

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: P675845

Luminaire Tested: **CCW-SA-1D-740-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675845
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-740-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

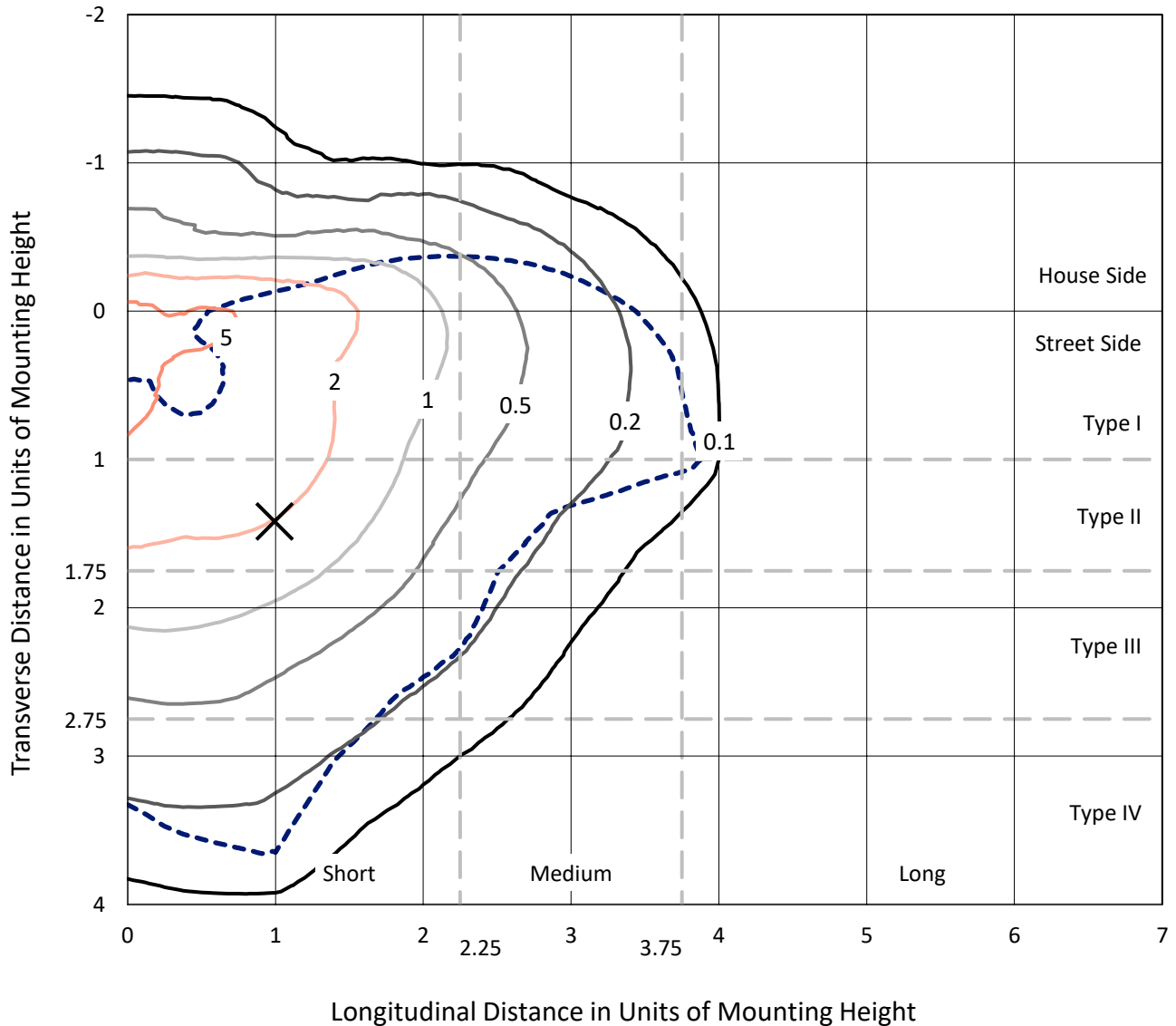
Lumens per Lamp: N/A
Luminaire Lumens: 4627.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

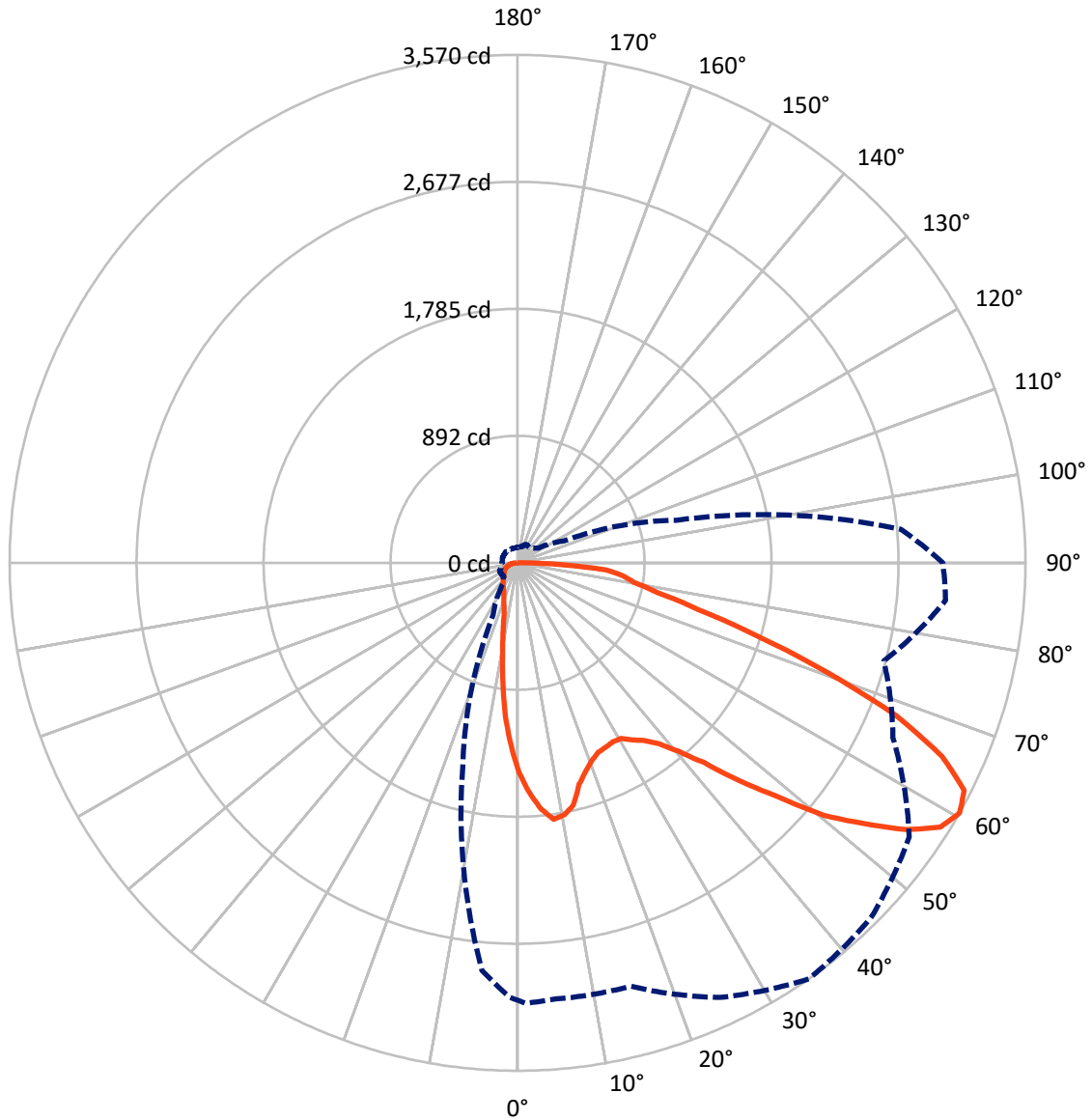
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 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	880.6	0.0	880.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3746.7	0.0	3746.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	4627.3	0.0	4627.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	2.5
10°-20°	242.4	5.2
20°-30°	354.7	7.7
30°-40°	499.7	10.8
40°-50°	686.8	14.8
50°-60°	936.0	20.2
60°-70°	1024.4	22.1
70°-80°	591.4	12.8
80°-90°	177.1	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°	4627.3	100.0
0°-180°	4627.3	100.0



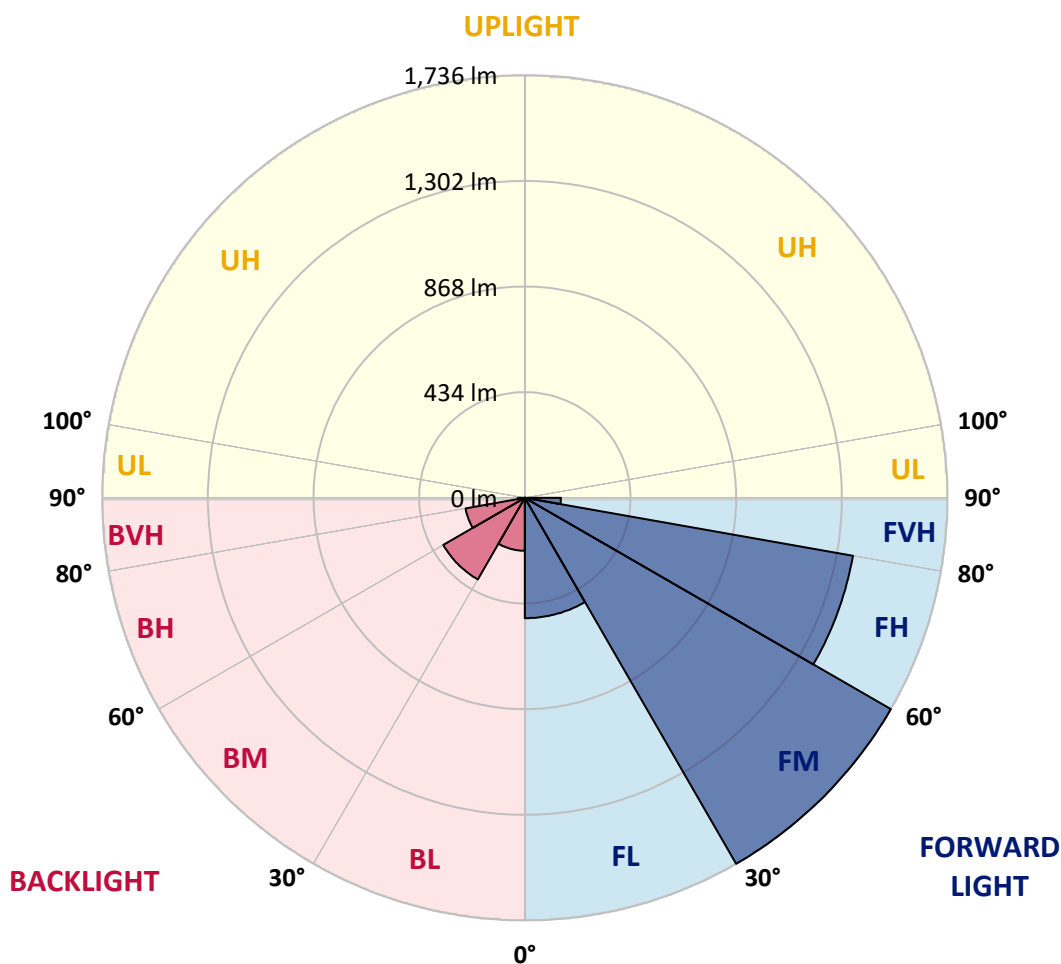
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.3	10.7			
FM (30°-60°)	1735.6	37.5			
FH (60°-80°)	1368.5	29.6			G1/1800
FVH (80°-90°)	148.2	3.2			G2/225
BL (0°-30°)	217.6	4.7	B1/500		
BM (30°-60°)	386.9	8.4	B1/1000		
BH (60°-80°)	247.3	5.3	B1/500		G1/500
