

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: P675813

Luminaire Tested: **CCW-SA-1E-727-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675813
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4744.2 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

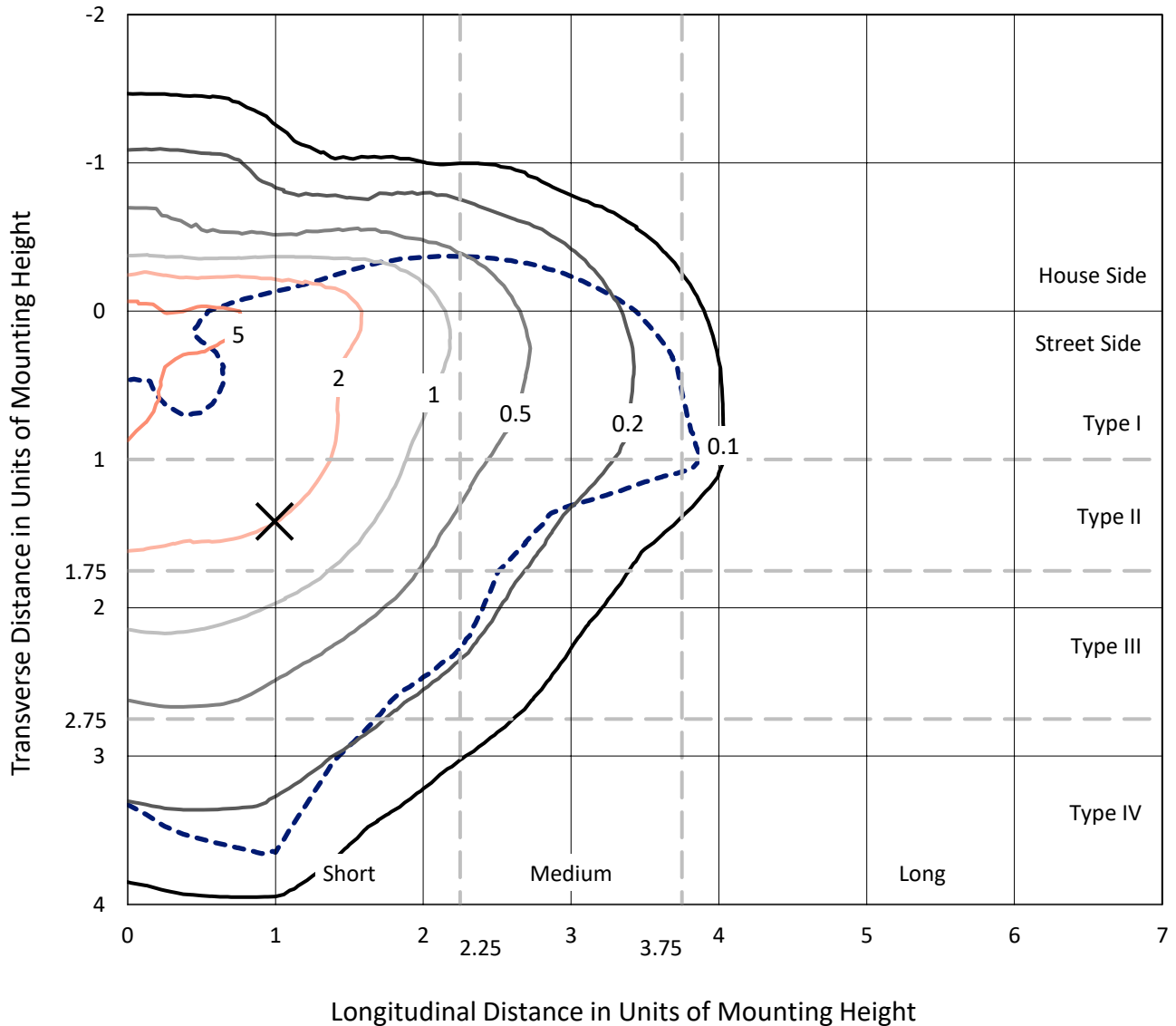
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

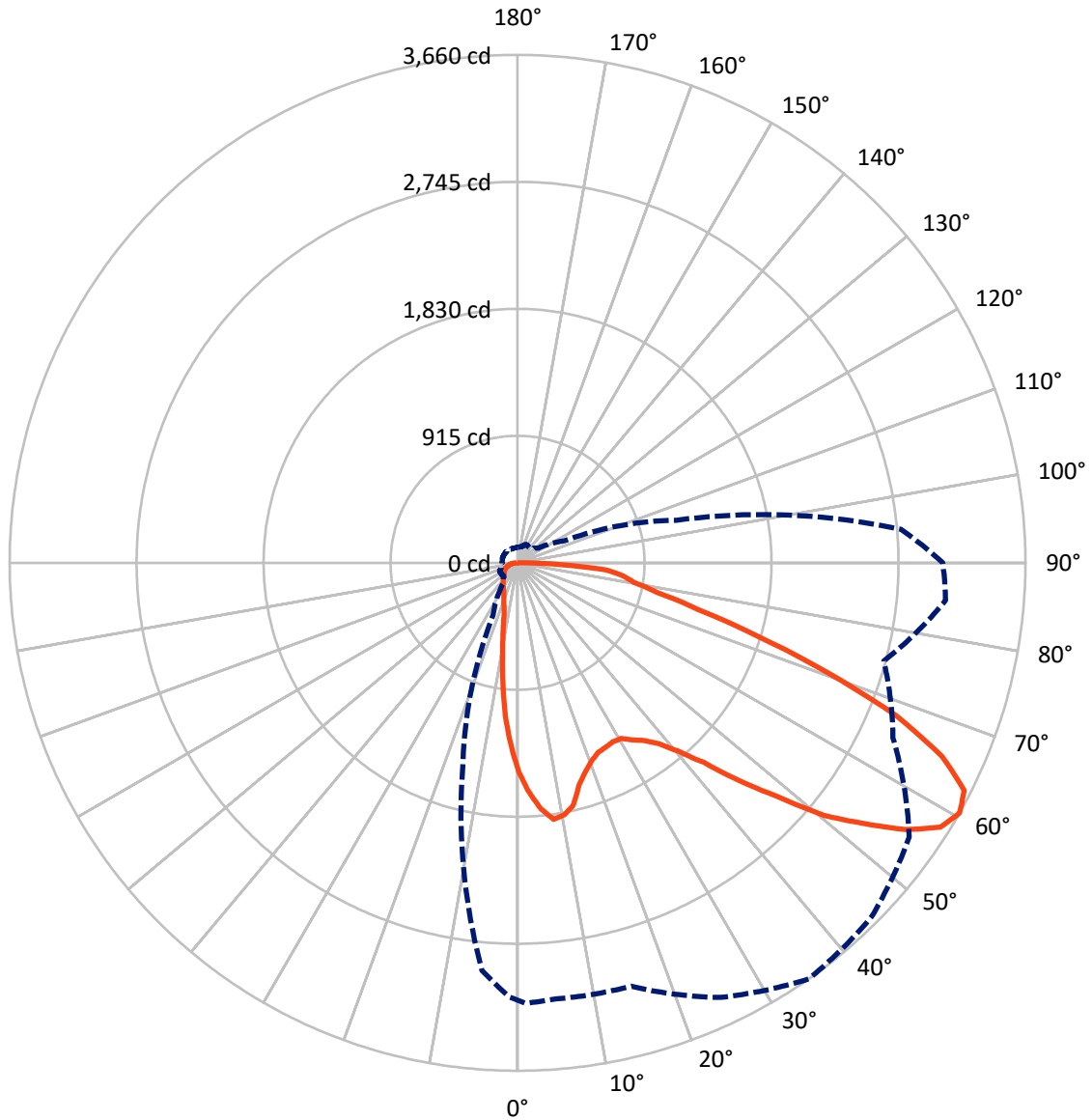
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 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	902.9	0.0	902.9
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3841.3	0.0	3841.3
	% Fixture	81.0	0.0	81.0
Total	Lumens	4744.2	0.0	4744.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	2.5
10°-20°	248.5	5.2
20°-30°	363.6	7.7
30°-40°	512.3	10.8
40°-50°	704.1	14.8
50°-60°	959.6	20.2
60°-70°	1050.3	22.1
70°-80°	606.4	12.8
80°-90°	181.6	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°	4744.2	100.0
0°-180°	4744.2	100.0

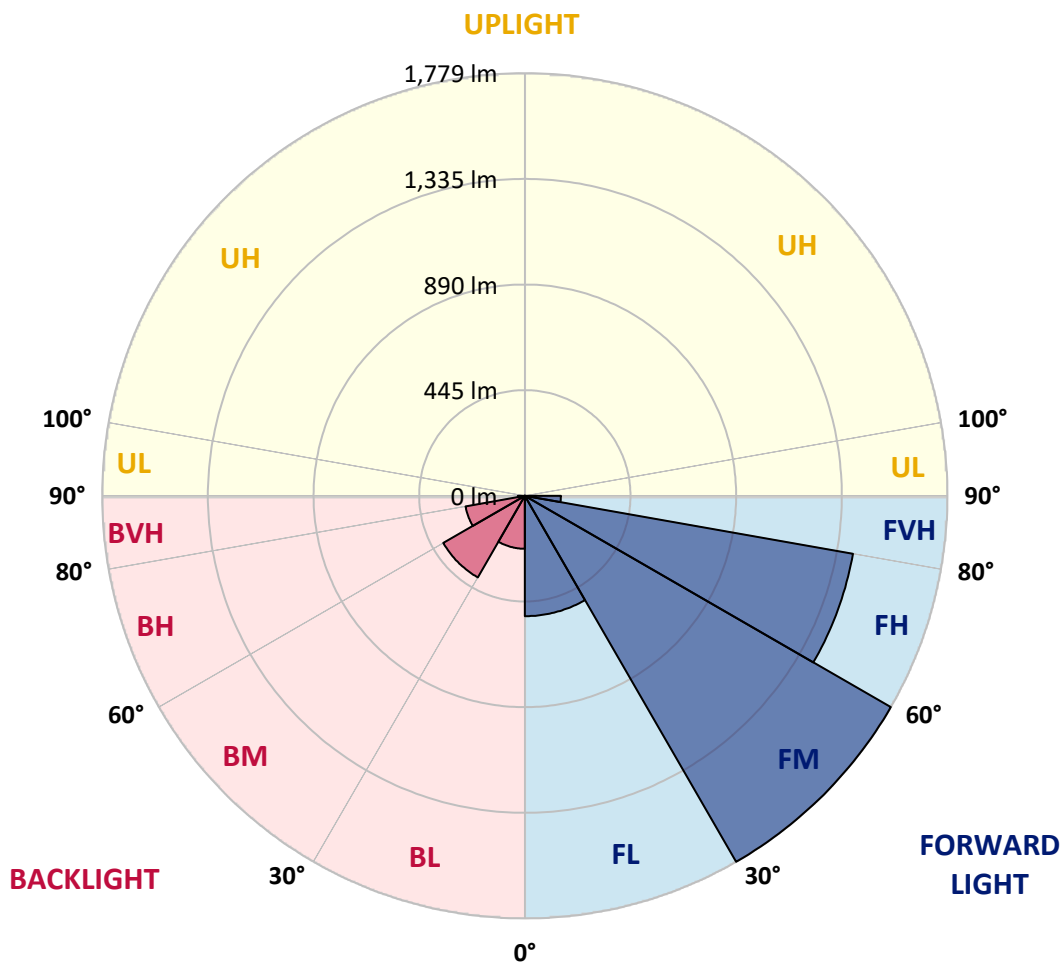


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.8	10.7			
FM (30°-60°)	1779.5	37.5			
FH (60°-80°)	1403.0	29.6			G1/1800
FVH (80°-90°)	152.0	3.2			G2/225
BL (0°-30°)	223.1	4.7	B1/500		
BM (30°-60°)	396.6	8.4	B1/1000		
BH (60°-80°)	253.6	5.3	B1/500		G1/500
BVH (80°-90°)	29.6	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°	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3
2.5°	1622.6	1616.3	1622.6	1645.8	1652.1	1662.6	1662.6	1647.9	1620.5	1607.9	1586.8
5°	1658.4	1647.9	1700.5	1748.9	1786.8	1782.6	1746.8	1717.3	1662.6	1580.5	1502.6
7.5°	1586.8	1597.4	1635.2	1761.5	1849.9	1866.7	1809.9	1751.0	1633.1	1519.5	1414.3
10°	1452.1	1466.9	1548.9	1679.4	1818.3	1845.7	1809.9	1738.4	1597.4	1456.3	1334.3
