

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: P677450

Luminaire Tested: **CCW-SA-1C-760-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677450
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-760-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

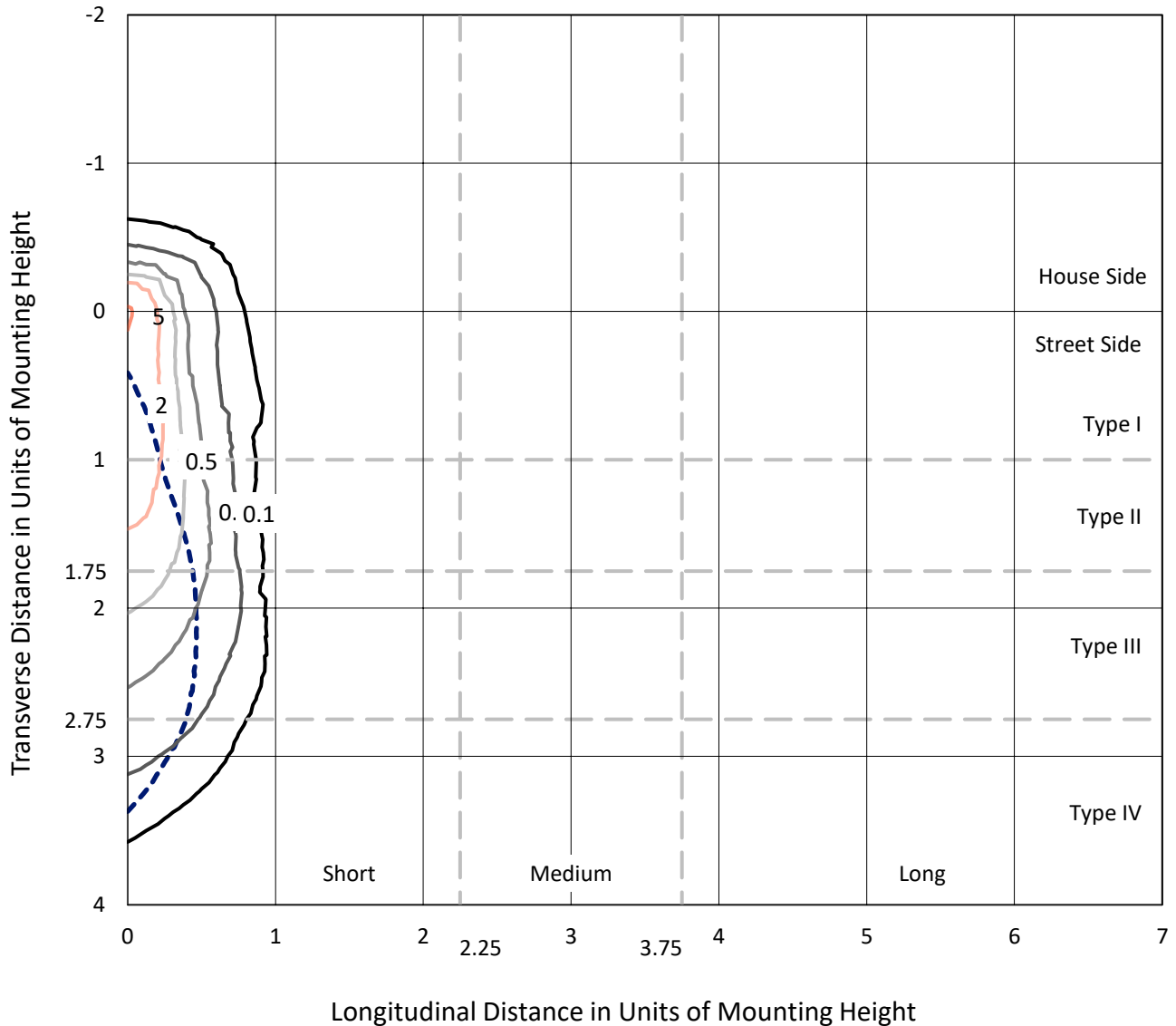
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

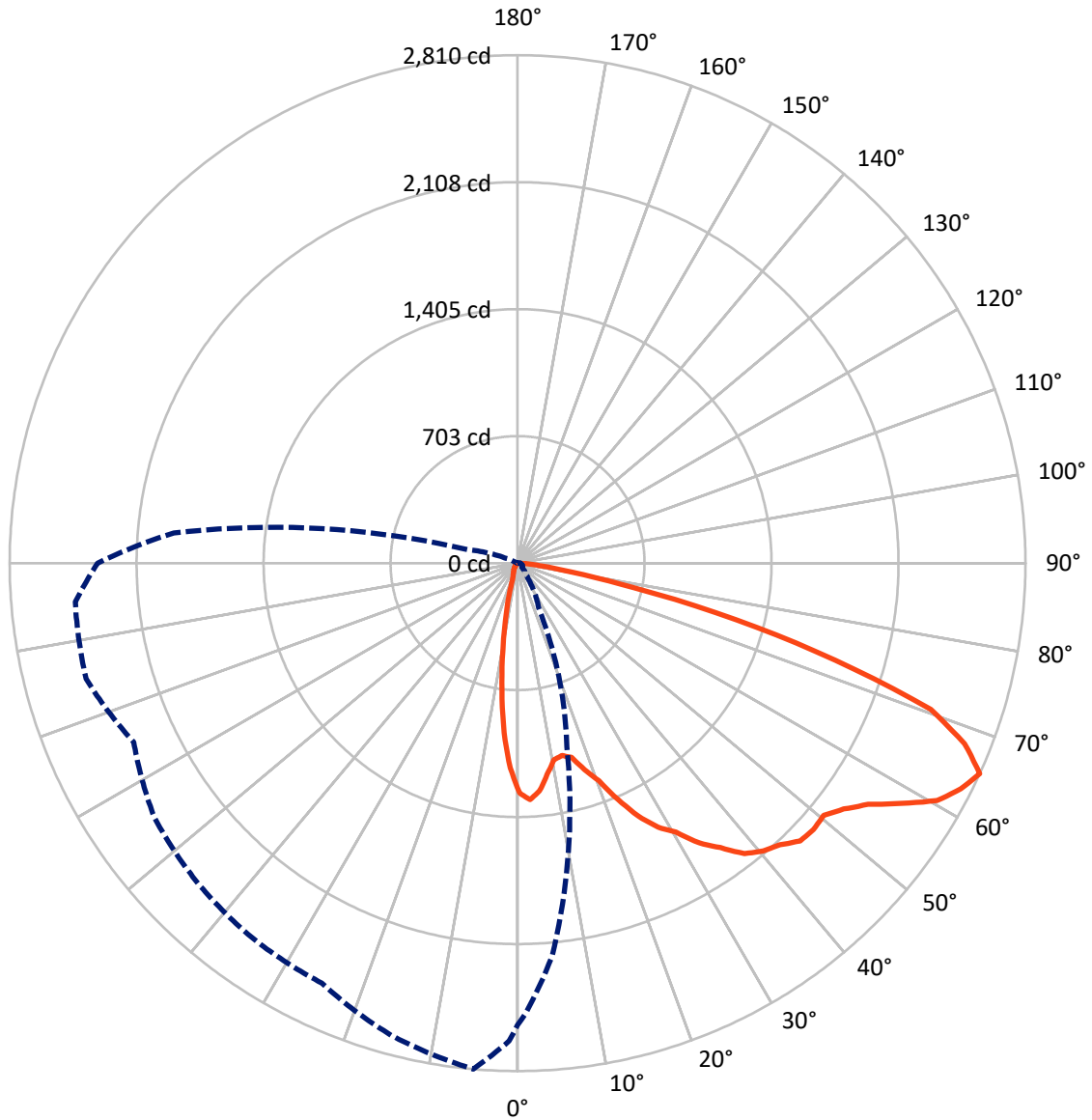
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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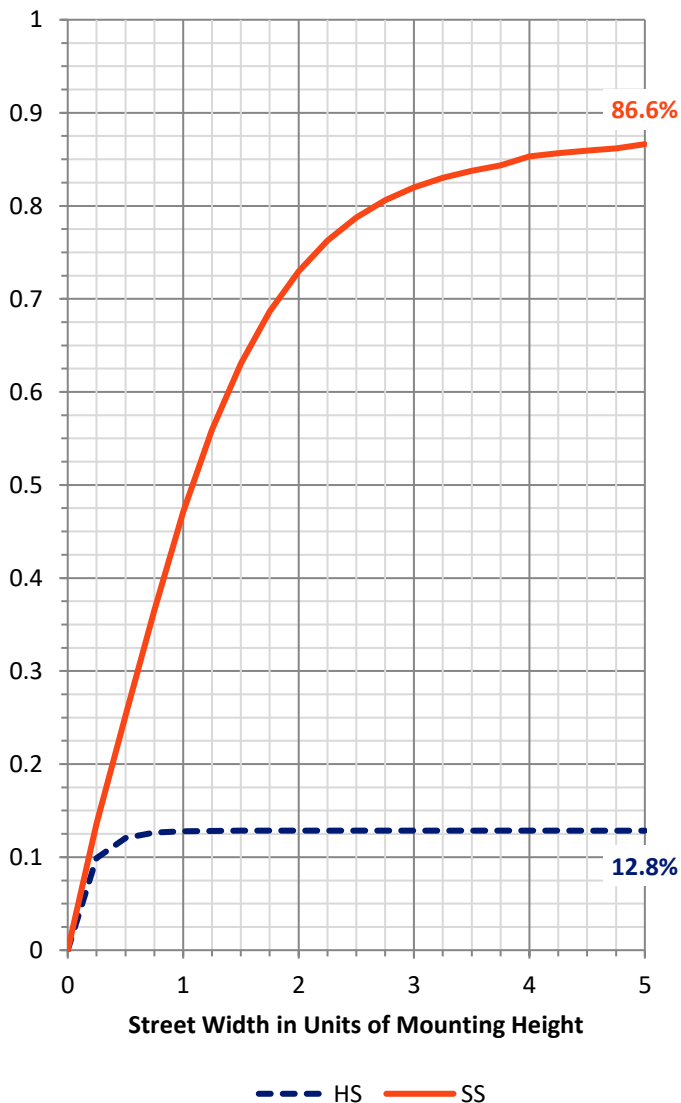
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	431.5	0.0	431.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2892.0	0.0	2892.0
	% Fixture	87.0	0.0	87.0
Total	Lumens	3323.5	0.0	3323.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	2.9
10°-20°	186.4	5.6
20°-30°	259.6	7.8
30°-40°	368.8	11.1
40°-50°	511.4	15.4
50°-60°	696.9	21.0
60°-70°	766.2	23.1
70°-80°	376.6	11.3
80°-90°	61.5	1.9
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°	3323.5	100.0
0°-180°	3323.5	100.0



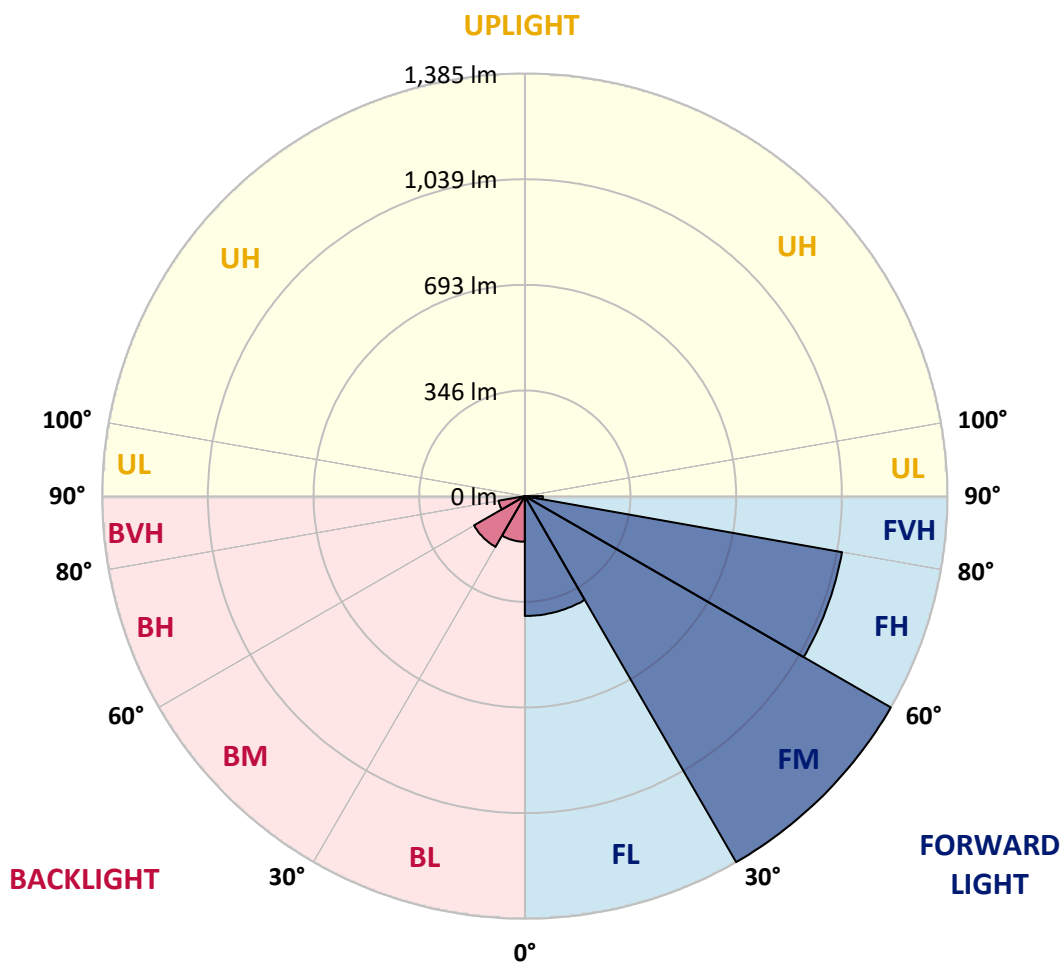
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.8	11.8			
FM (30°-60°)	1385.0	41.7			
FH (60°-80°)	1055.5	31.8			G1/1800
FVH (80°-90°)	58.7	1.8			G1/100
BL (0°-30°)	149.4	4.5	B1/500		
BM (30°-60°)	192.1	5.8	B0/220		
BH (60°-80°)	87.2	2.6	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1296.6	1311.8	1297.5	1247.3	1238.3	1214.1	1177.4	1174.7	1136.2	1140.7	1120.0
5°	1218.6	1233.8	1203.4	1137.1	1075.2	1026.0	996.4	943.5	931.9	905.9	905.9
