

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: INVUE

Report Number: P677240

Luminaire Tested: **CCW-SA-1C-722-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677240
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-722-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

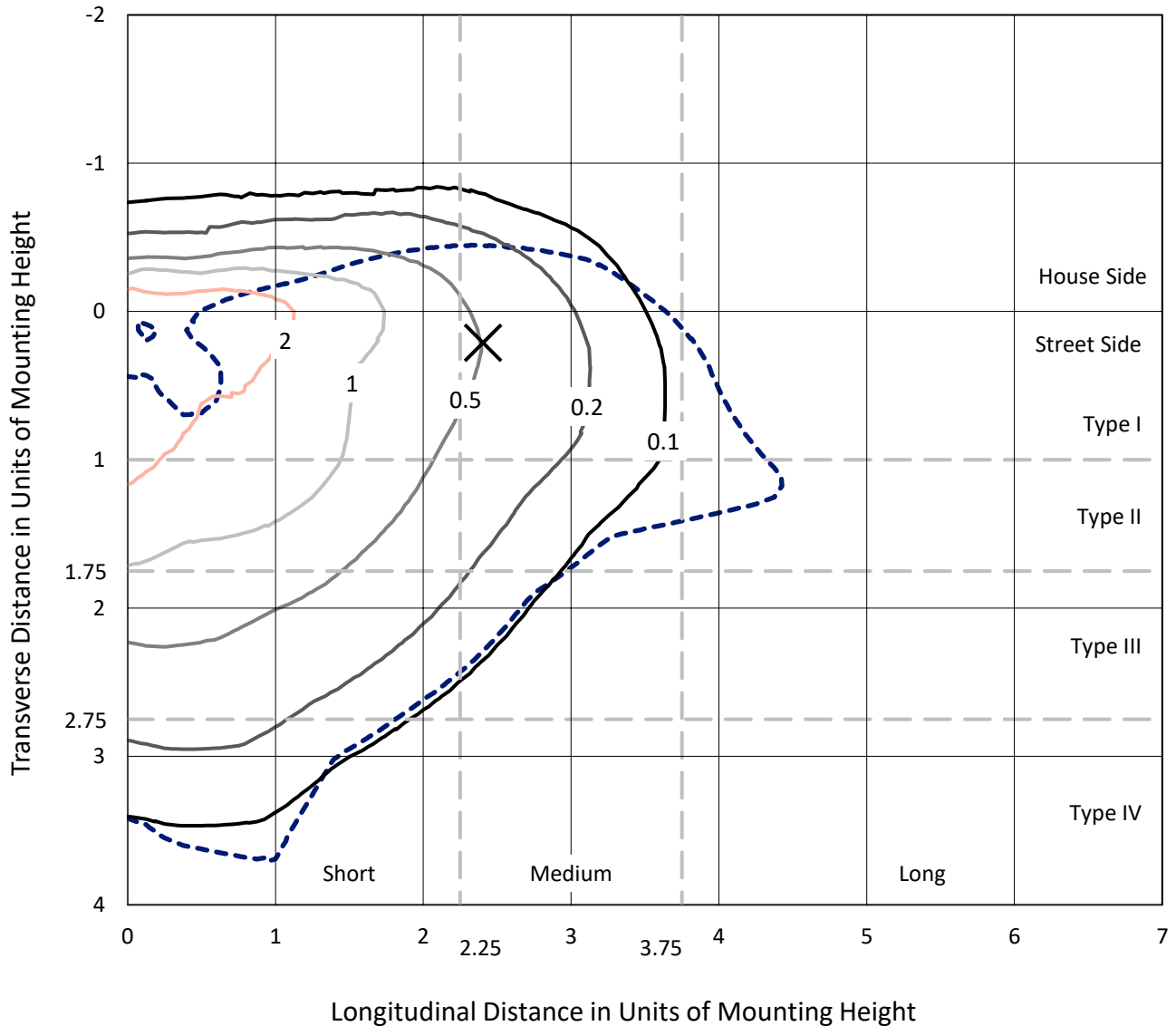
Lumens per Lamp: N/A
Luminaire Lumens: 2416.3 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
Input Voltage (V): 120
Input Current (A_{in}): 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

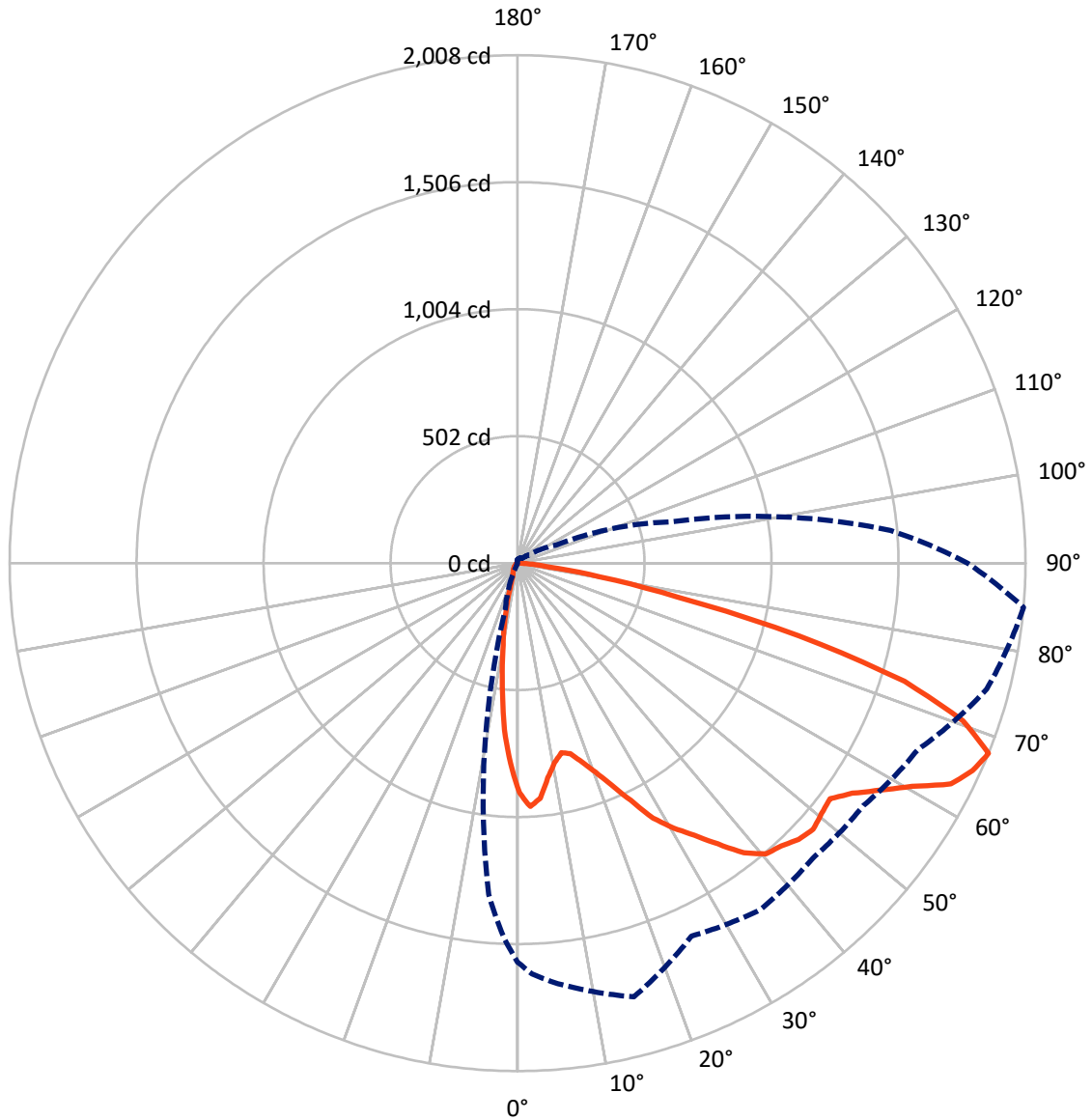
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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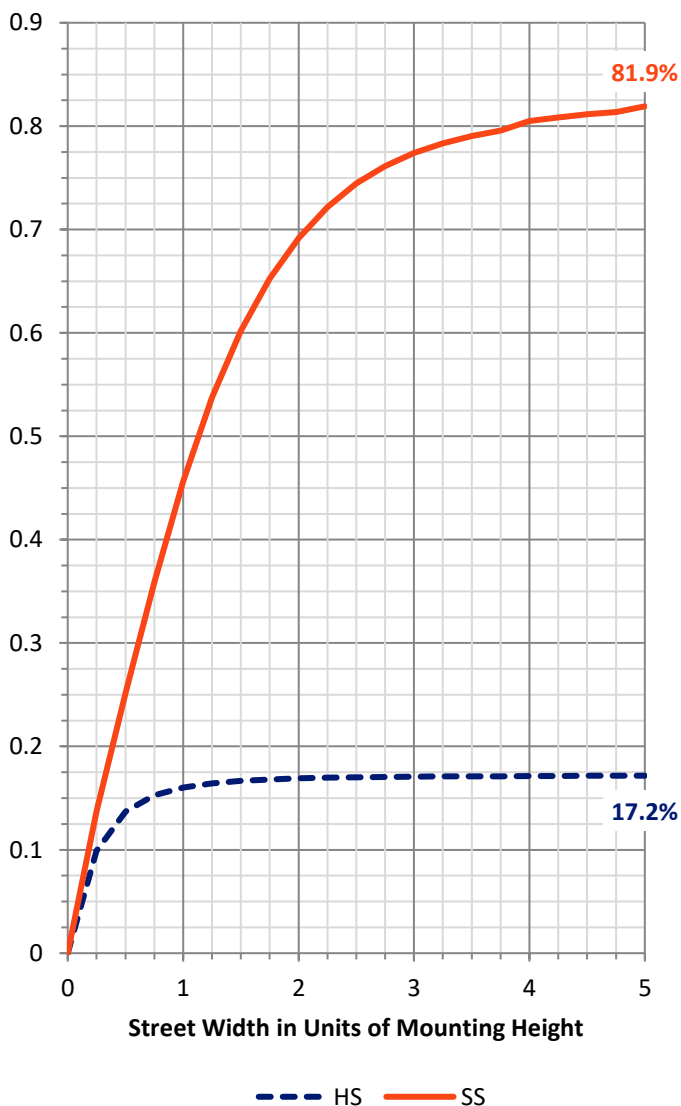
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.5	0.0	419.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1996.8	0.0	1996.8
	% Fixture	82.6	0.0	82.6
Total	Lumens	2416.3	0.0	2416.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	2.9
10°-20°	135.3	5.6
20°-30°	187.3	7.8
30°-40°	264.7	11.0
40°-50°	360.4	14.9
50°-60°	477.3	19.8
60°-70°	554.2	22.9
70°-80°	313.8	13.0
80°-90°	54.2	2.2
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°	2416.3	100.0
0°-180°	2416.3	100.0

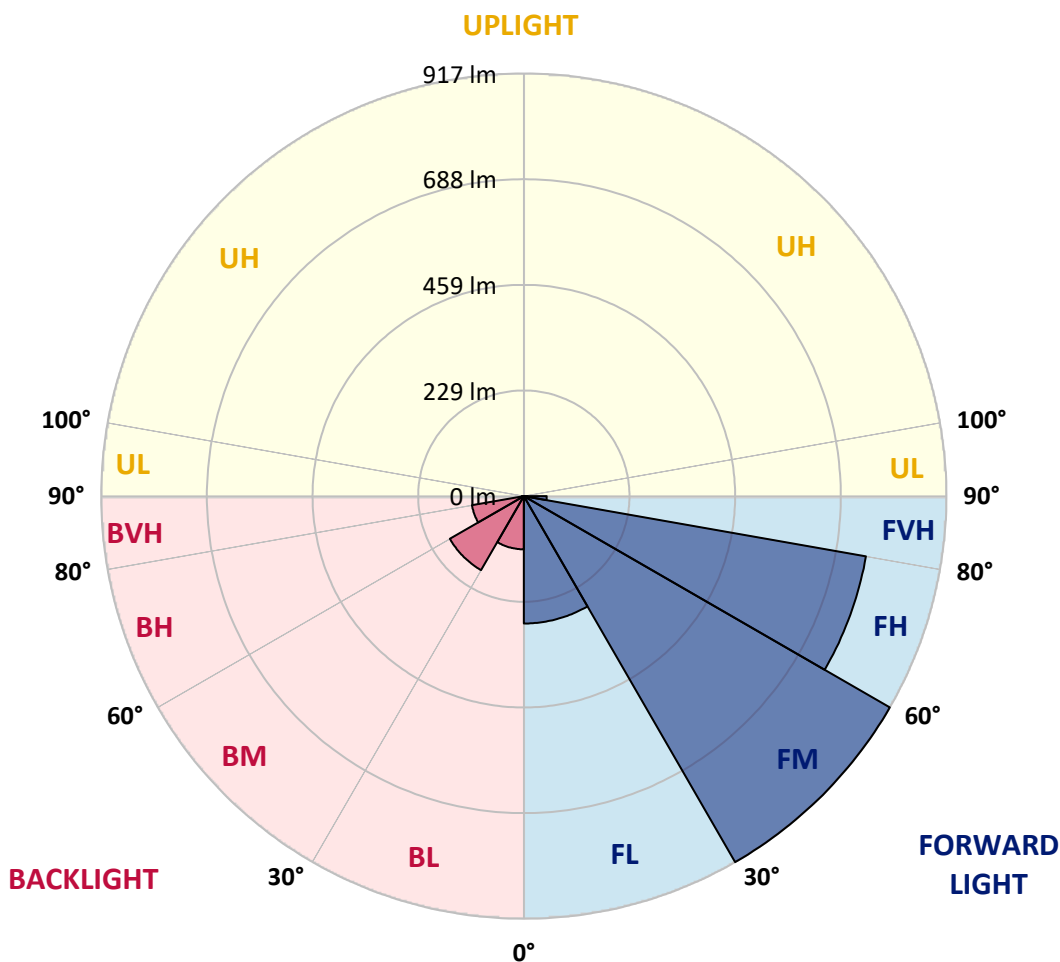


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.3	11.4			
FM (30°-60°)	917.0	38.0			
