

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: P675816

Luminaire Tested: **CCW-SA-2B-727-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675816
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-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

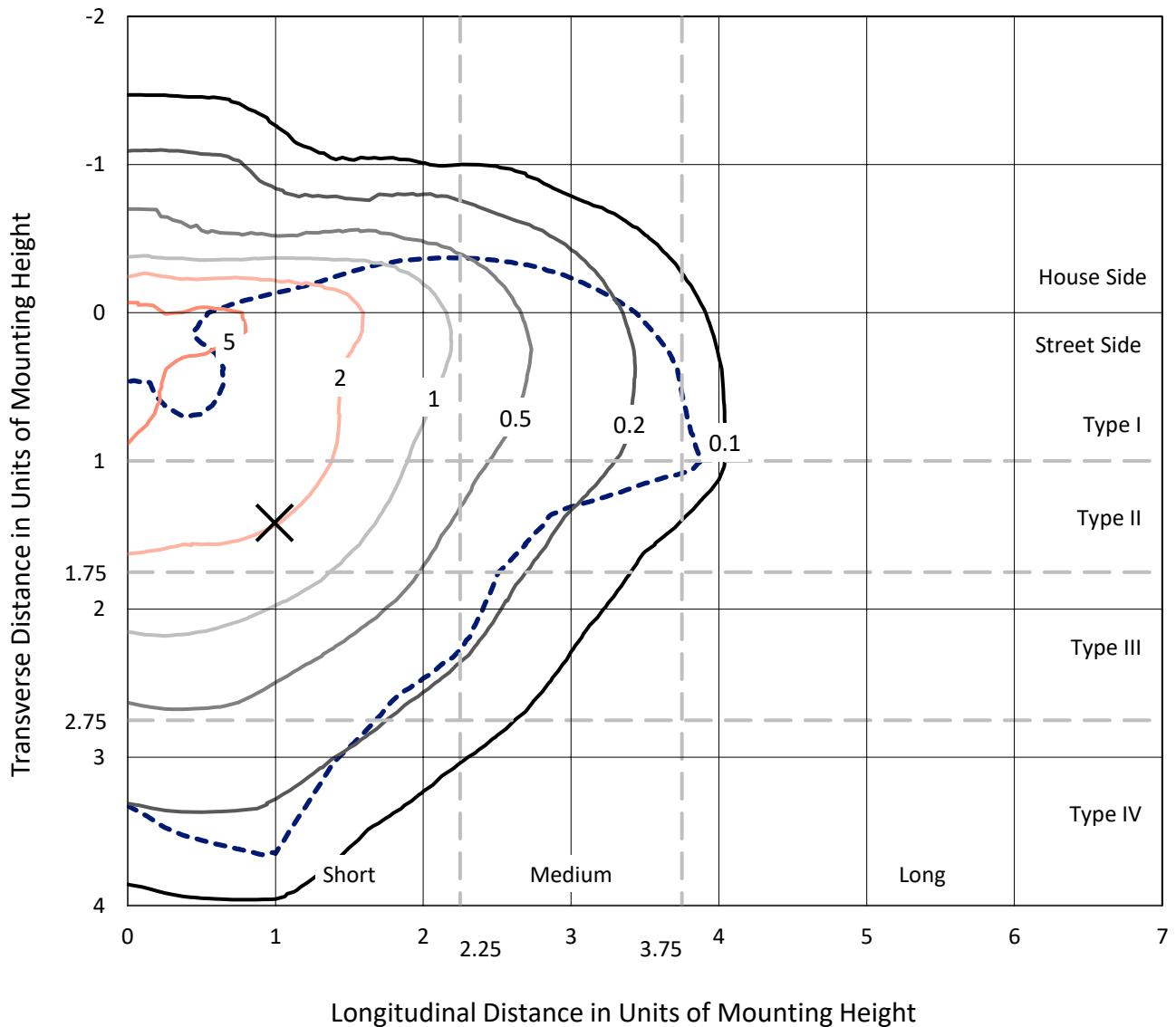
Lumens per Lamp: N/A
Luminaire Lumens: 4792.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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

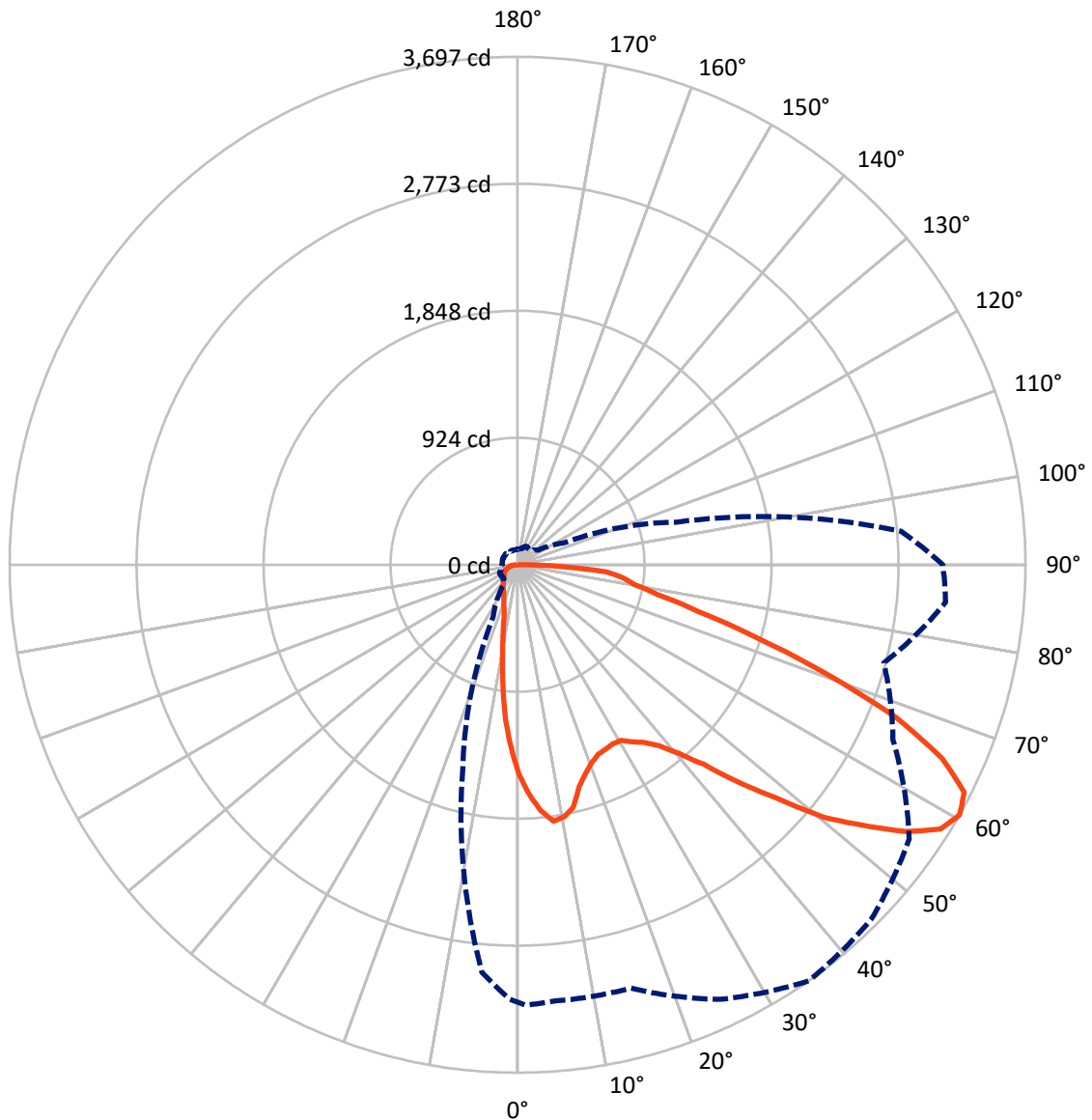
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.0	0.0	912.0
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3880.2	0.0	3880.2
	% Fixture	81.0	0.0	81.0
Total	Lumens	4792.2	0.0	4792.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	2.5
10°-20°	251.1	5.2
20°-30°	367.3	7.7
30°-40°	517.5	10.8
40°-50°	711.2	14.8
50°-60°	969.3	20.2
60°-70°	1060.9	22.1
70°-80°	612.5	12.8
80°-90°	183.4	3.8
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°	4792.2	100.0
0°-180°	4792.2	100.0

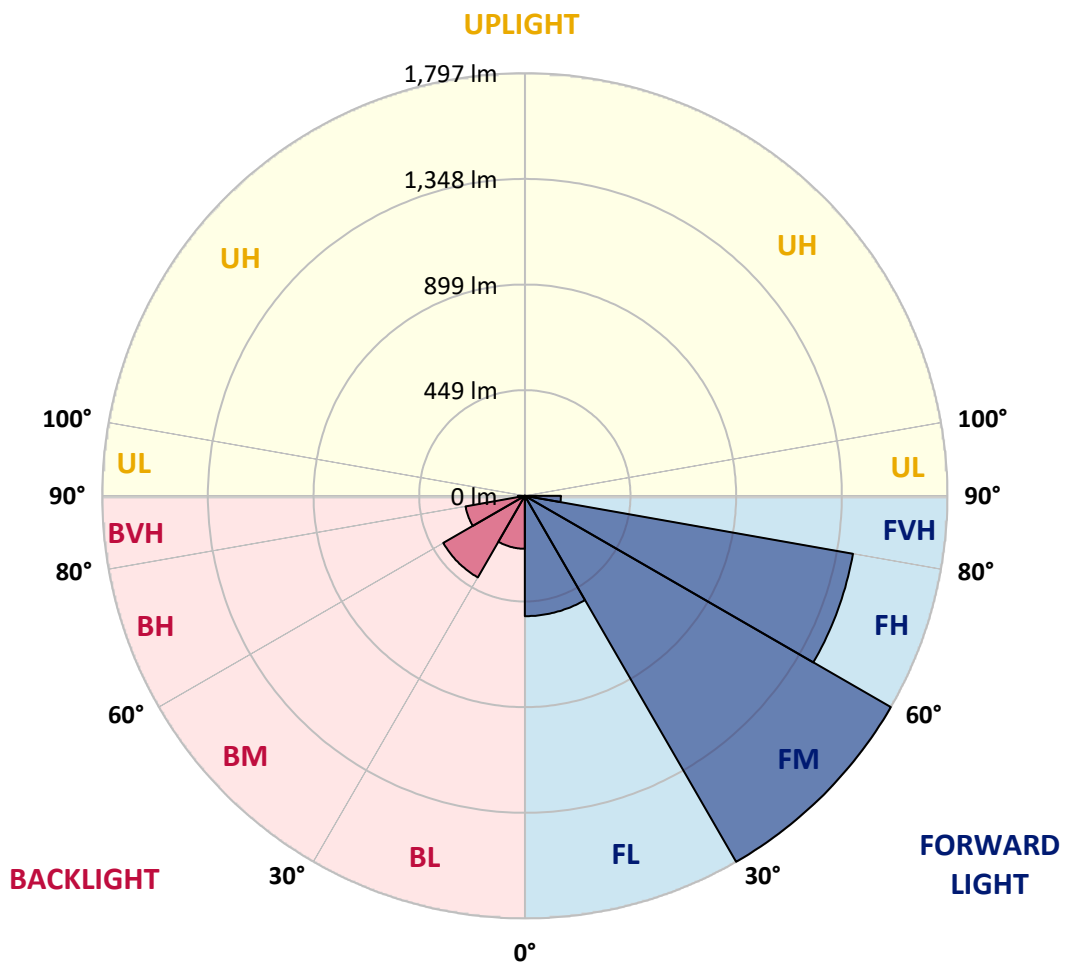


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.0	10.7			
FM (30°-60°)	1797.5	37.5			
FH (60°-80°)	1417.2	29.6			G1/1800
FVH (80°-90°)	153.5	3.2			G2/225
BL (0°-30°)	225.3	4.7	B1/500		
BM (30°-60°)	400.6	8.4	B1/1000		
BH (60°-80°)	256.2	5.3	B1/500		G1/500
BVH (80°-90°)	29.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6
2.5°	1639.0	1632.6	1639.0	1662.4	1668.8	1679.4	1679.4	1664.5	1636.9	1624.1	1602.9
5°	1675.2	1664.5	1717.7	1766.6	1804.8	1800.6	1764.4	1734.7	1679.4	1596.5	1517.9
7.5°	1602.9	1613.5	1651.8	1779.3	1868.6	1885.6	1828.2	1768.7	1649.7	1534.9	1428.6
10°	1466.8	1481.7	1564.6	1696.4	1836.7	1864.4	1828.2	1755.9	1613.5	1471.1	1347.8
