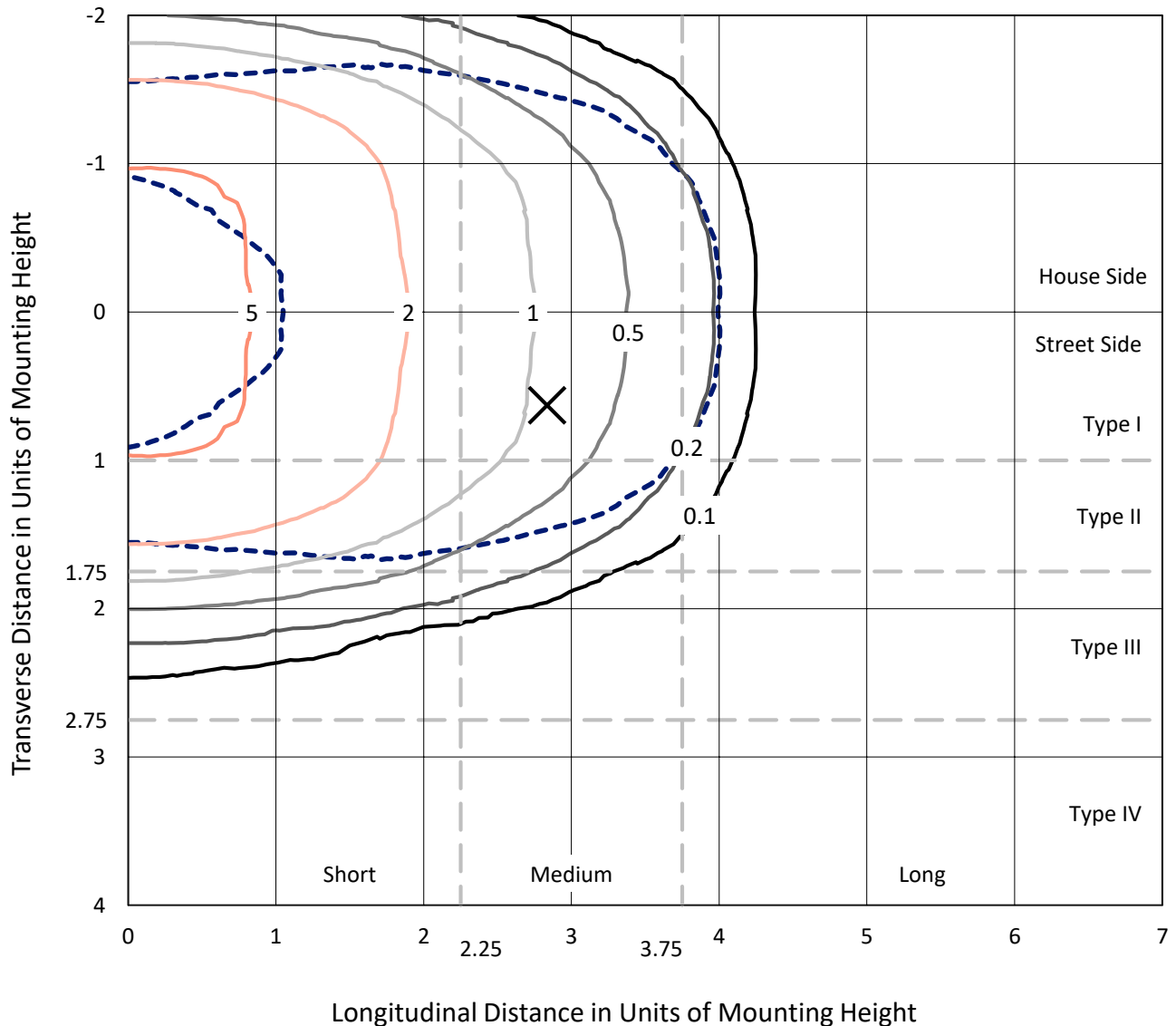


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### Iso-Footcandle Lines of Horizontal Illumination

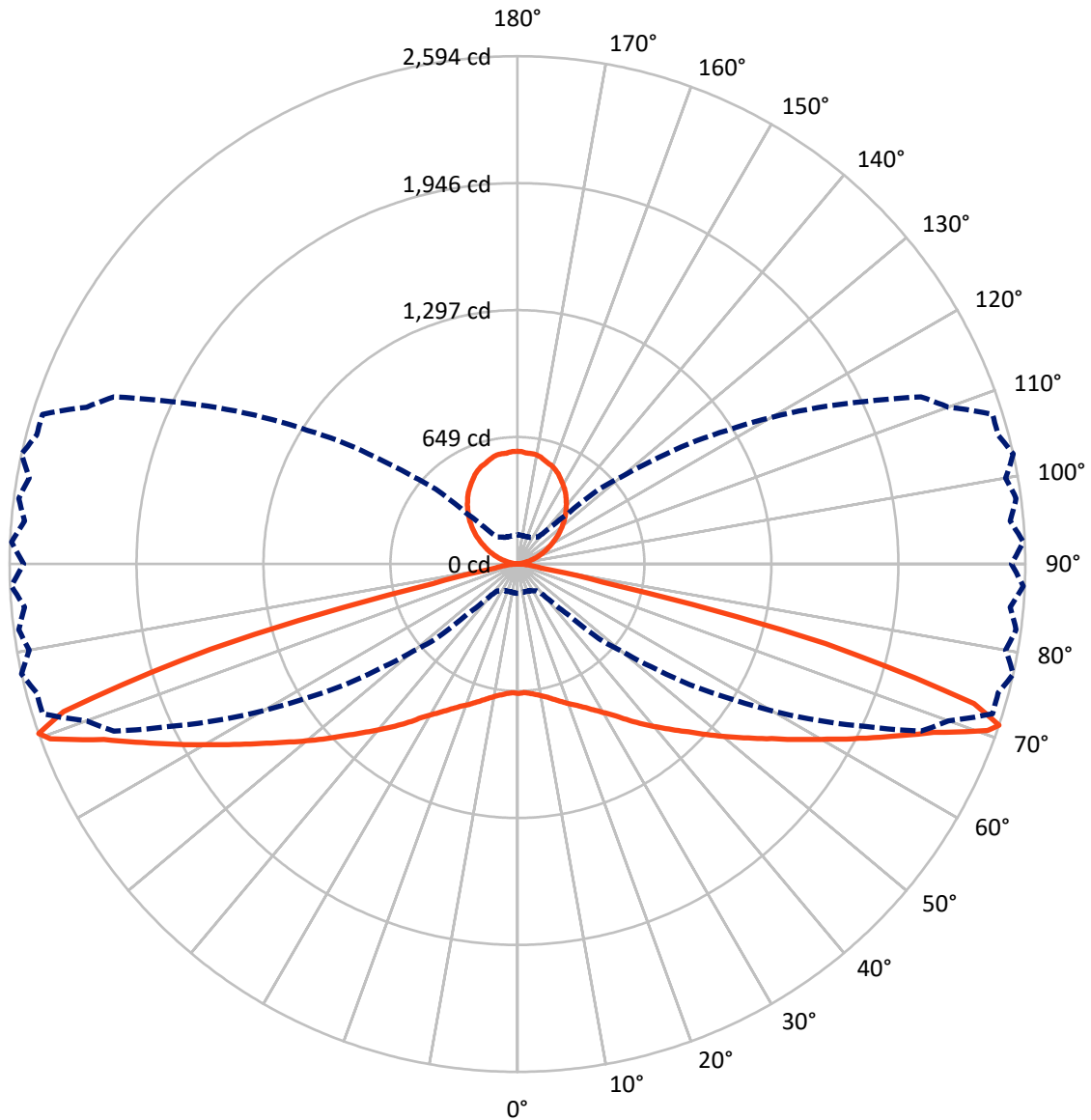
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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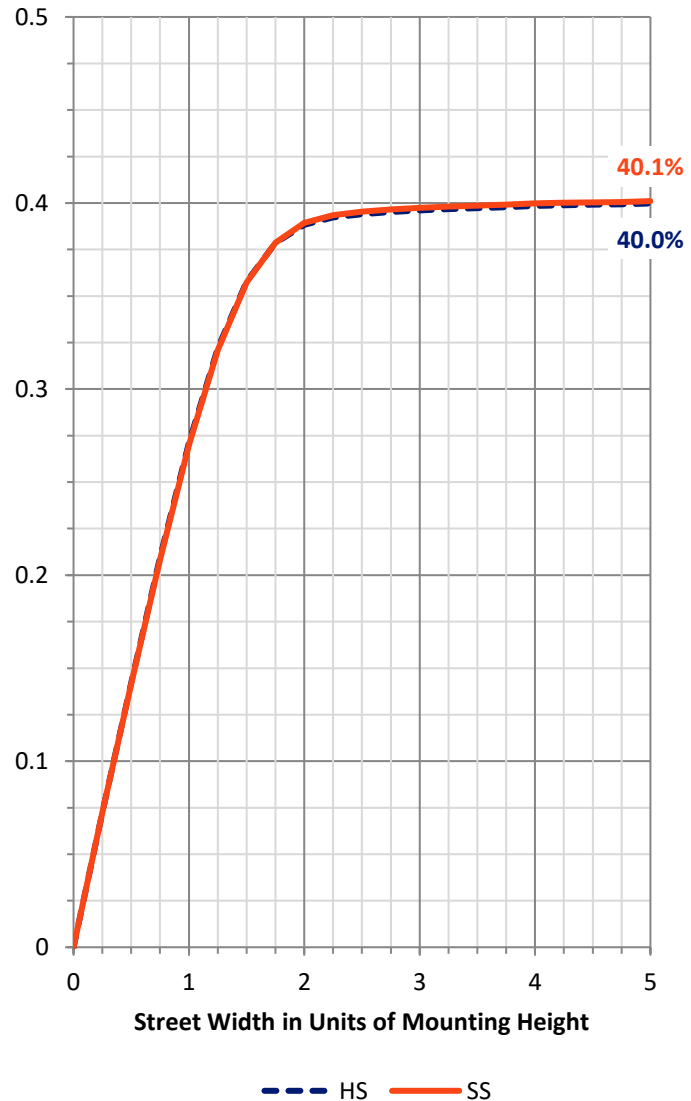
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2905.0	713.1	3618.1
	% Fixture	40.1	9.9	50.0
<b>Street Side</b>	Lumens	2905.0	713.1	3618.1
	% Fixture	40.1	9.9	50.0
<b>Total</b>	Lumens	5810.0	1426.2	7236.2
	% Fixture	80.3	19.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	0.9
10°-20°	199.7	2.8
20°-30°	373.7	5.2
30°-40°	650.5	9.0
40°-50°	1061.4	14.7
50°-60°	1464.8	20.2
60°-70°	1389.4	19.2
70°-80°	571.9	7.9
80°-90°	34.6	0.5
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.1
120°-130°	223.9	3.1
130°-140°	265.6	3.7
140°-150°	269.3	3.7
150°-160°	231.1	3.2
160°-170°	155.1	2.1
170°-180°	54.3	0.8
0°-90°	5810.0	80.3
0°-180°	7236.2	100.0



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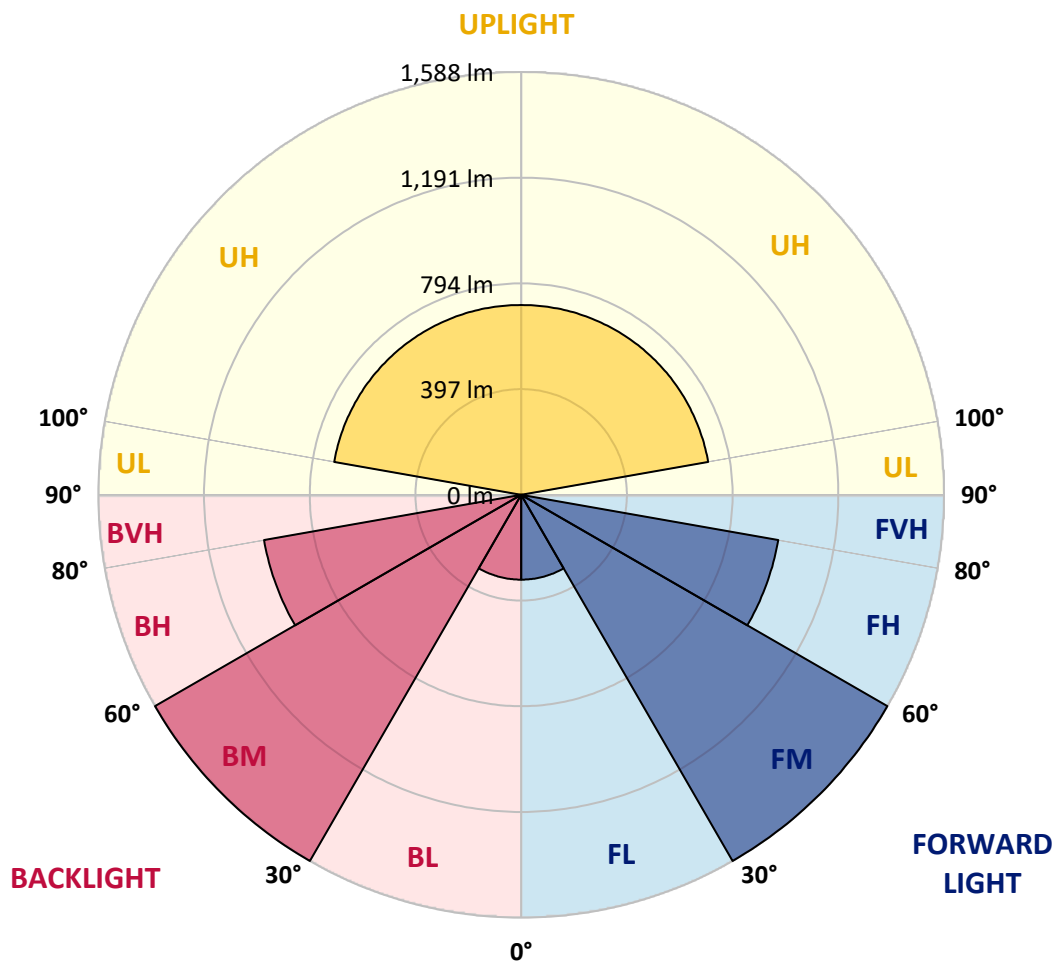
CATALOG NUMBER: ISS-AF-1200-LED-E1-RW-7030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.7	4.4			
FM (30°-60°)	1588.3	21.9			
FH (60°-80°)	980.7	13.6			G1/1800
FVH (80°-90°)	17.3	0.2			G1/100
BL (0°-30°)	318.7	4.4	B1/500		
BM (30°-60°)	1588.3	21.9	B2/2500		
BH (60°-80°)	980.7	13.6	B2/1000		G2/1000
BVH (80°-90°)	17.3	0.2			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	9.9		U4/1000	

**BUG Rating: B2-U5-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	659.6	657.7	659.6	659.6	661.6	661.6	661.6	661.6	659.6	663.5	663.5
5°	659.6	659.6	661.6	661.6	665.4	669.3	663.5	665.4	667.3	665.4	669.3