FH (60°-80°)	753.8	31.2			G1/1800
FVH (80°-90°)	49.7	2.1			G1/100
BL (0°-30°)	115.3	4.8	B1/500		
BM (30°-60°)	185.4	7.7	B0/220		
BH (60°-80°)	114.3	4.7	B1/500		G1/500
BVH (80°-90°)	4.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	944.0	964.0	964.7	973.7	982.7	982.7	1004.0	998.9	980.1	976.9	963.4
5°	951.1	958.2	963.4	1009.2	1047.9	1044.0	1055.6	1047.9	1011.8	965.3	933.7
7.5°	889.8	897.5	918.2	996.3	1048.5	1066.0	1087.9	1039.5	1001.4	917.5	856.9
10°	808.5	823.3	861.4	950.5	1015.0	1070.5	1070.5	1031.8	958.2	876.3	802.0
12.5°	763.3	793.0	813.7	904.0	987.9	1026.0	1024.7	1004.0	956.3	853.0	769.1
15°	771.1	779.5	823.3	893.7	949.2	947.2	970.5	964.0	930.5	873.7	781.4
17.5°	806.6	819.5	857.5	893.7	920.1	912.4	911.7	942.7	944.6	908.5	827.2
20°	864.6	902.7	920.8	931.7	899.5	866.6	862.7	905.9	939.5	953.0	882.1
22.5°	957.6	982.7	1019.5	963.4	879.5	838.2	830.4	878.2	945.9	1005.9	953.0
25°	1048.5	1067.9	1103.4	1031.1	902.1	832.4	818.8	860.1	970.5	1079.5	1038.9
27.5°	1144.7	1161.5	1165.3	1080.8	914.3	820.8	804.6	860.1	991.1	1118.2	1141.5
30°	1203.4	1223.4	1227.3	1124.7	934.3	830.4	822.7	864.0	1005.3	1151.1	1215.0
32.5°	1269.2	1274.4	1271.1	1132.4	956.3	858.8	826.6	889.8	1021.4	1190.5	1282.1
35°	1347.9	1357.0	1324.1	1167.9	1005.3	876.9	865.3	921.4	1049.2	1208.6	1363.4
37.5°	1407.9	1436.3	1362.1	1181.5	1015.0	915.0	916.9	987.2	1068.5	1230.5	1453.1
