

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: P677242

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677242
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-722-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

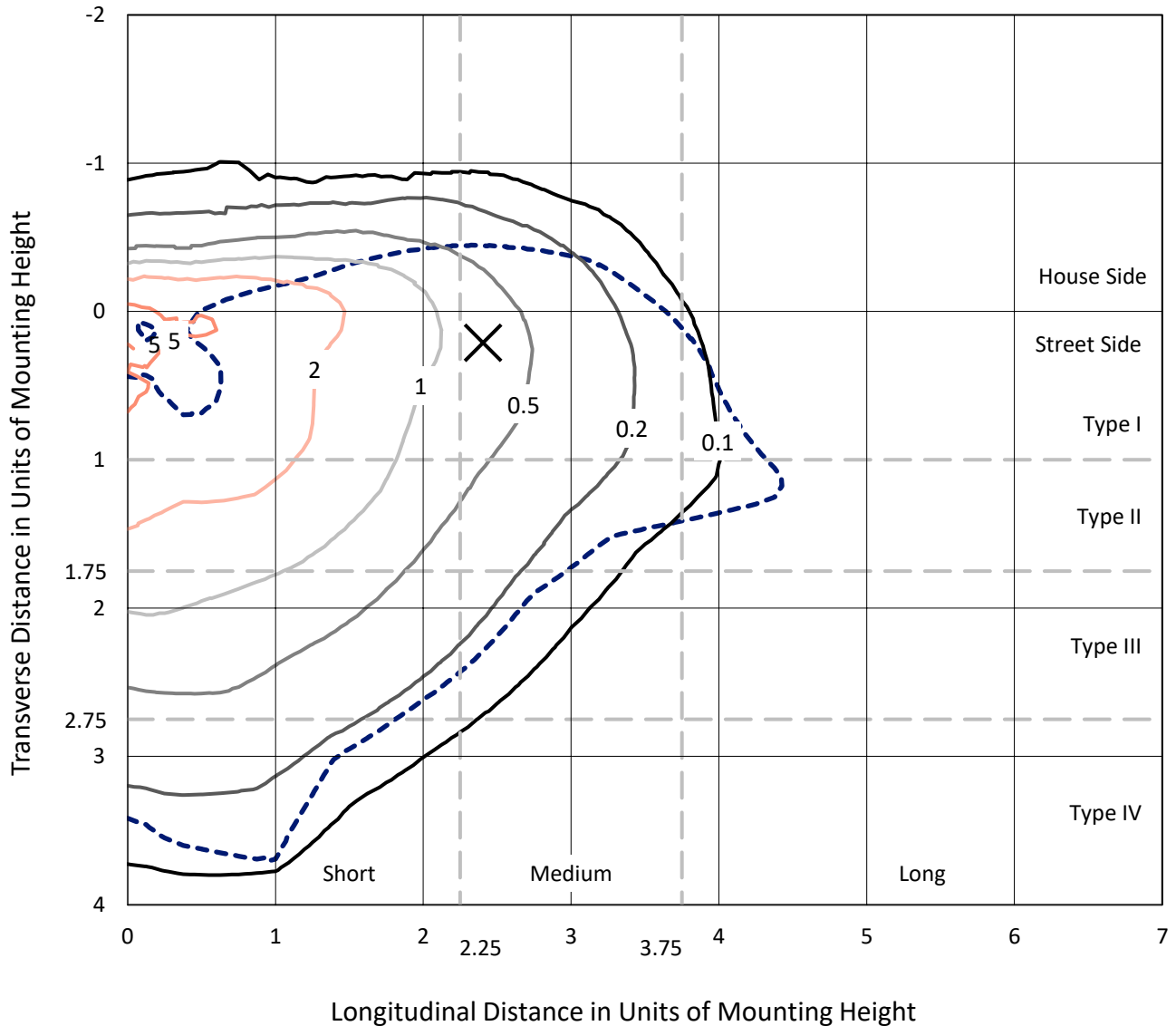
Lumens per Lamp: N/A
Luminaire Lumens: 3653.9 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

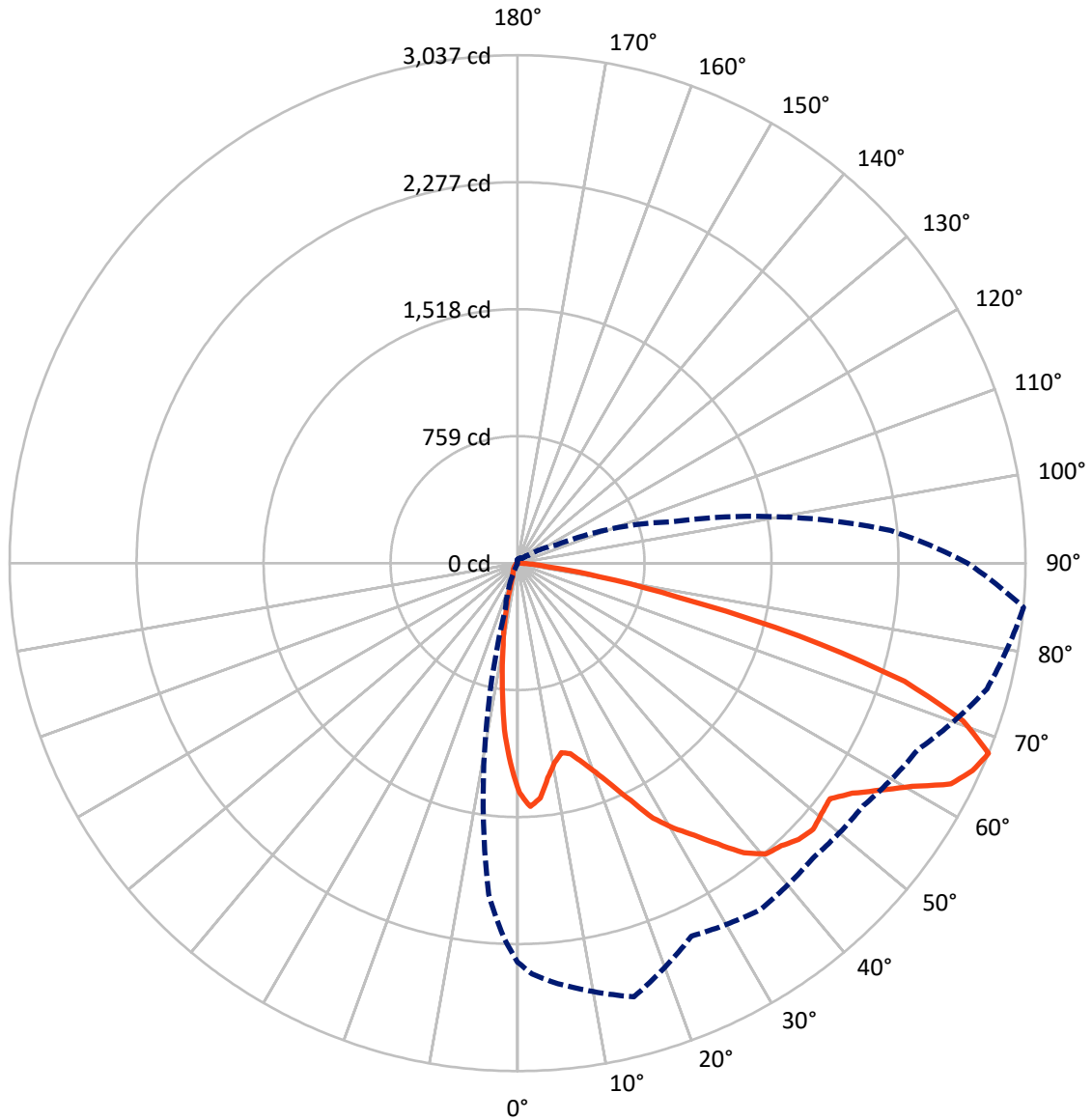
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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	634.5	0.0	634.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3019.5	0.0	3019.5
	% Fixture	82.6	0.0	82.6
Total	Lumens	3653.9	0.0	3653.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	2.9
10°-20°	204.7	5.6
20°-30°	283.2	7.8
30°-40°	400.3	11.0
40°-50°	545.0	14.9
50°-60°	721.8	19.8
60°-70°	838.0	22.9
70°-80°	474.6	13.0
80°-90°	82.0	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°	3653.9	100.0
0°-180°	3653.9	100.0



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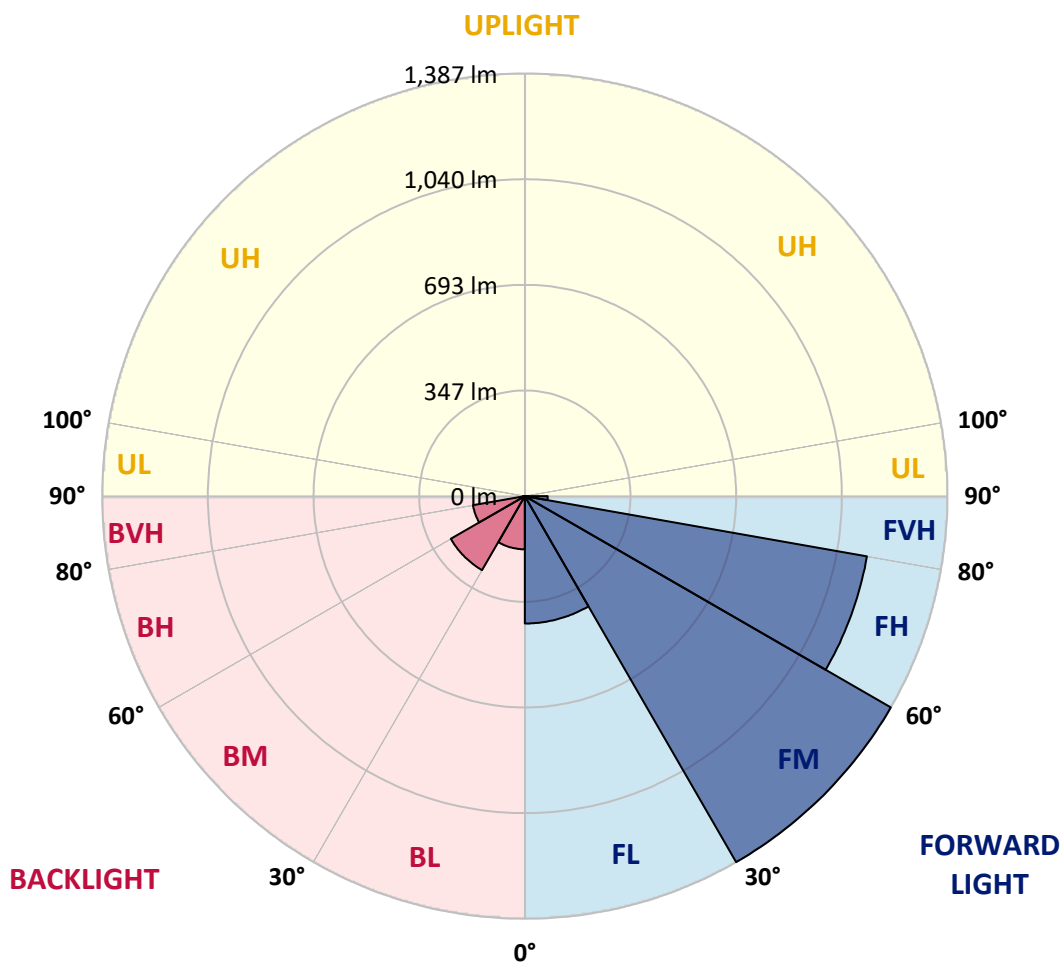
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.8	11.4			
FM (30°-60°)	1386.7	38.0			
FH (60°-80°)	1139.9	31.2			G1/1800
FVH (80°-90°)	75.1	2.1			G1/100
BL (0°-30°)	174.4	4.8	B1/500		
BM (30°-60°)	280.3	7.7	B1/1000		
BH (60°-80°)	172.8	4.7	B1/500		G1/500
BVH (80°-90°)	6.9	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°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1427.5	1457.8	1458.7	1472.4	1486.1	1486.1	1518.3	1510.5	1482.2	1477.3	1456.8
5°	1438.3	1449.0	1456.8	1526.1	1584.6	1578.8	1596.3	1584.6	1530.0	1459.7	1411.9