7.5°	1138.9	1138.0	1086.0	1030.4	938.2	847.7	806.4	730.3	685.5	661.3	638.0
10°	1072.6	1058.2	1026.0	911.3	810.9	716.8	665.8	615.6	569.0	528.7	488.3
12.5°	1026.0	1034.9	983.9	859.3	729.4	664.0	609.3	556.4	500.9	455.2	410.4
15°	1050.2	1035.8	975.8	847.7	715.9	626.3	553.8	489.2	427.4	367.4	333.3
17.5°	1125.4	1088.7	1017.9	847.7	688.2	569.0	481.2	405.0	338.7	284.9	242.8
20°	1226.7	1184.6	1108.4	879.0	667.5	526.9	406.8	310.9	241.9	191.8	159.5
22.5°	1330.6	1297.5	1182.8	891.6	643.4	470.4	320.8	224.9	161.3	129.0	112.9
25°	1455.2	1408.6	1283.1	941.7	607.5	415.8	252.7	156.8	120.1	103.0	93.2
27.5°	1554.6	1546.6	1377.2	972.2	580.6	371.0	199.8	124.5	99.5	86.9	80.6
30°	1680.1	1636.2	1491.9	1033.1	550.2	319.9	166.7	112.0	91.4	78.0	73.5
32.5°	1755.3	1734.7	1551.9	1067.2	516.1	277.8	143.4	98.6	83.3	73.5	69.0
35°	1864.7	1823.4	1638.0	1088.7	498.2	253.6	129.0	89.6	69.9	60.0	54.7
37.5°	1986.5	1971.3	1741.0	1087.8	472.2	239.2	119.2	83.3	66.3	55.6	49.3
40°	2111.1	2049.2	1803.7	1112.9	458.8	228.5	112.0	79.7	62.7	52.9	44.8
42.5°	2204.3	2133.5	1876.3	1103.9	442.6	209.7	109.3	74.4	60.0	48.4	41.2
45°	2229.3	2204.3	1941.7	1101.2	431.0	194.4	104.8	73.5	58.2	45.7	38.5
47.5°	2277.7	2260.7	2022.4	1105.7	422.0	182.8	94.1	75.3	55.6	43.0	36.7
50°	2299.2	2268.8	2087.8	1116.5	401.4	168.5	84.2	78.9	54.7	42.1	34.9
52.5°	2387.9	2361.1	2177.4	1146.9	384.4	149.6	74.4	75.3	56.5	39.4	33.2
55°	2474.9	2444.4	2315.4	1216.8	360.2	134.4	63.6	66.3	53.8	35.8	29.6
57.5°	2594.0	2543.9	2407.7	1245.5	338.7	113.8	56.5	54.7	50.2	32.3	26.0
