

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: P675925

Luminaire Tested: **CCW-SA-2A-850-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675925
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

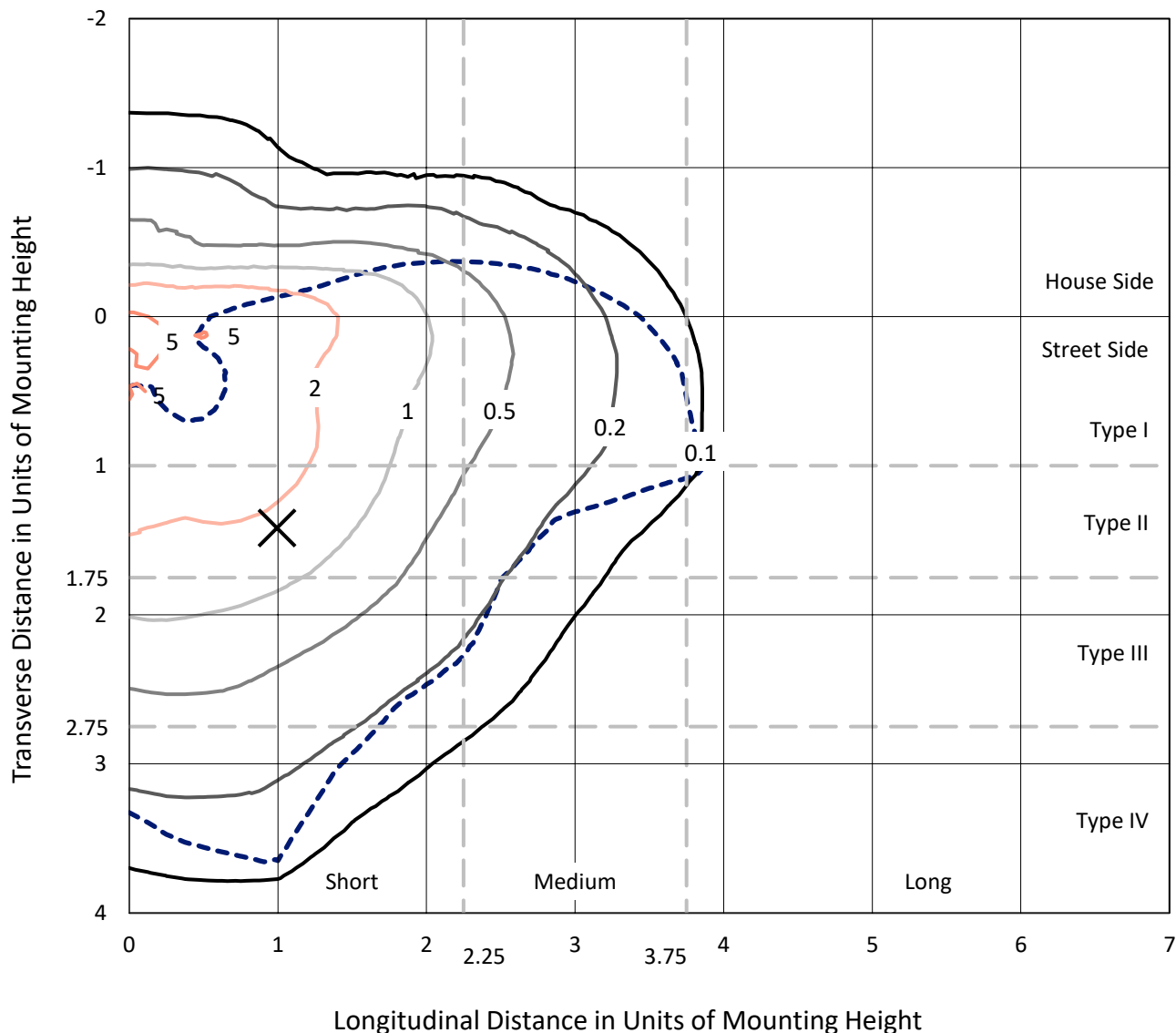
Lumens per Lamp: N/A
Luminaire Lumens: 3961.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

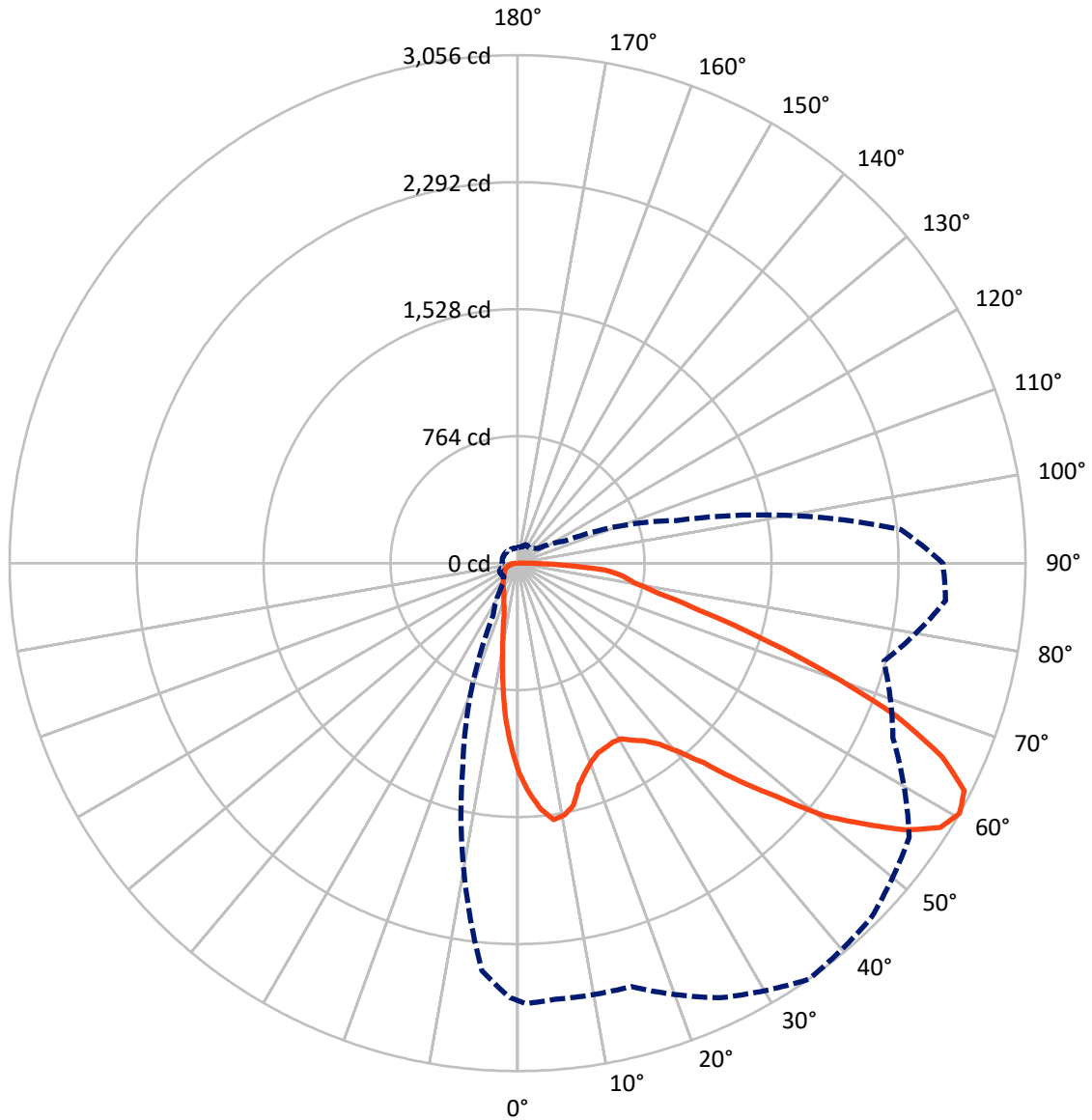
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 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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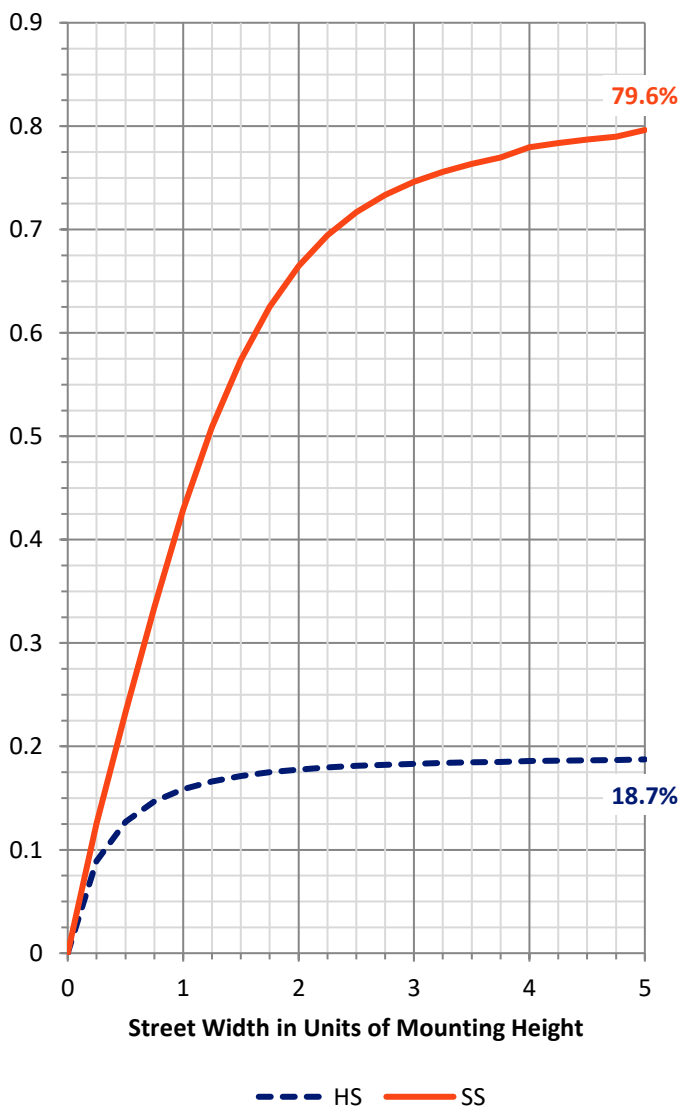
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	753.9	0.0	753.9
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3207.6	0.0	3207.6
	% Fixture	81.0	0.0	81.0
Total	Lumens	3961.6	0.0	3961.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	2.5
10°-20°	207.5	5.2
20°-30°	303.6	7.7
30°-40°	427.8	10.8
40°-50°	588.0	14.8
50°-60°	801.3	20.2
60°-70°	877.0	22.1
70°-80°	506.3	12.8
80°-90°	151.6	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°	3961.6	100.0
0°-180°	3961.6	100.0



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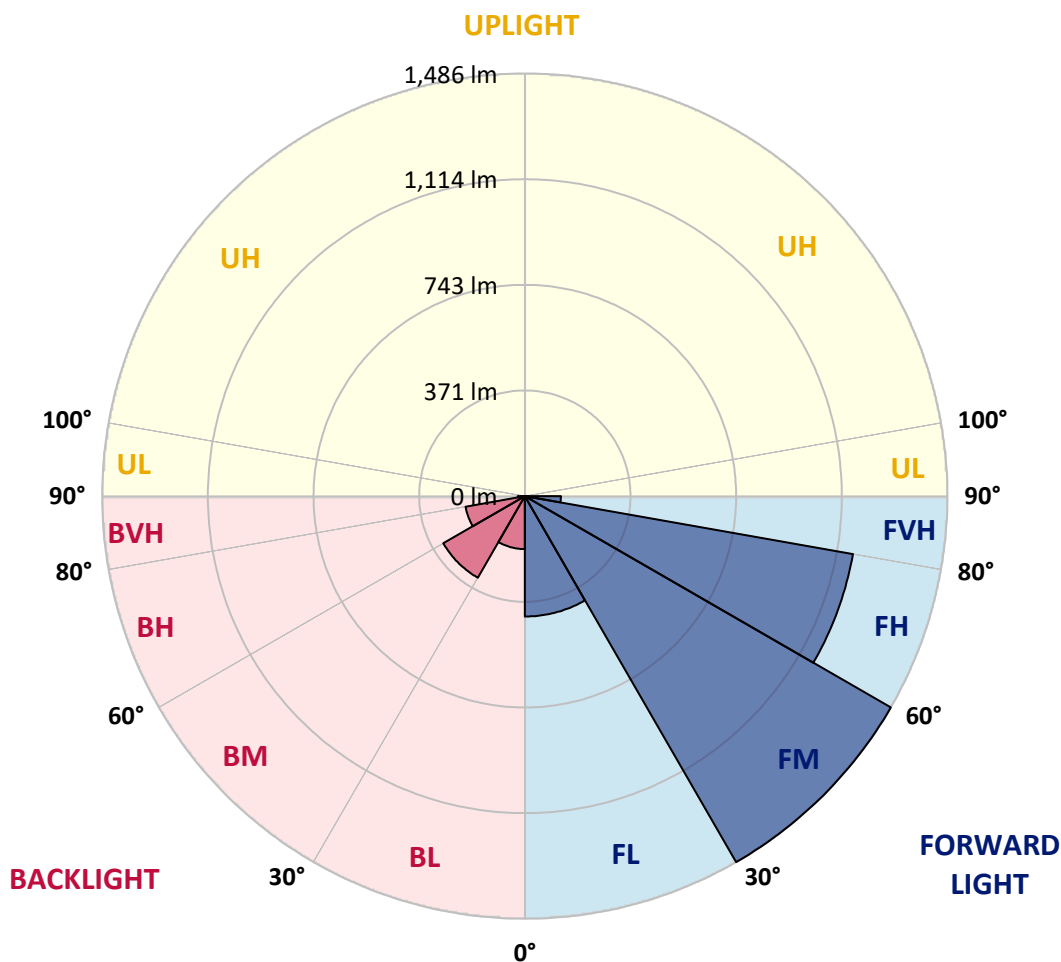
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.2	10.7			
FM (30°-60°)	1485.9	37.5			
FH (60°-80°)	1171.6	29.6			G1/1800
FVH (80°-90°)	126.9	3.2			G2/225
BL (0°-30°)	186.3	4.7	B1/500		
BM (30°-60°)	331.2	8.4	B1/1000		
BH (60°-80°)	211.8	5.3	B1/500		G1/500
