

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: P677429

Luminaire Tested: **CCW-SA-1D-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677429
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-740-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4007.7 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

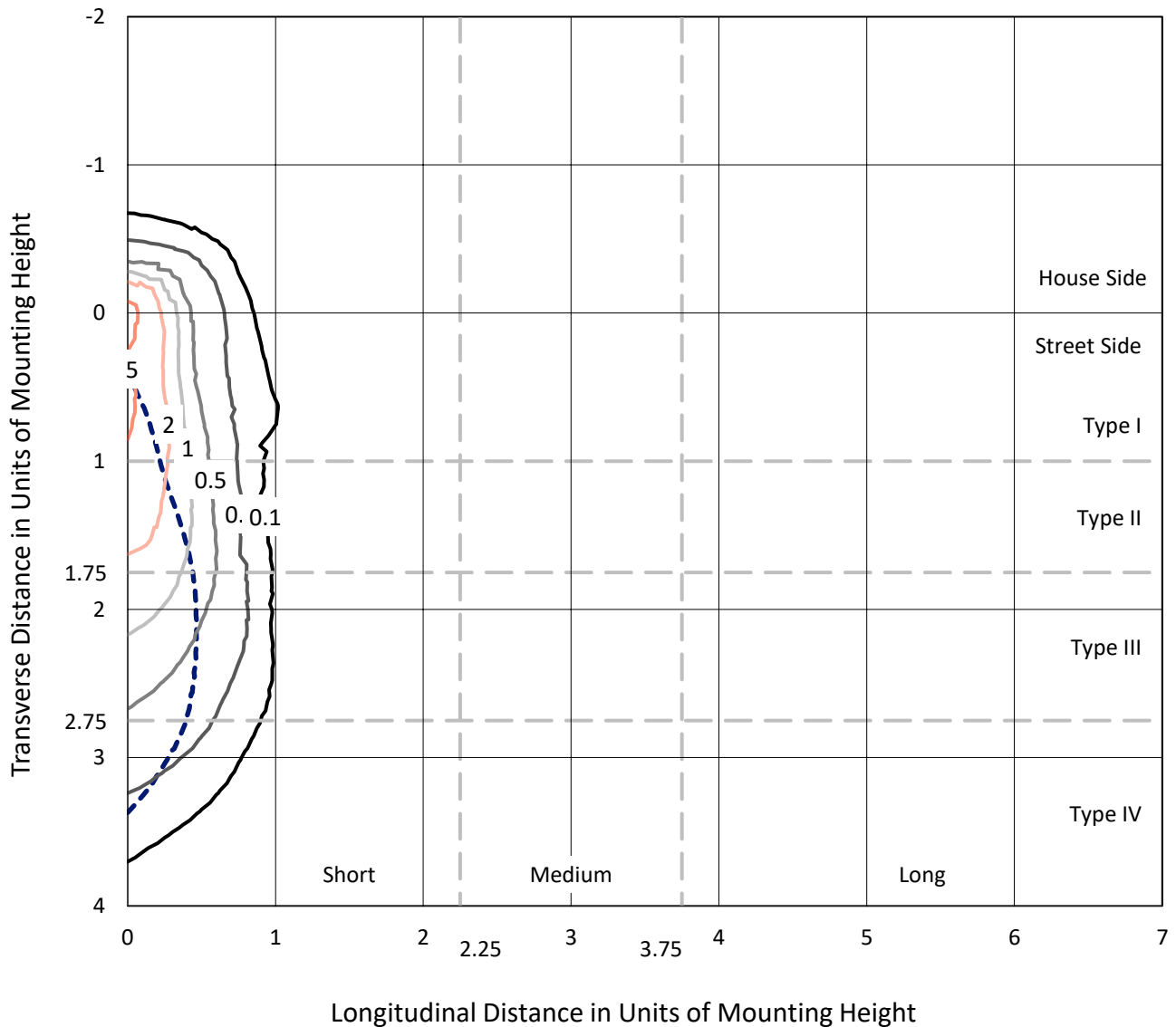
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

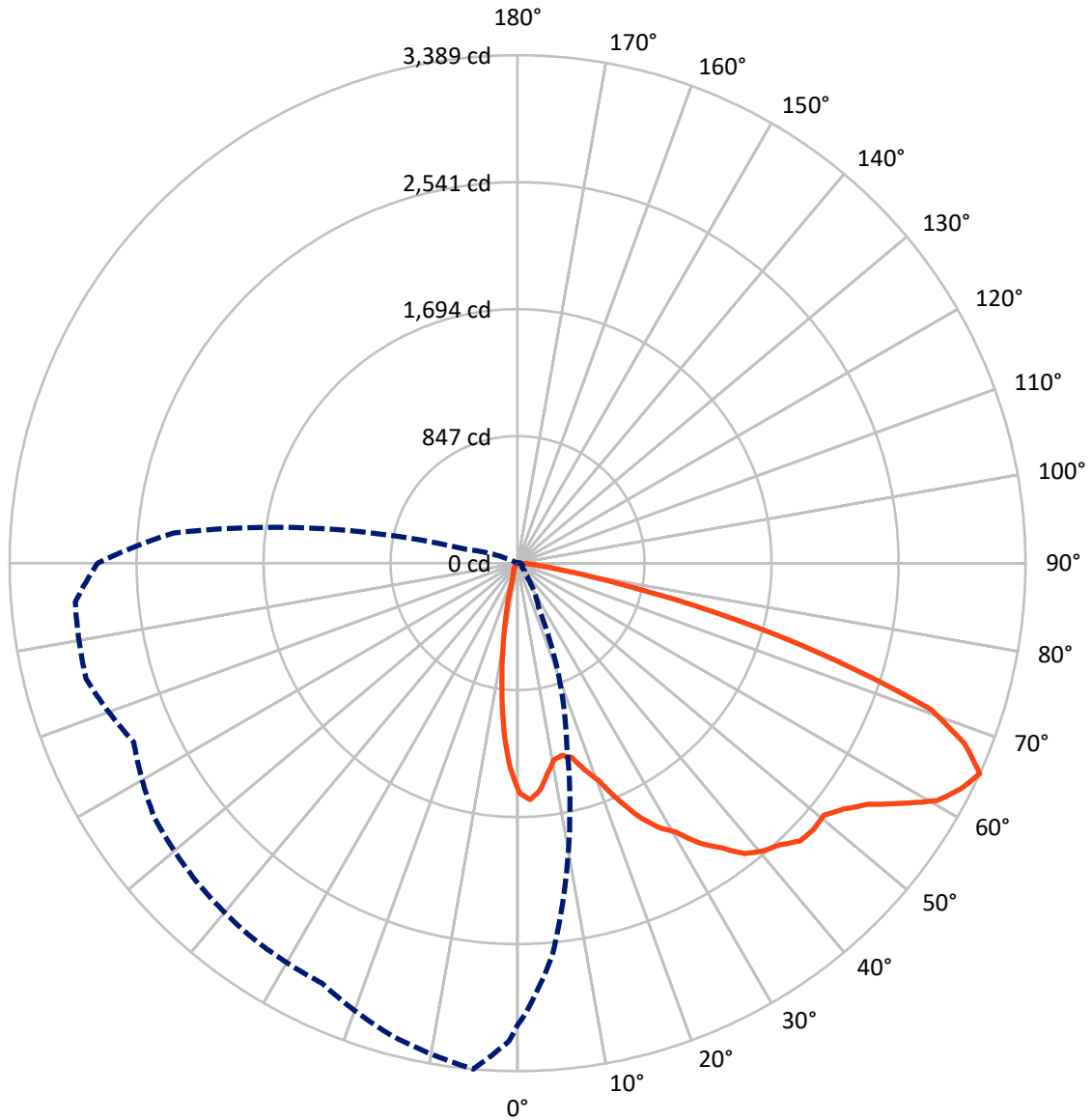
× Max cd
 - - - 1/2 Max cd



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 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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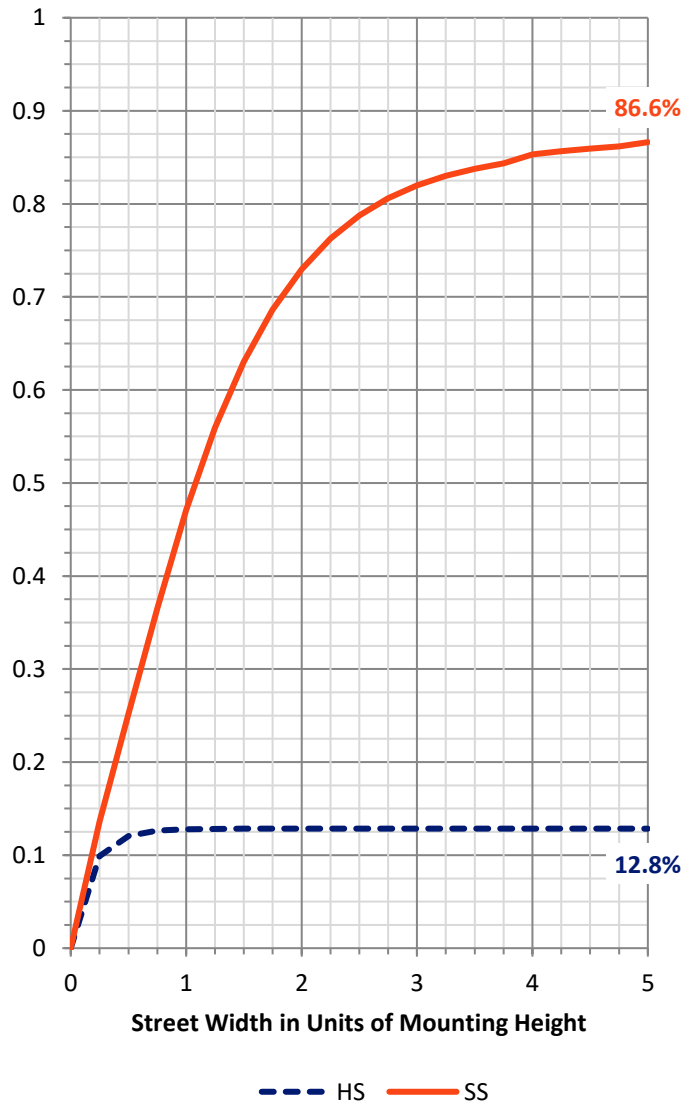
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.4	0.0	520.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3487.4	0.0	3487.4
	% Fixture	87.0	0.0	87.0
Total	Lumens	4007.7	0.0	4007.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	2.9
10°-20°	224.7	5.6
20°-30°	313.0	7.8
30°-40°	444.7	11.1
40°-50°	616.7	15.4
50°-60°	840.3	21.0
60°-70°	923.9	23.1
70°-80°	454.1	11.3
80°-90°	74.2	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°	4007.7	100.0
0°-180°	4007.7	100.0



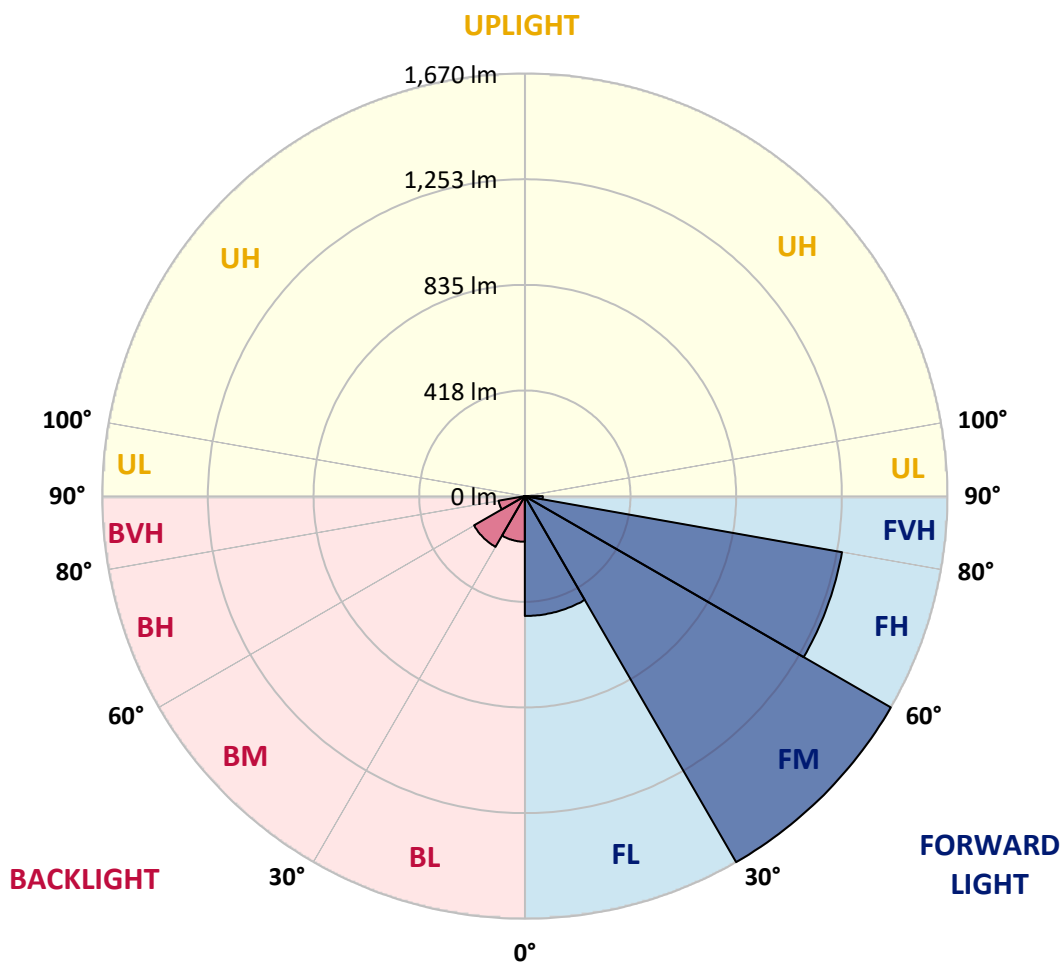
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.6	11.8			
FM (30°-60°)	1670.1	41.7			
FH (60°-80°)	1272.8	31.8			G1/1800
FVH (80°-90°)	70.8	1.8			G1/100
BL (0°-30°)	180.2	4.5	B1/500		
BM (30°-60°)	231.7	5.8	B1/1000		
BH (60°-80°)	105.2	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°	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2
2.5°	1563.5	1581.9	1564.6	1504.1	1493.3	1464.1	1419.8	1416.5	1370.1	1375.5	1350.6
