

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: P674308

Luminaire Tested: **CCP-SA-1F-827-U-SLR-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674308
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-827-U-SLR-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1200mA w/ SLR distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

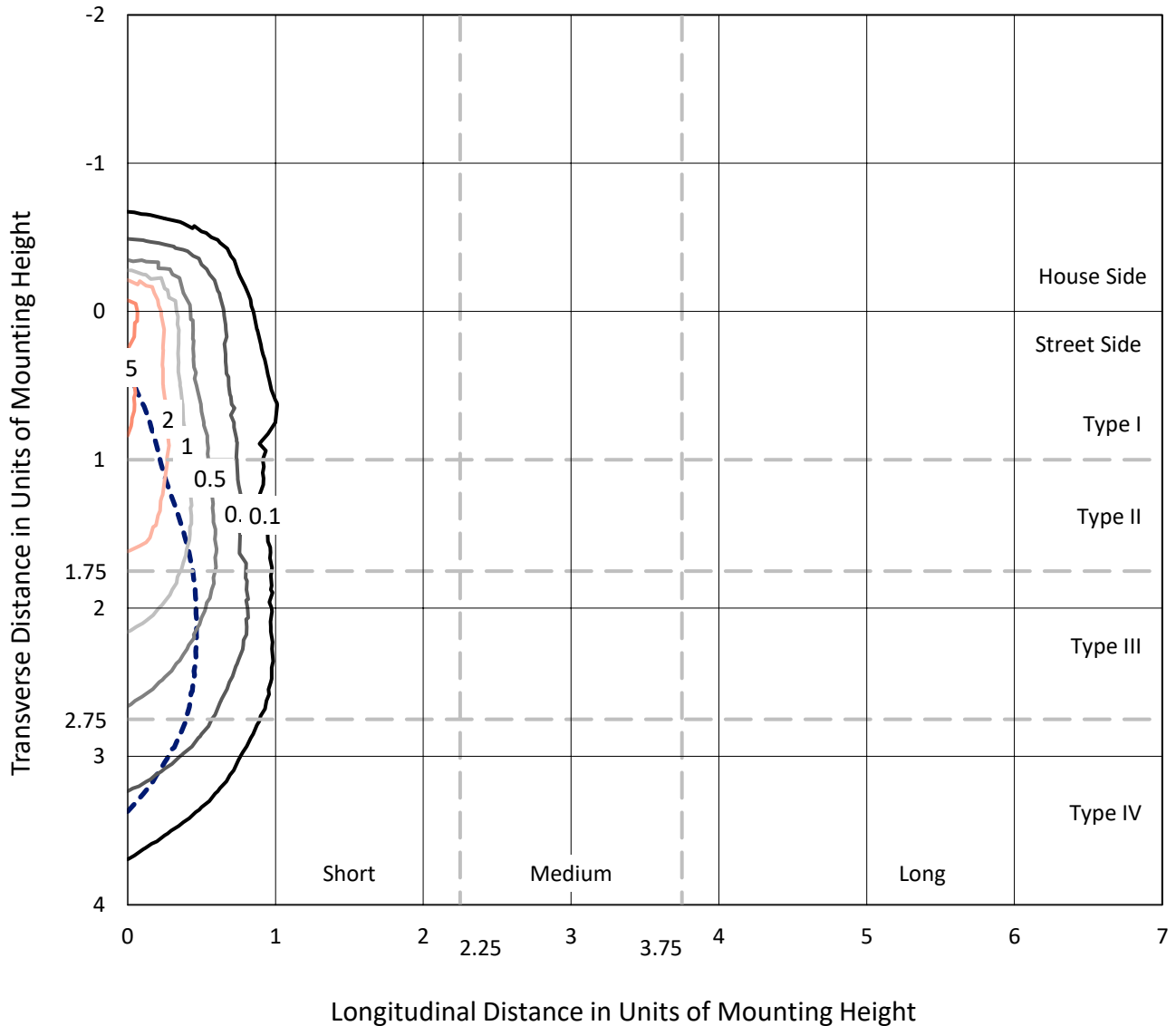
Lumens per Lamp: N/A
Luminaire Lumens: 3960.8 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

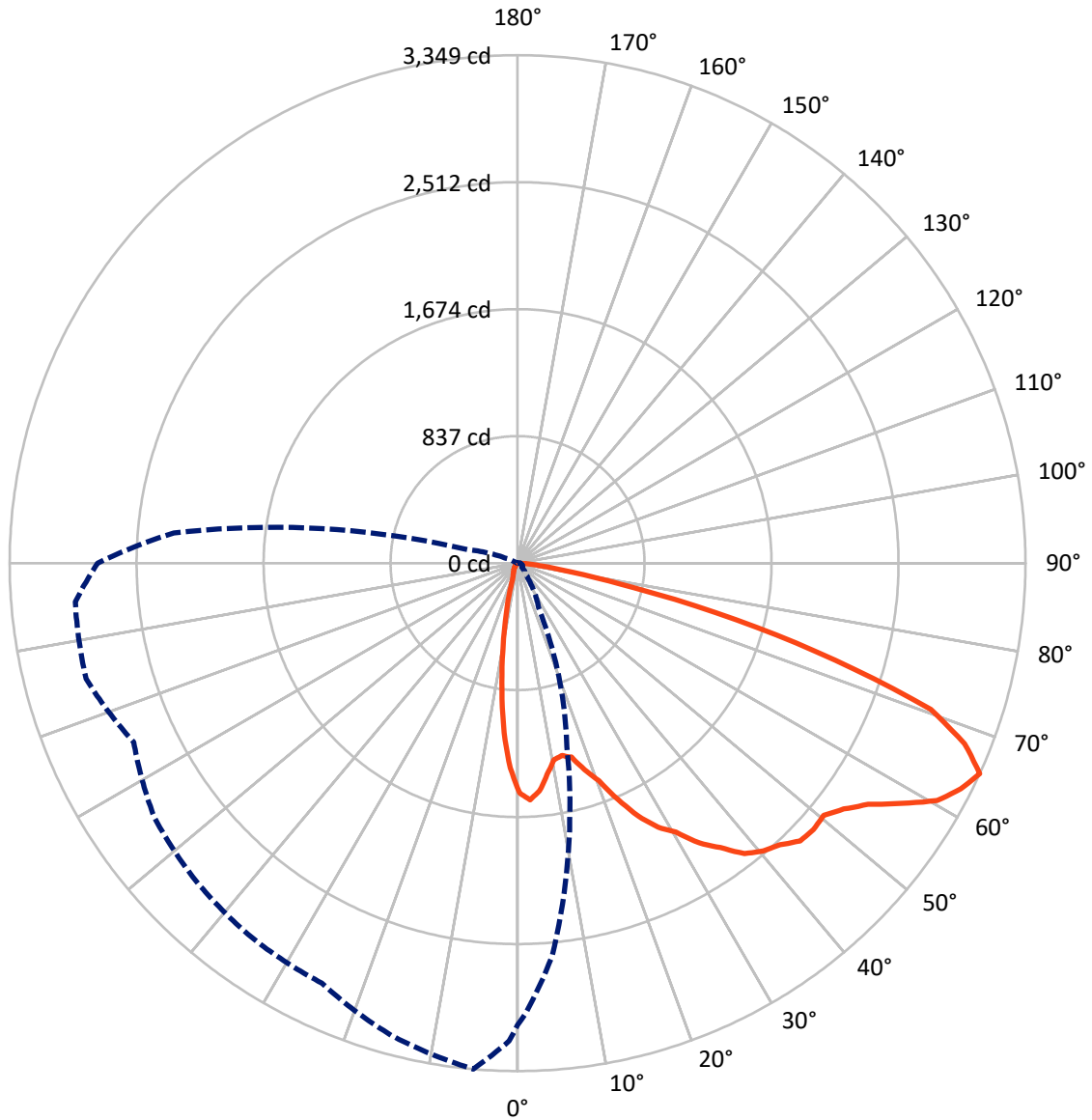
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 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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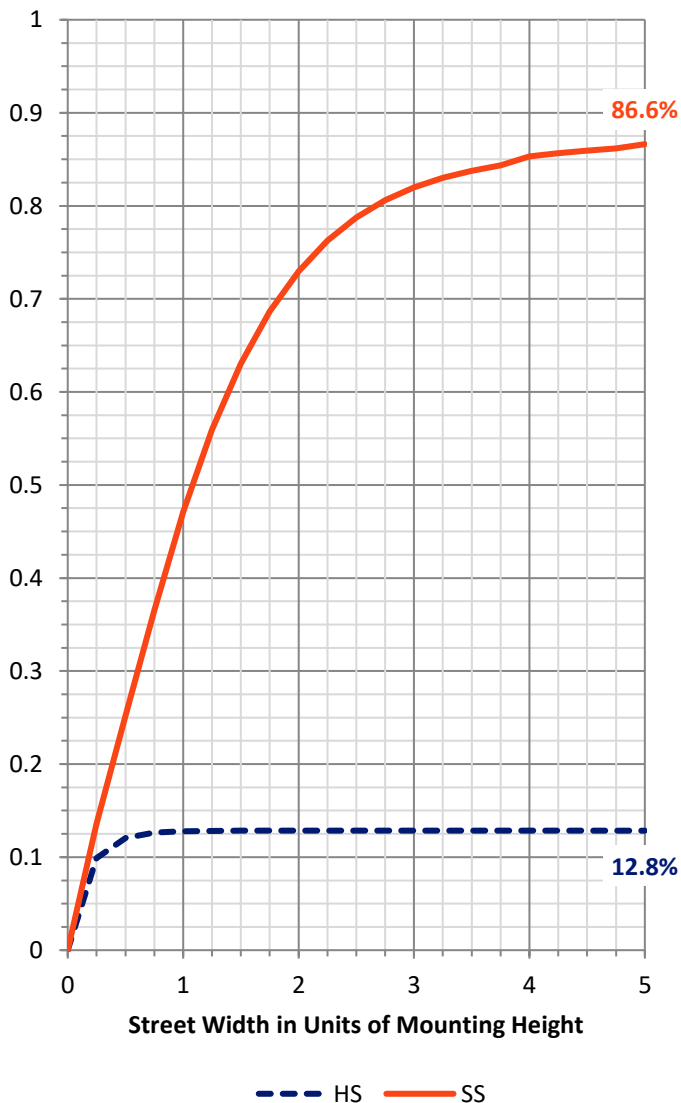
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.3	0.0	514.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3446.5	0.0	3446.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	3960.8	0.0	3960.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	2.9
10°-20°	222.1	5.6
20°-30°	309.3	7.8
30°-40°	439.5	11.1
40°-50°	609.5	15.4
50°-60°	830.5	21.0
60°-70°	913.1	23.1
70°-80°	448.8	11.3
80°-90°	73.3	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°	3960.8	100.0
0°-180°	3960.8	100.0



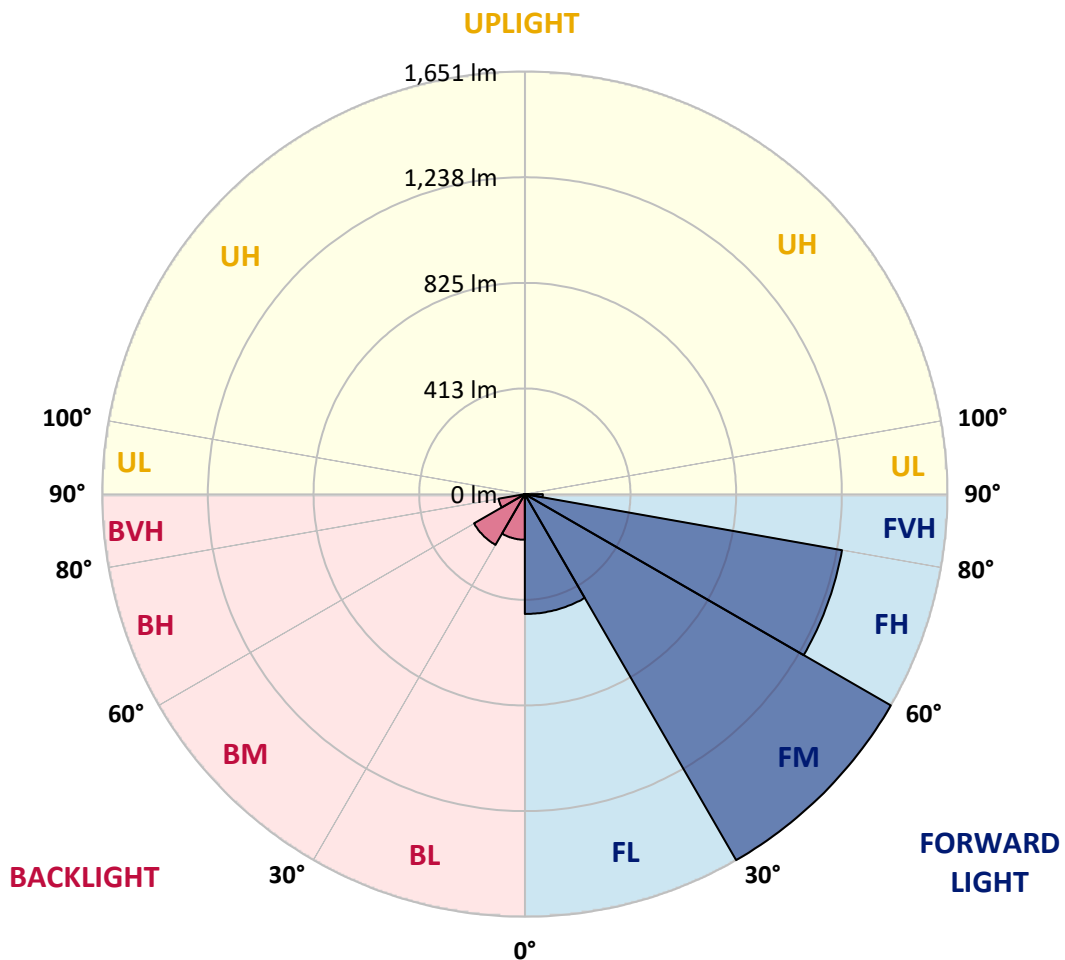
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.1	11.8			
FM (30°-60°)	1650.6	41.7			
FH (60°-80°)	1257.9	31.8			G1/1800
FVH (80°-90°)	70.0	1.8			G1/100
BL (0°-30°)	178.1	4.5	B1/500		
BM (30°-60°)	229.0	5.8	B1/1000		
BH (60°-80°)	103.9	2.6	B0/110		G0/110