40°	1520.9	1473.1	1426.7	1227.9	1051.8	979.5	969.2	1055.0	1133.7	1244.7	1511.8
42.5°	1582.8	1557.6	1451.8	1232.4	1108.5	1068.5	1071.1	1131.8	1167.9	1284.7	1528.0
45°	1598.3	1571.8	1486.0	1235.7	1164.7	1173.7	1218.2	1229.9	1218.2	1311.2	1558.3
47.5°	1637.7	1580.2	1482.1	1278.9	1255.7	1290.5	1347.3	1372.5	1286.6	1301.5	1572.5
50°	1629.9	1597.0	1473.8	1297.0	1366.6	1458.9	1497.0	1486.7	1362.8	1281.5	1557.0
52.5°	1597.6	1562.2	1499.6	1346.0	1470.5	1582.2	1635.1	1609.3	1430.5	1326.6	1546.7
55°	1644.7	1617.6	1533.1	1412.5	1548.6	1690.6	1728.0	1708.6	1513.8	1368.6	1605.4
57.5°	1695.7	1689.9	1624.1	1490.5	1640.9	1802.2	1802.2	1778.3	1586.0	1429.2	1692.5
60°	1769.3	1782.2	1691.2	1542.2	1672.5	1795.7	1889.3	1861.6	1658.9	1535.7	1791.2
62.5°	1745.4	1786.7	1777.7	1653.1	1708.6	1827.4	1878.3	1899.0	1749.3	1665.4	1922.9
65°	1668.6	1712.5	1777.0	1726.1	1681.5	1750.6	1776.4	1839.0	1794.4	1787.3	1977.1
67.5°	1577.0	1624.7	1664.8	1775.1	1626.7	1672.5	1649.9	1669.9	1745.4	1920.9	2008.0
70°	1377.0	1422.8	1486.0	1666.0	1481.5	1440.2	1434.4	1424.7	1542.2	1873.2	1867.4
72.5°	1132.4	1153.7	1258.2	1354.4	1096.3	1088.5	1097.6	1086.6	1222.8	1695.7	1599.6
75°	847.9	869.2	928.5	1040.1	746.6	702.0	753.7	804.6	933.7	1316.3	1149.2
77.5°	637.5	664.6	702.0	778.2	547.8	478.1	485.2	533.6	674.9	1054.3	644.0
80°	413.6	410.4	482.6	535.6	412.3	425.2	407.2	442.6	489.1	564.0	329.1