5°	1469.5	1487.9	1451.1	1371.2	1296.6	1237.2	1201.5	1137.8	1123.7	1092.4	1092.4
7.5°	1373.3	1372.2	1309.6	1242.6	1131.3	1022.2	972.5	880.6	826.6	797.4	769.3
10°	1293.4	1276.1	1237.2	1098.9	977.9	864.4	802.8	742.3	686.1	637.5	588.9
12.5°	1237.2	1248.0	1186.4	1036.2	879.5	800.7	734.7	671.0	604.0	548.9	494.9
15°	1266.3	1249.1	1176.7	1022.2	863.3	755.3	667.8	590.0	515.4	443.0	401.9
17.5°	1357.1	1312.8	1227.5	1022.2	829.8	686.1	580.2	488.4	408.4	343.6	292.8
20°	1479.2	1428.4	1336.6	1060.0	805.0	635.3	490.5	374.9	291.7	231.2	192.3
22.5°	1604.5	1564.6	1426.3	1075.1	775.8	567.3	386.8	271.2	194.5	155.6	136.1
25°	1754.7	1698.6	1547.3	1135.6	732.6	501.4	304.7	189.1	144.8	124.3	112.4
27.5°	1874.7	1864.9	1660.7	1172.3	700.2	447.3	241.0	150.2	119.9	104.8	97.2
30°	2025.9	1973.0	1799.0	1245.8	663.4	385.7	201.0	135.1	110.2	94.0	88.6
32.5°	2116.7	2091.9	1871.4	1286.9	622.4	335.0	172.9	118.9	100.5	88.6	83.2
35°	2248.5	2198.8	1975.2	1312.8	600.8	305.8	155.6	108.1	84.3	72.4	65.9
37.5°	2395.5	2377.1	2099.4	1311.7	569.4	288.5	143.7	100.5	80.0	67.0	59.4
40°	2545.7	2471.1	2175.1	1342.0	553.2	275.5	135.1	96.2	75.6	63.7	54.0
42.5°	2658.0	2572.7	2262.6	1331.2	533.8	252.8	131.8	89.7	72.4	58.3	49.7
45°	2688.3	2658.0	2341.4	1327.9	519.7	234.5	126.4	88.6	70.2	55.1	46.5
47.5°	2746.6	2726.1	2438.7	1333.3	508.9	220.4	113.5	90.8	67.0	51.9	44.3
50°	2772.6	2735.8	2517.6	1346.3	484.1	203.1	101.6	95.1	65.9	50.8	42.1
52.5°	2879.5	2847.1	2625.6	1383.0	463.5	180.4	89.7	90.8	68.1	47.5	40.0
55°	2984.3	2947.6	2792.0	1467.3	434.4	162.1	76.7	80.0	64.8	43.2	35.7
