

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: P677443

Luminaire Tested: **CCW-SA-2A-750-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677443
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-750-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

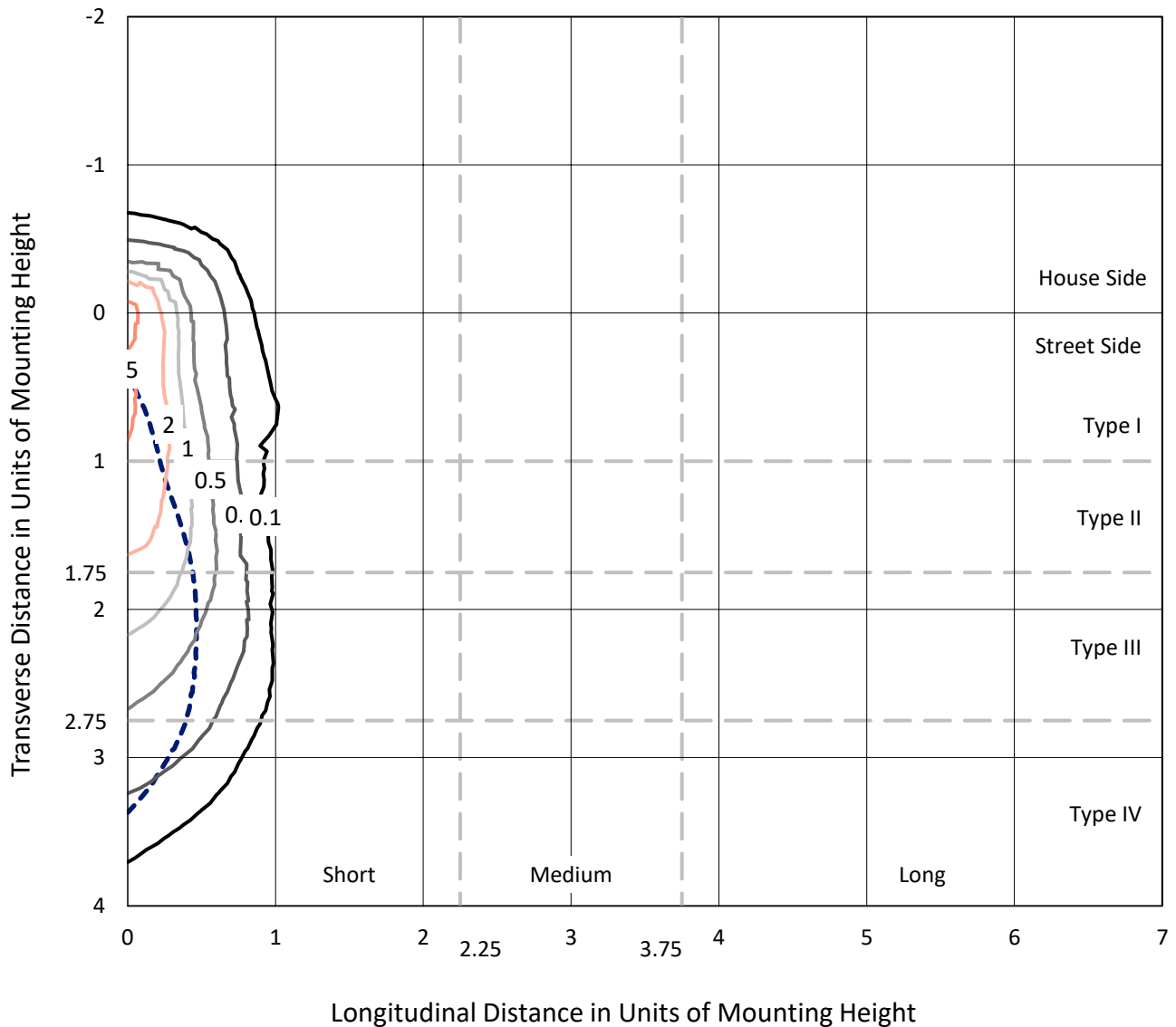
Lumens per Lamp: N/A
Luminaire Lumens: 4022.1 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

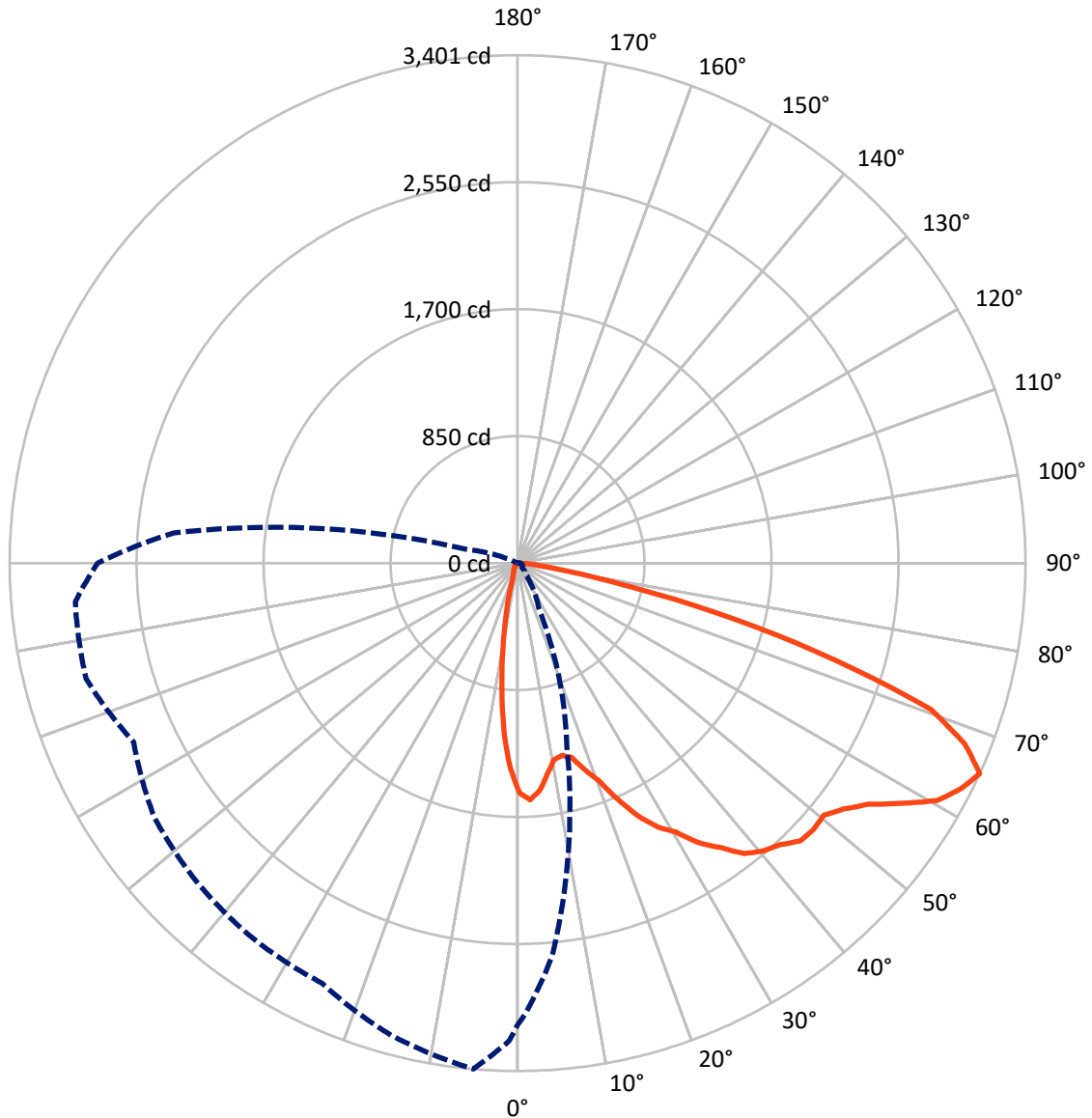
× Max cd
 - - - 1/2 Max cd



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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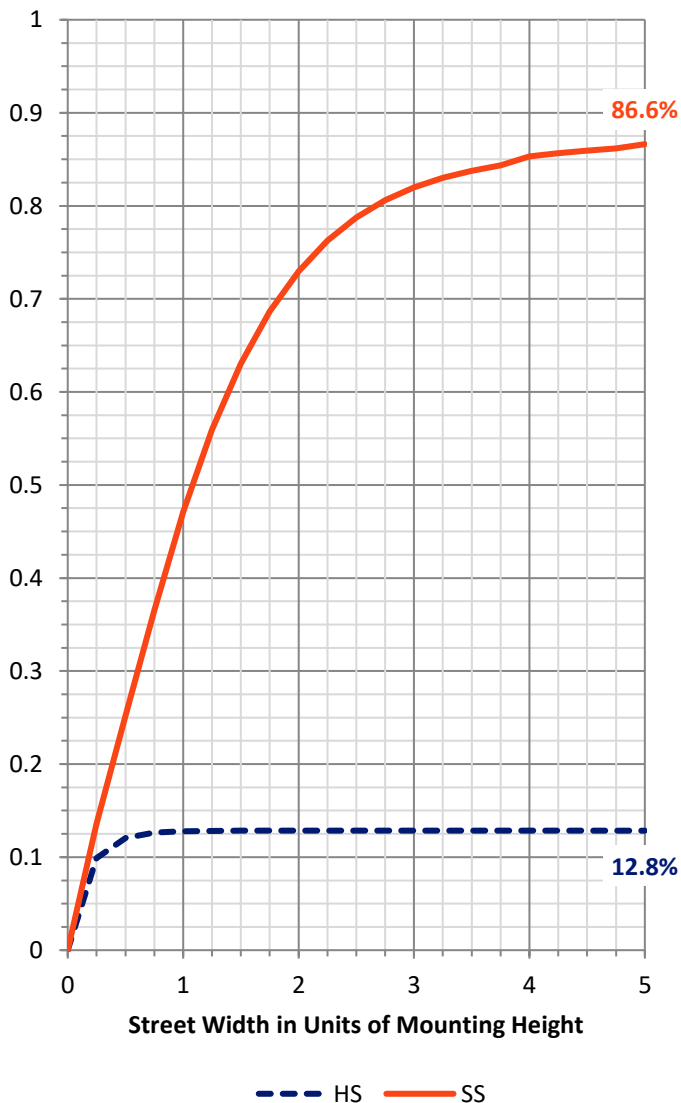
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.2	0.0	522.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3499.9	0.0	3499.9
	% Fixture	87.0	0.0	87.0
Total	Lumens	4022.1	0.0	4022.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	2.9
10°-20°	225.5	5.6
20°-30°	314.1	7.8
30°-40°	446.3	11.1
40°-50°	619.0	15.4
50°-60°	843.4	21.0
60°-70°	927.2	23.1
70°-80°	455.7	11.3
80°-90°	74.4	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°	4022.1	100.0
0°-180°	4022.1	100.0



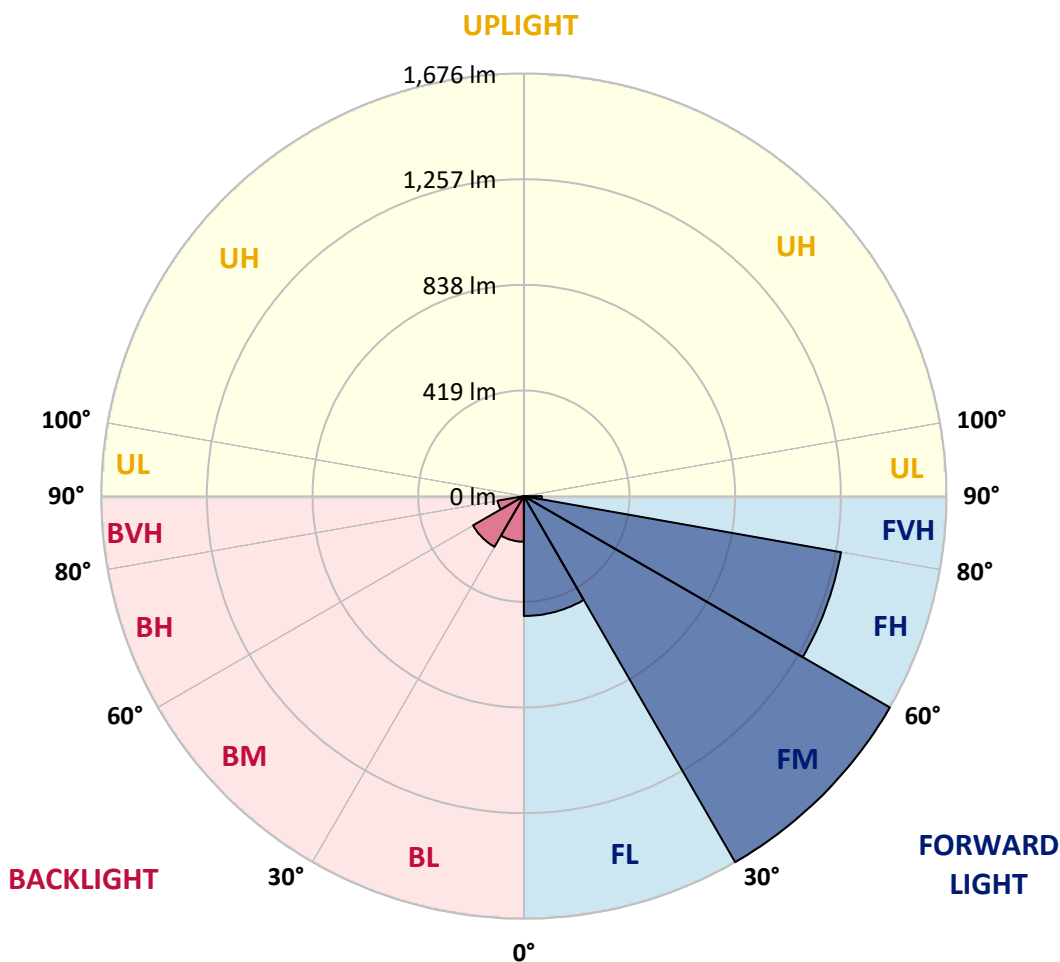
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.3	11.8			
FM (30°-60°)	1676.1	41.7			
FH (60°-80°)	1277.4	31.8			G1/1800
FVH (80°-90°)	71.1	1.8			G1/100
BL (0°-30°)	180.8	4.5	B1/500		
BM (30°-60°)	232.5	5.8	B1/1000		
BH (60°-80°)	105.5	2.6	B0/110		G0/110
BVH (80°-90°)	3.4	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°	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7
2.5°	1569.1	1587.5	1570.2	1509.5	1498.6	1469.3	1424.9	1421.6	1375.0	1380.4	1355.5