7.5°	1345.6	1357.3	1388.5	1506.6	1585.6	1611.9	1645.1	1571.9	1514.4	1387.5	1295.8
10°	1222.6	1245.1	1302.6	1437.3	1534.9	1618.8	1618.8	1560.2	1449.0	1325.1	1212.9
12.5°	1154.3	1199.2	1230.4	1367.0	1493.9	1551.4	1549.5	1518.3	1446.1	1289.9	1163.1
15°	1166.0	1178.7	1245.1	1351.4	1435.3	1432.4	1467.5	1457.8	1407.0	1321.2	1181.6
17.5°	1219.7	1239.2	1296.8	1351.4	1391.4	1379.7	1378.7	1425.6	1428.5	1373.9	1250.9
20°	1307.5	1365.1	1392.4	1409.0	1360.2	1310.4	1304.6	1369.9	1420.7	1441.2	1333.8
22.5°	1448.0	1486.1	1541.7	1456.8	1329.9	1267.5	1255.8	1328.0	1430.4	1521.2	1441.2
25°	1585.6	1614.9	1668.5	1559.2	1364.1	1258.7	1238.2	1300.7	1467.5	1632.4	1571.0
27.5°	1731.0	1756.3	1762.2	1634.4	1382.6	1241.2	1216.8	1300.7	1498.7	1691.0	1726.1
30°	1819.8	1850.0	1855.9	1700.7	1412.9	1255.8	1244.1	1306.5	1520.2	1740.7	1837.3
32.5°	1919.3	1927.1	1922.2	1712.4	1446.1	1298.7	1249.9	1345.6	1544.6	1800.3	1938.8
35°	2038.3	2052.0	2002.2	1766.1	1520.2	1326.0	1308.5	1393.4	1586.6	1827.6	2061.8
37.5°	2129.1	2172.0	2059.8	1786.6	1534.9	1383.6	1386.5	1492.9	1615.8	1860.8	2197.4
40°	2299.8	2227.6	2157.4	1856.8	1590.5	1481.2	1465.6	1595.3	1714.4	1882.2	2286.2
42.5°	2393.5	2355.5	2195.4	1863.7	1676.3	1615.8	1619.7	1711.5	1766.1	1942.7	2310.6
45°	2416.9	2376.9	2247.1	1868.6	1761.2	1774.9	1842.2	1859.8	1842.2	1982.7	2356.4
47.5°	2476.4	2389.6	2241.3	1933.9	1898.8	1951.5	2037.4	2075.4	1945.6	1968.1	2377.9
50°	2464.7	2415.0	2228.6	1961.3	2066.6	2206.2	2263.7	2248.1	2060.8	1937.8	2354.5
52.5°	2416.0	2362.3	2267.6	2035.4	2223.7	2392.5	2472.5	2433.5	2163.2	2006.1	2338.9