12.5°	1400.9	1434.9	1483.8	1643.3	1743.2	1809.1	1792.1	1745.3	1585.9	1417.9	1298.9
15°	1400.9	1409.4	1481.7	1615.6	1673.0	1675.2	1681.5	1690.0	1594.4	1441.3	1281.9
17.5°	1445.6	1469.0	1530.6	1613.5	1624.1	1598.6	1598.6	1634.8	1611.4	1507.2	1343.5
20°	1554.0	1545.5	1626.3	1660.3	1602.9	1539.1	1532.7	1594.4	1630.5	1577.4	1456.2
22.5°	1662.4	1700.7	1766.6	1690.0	1583.8	1498.7	1490.2	1566.7	1687.9	1698.5	1585.9
25°	1826.1	1864.4	1898.4	1804.8	1581.6	1488.1	1494.5	1554.0	1758.1	1870.7	1802.7
27.5°	2002.5	2025.9	2074.8	1930.3	1632.6	1475.3	1481.7	1571.0	1824.0	1983.4	1972.8
30°	2102.5	2128.0	2117.3	1953.6	1666.7	1483.8	1466.8	1594.4	1787.8	1983.4	2083.3
32.5°	2200.2	2185.4	2179.0	1991.9	1709.2	1537.0	1494.5	1643.3	1809.1	2015.3	2225.8
35°	2319.3	2298.0	2281.0	2066.3	1779.3	1588.0	1568.9	1707.1	1855.9	2081.2	2340.6
37.5°	2451.1	2451.1	2368.2	2121.6	1862.2	1670.9	1649.7	1798.5	1930.3	2121.6	2497.9
40°	2606.3	2612.7	2466.0	2196.0	1955.8	1802.7	1796.3	1917.5	2002.5	2181.1	2648.8
42.5°	2721.1	2725.3	2551.0	2223.6	2064.2	1985.5	2013.2	2108.8	2085.5	2234.3	2659.4
45°	2799.7	2778.5	2610.5	2302.3	2183.2	2259.8	2268.3	2295.9	2193.9	2266.1	2701.9
47.5°	2838.0	2833.7	2636.0	2393.7	2434.1	2538.3	2587.2	2548.9	2293.8	2232.1	2701.9
50°	2876.3	2840.1	2659.4	2519.1	2678.6	2889.0	2878.4	2808.2	2432.0	2274.7	2661.6
52.5°	2901.8	2869.9	2706.2	2631.8	2912.4	3150.5	3193.0	3063.3	2593.5	2353.3	2680.7
55°	2993.2	2967.7	2846.5	2784.9	3182.4	3426.9	3433.2	3252.5	2763.6	2483.0	2806.1
57.5°	3103.7	3118.6	3040.0	3001.7	3388.6	3628.8	3605.4	3392.8	2908.2	2640.3	2950.7
60°	3182.4	3205.8	3186.6	3190.9	3490.6	3696.8	3643.7	3480.0	3014.4	2759.3	3127.1
62.5°	3139.9	3186.6	3265.3	3248.3	3494.9	3647.9	3573.5	3365.2	3027.2	2914.5	3261.0