BVH (80°-90°)	3.3	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°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1545.2	1563.3	1546.2	1486.4	1475.8	1446.9	1403.1	1399.9	1354.0	1359.4	1334.8
5°	1452.3	1470.4	1434.1	1355.1	1281.4	1222.7	1187.4	1124.4	1110.6	1079.6	1079.6
7.5°	1357.2	1356.2	1294.2	1228.0	1118.0	1010.2	961.1	870.3	816.9	788.1	760.3
10°	1278.2	1261.1	1222.7	1086.0	966.4	854.3	793.4	733.6	678.1	630.0	582.0
12.5°	1222.7	1233.4	1172.5	1024.1	869.2	791.3	726.1	663.1	596.9	542.5	489.1
15°	1251.5	1234.4	1162.9	1010.2	853.2	746.4	659.9	583.0	509.4	437.8	397.2
17.5°	1341.2	1297.4	1213.1	1010.2	820.1	678.1	573.4	482.7	403.6	339.6	289.4
20°	1461.9	1411.7	1320.9	1047.6	795.5	627.9	484.8	370.5	288.3	228.5	190.1
22.5°	1585.7	1546.2	1409.6	1062.5	766.7	560.6	382.3	268.0	192.2	153.8	134.5
25°	1734.2	1678.6	1529.1	1122.3	724.0	495.5	301.1	186.9	143.1	122.8	111.1
27.5°	1852.7	1843.1	1641.3	1158.6	692.0	442.1	238.1	148.4	118.5	103.6	96.1
30°	2002.2	1949.9	1778.0	1231.2	655.7	381.2	198.6	133.5	108.9	92.9	87.6
32.5°	2091.9	2067.3	1849.5	1271.8	615.1	331.0	170.9	117.5	99.3	87.6	82.2
35°	2222.2	2173.1	1952.0	1297.4	593.7	302.2	153.8	106.8	83.3	71.5	65.1
37.5°	2367.4	2349.3	2074.8	1296.4	562.8	285.1	142.0	99.3	79.0	66.2	58.7
40°	2515.8	2442.2	2149.6	1326.3	546.7	272.3	133.5	95.0	74.7	63.0	53.4
42.5°	2626.9	2542.5	2236.1	1315.6	527.5	249.9	130.3	88.6	71.5	57.7	49.1
45°	2656.8	2626.9	2314.0	1312.4	513.6	231.7	124.9	87.6	69.4	54.5	45.9
47.5°	2714.5	2694.2	2410.1	1317.7	503.0	217.8	112.1	89.7	66.2	51.3	43.8
50°	2740.1	2703.8	2488.1	1330.5	478.4	200.8	100.4	94.0	65.1	50.2	41.6
52.5°	2845.8	2813.8	2594.9	1366.8	458.1	178.3	88.6	89.7	67.3	47.0	39.5
55°	2949.4	2913.1	2759.3	1450.1	429.3	160.2	75.8	79.0	64.1	42.7	35.2