60°	2612.0	2632.6	2394.2	1227.6	316.3	100.4	49.3	42.1	53.8	28.7	22.4
62.5°	2672.0	2586.0	2331.5	1186.4	300.2	92.3	43.9	34.9	46.6	25.1	18.8
65°	2556.4	2492.8	2184.5	1053.7	279.6	93.2	38.5	28.7	29.6	20.6	15.2
67.5°	2387.0	2336.9	1940.8	909.5	259.0	91.4	34.0	25.1	22.4	17.9	13.4
70°	2094.9	1986.5	1648.7	738.3	228.5	85.1	28.7	22.4	18.8	14.3	9.9
72.5°	1524.2	1480.3	1182.8	570.8	205.2	77.1	26.9	18.8	16.1	10.8	8.1
75°	1026.0	953.4	746.4	374.5	164.9	67.2	22.4	17.0	12.5	8.1	6.3
77.5°	542.1	512.5	422.9	178.3	91.4	31.4	12.5	9.9	7.2	6.3	3.6
80°	234.8	208.8	182.8	72.6	32.3	14.3	8.1	5.4	4.5	3.6	1.8
82.5°	120.1	114.7	95.0	31.4	18.8	10.8	4.5	3.6	2.7	1.8	0.9
85°	59.1	60.9	50.2	9.9	10.8	6.3	0.9	0.9	0.0	0.0	0.0
87.5°	4.5	4.5	3.6	1.8	2.7	0.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1112.0	1124.5	1103.0	1116.5	1110.2	1112.9	1115.6	1108.4	1110.2	1135.3	1136.2
5°	890.7	914.9	905.9	918.4	939.9	929.2	939.0	937.3	939.0	942.6	958.8
7.5°	635.3	628.1	645.1	678.3	716.8	740.1	728.5	722.2	718.6	709.7	720.4
10°	479.4	475.8	471.3	481.2	506.3	532.2	546.6	522.4	508.9	491.9	485.7
12.5°	397.8	375.4	362.9	347.7	354.8	378.1	379.0	355.7	334.2	325.3	335.1
15°	313.6	298.4	276.0	254.5	243.7	261.6	246.4	224.0	196.2	192.6	191.8
17.5°	224.0	215.0	198.9	190.0	177.4	172.9	156.8	122.8	103.0	97.7	99.5
20°	152.3	145.2	144.3	136.2	130.8	127.2	101.3	78.9	72.6	73.5	74.4
22.5°	112.9	109.3	104.8	103.9	99.5	95.0	74.4	66.3	61.8	61.8	64.5
25°	92.3	90.5	86.0	84.2	82.4	76.2	62.7	56.5	54.7	52.9	55.6
27.5°	78.9	78.0	75.3	72.6	70.8	64.5	54.7	49.3	47.5	47.5	47.5
30°	70.8	70.8	67.2	61.8	61.8	54.7	46.6	43.0	41.2	41.2	40.3