65°	3022.9	3027.2	3180.3	3273.8	3303.6	3395.0	3297.2	3125.0	2895.4	3010.2	3241.9
67.5°	2723.2	2757.2	2895.4	3078.2	2952.8	2974.1	2965.6	2716.8	2695.6	2944.3	3095.2
70°	2404.3	2427.7	2578.6	2793.4	2493.6	2393.7	2412.8	2227.9	2315.0	2740.2	2799.7
72.5°	1987.7	2002.5	2174.7	2363.9	2000.4	1821.8	1866.5	1715.6	1838.9	2398.0	2361.8
75°	1500.8	1528.5	1662.4	1885.6	1473.2	1358.4	1403.1	1341.4	1456.2	1974.9	1832.5
77.5°	1067.2	1045.9	1211.7	1475.3	1107.6	1039.5	1043.8	1054.4	1177.7	1664.5	1315.9
80°	727.0	733.4	882.2	1082.1	869.5	858.8	848.2	933.2	988.5	1318.0	956.6
82.5°	431.5	431.5	595.2	769.6	686.6	773.8	724.9	801.4	773.8	969.4	627.1
85°	202.0	202.0	306.1	554.8	531.5	637.8	542.1	605.9	571.9	676.0	282.7
87.5°	34.0	29.8	61.6	272.1	219.0	248.7	97.8	323.1	359.3	471.9	70.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6
2.5°	1579.5	1564.6	1534.9	1496.6	1464.7	1424.3	1411.6	1383.9	1345.7	1341.4	1324.4
5°	1488.1	1437.1	1373.3	1294.6	1241.5	1186.2	1139.5	1111.8	1079.9	1075.7	1067.2
7.5°	1388.2	1324.4	1218.1	1124.6	1033.2	946.0	903.5	850.3	814.2	786.6	773.8
10°	1294.6	1235.1	1103.3	975.8	895.0	837.6	786.6	731.3	686.6	652.6	639.9
12.5°	1233.0	1162.8	1020.4	899.2	839.7	773.8	716.4	656.9	599.5	554.8	531.5
15°	1205.4	1139.5	994.9	861.0	773.8	682.4	616.5	557.0	486.8	454.9	444.3
17.5°	1271.3	1173.5	986.4	816.3	693.0	588.9	508.1	444.3	393.3	361.4	348.6
20°	1356.3	1235.1	1001.3	763.2	616.5	499.6	410.3	342.3	308.2	284.9	282.7
22.5°	1464.7	1326.5	1024.7	724.9	531.5	401.8	321.0	280.6	257.2	255.1	250.8
25°	1658.2	1492.3	1062.9	673.9	463.4	331.6	274.2	250.8	240.2	233.8	238.1
27.5°	1824.0	1600.8	1090.6	642.0	435.8	312.5	265.7	240.2	229.6	227.5	229.6
