

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: P677432

Luminaire Tested: **CCW-SA-2A-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677432
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

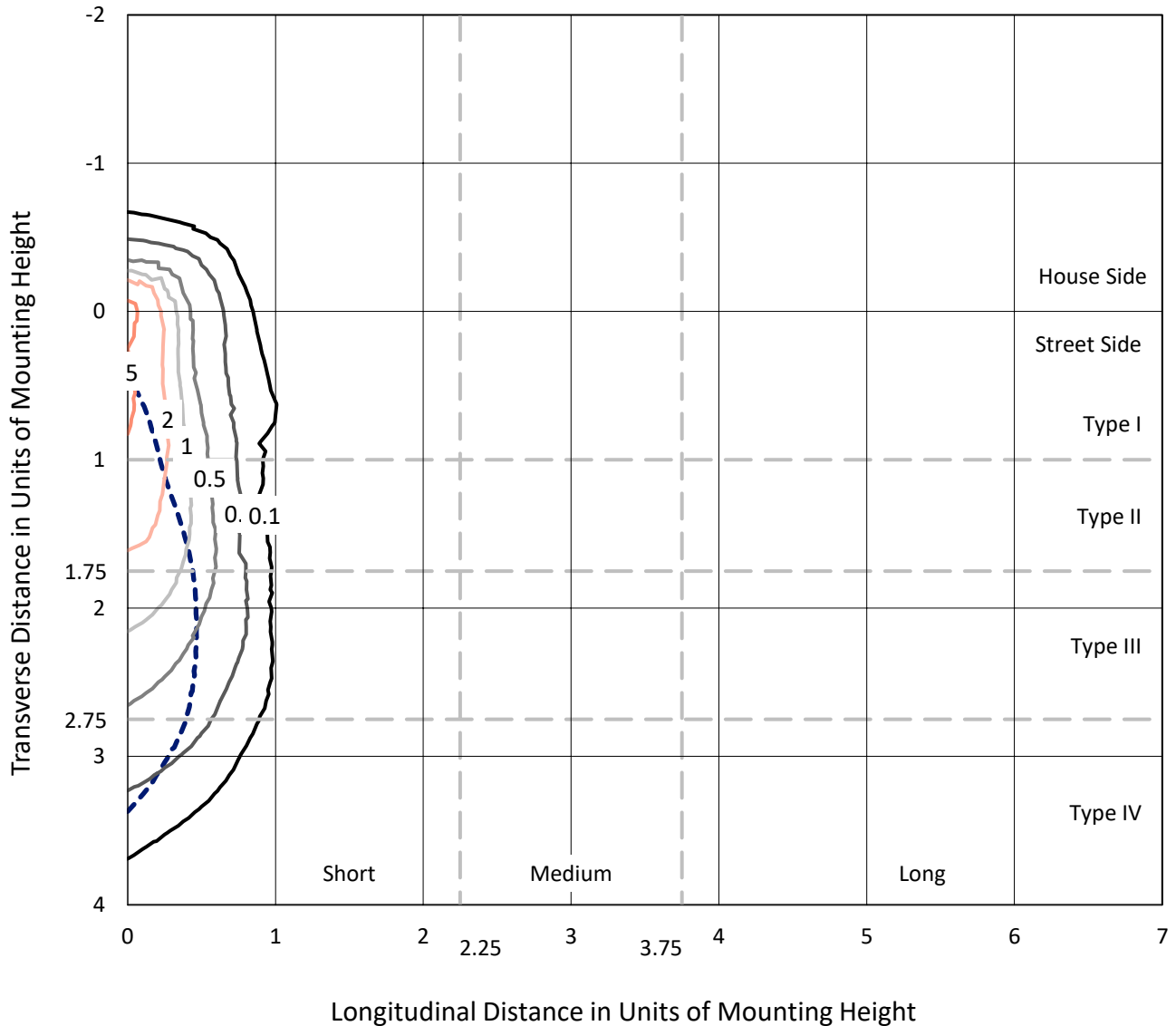
Lumens per Lamp: N/A
Luminaire Lumens: 3932.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

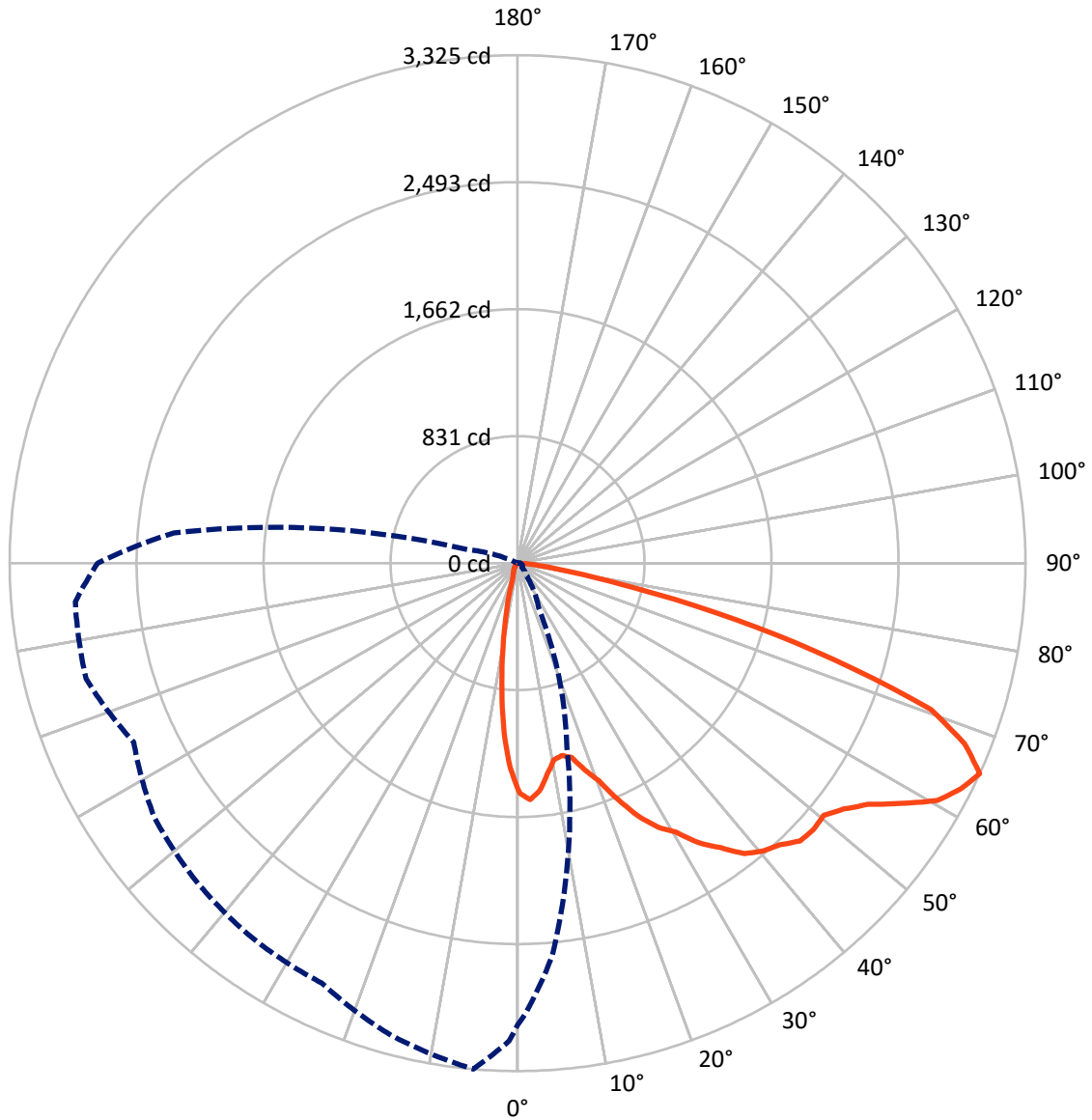
× Max cd
 - - - 1/2 Max cd



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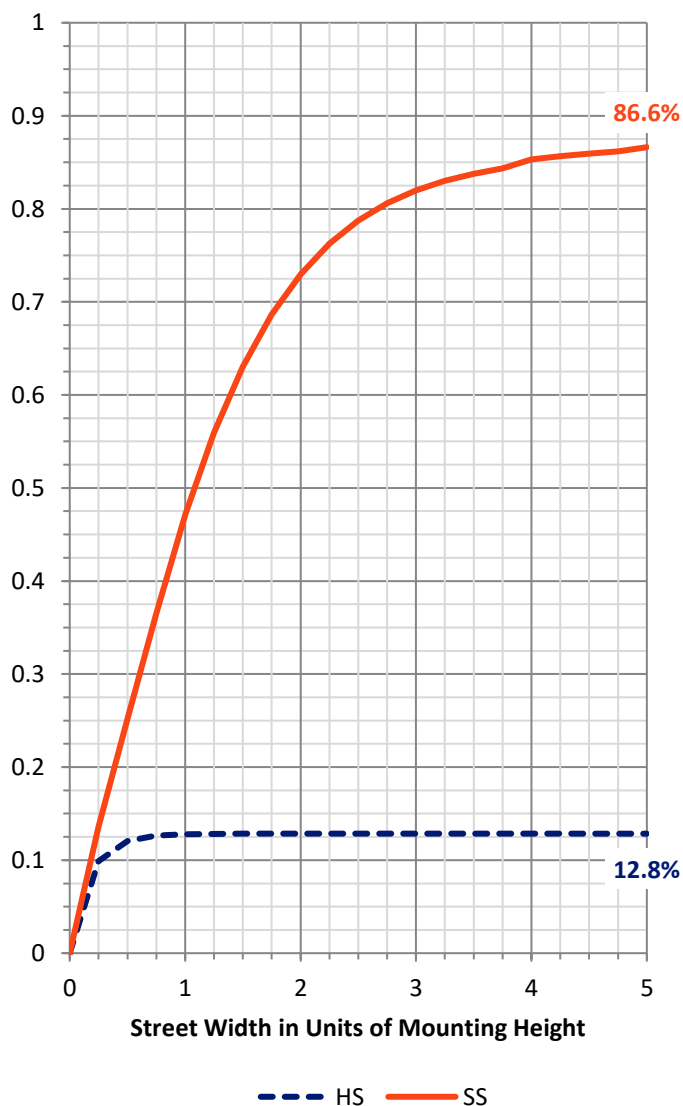
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	510.5	0.0	510.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3421.6	0.0	3421.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	3932.1	0.0	3932.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	2.9
10°-20°	220.5	5.6
20°-30°	307.1	7.8
30°-40°	436.3	11.1
40°-50°	605.1	15.4
50°-60°	824.5	21.0
60°-70°	906.4	23.1
70°-80°	445.5	11.3
80°-90°	72.8	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°	3932.1	100.0
0°-180°	3932.1	100.0



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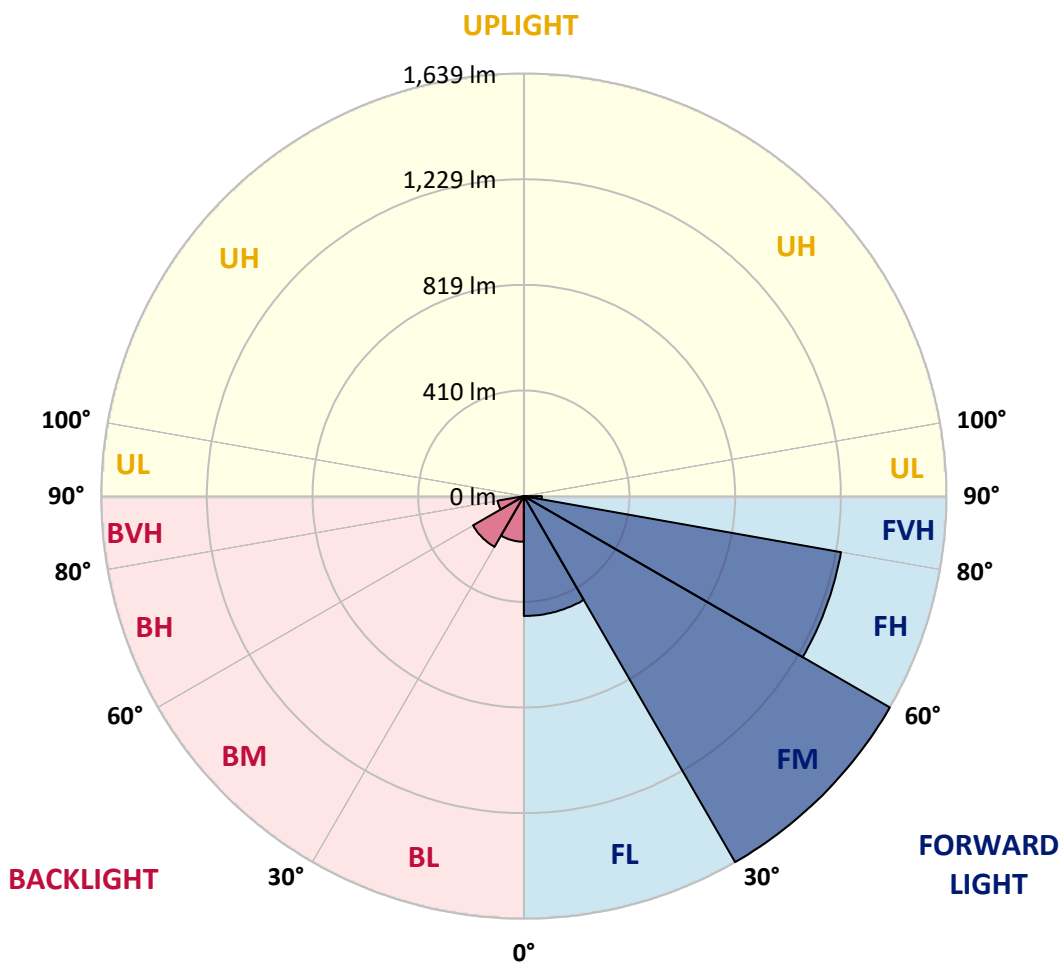
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.7	11.8			
FM (30°-60°)	1638.6	41.7			
FH (60°-80°)	1248.8	31.8			G1/1800
FVH (80°-90°)	69.5	1.8			G1/100
BL (0°-30°)	176.8	4.5	B1/500		
BM (30°-60°)	227.3	5.8	B1/1000		
BH (60°-80°)	103.2	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°	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1534.0	1552.0	1535.0	1475.7	1465.1	1436.4	1393.0	1389.8	1344.2	1349.5	1325.1
