

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: P675822

Luminaire Tested: **CCW-SA-1C-730-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675822
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-730-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

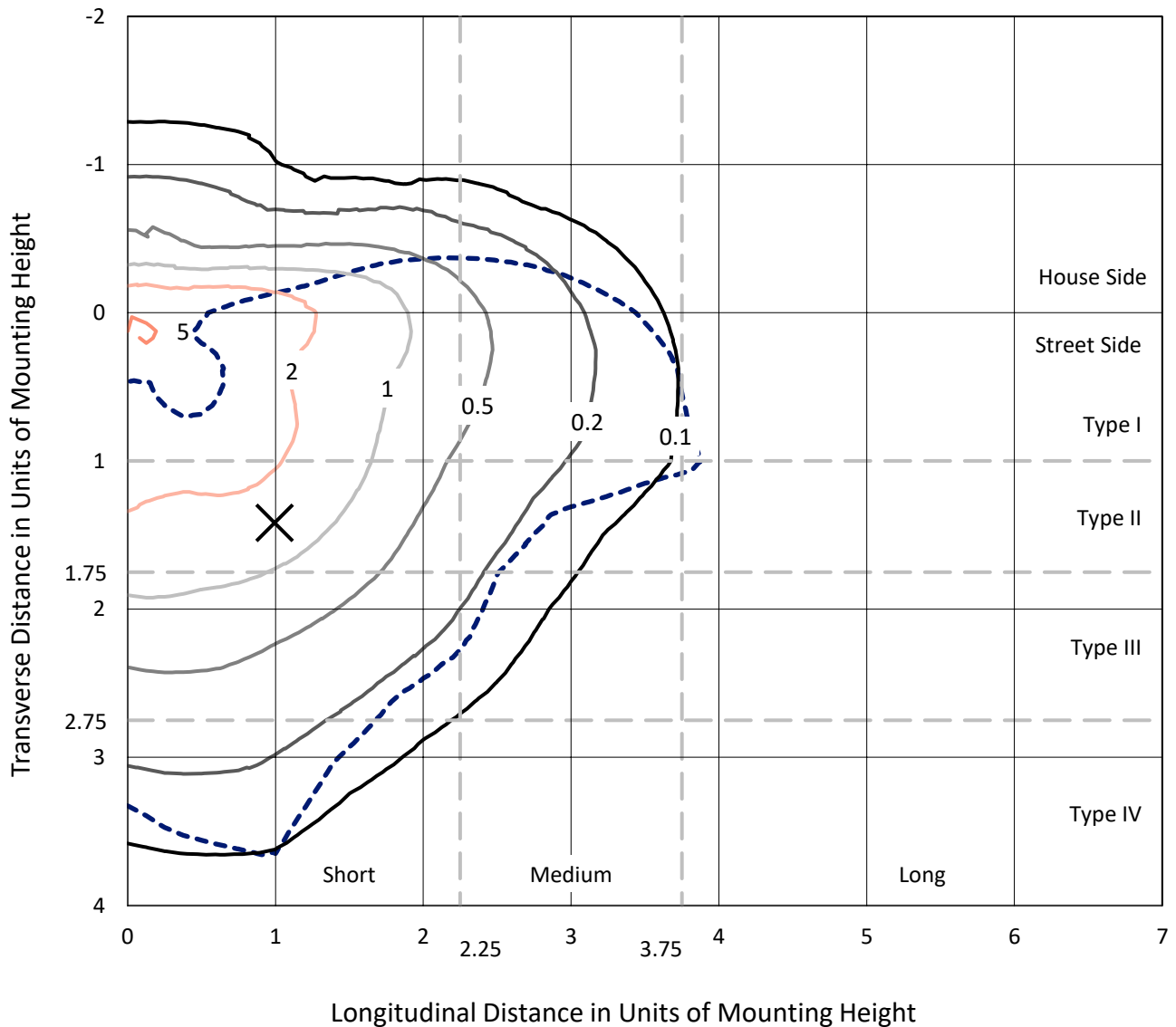
Lumens per Lamp: N/A
Luminaire Lumens: 3416 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

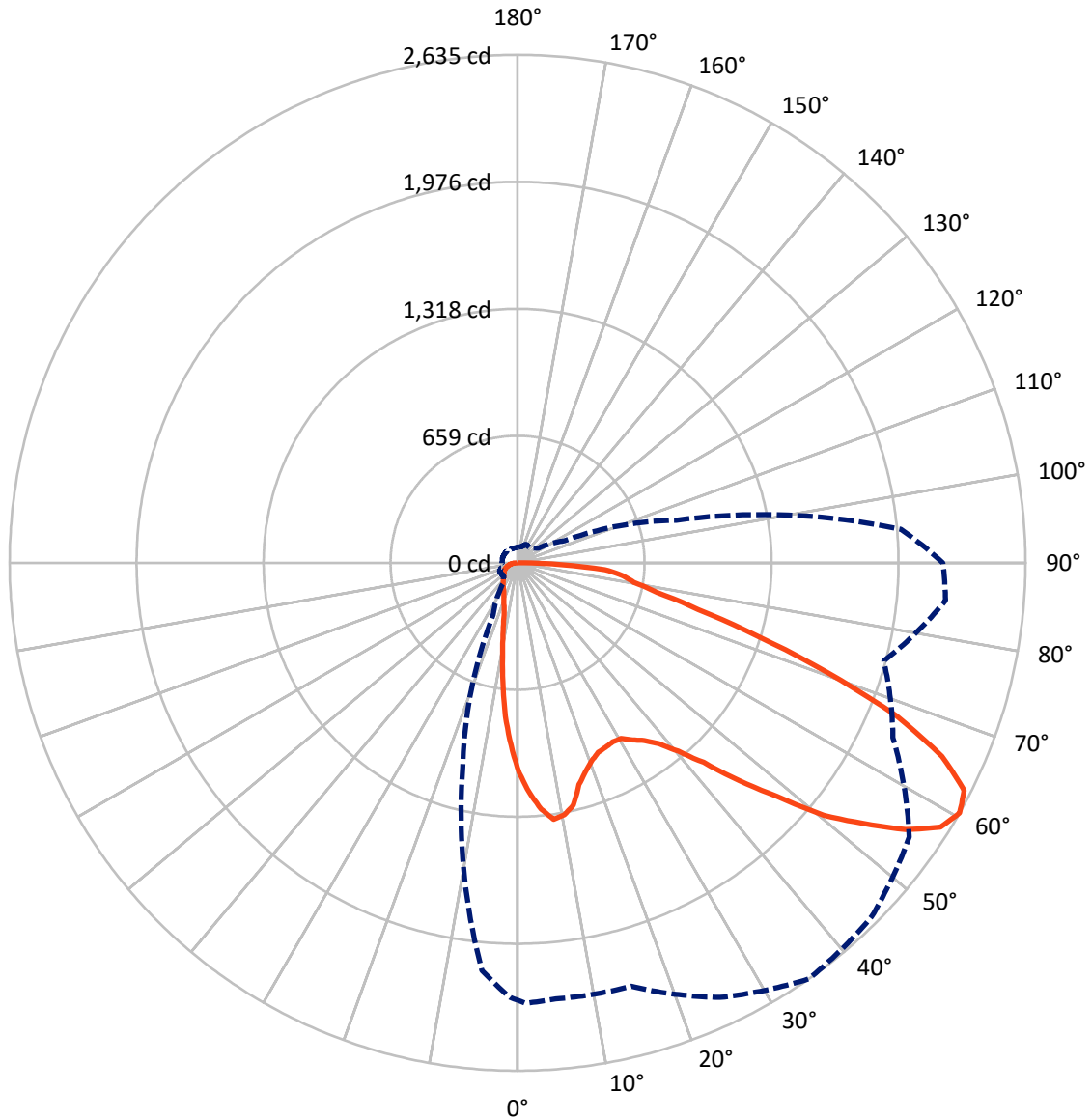
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.1	0.0	650.1
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2765.9	0.0	2765.9
	% Fixture	81.0	0.0	81.0
Total	Lumens	3416.0	0.0	3416.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	2.5
10°-20°	179.0	5.2
20°-30°	261.8	7.7
30°-40°	368.9	10.8
40°-50°	507.0	14.8
50°-60°	691.0	20.2
60°-70°	756.2	22.1
70°-80°	436.6	12.8
80°-90°	130.7	3.8
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°	3416.0	100.0
0°-180°	3416.0	100.0

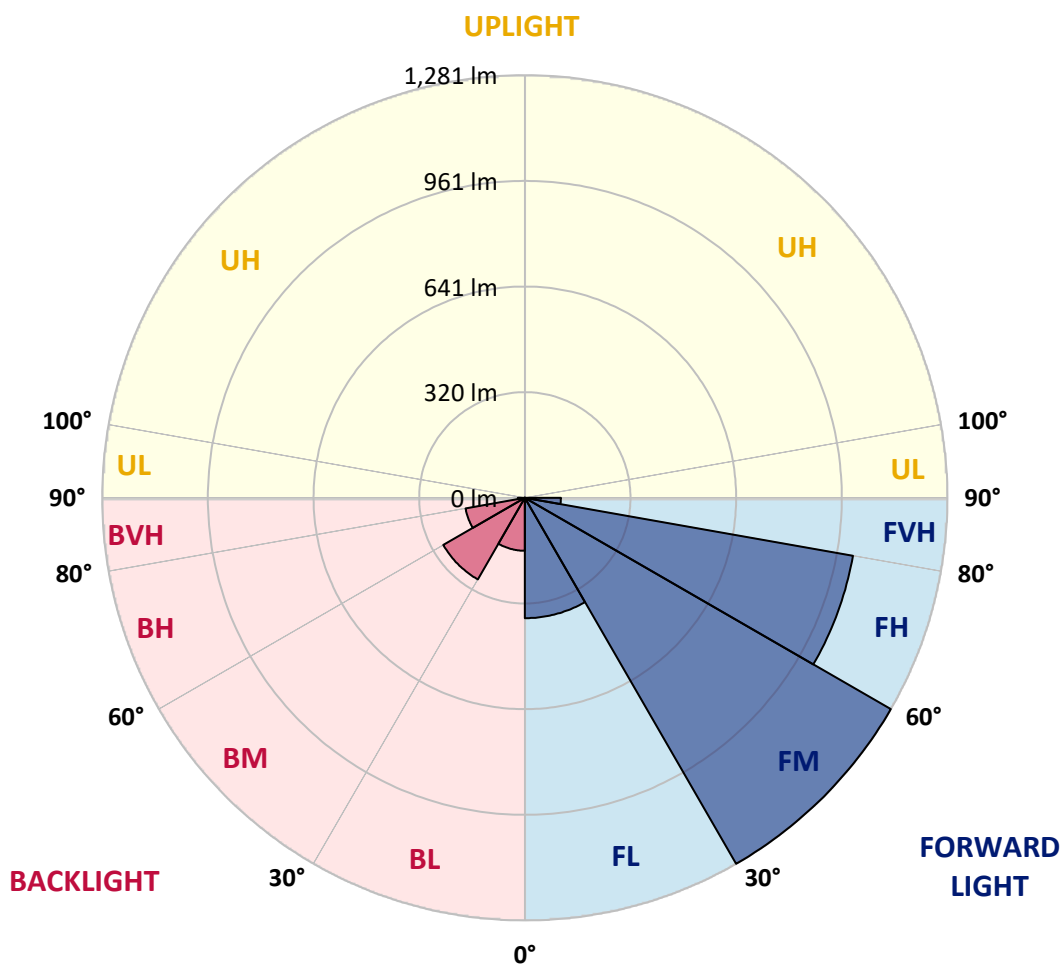


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.9	10.7			
FM (30°-60°)	1281.3	37.5			
FH (60°-80°)	1010.2	29.6			G1/1800
FVH (80°-90°)	109.4	3.2			G2/225
BL (0°-30°)	160.6	4.7	B1/500		
BM (30°-60°)	285.6	8.4	B1/1000		
BH (60°-80°)	182.6	5.3	B1/500		G1/500
BVH (80°-90°)	21.3	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1
2.5°	1168.3	1163.8	1168.3	1185.0	1189.6	1197.1	1197.1	1186.5	1166.8	1157.7	1142.6
5°	1194.1	1186.5	1224.4	1259.3	1286.5	1283.5	1257.8	1236.5	1197.1	1138.0	1082.0
7.5°	1142.6	1150.2	1177.4	1268.4	1332.0	1344.1	1303.2	1260.8	1175.9	1094.1	1018.3
10°	1045.6	1056.2	1115.3	1209.3	1309.3	1329.0	1303.2	1251.7	1150.2	1048.6	960.7
