

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: P675823

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675823
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-730-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

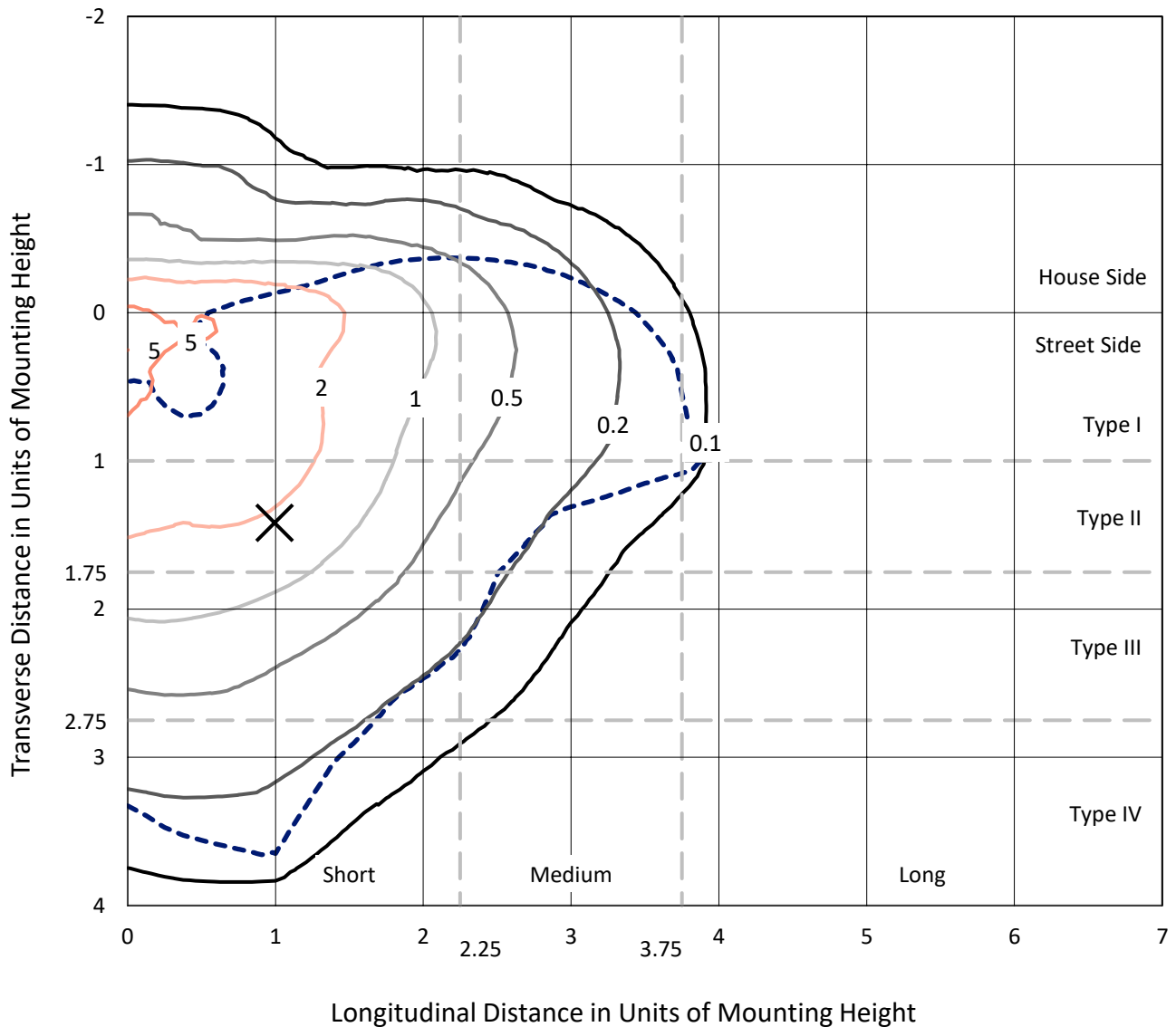
Lumens per Lamp: N/A
Luminaire Lumens: 4213.6 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

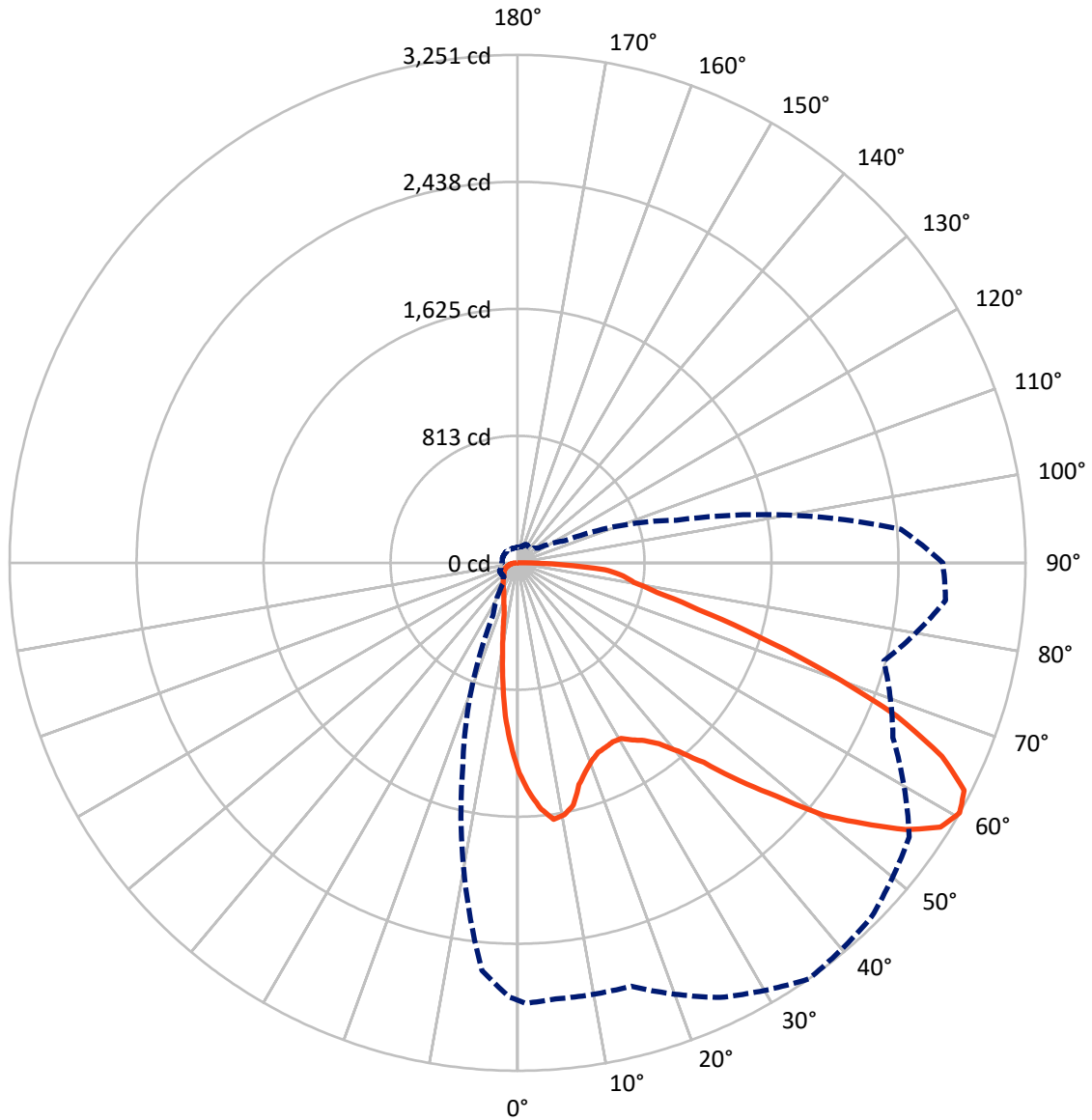
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 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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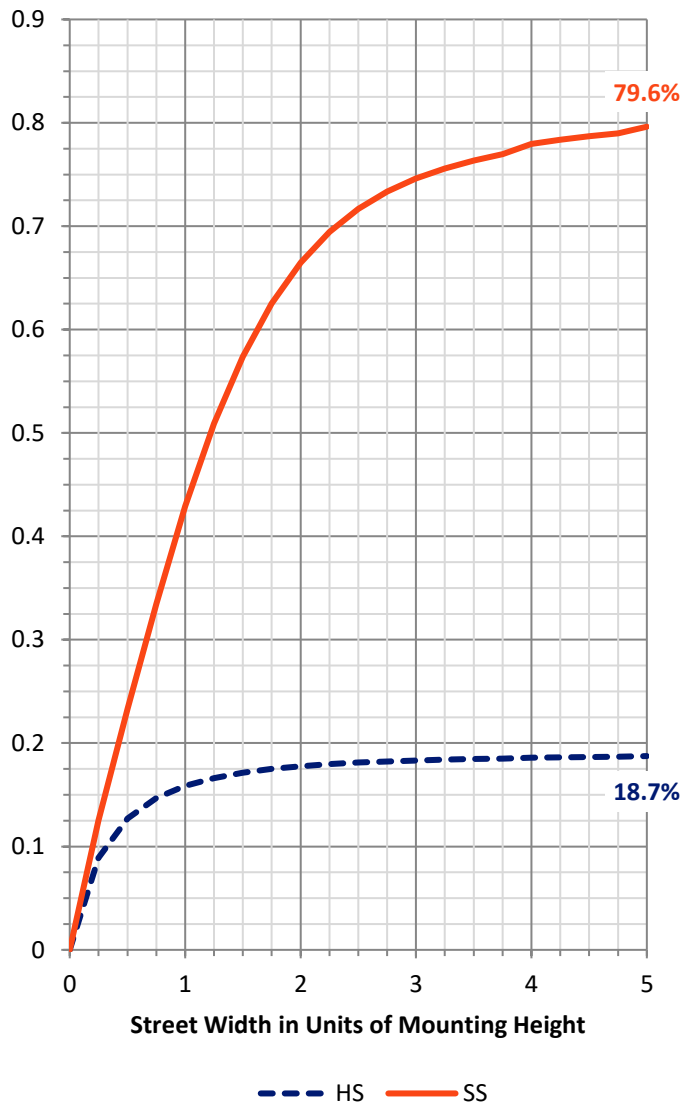
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	801.9	0.0	801.9
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3411.7	0.0	3411.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	4213.6	0.0	4213.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	2.5
10°-20°	220.7	5.2
20°-30°	323.0	7.7
30°-40°	455.0	10.8
40°-50°	625.4	14.8
50°-60°	852.3	20.2
60°-70°	932.8	22.1
70°-80°	538.5	12.8
80°-90°	161.3	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°	4213.6	100.0
0°-180°	4213.6	100.0

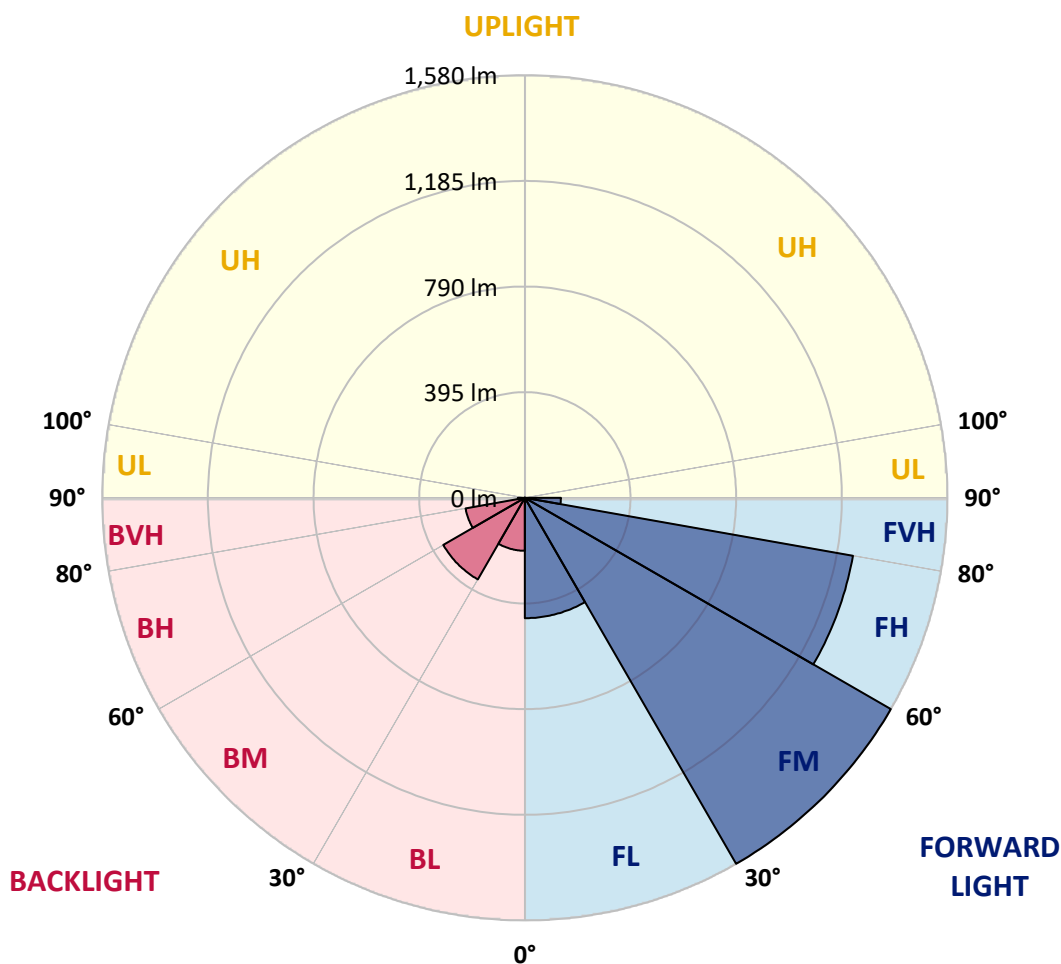


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.1	10.7			
FM (30°-60°)	1580.5	37.5			
FH (60°-80°)	1246.1	29.6			G1/1800
FVH (80°-90°)	135.0	3.2			G2/225
BL (0°-30°)	198.1	4.7	B1/500		
BM (30°-60°)	352.3	8.4	B1/1000		
BH (60°-80°)	225.2	5.3	B1/500		G1/500
BVH (80°-90°)	26.3	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°	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8
