

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: P677299

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677299
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

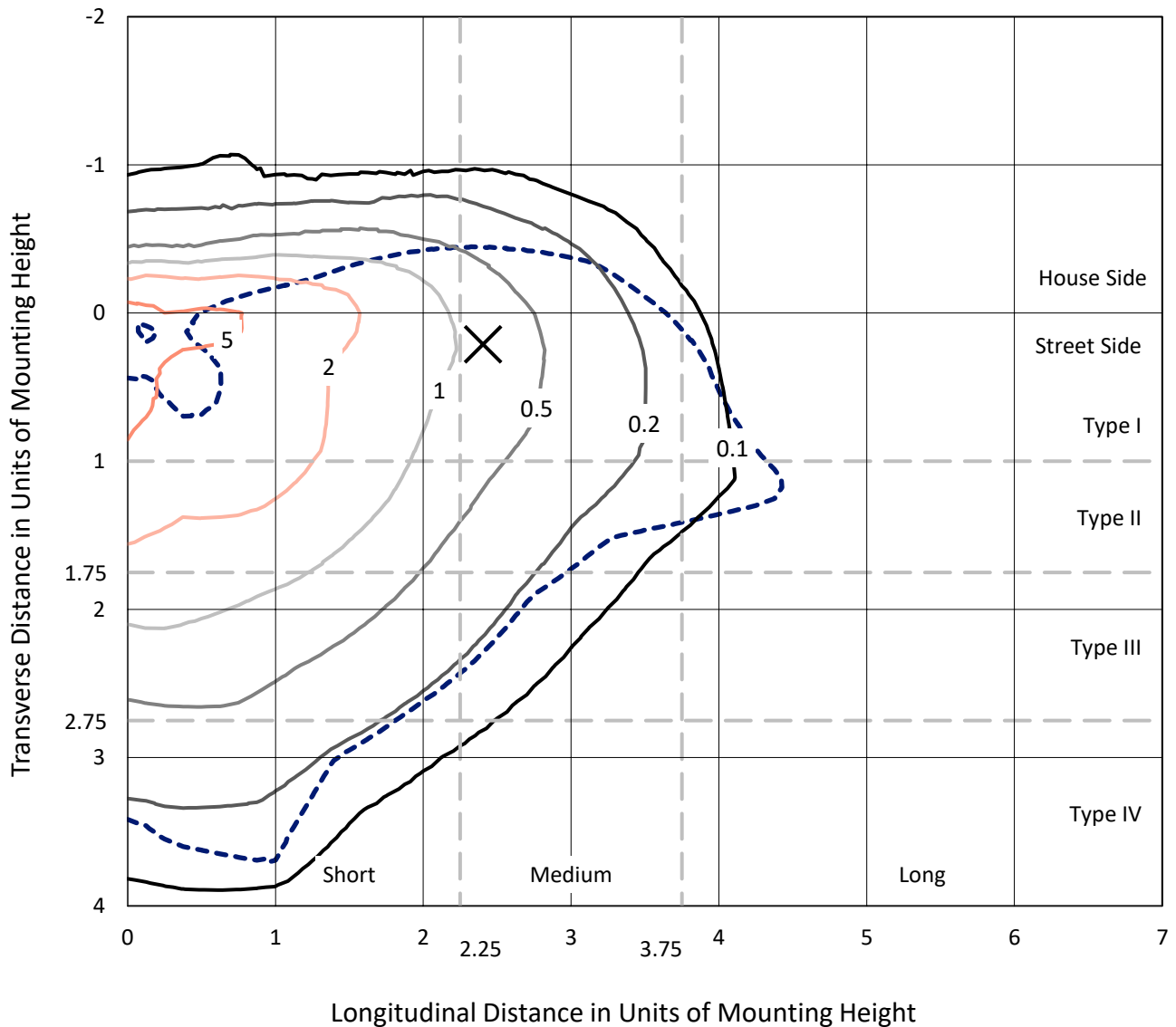
Lumens per Lamp: N/A
Luminaire Lumens: 4060.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

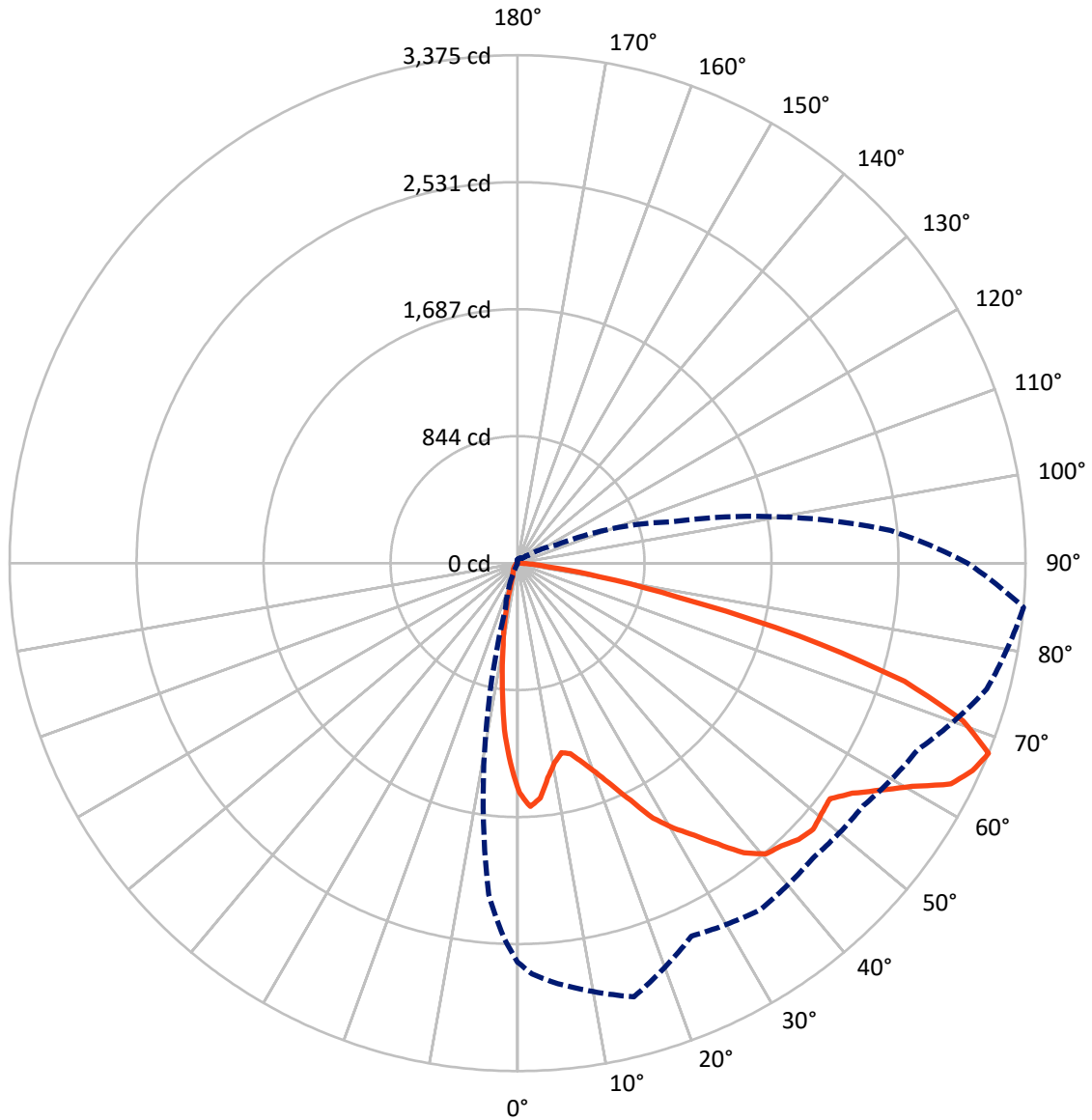
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 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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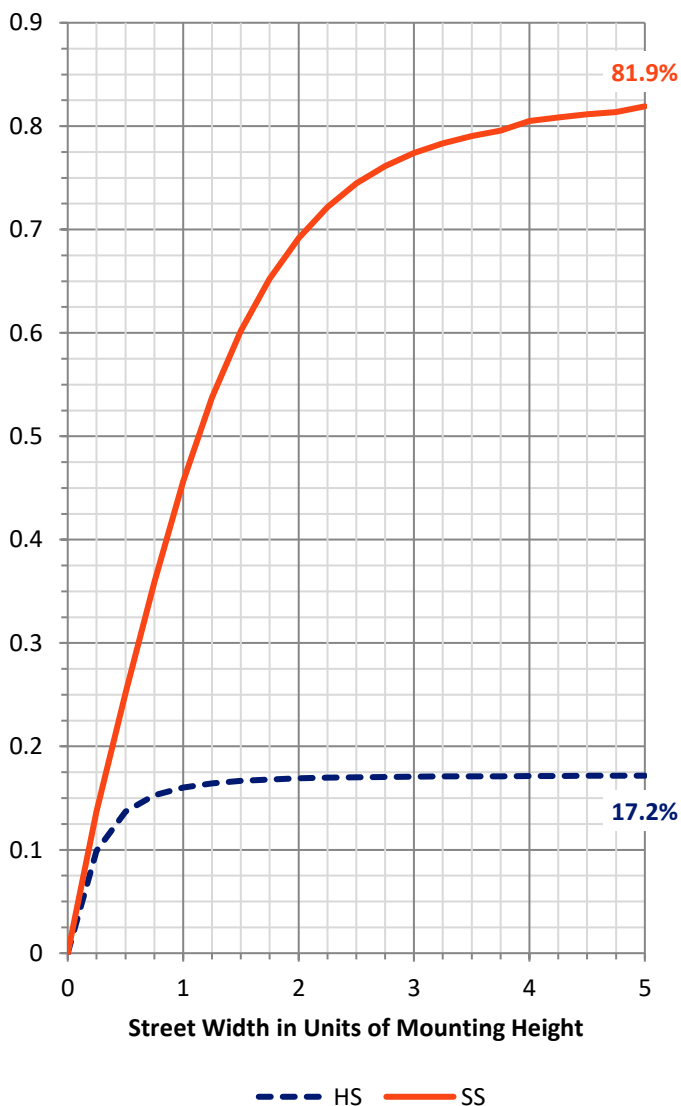
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.1	0.0	705.1
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3355.7	0.0	3355.7
	% Fixture	82.6	0.0	82.6
Total	Lumens	4060.8	0.0	4060.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	2.9
10°-20°	227.5	5.6
20°-30°	314.8	7.8
30°-40°	444.8	11.0
40°-50°	605.7	14.9
50°-60°	802.2	19.8
60°-70°	931.4	22.9
70°-80°	527.4	13.0
80°-90°	91.1	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°	4060.8	100.0
0°-180°	4060.8	100.0



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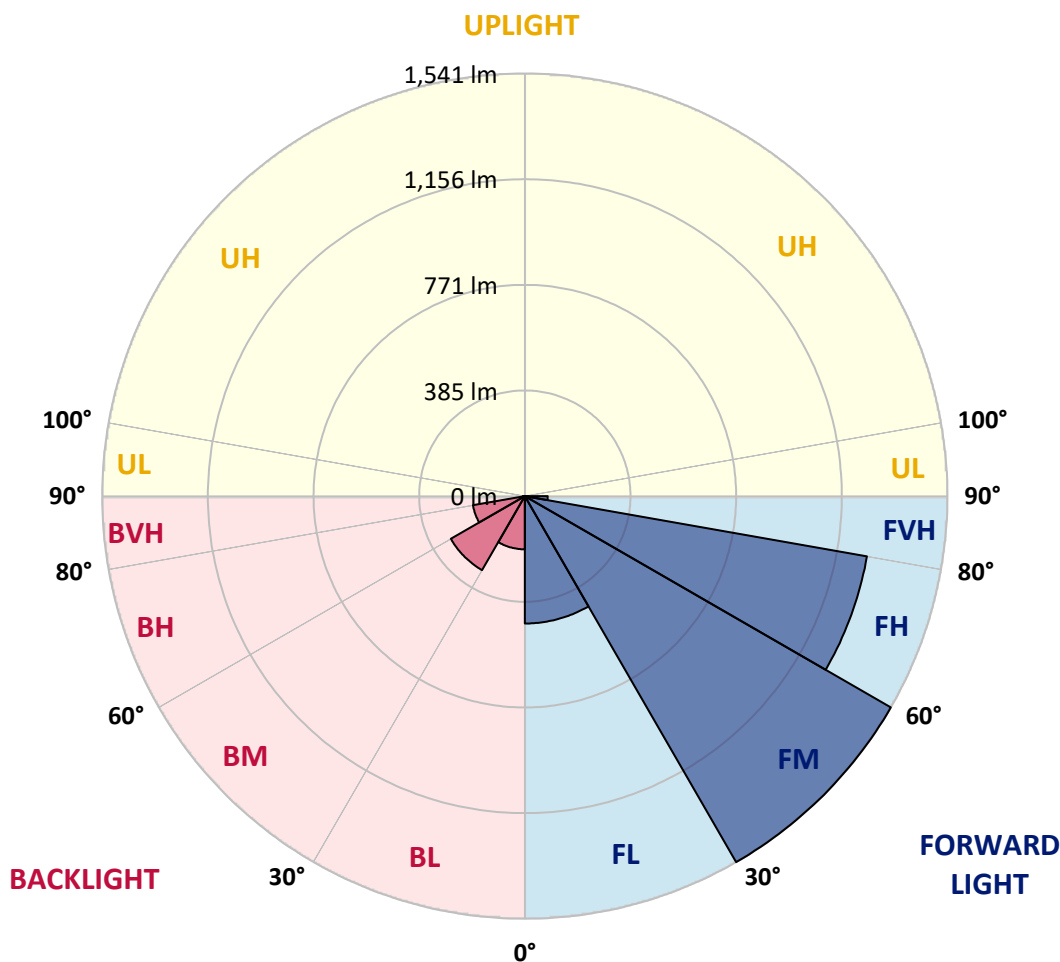
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.4	11.4			
FM (30°-60°)	1541.1	38.0			
FH (60°-80°)	1266.8	31.2			G1/1800
FVH (80°-90°)	83.5	2.1			G1/100
BL (0°-30°)	193.8	4.8	B1/500		
BM (30°-60°)	311.5	7.7	B1/1000		
BH (60°-80°)	192.0	4.7	B1/500		G1/500