12.5°	998.6	1022.9	1057.7	1171.4	1242.6	1289.6	1277.5	1244.1	1130.5	1010.7	925.9
15°	998.6	1004.7	1056.2	1151.7	1192.6	1194.1	1198.7	1204.7	1136.5	1027.4	913.8
17.5°	1030.4	1047.1	1091.1	1150.2	1157.7	1139.6	1139.6	1165.3	1148.6	1074.4	957.7
20°	1107.7	1101.7	1159.3	1183.5	1142.6	1097.1	1092.6	1136.5	1162.3	1124.4	1038.0
22.5°	1185.0	1212.3	1259.3	1204.7	1128.9	1068.3	1062.3	1116.8	1203.2	1210.8	1130.5
25°	1301.7	1329.0	1353.2	1286.5	1127.4	1060.8	1065.3	1107.7	1253.2	1333.5	1285.0
27.5°	1427.5	1444.1	1479.0	1376.0	1163.8	1051.7	1056.2	1119.9	1300.2	1413.8	1406.3
30°	1498.7	1516.9	1509.3	1392.6	1188.0	1057.7	1045.6	1136.5	1274.4	1413.8	1485.1
32.5°	1568.4	1557.8	1553.2	1419.9	1218.4	1095.6	1065.3	1171.4	1289.6	1436.6	1586.6
35°	1653.3	1638.1	1626.0	1472.9	1268.4	1132.0	1118.3	1216.8	1322.9	1483.5	1668.4
37.5°	1747.2	1747.2	1688.1	1512.3	1327.5	1191.1	1175.9	1282.0	1376.0	1512.3	1780.6
40°	1857.8	1862.4	1757.8	1565.4	1394.1	1285.0	1280.5	1366.9	1427.5	1554.8	1888.1
42.5°	1939.7	1942.7	1818.4	1585.1	1471.4	1415.4	1435.0	1503.2	1486.6	1592.6	1895.7
45°	1995.7	1980.6	1860.9	1641.1	1556.3	1610.8	1616.9	1636.6	1563.9	1615.4	1926.0
47.5°	2023.0	2020.0	1879.1	1706.3	1735.1	1809.3	1844.2	1816.9	1635.1	1591.1	1926.0
50°	2050.3	2024.5	1895.7	1795.7	1909.4	2059.4	2051.8	2001.8	1733.6	1621.4	1897.2
52.5°	2068.5	2045.7	1929.1	1876.0	2076.0	2245.8	2276.1	2183.6	1848.7	1677.5	1910.9
55°	2133.6	2115.4	2029.1	1985.1	2268.5	2442.8	2447.3	2318.5	1970.0	1769.9	2000.3
57.5°	2212.4	2223.0	2167.0	2139.7	2415.5	2586.7	2570.1	2418.5	2073.0	1882.1	2103.3
60°	2268.5	2285.2	2271.5	2274.6	2488.2	2635.2	2597.3	2480.7	2148.8	1966.9	2229.1