82.5°	238.7	242.0	272.3	307.1	287.1	328.4	236.8	395.5	349.1	229.7	122.6
85°	134.2	140.0	167.8	212.9	180.0	120.7	98.7	196.2	219.4	94.2	59.4
87.5°	13.6	11.6	22.6	80.7	49.0	20.0	29.7	47.1	52.9	35.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	944.0	944.0	927.9	900.8	889.8	870.4	844.0	852.4	843.3	810.4	802.0
5°	905.3	874.3	840.8	799.5	775.6	726.6	711.1	683.3	687.8	660.1	661.4
7.5°	824.6	800.1	743.3	689.1	642.0	599.4	539.4	516.8	494.9	483.9	496.8
10°	777.5	731.7	654.3	583.3	520.7	482.6	442.6	411.7	383.3	362.0	357.5
12.5°	743.3	702.7	609.1	522.7	473.6	442.6	405.9	363.3	335.5	298.8	287.8
15°	733.0	683.3	584.6	498.8	451.0	400.1	358.1	316.2	280.0	241.3	227.8
17.5°	768.5	711.1	584.0	479.4	412.3	357.5	299.4	252.3	215.5	180.0	171.6
20°	828.5	740.7	602.7	467.8	375.5	302.0	236.2	189.1	147.8	124.5	118.7
22.5°	896.9	791.1	604.6	436.8	338.8	246.5	172.3	124.5	101.3	90.3	87.1
25°	980.8	871.7	627.8	411.7	295.5	187.1	122.6	95.5	81.9	75.5	74.2
27.5°	1049.8	927.9	653.0	385.2	252.9	138.7	96.1	78.1	71.0	64.5	63.9
30°	1121.4	992.4	660.1	369.1	216.2	114.2	82.6	69.0	61.3	58.1	57.4
32.5°	1184.0	1062.7	682.7	342.6	181.3	100.7	74.8	61.9	56.8	51.6	51.0
35°	1264.7	1103.4	693.6	328.4	168.4	91.0	68.4	56.8	49.0	45.8	44.5
37.5°	1351.2	1142.7	700.7	317.5	157.4	85.2	64.5	53.6	46.5	41.9	40.7
40°	1431.8	1198.2	690.4	303.9	149.1	78.1	61.9	49.7	43.2	38.7	36.8
