

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: P677241

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677241
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-722-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

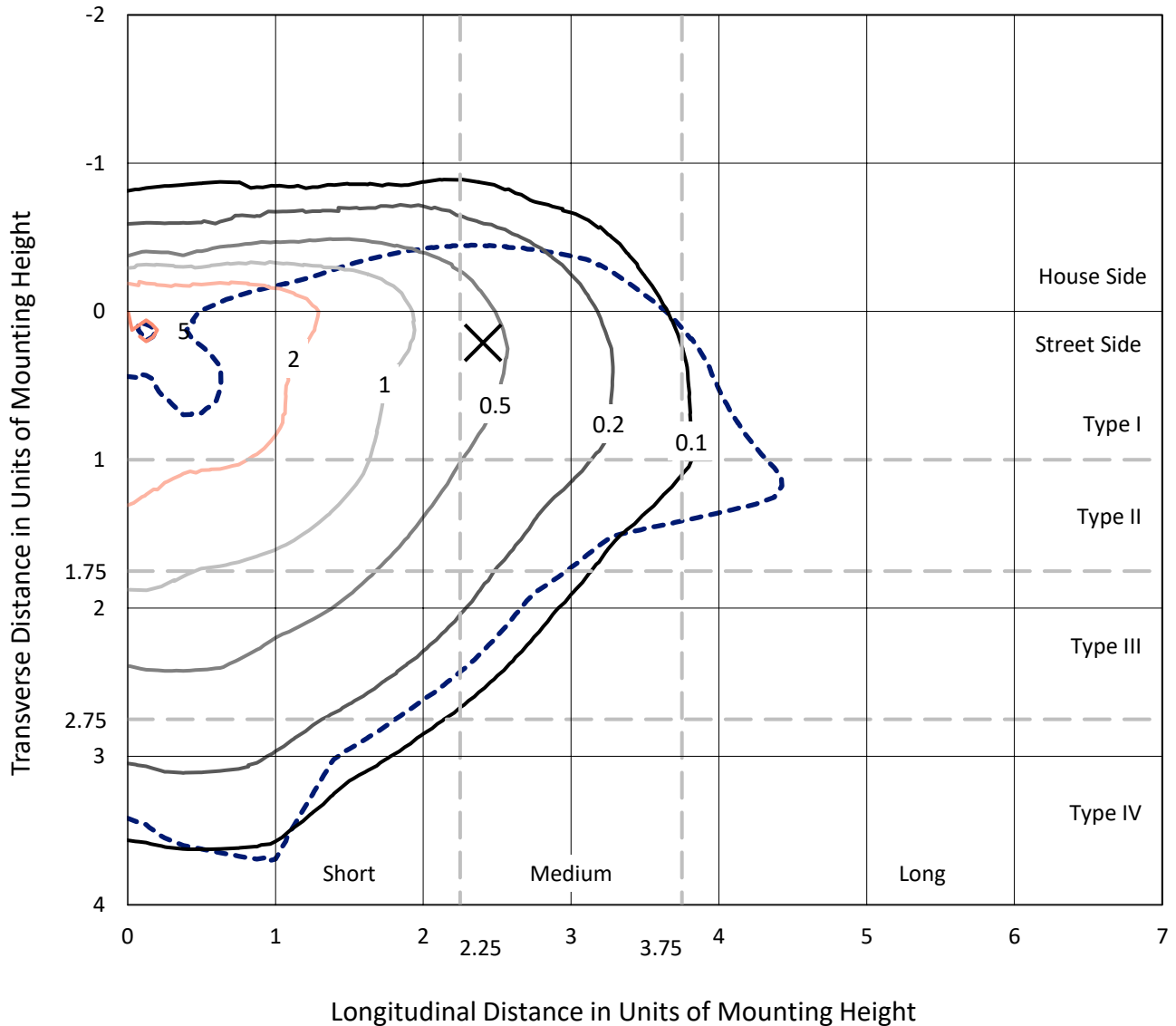
Lumens per Lamp: N/A
Luminaire Lumens: 2980.5 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

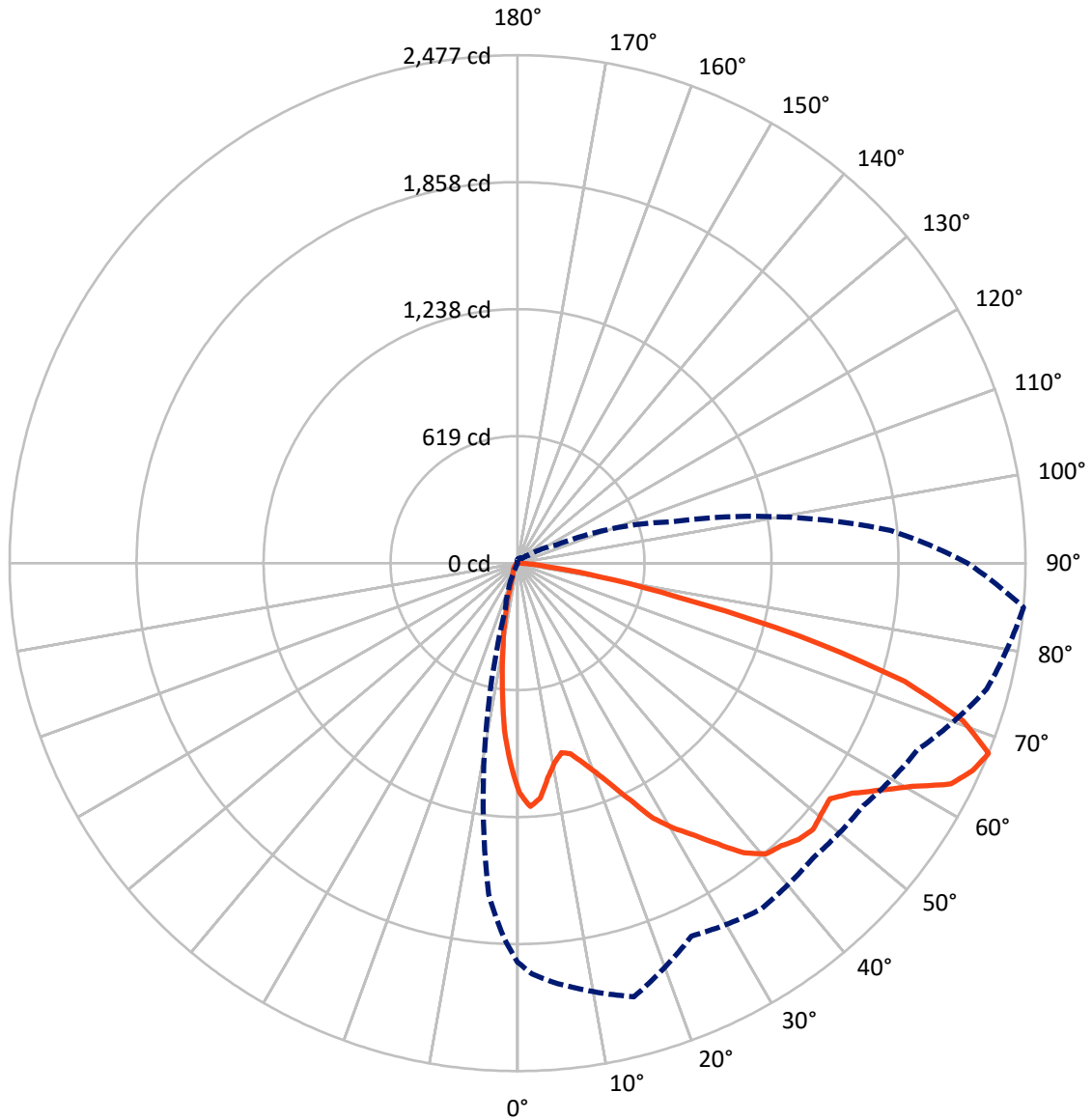
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 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	517.5	0.0	517.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2463.0	0.0	2463.0
	% Fixture	82.6	0.0	82.6
Total	Lumens	2980.5	0.0	2980.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	2.9
10°-20°	166.9	5.6
20°-30°	231.0	7.8
30°-40°	326.5	11.0
40°-50°	444.5	14.9
50°-60°	588.8	19.8
60°-70°	683.6	22.9
70°-80°	387.1	13.0
80°-90°	66.9	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°	2980.5	100.0
0°-180°	2980.5	100.0



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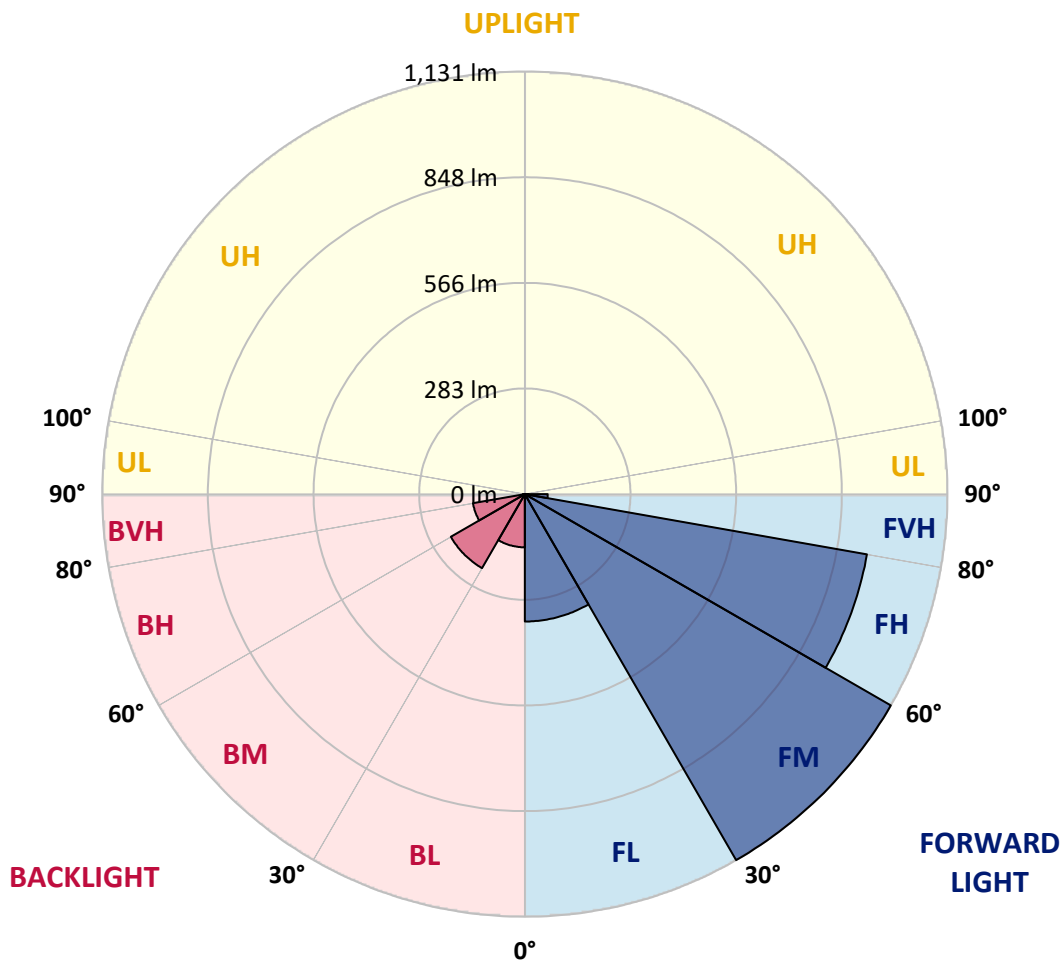
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.8	11.4			
FM (30°-60°)	1131.1	38.0			
FH (60°-80°)	929.8	31.2			G1/1800
FVH (80°-90°)	61.3	2.1			G1/100
BL (0°-30°)	142.3	4.8	B1/500		
BM (30°-60°)	228.7	7.7	B1/1000		
BH (60°-80°)	140.9	4.7	B1/500		G1/500
BVH (80°-90°)	5.6	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°	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6
2.5°	1164.4	1189.1	1189.9	1201.0	1212.2	1212.2	1238.4	1232.1	1209.0	1205.0	1188.3
5°	1173.2	1181.9	1188.3	1244.8	1292.6	1287.8	1302.1	1292.6	1248.0	1190.7	1151.7