62.5°	2238.2	2271.5	2327.6	2315.5	2491.3	2600.4	2547.3	2398.8	2157.9	2077.6	2324.6
65°	2154.8	2157.9	2267.0	2333.7	2354.9	2420.0	2350.3	2227.6	2063.9	2145.8	2310.9
67.5°	1941.2	1965.4	2063.9	2194.2	2104.8	2120.0	2113.9	1936.6	1921.5	2098.8	2206.4
70°	1713.9	1730.5	1838.1	1991.2	1777.5	1706.3	1719.9	1588.1	1650.2	1953.3	1995.7
72.5°	1416.9	1427.5	1550.2	1685.1	1426.0	1298.7	1330.5	1222.9	1310.8	1709.3	1683.6
75°	1069.8	1089.5	1185.0	1344.1	1050.1	968.3	1000.1	956.2	1038.0	1407.8	1306.2
77.5°	760.7	745.6	863.8	1051.7	789.5	741.0	744.0	751.6	839.5	1186.5	938.0
80°	518.3	522.8	628.9	771.3	619.8	612.2	604.6	665.2	704.6	939.5	681.9
82.5°	307.6	307.6	424.3	548.6	489.5	551.6	516.7	571.3	551.6	691.0	447.0
85°	144.0	144.0	218.2	395.5	378.8	454.6	386.4	431.9	407.6	481.9	201.5
87.5°	24.2	21.2	43.9	194.0	156.1	177.3	69.7	230.3	256.1	336.4	50.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1
2.5°	1125.9	1115.3	1094.1	1066.8	1044.1	1015.3	1006.2	986.5	959.2	956.2	944.1
5°	1060.8	1024.4	978.9	922.9	885.0	845.6	812.2	792.5	769.8	766.8	760.7
7.5°	989.5	944.1	868.3	801.6	736.5	674.3	644.0	606.1	580.4	560.7	551.6
10°	922.9	880.4	786.5	695.6	638.0	597.1	560.7	521.3	489.5	465.2	456.1
12.5°	878.9	828.9	727.4	641.0	598.6	551.6	510.7	468.2	427.3	395.5	378.8
15°	859.2	812.2	709.2	613.7	551.6	486.4	439.5	397.0	347.0	324.3	316.7
17.5°	906.2	836.5	703.1	581.9	494.0	419.8	362.2	316.7	280.3	257.6	248.5
20°	966.8	880.4	713.7	544.0	439.5	356.1	292.5	244.0	219.7	203.1	201.5
22.5°	1044.1	945.6	730.4	516.7	378.8	286.4	228.8	200.0	183.4	181.8	178.8
25°	1182.0	1063.8	757.7	480.4	330.3	236.4	195.5	178.8	171.2	166.7	169.7