55°	2487.2	2446.2	2318.4	2135.9	2341.8	2556.5	2613.1	2583.8	2289.1	2069.6	2427.7
57.5°	2564.3	2555.5	2456.0	2254.0	2481.3	2725.3	2725.3	2689.2	2398.4	2161.3	2559.4
60°	2675.5	2695.0	2557.4	2332.0	2529.1	2715.5	2857.0	2815.0	2508.6	2322.3	2708.7
62.5°	2639.4	2701.8	2688.2	2499.9	2583.8	2763.3	2840.4	2871.6	2645.3	2518.4	2907.7
65°	2523.3	2589.6	2687.2	2610.1	2542.8	2647.2	2686.2	2780.9	2713.6	2702.8	2989.7
67.5°	2384.7	2456.9	2517.4	2684.3	2459.9	2529.1	2495.0	2525.2	2639.4	2904.8	3036.5
70°	2082.2	2151.5	2247.1	2519.4	2240.3	2177.9	2169.1	2154.5	2332.0	2832.6	2823.8
72.5°	1712.4	1744.6	1902.7	2048.1	1657.8	1646.1	1659.7	1643.2	1849.0	2564.3	2418.9
75°	1282.1	1314.3	1404.1	1572.9	1128.9	1061.6	1139.7	1216.8	1411.9	1990.5	1737.8
77.5°	964.0	1005.0	1061.6	1176.8	828.4	723.0	733.8	806.9	1020.6	1594.4	973.8
80°	625.5	620.6	729.9	809.9	623.5	643.0	615.7	669.4	739.6	852.8	497.6
82.5°	361.0	365.9	411.8	464.5	434.2	496.7	358.1	598.1	527.9	347.4	185.4
85°	203.0	211.7	253.7	322.0	272.2	182.5	149.3	296.6	331.8	142.5	89.8
87.5°	20.5	17.6	34.2	122.0	74.2	30.2	44.9	71.2	80.0	53.7	26.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1427.5	1427.5	1403.1	1362.1	1345.6	1316.3	1276.3	1289.0	1275.3	1225.5	1212.9
5°	1369.0	1322.1	1271.4	1209.0	1172.8	1098.7	1075.3	1033.3	1040.1	998.2	1000.1
7.5°	1247.0	1209.9	1124.1	1042.1	970.9	906.5	815.7	781.6	748.4	731.8	751.3
10°	1175.8	1106.5	989.4	882.1	787.4	729.9	669.4	622.5	579.6	547.4	540.6
12.5°	1124.1	1062.6	921.1	790.4	716.2	669.4	613.7	549.3	507.4	451.8	435.2
15°	1108.4	1033.3	884.0	754.3	682.0	605.0	541.5	478.1	423.5	364.9	344.4