57.5°	3128.1	3067.5	2903.3	1501.9	408.4	137.2	68.1	65.9	60.5	38.9	31.3
60°	3149.7	3174.5	2887.1	1480.3	381.4	121.0	59.4	50.8	64.8	34.6	27.0
62.5°	3222.1	3118.3	2811.5	1430.6	362.0	111.3	52.9	42.1	56.2	30.3	22.7
65°	3082.7	3006.0	2634.3	1270.7	337.1	112.4	46.5	34.6	35.7	24.9	18.4
67.5°	2878.5	2818.0	2340.4	1096.7	312.3	110.2	41.1	30.3	27.0	21.6	16.2
70°	2526.2	2395.5	1988.1	890.3	275.5	102.6	34.6	27.0	22.7	17.3	11.9
72.5°	1837.9	1785.0	1426.3	688.3	247.4	92.9	32.4	22.7	19.4	13.0	9.7
75°	1237.2	1149.7	900.1	451.7	198.8	81.0	27.0	20.5	15.1	9.7	7.6
77.5°	653.7	618.0	510.0	215.0	110.2	37.8	15.1	11.9	8.6	7.6	4.3
80°	283.1	251.8	220.4	87.5	38.9	17.3	9.7	6.5	5.4	4.3	2.2
82.5°	144.8	138.3	114.5	37.8	22.7	13.0	5.4	4.3	3.2	2.2	1.1
85°	71.3	73.5	60.5	11.9	13.0	7.6	1.1	1.1	0.0	0.0	0.0
87.5°	5.4	5.4	4.3	2.2	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°	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2
2.5°	1340.9	1356.0	1330.1	1346.3	1338.7	1342.0	1345.2	1336.6	1338.7	1369.0	1370.1
5°	1074.0	1103.2	1092.4	1107.5	1133.4	1120.5	1132.4	1130.2	1132.4	1136.7	1156.1
7.5°	766.1	757.4	778.0	817.9	864.4	892.5	878.4	870.9	866.6	855.8	868.7
10°	578.1	573.7	568.3	580.2	610.5	641.8	659.1	629.9	613.7	593.2	585.6
12.5°	479.7	452.7	437.6	419.2	427.9	456.0	457.1	429.0	403.0	392.2	404.1
15°	378.2	359.8	332.8	306.9	293.9	315.5	297.1	270.1	236.6	232.3	231.2
17.5°	270.1	259.3	239.9	229.1	213.9	208.5	189.1	148.0	124.3	117.8	119.9
20°	183.7	175.0	174.0	164.2	157.8	153.4	122.1	95.1	87.5	88.6	89.7
22.5°	136.1	131.8	126.4	125.3	119.9	114.5	89.7	80.0	74.6	74.6	77.8
25°	111.3	109.1	103.7	101.6	99.4	91.8	75.6	68.1	65.9	63.7	67.0