27.5°	1300.2	1141.1	777.4	457.6	310.6	222.8	189.4	171.2	163.7	162.1	163.7
30°	1369.9	1212.3	771.3	415.2	271.3	212.2	201.5	195.5	180.3	168.2	168.2
32.5°	1433.5	1257.8	769.8	377.3	231.9	177.3	168.2	163.7	172.8	178.8	174.3
35°	1521.4	1329.0	765.3	356.1	215.2	163.7	148.5	136.4	130.3	127.3	131.8
37.5°	1615.4	1377.5	753.1	353.1	206.1	156.1	144.0	131.8	125.8	122.7	121.2
40°	1718.4	1429.0	739.5	337.9	201.5	151.5	139.4	128.8	121.2	116.7	115.2
42.5°	1785.1	1469.9	725.9	330.3	192.5	148.5	134.9	125.8	118.2	112.1	112.1
45°	1823.0	1518.4	712.2	322.8	181.8	150.0	134.9	122.7	113.7	110.6	107.6
47.5°	1839.7	1554.8	707.7	310.6	172.8	144.0	131.8	119.7	110.6	104.6	103.0
50°	1883.6	1632.0	724.3	301.6	162.1	137.9	139.4	118.2	109.1	101.5	100.0
52.5°	1909.4	1694.2	760.7	287.9	154.6	130.3	136.4	115.2	104.6	97.0	97.0
55°	2003.3	1797.2	800.1	277.3	145.5	119.7	125.8	109.1	97.0	92.4	92.4
57.5°	2123.0	1906.3	833.5	272.8	139.4	112.1	112.1	106.1	92.4	86.4	84.9
60°	2206.4	1995.7	853.1	269.7	133.4	104.6	100.0	106.1	87.9	81.8	80.3
62.5°	2215.5	1944.2	833.5	268.2	131.8	97.0	90.9	101.5	83.3	77.3	74.3
65°	2157.9	1839.7	778.9	262.2	130.3	89.4	84.9	87.9	77.3	72.7	69.7
67.5°	2042.7	1669.9	700.1	259.1	128.8	83.3	77.3	75.8	71.2	66.7	63.6
70°	1774.5	1448.7	607.7	245.5	125.8	78.8	69.7	68.2	63.6	60.6	59.1
72.5°	1489.6	1185.0	501.6	227.3	119.7	71.2	63.6	60.6	59.1	54.6	53.0
75°	1141.1	912.2	401.6	201.5	104.6	63.6	56.1	53.0	51.5	48.5	47.0
77.5°	801.6	678.9	297.0	163.7	87.9	57.6	50.0	47.0	45.5	40.9	40.9
80°	544.0	475.8	201.5	113.7	68.2	47.0	43.9	40.9	37.9	34.9	34.9
82.5°	337.9	333.4	145.5	74.3	50.0	37.9	34.9	34.9	30.3	27.3	27.3
85°	154.6	204.6	101.5	51.5	37.9	28.8	28.8	27.3	24.2	19.7	19.7
