

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: P677400

Luminaire Tested: **CCW-SA-2B-727-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677400
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-727-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

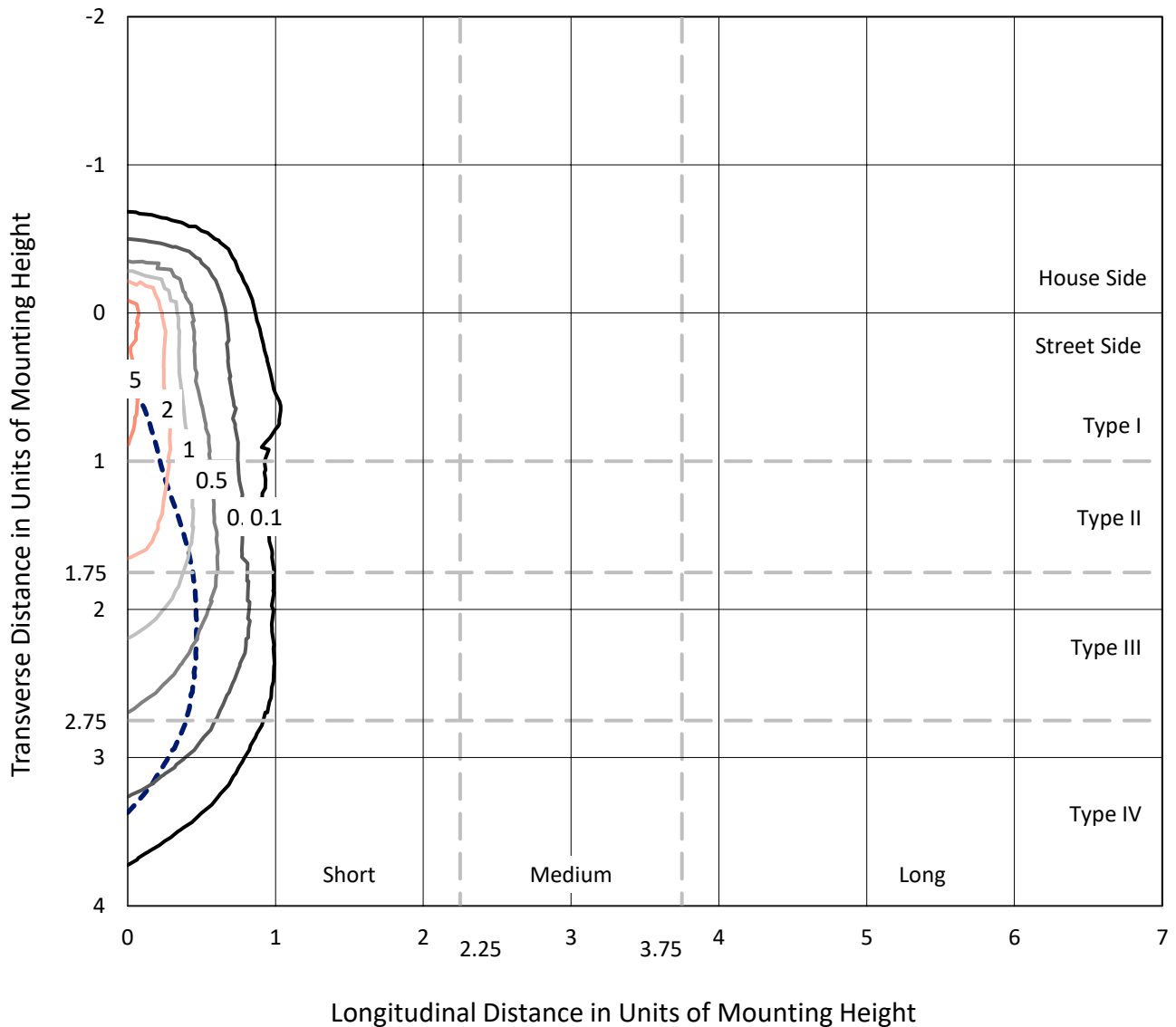
Lumens per Lamp: N/A
Luminaire Lumens: 4150.6 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

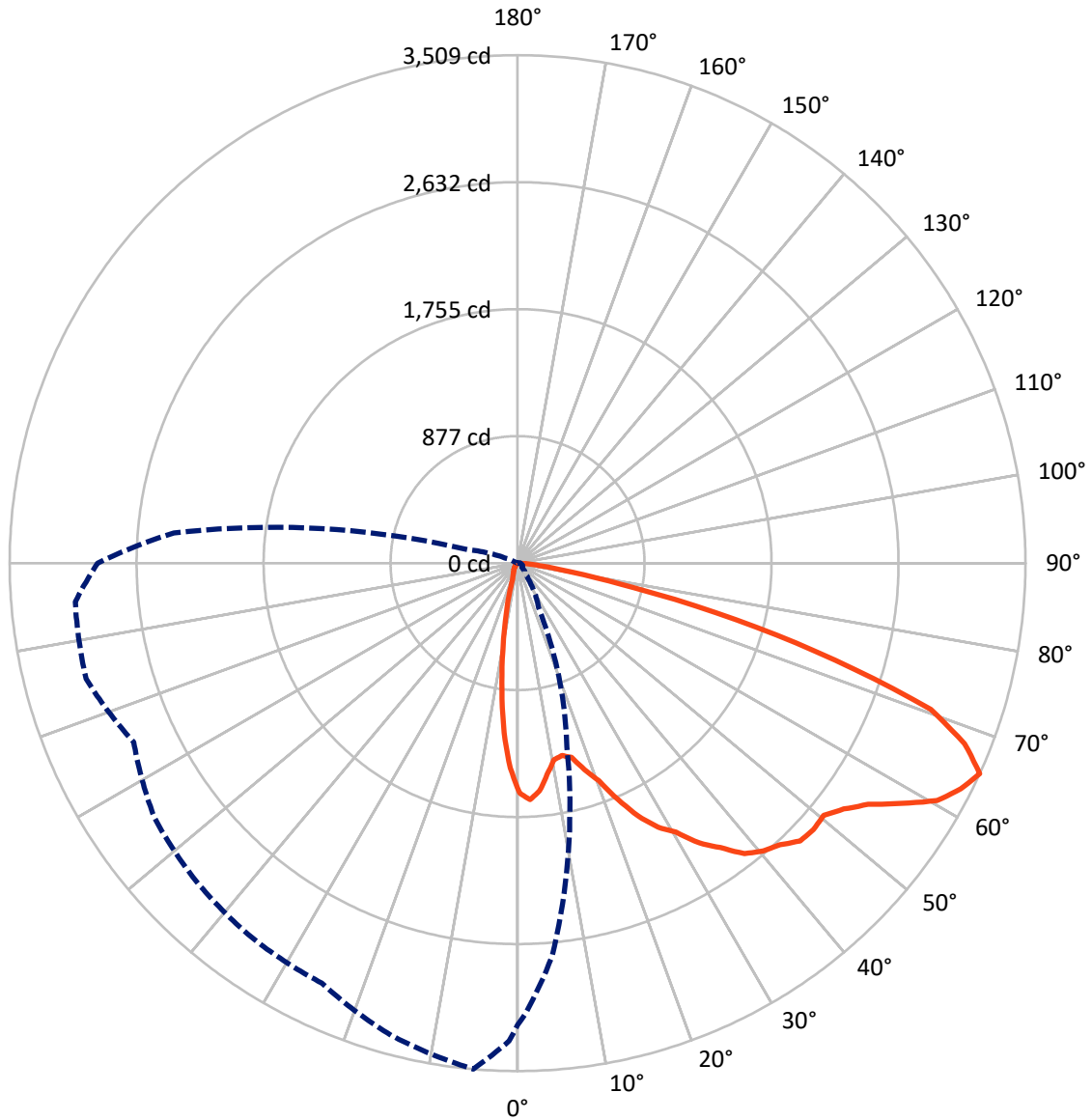
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 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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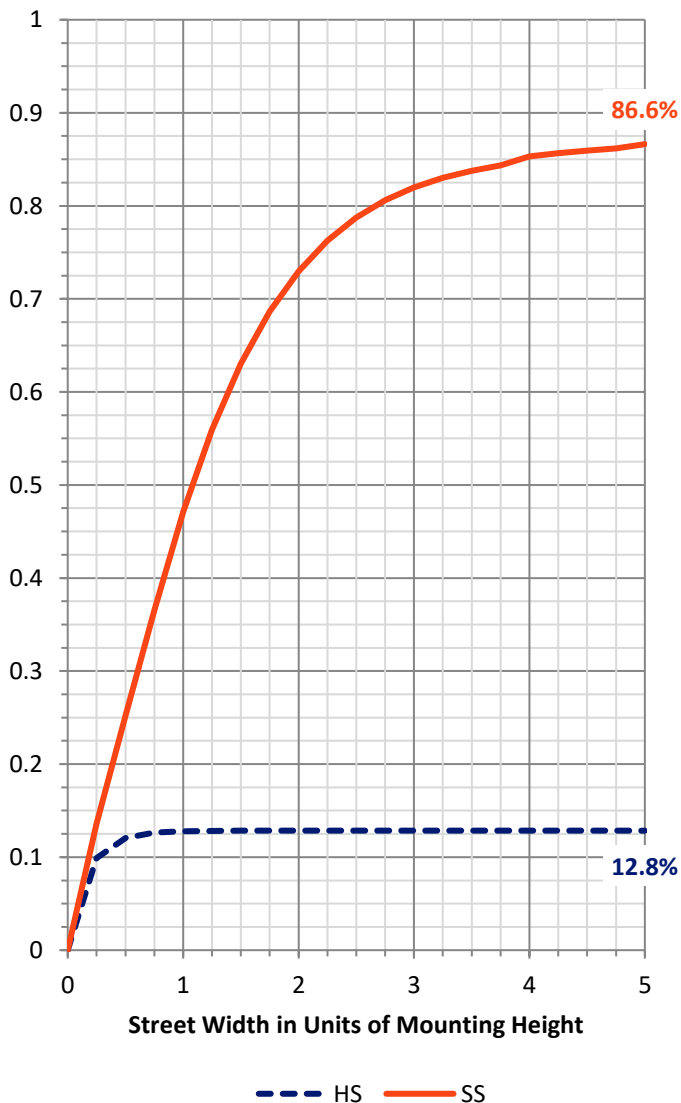
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.9	0.0	538.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3611.7	0.0	3611.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	4150.6	0.0	4150.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	2.9
10°-20°	232.7	5.6
20°-30°	324.2	7.8
30°-40°	460.6	11.1
40°-50°	638.7	15.4
50°-60°	870.3	21.0
60°-70°	956.8	23.1
70°-80°	470.3	11.3
80°-90°	76.8	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°	4150.6	100.0
0°-180°	4150.6	100.0



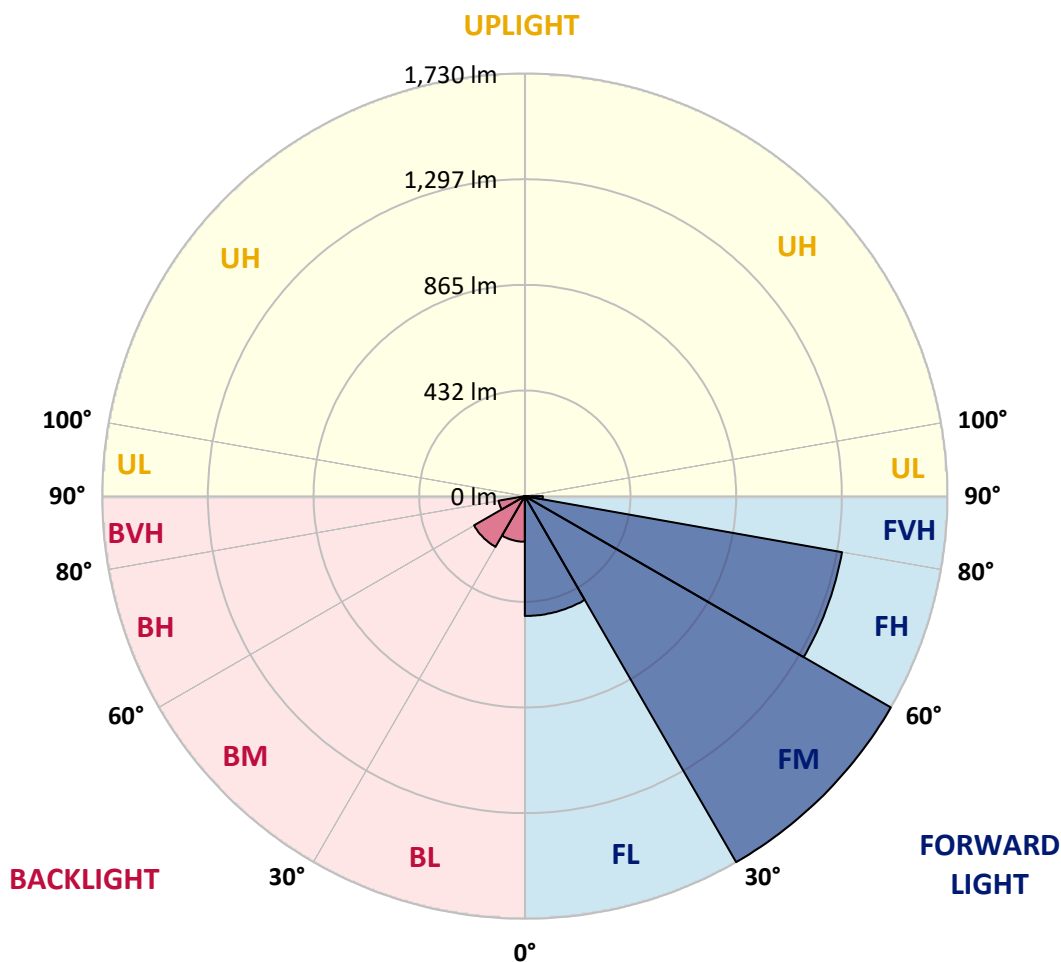
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.5	11.8			
FM (30°-60°)	1729.7	41.7			
FH (60°-80°)	1318.2	31.8			G1/1800
FVH (80°-90°)	73.3	1.8			G1/100
BL (0°-30°)	186.6	4.5	B1/500		
BM (30°-60°)	239.9	5.8	B1/1000		
BH (60°-80°)	108.9	2.6	B0/110		G0/110
BVH (80°-90°)	3.5	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°	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8