5°	1441.7	1459.8	1423.7	1345.3	1272.1	1213.8	1178.8	1116.3	1102.5	1071.8	1071.8
7.5°	1347.4	1346.3	1284.9	1219.1	1109.9	1002.9	954.1	864.0	811.0	782.4	754.8
10°	1269.0	1252.0	1213.8	1078.1	959.4	848.1	787.7	728.3	673.2	625.5	577.8
12.5°	1213.8	1224.4	1164.0	1016.6	862.9	785.5	720.9	658.3	592.6	538.5	485.5
15°	1242.4	1225.5	1154.5	1002.9	847.0	741.0	655.1	578.8	505.7	434.6	394.4
17.5°	1331.5	1288.0	1204.3	1002.9	814.2	673.2	569.3	479.2	400.7	337.1	287.3
20°	1451.3	1401.5	1311.4	1040.0	789.8	623.3	481.3	367.9	286.2	226.9	188.7
22.5°	1574.3	1535.0	1399.3	1054.8	761.2	556.6	379.5	266.1	190.8	152.7	133.6
25°	1721.6	1666.5	1518.1	1114.2	718.8	491.9	299.0	185.5	142.1	121.9	110.3
27.5°	1839.3	1829.7	1629.4	1150.2	687.0	438.9	236.4	147.4	117.7	102.8	95.4
30°	1987.7	1935.8	1765.1	1222.3	650.9	378.5	197.2	132.5	108.1	92.2	86.9
32.5°	2076.8	2052.4	1836.1	1262.6	610.6	328.6	169.6	116.6	98.6	86.9	81.6
35°	2206.1	2157.3	1937.9	1288.0	589.4	300.0	152.7	106.0	82.7	71.0	64.7
37.5°	2350.3	2332.2	2059.8	1287.0	558.7	283.0	141.0	98.6	78.4	65.7	58.3
40°	2497.6	2424.5	2134.0	1316.7	542.8	270.3	132.5	94.3	74.2	62.5	53.0
42.5°	2607.9	2524.1	2219.9	1306.1	523.7	248.1	129.3	88.0	71.0	57.2	48.8
45°	2637.6	2607.9	2297.3	1302.9	509.9	230.0	124.0	86.9	68.9	54.1	45.6
47.5°	2694.8	2674.7	2392.7	1308.2	499.3	216.3	111.3	89.0	65.7	50.9	43.5
50°	2720.2	2684.2	2470.1	1320.9	474.9	199.3	99.7	93.3	64.7	49.8	41.3
52.5°	2825.2	2793.4	2576.1	1356.9	454.8	177.0	88.0	89.0	66.8	46.6	39.2
55°	2928.0	2892.0	2739.3	1439.6	426.2	159.0	75.3	78.4	63.6	42.4	35.0
57.5°	3069.0	3009.6	2848.5	1473.6	400.7	134.6	66.8	64.7	59.4	38.2	30.7