87.5°	48.5	68.2	53.0	22.7	21.2	16.7	16.7	15.2	15.2	12.1	12.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1
2.5°	956.2	954.7	954.7	948.6	963.8	963.8	972.9	965.3	969.8	971.3	983.5
5°	759.2	771.3	780.4	798.6	809.2	813.8	813.8	825.9	821.3	830.4	848.6
7.5°	556.1	571.3	598.6	621.3	639.5	645.5	644.0	647.1	651.6	641.0	644.0
10°	450.1	439.5	448.5	469.8	486.4	506.1	491.0	489.5	494.0	489.5	498.6
12.5°	375.8	363.7	356.1	356.1	368.2	377.3	372.8	380.4	397.0	401.6	412.2
15°	304.6	294.0	287.9	280.3	292.5	295.5	300.0	310.6	322.8	328.8	341.0
17.5°	244.0	244.0	244.0	237.9	242.5	247.0	248.5	262.2	263.7	269.7	274.3
20°	200.0	204.6	212.2	215.2	219.7	219.7	216.7	224.3	218.2	222.8	225.8
22.5°	180.3	186.4	189.4	190.9	197.0	198.5	190.9	192.5	194.0	189.4	190.9
25°	169.7	172.8	169.7	171.2	172.8	169.7	171.2	174.3	172.8	175.8	174.3
27.5°	165.2	162.1	160.6	159.1	159.1	156.1	157.6	157.6	160.6	162.1	162.1
30°	165.2	160.6	154.6	150.0	150.0	145.5	148.5	151.5	153.1	156.1	156.1
32.5°	169.7	160.6	150.0	145.5	140.9	137.9	140.9	145.5	151.5	153.1	154.6
35°	134.9	139.4	137.9	131.8	130.3	130.3	128.8	128.8	124.3	124.3	122.7
37.5°	121.2	119.7	122.7	124.3	125.8	121.2	121.2	115.2	113.7	115.2	115.2
40°	113.7	113.7	113.7	118.2	119.7	116.7	112.1	109.1	109.1	109.1	110.6
42.5°	110.6	107.6	106.1	109.1	113.7	110.6	106.1	104.6	104.6	106.1	106.1
45°	106.1	104.6	103.0	101.5	107.6	103.0	101.5	100.0	100.0	100.0	101.5
47.5°	101.5	100.0	97.0	97.0	98.5	97.0	95.5	95.5	95.5	98.5	98.5
50°	98.5	97.0	94.0	94.0	94.0	94.0	92.4	92.4	92.4	94.0	95.5
52.5°	94.0	92.4	90.9	89.4	89.4	89.4	89.4	89.4	89.4	90.9	92.4
55°	89.4	87.9	86.4	86.4	87.9	87.9	86.4	87.9	86.4	87.9	89.4