5°	1474.8	1493.2	1456.3	1376.1	1301.3	1241.6	1205.8	1141.9	1127.8	1096.3	1096.3
7.5°	1378.3	1377.2	1314.3	1247.0	1135.4	1025.8	975.9	883.8	829.6	800.3	772.1
10°	1298.0	1280.7	1241.6	1102.8	981.4	867.5	805.7	745.0	688.6	639.8	591.0
12.5°	1241.6	1252.5	1190.7	1039.9	882.7	803.5	737.4	673.4	606.2	550.9	496.6
15°	1270.9	1253.5	1180.9	1025.8	866.4	758.0	670.2	592.1	517.3	444.6	403.4
17.5°	1362.0	1317.5	1231.9	1025.8	832.8	688.6	582.3	490.1	409.9	344.8	293.9
20°	1484.5	1433.6	1341.4	1063.8	807.9	637.6	492.3	376.3	292.8	232.1	193.0
22.5°	1610.3	1570.2	1431.4	1079.0	778.6	569.3	388.2	272.2	195.2	156.2	136.6
25°	1761.0	1704.7	1552.8	1139.7	735.2	503.2	305.8	189.8	145.3	124.7	112.8
27.5°	1881.4	1871.6	1666.7	1176.6	702.7	448.9	241.8	150.7	120.4	105.2	97.6
30°	2033.2	1980.1	1805.5	1250.3	665.8	387.1	201.7	135.5	110.6	94.3	88.9
32.5°	2124.3	2099.4	1878.2	1291.5	624.6	336.2	173.5	119.3	100.8	88.9	83.5
35°	2256.6	2206.7	1982.3	1317.5	602.9	306.9	156.2	108.4	84.6	72.7	66.1
37.5°	2404.1	2385.6	2107.0	1316.4	571.5	289.5	144.2	100.8	80.2	67.2	59.6
40°	2554.8	2480.0	2182.9	1346.8	555.2	276.5	135.5	96.5	75.9	64.0	54.2
42.5°	2667.6	2581.9	2270.7	1336.0	535.7	253.7	132.3	90.0	72.7	58.6	49.9
45°	2698.0	2667.6	2349.9	1332.7	521.6	235.3	126.9	88.9	70.5	55.3	46.6
47.5°	2756.5	2735.9	2447.5	1338.1	510.7	221.2	113.9	91.1	67.2	52.1	44.5
50°	2782.5	2745.7	2526.6	1351.1	485.8	203.9	101.9	95.4	66.1	51.0	42.3
52.5°	2889.9	2857.4	2635.1	1388.0	465.2	181.1	90.0	91.1	68.3	47.7	40.1
55°	2995.1	2958.2	2802.1	1472.6	435.9	162.7	77.0	80.2	65.1	43.4	35.8