60°	3090.2	3114.6	2832.6	1452.3	374.2	118.7	58.3	49.8	63.6	33.9	26.5
62.5°	3161.2	3059.5	2758.4	1403.6	355.1	109.2	51.9	41.3	55.1	29.7	22.3
65°	3024.5	2949.2	2584.5	1246.7	330.8	110.3	45.6	33.9	35.0	24.4	18.0
67.5°	2824.1	2764.8	2296.2	1076.0	306.4	108.1	40.3	29.7	26.5	21.2	15.9
70°	2478.5	2350.3	1950.6	873.5	270.3	100.7	33.9	26.5	22.3	17.0	11.7
72.5°	1803.2	1751.3	1399.3	675.3	242.8	91.2	31.8	22.3	19.1	12.7	9.5
75°	1213.8	1128.0	883.1	443.1	195.1	79.5	26.5	20.1	14.8	9.5	7.4
77.5°	641.4	606.4	500.4	211.0	108.1	37.1	14.8	11.7	8.5	7.4	4.2
80°	277.7	247.0	216.3	85.9	38.2	17.0	9.5	6.4	5.3	4.2	2.1
82.5°	142.1	135.7	112.4	37.1	22.3	12.7	5.3	4.2	3.2	2.1	1.1
85°	70.0	72.1	59.4	11.7	12.7	7.4	1.1	1.1	0.0	0.0	0.0
87.5°	5.3	5.3	4.2	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°	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1315.6	1330.4	1305.0	1320.9	1313.5	1316.7	1319.8	1311.4	1313.5	1343.2	1344.2
5°	1053.7	1082.4	1071.8	1086.6	1112.1	1099.3	1111.0	1108.9	1111.0	1115.2	1134.3
7.5°	751.6	743.1	763.3	802.5	848.1	875.6	861.9	854.4	850.2	839.6	852.3
10°	567.2	562.9	557.6	569.3	599.0	629.7	646.7	618.0	602.1	582.0	574.6
12.5°	470.7	444.2	429.3	411.3	419.8	447.4	448.4	420.9	395.4	384.8	396.5
15°	371.0	353.0	326.5	301.1	288.3	309.6	291.5	265.0	232.2	227.9	226.9
17.5°	265.0	254.4	235.3	224.7	209.9	204.6	185.5	145.2	121.9	115.6	117.7
20°	180.2	171.7	170.7	161.1	154.8	150.5	119.8	93.3	85.9	86.9	88.0
22.5°	133.6	129.3	124.0	123.0	117.7	112.4	88.0	78.4	73.1	73.1	76.3
25°	109.2	107.1	101.8	99.7	97.5	90.1	74.2	66.8	64.7	62.5	65.7
27.5°	93.3	92.2	89.0	85.9	83.7	76.3	64.7	58.3	56.2	56.2	56.2