17.5°	1162.1	1075.3	883.1	725.0	623.5	540.6	452.7	381.5	325.9	272.2	259.5
20°	1252.9	1120.2	911.3	707.4	567.9	456.6	357.1	285.9	223.4	188.3	179.5
22.5°	1356.3	1196.3	914.3	660.6	512.3	372.7	260.5	188.3	153.2	136.6	131.7
25°	1483.1	1318.2	949.4	622.5	446.9	283.0	185.4	144.4	123.9	114.2	112.2
27.5°	1587.5	1403.1	987.5	582.5	382.5	209.8	145.4	118.1	107.3	97.6	96.6
30°	1695.8	1500.7	998.2	558.1	326.9	172.7	124.9	104.4	92.7	87.8	86.8
32.5°	1790.5	1607.1	1032.3	518.1	274.2	152.2	113.2	93.7	85.9	78.1	77.1
35°	1912.5	1668.5	1048.9	496.7	254.7	137.6	103.4	85.9	74.2	69.3	67.3
37.5°	2043.2	1728.0	1059.7	480.1	238.1	128.8	97.6	81.0	70.3	63.4	61.5
40°	2165.2	1812.0	1044.1	459.6	225.4	118.1	93.7	75.1	65.4	58.5	55.6
42.5°	2258.9	1893.9	1039.2	440.1	211.7	114.2	88.8	72.2	61.5	53.7	52.7
45°	2311.5	1949.5	1005.0	424.5	201.0	116.1	86.8	68.3	58.5	51.7	47.8
47.5°	2298.9	1992.5	1013.8	419.6	186.4	108.3	85.9	65.4	53.7	47.8	44.9
50°	2369.1	2079.3	999.2	404.0	175.6	97.6	93.7	65.4	52.7	45.9	42.9
52.5°	2380.8	2158.4	1030.4	375.7	159.0	89.8	92.7	64.4	50.7	43.9	40.0
55°	2478.4	2250.1	1090.9	360.1	145.4	78.1	84.9	62.4	45.9	40.0	38.1
57.5°	2611.1	2440.3	1129.9	345.4	126.8	68.3	71.2	61.5	42.0	37.1	34.2
60°	2738.9	2516.5	1132.8	319.1	109.3	61.5	55.6	61.5	39.0	33.2	30.2
62.5°	2834.5	2516.5	1113.3	296.6	95.6	54.6	48.8	58.5	35.1	29.3	27.3
65°	2782.8	2449.1	1062.6	278.1	86.8	47.8	42.0	44.9	31.2	25.4	23.4
67.5°	2690.1	2239.3	950.4	255.6	85.9	42.0	36.1	33.2	27.3	22.4	20.5
70°	2541.8	1956.4	791.3	230.3	83.9	38.1	32.2	28.3	24.4	19.5	17.6
72.5°	2048.1	1615.8	649.8	215.6	82.0	33.2	27.3	24.4	20.5	16.6	14.6