BVH (80°-90°)	24.7	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°	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3
2.5°	1354.9	1349.7	1354.9	1374.3	1379.5	1388.3	1388.3	1376.0	1353.2	1342.6	1325.1
5°	1384.8	1376.0	1419.9	1460.4	1492.0	1488.5	1458.6	1434.0	1388.3	1319.8	1254.8
7.5°	1325.1	1333.8	1365.5	1470.9	1544.7	1558.8	1511.3	1462.1	1363.7	1268.8	1180.9
10°	1212.6	1224.9	1293.4	1402.4	1518.4	1541.2	1511.3	1451.6	1333.8	1216.1	1114.2
12.5°	1158.1	1186.2	1226.6	1358.4	1441.0	1495.5	1481.5	1442.8	1311.0	1172.2	1073.7
15°	1158.1	1165.1	1224.9	1335.6	1383.0	1384.8	1390.1	1397.1	1318.0	1191.5	1059.7
17.5°	1195.0	1214.3	1265.3	1333.8	1342.6	1321.5	1321.5	1351.4	1332.1	1246.0	1110.7
20°	1284.6	1277.6	1344.4	1372.5	1325.1	1272.3	1267.1	1318.0	1347.9	1304.0	1203.8
22.5°	1374.3	1405.9	1460.4	1397.1	1309.2	1238.9	1231.9	1295.2	1395.3	1404.1	1311.0
25°	1509.6	1541.2	1569.3	1492.0	1307.5	1230.2	1235.4	1284.6	1453.3	1546.5	1490.2
27.5°	1655.4	1674.8	1715.2	1595.7	1349.7	1219.6	1224.9	1298.7	1507.8	1639.6	1630.8
30°	1738.0	1759.1	1750.3	1615.0	1377.8	1226.6	1212.6	1318.0	1477.9	1639.6	1722.2
32.5°	1818.9	1806.6	1801.3	1646.6	1412.9	1270.6	1235.4	1358.4	1495.5	1666.0	1840.0
35°	1917.3	1899.7	1885.7	1708.2	1470.9	1312.8	1296.9	1411.2	1534.2	1720.5	1934.9
37.5°	2026.2	2026.2	1957.7	1753.8	1539.5	1381.3	1363.7	1486.7	1595.7	1753.8	2064.9
40°	2154.5	2159.8	2038.5	1815.4	1616.8	1490.2	1485.0	1585.1	1655.4	1803.1	2189.7
42.5°	2249.4	2252.9	2108.8	1838.2	1706.4	1641.4	1664.2	1743.3	1724.0	1847.0	2198.5