BVH (80°-90°)	7.7	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°	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8
2.5°	1586.5	1620.1	1621.2	1636.4	1651.5	1651.5	1687.3	1678.6	1647.2	1641.8	1619.0
5°	1598.4	1610.3	1619.0	1696.0	1761.1	1754.6	1774.1	1761.1	1700.3	1622.3	1569.1
7.5°	1495.4	1508.4	1543.1	1674.3	1762.1	1791.4	1828.3	1747.0	1683.0	1542.0	1440.1
10°	1358.7	1383.7	1447.7	1597.3	1705.8	1799.0	1799.0	1734.0	1610.3	1472.6	1347.9
12.5°	1282.8	1332.7	1367.4	1519.2	1660.2	1724.2	1722.0	1687.3	1607.1	1433.6	1292.6
15°	1295.9	1310.0	1383.7	1501.9	1595.1	1591.9	1630.9	1620.1	1563.7	1468.3	1313.2
17.5°	1355.5	1377.2	1441.2	1501.9	1546.3	1533.3	1532.3	1584.3	1587.6	1526.8	1390.2
20°	1453.1	1517.1	1547.4	1565.9	1511.6	1456.3	1449.8	1522.5	1578.9	1601.7	1482.4
22.5°	1609.2	1651.5	1713.3	1619.0	1478.0	1408.6	1395.6	1475.9	1589.7	1690.6	1601.7
25°	1762.1	1794.7	1854.3	1732.9	1516.0	1398.9	1376.1	1445.5	1630.9	1814.2	1745.9
27.5°	1923.7	1951.9	1958.4	1816.4	1536.6	1379.4	1352.2	1445.5	1665.6	1879.3	1918.3
30°	2022.4	2056.0	2062.5	1890.1	1570.2	1395.6	1382.6	1452.0	1689.5	1934.6	2041.9
32.5°	2133.0	2141.7	2136.3	1903.1	1607.1	1443.3	1389.1	1495.4	1716.6	2000.7	2154.7
35°	2265.3	2280.5	2225.2	1962.8	1689.5	1473.7	1454.2	1548.5	1763.2	2031.1	2291.3
37.5°	2366.2	2413.9	2289.2	1985.5	1705.8	1537.7	1540.9	1659.1	1795.8	2067.9	2442.1
40°	2555.9	2475.7	2397.6	2063.6	1767.6	1646.1	1628.8	1773.0	1905.3	2091.8	2540.7
