

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: P677272

Luminaire Tested: **CCW-SA-1B-735-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677272
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-735-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

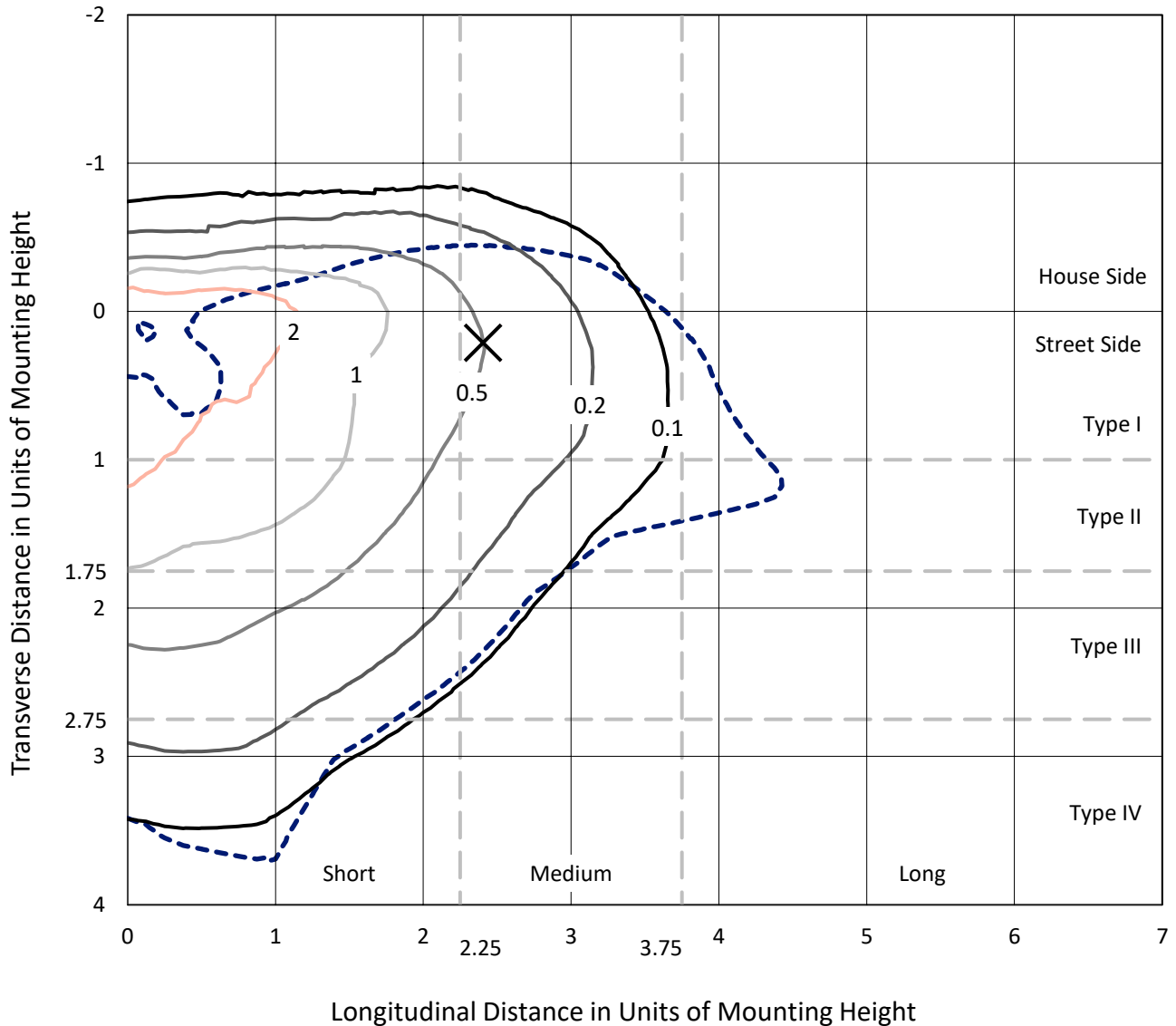
Lumens per Lamp: N/A
Luminaire Lumens: 2471.4 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

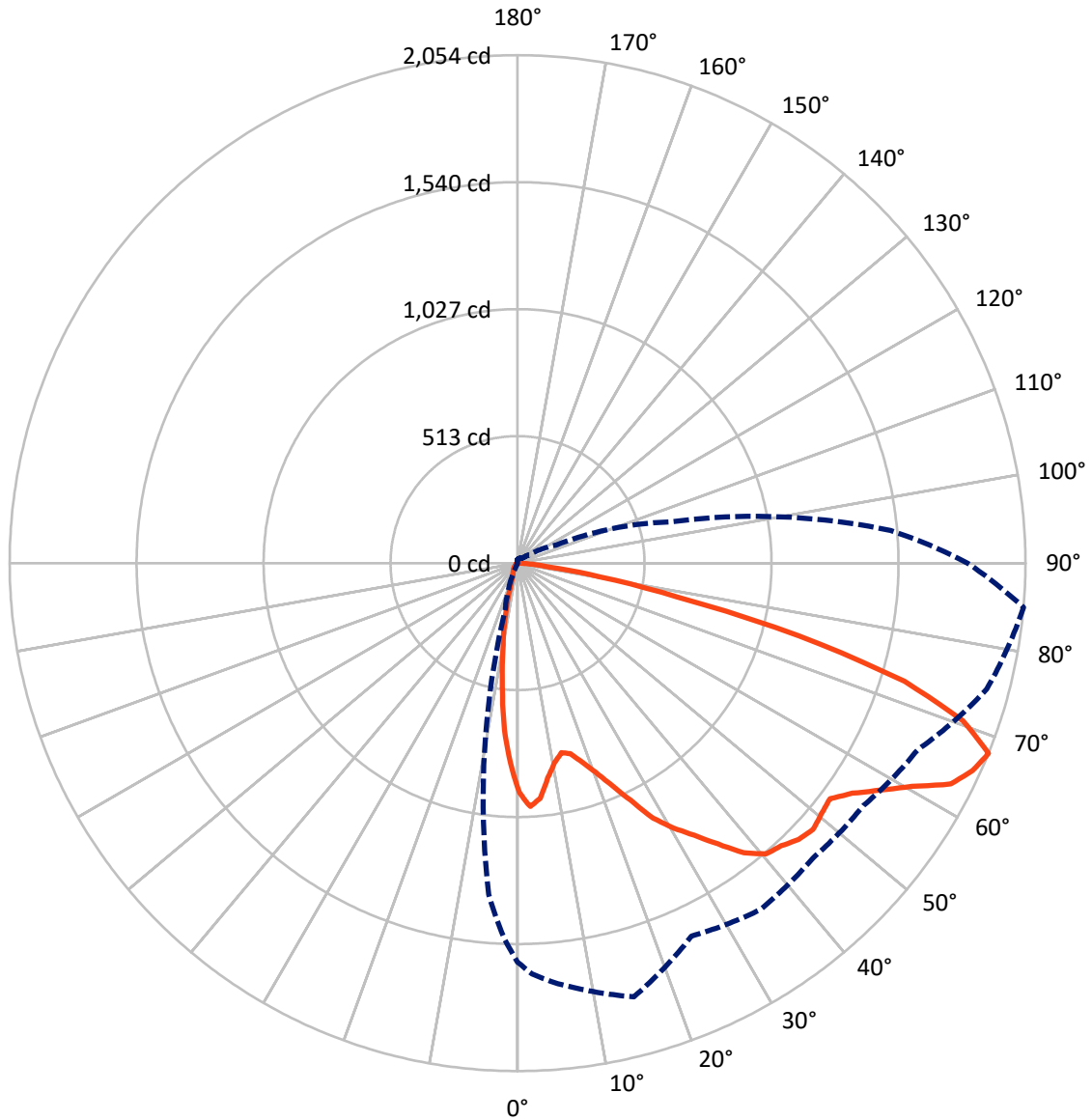
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 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	429.1	0.0	429.1
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2042.3	0.0	2042.3
	% Fixture	82.6	0.0	82.6
Total	Lumens	2471.4	0.0	2471.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	2.9
10°-20°	138.4	5.6
20°-30°	191.6	7.8
30°-40°	270.7	11.0
40°-50°	368.6	14.9
50°-60°	488.2	19.8
60°-70°	566.8	22.9
70°-80°	321.0	13.0
80°-90°	55.5	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°	2471.4	100.0
0°-180°	2471.4	100.0



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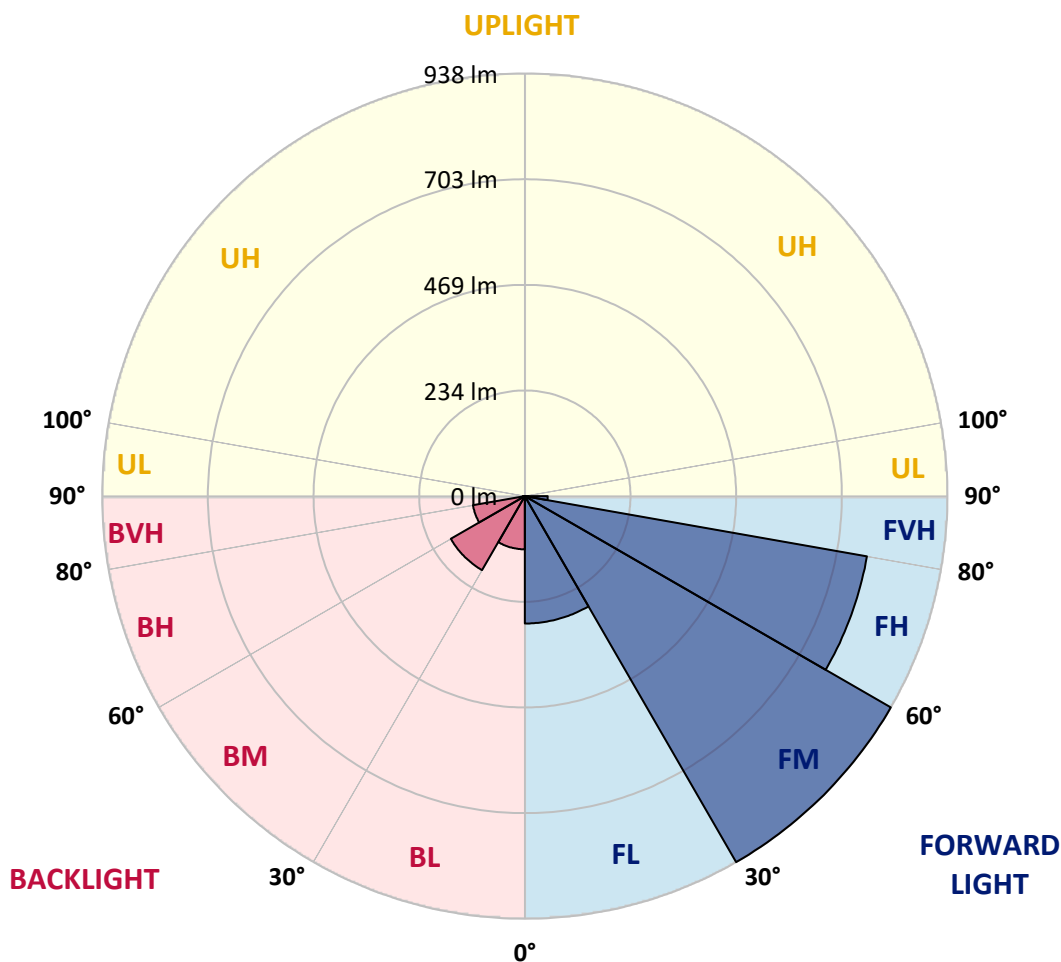
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.6	11.4			
FM (30°-60°)	937.9	38.0			
FH (60°-80°)	771.0	31.2			G1/1800
FVH (80°-90°)	50.8	2.1			G1/100
BL (0°-30°)	118.0	4.8	B1/500		
BM (30°-60°)	189.6	7.7	B0/220		
BH (60°-80°)	116.9	4.7	B1/500		G1/500
BVH (80°-90°)	4.7	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°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	965.5	986.0	986.6	995.9	1005.1	1005.1	1026.9	1021.6	1002.5	999.2	985.3
