

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: P228721

Luminaire Tested: **ISS-AF-1200-LED-E1-RW-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228721
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-8030-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, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6782.2 lumens
Efficiency: N/A
Efficacy: 82.0 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

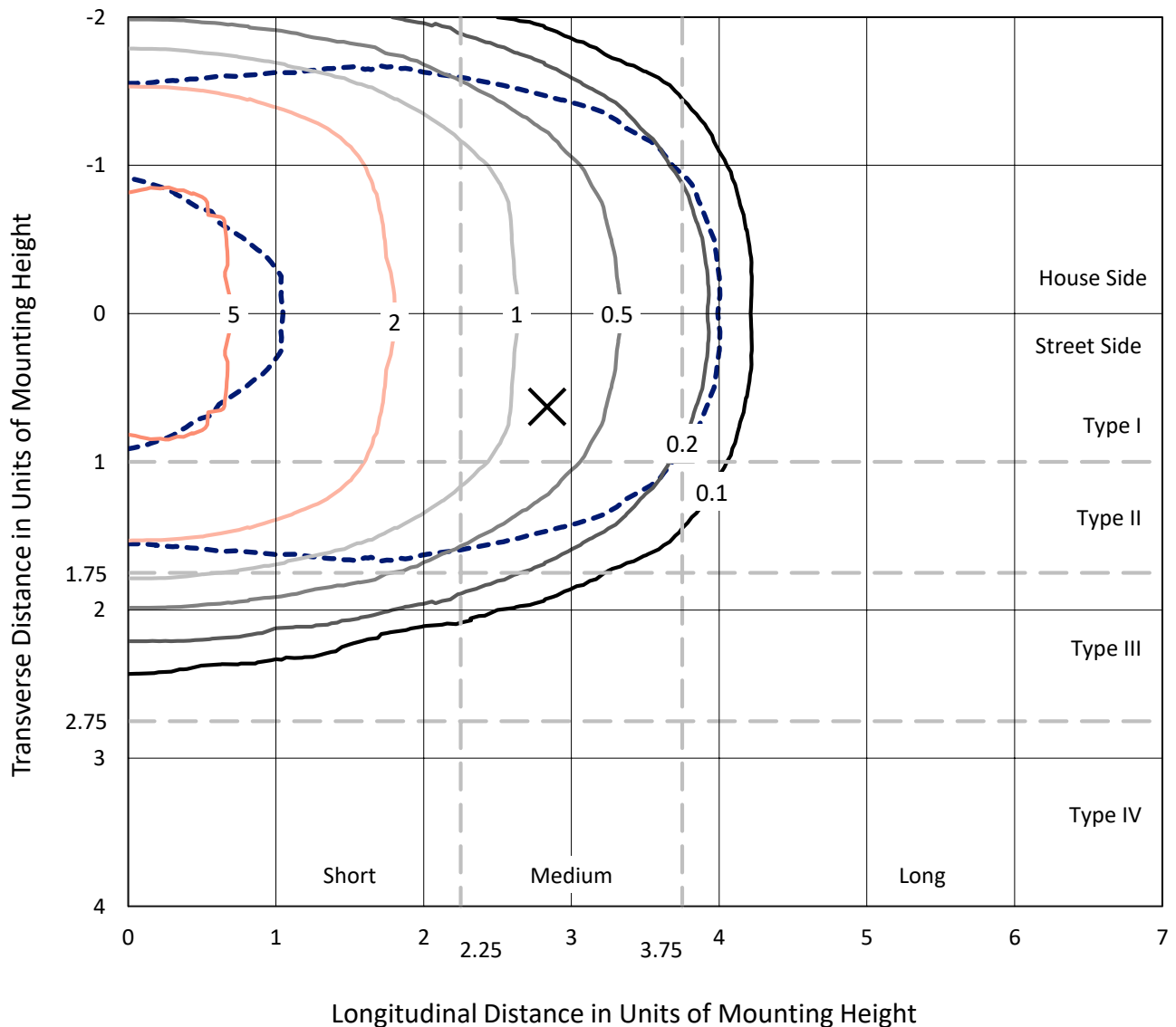


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Iso-Footcandle Lines of Horizontal Illumination

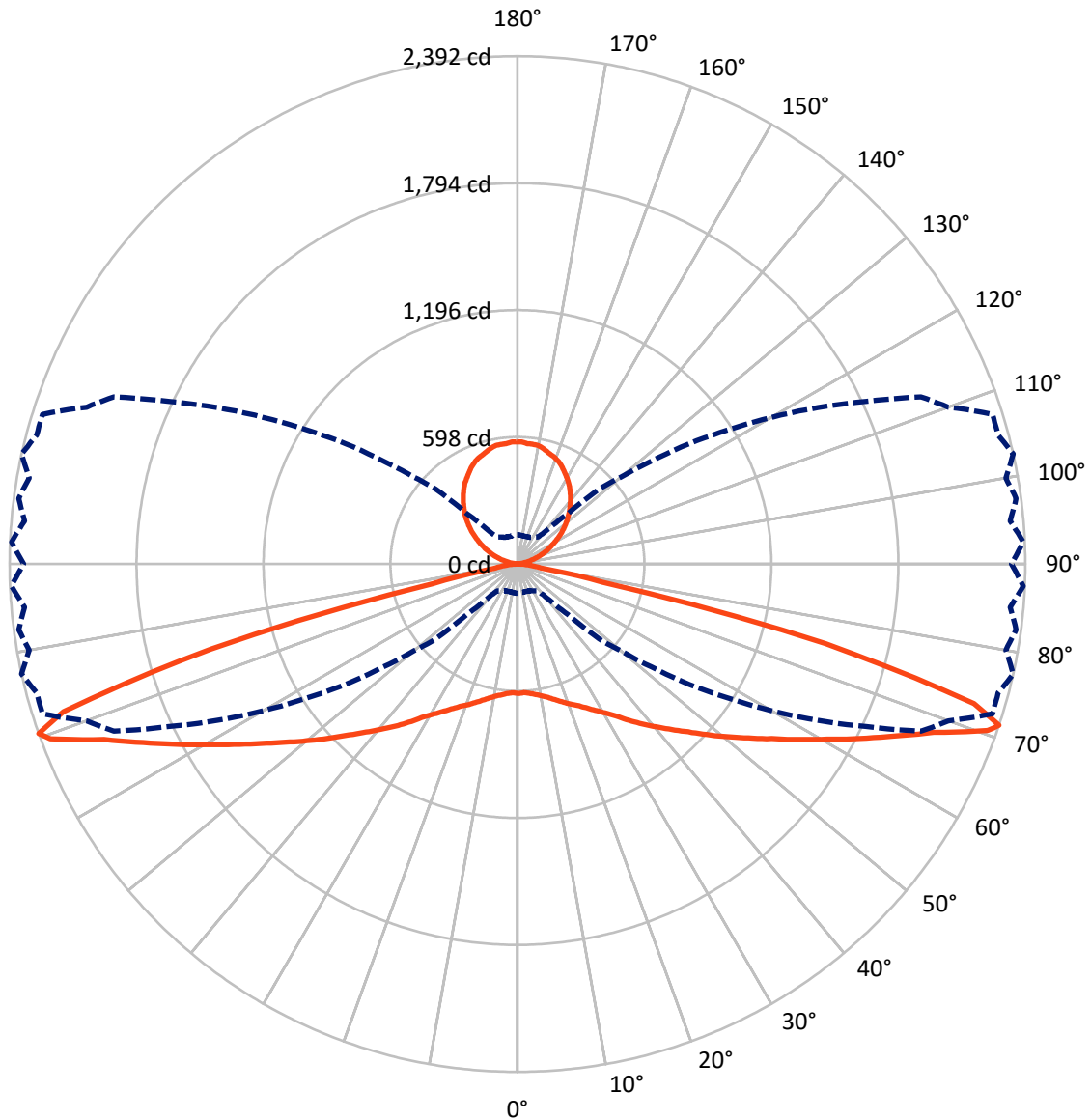
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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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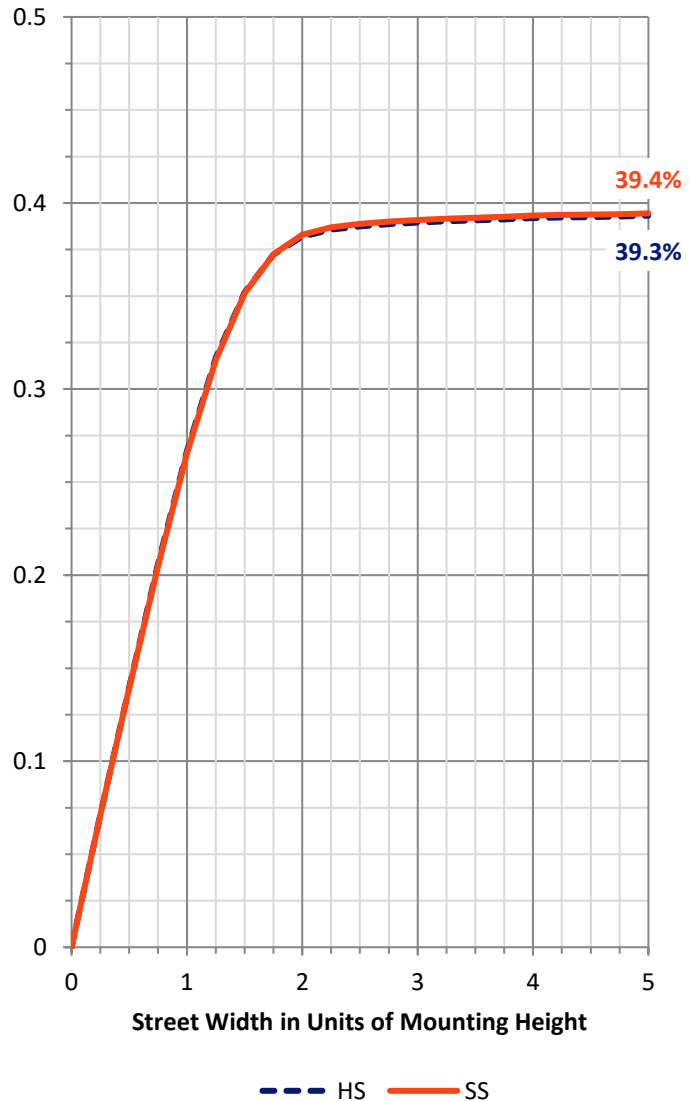
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2678.0	713.1	3391.1
	% Fixture	39.5	10.5	50.0
Street Side	Lumens	2678.0	713.1	3391.1
	% Fixture	39.5	10.5	50.0
Total	Lumens	5356.0	1426.2	6782.2
	% Fixture	79.0	21.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	0.9
10°-20°	184.1	2.7
20°-30°	344.5	5.1
30°-40°	599.7	8.8
40°-50°	978.5	14.4
50°-60°	1350.3	19.9
60°-70°	1280.9	18.9
70°-80°	527.2	7.8
80°-90°	31.9	0.5