32.5°	66.3	64.5	60.0	56.5	53.8	46.6	41.2	37.6	34.9	34.9	35.8
35°	53.8	53.8	52.9	50.2	46.6	39.4	34.9	31.4	29.6	28.7	29.6
37.5°	47.5	44.8	41.2	42.1	40.3	34.0	29.6	26.9	24.2	24.2	24.2
40°	43.0	40.3	36.7	34.0	33.2	30.5	26.0	21.5	18.8	17.9	17.9
42.5°	38.5	36.7	31.4	26.9	26.0	26.0	19.7	16.1	13.4	13.4	13.4
45°	35.8	33.2	28.7	23.3	18.8	19.7	16.1	11.6	9.9	9.0	9.0
47.5°	34.0	31.4	25.1	19.7	14.3	14.3	11.6	8.1	6.3	5.4	5.4
50°	31.4	28.7	22.4	16.1	10.8	9.0	7.2	4.5	2.7	1.8	1.8
52.5°	29.6	26.9	19.7	13.4	9.0	6.3	4.5	0.9	0.0	0.0	0.0
55°	26.9	23.3	17.0	10.8	7.2	3.6	0.9	0.0	0.0	0.0	0.0
57.5°	23.3	20.6	13.4	8.1	4.5	0.9	0.0	0.0	0.0	0.0	0.0
60°	19.7	17.0	10.8	6.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16.1	14.3	8.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13.4	10.8	6.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11.6	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.0	6.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.3	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1139.8	1166.6	1191.7	1198.9	1218.6	1273.3	1273.3	1299.3	1345.8	1362.9	1366.5
5°	961.4	990.1	995.5	1051.1	1077.0	1132.6	1169.3	1257.1	1310.0	1343.2	1363.8
7.5°	731.2	741.0	761.6	813.6	864.7	931.9	1001.8	1113.8	1207.0	1244.6	1314.5
10°	502.7	532.2	577.0	623.6	703.4	777.8	868.3	974.0	1088.7	1135.3	1195.3
12.5°	338.7	379.9	451.6	517.9	591.4	666.7	752.7	894.2	1024.2	1088.7	1148.7
15°	198.0	248.2	310.0	417.6	515.2	599.4	685.5	828.8	986.5	1069.9	1143.3
17.5°	100.4	115.6	166.7	259.9	388.9	526.9	655.0	837.8	1015.2	1117.4	1178.3