57.5°	3139.3	3078.6	2913.7	1507.3	409.9	137.7	68.3	66.1	60.7	39.0	31.4
60°	3161.0	3185.9	2897.5	1485.6	382.8	121.5	59.6	51.0	65.1	34.7	27.1
62.5°	3233.6	3129.5	2821.6	1435.7	363.3	111.7	53.1	42.3	56.4	30.4	22.8
65°	3093.8	3016.8	2643.7	1275.2	338.3	112.8	46.6	34.7	35.8	24.9	18.4
67.5°	2888.8	2828.1	2348.8	1100.7	313.4	110.6	41.2	30.4	27.1	21.7	16.3
70°	2535.3	2404.1	1995.3	893.5	276.5	103.0	34.7	27.1	22.8	17.4	11.9
72.5°	1844.5	1791.4	1431.4	690.8	248.3	93.3	32.5	22.8	19.5	13.0	9.8
75°	1241.6	1153.8	903.3	453.3	199.5	81.3	27.1	20.6	15.2	9.8	7.6
77.5°	656.1	620.3	511.8	215.8	110.6	38.0	15.2	11.9	8.7	7.6	4.3
80°	284.1	252.7	221.2	87.8	39.0	17.4	9.8	6.5	5.4	4.3	2.2
82.5°	145.3	138.8	114.9	38.0	22.8	13.0	5.4	4.3	3.3	2.2	1.1
85°	71.6	73.7	60.7	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	3.3	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°	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7
2.5°	1345.7	1360.9	1334.9	1351.1	1343.6	1346.8	1350.1	1341.4	1343.6	1373.9	1375.0
5°	1077.9	1107.2	1096.3	1111.5	1137.5	1124.5	1136.4	1134.3	1136.4	1140.8	1160.3
7.5°	768.8	760.2	780.8	820.9	867.5	895.7	881.6	874.0	869.7	858.8	871.8
10°	580.1	575.8	570.4	582.3	612.7	644.1	661.5	632.2	615.9	595.3	587.7
12.5°	481.5	454.4	439.2	420.7	429.4	457.6	458.7	430.5	404.5	393.6	405.6
15°	379.5	361.1	334.0	308.0	295.0	316.6	298.2	271.1	237.5	233.1	232.1
17.5°	271.1	260.3	240.7	229.9	214.7	209.3	189.8	148.6	124.7	118.2	120.4
20°	184.3	175.7	174.6	164.8	158.3	154.0	122.5	95.4	87.8	88.9	90.0
22.5°	136.6	132.3	126.9	125.8	120.4	114.9	90.0	80.2	74.8	74.8	78.1
25°	111.7	109.5	104.1	101.9	99.8	92.2	75.9	68.3	66.1	64.0	67.2