5°	972.8	980.0	985.3	1032.2	1071.8	1067.8	1079.7	1071.8	1034.8	987.3	955.0
7.5°	910.1	918.0	939.1	1019.0	1072.4	1090.3	1112.7	1063.2	1024.3	938.5	876.4
10°	826.9	842.1	881.1	972.1	1038.1	1094.9	1094.9	1055.3	980.0	896.2	820.3
12.5°	780.7	811.1	832.2	924.6	1010.4	1049.3	1048.0	1026.9	978.1	872.5	786.7
15°	788.7	797.2	842.1	914.0	970.8	968.8	992.6	986.0	951.7	893.6	799.2
17.5°	825.0	838.2	877.1	914.0	941.1	933.2	932.5	964.2	966.2	929.2	846.1
20°	884.4	923.3	941.8	953.0	920.0	886.3	882.4	926.6	960.9	974.8	902.2
22.5°	979.4	1005.1	1042.7	985.3	899.5	857.3	849.4	898.2	967.5	1028.9	974.8
25°	1072.4	1092.2	1128.5	1054.6	922.6	851.4	837.5	879.7	992.6	1104.1	1062.5
27.5°	1170.8	1187.9	1191.9	1105.4	935.2	839.5	823.0	879.7	1013.7	1143.7	1167.5
30°	1230.8	1251.3	1255.3	1150.3	955.6	849.4	841.5	883.7	1028.2	1177.4	1242.7
32.5°	1298.1	1303.4	1300.1	1158.2	978.1	878.4	845.4	910.1	1044.7	1217.6	1311.3
35°	1378.7	1387.9	1354.2	1194.5	1028.2	896.9	885.0	942.4	1073.1	1236.1	1394.5
37.5°	1440.0	1469.1	1393.2	1208.4	1038.1	935.8	937.8	1009.7	1092.9	1258.5	1486.2
40°	1555.5	1506.7	1459.2	1255.9	1075.7	1001.8	991.3	1079.0	1159.6	1273.1	1546.3
42.5°	1618.9	1593.2	1484.9	1260.5	1133.8	1092.9	1095.5	1157.6	1194.5	1314.0	1562.8
45°	1634.7	1607.7	1519.9	1263.8	1191.2	1200.5	1246.0	1257.9	1246.0	1341.0	1593.8
47.5°	1675.0	1616.2	1515.9	1308.0	1284.3	1319.9	1378.0	1403.7	1316.0	1331.1	1608.3
50°	1667.1	1633.4	1507.4	1326.5	1397.8	1492.2	1531.1	1520.6	1393.8	1310.7	1592.5
52.5°	1634.1	1597.8	1533.8	1376.7	1504.1	1618.2	1672.3	1645.9	1463.1	1356.9	1581.9