2.5°	1441.1	1435.5	1441.1	1461.7	1467.3	1476.6	1476.6	1463.6	1439.3	1428.0	1409.4
5°	1472.9	1463.6	1510.3	1553.3	1586.9	1583.2	1551.4	1525.2	1476.6	1403.7	1334.6
7.5°	1409.4	1418.7	1452.3	1564.5	1643.0	1658.0	1607.5	1555.2	1450.5	1349.5	1256.1
10°	1289.7	1302.8	1375.7	1491.6	1615.0	1639.3	1607.5	1543.9	1418.7	1293.5	1185.1
12.5°	1231.8	1261.7	1304.7	1444.9	1532.7	1590.7	1575.7	1534.6	1394.4	1246.7	1142.1
15°	1231.8	1239.3	1302.8	1420.6	1471.0	1472.9	1478.5	1486.0	1401.9	1267.3	1127.1
17.5°	1271.0	1291.6	1345.8	1418.7	1428.0	1405.6	1405.6	1437.4	1416.8	1325.2	1181.3
20°	1366.4	1358.9	1429.9	1459.8	1409.4	1353.3	1347.7	1401.9	1433.7	1386.9	1280.4
22.5°	1461.7	1495.3	1553.3	1486.0	1392.5	1317.8	1310.3	1377.6	1484.1	1493.5	1394.4
25°	1605.6	1639.3	1669.2	1586.9	1390.7	1308.4	1314.0	1366.4	1545.8	1644.9	1585.1
27.5°	1760.8	1781.3	1824.3	1697.2	1435.5	1297.2	1302.8	1381.3	1603.8	1743.9	1734.6
30°	1848.6	1871.0	1861.7	1717.8	1465.4	1304.7	1289.7	1401.9	1572.0	1743.9	1831.8
32.5°	1934.6	1921.5	1915.9	1751.4	1502.8	1351.4	1314.0	1444.9	1590.7	1772.0	1957.0
35°	2039.3	2020.6	2005.6	1816.8	1564.5	1396.3	1379.4	1500.9	1631.8	1829.9	2058.0
37.5°	2155.2	2155.2	2082.3	1865.4	1637.4	1469.2	1450.5	1581.3	1697.2	1865.4	2196.3
40°	2291.6	2297.2	2168.2	1930.9	1719.6	1585.1	1579.5	1686.0	1760.8	1917.8	2329.0
42.5°	2392.5	2396.3	2243.0	1955.2	1815.0	1745.8	1770.1	1854.2	1833.7	1964.5	2338.3
45°	2461.7	2443.0	2295.3	2024.3	1919.6	1986.9	1994.4	2018.7	1929.0	1992.5	2375.7