7.5°	659.6	659.6	659.6	663.5	669.3	673.1	669.3	671.2	675.0	675.0	678.9
10°	653.9	652.0	655.8	663.5	673.1	678.9	677.0	684.6	682.7	684.6	688.5
12.5°	644.3	644.3	652.0	663.5	680.8	684.6	686.6	690.4	696.2	694.3	700.0
15°	646.2	648.1	655.8	671.2	692.3	696.2	698.1	698.1	707.7	703.9	715.4
17.5°	659.6	661.6	669.3	684.6	709.7	709.7	711.6	715.4	728.9	721.2	736.6
20°	680.8	682.7	690.4	707.7	730.8	728.9	732.7	736.6	753.9	746.2	761.6
22.5°	705.8	709.7	719.3	738.5	763.5	752.0	759.7	767.3	784.7	771.2	792.3
25°	740.4	746.2	755.8	777.0	803.9	790.4	798.1	803.9	823.1	803.9	825.0
27.5°	790.4	794.3	802.0	825.0	848.1	838.5	842.3	846.2	869.3	848.1	871.2
30°	850.0	855.8	863.5	884.7	907.7	892.4	900.0	903.9	923.1	902.0	921.2
32.5°	925.0	930.8	940.4	959.7	978.9	955.8	957.7	963.5	982.7	961.6	982.7
35°	1013.5	1017.4	1030.8	1053.9	1067.4	1030.8	1032.7	1032.7	1057.7	1028.9	1052.0
37.5°	1105.8	1109.7	1125.1	1148.1	1163.5	1123.1	1123.1	1125.1	1148.1	1115.4	1136.6
40°	1202.0	1213.5	1230.8	1253.9	1265.4	1219.3	1223.1	1221.2	1248.1	1209.7	1230.8
42.5°	1298.1	1307.8	1332.8	1359.7	1373.1	1327.0	1328.9	1323.1	1350.1	1309.7	1327.0
45°	1380.8	1388.5	1419.3	1457.8	1478.9	1430.8	1430.8	1430.8	1457.8	1407.8	1428.9
47.5°	1448.1	1453.9	1486.6	1542.4	1577.0	1528.9	1532.8	1525.1	1565.5	1503.9	1532.8
50°	1496.2	1498.2	1540.5	1603.9	1663.5	1619.3	1625.1	1628.9	1667.4	1613.5	1638.5
52.5°	1511.6	1515.5	1563.5	1640.5	1727.0	1698.2	1719.3	1727.0	1761.6	1703.9	1738.5
55°	1457.8	1467.4	1540.5	1653.9	1771.2	1761.6	1786.6	1802.0	1846.2	1798.2	1834.7
57.5°	1277.0	1288.5	1390.5	1577.0	1780.9	1796.2	1830.9	1855.9	1919.3	1890.5	1930.9
60°	1019.3	1028.9	1132.7	1357.8	1659.7	1753.9	1832.8	1903.9	1969.3	1975.1	2027.0