42.5°	1493.8	1252.4	687.2	291.0	140.0	75.5	58.7	47.7	40.7	35.5	34.8
45°	1528.6	1289.2	664.6	280.7	132.9	76.8	57.4	45.2	38.7	34.2	31.6
47.5°	1520.2	1317.6	670.4	277.5	123.2	71.6	56.8	43.2	35.5	31.6	29.7
50°	1566.7	1375.0	660.7	267.1	116.1	64.5	61.9	43.2	34.8	30.3	28.4
52.5°	1574.4	1427.3	681.4	248.4	105.2	59.4	61.3	42.6	33.6	29.0	26.5
55°	1638.9	1488.0	721.4	238.1	96.1	51.6	56.1	41.3	30.3	26.5	25.2
57.5°	1726.7	1613.8	747.2	228.4	83.9	45.2	47.1	40.7	27.7	24.5	22.6
60°	1811.2	1664.1	749.1	211.0	72.3	40.7	36.8	40.7	25.8	21.9	20.0
62.5°	1874.5	1664.1	736.2	196.2	63.2	36.1	32.3	38.7	23.2	19.4	18.1
65°	1840.3	1619.6	702.7	183.9	57.4	31.6	27.7	29.7	20.6	16.8	15.5
67.5°	1779.0	1480.9	628.5	169.1	56.8	27.7	23.9	21.9	18.1	14.8	13.6
70°	1680.9	1293.7	523.3	152.3	55.5	25.2	21.3	18.7	16.1	12.9	11.6
72.5°	1354.4	1068.5	429.7	142.6	54.2	21.9	18.1	16.1	13.6	11.0	9.7
75°	938.2	682.7	331.0	122.0	52.9	20.0	16.8	14.2	11.6	9.0	8.4
77.5°	562.7	456.2	213.6	91.6	34.8	16.1	14.2	11.0	9.7	7.7	7.1
80°	263.3	215.5	86.5	35.5	16.8	11.6	9.7	8.4	7.7	6.5	5.8
82.5°	103.2	91.0	41.9	20.6	13.6	9.0	7.7	7.1	6.5	5.2	4.5
85°	55.5	49.0	20.0	14.2	9.7	6.5	6.5	5.8	5.2	4.5	3.9
87.5°	12.3	9.0	8.4	8.4	7.1	5.2	5.2	4.5	3.9	3.2	2.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	797.5	807.2	791.7	801.4	787.9	798.2	799.5	789.8	792.4	805.3	811.1