20°	75.3	79.7	94.1	138.0	266.1	435.5	626.3	851.2	1095.0	1219.5	1252.7
22.5°	65.4	69.0	75.3	89.6	149.6	333.3	586.0	884.4	1203.4	1320.8	1390.7
25°	55.6	59.1	64.5	73.5	95.9	226.7	536.7	919.3	1300.2	1448.0	1513.4
27.5°	48.4	51.1	56.5	63.6	78.0	144.3	451.6	965.9	1448.0	1602.1	1619.1
30°	41.2	43.9	48.4	56.5	66.3	102.1	331.5	972.2	1529.5	1669.3	1716.8
32.5°	35.8	36.7	42.1	49.3	55.6	80.6	233.0	978.5	1589.6	1756.2	1766.1
35°	29.6	31.4	36.7	41.2	48.4	63.6	176.5	947.1	1667.5	1845.8	1843.2
37.5°	24.2	26.9	30.5	34.0	39.4	53.8	140.7	888.9	1765.2	1984.7	1900.5
40°	18.8	21.5	25.1	29.6	33.2	48.4	105.7	801.1	1867.3	2052.8	1963.2
42.5°	13.4	15.2	18.8	23.3	29.6	40.3	76.2	697.1	1907.7	2132.6	2038.5
45°	9.9	11.6	14.3	19.7	30.5	32.3	52.9	602.1	1950.7	2167.5	2021.5
47.5°	5.4	7.2	10.8	17.0	26.9	24.2	37.6	517.0	2000.0	2198.9	2034.9
50°	1.8	2.7	6.3	17.9	21.5	18.8	29.6	471.3	2048.3	2205.2	2061.8
52.5°	0.0	0.0	3.6	18.8	16.1	14.3	26.0	453.4	2035.8	2224.9	2044.8
55°	0.0	0.0	0.9	8.1	9.0	10.8	21.5	452.5	2124.5	2231.1	2137.9
57.5°	0.0	0.0	0.0	2.7	5.4	9.0	18.8	423.8	2181.0	2387.0	2263.4
60°	0.0	0.0	0.0	0.9	3.6	6.3	14.3	398.7	2238.3	2456.9	2397.8
62.5°	0.0	0.0	0.0	0.0	0.9	2.7	9.9	360.2	2122.7	2451.6	2527.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	284.9	1909.5	2323.4	2456.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	197.1	1672.0	2162.1	2324.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.2	1349.4	1896.0	1971.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.1	963.2	1505.3	1617.