12.5°	1386.9	1420.6	1469.0	1626.8	1725.7	1791.0	1774.1	1727.8	1570.0	1403.7	1285.9
15°	1386.9	1395.3	1466.9	1599.5	1656.3	1658.4	1664.7	1673.1	1578.4	1426.9	1269.0
17.5°	1431.1	1454.2	1515.3	1597.4	1607.9	1582.6	1582.6	1618.4	1595.2	1492.1	1330.1
20°	1538.4	1530.0	1610.0	1643.7	1586.8	1523.7	1517.4	1578.4	1614.2	1561.6	1441.6
22.5°	1645.8	1683.6	1748.9	1673.1	1567.9	1483.7	1475.3	1551.1	1671.0	1681.5	1570.0
25°	1807.8	1845.7	1879.4	1786.8	1565.8	1473.2	1479.5	1538.4	1740.5	1852.0	1784.7
27.5°	1982.5	2005.6	2054.0	1910.9	1616.3	1460.6	1466.9	1555.3	1805.7	1963.5	1953.0
30°	2081.4	2106.7	2096.1	1934.1	1650.0	1469.0	1452.1	1578.4	1769.9	1963.5	2062.5
32.5°	2178.2	2163.5	2157.2	1972.0	1692.1	1521.6	1479.5	1626.8	1791.0	1995.1	2203.5
35°	2296.1	2275.0	2258.2	2045.6	1761.5	1572.1	1553.2	1690.0	1837.3	2060.4	2317.1
37.5°	2426.5	2426.5	2344.5	2100.3	1843.6	1654.2	1633.1	1780.4	1910.9	2100.3	2472.8
40°	2580.2	2586.5	2441.3	2174.0	1936.2	1784.7	1778.3	1898.3	1982.5	2159.3	2622.3
42.5°	2693.8	2698.0	2525.5	2201.4	2043.5	1965.6	1993.0	2087.7	2064.6	2211.9	2632.8
45°	2771.7	2750.6	2584.4	2279.2	2161.4	2237.1	2245.6	2272.9	2171.9	2243.5	2674.9
47.5°	2809.6	2805.4	2609.6	2369.7	2409.7	2512.8	2561.2	2523.4	2270.8	2209.8	2674.9
50°	2847.5	2811.7	2632.8	2493.9	2651.7	2860.1	2849.6	2780.1	2407.6	2251.9	2634.9
52.5°	2872.7	2841.1	2679.1	2605.4	2883.2	3118.9	3161.0	3032.7	2567.6	2329.7	2653.8
55°	2963.2	2938.0	2818.0	2757.0	3150.5	3392.5	3398.8	3220.0	2735.9	2458.1	2778.0
57.5°	3072.6	3087.4	3009.5	2971.6	3354.7	3592.5	3569.3	3358.9	2879.0	2613.9	2921.1
60°	3150.5	3173.7	3154.7	3158.9	3455.7	3659.8	3607.2	3445.1	2984.3	2731.7	3095.8
62.5°	3108.4	3154.7	3232.6	3215.8	3459.9	3611.4	3537.7	3331.5	2996.9	2885.3	3228.4