30°	83.7	83.7	79.5	73.1	73.1	64.7	55.1	50.9	48.8	48.8	47.7
32.5°	78.4	76.3	71.0	66.8	63.6	55.1	48.8	44.5	41.3	41.3	42.4
35°	63.6	63.6	62.5	59.4	55.1	46.6	41.3	37.1	35.0	33.9	35.0
37.5°	56.2	53.0	48.8	49.8	47.7	40.3	35.0	31.8	28.6	28.6	28.6
40°	50.9	47.7	43.5	40.3	39.2	36.0	30.7	25.4	22.3	21.2	21.2
42.5°	45.6	43.5	37.1	31.8	30.7	30.7	23.3	19.1	15.9	15.9	15.9
45°	42.4	39.2	33.9	27.6	22.3	23.3	19.1	13.8	11.7	10.6	10.6
47.5°	40.3	37.1	29.7	23.3	17.0	17.0	13.8	9.5	7.4	6.4	6.4
50°	37.1	33.9	26.5	19.1	12.7	10.6	8.5	5.3	3.2	2.1	2.1
52.5°	35.0	31.8	23.3	15.9	10.6	7.4	5.3	1.1	0.0	0.0	0.0
55°	31.8	27.6	20.1	12.7	8.5	4.2	1.1	0.0	0.0	0.0	0.0
57.5°	27.6	24.4	15.9	9.5	5.3	1.1	0.0	0.0	0.0	0.0	0.0
60°	23.3	20.1	12.7	7.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19.1	17.0	9.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15.9	12.7	7.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13.8	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.6	7.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.4	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°	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1348.5	1380.3	1409.9	1418.4	1441.7	1506.4	1506.4	1537.2	1592.3	1612.4	1616.7
5°	1137.5	1171.4	1177.8	1243.5	1274.3	1340.0	1383.4	1487.3	1549.9	1589.1	1613.5
7.5°	865.0	876.7	901.1	962.6	1023.0	1102.5	1185.2	1317.7	1428.0	1472.5	1555.2
10°	594.7	629.7	682.7	737.8	832.2	920.2	1027.2	1152.3	1288.0	1343.2	1414.2
12.5°	400.7	449.5	534.3	612.7	699.7	788.7	890.5	1058.0	1211.7	1288.0	1359.1
15°	234.3	293.7	366.8	494.0	609.6	709.2	811.0	980.6	1167.2	1265.8	1352.7