27.5°	95.1	94.0	90.8	87.5	85.4	77.8	65.9	59.4	57.3	57.3	57.3
30°	85.4	85.4	81.0	74.6	74.6	65.9	56.2	51.9	49.7	49.7	48.6
32.5°	80.0	77.8	72.4	68.1	64.8	56.2	49.7	45.4	42.1	42.1	43.2
35°	64.8	64.8	63.7	60.5	56.2	47.5	42.1	37.8	35.7	34.6	35.7
37.5°	57.3	54.0	49.7	50.8	48.6	41.1	35.7	32.4	29.2	29.2	29.2
40°	51.9	48.6	44.3	41.1	40.0	36.7	31.3	25.9	22.7	21.6	21.6
42.5°	46.5	44.3	37.8	32.4	31.3	31.3	23.8	19.4	16.2	16.2	16.2
45°	43.2	40.0	34.6	28.1	22.7	23.8	19.4	14.0	11.9	10.8	10.8
47.5°	41.1	37.8	30.3	23.8	17.3	17.3	14.0	9.7	7.6	6.5	6.5
50°	37.8	34.6	27.0	19.4	13.0	10.8	8.6	5.4	3.2	2.2	2.2
52.5°	35.7	32.4	23.8	16.2	10.8	7.6	5.4	1.1	0.0	0.0	0.0
55°	32.4	28.1	20.5	13.0	8.6	4.3	1.1	0.0	0.0	0.0	0.0
57.5°	28.1	24.9	16.2	9.7	5.4	1.1	0.0	0.0	0.0	0.0	0.0
60°	23.8	20.5	13.0	7.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.4	17.3	9.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.2	13.0	7.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14.0	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.8	7.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.6	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.4	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°	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2
2.5°	1374.4	1406.8	1437.1	1445.7	1469.5	1535.4	1535.4	1566.7	1622.9	1643.4	1647.8
5°	1159.4	1194.0	1200.4	1267.4	1298.8	1365.8	1410.1	1515.9	1579.7	1619.7	1644.5
7.5°	881.7	893.6	918.4	981.1	1042.7	1123.7	1208.0	1343.1	1455.4	1500.8	1585.1
10°	606.2	641.8	695.8	752.0	848.2	937.9	1047.0	1174.5	1312.8	1369.0	1441.4
12.5°	408.4	458.1	544.6	624.5	713.1	803.9	907.6	1078.3	1235.0	1312.8	1385.2