7.5°	1097.6	1107.1	1132.6	1228.9	1293.3	1314.8	1341.9	1282.2	1235.2	1131.8	1057.0
10°	997.3	1015.6	1062.5	1172.4	1252.0	1320.4	1320.4	1272.7	1181.9	1080.8	989.3
12.5°	941.6	978.2	1003.6	1115.1	1218.5	1265.5	1263.9	1238.4	1179.5	1052.2	948.7
15°	951.1	961.5	1015.6	1102.3	1170.8	1168.4	1197.0	1189.1	1147.7	1077.7	963.8
17.5°	994.9	1010.8	1057.8	1102.3	1135.0	1125.4	1124.6	1162.8	1165.2	1120.6	1020.4
20°	1066.5	1113.5	1135.8	1149.3	1109.5	1068.9	1064.1	1117.5	1158.8	1175.6	1088.0
22.5°	1181.1	1212.2	1257.5	1188.3	1084.8	1033.9	1024.3	1083.2	1166.8	1240.8	1175.6
25°	1293.3	1317.2	1361.0	1271.9	1112.7	1026.7	1010.0	1060.9	1197.0	1331.6	1281.4
27.5°	1411.9	1432.6	1437.4	1333.1	1127.8	1012.4	992.5	1060.9	1222.5	1379.3	1408.0
30°	1484.4	1509.0	1513.8	1387.3	1152.5	1024.3	1014.8	1065.7	1240.0	1419.9	1498.7
32.5°	1565.5	1571.9	1567.9	1396.8	1179.5	1059.4	1019.6	1097.6	1259.9	1468.4	1581.5
35°	1662.6	1673.8	1633.2	1440.6	1240.0	1081.6	1067.3	1136.6	1294.1	1490.7	1681.8
37.5°	1736.7	1771.7	1680.2	1457.3	1252.0	1128.6	1131.0	1217.7	1318.0	1517.8	1792.4
40°	1876.0	1817.1	1759.8	1514.6	1297.3	1208.2	1195.5	1301.3	1398.4	1535.3	1864.8
42.5°	1952.4	1921.3	1790.8	1520.2	1367.4	1318.0	1321.2	1396.0	1440.6	1584.7	1884.7
45°	1971.5	1938.8	1833.0	1524.2	1436.6	1447.8	1502.7	1517.0	1502.7	1617.3	1922.1
47.5°	2020.0	1949.2	1828.2	1577.5	1548.8	1591.8	1661.9	1692.9	1587.0	1605.3	1939.6
50°	2010.5	1969.9	1817.9	1599.8	1685.7	1799.5	1846.5	1833.8	1681.0	1580.7	1920.5
52.5°	1970.7	1926.9	1849.7	1660.3	1813.9	1951.6	2016.8	1985.0	1764.5	1636.4	1907.8