2.5°	1619.2	1638.2	1620.3	1557.7	1546.5	1516.3	1470.4	1467.0	1418.9	1424.5	1398.8
5°	1521.9	1540.9	1502.8	1420.0	1342.8	1281.3	1244.3	1178.3	1163.8	1131.3	1131.3
7.5°	1422.3	1421.1	1356.2	1286.9	1171.6	1058.6	1007.1	912.0	856.0	825.8	796.7
10°	1339.5	1321.6	1281.3	1138.0	1012.7	895.2	831.4	768.8	710.6	660.2	609.9
12.5°	1281.3	1292.5	1228.7	1073.1	910.9	829.2	760.9	694.9	625.5	568.5	512.5
15°	1311.5	1293.6	1218.6	1058.6	894.1	782.2	691.6	611.0	533.8	458.8	416.3
17.5°	1405.5	1359.6	1271.2	1058.6	859.4	710.6	600.9	505.8	423.0	355.8	303.3
20°	1531.9	1479.3	1384.2	1097.8	833.7	658.0	508.0	388.3	302.1	239.5	199.2
22.5°	1661.7	1620.3	1477.1	1113.4	803.5	587.5	400.6	280.9	201.4	161.1	141.0
25°	1817.3	1759.1	1602.4	1176.1	758.7	519.2	315.6	195.8	149.9	128.7	116.4
27.5°	1941.5	1931.4	1719.9	1214.1	725.1	463.3	249.5	155.5	124.2	108.5	100.7
30°	2098.1	2043.3	1863.2	1290.2	687.1	399.5	208.1	139.9	114.1	97.4	91.8
32.5°	2192.1	2166.4	1938.1	1332.7	644.6	346.9	179.0	123.1	104.1	91.8	86.2
35°	2328.7	2277.2	2045.6	1359.6	622.2	316.7	161.1	111.9	87.3	75.0	68.3
37.5°	2480.9	2461.8	2174.2	1358.5	589.7	298.8	148.8	104.1	82.8	69.4	61.5
40°	2636.4	2559.2	2252.6	1389.8	572.9	285.3	139.9	99.6	78.3	66.0	56.0
42.5°	2752.8	2664.4	2343.2	1378.6	552.8	261.8	136.5	92.9	75.0	60.4	51.5
45°	2784.1	2752.8	2424.9	1375.3	538.2	242.8	130.9	91.8	72.7	57.1	48.1
47.5°	2844.5	2823.3	2525.6	1380.9	527.1	228.3	117.5	94.0	69.4	53.7	45.9
50°	2871.4	2833.3	2607.3	1394.3	501.3	210.4	105.2	98.5	68.3	52.6	43.6
52.5°	2982.2	2948.6	2719.2	1432.3	480.1	186.9	92.9	94.0	70.5	49.2	41.4
55°	3090.7	3052.7	2891.5	1519.6	449.8	167.9	79.4	82.8	67.1	44.8	36.9