57.5°	3091.4	3031.6	2869.3	1484.3	403.6	135.6	67.3	65.1	59.8	38.4	31.0
60°	3112.8	3137.3	2853.3	1462.9	376.9	119.6	58.7	50.2	64.1	34.2	26.7
62.5°	3184.3	3081.8	2778.5	1413.8	357.7	110.0	52.3	41.6	55.5	29.9	22.4
65°	3046.6	2970.7	2603.4	1255.8	333.2	111.1	45.9	34.2	35.2	24.6	18.2
67.5°	2844.7	2784.9	2312.9	1083.9	308.6	108.9	40.6	29.9	26.7	21.4	16.0
70°	2496.6	2367.4	1964.8	879.9	272.3	101.4	34.2	26.7	22.4	17.1	11.7
72.5°	1816.4	1764.1	1409.6	680.2	244.5	91.8	32.0	22.4	19.2	12.8	9.6
75°	1222.7	1136.2	889.5	446.4	196.5	80.1	26.7	20.3	14.9	9.6	7.5
77.5°	646.0	610.8	504.0	212.5	108.9	37.4	14.9	11.7	8.5	7.5	4.3
80°	279.8	248.8	217.8	86.5	38.4	17.1	9.6	6.4	5.3	4.3	2.1
82.5°	143.1	136.7	113.2	37.4	22.4	12.8	5.3	4.3	3.2	2.1	1.1
85°	70.5	72.6	59.8	11.7	12.8	7.5	1.1	1.1	0.0	0.0	0.0
87.5°	5.3	5.3	4.3	2.1	3.2	1.1	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°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1325.2	1340.1	1314.5	1330.5	1323.1	1326.3	1329.5	1320.9	1323.1	1353.0	1354.0
5°	1061.4	1090.3	1079.6	1094.5	1120.2	1107.4	1119.1	1117.0	1119.1	1123.4	1142.6
7.5°	757.1	748.6	768.8	808.4	854.3	882.0	868.2	860.7	856.4	845.7	858.5
10°	571.3	567.0	561.7	573.4	603.3	634.3	651.4	622.6	606.5	586.2	578.8
12.5°	474.1	447.4	432.5	414.3	422.9	450.6	451.7	423.9	398.3	387.6	399.4
15°	373.7	355.6	328.9	303.3	290.5	311.8	293.7	267.0	233.9	229.6	228.5
17.5°	267.0	256.3	237.1	226.4	211.4	206.1	186.9	146.3	122.8	116.4	118.5
20°	181.5	173.0	171.9	162.3	155.9	151.6	120.7	94.0	86.5	87.6	88.6
22.5°	134.5	130.3	124.9	123.9	118.5	113.2	88.6	79.0	73.7	73.7	76.9
25°	110.0	107.9	102.5	100.4	98.2	90.8	74.7	67.3	65.1	63.0	66.2