62.5°	700.0	713.5	813.5	1028.9	1396.2	1521.2	1634.7	1752.0	1861.6	1994.3	2061.6
65°	342.3	350.0	434.6	642.3	1025.1	1184.7	1317.4	1482.8	1584.7	1775.1	1884.7
67.5°	188.5	188.5	201.9	267.3	548.1	705.8	848.1	1055.8	1159.7	1394.3	1534.7
70°	157.7	157.7	153.9	163.5	207.7	246.2	319.2	438.5	582.7	819.3	946.2
71°	150.0	148.1	146.2	150.0	167.3	175.0	205.8	269.2	365.4	565.4	690.4
72.5°	140.4	136.5	130.8	132.7	142.3	142.3	148.1	157.7	194.2	265.4	355.8
75°	121.2	117.3	111.5	111.5	113.5	115.4	117.3	121.2	123.1	126.9	142.3
77.5°	100.0	96.2	90.4	90.4	88.5	90.4	94.2	96.2	92.3	100.0	101.9
80°	76.9	71.2	69.2	69.2	67.3	65.4	65.4	65.4	67.3	71.2	73.1
82.5°	48.1	44.2	46.2	44.2	42.3	42.3	42.3	42.3	44.2	44.2	48.1
85°	23.1	23.1	25.0	23.1	19.2	19.2	17.3	15.4	17.3	15.4	19.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0





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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	657.7	661.6	659.6	661.6	657.7	661.6	655.8	661.6	659.6	661.6	657.7
5°	663.5	669.3	663.5	671.2	663.5	671.2	663.5	671.2	665.4	671.2	663.5
7.5°	669.3	680.8	673.1	682.7	673.1	684.6	673.1	684.6	677.0	686.6	673.1
10°	680.8	694.3	682.7	694.3	682.7	696.2	682.7	698.1	686.6	702.0	684.6
12.5°	690.4	705.8	694.3	709.7	692.3	713.5	696.2	719.3	700.0	723.1	700.0
15°	703.9	723.1	711.6	728.9	711.6	734.7	713.5	740.4	719.3	744.3	719.3
17.5°	723.1	744.3	728.9	750.0	730.8	755.8	732.7	761.6	740.4	765.4	740.4
20°	750.0	767.3	752.0	775.0	753.9	777.0	757.7	780.8	763.5	786.6	763.5
22.5°	780.8	796.2	784.7	798.1	778.9	798.1	778.9	798.1	784.7	803.9	784.7
25°	815.4	827.0	813.5	827.0	809.7	825.0	807.7	823.1	809.7	827.0	813.5
27.5°	861.6	867.4	852.0	863.5	842.3	857.7	838.5	853.9	840.4	855.8	846.2