57.5°	3239.5	3176.9	3006.8	1555.4	423.0	142.1	70.5	68.3	62.7	40.3	32.5
60°	3261.9	3287.7	2990.0	1533.0	395.0	125.3	61.5	52.6	67.1	35.8	28.0
62.5°	3336.9	3229.5	2911.7	1481.6	374.9	115.3	54.8	43.6	58.2	31.3	23.5
65°	3192.5	3113.1	2728.2	1316.0	349.1	116.4	48.1	35.8	36.9	25.7	19.0
67.5°	2981.1	2918.4	2423.8	1135.8	323.4	114.1	42.5	31.3	28.0	22.4	16.8
70°	2616.3	2480.9	2059.0	922.1	285.3	106.3	35.8	28.0	23.5	17.9	12.3
72.5°	1903.4	1848.6	1477.1	712.8	256.3	96.2	33.6	23.5	20.1	13.4	10.1
75°	1281.3	1190.6	932.1	467.7	205.9	83.9	28.0	21.3	15.7	10.1	7.8
77.5°	677.0	640.1	528.2	222.7	114.1	39.2	15.7	12.3	9.0	7.8	4.5
80°	293.2	260.7	228.3	90.6	40.3	17.9	10.1	6.7	5.6	4.5	2.2
82.5°	149.9	143.2	118.6	39.2	23.5	13.4	5.6	4.5	3.4	2.2	1.1
85°	73.9	76.1	62.7	12.3	13.4	7.8	1.1	1.1	0.0	0.0	0.0
87.5°	5.6	5.6	4.5	2.2	3.4	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°	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8
2.5°	1388.7	1404.4	1377.5	1394.3	1386.5	1389.8	1393.2	1384.2	1386.5	1417.8	1418.9
5°	1112.3	1142.5	1131.3	1147.0	1173.8	1160.4	1172.7	1170.5	1172.7	1177.2	1197.3
7.5°	793.4	784.4	805.7	847.1	895.2	924.3	909.8	901.9	897.4	886.3	899.7
10°	598.7	594.2	588.6	600.9	632.2	664.7	682.6	652.4	635.6	614.3	606.5
12.5°	496.8	468.9	453.2	434.2	443.1	472.2	473.3	444.2	417.4	406.2	418.5
15°	391.7	372.6	344.7	317.8	304.4	326.8	307.7	279.8	245.1	240.6	239.5
17.5°	279.8	268.6	248.4	237.2	221.6	216.0	195.8	153.3	128.7	122.0	124.2
20°	190.2	181.3	180.2	170.1	163.4	158.9	126.4	98.5	90.6	91.8	92.9
22.5°	141.0	136.5	130.9	129.8	124.2	118.6	92.9	82.8	77.2	77.2	80.6
25°	115.3	113.0	107.4	105.2	102.9	95.1	78.3	70.5	68.3	66.0	69.4