27.5°	94.0	92.9	89.7	86.5	84.4	76.9	65.1	58.7	56.6	56.6	56.6
30°	84.4	84.4	80.1	73.7	73.7	65.1	55.5	51.3	49.1	49.1	48.1
32.5°	79.0	76.9	71.5	67.3	64.1	55.5	49.1	44.8	41.6	41.6	42.7
35°	64.1	64.1	63.0	59.8	55.5	47.0	41.6	37.4	35.2	34.2	35.2
37.5°	56.6	53.4	49.1	50.2	48.1	40.6	35.2	32.0	28.8	28.8	28.8
40°	51.3	48.1	43.8	40.6	39.5	36.3	31.0	25.6	22.4	21.4	21.4
42.5°	45.9	43.8	37.4	32.0	31.0	31.0	23.5	19.2	16.0	16.0	16.0
45°	42.7	39.5	34.2	27.8	22.4	23.5	19.2	13.9	11.7	10.7	10.7
47.5°	40.6	37.4	29.9	23.5	17.1	17.1	13.9	9.6	7.5	6.4	6.4
50°	37.4	34.2	26.7	19.2	12.8	10.7	8.5	5.3	3.2	2.1	2.1
52.5°	35.2	32.0	23.5	16.0	10.7	7.5	5.3	1.1	0.0	0.0	0.0
55°	32.0	27.8	20.3	12.8	8.5	4.3	1.1	0.0	0.0	0.0	0.0
57.5°	27.8	24.6	16.0	9.6	5.3	1.1	0.0	0.0	0.0	0.0	0.0
60°	23.5	20.3	12.8	7.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.2	17.1	9.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.0	12.8	7.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13.9	10.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.7	7.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.5	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	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°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1358.3	1390.3	1420.2	1428.8	1452.3	1517.4	1517.4	1548.4	1603.9	1624.2	1628.5
5°	1145.8	1180.0	1186.4	1252.6	1283.5	1349.8	1393.5	1498.2	1561.2	1600.7	1625.3
7.5°	871.4	883.1	907.7	969.6	1030.5	1110.6	1193.8	1327.3	1438.4	1483.2	1566.5
10°	599.1	634.3	687.7	743.2	838.3	926.9	1034.7	1160.7	1297.4	1353.0	1424.5
12.5°	403.6	452.8	538.2	617.2	704.8	794.5	897.0	1065.7	1220.5	1297.4	1369.0