65°	2992.7	2996.9	3148.4	3241.0	3270.5	3361.0	3264.2	3093.7	2866.4	2980.0	3209.4
67.5°	2695.9	2729.6	2866.4	3047.4	2923.2	2944.3	2935.8	2689.6	2668.6	2914.8	3064.2
70°	2380.2	2403.4	2552.8	2765.4	2468.6	2369.7	2388.7	2205.6	2291.9	2712.8	2771.7
72.5°	1967.8	1982.5	2153.0	2340.3	1980.4	1803.6	1847.8	1698.4	1820.4	2373.9	2338.2
75°	1485.8	1513.2	1645.8	1866.7	1458.5	1344.8	1389.0	1328.0	1441.6	1955.1	1814.1
77.5°	1056.5	1035.4	1199.6	1460.6	1096.5	1029.1	1033.3	1043.9	1165.9	1647.9	1302.7
80°	719.8	726.1	873.4	1071.2	860.8	850.2	839.7	923.9	978.6	1304.8	947.0
82.5°	427.2	427.2	589.3	761.8	679.8	766.1	717.7	793.4	766.1	959.7	620.8
85°	199.9	199.9	303.1	549.3	526.1	631.4	536.7	599.8	566.1	669.2	279.9
87.5°	33.7	29.5	61.0	269.4	216.8	246.2	96.8	319.9	355.7	467.2	69.5
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°	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3
2.5°	1563.7	1548.9	1519.5	1481.6	1450.0	1410.0	1397.4	1370.1	1332.2	1328.0	1311.1
5°	1473.2	1422.7	1359.5	1281.7	1229.1	1174.3	1128.0	1100.7	1069.1	1064.9	1056.5
7.5°	1374.3	1311.1	1205.9	1113.3	1022.8	936.5	894.4	841.8	806.0	778.7	766.1
10°	1281.7	1222.7	1092.3	966.0	886.0	829.2	778.7	724.0	679.8	646.1	633.5
12.5°	1220.6	1151.2	1010.2	890.2	831.3	766.1	709.2	650.3	593.5	549.3	526.1
15°	1193.3	1128.0	984.9	852.3	766.1	675.6	610.3	551.4	481.9	450.4	439.9
17.5°	1258.5	1161.7	976.5	808.1	686.1	583.0	503.0	439.9	389.3	357.8	345.1
20°	1342.7	1222.7	991.2	755.5	610.3	494.6	406.2	338.8	305.2	282.0	279.9
22.5°	1450.0	1313.2	1014.4	717.7	526.1	397.8	317.8	277.8	254.7	252.5	248.3
25°	1641.5	1477.4	1052.3	667.1	458.8	328.3	271.5	248.3	237.8	231.5	235.7
27.5°	1805.7	1584.7	1079.6	635.6	431.4	309.4	263.1	237.8	227.3	225.2	227.3