47.5°	2495.3	2491.6	2317.8	2104.7	2140.2	2231.8	2274.8	2241.1	2016.8	1962.6	2375.7
50°	2529.0	2497.2	2338.3	2215.0	2355.2	2540.2	2530.9	2469.2	2138.3	2000.0	2340.2
52.5°	2551.4	2523.4	2379.5	2314.0	2560.8	2770.1	2807.5	2693.5	2280.4	2069.2	2357.0
55°	2631.8	2609.4	2502.8	2448.6	2798.2	3013.1	3018.7	2859.8	2429.9	2183.2	2467.3
57.5°	2729.0	2742.1	2672.9	2639.3	2979.5	3190.7	3170.1	2983.2	2557.0	2321.5	2594.4
60°	2798.2	2818.7	2801.9	2805.6	3069.2	3250.5	3203.8	3059.8	2650.5	2426.2	2749.6
62.5°	2760.8	2801.9	2871.0	2856.1	3072.9	3207.5	3142.1	2958.9	2661.7	2562.6	2867.3
65°	2658.0	2661.7	2796.3	2878.5	2904.7	2985.1	2899.1	2747.7	2545.8	2646.7	2850.5
67.5°	2394.4	2424.3	2545.8	2706.6	2596.3	2615.0	2607.5	2388.8	2370.1	2588.8	2721.5
70°	2114.0	2134.6	2267.3	2456.1	2192.5	2104.7	2121.5	1958.9	2035.5	2409.4	2461.7
72.5°	1747.7	1760.8	1912.2	2078.5	1758.9	1601.9	1641.1	1508.4	1616.8	2108.4	2076.7
75°	1319.6	1343.9	1461.7	1658.0	1295.3	1194.4	1233.7	1179.4	1280.4	1736.5	1611.2
77.5°	938.3	919.6	1065.4	1297.2	973.8	914.0	917.8	927.1	1035.5	1463.6	1157.0
80°	639.3	644.9	775.7	951.4	764.5	755.1	745.8	820.6	869.2	1158.9	841.1
82.5°	379.4	379.4	523.4	676.6	603.7	680.4	637.4	704.7	680.4	852.3	551.4
85°	177.6	177.6	269.2	487.9	467.3	560.8	476.6	532.7	502.8	594.4	248.6
87.5°	29.9	26.2	54.2	239.3	192.5	218.7	86.0	284.1	315.9	415.0	61.7
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°	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8