42.5°	2660.0	2617.7	2439.9	2071.2	1863.0	1795.8	1800.1	1902.0	1962.8	2159.0	2567.9
45°	2686.1	2641.6	2497.4	2076.6	1957.3	1972.5	2047.3	2066.9	2047.3	2203.5	2618.8
47.5°	2752.2	2655.7	2490.9	2149.3	2110.2	2168.8	2264.2	2306.5	2162.3	2187.2	2642.7
50°	2739.2	2683.9	2476.8	2179.6	2296.8	2451.8	2515.8	2498.4	2290.2	2153.6	2616.6
52.5°	2685.0	2625.3	2520.1	2262.1	2471.3	2658.9	2747.9	2704.5	2404.1	2229.5	2599.3
55°	2764.1	2718.6	2576.5	2373.7	2602.6	2841.1	2904.0	2871.5	2544.0	2300.0	2698.0
57.5°	2849.8	2840.0	2729.4	2505.0	2757.6	3028.7	3028.7	2988.6	2665.4	2401.9	2844.4
60°	2973.4	2995.1	2842.2	2591.7	2810.8	3017.9	3175.1	3128.5	2788.0	2580.9	3010.3
62.5°	2933.3	3002.7	2987.5	2778.2	2871.5	3071.0	3156.7	3191.4	2939.8	2798.8	3231.5
65°	2804.2	2878.0	2986.4	2900.8	2825.9	2942.0	2985.3	3090.5	3015.7	3003.8	3322.6
67.5°	2650.3	2730.5	2797.7	2983.2	2733.8	2810.8	2772.8	2806.4	2933.3	3228.2	3374.6
70°	2314.1	2391.1	2497.4	2799.9	2489.8	2420.4	2410.6	2394.3	2591.7	3148.0	3138.2
72.5°	1903.1	1938.9	2114.6	2276.1	1842.4	1829.4	1844.6	1826.1	2054.9	2849.8	2688.2
75°	1424.9	1460.7	1560.4	1748.0	1254.6	1179.8	1266.6	1352.2	1569.1	2212.2	1931.3
77.5°	1071.4	1116.9	1179.8	1307.8	920.7	803.5	815.5	896.8	1134.3	1771.9	1082.2
80°	695.1	689.7	811.1	900.0	692.9	714.6	684.3	743.9	822.0	947.8	553.0
82.5°	401.2	406.6	457.6	516.2	482.6	552.0	398.0	664.7	586.7	386.0	206.0
85°	225.6	235.3	281.9	357.9	302.5	202.8	165.9	329.7	368.7	158.3	99.8