5°	679.5	673.0	658.8	654.3	654.9	646.5	649.8	654.3	661.4	665.3	676.9
7.5°	489.7	504.6	503.9	514.9	515.6	514.3	505.2	485.9	492.3	487.2	493.6
10°	350.4	356.8	369.1	376.2	389.1	382.0	361.3	353.6	349.7	349.1	355.5
12.5°	280.0	264.6	263.3	265.8	272.3	263.9	253.6	244.6	249.1	258.1	265.2
15°	216.8	203.9	187.1	184.5	185.8	182.0	171.0	159.4	162.6	171.6	176.8
17.5°	166.5	151.6	140.0	132.3	129.7	116.1	100.0	90.3	87.8	87.1	91.6
20°	112.3	109.7	107.8	98.1	98.1	78.7	65.2	58.1	58.1	59.4	60.0
22.5°	83.9	80.7	81.3	79.4	74.2	58.7	51.6	49.7	49.7	51.0	51.0
25°	72.9	68.4	67.1	66.5	61.3	50.3	45.2	43.2	43.2	44.5	44.5
27.5°	61.9	60.7	58.7	56.1	51.6	43.2	40.0	38.1	38.7	39.4	38.7
30°	56.8	53.6	51.0	51.0	45.8	38.7	36.1	34.8	33.6	34.8	35.5
32.5°	50.3	48.4	47.1	45.2	39.4	34.2	31.6	30.3	29.7	29.7	30.3
35°	43.2	43.2	41.9	39.4	34.2	31.0	27.7	26.5	25.8	26.5	26.5
37.5°	38.7	36.8	37.4	34.8	30.3	27.1	23.9	22.6	22.6	21.9	22.6
40°	36.1	32.9	31.0	29.7	27.1	23.2	20.6	19.4	18.7	18.7	18.7
42.5°	32.3	29.7	25.8	25.2	24.5	20.0	16.8	16.1	15.5	14.8	14.8
45°	30.3	26.5	23.2	20.0	20.0	16.8	14.2	12.9	12.3	11.6	12.3
47.5°	27.7	23.9	20.0	16.8	16.1	13.6	11.0	9.7	9.0	9.0	9.0
50°	26.5	21.3	17.4	14.2	12.3	11.0	8.4	7.1	6.5	6.5	6.5
52.5°	24.5	20.0	15.5	12.3	9.7	8.4	6.5	5.2	4.5	4.5	4.5
55°	21.9	18.1	13.6	10.3	8.4	6.5	4.5	3.2	2.6	2.6	2.6
57.5°	20.6	16.1	11.6	9.0	6.5	4.5	2.6	1.9	1.9	1.3	1.9