55°	1682.2	1654.5	1568.1	1444.7	1583.9	1729.1	1767.4	1747.6	1548.3	1399.8	1642.0
57.5°	1734.4	1728.4	1661.1	1524.5	1678.3	1843.3	1843.3	1818.9	1622.2	1461.8	1731.1
60°	1809.6	1822.8	1729.8	1577.3	1710.6	1836.7	1932.4	1904.0	1696.8	1570.7	1832.1
62.5°	1785.2	1827.4	1818.2	1690.8	1747.6	1869.0	1921.2	1942.3	1789.2	1703.4	1966.7
65°	1706.7	1751.5	1817.5	1765.4	1719.9	1790.5	1816.9	1880.9	1835.4	1828.1	2022.1
67.5°	1613.0	1661.8	1702.7	1815.6	1663.8	1710.6	1687.5	1708.0	1785.2	1964.7	2053.8
70°	1408.4	1455.2	1519.9	1704.0	1515.3	1473.0	1467.1	1457.2	1577.3	1915.9	1909.9
72.5°	1158.2	1180.0	1286.9	1385.3	1121.3	1113.4	1122.6	1111.4	1250.6	1734.4	1636.0
75°	867.2	889.0	949.7	1063.9	763.6	718.0	770.8	823.0	955.0	1346.3	1175.4
77.5°	652.0	679.8	718.0	795.9	560.3	489.0	496.3	545.8	690.3	1078.4	658.6
80°	423.0	419.7	493.7	547.8	421.7	434.9	416.4	452.7	500.3	576.8	336.6
82.5°	244.2	247.5	278.5	314.1	293.7	335.9	242.2	404.6	357.0	234.9	125.4
85°	137.3	143.2	171.6	217.8	184.1	123.4	101.0	200.6	224.4	96.4	60.7
87.5°	13.9	11.9	23.1	82.5	50.2	20.5	30.4	48.2	54.1	36.3	17.8
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°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	965.5	965.5	949.0	921.3	910.1	890.3	863.2	871.8	862.6	828.9	820.3
5°	925.9	894.3	859.9	817.7	793.3	743.1	727.3	698.9	703.5	675.1	676.5
7.5°	843.4	818.4	760.3	704.8	656.7	613.1	551.7	528.6	506.2	495.0	508.2
10°	795.3	748.4	669.2	596.6	532.6	493.7	452.7	421.1	392.0	370.2	365.6
12.5°	760.3	718.7	623.0	534.6	484.4	452.7	415.1	371.6	343.2	305.6	294.3