30°	1902.5	1683.6	1071.2	576.6	376.7	294.6	279.9	271.5	250.4	233.6	233.6
32.5°	1990.9	1746.8	1069.1	524.0	322.0	246.2	233.6	227.3	239.9	248.3	242.0
35°	2113.0	1845.7	1062.8	494.6	298.8	227.3	206.2	189.4	181.0	176.8	183.1
37.5°	2243.5	1913.0	1046.0	490.4	286.2	216.8	199.9	183.1	174.7	170.5	168.4
40°	2386.6	1984.6	1027.0	469.3	279.9	210.5	193.6	178.9	168.4	162.1	159.9
42.5°	2479.2	2041.4	1008.1	458.8	267.3	206.2	187.3	174.7	164.2	155.7	155.7
45°	2531.8	2108.8	989.1	448.3	252.5	208.4	187.3	170.5	157.8	153.6	149.4
47.5°	2554.9	2159.3	982.8	431.4	239.9	199.9	183.1	166.3	153.6	145.2	143.1
50°	2616.0	2266.6	1006.0	418.8	225.2	191.5	193.6	164.2	151.5	141.0	138.9
52.5°	2651.7	2352.9	1056.5	399.9	214.7	181.0	189.4	159.9	145.2	134.7	134.7
55°	2782.2	2496.0	1111.2	385.1	202.0	166.3	174.7	151.5	134.7	128.4	128.4
57.5°	2948.5	2647.5	1157.5	378.8	193.6	155.7	155.7	147.3	128.4	120.0	117.9
60°	3064.2	2771.7	1184.9	374.6	185.2	145.2	138.9	147.3	122.1	113.6	111.5
62.5°	3076.9	2700.1	1157.5	372.5	183.1	134.7	126.3	141.0	115.8	107.3	103.1
65°	2996.9	2554.9	1081.7	364.1	181.0	124.2	117.9	122.1	107.3	101.0	96.8
67.5°	2836.9	2319.2	972.3	359.9	178.9	115.8	107.3	105.2	98.9	92.6	88.4
70°	2464.4	2011.9	843.9	340.9	174.7	109.4	96.8	94.7	88.4	84.2	82.1
72.5°	2068.8	1645.8	696.6	315.7	166.3	98.9	88.4	84.2	82.1	75.8	73.7
75°	1584.7	1266.9	557.7	279.9	145.2	88.4	77.9	73.7	71.6	67.3	65.2
77.5°	1113.3	942.8	412.5	227.3	122.1	80.0	69.5	65.2	63.1	56.8	56.8
80°	755.5	660.8	279.9	157.8	94.7	65.2	61.0	56.8	52.6	48.4	48.4
82.5°	469.3	463.0	202.0	103.1	69.5	52.6	48.4	48.4	42.1	37.9	37.9
85°	214.7	284.1	141.0	71.6	52.6	40.0	40.0	37.9	33.7	27.4	27.4
87.5°	67.3	94.7	73.7	31.6	29.5	23.2	23.2	21.0	21.0	16.8	16.8