27.5°	98.5	97.4	94.0	90.6	88.4	80.6	68.3	61.5	59.3	59.3	59.3
30°	88.4	88.4	83.9	77.2	77.2	68.3	58.2	53.7	51.5	51.5	50.4
32.5°	82.8	80.6	75.0	70.5	67.1	58.2	51.5	47.0	43.6	43.6	44.8
35°	67.1	67.1	66.0	62.7	58.2	49.2	43.6	39.2	36.9	35.8	36.9
37.5°	59.3	56.0	51.5	52.6	50.4	42.5	36.9	33.6	30.2	30.2	30.2
40°	53.7	50.4	45.9	42.5	41.4	38.0	32.5	26.9	23.5	22.4	22.4
42.5°	48.1	45.9	39.2	33.6	32.5	32.5	24.6	20.1	16.8	16.8	16.8
45°	44.8	41.4	35.8	29.1	23.5	24.6	20.1	14.5	12.3	11.2	11.2
47.5°	42.5	39.2	31.3	24.6	17.9	17.9	14.5	10.1	7.8	6.7	6.7
50°	39.2	35.8	28.0	20.1	13.4	11.2	9.0	5.6	3.4	2.2	2.2
52.5°	36.9	33.6	24.6	16.8	11.2	7.8	5.6	1.1	0.0	0.0	0.0
55°	33.6	29.1	21.3	13.4	9.0	4.5	1.1	0.0	0.0	0.0	0.0
57.5°	29.1	25.7	16.8	10.1	5.6	1.1	0.0	0.0	0.0	0.0	0.0
60°	24.6	21.3	13.4	7.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20.1	17.9	10.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16.8	13.4	7.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14.5	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.2	7.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.8	5.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.4	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°	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8
2.5°	1423.4	1457.0	1488.3	1497.2	1521.9	1590.1	1590.1	1622.6	1680.8	1702.0	1706.5
5°	1200.7	1236.5	1243.2	1312.6	1345.1	1414.4	1460.3	1570.0	1636.0	1677.4	1703.1
7.5°	913.1	925.4	951.2	1016.1	1079.8	1163.8	1251.1	1390.9	1507.3	1554.3	1641.6
10°	627.8	664.7	720.6	778.8	878.4	971.3	1084.3	1216.4	1359.6	1417.8	1492.8
12.5°	423.0	474.5	564.0	646.8	738.5	832.5	940.0	1116.8	1279.0	1359.6	1434.6