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	595.9	1100.3	1238.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	386.2	833.3	939.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	206.1	522.4	607.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.6	317.2	365.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	192.6	219.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6	39.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1368.3	1394.2	1404.1	1388.9	1390.7	1359.3	1354.8	1310.9	1293.0	1296.6
5°	1431.0	1468.6	1489.2	1472.2	1433.7	1373.6	1319.0	1267.0	1234.7	1218.6
7.5°	1416.6	1458.8	1484.7	1500.9	1457.0	1360.2	1276.9	1179.2	1138.0	1138.9
10°	1337.8	1425.6	1478.5	1457.9	1437.2	1340.5	1211.4	1105.7	1069.0	1072.6
12.5°	1274.2	1371.8	1403.2	1419.3	1377.2	1300.2	1213.2	1092.3	1051.1	1026.0
15°	1234.7	1307.3	1309.1	1334.2	1317.2	1317.2	1232.1	1113.8	1077.9	1050.2
17.5°	1234.7	1250.9	1249.1	1258.0	1286.7	1320.8	1279.5	1200.7	1129.9	1125.4
20°	1262.5	1212.3	1200.7	1204.3	1228.5	1329.7	1384.4	1285.8	1241.0	1226.7
22.5°	1327.0	1216.8	1146.0	1133.5	1207.9	1328.8	1451.6	1420.2	1342.3	1330.6
25°	1415.7	1208.8	1131.7	1115.6	1172.0	1361.1	1543.9	1550.1	1479.4	1455.2
27.5°	1500.0	1244.6	1129.9	1126.3	1200.7	1353.9	1607.5	1654.1	1574.3	1554.6
30°	1528.6	1280.4	1163.1	1115.6	1211.4	1379.9	1605.7	1727.6	1675.6	1680.1
32.5°	1562.7	1316.3	1166.6	1147.8	1257.1	1422.0	1656.8	1845.8	1808.2	1755.3
35°	1612.9	1364.7	1200.7	1183.7	1289.4	1459.6	1667.5	1932.8	1926.5	1864.7
37.5°	1655.9	1412.2	1271.5	1274.2	1388.0	1520.6	1715.0	2039.4	2028.6	1986.5