55°	2028.8	1995.3	1891.1	1742.2	1910.2	2085.3	2131.4	2107.6	1867.2	1688.1	1980.2
57.5°	2091.6	2084.5	2003.3	1838.5	2024.0	2223.0	2223.0	2193.5	1956.3	1762.9	2087.7
60°	2182.4	2198.3	2086.1	1902.2	2063.0	2215.0	2330.4	2296.2	2046.3	1894.3	2209.4
62.5°	2152.9	2203.9	2192.7	2039.1	2107.6	2254.0	2316.9	2342.4	2157.7	2054.2	2371.8
65°	2058.2	2112.3	2191.9	2129.1	2074.1	2159.3	2191.1	2268.3	2213.4	2204.7	2438.7
67.5°	1945.2	2004.1	2053.4	2189.5	2006.5	2063.0	2035.1	2059.8	2152.9	2369.4	2476.9
70°	1698.5	1755.0	1833.0	2055.0	1827.4	1776.5	1769.3	1757.4	1902.2	2310.5	2303.4
72.5°	1396.8	1423.1	1552.0	1670.6	1352.2	1342.7	1353.8	1340.3	1508.2	2091.6	1973.1
75°	1045.8	1072.1	1145.3	1283.0	920.9	865.9	929.6	992.5	1151.7	1623.6	1417.5
77.5°	786.4	819.8	865.9	959.9	675.7	589.8	598.5	658.2	832.5	1300.5	794.3
80°	510.2	506.2	595.3	660.6	508.6	524.5	502.2	546.0	603.3	695.6	405.9
82.5°	294.5	298.5	335.9	378.9	354.2	405.1	292.1	487.9	430.6	283.3	151.2
85°	165.5	172.7	206.9	262.6	222.1	148.8	121.8	242.0	270.6	116.2	73.2
87.5°	16.7	14.3	27.9	99.5	60.5	24.7	36.6	58.1	65.3	43.8	21.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6
2.5°	1164.4	1164.4	1144.5	1111.1	1097.6	1073.7	1041.0	1051.4	1040.3	999.7	989.3
5°	1116.7	1078.5	1037.1	986.1	956.7	896.2	877.1	842.9	848.4	814.2	815.8
7.5°	1017.2	986.9	916.9	850.0	791.9	739.4	665.4	637.5	610.5	596.9	612.8
10°	959.1	902.6	807.0	719.5	642.3	595.3	546.0	507.8	472.8	446.5	440.9
12.5°	916.9	866.7	751.3	644.7	584.2	546.0	500.6	448.1	413.9	368.5	355.0
15°	904.2	842.9	721.1	615.2	556.3	493.5	441.7	390.0	345.4	297.7	281.0