15°	247.3	310.0	387.2	521.5	643.4	748.6	856.0	1035.1	1232.0	1336.1	1427.9
17.5°	125.3	144.4	208.1	324.5	485.7	658.0	818.0	1046.3	1267.8	1395.4	1471.5
20°	94.0	99.6	117.5	172.3	332.3	543.8	782.2	1063.1	1367.4	1523.0	1564.4
22.5°	81.7	86.2	94.0	111.9	186.9	416.3	731.8	1104.5	1502.8	1649.4	1736.7
25°	69.4	73.9	80.6	91.8	119.7	283.1	670.3	1148.1	1623.7	1808.3	1890.0
27.5°	60.4	63.8	70.5	79.4	97.4	180.2	564.0	1206.3	1808.3	2000.8	2022.1
30°	51.5	54.8	60.4	70.5	82.8	127.6	414.0	1214.1	1910.2	2084.7	2144.0
32.5°	44.8	45.9	52.6	61.5	69.4	100.7	290.9	1222.0	1985.1	2193.3	2205.6
35°	36.9	39.2	45.9	51.5	60.4	79.4	220.4	1182.8	2082.5	2305.2	2301.8
37.5°	30.2	33.6	38.0	42.5	49.2	67.1	175.7	1110.1	2204.5	2478.6	2373.4
40°	23.5	26.9	31.3	36.9	41.4	60.4	132.0	1000.4	2332.0	2563.7	2451.8
42.5°	16.8	19.0	23.5	29.1	36.9	50.4	95.1	870.6	2382.4	2663.3	2545.8
45°	12.3	14.5	17.9	24.6	38.0	40.3	66.0	752.0	2436.1	2706.9	2524.5
47.5°	6.7	9.0	13.4	21.3	33.6	30.2	47.0	645.7	2497.6	2746.1	2541.3
50°	2.2	3.4	7.8	22.4	26.9	23.5	36.9	588.6	2558.1	2753.9	2574.8
52.5°	0.0	0.0	4.5	23.5	20.1	17.9	32.5	566.2	2542.4	2778.5	2553.6
55°	0.0	0.0	1.1	10.1	11.2	13.4	26.9	565.1	2653.2	2786.3	2670.0
57.5°	0.0	0.0	0.0	3.4	6.7	11.2	23.5	529.3	2723.7	2981.1	2826.6
60°	0.0	0.0	0.0	1.1	4.5	7.8	17.9	498.0	2795.3	3068.3	2994.5
62.5°	0.0	0.0	0.0	0.0	1.1	3.4	12.3	449.8	2650.9	3061.6	3156.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	355.8	2384.6	2901.6	3067.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	246.2	2088.1	2700.2	2902.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.8	1685.2	2367.8	2461.