40°	1686.3	1478.5	1381.7	1388.9	1474.0	1588.7	1799.2	2093.1	2172.9	2111.1
42.5°	1690.8	1537.6	1508.0	1565.4	1645.1	1694.4	1833.3	2129.9	2244.6	2204.3
45°	1707.8	1631.7	1714.1	1756.2	1821.6	1787.6	1831.5	2192.6	2250.0	2229.3
47.5°	1774.2	1802.8	1906.8	2034.9	2058.2	1946.2	1874.5	2202.5	2280.4	2277.7
50°	1843.2	1986.5	2132.6	2217.7	2247.3	2055.5	1914.8	2194.4	2320.7	2299.2
52.5°	1920.2	2146.0	2356.6	2461.4	2445.3	2176.5	1960.5	2259.8	2395.1	2387.9
55°	1968.6	2217.7	2500.8	2646.9	2634.4	2311.8	2105.7	2353.9	2492.8	2474.9
57.5°	2096.7	2334.2	2644.2	2712.3	2745.5	2489.2	2206.9	2508.0	2574.3	2594.0
60°	2202.5	2410.3	2681.8	2780.4	2792.1	2594.9	2384.4	2666.6	2678.3	2612.0
62.5°	2357.5	2439.9	2602.1	2690.8	2750.8	2655.0	2543.9	2751.7	2676.5	2672.0
65°	2471.3	2343.1	2453.4	2502.6	2541.2	2563.6	2704.2	2810.0	2643.3	2556.4
67.5°	2407.7	2160.3	2139.7	2142.4	2154.1	2289.4	2650.5	2667.5	2458.7	2387.0
70°	2119.1	1772.4	1744.6	1766.1	1707.8	1870.9	2432.7	2424.7	2169.3	2094.9
72.5°	1714.1	1292.1	1244.6	1274.2	1287.6	1460.5	2046.6	1838.7	1582.4	1524.2
75°	1362.0	947.1	799.3	870.9	916.6	1063.6	1598.5	1249.1	1104.8	1026.0
77.5°	1069.9	716.8	621.9	593.2	635.3	773.3	1163.1	655.9	578.8	542.1
80°	678.3	526.9	571.7	530.5	548.4	552.0	605.7	298.4	237.5	234.8
82.5°	408.6	360.2	428.3	235.7	429.2	383.5	251.8	135.3	120.1	120.1
85°	289.4	223.1	147.8	95.9	190.9	210.6	97.7	69.9	60.9	59.1
87.5°	145.2	69.0	33.2	21.5	24.2	39.4	11.6	5.4	5.4	4.5
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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