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.3
120°-130°	223.9	3.3
130°-140°	265.6	3.9
140°-150°	269.3	4.0
150°-160°	231.1	3.4
160°-170°	155.1	2.3
170°-180°	54.3	0.8
0°-90°	5356.0	79.0
0°-180°	6782.2	100.0



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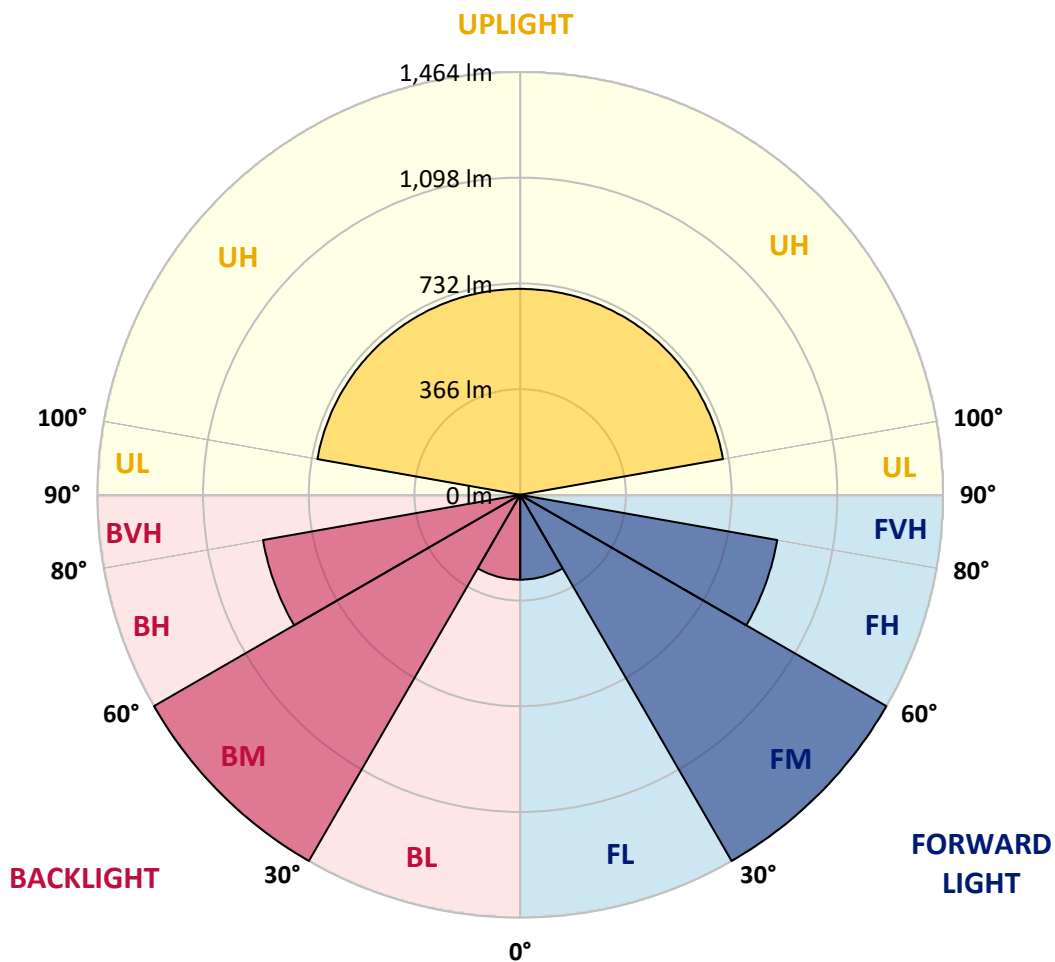
CATALOG NUMBER: ISS-AF-1200-LED-E1-RW-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.8	4.3			
FM	(30°-60°)	1464.2	21.6			
FH	(60°-80°)	904.1	13.3			G1/1800
FVH	(80°-90°)	15.9	0.2			G1/100
BL	(0°-30°)	293.8	4.3	B1/500		
BM	(30°-60°)	1464.2	21.6	B2/2500		
BH	(60°-30°)	904.1	13.3	B2/1000		G2/1000
BVH	(80°-90°)	15.9	0.2			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	10.5		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°	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9
2.5°	608.1	606.3	608.1	608.1	609.9	609.9	609.9	609.9	608.1	611.6	611.6
5°	608.1	608.1	609.9	609.9	613.4	617.0	611.6	613.4	615.2	613.4	617.0
7.5°	608.1	608.1	608.1	611.6	617.0	620.5	617.0	618.7	622.3	622.3	625.8
10°	602.8	601.0	604.6	611.6	620.5	625.8	624.1	631.2	629.4	631.2	634.7
12.5°	593.9	593.9	601.0	611.6	627.6	631.2	632.9	636.5	641.8	640.0	645.3
15°	595.7	597.5	604.6	618.7	638.2	641.8	643.6	643.6	652.4	648.9	659.5
17.5°	608.1	609.9	617.0	631.2	654.2	654.2	656.0	659.5	671.9	664.8	679.0