75°	1418.7	1032.3	500.6	184.4	80.0	30.2	25.4	21.5	17.6	13.7	12.7
77.5°	850.9	689.9	323.0	138.6	52.7	24.4	21.5	16.6	14.6	11.7	10.7
80°	398.1	325.9	130.8	53.7	25.4	17.6	14.6	12.7	11.7	9.8	8.8
82.5°	156.1	137.6	63.4	31.2	20.5	13.7	11.7	10.7	9.8	7.8	6.8
85°	83.9	74.2	30.2	21.5	14.6	9.8	9.8	8.8	7.8	6.8	5.9
87.5°	18.5	13.7	12.7	12.7	10.7	7.8	7.8	6.8	5.9	4.9	3.9
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°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1206.0	1220.7	1197.2	1211.9	1191.4	1207.0	1209.0	1194.3	1198.2	1217.7	1226.5
5°	1027.5	1017.7	996.2	989.4	990.4	977.7	982.6	989.4	1000.1	1006.0	1023.6
7.5°	740.6	763.0	762.1	778.6	779.6	777.7	764.0	734.7	744.5	736.7	746.4
10°	529.8	539.6	558.1	568.9	588.4	577.6	546.4	534.7	528.9	527.9	537.6
12.5°	423.5	400.1	398.1	402.0	411.8	399.1	383.5	369.8	376.6	390.3	401.0
15°	327.9	308.3	283.0	279.1	281.0	275.2	258.6	241.0	245.9	259.5	267.4
17.5°	251.7	229.3	211.7	200.0	196.1	175.6	151.2	136.6	132.7	131.7	138.6
20°	169.8	165.9	162.9	148.3	148.3	119.0	98.6	87.8	87.8	89.8	90.7
22.5°	126.8	122.0	122.9	120.0	112.2	88.8	78.1	75.1	75.1	77.1	77.1
25°	110.3	103.4	101.5	100.5	92.7	76.1	68.3	65.4	65.4	67.3	67.3
27.5°	93.7	91.7	88.8	84.9	78.1	65.4	60.5	57.6	58.5	59.5	58.5
30°	85.9	81.0	77.1	77.1	69.3	58.5	54.6	52.7	50.7	52.7	53.7
32.5°	76.1	73.2	71.2	68.3	59.5	51.7	47.8	45.9	44.9	44.9	45.9
35°	65.4	65.4	63.4	59.5	51.7	46.8	42.0	40.0	39.0	40.0	40.0
37.5°	58.5	55.6	56.6	52.7	45.9	41.0	36.1	34.2	34.2	33.2	34.2
40°	54.6	49.8	46.8	44.9	41.0	35.1	31.2	29.3	28.3	28.3	28.3
42.5°	48.8	44.9	39.0	38.1	37.1	30.2	25.4	24.4	23.4	22.4	22.4