30°	1921.8	1700.7	1082.1	582.5	380.5	297.6	282.7	274.2	253.0	236.0	236.0
32.5°	2011.0	1764.4	1079.9	529.3	325.3	248.7	236.0	229.6	242.3	250.8	244.5
35°	2134.3	1864.4	1073.6	499.6	301.9	229.6	208.3	191.3	182.8	178.6	184.9
37.5°	2266.1	1932.4	1056.5	495.3	289.1	219.0	202.0	184.9	176.4	172.2	170.1
40°	2410.7	2004.7	1037.4	474.1	282.7	212.6	195.6	180.7	170.1	163.7	161.6
42.5°	2504.2	2062.1	1018.3	463.4	270.0	208.3	189.2	176.4	165.8	157.3	157.3
45°	2557.4	2130.1	999.1	452.8	255.1	210.5	189.2	172.2	159.4	155.2	150.9
47.5°	2580.8	2181.1	992.8	435.8	242.3	202.0	184.9	167.9	155.2	146.7	144.6
50°	2642.4	2289.5	1016.2	423.0	227.5	193.5	195.6	165.8	153.1	142.4	140.3
52.5°	2678.6	2376.7	1067.2	403.9	216.8	182.8	191.3	161.6	146.7	136.1	136.1
55°	2810.4	2521.2	1122.4	389.0	204.1	167.9	176.4	153.1	136.1	129.7	129.7
57.5°	2978.3	2674.3	1169.2	382.7	195.6	157.3	157.3	148.8	129.7	121.2	119.0
60°	3095.2	2799.7	1196.8	378.4	187.1	146.7	140.3	148.8	123.3	114.8	112.7
62.5°	3108.0	2727.5	1169.2	376.3	184.9	136.1	127.6	142.4	116.9	108.4	104.2
65°	3027.2	2580.8	1092.7	367.8	182.8	125.4	119.0	123.3	108.4	102.0	97.8
67.5°	2865.6	2342.7	982.1	363.5	180.7	116.9	108.4	106.3	99.9	93.5	89.3
70°	2489.4	2032.3	852.5	344.4	176.4	110.5	97.8	95.7	89.3	85.0	82.9
72.5°	2089.7	1662.4	703.7	318.9	167.9	99.9	89.3	85.0	82.9	76.5	74.4
75°	1600.8	1279.8	563.3	282.7	146.7	89.3	78.7	74.4	72.3	68.0	65.9
77.5°	1124.6	952.4	416.7	229.6	123.3	80.8	70.2	65.9	63.8	57.4	57.4
80°	763.2	667.5	282.7	159.4	95.7	65.9	61.6	57.4	53.1	48.9	48.9
82.5°	474.1	467.7	204.1	104.2	70.2	53.1	48.9	48.9	42.5	38.3	38.3
85°	216.8	287.0	142.4	72.3	53.1	40.4	40.4	38.3	34.0	27.6	27.6
87.5°	68.0	95.7	74.4	31.9	29.8	23.4	23.4	21.3	21.3	17.0	17.0