45°	2314.4	2296.9	2158.0	1903.2	1804.8	1868.1	1875.1	1898.0	1813.6	1873.3	2233.6
47.5°	2346.1	2342.6	2179.1	1978.8	2012.2	2098.3	2138.7	2107.1	1896.2	1845.2	2233.6
50°	2377.7	2347.8	2198.5	2082.5	2214.3	2388.3	2379.5	2321.5	2010.4	1880.4	2200.2
52.5°	2398.8	2372.4	2237.1	2175.6	2407.6	2604.4	2639.6	2532.4	2144.0	1945.4	2216.0
55°	2474.4	2453.3	2353.1	2302.1	2630.8	2832.9	2838.1	2688.8	2284.6	2052.6	2319.7
57.5°	2565.8	2578.1	2513.0	2481.4	2801.2	2999.8	2980.5	2804.8	2404.1	2182.6	2439.2
60°	2630.8	2650.1	2634.3	2637.8	2885.6	3056.1	3012.1	2876.8	2491.9	2281.1	2585.1
62.5°	2595.6	2634.3	2699.3	2685.3	2889.1	3015.6	2954.1	2781.9	2502.5	2409.3	2695.8
65°	2499.0	2502.5	2629.0	2706.3	2730.9	2806.5	2725.7	2583.3	2393.5	2488.4	2680.0
67.5°	2251.2	2279.3	2393.5	2544.7	2441.0	2458.6	2451.5	2245.9	2228.3	2433.9	2558.7
70°	1987.6	2006.9	2131.7	2309.2	2061.4	1978.8	1994.6	1841.7	1913.8	2265.2	2314.4
72.5°	1643.1	1655.4	1797.8	1954.2	1653.7	1506.1	1543.0	1418.2	1520.1	1982.3	1952.4
75°	1240.7	1263.5	1374.3	1558.8	1217.9	1123.0	1159.9	1108.9	1203.8	1632.6	1514.8
77.5°	882.2	864.6	1001.7	1219.6	915.6	859.4	862.9	871.7	973.6	1376.0	1087.8
80°	601.0	606.3	729.3	894.5	718.8	710.0	701.2	771.5	817.2	1089.6	790.8
82.5°	356.7	356.7	492.1	636.2	567.6	639.7	599.3	662.5	639.7	801.4	518.4
85°	166.9	166.9	253.1	458.7	439.3	527.2	448.1	500.8	472.7	558.8	233.7
87.5°	28.1	24.6	51.0	224.9	181.0	205.6	80.8	267.1	297.0	390.1	58.0
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°	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3