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°	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3
2.5°	1328.0	1325.9	1325.9	1317.4	1338.5	1338.5	1351.1	1340.6	1346.9	1349.0	1365.9
5°	1054.4	1071.2	1083.8	1109.1	1123.8	1130.1	1130.1	1147.0	1140.7	1153.3	1178.5
7.5°	772.4	793.4	831.3	862.9	888.1	896.5	894.4	898.6	905.0	890.2	894.4
10°	625.1	610.3	622.9	652.4	675.6	702.9	681.9	679.8	686.1	679.8	692.4
12.5°	521.9	505.1	494.6	494.6	511.4	524.0	517.7	528.2	551.4	557.7	572.4
15°	423.0	408.3	399.9	389.3	406.2	410.4	416.7	431.4	448.3	456.7	473.5
17.5°	338.8	338.8	338.8	330.4	336.7	343.0	345.1	364.1	366.2	374.6	380.9
20°	277.8	284.1	294.6	298.8	305.2	305.2	301.0	311.5	303.1	309.4	313.6
22.5°	250.4	258.9	263.1	265.2	273.6	275.7	265.2	267.3	269.4	263.1	265.2
25°	235.7	239.9	235.7	237.8	239.9	235.7	237.8	242.0	239.9	244.1	242.0
27.5°	229.4	225.2	223.1	221.0	221.0	216.8	218.9	218.9	223.1	225.2	225.2
30°	229.4	223.1	214.7	208.4	208.4	202.0	206.2	210.5	212.6	216.8	216.8
32.5°	235.7	223.1	208.4	202.0	195.7	191.5	195.7	202.0	210.5	212.6	214.7
35°	187.3	193.6	191.5	183.1	181.0	181.0	178.9	178.9	172.6	172.6	170.5
37.5°	168.4	166.3	170.5	172.6	174.7	168.4	168.4	159.9	157.8	159.9	159.9
40°	157.8	157.8	157.8	164.2	166.3	162.1	155.7	151.5	151.5	151.5	153.6
42.5°	153.6	149.4	147.3	151.5	157.8	153.6	147.3	145.2	145.2	147.3	147.3
45°	147.3	145.2	143.1	141.0	149.4	143.1	141.0	138.9	138.9	138.9	141.0
47.5°	141.0	138.9	134.7	134.7	136.8	134.7	132.6	132.6	132.6	136.8	136.8
50°	136.8	134.7	130.5	130.5	130.5	130.5	128.4	128.4	128.4	130.5	132.6
52.5°	130.5	128.4	126.3	124.2	124.2	124.2	124.2	124.2	124.2	126.3	128.4
55°	124.2	122.1	120.0	120.0	122.1	122.1	120.0	122.1	120.0	122.1	124.2