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°	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6
2.5°	1341.4	1339.3	1339.3	1330.8	1352.0	1352.0	1364.8	1354.2	1360.5	1362.7	1379.7
5°	1065.0	1082.1	1094.8	1120.3	1135.2	1141.6	1141.6	1158.6	1152.2	1165.0	1190.5
7.5°	780.2	801.4	839.7	871.6	897.1	905.6	903.5	907.7	914.1	899.2	903.5
10°	631.4	616.5	629.2	659.0	682.4	710.0	688.8	686.6	693.0	686.6	699.4
12.5°	527.2	510.2	499.6	499.6	516.6	529.3	523.0	533.6	557.0	563.3	578.2
15°	427.3	412.4	403.9	393.3	410.3	414.5	420.9	435.8	452.8	461.3	478.3
17.5°	342.3	342.3	342.3	333.8	340.1	346.5	348.6	367.8	369.9	378.4	384.8
20°	280.6	287.0	297.6	301.9	308.2	308.2	304.0	314.6	306.1	312.5	316.8
22.5°	253.0	261.5	265.7	267.9	276.4	278.5	267.9	270.0	272.1	265.7	267.9
25°	238.1	242.3	238.1	240.2	242.3	238.1	240.2	244.5	242.3	246.6	244.5
27.5°	231.7	227.5	225.3	223.2	223.2	219.0	221.1	221.1	225.3	227.5	227.5
30°	231.7	225.3	216.8	210.5	210.5	204.1	208.3	212.6	214.7	219.0	219.0
32.5°	238.1	225.3	210.5	204.1	197.7	193.5	197.7	204.1	212.6	214.7	216.8
35°	189.2	195.6	193.5	184.9	182.8	182.8	180.7	180.7	174.3	174.3	172.2
37.5°	170.1	167.9	172.2	174.3	176.4	170.1	170.1	161.6	159.4	161.6	161.6
40°	159.4	159.4	159.4	165.8	167.9	163.7	157.3	153.1	153.1	153.1	155.2
42.5°	155.2	150.9	148.8	153.1	159.4	155.2	148.8	146.7	146.7	148.8	148.8
45°	148.8	146.7	144.6	142.4	150.9	144.6	142.4	140.3	140.3	140.3	142.4
47.5°	142.4	140.3	136.1	136.1	138.2	136.1	133.9	133.9	133.9	138.2	138.2
50°	138.2	136.1	131.8	131.8	131.8	131.8	129.7	129.7	129.7	131.8	133.9
52.5°	131.8	129.7	127.6	125.4	125.4	125.4	125.4	125.4	125.4	127.6	129.7
55°	125.4	123.3	121.2	121.2	123.3	123.3	121.2	123.3	121.2	123.3	125.4