20°	627.6	629.4	636.5	652.4	673.7	671.9	675.5	679.0	695.0	687.9	702.1
22.5°	650.7	654.2	663.1	680.8	703.8	693.2	700.3	707.4	723.3	710.9	730.4
25°	682.6	687.9	696.7	716.2	741.1	728.7	735.8	741.1	758.8	741.1	760.6
27.5°	728.7	732.2	739.3	760.6	781.8	773.0	776.5	780.1	801.3	781.8	803.1
30°	783.6	788.9	796.0	815.5	836.8	822.6	829.7	833.3	851.0	831.5	849.2
32.5°	852.8	858.1	866.9	884.7	902.4	881.1	882.9	888.2	905.9	886.4	905.9
35°	934.3	937.9	950.3	971.5	984.0	950.3	952.0	952.0	975.1	948.5	969.8
37.5°	1019.4	1023.0	1037.1	1058.4	1072.6	1035.4	1035.4	1037.1	1058.4	1028.3	1047.8
40°	1108.1	1118.7	1134.7	1155.9	1166.6	1124.0	1127.6	1125.8	1150.6	1115.2	1134.7
42.5°	1196.7	1205.6	1228.6	1253.4	1265.8	1223.3	1225.1	1219.8	1244.6	1207.3	1223.3
45°	1272.9	1280.0	1308.4	1343.9	1363.4	1319.0	1319.0	1319.0	1343.9	1297.8	1317.3
47.5°	1335.0	1340.3	1370.4	1421.9	1453.8	1409.5	1413.0	1405.9	1443.1	1386.4	1413.0
50°	1379.3	1381.1	1420.1	1478.6	1533.6	1492.8	1498.1	1501.6	1537.1	1487.5	1510.5
52.5°	1393.5	1397.0	1441.4	1512.3	1592.1	1565.5	1585.0	1592.1	1624.0	1570.8	1602.7
55°	1343.9	1352.7	1420.1	1524.7	1632.8	1624.0	1647.0	1661.2	1702.0	1657.7	1691.3
57.5°	1177.2	1187.8	1281.8	1453.8	1641.7	1655.9	1687.8	1710.8	1769.3	1742.8	1780.0