BVH (80°-90°)	28.9	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°	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1582.6	1576.5	1582.6	1605.2	1611.4	1621.6	1621.6	1607.3	1580.6	1568.2	1547.7
5°	1617.5	1607.3	1658.6	1705.8	1742.7	1738.6	1703.7	1675.0	1621.6	1541.6	1465.6
7.5°	1547.7	1558.0	1594.9	1718.1	1804.3	1820.7	1765.3	1707.8	1592.9	1482.0	1379.4
10°	1416.4	1430.7	1510.8	1638.0	1773.5	1800.2	1765.3	1695.5	1558.0	1420.5	1301.4
12.5°	1352.7	1385.6	1432.8	1586.7	1683.2	1746.8	1730.4	1685.3	1531.3	1369.1	1254.2
15°	1352.7	1360.9	1430.7	1560.0	1615.5	1617.5	1623.7	1631.9	1539.5	1391.7	1237.8
17.5°	1395.8	1418.4	1477.9	1558.0	1568.2	1543.6	1543.6	1578.5	1555.9	1455.4	1297.3
20°	1500.5	1492.3	1570.3	1603.1	1547.7	1486.1	1480.0	1539.5	1574.4	1523.1	1406.1
22.5°	1605.2	1642.1	1705.8	1631.9	1529.2	1447.1	1438.9	1512.8	1629.8	1640.1	1531.3
25°	1763.3	1800.2	1833.0	1742.7	1527.2	1436.9	1443.0	1500.5	1697.6	1806.4	1740.7
27.5°	1933.6	1956.2	2003.4	1863.8	1576.5	1424.6	1430.7	1516.9	1761.2	1915.2	1904.9
30°	2030.1	2054.7	2044.5	1886.4	1609.3	1432.8	1416.4	1539.5	1726.3	1915.2	2011.6
32.5°	2124.5	2110.2	2104.0	1923.4	1650.4	1484.1	1443.0	1586.7	1746.8	1945.9	2149.2
35°	2239.5	2219.0	2202.5	1995.2	1718.1	1533.4	1514.9	1648.3	1792.0	2009.6	2260.0