57.5°	119.0	116.9	114.8	116.9	119.0	116.9	116.9	116.9	116.9	116.9	119.0
60°	110.5	110.5	110.5	110.5	114.8	114.8	114.8	114.8	110.5	112.7	114.8
62.5°	106.3	104.2	104.2	106.3	108.4	108.4	110.5	108.4	106.3	108.4	108.4
65°	97.8	97.8	97.8	99.9	99.9	102.0	102.0	102.0	99.9	102.0	102.0
67.5°	91.4	91.4	91.4	91.4	95.7	95.7	95.7	95.7	93.5	93.5	95.7
70°	80.8	82.9	80.8	85.0	89.3	87.2	89.3	89.3	87.2	85.0	89.3
72.5°	74.4	74.4	74.4	74.4	80.8	80.8	80.8	82.9	80.8	78.7	80.8
75°	65.9	65.9	65.9	68.0	72.3	72.3	72.3	72.3	72.3	70.2	70.2
77.5°	57.4	59.5	57.4	59.5	63.8	61.6	63.8	65.9	63.8	61.6	61.6
80°	48.9	48.9	48.9	51.0	53.1	53.1	53.1	55.3	53.1	51.0	51.0
82.5°	38.3	38.3	40.4	40.4	42.5	42.5	42.5	44.6	42.5	40.4	40.4
85°	29.8	29.8	29.8	31.9	31.9	34.0	34.0	36.1	36.1	34.0	34.0
87.5°	19.1	17.0	19.1	19.1	21.3	21.3	19.1	17.0	19.1	17.0	14.9
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°	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6	1530.6
2.5°	1396.7	1434.9	1462.6	1481.7	1509.3	1562.5	1583.8	1622.0	1632.6	1639.0
5°	1201.1	1241.5	1301.0	1343.5	1392.4	1492.3	1568.9	1626.3	1651.8	1675.2
7.5°	941.7	994.9	1056.5	1111.8	1192.6	1315.9	1415.8	1534.9	1579.5	1602.9
10°	735.5	784.4	852.5	920.5	1033.2	1137.3	1279.8	1388.2	1449.8	1466.8
12.5°	620.7	678.1	758.9	841.8	912.0	1031.0	1175.6	1332.9	1390.3	1400.9
15°	527.2	605.9	688.8	773.8	854.6	958.8	1113.9	1305.3	1390.3	1400.9
17.5°	435.8	506.0	603.7	695.2	788.7	931.1	1124.6	1328.7	1413.7	1445.6
20°	346.5	414.5	491.1	605.9	733.4	884.4	1148.0	1407.3	1520.0	1554.0
22.5°	287.0	316.8	391.2	501.7	652.6	852.5	1171.3	1530.6	1649.7	1662.4
25°	250.8	272.1	318.9	423.0	588.9	831.2	1226.6	1673.0	1826.1	1826.1
27.5°	233.8	242.3	274.2	367.8	544.2	812.1	1281.9	1830.4	1972.8	2002.5