60°	939.6	948.5	1044.2	1251.7	1530.0	1616.9	1689.6	1755.2	1815.4	1820.8	1868.6
62.5°	645.3	657.7	749.9	948.5	1287.1	1402.4	1507.0	1615.1	1716.2	1838.5	1900.5
65°	315.6	322.7	400.7	592.1	945.0	1092.1	1214.4	1366.9	1460.9	1636.4	1737.4
67.5°	173.7	173.7	186.2	246.4	505.3	650.7	781.8	973.3	1069.1	1285.3	1414.8
70°	145.4	145.4	141.8	150.7	191.5	226.9	294.3	404.2	537.2	755.3	872.3
71°	138.3	136.5	134.7	138.3	154.2	161.3	189.7	248.2	336.8	521.2	636.5
72.5°	129.4	125.9	120.6	122.3	131.2	131.2	136.5	145.4	179.1	244.7	328.0
75°	111.7	108.1	102.8	102.8	104.6	106.4	108.1	111.7	113.5	117.0	131.2
77.5°	92.2	88.6	83.3	83.3	81.6	83.3	86.9	88.6	85.1	92.2	94.0
80°	70.9	65.6	63.8	63.8	62.1	60.3	60.3	60.3	62.1	65.6	67.4
82.5°	44.3	40.8	42.5	40.8	39.0	39.0	39.0	39.0	40.8	40.8	44.3
85°	21.3	21.3	23.0	21.3	17.7	17.7	16.0	14.2	16.0	14.2	17.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9	609.9
2.5°	606.3	609.9	608.1	609.9	606.3	609.9	604.6	609.9	608.1	609.9	606.3
5°	611.6	617.0	611.6	618.7	611.6	618.7	611.6	618.7	613.4	618.7	611.6
7.5°	617.0	627.6	620.5	629.4	620.5	631.2	620.5	631.2	624.1	632.9	620.5
10°	627.6	640.0	629.4	640.0	629.4	641.8	629.4	643.6	632.9	647.1	631.2
12.5°	636.5	650.7	640.0	654.2	638.2	657.7	641.8	663.1	645.3	666.6	645.3