30°	911.6	917.4	902.0	909.7	886.6	896.2	875.0	888.5	877.0	888.5	882.7
32.5°	967.4	975.0	957.7	961.6	942.4	944.3	927.0	932.7	923.1	927.0	925.0
35°	1030.8	1040.4	1021.2	1027.0	1005.8	1005.8	990.4	988.5	984.7	980.8	980.8
37.5°	1111.6	1115.4	1100.1	1100.1	1075.1	1075.1	1055.8	1055.8	1048.1	1040.4	1036.6
40°	1200.1	1202.0	1177.0	1175.1	1150.1	1150.1	1128.9	1123.1	1109.7	1100.1	1094.3
42.5°	1294.3	1292.4	1255.8	1259.7	1223.1	1225.1	1198.1	1192.4	1178.9	1167.4	1155.8
45°	1390.5	1382.8	1346.2	1344.3	1302.0	1303.9	1271.2	1267.4	1248.1	1236.6	1223.1
47.5°	1488.5	1484.7	1444.3	1434.7	1390.5	1388.5	1346.2	1346.2	1327.0	1315.4	1302.0
50°	1590.5	1588.5	1542.4	1536.6	1490.5	1482.8	1432.8	1432.8	1409.7	1405.8	1386.6
52.5°	1702.0	1694.3	1644.3	1642.4	1598.2	1592.4	1538.5	1534.7	1500.1	1498.2	1477.0
55°	1811.6	1798.2	1765.5	1750.1	1705.9	1703.9	1655.9	1646.2	1602.0	1602.0	1575.1
57.5°	1911.6	1900.1	1873.2	1859.7	1817.4	1811.6	1759.7	1759.7	1721.2	1719.3	1690.5
60°	2015.5	2019.3	1990.5	1984.7	1944.3	1942.4	1890.5	1890.5	1852.0	1850.1	1817.4
62.5°	2104.0	2142.4	2130.9	2134.7	2100.1	2094.3	2042.4	2038.6	1994.3	1988.6	1961.6
65°	2017.4	2152.0	2238.6	2296.3	2292.4	2290.5	2240.5	2232.8	2177.0	2161.6	2117.4
67.5°	1694.3	1869.3	2027.0	2200.1	2327.0	2423.2	2452.0	2440.5	2392.4	2348.2	2294.3
70°	1134.7	1336.6	1536.6	1752.0	1969.3	2180.9	2398.2	2492.4	2592.4	2557.8	2548.2
71°	863.5	1071.2	1271.2	1498.2	1728.9	1963.6	2230.9	2342.4	2544.4	2542.4	2594.4
72.5°	486.6	671.2	884.7	1082.7	1300.1	1542.4	1817.4	1940.5	2230.9	2288.6	2438.6
75°	155.8	213.5	282.7	446.2	580.8	802.0	1005.8	1128.9	1321.2	1417.4	1627.0
77.5°	103.9	115.4	119.2	138.5	155.8	221.2	300.0	367.3	403.9	423.1	444.3
80°	75.0	80.8	84.6	94.2	96.2	107.7	107.7	119.2	117.3	125.0	119.2