17.5°	118.7	136.8	197.2	307.4	460.1	623.3	774.9	991.2	1201.1	1322.0	1394.0
20°	89.0	94.3	111.3	163.3	314.9	515.2	741.0	1007.1	1295.5	1442.8	1482.0
22.5°	77.4	81.6	89.0	106.0	177.0	394.4	693.3	1046.3	1423.7	1562.6	1645.3
25°	65.7	70.0	76.3	86.9	113.4	268.2	635.0	1087.7	1538.2	1713.1	1790.5
27.5°	57.2	60.4	66.8	75.3	92.2	170.7	534.3	1142.8	1713.1	1895.5	1915.6
30°	48.8	51.9	57.2	66.8	78.4	120.9	392.2	1150.2	1809.6	1975.0	2031.2
32.5°	42.4	43.5	49.8	58.3	65.7	95.4	275.6	1157.6	1880.6	2077.8	2089.5
35°	35.0	37.1	43.5	48.8	57.2	75.3	208.8	1120.5	1972.9	2183.8	2180.6
37.5°	28.6	31.8	36.0	40.3	46.6	63.6	166.4	1051.6	2088.4	2348.1	2248.5
40°	22.3	25.4	29.7	35.0	39.2	57.2	125.1	947.7	2209.3	2428.7	2322.7
42.5°	15.9	18.0	22.3	27.6	35.0	47.7	90.1	824.8	2257.0	2523.1	2411.7
45°	11.7	13.8	17.0	23.3	36.0	38.2	62.5	712.4	2307.9	2564.4	2391.6
47.5°	6.4	8.5	12.7	20.1	31.8	28.6	44.5	611.7	2366.2	2601.5	2407.5
50°	2.1	3.2	7.4	21.2	25.4	22.3	35.0	557.6	2423.4	2608.9	2439.3
52.5°	0.0	0.0	4.2	22.3	19.1	17.0	30.7	536.4	2408.6	2632.2	2419.2
55°	0.0	0.0	1.1	9.5	10.6	12.7	25.4	535.4	2513.5	2639.7	2529.4
57.5°	0.0	0.0	0.0	3.2	6.4	10.6	22.3	501.4	2580.3	2824.1	2677.8
60°	0.0	0.0	0.0	1.1	4.2	7.4	17.0	471.7	2648.2	2906.8	2836.9
62.5°	0.0	0.0	0.0	0.0	1.1	3.2	11.7	426.2	2511.4	2900.5	2990.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	337.1	2259.1	2748.9	2905.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	233.2	1978.2	2558.0	2749.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141.0	1596.5	2243.2	2332.