15°	648.9	666.6	656.0	671.9	656.0	677.2	657.7	682.6	663.1	686.1	663.1
17.5°	666.6	686.1	671.9	691.4	673.7	696.7	675.5	702.1	682.6	705.6	682.6
20°	691.4	707.4	693.2	714.5	695.0	716.2	698.5	719.8	703.8	725.1	703.8
22.5°	719.8	734.0	723.3	735.8	718.0	735.8	718.0	735.8	723.3	741.1	723.3
25°	751.7	762.3	749.9	762.3	746.4	760.6	744.6	758.8	746.4	762.3	749.9
27.5°	794.3	799.6	785.4	796.0	776.5	790.7	773.0	787.2	774.8	788.9	780.1
30°	840.4	845.7	831.5	838.6	817.3	826.2	806.7	819.1	808.4	819.1	813.8
32.5°	891.8	898.9	882.9	886.4	868.7	870.5	854.5	859.9	851.0	854.5	852.8
35°	950.3	959.1	941.4	946.7	927.2	927.2	913.0	911.3	907.7	904.2	904.2
37.5°	1024.7	1028.3	1014.1	1014.1	991.0	991.0	973.3	973.3	966.2	959.1	955.6
40°	1106.3	1108.1	1085.0	1083.2	1060.2	1060.2	1040.7	1035.4	1023.0	1014.1	1008.8
42.5°	1193.2	1191.4	1157.7	1161.2	1127.6	1129.3	1104.5	1099.2	1086.8	1076.1	1065.5
45°	1281.8	1274.7	1241.0	1239.3	1200.2	1202.0	1171.9	1168.3	1150.6	1140.0	1127.6
47.5°	1372.2	1368.7	1331.4	1322.6	1281.8	1280.0	1241.0	1241.0	1223.3	1212.7	1200.2
50°	1466.2	1464.4	1421.9	1416.5	1374.0	1366.9	1320.8	1320.8	1299.5	1296.0	1278.3
52.5°	1569.0	1561.9	1515.8	1514.1	1473.3	1468.0	1418.3	1414.8	1382.9	1381.1	1361.6
55°	1670.1	1657.7	1627.5	1613.3	1572.6	1570.8	1526.5	1517.6	1476.8	1476.8	1452.0