27.5°	95.4	94.3	91.1	87.8	85.7	78.1	66.1	59.6	57.5	57.5	57.5
30°	85.7	85.7	81.3	74.8	74.8	66.1	56.4	52.1	49.9	49.9	48.8
32.5°	80.2	78.1	72.7	68.3	65.1	56.4	49.9	45.5	42.3	42.3	43.4
35°	65.1	65.1	64.0	60.7	56.4	47.7	42.3	38.0	35.8	34.7	35.8
37.5°	57.5	54.2	49.9	51.0	48.8	41.2	35.8	32.5	29.3	29.3	29.3
40°	52.1	48.8	44.5	41.2	40.1	36.9	31.4	26.0	22.8	21.7	21.7
42.5°	46.6	44.5	38.0	32.5	31.4	31.4	23.9	19.5	16.3	16.3	16.3
45°	43.4	40.1	34.7	28.2	22.8	23.9	19.5	14.1	11.9	10.8	10.8
47.5°	41.2	38.0	30.4	23.9	17.4	17.4	14.1	9.8	7.6	6.5	6.5
50°	38.0	34.7	27.1	19.5	13.0	10.8	8.7	5.4	3.3	2.2	2.2
52.5°	35.8	32.5	23.9	16.3	10.8	7.6	5.4	1.1	0.0	0.0	0.0
55°	32.5	28.2	20.6	13.0	8.7	4.3	1.1	0.0	0.0	0.0	0.0
57.5°	28.2	24.9	16.3	9.8	5.4	1.1	0.0	0.0	0.0	0.0	0.0
60°	23.9	20.6	13.0	7.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.5	17.4	9.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.3	13.0	7.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14.1	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	3.3	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	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.3	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°	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7
2.5°	1379.3	1411.9	1442.2	1450.9	1474.8	1540.9	1540.9	1572.4	1628.7	1649.3	1653.7
5°	1163.5	1198.2	1204.8	1272.0	1303.4	1370.7	1415.1	1521.4	1585.4	1625.5	1650.4
7.5°	884.9	896.8	921.7	984.6	1046.4	1127.8	1212.3	1347.9	1460.7	1506.2	1590.8
10°	608.3	644.1	698.3	754.7	851.2	941.2	1050.8	1178.7	1317.5	1373.9	1446.6
12.5°	409.9	459.8	546.5	626.8	715.7	806.8	910.9	1082.2	1239.5	1317.5	1390.2