15°	749.7	698.9	597.9	510.2	461.3	409.2	366.3	323.4	286.4	246.8	233.0
17.5°	786.0	727.3	597.3	490.4	421.7	365.6	306.2	258.0	220.4	184.1	175.6
20°	847.4	757.6	616.4	478.5	384.1	308.9	241.5	193.4	151.1	127.4	121.4
22.5°	917.3	809.1	618.4	446.8	346.5	252.1	176.2	127.4	103.6	92.4	89.1
25°	1003.1	891.6	642.1	421.1	302.3	191.4	125.4	97.7	83.8	77.2	75.9
27.5°	1073.8	949.0	667.9	394.0	258.7	141.9	98.3	79.9	72.6	66.0	65.3
30°	1147.0	1015.0	675.1	377.5	221.1	116.8	84.5	70.6	62.7	59.4	58.7
32.5°	1211.0	1087.0	698.2	350.4	185.4	103.0	76.6	63.4	58.1	52.8	52.1
35°	1293.5	1128.5	709.5	335.9	172.3	93.1	70.0	58.1	50.2	46.9	45.5
37.5°	1382.0	1168.8	716.7	324.7	161.0	87.1	66.0	54.8	47.5	42.9	41.6
40°	1464.5	1225.6	706.2	310.8	152.5	79.9	63.4	50.8	44.2	39.6	37.6
42.5°	1527.8	1281.0	702.9	297.6	143.2	77.2	60.1	48.8	41.6	36.3	35.6
45°	1563.5	1318.6	679.8	287.1	136.0	78.5	58.7	46.2	39.6	35.0	32.3
47.5°	1554.9	1347.6	685.7	283.8	126.1	73.3	58.1	44.2	36.3	32.3	30.4
50°	1602.4	1406.4	675.8	273.2	118.8	66.0	63.4	44.2	35.6	31.0	29.0
52.5°	1610.3	1459.8	696.9	254.1	107.6	60.7	62.7	43.6	34.3	29.7	27.1
55°	1676.3	1521.9	737.8	243.5	98.3	52.8	57.4	42.2	31.0	27.1	25.7
57.5°	1766.1	1650.6	764.2	233.6	85.8	46.2	48.2	41.6	28.4	25.1	23.1
60°	1852.5	1702.0	766.2	215.8	73.9	41.6	37.6	41.6	26.4	22.4	20.5
62.5°	1917.2	1702.0	753.0	200.6	64.7	37.0	33.0	39.6	23.8	19.8	18.5
65°	1882.2	1656.5	718.7	188.1	58.7	32.3	28.4	30.4	21.1	17.2	15.8
67.5°	1819.5	1514.6	642.8	172.9	58.1	28.4	24.4	22.4	18.5	15.2	13.9
70°	1719.2	1323.2	535.2	155.8	56.8	25.7	21.8	19.1	16.5	13.2	11.9