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.4	1139.6	1781.0	1913.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4	705.0	1301.8	1465.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	456.9	985.9	1112.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	243.8	618.0	718.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.0	375.3	432.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	227.9	259.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0	46.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1618.8	1649.5	1661.2	1643.2	1645.3	1608.2	1602.9	1550.9	1529.7	1534.0
5°	1693.0	1737.5	1761.9	1741.8	1696.2	1625.1	1560.5	1499.0	1460.8	1441.7
7.5°	1676.0	1725.9	1756.6	1775.7	1723.7	1609.2	1510.7	1395.1	1346.3	1347.4
10°	1582.7	1686.6	1749.2	1724.8	1700.4	1585.9	1433.3	1308.2	1264.7	1269.0
12.5°	1507.5	1623.0	1660.1	1679.2	1629.4	1538.2	1435.4	1292.3	1243.5	1213.8
15°	1460.8	1546.7	1548.8	1578.5	1558.4	1558.4	1457.6	1317.7	1275.3	1242.4
17.5°	1460.8	1479.9	1477.8	1488.4	1522.3	1562.6	1513.8	1420.5	1336.8	1331.5
20°	1493.7	1434.3	1420.5	1424.8	1453.4	1573.2	1637.9	1521.3	1468.3	1451.3
22.5°	1570.0	1439.6	1355.9	1341.0	1429.0	1572.1	1717.4	1680.3	1588.0	1574.3
25°	1675.0	1430.1	1338.9	1319.8	1386.6	1610.3	1826.6	1834.0	1750.2	1721.6
27.5°	1774.6	1472.5	1336.8	1332.6	1420.5	1601.8	1901.8	1957.0	1862.6	1839.3
30°	1808.5	1514.9	1376.0	1319.8	1433.3	1632.6	1899.7	2043.9	1982.4	1987.7
32.5°	1848.8	1557.3	1380.3	1358.0	1487.3	1682.4	1960.1	2183.8	2139.3	2076.8
35°	1908.2	1614.5	1420.5	1400.4	1525.5	1726.9	1972.9	2286.7	2279.2	2206.1