57.5°	84.9	83.3	81.8	83.3	84.9	83.3	83.3	83.3	83.3	83.3	84.9
60°	78.8	78.8	78.8	78.8	81.8	81.8	81.8	81.8	78.8	80.3	81.8
62.5°	75.8	74.3	74.3	75.8	77.3	77.3	78.8	77.3	75.8	77.3	77.3
65°	69.7	69.7	69.7	71.2	71.2	72.7	72.7	72.7	71.2	72.7	72.7
67.5°	65.2	65.2	65.2	65.2	68.2	68.2	68.2	68.2	66.7	66.7	68.2
70°	57.6	59.1	57.6	60.6	63.6	62.1	63.6	63.6	62.1	60.6	63.6
72.5°	53.0	53.0	53.0	53.0	57.6	57.6	57.6	59.1	57.6	56.1	57.6
75°	47.0	47.0	47.0	48.5	51.5	51.5	51.5	51.5	51.5	50.0	50.0
77.5°	40.9	42.4	40.9	42.4	45.5	43.9	45.5	47.0	45.5	43.9	43.9
80°	34.9	34.9	34.9	36.4	37.9	37.9	37.9	39.4	37.9	36.4	36.4
82.5°	27.3	27.3	28.8	28.8	30.3	30.3	30.3	31.8	30.3	28.8	28.8
85°	21.2	21.2	21.2	22.7	22.7	24.2	24.2	25.8	25.8	24.2	24.2
87.5°	13.6	12.1	13.6	13.6	15.2	15.2	13.6	12.1	13.6	12.1	10.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1	1091.1
2.5°	995.6	1022.9	1042.6	1056.2	1075.9	1113.8	1128.9	1156.2	1163.8	1168.3
5°	856.2	885.0	927.4	957.7	992.6	1063.8	1118.3	1159.3	1177.4	1194.1
7.5°	671.3	709.2	753.1	792.5	850.1	938.0	1009.2	1094.1	1125.9	1142.6
10°	524.3	559.2	607.7	656.2	736.5	810.7	912.2	989.5	1033.5	1045.6
12.5°	442.5	483.4	541.0	600.1	650.1	735.0	838.0	950.1	991.0	998.6
15°	375.8	431.9	491.0	551.6	609.2	683.4	794.1	930.4	991.0	998.6
17.5°	310.6	360.7	430.4	495.5	562.2	663.7	801.6	947.1	1007.7	1030.4
20°	247.0	295.5	350.0	431.9	522.8	630.4	818.3	1003.2	1083.5	1107.7
22.5°	204.6	225.8	278.8	357.6	465.2	607.7	835.0	1091.1	1175.9	1185.0
25°	178.8	194.0	227.3	301.6	419.8	592.5	874.4	1192.6	1301.7	1301.7
27.5°	166.7	172.8	195.5	262.2	387.9	578.9	913.8	1304.7	1406.3	1427.5