15°	238.8	299.3	373.9	503.5	621.3	722.9	826.6	999.5	1189.6	1290.1	1378.7
17.5°	121.0	139.4	201.0	313.3	468.9	635.3	789.8	1010.3	1224.2	1347.4	1420.9
20°	90.8	96.2	113.5	166.4	320.9	525.1	755.3	1026.5	1320.4	1470.6	1510.5
22.5°	78.9	83.2	90.8	108.1	180.4	401.9	706.6	1066.5	1451.1	1592.7	1676.9
25°	67.0	71.3	77.8	88.6	115.6	273.4	647.2	1108.6	1567.8	1746.1	1825.0
27.5°	58.3	61.6	68.1	76.7	94.0	174.0	544.6	1164.8	1746.1	1931.9	1952.5
30°	49.7	52.9	58.3	68.1	80.0	123.2	399.8	1172.3	1844.4	2013.0	2070.2
32.5°	43.2	44.3	50.8	59.4	67.0	97.2	280.9	1179.9	1916.8	2117.8	2129.7
35°	35.7	37.8	44.3	49.7	58.3	76.7	212.9	1142.1	2010.8	2225.8	2222.6
37.5°	29.2	32.4	36.7	41.1	47.5	64.8	169.6	1071.9	2128.6	2393.3	2291.7
40°	22.7	25.9	30.3	35.7	40.0	58.3	127.5	966.0	2251.8	2475.4	2367.4
42.5°	16.2	18.4	22.7	28.1	35.7	48.6	91.8	840.6	2300.4	2571.6	2458.1
45°	11.9	14.0	17.3	23.8	36.7	38.9	63.7	726.1	2352.3	2613.7	2437.6
47.5°	6.5	8.6	13.0	20.5	32.4	29.2	45.4	623.5	2411.7	2651.6	2453.8
50°	2.2	3.2	7.6	21.6	25.9	22.7	35.7	568.3	2470.0	2659.1	2486.2
52.5°	0.0	0.0	4.3	22.7	19.4	17.3	31.3	546.7	2454.9	2682.9	2465.7
55°	0.0	0.0	1.1	9.7	10.8	13.0	25.9	545.7	2561.9	2690.5	2578.1
57.5°	0.0	0.0	0.0	3.2	6.5	10.8	22.7	511.1	2629.9	2878.5	2729.4
60°	0.0	0.0	0.0	1.1	4.3	7.6	17.3	480.8	2699.1	2962.7	2891.4
62.5°	0.0	0.0	0.0	0.0	1.1	3.2	11.9	434.4	2559.7	2956.3	3048.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	343.6	2302.6	2801.7	2961.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	237.7	2016.2	2607.3	2802.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	143.7	1627.2	2286.3	2377.