15°	236.0	295.8	369.5	497.6	614.0	714.4	816.9	987.8	1175.7	1275.0	1362.6
17.5°	119.6	137.8	198.6	309.7	463.4	627.9	780.6	998.4	1209.9	1331.6	1404.2
20°	89.7	95.0	112.1	164.4	317.1	519.0	746.4	1014.4	1304.9	1453.3	1492.8
22.5°	78.0	82.2	89.7	106.8	178.3	397.2	698.4	1054.0	1434.1	1574.0	1657.3
25°	66.2	70.5	76.9	87.6	114.3	270.2	639.6	1095.6	1549.4	1725.6	1803.6
27.5°	57.7	60.9	67.3	75.8	92.9	171.9	538.2	1151.1	1725.6	1909.3	1929.6
30°	49.1	52.3	57.7	67.3	79.0	121.7	395.1	1158.6	1822.8	1989.4	2046.0
32.5°	42.7	43.8	50.2	58.7	66.2	96.1	277.6	1166.1	1894.4	2093.0	2104.7
35°	35.2	37.4	43.8	49.1	57.7	75.8	210.4	1128.7	1987.3	2199.8	2196.6
37.5°	28.8	32.0	36.3	40.6	47.0	64.1	167.7	1059.3	2103.6	2365.3	2264.9
40°	22.4	25.6	29.9	35.2	39.5	57.7	126.0	954.7	2225.4	2446.4	2339.6
42.5°	16.0	18.2	22.4	27.8	35.2	48.1	90.8	830.8	2273.4	2541.5	2429.3
45°	11.7	13.9	17.1	23.5	36.3	38.4	63.0	717.6	2324.7	2583.1	2409.1
47.5°	6.4	8.5	12.8	20.3	32.0	28.8	44.8	616.1	2383.4	2620.5	2425.1
50°	2.1	3.2	7.5	21.4	25.6	22.4	35.2	561.7	2441.1	2628.0	2457.1
52.5°	0.0	0.0	4.3	22.4	19.2	17.1	31.0	540.3	2426.1	2651.5	2436.8
55°	0.0	0.0	1.1	9.6	10.7	12.8	25.6	539.3	2531.9	2658.9	2547.9
57.5°	0.0	0.0	0.0	3.2	6.4	10.7	22.4	505.1	2599.1	2844.7	2697.4
60°	0.0	0.0	0.0	1.1	4.3	7.5	17.1	475.2	2667.5	2928.0	2857.5
62.5°	0.0	0.0	0.0	0.0	1.1	3.2	11.7	429.3	2529.7	2921.6	3012.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	339.6	2275.6	2768.9	2927.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	234.9	1992.6	2576.7	2770.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142.0	1608.2	2259.6	2349.