60°	18.7	14.2	9.7	7.1	5.2	3.2	1.9	0.6	0.6	0.6	0.6
62.5°	16.1	12.3	8.4	5.8	3.9	1.9	0.6	0.0	0.0	0.0	0.0
65°	13.6	9.7	6.5	4.5	2.6	0.6	0.0	0.0	0.0	0.0	0.0
67.5°	11.6	8.4	5.2	3.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.3	7.1	3.9	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.4	5.8	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.1	4.5	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.8	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	819.5	815.6	835.0	866.6	882.7	914.3	922.1	942.1	936.9	944.0
5°	678.2	685.9	714.3	760.8	777.5	823.3	866.6	909.8	937.6	951.1
7.5°	503.3	529.1	564.0	606.5	649.8	709.8	783.3	833.7	860.8	889.8
10°	374.9	402.6	442.6	484.6	554.9	622.0	695.6	758.2	781.4	808.5
12.5°	294.9	338.1	384.6	429.7	471.7	535.6	626.5	717.5	742.7	763.3
15°	205.2	258.1	324.6	383.3	442.0	497.5	591.7	702.0	736.2	771.1
17.5°	113.6	155.5	231.6	314.2	400.7	485.9	603.3	730.4	782.0	806.6
20°	65.8	82.6	136.8	234.9	349.1	460.7	609.1	784.0	852.4	864.6
22.5°	54.2	60.0	77.4	147.1	285.8	444.6	638.8	858.8	928.5	957.6
25°	46.5	51.0	60.0	88.4	216.2	410.4	657.5	952.4	1016.9	1048.5
27.5°	41.3	45.8	52.9	65.2	147.1	363.3	688.5	1036.9	1101.4	1144.7
30°	36.1	40.0	47.1	55.5	101.9	310.4	714.9	1098.9	1189.8	1203.4
32.5°	32.3	35.5	40.7	47.7	75.5	235.5	736.2	1162.7	1239.5	1269.2
35°	27.7	31.6	34.8	40.7	57.4	177.4	723.3	1212.4	1312.4	1347.9