17.5°	947.9	877.1	720.3	591.4	508.6	440.9	369.3	311.2	265.8	222.1	211.7
20°	1021.9	913.7	743.4	577.0	463.2	372.5	291.3	233.2	182.3	153.6	146.4
22.5°	1106.3	975.8	745.8	538.8	417.9	304.0	212.5	153.6	125.0	111.4	107.4
25°	1209.8	1075.3	774.4	507.8	364.5	230.8	151.2	117.8	101.1	93.1	91.5
27.5°	1294.9	1144.5	805.5	475.2	312.0	171.1	118.6	96.3	87.5	79.6	78.8
30°	1383.3	1224.1	814.2	455.3	266.6	140.9	101.9	85.2	75.6	71.6	70.8
32.5°	1460.5	1310.9	842.1	422.6	223.6	124.2	92.3	76.4	70.0	63.7	62.9
35°	1560.0	1361.0	855.6	405.1	207.7	112.2	84.4	70.0	60.5	56.5	54.9
37.5°	1666.6	1409.6	864.4	391.6	194.2	105.1	79.6	66.1	57.3	51.7	50.1
40°	1766.1	1478.0	851.6	374.9	183.9	96.3	76.4	61.3	53.3	47.8	45.4
42.5°	1842.5	1544.9	847.6	359.0	172.7	93.1	72.4	58.9	50.1	43.8	43.0
45°	1885.5	1590.2	819.8	346.2	164.0	94.7	70.8	55.7	47.8	42.2	39.0
47.5°	1875.2	1625.2	826.9	342.2	152.0	88.3	70.0	53.3	43.8	39.0	36.6
50°	1932.5	1696.1	815.0	329.5	143.3	79.6	76.4	53.3	43.0	37.4	35.0
52.5°	1942.0	1760.5	840.5	306.4	129.7	73.2	75.6	52.5	41.4	35.8	32.6
55°	2021.6	1835.4	889.8	293.7	118.6	63.7	69.2	50.9	37.4	32.6	31.0
57.5°	2129.8	1990.6	921.7	281.8	103.5	55.7	58.1	50.1	34.2	30.2	27.9
60°	2234.1	2052.6	924.0	260.3	89.1	50.1	45.4	50.1	31.8	27.1	24.7
62.5°	2312.1	2052.6	908.1	242.0	78.0	44.6	39.8	47.8	28.7	23.9	22.3
65°	2269.9	1997.7	866.7	226.8	70.8	39.0	34.2	36.6	25.5	20.7	19.1
67.5°	2194.3	1826.6	775.2	208.5	70.0	34.2	29.4	27.1	22.3	18.3	16.7
70°	2073.3	1595.8	645.5	187.8	68.4	31.0	26.3	23.1	19.9	15.9	14.3
72.5°	1670.6	1318.0	530.1	175.9	66.9	27.1	22.3	19.9	16.7	13.5	11.9
75°	1157.2	842.1	408.3	150.4	65.3	24.7	20.7	17.5	14.3	11.1	10.3