87.5°	22.8	19.5	38.0	135.5	82.4	33.6	49.9	79.2	88.9	59.6	29.3
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°	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8
2.5°	1586.5	1586.5	1559.4	1513.8	1495.4	1462.9	1418.4	1432.5	1417.3	1362.0	1347.9
5°	1521.4	1469.4	1413.0	1343.6	1303.4	1221.0	1195.0	1148.4	1156.0	1109.3	1111.5
7.5°	1385.9	1344.7	1249.2	1158.1	1079.0	1007.4	906.6	868.6	831.7	813.3	835.0
10°	1306.7	1229.7	1099.6	980.3	875.1	811.1	743.9	691.8	644.1	608.3	600.8
12.5°	1249.2	1180.9	1023.7	878.4	795.9	743.9	682.1	610.5	563.9	502.1	483.6
15°	1231.9	1148.4	982.5	838.2	758.0	672.3	601.8	531.4	470.6	405.6	382.8
17.5°	1291.5	1195.0	981.4	805.7	692.9	600.8	503.2	424.0	362.2	302.5	288.4
20°	1392.4	1244.9	1012.8	786.2	631.1	507.5	396.9	317.7	248.3	209.3	199.5
22.5°	1507.3	1329.5	1016.1	734.1	569.3	414.2	289.5	209.3	170.3	151.8	146.4
25°	1648.3	1465.0	1055.1	691.8	496.7	314.5	206.0	160.5	137.7	126.9	124.7
27.5°	1764.3	1559.4	1097.4	647.4	425.1	233.1	161.6	131.2	119.3	108.4	107.4
30°	1884.7	1667.8	1109.3	620.3	363.3	191.9	138.8	116.0	103.0	97.6	96.5
32.5°	1989.9	1786.0	1147.3	575.8	304.7	169.2	125.8	104.1	95.4	86.8	85.7
35°	2125.4	1854.3	1165.7	552.0	283.0	152.9	114.9	95.4	82.4	77.0	74.8
37.5°	2270.7	1920.5	1177.7	533.5	264.6	143.1	108.4	90.0	78.1	70.5	68.3
40°	2406.3	2013.7	1160.3	510.8	250.5	131.2	104.1	83.5	72.7	65.1	61.8
42.5°	2510.4	2104.8	1154.9	489.1	235.3	126.9	98.7	80.2	68.3	59.6	58.6