15°	239.6	300.4	375.2	505.3	623.5	725.5	829.6	1003.1	1193.9	1294.8	1383.7
17.5°	121.5	139.9	201.7	314.5	470.6	637.6	792.7	1013.9	1228.6	1352.2	1426.0
20°	91.1	96.5	113.9	167.0	322.1	527.0	758.0	1030.2	1325.1	1475.8	1516.0
22.5°	79.2	83.5	91.1	108.4	181.1	403.4	709.2	1070.3	1456.3	1598.4	1683.0
25°	67.2	71.6	78.1	88.9	116.0	274.3	649.5	1112.6	1573.4	1752.4	1831.5
27.5°	58.6	61.8	68.3	77.0	94.3	174.6	546.5	1169.0	1752.4	1938.9	1959.5
30°	49.9	53.1	58.6	68.3	80.2	123.6	401.2	1176.6	1851.0	2020.2	2077.7
32.5°	43.4	44.5	51.0	59.6	67.2	97.6	281.9	1184.1	1923.7	2125.4	2137.3
35°	35.8	38.0	44.5	49.9	58.6	77.0	213.6	1146.2	2018.0	2233.8	2230.6
37.5°	29.3	32.5	36.9	41.2	47.7	65.1	170.2	1075.7	2136.2	2401.9	2300.0
40°	22.8	26.0	30.4	35.8	40.1	58.6	128.0	969.4	2259.9	2484.3	2375.9
42.5°	16.3	18.4	22.8	28.2	35.8	48.8	92.2	843.7	2308.7	2580.8	2467.0
45°	11.9	14.1	17.4	23.9	36.9	39.0	64.0	728.7	2360.7	2623.1	2446.4
47.5°	6.5	8.7	13.0	20.6	32.5	29.3	45.5	625.7	2420.3	2661.1	2462.6
50°	2.2	3.3	7.6	21.7	26.0	22.8	35.8	570.4	2478.9	2668.7	2495.2
52.5°	0.0	0.0	4.3	22.8	19.5	17.4	31.4	548.7	2463.7	2692.5	2474.6
55°	0.0	0.0	1.1	9.8	10.8	13.0	26.0	547.6	2571.1	2700.1	2587.3
57.5°	0.0	0.0	0.0	3.3	6.5	10.8	22.8	512.9	2639.4	2888.8	2739.2
60°	0.0	0.0	0.0	1.1	4.3	7.6	17.4	482.6	2708.8	2973.4	2901.8
62.5°	0.0	0.0	0.0	0.0	1.1	3.3	11.9	435.9	2568.9	2966.9	3059.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	344.8	2310.8	2811.8	2972.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	238.6	2023.5	2616.6	2812.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.2	1633.1	2294.6	2385.