37.5°	2366.7	2366.7	2286.7	2048.6	1798.2	1613.4	1592.9	1736.6	1863.8	2048.6	2411.9
40°	2516.6	2522.7	2381.1	2120.4	1888.5	1740.7	1734.5	1851.5	1933.6	2106.1	2557.6
42.5°	2627.4	2631.5	2463.2	2147.1	1993.2	1917.2	1943.9	2036.3	2013.7	2157.4	2567.9
45°	2703.4	2682.9	2520.7	2223.1	2108.1	2182.0	2190.2	2216.9	2118.4	2188.2	2609.0
47.5°	2740.3	2736.2	2545.3	2311.3	2350.3	2450.9	2498.1	2461.2	2214.8	2155.3	2609.0
50°	2777.3	2742.4	2567.9	2432.4	2586.4	2789.6	2779.3	2711.6	2348.3	2196.4	2570.0
52.5°	2801.9	2771.1	2613.1	2541.2	2812.2	3042.1	3083.1	2957.9	2504.3	2272.3	2588.4
55°	2890.2	2865.5	2748.5	2689.0	3072.9	3308.9	3315.1	3140.6	2668.5	2397.5	2709.5
57.5°	2996.9	3011.3	2935.3	2898.4	3272.0	3503.9	3481.4	3276.1	2808.1	2549.4	2849.1
60°	3072.9	3095.4	3077.0	3081.1	3370.5	3569.6	3518.3	3360.2	2910.7	2664.4	3019.5
62.5°	3031.8	3077.0	3152.9	3136.5	3374.6	3522.4	3450.6	3249.4	2923.0	2814.2	3148.8
65°	2918.9	2923.0	3070.8	3161.1	3189.9	3278.1	3183.7	3017.4	2795.8	2906.6	3130.3
67.5°	2629.5	2662.3	2795.8	2972.3	2851.2	2871.7	2863.5	2623.3	2602.8	2843.0	2988.7
70°	2321.6	2344.2	2489.9	2697.2	2407.8	2311.3	2329.8	2151.2	2235.4	2645.9	2703.4
72.5°	1919.3	1933.6	2099.9	2282.6	1931.6	1759.1	1802.3	1656.5	1775.6	2315.4	2280.5
75°	1449.2	1475.9	1605.2	1820.7	1422.5	1311.7	1354.8	1295.2	1406.1	1906.9	1769.4