45°	2568.9	2166.6	1116.9	471.7	223.4	129.0	96.5	75.9	65.1	57.5	53.1
47.5°	2554.8	2214.3	1126.7	466.3	207.1	120.4	95.4	72.7	59.6	53.1	49.9
50°	2632.9	2310.8	1110.4	448.9	195.2	108.4	104.1	72.7	58.6	51.0	47.7
52.5°	2645.9	2398.7	1145.1	417.5	176.8	99.8	103.0	71.6	56.4	48.8	44.5
55°	2754.4	2500.6	1212.4	400.1	161.6	86.8	94.3	69.4	51.0	44.5	42.3
57.5°	2901.8	2712.1	1255.7	383.9	141.0	75.9	79.2	68.3	46.6	41.2	38.0
60°	3043.9	2796.7	1259.0	354.6	121.5	68.3	61.8	68.3	43.4	36.9	33.6
62.5°	3150.2	2796.7	1237.3	329.7	106.3	60.7	54.2	65.1	39.0	32.5	30.4
65°	3092.7	2721.8	1180.9	309.1	96.5	53.1	46.6	49.9	34.7	28.2	26.0
67.5°	2989.7	2488.7	1056.2	284.1	95.4	46.6	40.1	36.9	30.4	24.9	22.8
70°	2824.9	2174.2	879.4	255.9	93.3	42.3	35.8	31.4	27.1	21.7	19.5
72.5°	2276.1	1795.8	722.2	239.7	91.1	36.9	30.4	27.1	22.8	18.4	16.3
75°	1576.7	1147.3	556.3	205.0	88.9	33.6	28.2	23.9	19.5	15.2	14.1
77.5°	945.6	766.7	358.9	154.0	58.6	27.1	23.9	18.4	16.3	13.0	11.9
80°	442.4	362.2	145.3	59.6	28.2	19.5	16.3	14.1	13.0	10.8	9.8
82.5°	173.5	152.9	70.5	34.7	22.8	15.2	13.0	11.9	10.8	8.7	7.6
85°	93.3	82.4	33.6	23.9	16.3	10.8	10.8	9.8	8.7	7.6	6.5
87.5°	20.6	15.2	14.1	14.1	11.9	8.7	8.7	7.6	6.5	5.4	4.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8
2.5°	1340.3	1356.6	1330.6	1346.8	1324.0	1341.4	1343.6	1327.3	1331.6	1353.3	1363.1
5°	1141.9	1131.0	1107.2	1099.6	1100.7	1086.6	1092.0	1099.6	1111.5	1118.0	1137.5
7.5°	823.1	848.0	846.9	865.3	866.4	864.3	849.1	816.6	827.4	818.7	829.6