82.5°	48.1	53.8	55.8	59.6	61.5	69.2	73.1	80.8	80.8	84.6	82.7
85°	23.1	26.9	26.9	30.8	30.8	36.5	36.5	42.3	42.3	48.1	46.2
87.5°	1.9	1.9	1.9	3.8	3.8	3.8	5.8	7.7	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0	4.8
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0	26.8
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0	48.2
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0	69.5
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0	91.2



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0	113.2
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0	135.5
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.5
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0	180.5
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.5
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0	230.0
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.8
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0	278.8
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0	302.8
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0	326.8
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0	349.5
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0	371.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0	393.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0	413.8
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0	434.8
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0	453.8
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	470.0
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.8
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0	504.8
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0	519.2
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.8
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0	538.5
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0	548.5
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0	560.0
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0	567.2
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0	568.8
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0	568.8
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0	574.8
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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**CANDELA DISTRIBUTION (continued):**

	80°	82.5°	85°	87.5°	90°
0°	661.6	661.6	661.6	661.6	661.6
2.5°	663.5	661.6	663.5	659.6	663.5
5°	673.1	665.4	675.0	665.4	675.0
7.5°	688.5	678.9	690.4	675.0	688.5
10°	702.0	688.5	703.9	688.5	702.0
12.5°	725.0	703.9	728.9	703.9	728.9
15°	748.1	723.1	753.9	727.0	752.0
17.5°	769.3	746.2	775.0	748.1	773.1
20°	788.5	767.3	792.3	765.4	792.3
22.5°	807.7	794.3	813.5	794.3	813.5
25°	832.7	823.1	836.6	823.1	836.6
27.5°	861.6	857.7	865.4	855.8	867.4
30°	894.3	896.2	898.1	896.2	900.0
32.5°	934.7	944.3	940.4	940.4	940.4
35°	990.4	1007.7	996.2	1000.0	998.1
37.5°	1042.4	1067.4	1052.0	1057.7	1053.9
40°	1100.1	1117.4	1113.5	1113.5	1109.7
42.5°	1163.5	1184.7	1178.9	1180.8	1177.0
45°	1232.8	1252.0	1244.3	1242.4	1244.3
47.5°	1311.6	1332.8	1323.1	1321.2	1323.1
50°	1394.3	1419.3	1411.6	1407.8	1411.6
52.5°	1484.7	1515.5	1511.6	1507.8	1513.5
55°	1590.5	1619.3	1615.5	1619.3	1621.2
57.5°	1696.2	1728.9	1721.2	1730.9	1734.7
60°	1828.9	1848.2	1850.1	1852.0	1853.9
62.5°	1963.6	1971.3	1977.0	1982.8	1984.7
65°	2119.3	2121.3	2125.1	2119.3	2125.1
67.5°	2269.3	2255.9	2254.0	2259.7	2263.6
70°	2502.0	2502.0	2482.8	2509.7	2486.7