57.5°	117.9	115.8	113.6	115.8	117.9	115.8	115.8	115.8	115.8	115.8	117.9
60°	109.4	109.4	109.4	109.4	113.6	113.6	113.6	113.6	109.4	111.5	113.6
62.5°	105.2	103.1	103.1	105.2	107.3	107.3	109.4	107.3	105.2	107.3	107.3
65°	96.8	96.8	96.8	98.9	98.9	101.0	101.0	101.0	98.9	101.0	101.0
67.5°	90.5	90.5	90.5	90.5	94.7	94.7	94.7	94.7	92.6	92.6	94.7
70°	80.0	82.1	80.0	84.2	88.4	86.3	88.4	88.4	86.3	84.2	88.4
72.5°	73.7	73.7	73.7	73.7	80.0	80.0	80.0	82.1	80.0	77.9	80.0
75°	65.2	65.2	65.2	67.3	71.6	71.6	71.6	71.6	71.6	69.5	69.5
77.5°	56.8	58.9	56.8	58.9	63.1	61.0	63.1	65.2	63.1	61.0	61.0
80°	48.4	48.4	48.4	50.5	52.6	52.6	52.6	54.7	52.6	50.5	50.5
82.5°	37.9	37.9	40.0	40.0	42.1	42.1	42.1	44.2	42.1	40.0	40.0
85°	29.5	29.5	29.5	31.6	31.6	33.7	33.7	35.8	35.8	33.7	33.7
87.5°	18.9	16.8	18.9	18.9	21.0	21.0	18.9	16.8	18.9	16.8	14.7
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°	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3
2.5°	1382.7	1420.6	1447.9	1466.9	1494.2	1546.8	1567.9	1605.8	1616.3	1622.6
5°	1189.1	1229.1	1288.0	1330.1	1378.5	1477.4	1553.2	1610.0	1635.2	1658.4
7.5°	932.3	984.9	1046.0	1100.7	1180.7	1302.7	1401.6	1519.5	1563.7	1586.8
10°	728.2	776.6	843.9	911.3	1022.8	1125.9	1266.9	1374.3	1435.3	1452.1
12.5°	614.5	671.4	751.3	833.4	902.9	1020.7	1163.8	1319.6	1376.4	1386.9
15°	521.9	599.8	681.9	766.1	846.0	949.2	1102.8	1292.2	1376.4	1386.9
17.5°	431.4	500.9	597.7	688.2	780.8	921.8	1113.3	1315.3	1399.5	1431.1
20°	343.0	410.4	486.2	599.8	726.1	875.5	1136.5	1393.2	1504.8	1538.4
22.5°	284.1	313.6	387.2	496.7	646.1	843.9	1159.6	1515.3	1633.1	1645.8
25°	248.3	269.4	315.7	418.8	583.0	822.9	1214.3	1656.3	1807.8	1807.8
27.5°	231.5	239.9	271.5	364.1	538.8	803.9	1269.0	1812.0	1953.0	1982.5