2.5°	1305.7	1293.4	1268.8	1237.2	1210.8	1177.4	1166.9	1144.0	1112.4	1108.9	1094.8
5°	1230.2	1188.0	1135.3	1070.2	1026.3	980.6	941.9	919.1	892.7	889.2	882.2
7.5°	1147.6	1094.8	1007.0	929.6	854.1	782.0	746.9	702.9	673.1	650.2	639.7
10°	1070.2	1021.0	912.1	806.6	739.8	692.4	650.2	604.5	567.6	539.5	529.0
12.5°	1019.3	961.3	843.5	743.4	694.2	639.7	592.2	543.0	495.6	458.7	439.3
15°	996.4	941.9	822.4	711.7	639.7	564.1	509.6	460.4	402.4	376.1	367.3
17.5°	1050.9	970.1	815.4	674.8	572.9	486.8	420.0	367.3	325.1	298.8	288.2
20°	1121.2	1021.0	827.7	630.9	509.6	413.0	339.2	282.9	254.8	235.5	233.7
22.5°	1210.8	1096.6	847.0	599.3	439.3	332.1	265.4	232.0	212.6	210.9	207.4
25°	1370.7	1233.7	878.7	557.1	383.1	274.1	226.7	207.4	198.6	193.3	196.8
27.5°	1507.8	1323.3	901.5	530.7	360.3	258.3	219.7	198.6	189.8	188.0	189.8
30°	1588.7	1405.9	894.5	481.5	314.6	246.0	233.7	226.7	209.1	195.1	195.1
32.5°	1662.5	1458.6	892.7	437.6	268.9	205.6	195.1	189.8	200.3	207.4	202.1
35°	1764.4	1541.2	887.5	413.0	249.5	189.8	172.2	158.2	151.1	147.6	152.9
37.5°	1873.3	1597.4	873.4	409.5	239.0	181.0	166.9	152.9	145.9	142.3	140.6
40°	1992.8	1657.2	857.6	391.9	233.7	175.7	161.7	149.4	140.6	135.3	133.6
42.5°	2070.2	1704.6	841.8	383.1	223.2	172.2	156.4	145.9	137.1	130.0	130.0
45°	2114.1	1760.9	826.0	374.3	210.9	174.0	156.4	142.3	131.8	128.3	124.8
47.5°	2133.4	1803.1	820.7	360.3	200.3	166.9	152.9	138.8	128.3	121.3	119.5
50°	2184.4	1892.7	840.0	349.7	188.0	159.9	161.7	137.1	126.5	117.7	116.0
52.5°	2214.3	1964.7	882.2	333.9	179.3	151.1	158.2	133.6	121.3	112.5	112.5