72.5°	1385.3	1092.9	439.5	145.9	55.4	22.4	18.5	16.5	13.9	11.2	9.9
75°	959.6	698.2	338.6	124.7	54.1	20.5	17.2	14.5	11.9	9.2	8.6
77.5°	575.5	466.6	218.4	93.7	35.6	16.5	14.5	11.2	9.9	7.9	7.3
80°	269.3	220.4	88.4	36.3	17.2	11.9	9.9	8.6	7.9	6.6	5.9
82.5°	105.6	93.1	42.9	21.1	13.9	9.2	7.9	7.3	6.6	5.3	4.6
85°	56.8	50.2	20.5	14.5	9.9	6.6	6.6	5.9	5.3	4.6	4.0
87.5°	12.5	9.2	8.6	8.6	7.3	5.3	5.3	4.6	4.0	3.3	2.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	815.7	825.6	809.8	819.7	805.8	816.4	817.7	807.8	810.4	823.6	829.6
5°	694.9	688.3	673.8	669.2	669.9	661.3	664.6	669.2	676.5	680.4	692.3
7.5°	500.9	516.1	515.4	526.7	527.3	526.0	516.8	497.0	503.6	498.3	504.9
10°	358.4	365.0	377.5	384.8	398.0	390.7	369.6	361.7	357.7	357.0	363.6
12.5°	286.4	270.6	269.3	271.9	278.5	269.9	259.4	250.1	254.7	264.0	271.2
15°	221.7	208.5	191.4	188.7	190.1	186.1	174.9	163.0	166.3	175.6	180.8
17.5°	170.3	155.1	143.2	135.3	132.7	118.8	102.3	92.4	89.8	89.1	93.7
20°	114.8	112.2	110.2	100.3	100.3	80.5	66.7	59.4	59.4	60.7	61.4
22.5°	85.8	82.5	83.2	81.2	75.9	60.1	52.8	50.8	50.8	52.1	52.1
25°	74.6	70.0	68.6	68.0	62.7	51.5	46.2	44.2	44.2	45.5	45.5
27.5°	63.4	62.0	60.1	57.4	52.8	44.2	40.9	38.9	39.6	40.3	39.6
30°	58.1	54.8	52.1	52.1	46.9	39.6	37.0	35.6	34.3	35.6	36.3
32.5°	51.5	49.5	48.2	46.2	40.3	35.0	32.3	31.0	30.4	30.4	31.0
35°	44.2	44.2	42.9	40.3	35.0	31.7	28.4	27.1	26.4	27.1	27.1
37.5°	39.6	37.6	38.3	35.6	31.0	27.7	24.4	23.1	23.1	22.4	23.1
40°	37.0	33.7	31.7	30.4	27.7	23.8	21.1	19.8	19.1	19.1	19.1
42.5°	33.0	30.4	26.4	25.7	25.1	20.5	17.2	16.5	15.8	15.2	15.2
45°	31.0	27.1	23.8	20.5	20.5	17.2	14.5	13.2	12.5	11.9	12.5