77.5°	694.0	562.7	263.4	113.0	43.0	19.9	17.5	13.5	11.9	9.6	8.8
80°	324.7	265.8	106.7	43.8	20.7	14.3	11.9	10.3	9.6	8.0	7.2
82.5°	127.3	112.2	51.7	25.5	16.7	11.1	9.6	8.8	8.0	6.4	5.6
85°	68.4	60.5	24.7	17.5	11.9	8.0	8.0	7.2	6.4	5.6	4.8
87.5°	15.1	11.1	10.3	10.3	8.8	6.4	6.4	5.6	4.8	4.0	3.2
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°	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6
2.5°	983.7	995.7	976.6	988.5	971.8	984.5	986.1	974.2	977.4	993.3	1000.5
5°	838.1	830.1	812.6	807.0	807.8	797.5	801.5	807.0	815.8	820.6	834.9
7.5°	604.1	622.4	621.6	635.1	635.9	634.3	623.2	599.3	607.3	600.9	608.9
10°	432.2	440.1	455.3	464.0	479.9	471.2	445.7	436.2	431.4	430.6	438.5
12.5°	345.4	326.3	324.7	327.9	335.9	325.5	312.8	301.6	307.2	318.4	327.1
15°	267.4	251.5	230.8	227.6	229.2	224.4	210.9	196.6	200.6	211.7	218.1
17.5°	205.3	187.0	172.7	163.2	160.0	143.3	123.4	111.4	108.2	107.4	113.0
20°	138.5	135.3	132.9	121.0	121.0	97.1	80.4	71.6	71.6	73.2	74.0
22.5°	103.5	99.5	100.3	97.9	91.5	72.4	63.7	61.3	61.3	62.9	62.9
25°	89.9	84.4	82.8	82.0	75.6	62.1	55.7	53.3	53.3	54.9	54.9
27.5°	76.4	74.8	72.4	69.2	63.7	53.3	49.3	47.0	47.8	48.6	47.8
30°	70.0	66.1	62.9	62.9	56.5	47.8	44.6	43.0	41.4	43.0	43.8
32.5°	62.1	59.7	58.1	55.7	48.6	42.2	39.0	37.4	36.6	36.6	37.4
35°	53.3	53.3	51.7	48.6	42.2	38.2	34.2	32.6	31.8	32.6	32.6
37.5°	47.8	45.4	46.2	43.0	37.4	33.4	29.4	27.9	27.9	27.1	27.9
40°	44.6	40.6	38.2	36.6	33.4	28.7	25.5	23.9	23.1	23.1	23.1
42.5°	39.8	36.6	31.8	31.0	30.2	24.7	20.7	19.9	19.1	18.3	18.3
45°	37.4	32.6	28.7	24.7	24.7	20.7	17.5	15.9	15.1	14.3	15.1