55°	2323.2	2084.2	927.9	321.6	168.7	138.8	145.9	126.5	112.5	107.2	107.2
57.5°	2462.1	2210.8	966.5	316.3	161.7	130.0	130.0	123.0	107.2	100.2	98.4
60°	2558.7	2314.4	989.4	312.8	154.6	121.3	116.0	123.0	101.9	94.9	93.1
62.5°	2569.3	2254.7	966.5	311.1	152.9	112.5	105.4	117.7	96.7	89.6	86.1
65°	2502.5	2133.4	903.3	304.0	151.1	103.7	98.4	101.9	89.6	84.4	80.8
67.5°	2368.9	1936.6	811.9	300.5	149.4	96.7	89.6	87.9	82.6	77.3	73.8
70°	2057.9	1680.0	704.7	284.7	145.9	91.4	80.8	79.1	73.8	70.3	68.5
72.5°	1727.5	1374.3	581.7	263.6	138.8	82.6	73.8	70.3	68.5	63.3	61.5
75°	1323.3	1057.9	465.7	233.7	121.3	73.8	65.0	61.5	59.8	56.2	54.5
77.5°	929.6	787.3	344.4	189.8	101.9	66.8	58.0	54.5	52.7	47.4	47.4
80°	630.9	551.8	233.7	131.8	79.1	54.5	51.0	47.4	43.9	40.4	40.4
82.5°	391.9	386.6	168.7	86.1	58.0	43.9	40.4	40.4	35.1	31.6	31.6
85°	179.3	237.2	117.7	59.8	43.9	33.4	33.4	31.6	28.1	22.8	22.8
87.5°	56.2	79.1	61.5	26.4	24.6	19.3	19.3	17.6	17.6	14.1	14.1
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°	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3
2.5°	1108.9	1107.1	1107.1	1100.1	1117.7	1117.7	1128.2	1119.4	1124.7	1126.5	1140.5
5°	880.4	894.5	905.0	926.1	938.4	943.7	943.7	957.8	952.5	963.0	984.1
7.5°	645.0	662.5	694.2	720.5	741.6	748.6	746.9	750.4	755.7	743.4	746.9
10°	521.9	509.6	520.2	544.8	564.1	587.0	569.4	567.6	572.9	567.6	578.2
12.5°	435.8	421.8	413.0	413.0	427.0	437.6	432.3	441.1	460.4	465.7	478.0
15°	353.2	340.9	333.9	325.1	339.2	342.7	348.0	360.3	374.3	381.3	395.4