77.5°	1030.4	1009.9	1170.0	1424.6	1069.4	1003.8	1007.9	1018.1	1137.2	1607.3	1270.6
80°	702.0	708.2	851.9	1044.8	839.5	829.3	819.0	901.1	954.5	1272.7	923.7
82.5°	416.7	416.7	574.8	743.1	663.0	747.2	700.0	773.9	747.2	936.0	605.5
85°	195.0	195.0	295.6	535.8	513.2	615.8	523.4	585.0	552.2	652.8	273.0
87.5°	32.8	28.7	59.5	262.7	211.4	240.2	94.4	312.0	346.9	455.7	67.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1525.1	1510.8	1482.0	1445.1	1414.3	1375.3	1363.0	1336.3	1299.3	1295.2	1278.8
5°	1436.9	1387.6	1326.0	1250.1	1198.8	1145.4	1100.2	1073.6	1042.8	1038.7	1030.4
7.5°	1340.4	1278.8	1176.2	1085.9	997.6	913.4	872.4	821.1	786.2	759.5	747.2
10°	1250.1	1192.6	1065.3	942.2	864.2	808.8	759.5	706.1	663.0	630.2	617.9
12.5°	1190.6	1122.8	985.3	868.3	810.8	747.2	691.8	634.3	578.9	535.8	513.2
15°	1163.9	1100.2	960.7	831.3	747.2	658.9	595.3	537.8	470.1	439.3	429.0
17.5°	1227.5	1133.1	952.4	788.2	669.2	568.6	490.6	429.0	379.7	349.0	336.6
20°	1309.6	1192.6	966.8	736.9	595.3	482.4	396.2	330.5	297.6	275.1	273.0
22.5°	1414.3	1280.9	989.4	700.0	513.2	388.0	310.0	271.0	248.4	246.3	242.2
25°	1601.1	1441.0	1026.3	650.7	447.5	320.2	264.8	242.2	232.0	225.8	229.9
27.5°	1761.2	1545.7	1053.0	619.9	420.8	301.7	256.6	232.0	221.7	219.6	221.7
30°	1855.6	1642.1	1044.8	562.4	367.4	287.4	273.0	264.8	244.3	227.8	227.8