2.5°	1388.8	1375.7	1349.5	1315.9	1287.9	1252.3	1241.1	1216.8	1183.2	1179.4	1164.5
5°	1308.4	1263.6	1207.5	1138.3	1091.6	1043.0	1001.9	977.6	949.5	945.8	938.3
7.5°	1220.6	1164.5	1071.0	988.8	908.4	831.8	794.4	747.7	715.9	691.6	680.4
10°	1138.3	1086.0	970.1	858.0	786.9	736.5	691.6	643.0	603.7	573.8	562.6
12.5°	1084.1	1022.4	897.2	790.7	738.3	680.4	629.9	577.6	527.1	487.9	467.3
15°	1059.8	1001.9	874.8	757.0	680.4	600.0	542.1	489.7	428.0	400.0	390.7
17.5°	1117.8	1031.8	867.3	717.8	609.4	517.8	446.7	390.7	345.8	317.8	306.5
20°	1192.5	1086.0	880.4	671.0	542.1	439.3	360.8	300.9	271.0	250.5	248.6
22.5°	1287.9	1166.4	900.9	637.4	467.3	353.3	282.2	246.7	226.2	224.3	220.6
25°	1458.0	1312.2	934.6	592.5	407.5	291.6	241.1	220.6	211.2	205.6	209.3
27.5°	1603.8	1407.5	958.9	564.5	383.2	274.8	233.6	211.2	201.9	200.0	201.9
30°	1689.7	1495.3	951.4	512.2	334.6	261.7	248.6	241.1	222.4	207.5	207.5
32.5°	1768.2	1551.4	949.5	465.4	286.0	218.7	207.5	201.9	213.1	220.6	215.0
35°	1876.6	1639.3	943.9	439.3	265.4	201.9	183.2	168.2	160.7	157.0	162.6
37.5°	1992.5	1699.1	929.0	435.5	254.2	192.5	177.6	162.6	155.1	151.4	149.5
40°	2119.6	1762.6	912.2	416.8	248.6	186.9	172.0	158.9	149.5	143.9	142.1
42.5°	2201.9	1813.1	895.3	407.5	237.4	183.2	166.4	155.1	145.8	138.3	138.3
45°	2248.6	1872.9	878.5	398.1	224.3	185.0	166.4	151.4	140.2	136.4	132.7
47.5°	2269.2	1917.8	872.9	383.2	213.1	177.6	162.6	147.7	136.4	129.0	127.1
50°	2323.4	2013.1	893.5	372.0	200.0	170.1	172.0	145.8	134.6	125.2	123.4