17.5°	282.9	282.9	282.9	275.9	281.2	286.5	288.2	304.0	305.8	312.8	318.1
20°	232.0	237.2	246.0	249.5	254.8	254.8	251.3	260.1	253.1	258.3	261.8
22.5°	209.1	216.2	219.7	221.4	228.5	230.2	221.4	223.2	224.9	219.7	221.4
25°	196.8	200.3	196.8	198.6	200.3	196.8	198.6	202.1	200.3	203.9	202.1
27.5°	191.6	188.0	186.3	184.5	184.5	181.0	182.8	182.8	186.3	188.0	188.0
30°	191.6	186.3	179.3	174.0	174.0	168.7	172.2	175.7	177.5	181.0	181.0
32.5°	196.8	186.3	174.0	168.7	163.4	159.9	163.4	168.7	175.7	177.5	179.3
35°	156.4	161.7	159.9	152.9	151.1	151.1	149.4	149.4	144.1	144.1	142.3
37.5°	140.6	138.8	142.3	144.1	145.9	140.6	140.6	133.6	131.8	133.6	133.6
40°	131.8	131.8	131.8	137.1	138.8	135.3	130.0	126.5	126.5	126.5	128.3
42.5°	128.3	124.8	123.0	126.5	131.8	128.3	123.0	121.3	121.3	123.0	123.0
45°	123.0	121.3	119.5	117.7	124.8	119.5	117.7	116.0	116.0	116.0	117.7
47.5°	117.7	116.0	112.5	112.5	114.2	112.5	110.7	110.7	110.7	114.2	114.2
50°	114.2	112.5	109.0	109.0	109.0	109.0	107.2	107.2	107.2	109.0	110.7
52.5°	109.0	107.2	105.4	103.7	103.7	103.7	103.7	103.7	103.7	105.4	107.2
55°	103.7	101.9	100.2	100.2	101.9	101.9	100.2	101.9	100.2	101.9	103.7
57.5°	98.4	96.7	94.9	96.7	98.4	96.7	96.7	96.7	96.7	96.7	98.4
60°	91.4	91.4	91.4	91.4	94.9	94.9	94.9	94.9	91.4	93.1	94.9
62.5°	87.9	86.1	86.1	87.9	89.6	89.6	91.4	89.6	87.9	89.6	89.6
65°	80.8	80.8	80.8	82.6	82.6	84.4	84.4	84.4	82.6	84.4	84.4
67.5°	75.6	75.6	75.6	75.6	79.1	79.1	79.1	79.1	77.3	77.3	79.1
70°	66.8	68.5	66.8	70.3	73.8	72.1	73.8	73.8	72.1	70.3	73.8