10°	588.8	599.7	620.3	632.2	653.9	642.0	607.3	594.2	587.7	586.7	597.5
12.5°	470.6	444.6	442.4	446.8	457.6	443.5	426.2	411.0	418.6	433.8	445.7
15°	364.4	342.7	314.5	310.1	312.3	305.8	287.4	267.8	273.3	288.4	297.1
17.5°	279.8	254.8	235.3	222.3	218.0	195.2	168.1	151.8	147.5	146.4	154.0
20°	188.7	184.3	181.1	164.8	164.8	132.3	109.5	97.6	97.6	99.8	100.8
22.5°	141.0	135.5	136.6	133.4	124.7	98.7	86.8	83.5	83.5	85.7	85.7
25°	122.5	114.9	112.8	111.7	103.0	84.6	75.9	72.7	72.7	74.8	74.8
27.5°	104.1	101.9	98.7	94.3	86.8	72.7	67.2	64.0	65.1	66.1	65.1
30°	95.4	90.0	85.7	85.7	77.0	65.1	60.7	58.6	56.4	58.6	59.6
32.5°	84.6	81.3	79.2	75.9	66.1	57.5	53.1	51.0	49.9	49.9	51.0
35°	72.7	72.7	70.5	66.1	57.5	52.1	46.6	44.5	43.4	44.5	44.5
37.5°	65.1	61.8	62.9	58.6	51.0	45.5	40.1	38.0	38.0	36.9	38.0
40°	60.7	55.3	52.1	49.9	45.5	39.0	34.7	32.5	31.4	31.4	31.4
42.5°	54.2	49.9	43.4	42.3	41.2	33.6	28.2	27.1	26.0	24.9	24.9
45°	51.0	44.5	39.0	33.6	33.6	28.2	23.9	21.7	20.6	19.5	20.6
47.5°	46.6	40.1	33.6	28.2	27.1	22.8	18.4	16.3	15.2	15.2	15.2
50°	44.5	35.8	29.3	23.9	20.6	18.4	14.1	11.9	10.8	10.8	10.8
52.5°	41.2	33.6	26.0	20.6	16.3	14.1	10.8	8.7	7.6	7.6	7.6
55°	36.9	30.4	22.8	17.4	14.1	10.8	7.6	5.4	4.3	4.3	4.3
57.5°	34.7	27.1	19.5	15.2	10.8	7.6	4.3	3.3	3.3	2.2	3.3
60°	31.4	23.9	16.3	11.9	8.7	5.4	3.3	1.1	1.1	1.1	1.1
62.5°	27.1	20.6	14.1	9.8	6.5	3.3	1.1	0.0	0.0	0.0	0.0