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9	1147.9	1794.0	1927.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	710.1	1311.3	1475.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	460.2	993.1	1120.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	245.6	622.6	724.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.8	378.0	435.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	229.6	261.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.2	47.0
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°	359°	360°
0°	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2	1514.2
2.5°	1630.6	1661.6	1673.3	1655.2	1657.3	1619.9	1614.6	1562.3	1540.9	1545.2
5°	1705.3	1750.2	1774.8	1754.5	1708.5	1637.0	1571.9	1509.9	1471.5	1452.3
7.5°	1688.3	1738.4	1769.4	1788.6	1736.3	1621.0	1521.7	1405.3	1356.2	1357.2
10°	1594.3	1698.9	1761.9	1737.4	1712.8	1597.5	1443.7	1317.7	1273.9	1278.2
12.5°	1518.5	1634.9	1672.2	1691.5	1641.3	1549.4	1445.9	1301.7	1252.6	1222.7
15°	1471.5	1558.0	1560.1	1590.0	1569.7	1569.7	1468.3	1327.3	1284.6	1251.5
17.5°	1471.5	1490.7	1488.6	1499.2	1533.4	1574.0	1524.9	1430.9	1346.5	1341.2
20°	1504.6	1444.8	1430.9	1435.2	1464.0	1584.7	1649.8	1532.4	1479.0	1461.9
22.5°	1581.5	1450.1	1365.8	1350.8	1439.5	1583.6	1729.9	1692.5	1599.6	1585.7
25°	1687.2	1440.5	1348.7	1329.5	1396.7	1622.1	1839.9	1847.4	1763.0	1734.2
27.5°	1787.6	1483.2	1346.5	1342.3	1430.9	1613.5	1915.7	1971.2	1876.2	1852.7
30°	1821.7	1525.9	1386.1	1329.5	1443.7	1644.5	1913.6	2058.8	1996.9	2002.2
32.5°	1862.3	1568.7	1390.3	1367.9	1498.2	1694.7	1974.4	2199.8	2154.9	2091.9
35°	1922.1	1626.3	1430.9	1410.6	1536.6	1739.5	1987.3	2303.3	2295.9	2222.2