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.8	1202.9	1879.9	2019.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.7	744.1	1374.1	1546.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	482.3	1040.7	1173.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	257.4	652.4	758.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.9	396.1	456.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.8	240.6	274.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9	49.2
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°	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8	1586.8
2.5°	1708.7	1741.2	1753.5	1734.5	1736.7	1697.5	1691.9	1637.1	1614.7	1619.2
5°	1787.1	1834.1	1859.8	1838.5	1790.4	1715.4	1647.2	1582.3	1542.0	1521.9
7.5°	1769.2	1821.8	1854.2	1874.3	1819.5	1698.7	1594.6	1472.6	1421.1	1422.3
10°	1670.7	1780.3	1846.4	1820.6	1794.9	1674.0	1512.9	1380.9	1335.0	1339.5
12.5°	1591.2	1713.2	1752.4	1772.5	1719.9	1623.7	1515.1	1364.1	1312.6	1281.3
15°	1542.0	1632.6	1634.9	1666.2	1644.9	1644.9	1538.6	1390.9	1346.2	1311.5
17.5°	1542.0	1562.1	1559.9	1571.1	1606.9	1649.4	1598.0	1499.5	1411.1	1405.5
20°	1576.7	1514.0	1499.5	1504.0	1534.2	1660.6	1728.9	1605.8	1549.8	1531.9
22.5°	1657.3	1519.6	1431.2	1415.6	1508.4	1659.5	1812.8	1773.6	1676.3	1661.7
25°	1768.0	1509.5	1413.3	1393.2	1463.7	1699.8	1928.1	1935.9	1847.5	1817.3
27.5°	1873.2	1554.3	1411.1	1406.6	1499.5	1690.8	2007.5	2065.7	1966.1	1941.5
30°	1909.0	1599.1	1452.5	1393.2	1512.9	1723.3	2005.3	2157.5	2092.6	2098.1
32.5°	1951.6	1643.8	1457.0	1433.5	1570.0	1775.9	2069.1	2305.2	2258.2	2192.1
35°	2014.2	1704.3	1499.5	1478.2	1610.3	1822.9	2082.5	2413.7	2405.9	2328.7