52.5°	2355.2	2089.7	938.3	355.1	190.7	160.7	168.2	142.1	129.0	119.6	119.6
55°	2471.0	2216.8	986.9	342.1	179.4	147.7	155.1	134.6	119.6	114.0	114.0
57.5°	2618.7	2351.4	1028.0	336.5	172.0	138.3	138.3	130.8	114.0	106.5	104.7
60°	2721.5	2461.7	1052.3	332.7	164.5	129.0	123.4	130.8	108.4	100.9	99.1
62.5°	2732.7	2398.1	1028.0	330.8	162.6	119.6	112.2	125.2	102.8	95.3	91.6
65°	2661.7	2269.2	960.8	323.4	160.7	110.3	104.7	108.4	95.3	89.7	86.0
67.5°	2519.6	2059.8	863.6	319.6	158.9	102.8	95.3	93.5	87.9	82.2	78.5
70°	2188.8	1786.9	749.5	302.8	155.1	97.2	86.0	84.1	78.5	74.8	72.9
72.5°	1837.4	1461.7	618.7	280.4	147.7	87.9	78.5	74.8	72.9	67.3	65.4
75°	1407.5	1125.2	495.3	248.6	129.0	78.5	69.2	65.4	63.6	59.8	57.9
77.5°	988.8	837.4	366.4	201.9	108.4	71.0	61.7	57.9	56.1	50.5	50.5
80°	671.0	586.9	248.6	140.2	84.1	57.9	54.2	50.5	46.7	43.0	43.0
82.5°	416.8	411.2	179.4	91.6	61.7	46.7	43.0	43.0	37.4	33.6	33.6
85°	190.7	252.3	125.2	63.6	46.7	35.5	35.5	33.6	29.9	24.3	24.3
87.5°	59.8	84.1	65.4	28.0	26.2	20.6	20.6	18.7	18.7	15.0	15.0
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°	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8
2.5°	1179.4	1177.6	1177.6	1170.1	1188.8	1188.8	1200.0	1190.7	1196.3	1198.1	1213.1
5°	936.5	951.4	962.6	985.1	998.1	1003.7	1003.7	1018.7	1013.1	1024.3	1046.7
7.5°	686.0	704.7	738.3	766.4	788.8	796.3	794.4	798.1	803.7	790.7	794.4
10°	555.1	542.1	553.3	579.4	600.0	624.3	605.6	603.7	609.4	603.7	615.0
12.5°	463.6	448.6	439.3	439.3	454.2	465.4	459.8	469.2	489.7	495.3	508.4