47.5°	28.4	24.4	20.5	17.2	16.5	13.9	11.2	9.9	9.2	9.2	9.2
50°	27.1	21.8	17.8	14.5	12.5	11.2	8.6	7.3	6.6	6.6	6.6
52.5°	25.1	20.5	15.8	12.5	9.9	8.6	6.6	5.3	4.6	4.6	4.6
55°	22.4	18.5	13.9	10.6	8.6	6.6	4.6	3.3	2.6	2.6	2.6
57.5°	21.1	16.5	11.9	9.2	6.6	4.6	2.6	2.0	2.0	1.3	2.0
60°	19.1	14.5	9.9	7.3	5.3	3.3	2.0	0.7	0.7	0.7	0.7
62.5°	16.5	12.5	8.6	5.9	4.0	2.0	0.7	0.0	0.0	0.0	0.0
65°	13.9	9.9	6.6	4.6	2.6	0.7	0.0	0.0	0.0	0.0	0.0
67.5°	11.9	8.6	5.3	3.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.6	7.3	4.0	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.6	5.9	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.3	4.6	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.6	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	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°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	838.2	834.2	854.0	886.3	902.8	935.2	943.1	963.5	958.3	965.5
5°	693.6	701.5	730.6	778.1	795.3	842.1	886.3	930.5	958.9	972.8
7.5°	514.8	541.2	576.8	620.4	664.6	726.0	801.2	852.7	880.4	910.1
10°	383.4	411.8	452.7	495.6	567.6	636.2	711.4	775.5	799.2	826.9
12.5°	301.6	345.8	393.3	439.5	482.4	547.8	640.8	733.9	759.6	780.7
15°	209.9	264.0	332.0	392.0	452.1	508.8	605.2	718.0	753.0	788.7
17.5°	116.2	159.1	236.9	321.4	409.8	497.0	617.1	747.1	799.9	825.0
20°	67.3	84.5	139.9	240.2	357.0	471.2	623.0	801.9	871.8	884.4
22.5°	55.4	61.4	79.2	150.5	292.4	454.7	653.4	878.4	949.7	979.4
25°	47.5	52.1	61.4	90.4	221.1	419.7	672.5	974.1	1040.1	1072.4
27.5°	42.2	46.9	54.1	66.7	150.5	371.6	704.2	1060.6	1126.6	1170.8