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8	1165.7	1821.8	1957.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	721.1	1331.6	1498.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	467.4	1008.5	1137.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	249.4	632.2	735.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.4	383.9	442.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	233.1	265.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.8	47.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7	1537.7
2.5°	1655.9	1687.3	1699.2	1680.8	1683.0	1645.0	1639.6	1586.5	1564.8	1569.1
5°	1731.8	1777.3	1802.2	1781.6	1735.0	1662.4	1596.2	1533.3	1494.3	1474.8
7.5°	1714.4	1765.4	1796.8	1816.3	1763.2	1646.1	1545.2	1427.1	1377.2	1378.3
10°	1619.0	1725.3	1789.2	1764.3	1739.4	1622.2	1466.1	1338.1	1293.7	1298.0
12.5°	1542.0	1660.2	1698.1	1717.7	1666.7	1573.4	1468.3	1321.9	1272.0	1241.6
15°	1494.3	1582.1	1584.3	1614.6	1594.0	1594.0	1491.0	1347.9	1304.5	1270.9
17.5°	1494.3	1513.8	1511.6	1522.5	1557.2	1598.4	1548.5	1453.1	1367.4	1362.0
20°	1527.9	1467.2	1453.1	1457.4	1486.7	1609.2	1675.4	1556.1	1501.9	1484.5
22.5°	1606.0	1472.6	1386.9	1371.7	1461.8	1608.1	1756.7	1718.8	1624.4	1610.3
25°	1713.3	1462.8	1369.6	1350.1	1418.4	1647.2	1868.4	1876.0	1790.3	1761.0
27.5°	1815.3	1506.2	1367.4	1363.1	1453.1	1638.5	1945.4	2001.8	1905.3	1881.4
30°	1850.0	1549.6	1407.5	1350.1	1466.1	1670.0	1943.2	2090.7	2027.8	2033.2
32.5°	1891.2	1593.0	1411.9	1389.1	1521.4	1720.9	2005.0	2233.8	2188.3	2124.3
35°	1951.9	1651.5	1453.1	1432.5	1560.4	1766.5	2018.0	2339.0	2331.4	2256.6