15°	375.7	362.6	355.1	345.8	360.8	364.5	370.1	383.2	398.1	405.6	420.6
17.5°	300.9	300.9	300.9	293.5	299.1	304.7	306.5	323.4	325.2	332.7	338.3
20°	246.7	252.3	261.7	265.4	271.0	271.0	267.3	276.6	269.2	274.8	278.5
22.5°	222.4	229.9	233.6	235.5	243.0	244.9	235.5	237.4	239.3	233.6	235.5
25°	209.3	213.1	209.3	211.2	213.1	209.3	211.2	215.0	213.1	216.8	215.0
27.5°	203.7	200.0	198.1	196.3	196.3	192.5	194.4	194.4	198.1	200.0	200.0
30°	203.7	198.1	190.7	185.0	185.0	179.4	183.2	186.9	188.8	192.5	192.5
32.5°	209.3	198.1	185.0	179.4	173.8	170.1	173.8	179.4	186.9	188.8	190.7
35°	166.4	172.0	170.1	162.6	160.7	160.7	158.9	158.9	153.3	153.3	151.4
37.5°	149.5	147.7	151.4	153.3	155.1	149.5	149.5	142.1	140.2	142.1	142.1
40°	140.2	140.2	140.2	145.8	147.7	143.9	138.3	134.6	134.6	134.6	136.4
42.5°	136.4	132.7	130.8	134.6	140.2	136.4	130.8	129.0	129.0	130.8	130.8
45°	130.8	129.0	127.1	125.2	132.7	127.1	125.2	123.4	123.4	123.4	125.2
47.5°	125.2	123.4	119.6	119.6	121.5	119.6	117.8	117.8	117.8	121.5	121.5
50°	121.5	119.6	115.9	115.9	115.9	115.9	114.0	114.0	114.0	115.9	117.8
52.5°	115.9	114.0	112.2	110.3	110.3	110.3	110.3	110.3	110.3	112.2	114.0
55°	110.3	108.4	106.5	106.5	108.4	108.4	106.5	108.4	106.5	108.4	110.3
57.5°	104.7	102.8	100.9	102.8	104.7	102.8	102.8	102.8	102.8	102.8	104.7
60°	97.2	97.2	97.2	97.2	100.9	100.9	100.9	100.9	97.2	99.1	100.9
62.5°	93.5	91.6	91.6	93.5	95.3	95.3	97.2	95.3	93.5	95.3	95.3
65°	86.0	86.0	86.0	87.9	87.9	89.7	89.7	89.7	87.9	89.7	89.7
67.5°	80.4	80.4	80.4	80.4	84.1	84.1	84.1	84.1	82.2	82.2	84.1