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.6	1161.5	1815.2	1950.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	718.5	1326.9	1493.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	465.7	1004.9	1133.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	248.5	629.9	732.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.1	382.5	440.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6	232.3	264.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.7	47.5
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°	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2	1532.2
2.5°	1649.9	1681.3	1693.1	1674.8	1676.9	1639.1	1633.7	1580.8	1559.2	1563.5
5°	1725.6	1770.9	1795.8	1775.3	1728.8	1656.4	1590.5	1527.8	1488.9	1469.5
7.5°	1708.3	1759.1	1790.4	1809.8	1756.9	1640.2	1539.7	1421.9	1372.2	1373.3
10°	1613.2	1719.1	1782.8	1758.0	1733.1	1616.4	1460.8	1333.3	1289.0	1293.4
12.5°	1536.5	1654.2	1692.1	1711.5	1660.7	1567.8	1463.0	1317.1	1267.4	1237.2
15°	1488.9	1576.5	1578.6	1608.9	1588.3	1588.3	1485.7	1343.1	1299.8	1266.3
17.5°	1488.9	1508.4	1506.2	1517.0	1551.6	1592.7	1543.0	1447.9	1362.5	1357.1
20°	1522.4	1461.9	1447.9	1452.2	1481.4	1603.5	1669.4	1550.5	1496.5	1479.2
22.5°	1600.2	1467.3	1382.0	1366.8	1456.5	1602.4	1750.4	1712.6	1618.6	1604.5
25°	1707.2	1457.6	1364.7	1345.2	1413.3	1641.3	1861.7	1869.3	1783.9	1754.7
27.5°	1808.8	1500.8	1362.5	1358.2	1447.9	1632.6	1938.4	1994.6	1898.4	1874.7
30°	1843.3	1544.0	1402.5	1345.2	1460.8	1664.0	1936.3	2083.2	2020.5	2025.9
32.5°	1884.4	1587.3	1406.8	1384.1	1515.9	1714.8	1997.8	2225.8	2180.5	2116.7
35°	1944.9	1645.6	1447.9	1427.3	1554.8	1760.1	2010.8	2330.6	2323.1	2248.5