72.5°	61.5	61.5	61.5	61.5	66.8	66.8	66.8	68.5	66.8	65.0	66.8
75°	54.5	54.5	54.5	56.2	59.8	59.8	59.8	59.8	59.8	58.0	58.0
77.5°	47.4	49.2	47.4	49.2	52.7	51.0	52.7	54.5	52.7	51.0	51.0
80°	40.4	40.4	40.4	42.2	43.9	43.9	43.9	45.7	43.9	42.2	42.2
82.5°	31.6	31.6	33.4	33.4	35.1	35.1	35.1	36.9	35.1	33.4	33.4
85°	24.6	24.6	24.6	26.4	26.4	28.1	28.1	29.9	29.9	28.1	28.1
87.5°	15.8	14.1	15.8	15.8	17.6	17.6	15.8	14.1	15.8	14.1	12.3
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°	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3	1265.3
2.5°	1154.6	1186.2	1209.1	1224.9	1247.7	1291.7	1309.2	1340.9	1349.7	1354.9
5°	992.9	1026.3	1075.5	1110.7	1151.1	1233.7	1296.9	1344.4	1365.5	1384.8
7.5°	778.5	822.4	873.4	919.1	985.9	1087.8	1170.4	1268.8	1305.7	1325.1
10°	608.0	648.5	704.7	760.9	854.1	940.2	1057.9	1147.6	1198.5	1212.6
12.5°	513.2	560.6	627.4	695.9	753.9	852.3	971.8	1101.9	1149.3	1158.1
15°	435.8	500.8	569.4	639.7	706.5	792.6	920.9	1079.0	1149.3	1158.1
17.5°	360.3	418.3	499.1	574.7	652.0	769.7	929.6	1098.4	1168.6	1195.0
20°	286.5	342.7	406.0	500.8	606.3	731.1	949.0	1163.4	1256.5	1284.6
22.5°	237.2	261.8	323.4	414.7	539.5	704.7	968.3	1265.3	1363.7	1374.3
25°	207.4	224.9	263.6	349.7	486.8	687.1	1014.0	1383.0	1509.6	1509.6
27.5°	193.3	200.3	226.7	304.0	449.9	671.3	1059.7	1513.1	1630.8	1655.4
30°	189.8	207.4	221.4	270.6	409.5	627.4	1101.9	1615.0	1736.3	1738.0
32.5°	186.3	182.8	193.3	235.5	360.3	581.7	1137.0	1718.7	1813.6	1818.9
35°	145.9	152.9	170.5	207.4	323.4	548.3	1154.6	1774.9	1912.0	1917.3