30°	163.7	178.8	190.9	233.4	353.1	541.0	950.1	1392.6	1497.2	1498.7
32.5°	160.6	157.6	166.7	203.1	310.6	501.6	980.4	1482.0	1563.9	1568.4
35°	125.8	131.8	147.0	178.8	278.8	472.8	995.6	1530.5	1648.7	1653.3
37.5°	118.2	125.8	137.9	165.2	257.6	448.5	1000.1	1624.5	1738.1	1747.2
40°	115.2	121.2	130.3	153.1	240.9	418.2	1009.2	1721.5	1870.0	1857.8
42.5°	109.1	116.7	125.8	147.0	227.3	395.5	1010.7	1774.5	1939.7	1939.7
45°	107.6	112.1	122.7	147.0	212.2	375.8	986.5	1827.5	2020.0	1995.7
47.5°	101.5	110.6	119.7	142.4	194.0	356.1	957.7	1854.8	2030.6	2023.0
50°	100.0	109.1	124.3	134.9	183.4	347.0	951.6	1923.0	2051.8	2050.3
52.5°	97.0	106.1	128.8	128.8	169.7	334.9	980.4	1953.3	2056.3	2068.5
55°	92.4	106.1	119.7	118.2	157.6	319.7	1012.3	2032.1	2136.7	2133.6
57.5°	89.4	103.0	113.7	107.6	144.0	309.1	1059.2	2107.9	2233.6	2212.4
60°	84.9	103.0	101.5	100.0	133.4	300.0	1098.6	2123.0	2254.9	2268.5
62.5°	81.8	107.6	89.4	92.4	124.3	295.5	1082.0	2009.4	2226.1	2238.2
65°	78.8	92.4	81.8	84.9	121.2	286.4	1016.8	1873.0	2101.8	2154.8
67.5°	72.7	75.8	75.8	78.8	118.2	265.2	883.5	1627.5	1912.4	1941.2
70°	66.7	68.2	68.2	72.7	115.2	240.9	728.9	1407.8	1659.3	1713.9
72.5°	60.6	60.6	60.6	66.7	106.1	221.2	600.1	1082.0	1379.0	1416.9
75°	53.0	53.0	53.0	59.1	95.5	201.5	472.8	804.7	1015.3	1069.8
77.5°	47.0	47.0	45.5	53.0	83.3	163.7	341.0	568.3	715.3	760.7
80°	39.4	37.9	37.9	42.4	65.2	118.2	219.7	401.6	498.6	518.3
82.5°	31.8	30.3	28.8	31.8	47.0	74.3	136.4	280.3	319.7	307.6
85°	30.3	31.8	25.8	24.2	33.3	48.5	86.4	172.8	144.0	144.0
87.5°	12.1	10.6	10.6	9.1	16.7	18.2	37.9	31.8	24.2	24.2
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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