32.5°	1941.8	1703.7	1042.8	511.1	314.1	240.2	227.8	221.7	234.0	242.2	236.1
35°	2060.9	1800.2	1036.6	482.4	291.5	221.7	201.2	184.7	176.5	172.4	178.6
37.5°	2188.2	1865.9	1020.2	478.3	279.2	211.4	195.0	178.6	170.4	166.3	164.2
40°	2327.7	1935.7	1001.7	457.7	273.0	205.3	188.8	174.5	164.2	158.1	156.0
42.5°	2418.1	1991.1	983.2	447.5	260.7	201.2	182.7	170.4	160.1	151.9	151.9
45°	2469.4	2056.8	964.8	437.2	246.3	203.2	182.7	166.3	154.0	149.8	145.7
47.5°	2492.0	2106.1	958.6	420.8	234.0	195.0	178.6	162.2	149.8	141.6	139.6
50°	2551.5	2210.7	981.2	408.5	219.6	186.8	188.8	160.1	147.8	137.5	135.5
52.5°	2586.4	2294.9	1030.4	390.0	209.4	176.5	184.7	156.0	141.6	131.4	131.4
55°	2713.6	2434.5	1083.8	375.6	197.1	162.2	170.4	147.8	131.4	125.2	125.2
57.5°	2875.8	2582.3	1129.0	369.5	188.8	151.9	151.9	143.7	125.2	117.0	115.0
60°	2988.7	2703.4	1155.7	365.4	180.6	141.6	135.5	143.7	119.1	110.8	108.8
62.5°	3001.0	2633.6	1129.0	363.3	178.6	131.4	123.2	137.5	112.9	104.7	100.6
65°	2923.0	2492.0	1055.1	355.1	176.5	121.1	115.0	119.1	104.7	98.5	94.4
67.5°	2767.0	2262.1	948.3	351.0	174.5	112.9	104.7	102.6	96.5	90.3	86.2
70°	2403.7	1962.4	823.1	332.5	170.4	106.7	94.4	92.4	86.2	82.1	80.1
72.5°	2017.8	1605.2	679.4	307.9	162.2	96.5	86.2	82.1	80.1	73.9	71.8
75°	1545.7	1235.7	544.0	273.0	141.6	86.2	75.9	71.8	69.8	65.7	63.6