70°	71.0	72.9	71.0	74.8	78.5	76.6	78.5	78.5	76.6	74.8	78.5
72.5°	65.4	65.4	65.4	65.4	71.0	71.0	71.0	72.9	71.0	69.2	71.0
75°	57.9	57.9	57.9	59.8	63.6	63.6	63.6	63.6	63.6	61.7	61.7
77.5°	50.5	52.3	50.5	52.3	56.1	54.2	56.1	57.9	56.1	54.2	54.2
80°	43.0	43.0	43.0	44.9	46.7	46.7	46.7	48.6	46.7	44.9	44.9
82.5°	33.6	33.6	35.5	35.5	37.4	37.4	37.4	39.3	37.4	35.5	35.5
85°	26.2	26.2	26.2	28.0	28.0	29.9	29.9	31.8	31.8	29.9	29.9
87.5°	16.8	15.0	16.8	16.8	18.7	18.7	16.8	15.0	16.8	15.0	13.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8
2.5°	1228.0	1261.7	1286.0	1302.8	1327.1	1373.8	1392.5	1426.2	1435.5	1441.1
5°	1056.1	1091.6	1143.9	1181.3	1224.3	1312.2	1379.4	1429.9	1452.3	1472.9
7.5°	828.0	874.8	929.0	977.6	1048.6	1157.0	1244.9	1349.5	1388.8	1409.4
10°	646.7	689.7	749.5	809.4	908.4	1000.0	1125.2	1220.6	1274.8	1289.7
12.5°	545.8	596.3	667.3	740.2	801.9	906.5	1033.7	1172.0	1222.4	1231.8
15°	463.6	532.7	605.6	680.4	751.4	843.0	979.4	1147.7	1222.4	1231.8
17.5°	383.2	444.9	530.8	611.2	693.5	818.7	988.8	1168.2	1243.0	1271.0
20°	304.7	364.5	431.8	532.7	644.9	777.6	1009.4	1237.4	1336.5	1366.4
22.5°	252.3	278.5	343.9	441.1	573.8	749.5	1029.9	1345.8	1450.5	1461.7
25°	220.6	239.3	280.4	372.0	517.8	730.8	1078.5	1471.0	1605.6	1605.6
27.5°	205.6	213.1	241.1	323.4	478.5	714.0	1127.1	1609.4	1734.6	1760.8
30°	201.9	220.6	235.5	287.9	435.5	667.3	1172.0	1717.8	1846.7	1848.6
32.5°	198.1	194.4	205.6	250.5	383.2	618.7	1209.4	1828.1	1929.0	1934.6
35°	155.1	162.6	181.3	220.6	343.9	583.2	1228.0	1887.9	2033.7	2039.3