71°	2532.8	2569.4	2527.0	2586.7	2523.2
72.5°	2382.8	2450.1	2402.0	2455.9	2392.4
75°	1657.8	1813.6	1811.6	1888.6	1827.0
77.5°	459.6	430.8	459.6	396.2	378.9
80°	125.0	113.5	123.1	103.9	117.3
82.5°	82.7	71.2	69.2	55.8	59.6
85°	48.1	36.5	36.5	28.8	30.8
87.5°	7.7	1.9	7.7	3.8	5.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0
97.5°	4.5	4.2	4.0	4.0	4.0
100°	26.5	26.2	26.0	25.5	25.0
102.5°	48.5	48.8	49.0	48.5	48.0
105°	70.0	70.5	71.0	70.0	69.0
107.5°	91.5	91.8	92.0	91.5	91.0



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**CANDELA DISTRIBUTION (continued):**

	80°	82.5°	85°	87.5°	90°
110°	113.5	113.8	114.0	113.5	113.0
112.5°	136.0	136.5	137.0	136.0	135.0
115°	159.0	159.5	160.0	159.5	159.0
117.5°	181.0	181.5	182.0	181.0	180.0
120°	205.0	205.5	206.0	205.0	204.0
122.5°	231.0	232.0	233.0	232.5	232.0
125°	255.5	256.2	257.0	256.5	256.0
127.5°	279.5	280.2	281.0	279.5	278.0
130°	303.5	304.2	305.0	304.0	303.0
132.5°	327.5	328.2	329.0	328.0	327.0
135°	350.0	350.5	351.0	350.5	350.0
137.5°	372.0	373.0	374.0	373.0	372.0
140°	394.0	395.0	396.0	395.0	394.0
142.5°	414.5	415.2	416.0	415.5	415.0
145°	435.5	436.2	437.0	436.0	435.0
147.5°	454.5	455.2	456.0	454.5	453.0
150°	471.0	472.0	473.0	471.5	470.0
152.5°	487.5	488.2	489.0	487.5	486.0
155°	505.5	506.2	507.0	506.0	505.0
157.5°	520.5	521.8	523.0	521.5	520.0
160°	531.5	532.2	533.0	532.0	531.0
162.5°	539.0	539.5	540.0	538.5	537.0
165°	549.0	549.5	550.0	549.0	548.0
167.5°	561.0	562.0	563.0	562.0	561.0
170°	568.5	569.8	571.0	570.0	569.0
172.5°	569.5	570.2	571.0	569.5	568.0
175°	569.5	570.2	571.0	569.5	568.0
177.5°	575.5	576.2	577.0	575.5	574.0
180°	576.0	576.0	576.0	576.0	576.0

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