37.5°	1973.4	1682.9	1515.3	1518.5	1654.1	1812.1	2043.8	2430.4	2417.6	2367.4
40°	2009.7	1761.9	1646.6	1655.2	1756.6	1893.3	2144.2	2494.5	2589.5	2515.8
42.5°	2015.0	1832.4	1797.2	1865.5	1960.6	2019.3	2184.8	2538.3	2674.9	2626.9
45°	2035.3	1944.5	2042.8	2093.0	2170.9	2130.3	2182.7	2613.0	2681.4	2656.8
47.5°	2114.3	2148.5	2272.4	2425.1	2452.8	2319.4	2233.9	2624.8	2717.7	2714.5
50°	2196.6	2367.4	2541.5	2642.9	2678.1	2449.6	2282.0	2615.1	2765.7	2740.1
52.5°	2288.4	2557.5	2808.4	2933.4	2914.1	2593.8	2336.4	2693.1	2854.3	2845.8
55°	2346.0	2642.9	2980.3	3154.4	3139.5	2755.0	2509.4	2805.2	2970.7	2949.4
57.5°	2498.7	2781.7	3151.2	3232.4	3271.9	2966.5	2630.1	2988.9	3067.9	3091.4
60°	2624.8	2872.5	3196.0	3313.5	3327.4	3092.5	2841.5	3177.9	3191.8	3112.8
62.5°	2809.5	2907.7	3101.0	3206.7	3278.3	3164.0	3031.6	3279.3	3189.6	3184.3
65°	2945.1	2792.4	2923.8	2982.5	3028.4	3055.1	3222.7	3348.8	3150.1	3046.6
67.5°	2869.3	2574.6	2550.0	2553.2	2567.1	2728.3	3158.7	3179.0	2930.2	2844.7
70°	2525.4	2112.2	2079.1	2104.7	2035.3	2229.7	2899.2	2889.6	2585.2	2496.6
72.5°	2042.8	1539.8	1483.2	1518.5	1534.5	1740.6	2439.0	2191.2	1885.8	1816.4
75°	1623.1	1128.7	952.5	1037.9	1092.4	1267.5	1905.0	1488.6	1316.6	1222.7
77.5°	1275.0	854.3	741.1	706.9	757.1	921.5	1386.1	781.7	689.8	646.0
80°	808.4	627.9	681.3	632.2	653.5	657.8	721.9	355.6	283.0	279.8
82.5°	486.9	429.3	510.4	280.8	511.5	457.0	300.1	161.2	143.1	143.1
85°	344.9	265.9	176.2	114.3	227.5	250.9	116.4	83.3	72.6	70.5
87.5°	173.0	82.2	39.5	25.6	28.8	47.0	13.9	6.4	6.4	5.3
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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