37.5°	1959.1	1670.7	1504.3	1507.5	1642.1	1799.0	2029.0	2412.8	2400.1	2350.3
40°	1995.1	1749.2	1634.7	1643.2	1743.9	1879.6	2128.7	2476.4	2570.8	2497.6
42.5°	2000.4	1819.1	1784.2	1852.0	1946.4	2004.7	2169.0	2519.9	2655.6	2607.9
45°	2020.6	1930.5	2028.0	2077.8	2155.2	2114.9	2166.9	2594.1	2661.9	2637.6
47.5°	2099.0	2132.9	2255.9	2407.5	2435.1	2302.6	2217.7	2605.7	2698.0	2694.8
50°	2180.6	2350.3	2523.1	2623.8	2658.8	2431.9	2265.5	2596.2	2745.7	2720.2
52.5°	2271.8	2539.0	2788.1	2912.1	2893.0	2575.0	2319.5	2673.6	2833.7	2825.2
55°	2329.1	2623.8	2958.8	3131.6	3116.7	2735.1	2491.3	2784.9	2949.2	2928.0
57.5°	2480.7	2761.6	3128.4	3208.9	3248.2	2945.0	2611.0	2967.2	3045.7	3069.0
60°	2605.7	2851.7	3172.9	3289.5	3303.3	3070.1	2820.9	3154.9	3168.7	3090.2
62.5°	2789.1	2886.7	3078.6	3183.5	3254.5	3141.1	3009.6	3255.6	3166.5	3161.2
65°	2923.8	2772.2	2902.6	2960.9	3006.5	3033.0	3199.4	3324.5	3127.3	3024.5
67.5°	2848.5	2555.9	2531.5	2534.7	2548.5	2708.6	3135.8	3155.9	2908.9	2824.1
70°	2507.2	2096.9	2064.0	2089.5	2020.6	2213.5	2878.2	2868.7	2566.5	2478.5
72.5°	2028.0	1528.7	1472.5	1507.5	1523.4	1728.0	2421.3	2175.3	1872.2	1803.2
75°	1611.4	1120.5	945.6	1030.4	1084.5	1258.3	1891.2	1477.8	1307.1	1213.8
77.5°	1265.8	848.1	735.7	701.8	751.6	914.9	1376.0	776.0	684.8	641.4
80°	802.5	623.3	676.3	627.6	648.8	653.0	716.6	353.0	280.9	277.7
82.5°	483.4	426.2	506.7	278.8	507.8	453.7	297.9	160.1	142.1	142.1
85°	342.4	264.0	174.9	113.4	225.8	249.1	115.6	82.7	72.1	70.0
87.5°	171.7	81.6	39.2	25.4	28.6	46.6	13.8	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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