45°	45.9	40.0	35.1	30.2	30.2	25.4	21.5	19.5	18.5	17.6	18.5
47.5°	42.0	36.1	30.2	25.4	24.4	20.5	16.6	14.6	13.7	13.7	13.7
50°	40.0	32.2	26.3	21.5	18.5	16.6	12.7	10.7	9.8	9.8	9.8
52.5°	37.1	30.2	23.4	18.5	14.6	12.7	9.8	7.8	6.8	6.8	6.8
55°	33.2	27.3	20.5	15.6	12.7	9.8	6.8	4.9	3.9	3.9	3.9
57.5°	31.2	24.4	17.6	13.7	9.8	6.8	3.9	2.9	2.9	2.0	2.9
60°	28.3	21.5	14.6	10.7	7.8	4.9	2.9	1.0	1.0	1.0	1.0
62.5°	24.4	18.5	12.7	8.8	5.9	2.9	1.0	0.0	0.0	0.0	0.0
65°	20.5	14.6	9.8	6.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.6	12.7	7.8	4.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.6	10.7	5.9	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.7	8.8	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.7	6.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.8	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1239.2	1233.3	1262.6	1310.4	1334.8	1382.6	1394.3	1424.6	1416.8	1427.5
5°	1025.5	1037.2	1080.2	1150.4	1175.8	1245.1	1310.4	1375.8	1417.8	1438.3
7.5°	761.1	800.1	852.8	917.2	982.6	1073.3	1184.6	1260.7	1301.6	1345.6
10°	566.9	608.9	669.4	732.8	839.1	940.6	1051.9	1146.5	1181.6	1222.6
12.5°	445.9	511.3	581.5	649.8	713.3	809.9	947.5	1085.0	1123.1	1154.3
15°	310.3	390.3	490.8	579.6	668.4	752.3	894.8	1061.6	1113.3	1166.0
17.5°	171.7	235.2	350.3	475.2	605.9	734.7	912.3	1104.5	1182.6	1219.7
20°	99.5	124.9	206.9	355.2	527.9	696.7	921.1	1185.5	1289.0	1307.5
22.5°	82.0	90.7	117.1	222.5	432.3	672.3	966.0	1298.7	1404.1	1448.0
25°	70.3	77.1	90.7	133.7	326.9	620.6	994.3	1440.2	1537.8	1585.6
27.5°	62.4	69.3	80.0	98.6	222.5	549.3	1041.1	1568.0	1665.6	1731.0