30°	229.6	250.8	267.9	327.4	495.3	758.9	1332.9	1953.6	2100.3	2102.5
32.5°	225.3	221.1	233.8	284.9	435.8	703.7	1375.4	2079.1	2193.9	2200.2
35°	176.4	184.9	206.2	250.8	391.2	663.3	1396.7	2147.1	2312.9	2319.3
37.5°	165.8	176.4	193.5	231.7	361.4	629.2	1403.1	2278.9	2438.3	2451.1
40°	161.6	170.1	182.8	214.7	338.0	586.7	1415.8	2415.0	2623.3	2606.3
42.5°	153.1	163.7	176.4	206.2	318.9	554.8	1417.9	2489.4	2721.1	2721.1
45°	150.9	157.3	172.2	206.2	297.6	527.2	1383.9	2563.8	2833.7	2799.7
47.5°	142.4	155.2	167.9	199.8	272.1	499.6	1343.5	2602.0	2848.6	2838.0
50°	140.3	153.1	174.3	189.2	257.2	486.8	1335.0	2697.7	2878.4	2876.3
52.5°	136.1	148.8	180.7	180.7	238.1	469.8	1375.4	2740.2	2884.8	2901.8
55°	129.7	148.8	167.9	165.8	221.1	448.6	1420.1	2850.8	2997.4	2993.2
57.5°	125.4	144.6	159.4	150.9	202.0	433.7	1486.0	2957.0	3133.5	3103.7
60°	119.0	144.6	142.4	140.3	187.1	420.9	1541.2	2978.3	3163.3	3182.4
62.5°	114.8	150.9	125.4	129.7	174.3	414.5	1517.9	2818.9	3122.9	3139.9
65°	110.5	129.7	114.8	119.0	170.1	401.8	1426.4	2627.5	2948.5	3022.9
67.5°	102.0	106.3	106.3	110.5	165.8	372.0	1239.4	2283.2	2682.8	2723.2
70°	93.5	95.7	95.7	102.0	161.6	338.0	1022.5	1974.9	2327.8	2404.3
72.5°	85.0	85.0	85.0	93.5	148.8	310.4	841.8	1517.9	1934.5	1987.7
75°	74.4	74.4	74.4	82.9	133.9	282.7	663.3	1128.8	1424.3	1500.8
77.5°	65.9	65.9	63.8	74.4	116.9	229.6	478.3	797.2	1003.4	1067.2
80°	55.3	53.1	53.1	59.5	91.4	165.8	308.2	563.3	699.4	727.0
82.5°	44.6	42.5	40.4	44.6	65.9	104.2	191.3	393.3	448.6	431.5
85°	42.5	44.6	36.1	34.0	46.8	68.0	121.2	242.3	202.0	202.0
87.5°	17.0	14.9	14.9	12.8	23.4	25.5	53.1	44.6	34.0	34.0
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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