57.5°	1762.3	1751.6	1726.8	1714.4	1675.4	1670.1	1622.2	1622.2	1586.7	1585.0	1558.4
60°	1858.0	1861.5	1834.9	1829.6	1792.4	1790.6	1742.8	1742.8	1707.3	1705.5	1675.4
62.5°	1939.5	1975.0	1964.4	1967.9	1936.0	1930.7	1882.8	1879.3	1838.5	1833.2	1808.4
65°	1859.8	1983.9	2063.6	2116.8	2113.3	2111.5	2065.4	2058.3	2006.9	1992.7	1952.0
67.5°	1561.9	1723.3	1868.6	2028.2	2145.2	2233.8	2260.4	2249.8	2205.5	2164.7	2115.1
70°	1046.0	1232.2	1416.5	1615.1	1815.4	2010.5	2210.8	2297.7	2389.9	2357.9	2349.1
71°	796.0	987.5	1171.9	1381.1	1593.8	1810.1	2056.6	2159.4	2345.5	2343.8	2391.6
72.5°	448.5	618.7	815.5	998.1	1198.5	1421.9	1675.4	1788.8	2056.6	2109.7	2248.0
75°	143.6	196.8	260.6	411.3	535.4	739.3	927.2	1040.7	1218.0	1306.6	1499.9
77.5°	95.7	106.4	109.9	127.6	143.6	203.9	276.6	338.6	372.3	390.0	409.5
80°	69.1	74.5	78.0	86.9	88.6	99.3	99.3	109.9	108.1	115.2	109.9
82.5°	44.3	49.6	51.4	55.0	56.7	63.8	67.4	74.5	74.5	78.0	76.2
85°	21.3	24.8	24.8	28.4	28.4	33.7	33.7	39.0	39.0	44.3	42.5
87.5°	1.8	1.8	1.8	3.5	3.5	3.5	5.3	7.1	7.1	7.1	7.1
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°	609.9	609.9	609.9	609.9	609.9
2.5°	611.6	609.9	611.6	608.1	611.6
5°	620.5	613.4	622.3	613.4	622.3
7.5°	634.7	625.8	636.5	622.3	634.7
10°	647.1	634.7	648.9	634.7	647.1
12.5°	668.4	648.9	671.9	648.9	671.9