37.5°	24.5	27.1	30.3	34.2	48.4	138.7	696.9	1271.8	1375.0	1407.9
40°	20.6	22.6	26.5	30.3	43.9	107.1	666.5	1343.4	1462.8	1520.9
42.5°	17.4	19.4	21.9	28.4	36.1	79.4	605.2	1398.9	1533.8	1582.8
45°	13.6	16.1	20.0	28.4	29.0	58.7	542.0	1440.2	1573.8	1598.3
47.5°	10.3	12.9	19.4	24.5	23.2	40.7	467.2	1487.3	1615.1	1637.7
50°	7.7	10.3	21.9	21.3	19.4	31.0	420.1	1520.2	1617.6	1629.9
52.5°	5.2	7.7	18.1	16.1	16.1	27.1	407.2	1518.9	1624.1	1597.6
55°	3.9	5.8	10.3	11.6	14.2	23.9	395.5	1567.3	1626.0	1644.7
57.5°	2.6	4.5	7.1	9.0	12.3	20.6	371.7	1625.4	1686.0	1695.7
60°	1.3	3.2	5.2	7.1	10.3	18.1	338.1	1668.0	1759.0	1769.3
62.5°	0.6	1.9	3.9	5.8	8.4	14.2	303.3	1600.2	1727.3	1745.4
65°	0.0	1.3	2.6	3.9	5.2	10.3	246.5	1444.7	1602.2	1668.6
67.5°	0.0	0.0	1.3	2.6	3.2	7.7	185.8	1314.4	1486.7	1577.0
70°	0.0	0.0	0.6	0.6	1.9	5.8	118.7	1088.5	1327.3	1377.0
72.5°	0.0	0.0	0.0	0.0	0.6	3.9	69.0	808.5	1040.1	1132.4
75°	0.0	0.0	0.0	0.0	0.0	3.2	34.8	520.1	724.0	847.9
77.5°	0.0	0.0	0.0	0.0	0.0	2.6	18.7	335.5	533.6	637.5
80°	0.0	0.0	0.0	0.0	0.0	0.6	11.0	194.9	341.3	413.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	95.5	203.9	238.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	51.0	101.9	134.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	7.1	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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