30°	227.3	248.3	265.2	324.1	490.4	751.3	1319.6	1934.1	2079.3	2081.4
32.5°	223.1	218.9	231.5	282.0	431.4	696.6	1361.6	2058.2	2171.9	2178.2
35°	174.7	183.1	204.1	248.3	387.2	656.6	1382.7	2125.6	2289.8	2296.1
37.5°	164.2	174.7	191.5	229.4	357.8	622.9	1389.0	2256.1	2413.9	2426.5
40°	159.9	168.4	181.0	212.6	334.6	580.9	1401.6	2390.8	2597.0	2580.2
42.5°	151.5	162.1	174.7	204.1	315.7	549.3	1403.7	2464.4	2693.8	2693.8
45°	149.4	155.7	170.5	204.1	294.6	521.9	1370.1	2538.1	2805.4	2771.7
47.5°	141.0	153.6	166.3	197.8	269.4	494.6	1330.1	2576.0	2820.1	2809.6
50°	138.9	151.5	172.6	187.3	254.7	481.9	1321.7	2670.7	2849.6	2847.5
52.5°	134.7	147.3	178.9	178.9	235.7	465.1	1361.6	2712.8	2855.9	2872.7
55°	128.4	147.3	166.3	164.2	218.9	444.1	1405.8	2822.2	2967.4	2963.2
57.5°	124.2	143.1	157.8	149.4	199.9	429.3	1471.1	2927.4	3102.1	3072.6
60°	117.9	143.1	141.0	138.9	185.2	416.7	1525.8	2948.5	3131.6	3150.5
62.5°	113.6	149.4	124.2	128.4	172.6	410.4	1502.6	2790.6	3091.6	3108.4
65°	109.4	128.4	113.6	117.9	168.4	397.8	1412.2	2601.2	2919.0	2992.7
67.5°	101.0	105.2	105.2	109.4	164.2	368.3	1227.0	2260.3	2655.9	2695.9
70°	92.6	94.7	94.7	101.0	159.9	334.6	1012.3	1955.1	2304.5	2380.2
72.5°	84.2	84.2	84.2	92.6	147.3	307.3	833.4	1502.6	1915.1	1967.8
75°	73.7	73.7	73.7	82.1	132.6	279.9	656.6	1117.5	1410.0	1485.8
77.5°	65.2	65.2	63.1	73.7	115.8	227.3	473.5	789.2	993.3	1056.5
80°	54.7	52.6	52.6	58.9	90.5	164.2	305.2	557.7	692.4	719.8
82.5°	44.2	42.1	40.0	44.2	65.2	103.1	189.4	389.3	444.1	427.2
85°	42.1	44.2	35.8	33.7	46.3	67.3	120.0	239.9	199.9	199.9
87.5°	16.8	14.7	14.7	12.6	23.2	25.3	52.6	44.2	33.7	33.7
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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