47.5°	34.2	29.4	24.7	20.7	19.9	16.7	13.5	11.9	11.1	11.1	11.1
50°	32.6	26.3	21.5	17.5	15.1	13.5	10.3	8.8	8.0	8.0	8.0
52.5°	30.2	24.7	19.1	15.1	11.9	10.3	8.0	6.4	5.6	5.6	5.6
55°	27.1	22.3	16.7	12.7	10.3	8.0	5.6	4.0	3.2	3.2	3.2
57.5°	25.5	19.9	14.3	11.1	8.0	5.6	3.2	2.4	2.4	1.6	2.4
60°	23.1	17.5	11.9	8.8	6.4	4.0	2.4	0.8	0.8	0.8	0.8
62.5°	19.9	15.1	10.3	7.2	4.8	2.4	0.8	0.0	0.0	0.0	0.0
65°	16.7	11.9	8.0	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	14.3	10.3	6.4	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.7	8.8	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.3	7.2	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.8	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.2	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.8	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°	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6	1120.6
2.5°	1010.8	1006.0	1029.9	1068.9	1088.8	1127.8	1137.4	1162.0	1155.7	1164.4
5°	836.5	846.0	881.1	938.4	959.1	1015.6	1068.9	1122.2	1156.5	1173.2
7.5°	620.8	652.6	695.6	748.2	801.5	875.5	966.2	1028.3	1061.7	1097.6
10°	462.4	496.6	546.0	597.7	684.5	767.3	858.0	935.2	963.8	997.3
12.5°	363.7	417.1	474.4	530.1	581.8	660.6	772.8	885.0	916.1	941.6
15°	253.1	318.4	400.3	472.8	545.2	613.6	729.8	865.9	908.1	951.1
17.5°	140.1	191.8	285.7	387.6	494.3	599.3	744.2	901.0	964.6	994.9
20°	81.2	101.9	168.7	289.7	430.6	568.3	751.3	967.0	1051.4	1066.5
22.5°	66.9	74.0	95.5	181.5	352.6	548.4	787.9	1059.4	1145.3	1181.1
25°	57.3	62.9	74.0	109.0	266.6	506.2	811.0	1174.8	1254.3	1293.3