65°	22.8	16.3	10.8	7.6	4.3	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	19.5	14.1	8.7	5.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	17.4	11.9	6.5	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14.1	9.8	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.9	7.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.8	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.6	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.1	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°	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8	1526.8
2.5°	1377.2	1370.7	1403.2	1456.3	1483.5	1536.6	1549.6	1583.2	1574.5	1586.5
5°	1139.7	1152.7	1200.4	1278.5	1306.7	1383.7	1456.3	1529.0	1575.6	1598.4
7.5°	845.8	889.2	947.8	1019.3	1092.0	1192.8	1316.5	1401.0	1446.6	1495.4
10°	630.0	676.7	743.9	814.4	932.6	1045.4	1169.0	1274.2	1313.2	1358.7
12.5°	495.6	568.2	646.3	722.2	792.7	900.0	1052.9	1205.8	1248.1	1282.8
15°	344.8	433.8	545.5	644.1	742.8	836.1	994.4	1179.8	1237.3	1295.9
17.5°	190.9	261.3	389.3	528.1	673.4	816.6	1013.9	1227.5	1314.3	1355.5
20°	110.6	138.8	229.9	394.7	586.7	774.3	1023.7	1317.5	1432.5	1453.1
22.5°	91.1	100.8	130.1	247.2	480.4	747.1	1073.6	1443.3	1560.4	1609.2
25°	78.1	85.7	100.8	148.6	363.3	689.7	1105.0	1600.6	1709.0	1762.1
27.5°	69.4	77.0	88.9	109.5	247.2	610.5	1157.1	1742.6	1851.1	1923.7
30°	60.7	67.2	79.2	93.3	171.3	521.6	1201.5	1846.7	1999.6	2022.4
32.5°	54.2	59.6	68.3	80.2	126.9	395.8	1237.3	1954.1	2083.1	2133.0