37.5°	145.8	155.1	170.1	203.7	317.8	553.3	1233.7	2003.8	2143.9	2155.2
40°	142.1	149.5	160.7	188.8	297.2	515.9	1244.9	2123.4	2306.6	2291.6
42.5°	134.6	143.9	155.1	181.3	280.4	487.9	1246.7	2188.8	2392.5	2392.5
45°	132.7	138.3	151.4	181.3	261.7	463.6	1216.8	2254.2	2491.6	2461.7
47.5°	125.2	136.4	147.7	175.7	239.3	439.3	1181.3	2287.9	2504.7	2495.3
50°	123.4	134.6	153.3	166.4	226.2	428.0	1173.8	2372.0	2530.9	2529.0
52.5°	119.6	130.8	158.9	158.9	209.3	413.1	1209.4	2409.4	2536.5	2551.4
55°	114.0	130.8	147.7	145.8	194.4	394.4	1248.6	2506.6	2635.5	2631.8
57.5°	110.3	127.1	140.2	132.7	177.6	381.3	1306.6	2600.0	2755.2	2729.0
60°	104.7	127.1	125.2	123.4	164.5	370.1	1355.2	2618.7	2781.3	2798.2
62.5°	100.9	132.7	110.3	114.0	153.3	364.5	1334.6	2478.5	2745.8	2760.8
65°	97.2	114.0	100.9	104.7	149.5	353.3	1254.2	2310.3	2592.5	2658.0
67.5°	89.7	93.5	93.5	97.2	145.8	327.1	1089.7	2007.5	2358.9	2394.4
70°	82.2	84.1	84.1	89.7	142.1	297.2	899.1	1736.5	2046.7	2114.0
72.5°	74.8	74.8	74.8	82.2	130.8	272.9	740.2	1334.6	1700.9	1747.7
75°	65.4	65.4	65.4	72.9	117.8	248.6	583.2	992.5	1252.3	1319.6
77.5°	57.9	57.9	56.1	65.4	102.8	201.9	420.6	700.9	882.2	938.3
80°	48.6	46.7	46.7	52.3	80.4	145.8	271.0	495.3	615.0	639.3
82.5°	39.3	37.4	35.5	39.3	57.9	91.6	168.2	345.8	394.4	379.4
85°	37.4	39.3	31.8	29.9	41.1	59.8	106.5	213.1	177.6	177.6
87.5°	15.0	13.1	13.1	11.2	20.6	22.4	46.7	39.3	29.9	29.9
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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