27.5°	50.9	56.5	65.3	80.4	181.5	448.1	849.2	1279.0	1358.6	1411.9
30°	44.6	49.3	58.1	68.4	125.8	382.8	881.9	1355.4	1467.7	1484.4
32.5°	39.8	43.8	50.1	58.9	93.1	290.5	908.1	1434.2	1528.9	1565.5
35°	34.2	39.0	43.0	50.1	70.8	218.9	892.2	1495.5	1618.9	1662.6
37.5°	30.2	33.4	37.4	42.2	59.7	171.1	859.6	1568.7	1696.1	1736.7
40°	25.5	27.9	32.6	37.4	54.1	132.1	822.2	1657.1	1804.3	1876.0
42.5°	21.5	23.9	27.1	35.0	44.6	97.9	746.6	1725.5	1891.9	1952.4
45°	16.7	19.9	24.7	35.0	35.8	72.4	668.6	1776.5	1941.2	1971.5
47.5°	12.7	15.9	23.9	30.2	28.7	50.1	576.2	1834.6	1992.2	2020.0
50°	9.6	12.7	27.1	26.3	23.9	38.2	518.1	1875.2	1995.3	2010.5
52.5°	6.4	9.6	22.3	19.9	19.9	33.4	502.2	1873.6	2003.3	1970.7
55°	4.8	7.2	12.7	14.3	17.5	29.4	487.9	1933.3	2005.7	2028.8
57.5°	3.2	5.6	8.8	11.1	15.1	25.5	458.4	2004.9	2079.7	2091.6
60°	1.6	4.0	6.4	8.8	12.7	22.3	417.1	2057.4	2169.6	2182.4
62.5°	0.8	2.4	4.8	7.2	10.3	17.5	374.1	1973.8	2130.6	2152.9
65°	0.0	1.6	3.2	4.8	6.4	12.7	304.0	1782.0	1976.2	2058.2
67.5°	0.0	0.0	1.6	3.2	4.0	9.6	229.2	1621.3	1833.8	1945.2
70°	0.0	0.0	0.8	0.8	2.4	7.2	146.4	1342.7	1637.2	1698.5
72.5°	0.0	0.0	0.0	0.0	0.8	4.8	85.2	997.3	1283.0	1396.8
75°	0.0	0.0	0.0	0.0	0.0	4.0	43.0	641.5	893.0	1045.8
77.5°	0.0	0.0	0.0	0.0	0.0	3.2	23.1	413.9	658.2	786.4
80°	0.0	0.0	0.0	0.0	0.0	0.8	13.5	240.4	421.0	510.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	117.8	251.5	294.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	62.9	125.8	165.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.8	16.7
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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