30°	54.6	60.5	71.2	83.9	154.2	469.3	1081.1	1661.7	1799.3	1819.8
32.5°	48.8	53.7	61.5	72.2	114.2	356.1	1113.3	1758.3	1874.4	1919.3
35°	42.0	47.8	52.7	61.5	86.8	268.3	1093.8	1833.4	1984.7	2038.3
37.5°	37.1	41.0	45.9	51.7	73.2	209.8	1053.8	1923.2	2079.3	2129.1
40°	31.2	34.2	40.0	45.9	66.4	162.0	1007.9	2031.5	2212.0	2299.8
42.5°	26.3	29.3	33.2	42.9	54.6	120.0	915.3	2115.4	2319.4	2393.5
45°	20.5	24.4	30.2	42.9	43.9	88.8	819.6	2177.9	2379.8	2416.9
47.5°	15.6	19.5	29.3	37.1	35.1	61.5	706.4	2249.1	2442.3	2476.4
50°	11.7	15.6	33.2	32.2	29.3	46.8	635.2	2298.9	2446.2	2464.7
52.5°	7.8	11.7	27.3	24.4	24.4	41.0	615.7	2296.9	2456.0	2416.0
55°	5.9	8.8	15.6	17.6	21.5	36.1	598.1	2370.1	2458.9	2487.2
57.5°	3.9	6.8	10.7	13.7	18.5	31.2	562.0	2457.9	2549.6	2564.3
60°	2.0	4.9	7.8	10.7	15.6	27.3	511.3	2522.3	2659.9	2675.5
62.5°	1.0	2.9	5.9	8.8	12.7	21.5	458.6	2419.9	2612.1	2639.4
65°	0.0	2.0	3.9	5.9	7.8	15.6	372.7	2184.7	2422.8	2523.3
67.5°	0.0	0.0	2.0	3.9	4.9	11.7	281.0	1987.6	2248.1	2384.7
70°	0.0	0.0	1.0	1.0	2.9	8.8	179.5	1646.1	2007.1	2082.2
72.5°	0.0	0.0	0.0	0.0	1.0	5.9	104.4	1222.6	1572.9	1712.4
75°	0.0	0.0	0.0	0.0	0.0	4.9	52.7	786.5	1094.8	1282.1
77.5°	0.0	0.0	0.0	0.0	0.0	3.9	28.3	507.4	806.9	964.0
80°	0.0	0.0	0.0	0.0	0.0	1.0	16.6	294.7	516.2	625.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	144.4	308.3	361.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	77.1	154.2	203.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	10.7	20.5
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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