15°	689.7	666.6	695.0	670.2	693.2
17.5°	709.2	687.9	714.5	689.7	712.7
20°	726.9	707.4	730.4	705.6	730.4
22.5°	744.6	732.2	749.9	732.2	749.9
25°	767.7	758.8	771.2	758.8	771.2
27.5°	794.3	790.7	797.8	788.9	799.6
30°	824.4	826.2	827.9	826.2	829.7
32.5°	861.6	870.5	866.9	866.9	866.9
35°	913.0	929.0	918.4	921.9	920.1
37.5°	960.9	984.0	969.8	975.1	971.5
40°	1014.1	1030.1	1026.5	1026.5	1023.0
42.5°	1072.6	1092.1	1086.8	1088.6	1085.0
45°	1136.4	1154.2	1147.1	1145.3	1147.1
47.5°	1209.1	1228.6	1219.8	1218.0	1219.8
50°	1285.3	1308.4	1301.3	1297.8	1301.3
52.5°	1368.7	1397.0	1393.5	1389.9	1395.3
55°	1466.2	1492.8	1489.2	1492.8	1494.5
57.5°	1563.7	1593.8	1586.7	1595.6	1599.1
60°	1686.0	1703.8	1705.5	1707.3	1709.1
62.5°	1810.1	1817.2	1822.5	1827.9	1829.6
65°	1953.7	1955.5	1959.0	1953.7	1959.0
67.5°	2092.0	2079.6	2077.8	2083.1	2086.7
70°	2306.5	2306.5	2288.8	2313.6	2292.4
71°	2334.9	2368.6	2329.6	2384.5	2326.0
72.5°	2196.6	2258.7	2214.3	2264.0	2205.5
75°	1528.2	1671.8	1670.1	1741.0	1684.2
77.5°	423.7	397.1	423.7	365.2	349.3
80°	115.2	104.6	113.5	95.7	108.1
82.5°	76.2	65.6	63.8	51.4	55.0
85°	44.3	33.7	33.7	26.6	28.4
87.5°	7.1	1.8	7.1	3.5	5.3
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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