37.5°	1996.8	1702.9	1533.2	1536.5	1673.7	1833.6	2068.1	2459.2	2446.3	2395.5
40°	2033.5	1782.8	1666.1	1674.8	1777.4	1915.7	2169.6	2524.1	2620.2	2545.7
42.5°	2038.9	1854.1	1818.5	1887.6	1983.8	2043.2	2210.7	2568.4	2706.7	2658.0
45°	2059.4	1967.6	2067.0	2117.8	2196.7	2155.6	2208.5	2644.0	2713.1	2688.3
47.5°	2139.4	2174.0	2299.3	2453.8	2481.9	2346.9	2260.4	2655.9	2749.9	2746.6
50°	2222.6	2395.5	2571.6	2674.2	2709.9	2478.7	2309.0	2646.2	2798.5	2772.6
52.5°	2315.5	2587.8	2841.7	2968.1	2948.7	2624.5	2364.1	2725.0	2888.2	2879.5
55°	2373.9	2674.2	3015.7	3191.8	3176.7	2787.7	2539.2	2838.5	3006.0	2984.3
57.5°	2528.4	2814.7	3188.6	3270.7	3310.7	3001.6	2661.3	3024.3	3104.3	3128.1
60°	2655.9	2906.6	3233.9	3352.8	3366.8	3129.1	2875.2	3215.6	3229.6	3149.7
62.5°	2842.8	2942.2	3137.8	3244.8	3317.1	3201.5	3067.5	3318.2	3227.5	3222.1
65°	2980.0	2825.5	2958.4	3017.8	3064.3	3091.3	3261.0	3388.5	3187.5	3082.7
67.5°	2903.3	2605.1	2580.2	2583.5	2597.5	2760.7	3196.1	3216.7	2964.9	2878.5
70°	2555.4	2137.2	2103.7	2129.7	2059.4	2256.1	2933.6	2923.8	2615.9	2526.2
72.5°	2067.0	1558.1	1500.8	1536.5	1552.7	1761.2	2467.9	2217.2	1908.2	1837.9
75°	1642.4	1142.1	963.8	1050.2	1105.4	1282.6	1927.6	1506.2	1332.3	1237.2
77.5°	1290.1	864.4	749.9	715.3	766.1	932.5	1402.5	790.9	698.0	653.7
80°	817.9	635.3	689.4	639.7	661.3	665.6	730.4	359.8	286.3	283.1
82.5°	492.7	434.4	516.5	284.2	517.6	462.5	303.6	163.2	144.8	144.8
85°	349.0	269.0	178.3	115.6	230.1	253.9	117.8	84.3	73.5	71.3
87.5°	175.0	83.2	40.0	25.9	29.2	47.5	14.0	6.5	6.5	5.4
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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