37.5°	2003.9	1709.0	1538.7	1542.0	1679.7	1840.2	2075.5	2468.1	2455.0	2404.1
40°	2040.8	1789.2	1672.1	1680.8	1783.8	1922.6	2177.4	2533.1	2629.6	2554.8
42.5°	2046.2	1860.8	1825.0	1894.4	1990.9	2050.6	2218.7	2577.6	2716.4	2667.6
45°	2066.8	1974.7	2074.4	2125.4	2204.6	2163.3	2216.5	2653.5	2722.9	2698.0
47.5°	2147.1	2181.8	2307.6	2462.6	2490.8	2355.3	2268.5	2665.4	2759.8	2756.5
50°	2230.6	2404.1	2580.8	2683.9	2719.6	2487.6	2317.3	2655.7	2808.6	2782.5
52.5°	2323.8	2597.1	2851.9	2978.8	2959.3	2634.0	2372.6	2734.8	2898.6	2889.9
55°	2382.4	2683.9	3026.5	3203.3	3188.1	2797.7	2548.3	2848.7	3016.8	2995.1
57.5°	2537.5	2824.8	3200.0	3282.4	3322.6	3012.4	2670.8	3035.2	3115.4	3139.3
60°	2665.4	2917.0	3245.6	3364.8	3378.9	3140.4	2885.5	3227.1	3241.2	3161.0
62.5°	2853.0	2952.8	3149.1	3256.4	3329.1	3213.0	3078.6	3330.1	3239.1	3233.6
65°	2990.7	2835.7	2969.0	3028.7	3075.3	3102.4	3272.7	3400.6	3198.9	3093.8
67.5°	2913.7	2614.5	2589.5	2592.8	2606.9	2770.6	3207.6	3228.2	2975.6	2888.8
70°	2564.6	2144.9	2111.3	2137.3	2066.8	2264.2	2944.1	2934.3	2625.3	2535.3
72.5°	2074.4	1563.7	1506.2	1542.0	1558.3	1767.5	2476.7	2225.2	1915.0	1844.5
75°	1648.3	1146.2	967.3	1054.0	1109.3	1287.2	1934.5	1511.6	1337.0	1241.6
77.5°	1294.8	867.5	752.6	717.9	768.8	935.8	1407.5	793.8	700.5	656.1
80°	820.9	637.6	691.8	642.0	663.6	668.0	733.0	361.1	287.4	284.1
82.5°	494.5	435.9	518.3	285.2	519.4	464.1	304.7	163.7	145.3	145.3
85°	350.3	270.0	178.9	116.0	231.0	254.8	118.2	84.6	73.7	71.6
87.5°	175.7	83.5	40.1	26.0	29.3	47.7	14.1	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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