35°	46.6	53.1	58.6	68.3	96.5	298.2	1215.6	2037.6	2205.7	2265.3
37.5°	41.2	45.5	51.0	57.5	81.3	233.1	1171.1	2137.3	2310.8	2366.2
40°	34.7	38.0	44.5	51.0	73.7	180.0	1120.2	2257.7	2458.3	2555.9
42.5°	29.3	32.5	36.9	47.7	60.7	133.4	1017.2	2351.0	2577.6	2660.0
45°	22.8	27.1	33.6	47.7	48.8	98.7	910.9	2420.4	2644.8	2686.1
47.5°	17.4	21.7	32.5	41.2	39.0	68.3	785.1	2499.5	2714.2	2752.2
50°	13.0	17.4	36.9	35.8	32.5	52.1	705.9	2554.8	2718.6	2739.2
52.5°	8.7	13.0	30.4	27.1	27.1	45.5	684.3	2552.7	2729.4	2685.0
55°	6.5	9.8	17.4	19.5	23.9	40.1	664.7	2634.0	2732.7	2764.1
57.5°	4.3	7.6	11.9	15.2	20.6	34.7	624.6	2731.6	2833.5	2849.8
60°	2.2	5.4	8.7	11.9	17.4	30.4	568.2	2803.2	2956.1	2973.4
62.5°	1.1	3.3	6.5	9.8	14.1	23.9	509.7	2689.3	2902.9	2933.3
65°	0.0	2.2	4.3	6.5	8.7	17.4	414.2	2428.0	2692.6	2804.2
67.5°	0.0	0.0	2.2	4.3	5.4	13.0	312.3	2208.9	2498.4	2650.3
70°	0.0	0.0	1.1	1.1	3.3	9.8	199.5	1829.4	2230.6	2314.1
72.5°	0.0	0.0	0.0	0.0	1.1	6.5	116.0	1358.7	1748.0	1903.1
75°	0.0	0.0	0.0	0.0	0.0	5.4	58.6	874.0	1216.7	1424.9
77.5°	0.0	0.0	0.0	0.0	0.0	4.3	31.4	563.9	896.8	1071.4
80°	0.0	0.0	0.0	0.0	0.0	1.1	18.4	327.5	573.6	695.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	160.5	342.7	401.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	85.7	171.3	225.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	11.9	22.8
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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