37.5°	137.1	145.9	159.9	191.6	298.8	520.2	1159.9	1883.9	2015.7	2026.2
40°	133.6	140.6	151.1	177.5	279.4	485.0	1170.4	1996.4	2168.6	2154.5
42.5°	126.5	135.3	145.9	170.5	263.6	458.7	1172.2	2057.9	2249.4	2249.4
45°	124.8	130.0	142.3	170.5	246.0	435.8	1144.0	2119.4	2342.6	2314.4
47.5°	117.7	128.3	138.8	165.2	224.9	413.0	1110.7	2151.0	2354.9	2346.1
50°	116.0	126.5	144.1	156.4	212.6	402.4	1103.6	2230.1	2379.5	2377.7
52.5°	112.5	123.0	149.4	149.4	196.8	388.4	1137.0	2265.2	2384.7	2398.8
55°	107.2	123.0	138.8	137.1	182.8	370.8	1173.9	2356.6	2477.9	2474.4
57.5°	103.7	119.5	131.8	124.8	166.9	358.5	1228.4	2444.5	2590.4	2565.8
60°	98.4	119.5	117.7	116.0	154.6	348.0	1274.1	2462.1	2615.0	2630.8
62.5°	94.9	124.8	103.7	107.2	144.1	342.7	1254.8	2330.3	2581.6	2595.6
65°	91.4	107.2	94.9	98.4	140.6	332.1	1179.2	2172.1	2437.5	2499.0
67.5°	84.4	87.9	87.9	91.4	137.1	307.5	1024.5	1887.4	2217.8	2251.2
70°	77.3	79.1	79.1	84.4	133.6	279.4	845.3	1632.6	1924.3	1987.6
72.5°	70.3	70.3	70.3	77.3	123.0	256.6	695.9	1254.8	1599.2	1643.1
75°	61.5	61.5	61.5	68.5	110.7	233.7	548.3	933.2	1177.4	1240.7
77.5°	54.5	54.5	52.7	61.5	96.7	189.8	395.4	659.0	829.5	882.2
80°	45.7	43.9	43.9	49.2	75.6	137.1	254.8	465.7	578.2	601.0
82.5°	36.9	35.1	33.4	36.9	54.5	86.1	158.2	325.1	370.8	356.7
85°	35.1	36.9	29.9	28.1	38.7	56.2	100.2	200.3	166.9	166.9
87.5°	14.1	12.3	12.3	10.5	19.3	21.1	43.9	36.9	28.1	28.1
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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