30°	37.0	40.9	48.2	56.8	104.3	317.4	731.2	1123.9	1217.0	1230.8
32.5°	33.0	36.3	41.6	48.8	77.2	240.9	753.0	1189.3	1267.8	1298.1
35°	28.4	32.3	35.6	41.6	58.7	181.5	739.8	1240.1	1342.4	1378.7
37.5°	25.1	27.7	31.0	35.0	49.5	141.9	712.8	1300.8	1406.4	1440.0
40°	21.1	23.1	27.1	31.0	44.9	109.6	681.7	1374.0	1496.1	1555.5
42.5°	17.8	19.8	22.4	29.0	37.0	81.2	619.0	1430.8	1568.7	1618.9
45°	13.9	16.5	20.5	29.0	29.7	60.1	554.4	1473.0	1609.7	1634.7
47.5°	10.6	13.2	19.8	25.1	23.8	41.6	477.8	1521.2	1651.9	1675.0
50°	7.9	10.6	22.4	21.8	19.8	31.7	429.6	1554.9	1654.5	1667.1
52.5°	5.3	7.9	18.5	16.5	16.5	27.7	416.4	1553.6	1661.1	1634.1
55°	4.0	5.9	10.6	11.9	14.5	24.4	404.6	1603.1	1663.1	1682.2
57.5°	2.6	4.6	7.3	9.2	12.5	21.1	380.1	1662.4	1724.5	1734.4
60°	1.3	3.3	5.3	7.3	10.6	18.5	345.8	1706.0	1799.1	1809.6
62.5°	0.7	2.0	4.0	5.9	8.6	14.5	310.2	1636.7	1766.7	1785.2
65°	0.0	1.3	2.6	4.0	5.3	10.6	252.1	1477.7	1638.7	1706.7
67.5°	0.0	0.0	1.3	2.6	3.3	7.9	190.1	1344.3	1520.6	1613.0
70°	0.0	0.0	0.7	0.7	2.0	5.9	121.4	1113.4	1357.5	1408.4
72.5°	0.0	0.0	0.0	0.0	0.7	4.0	70.6	826.9	1063.9	1158.2
75°	0.0	0.0	0.0	0.0	0.0	3.3	35.6	531.9	740.5	867.2
77.5°	0.0	0.0	0.0	0.0	0.0	2.6	19.1	343.2	545.8	652.0
80°	0.0	0.0	0.0	0.0	0.0	0.7	11.2	199.3	349.1	423.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	97.7	208.5	244.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	52.1	104.3	137.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.3	13.9
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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