37.5°	2067.9	1763.6	1587.9	1591.2	1733.4	1899.0	2141.8	2546.9	2533.4	2480.9
40°	2106.0	1846.4	1725.5	1734.5	1840.8	1984.0	2247.0	2614.0	2713.6	2636.4
42.5°	2111.6	1920.2	1883.3	1954.9	2054.5	2116.1	2289.5	2659.9	2803.1	2752.8
45°	2132.8	2037.7	2140.7	2193.3	2275.0	2232.4	2287.3	2738.2	2809.8	2784.1
47.5°	2215.6	2251.5	2381.3	2541.3	2570.4	2430.5	2341.0	2750.5	2847.9	2844.5
50°	2301.8	2480.9	2663.3	2769.6	2806.5	2567.0	2391.3	2740.5	2898.2	2871.4
52.5°	2398.0	2680.0	2943.0	3073.9	3053.8	2718.1	2448.4	2822.2	2991.1	2982.2
55°	2458.5	2769.6	3123.2	3305.6	3289.9	2887.1	2629.7	2939.6	3113.1	3090.7
57.5°	2618.5	2915.0	3302.2	3387.3	3428.7	3108.6	2756.1	3132.1	3214.9	3239.5
60°	2750.5	3010.1	3349.2	3472.3	3486.8	3240.7	2977.7	3330.2	3344.7	3261.9
62.5°	2944.1	3047.1	3249.6	3360.4	3435.4	3315.6	3176.9	3436.5	3342.5	3336.9
65°	3086.2	2926.2	3063.9	3125.4	3173.5	3201.5	3377.2	3509.2	3301.1	3192.5
67.5°	3006.8	2697.9	2672.2	2675.6	2690.1	2859.1	3310.0	3331.3	3070.6	2981.1
70°	2646.5	2213.4	2178.7	2205.6	2132.8	2336.5	3038.1	3028.0	2709.1	2616.3
72.5°	2140.7	1613.6	1554.3	1591.2	1608.0	1824.0	2555.8	2296.2	1976.2	1903.4
75°	1700.9	1182.8	998.2	1087.7	1144.8	1328.3	1996.3	1559.9	1379.7	1281.3
77.5°	1336.1	895.2	776.6	740.8	793.4	965.7	1452.5	819.1	722.9	677.0
80°	847.1	658.0	713.9	662.5	684.8	689.3	756.5	372.6	296.5	293.2
82.5°	510.3	449.8	534.9	294.3	536.0	478.9	314.4	169.0	149.9	149.9
85°	361.4	278.6	184.6	119.7	238.3	263.0	122.0	87.3	76.1	73.9
87.5°	181.3	86.2	41.4	26.9	30.2	49.2	14.5	6.7	6.7	5.6
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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