77.5°	1085.9	919.6	402.3	221.7	119.1	78.0	67.7	63.6	61.6	55.4	55.4
80°	736.9	644.5	273.0	154.0	92.4	63.6	59.5	55.4	51.3	47.2	47.2
82.5°	457.7	451.6	197.1	100.6	67.7	51.3	47.2	47.2	41.1	36.9	36.9
85°	209.4	277.1	137.5	69.8	51.3	39.0	39.0	36.9	32.8	26.7	26.7
87.5°	65.7	92.4	71.8	30.8	28.7	22.6	22.6	20.5	20.5	16.4	16.4
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°	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1295.2	1293.2	1293.2	1285.0	1305.5	1305.5	1317.8	1307.6	1313.7	1315.8	1332.2
5°	1028.4	1044.8	1057.1	1081.8	1096.1	1102.3	1102.3	1118.7	1112.6	1124.9	1149.5
7.5°	753.3	773.9	810.8	841.6	866.2	874.4	872.4	876.5	882.7	868.3	872.4
10°	609.6	595.3	607.6	636.3	658.9	685.6	665.1	663.0	669.2	663.0	675.3
12.5°	509.1	492.6	482.4	482.4	498.8	511.1	505.0	515.2	537.8	544.0	558.3
15°	412.6	398.2	390.0	379.7	396.2	400.3	406.4	420.8	437.2	445.4	461.9
17.5°	330.5	330.5	330.5	322.3	328.4	334.6	336.6	355.1	357.2	365.4	371.5
20°	271.0	277.1	287.4	291.5	297.6	297.6	293.5	303.8	295.6	301.7	305.8
22.5°	244.3	252.5	256.6	258.6	266.8	268.9	258.6	260.7	262.7	256.6	258.6
25°	229.9	234.0	229.9	232.0	234.0	229.9	232.0	236.1	234.0	238.1	236.1
27.5°	223.7	219.6	217.6	215.5	215.5	211.4	213.5	213.5	217.6	219.6	219.6
30°	223.7	217.6	209.4	203.2	203.2	197.1	201.2	205.3	207.3	211.4	211.4
32.5°	229.9	217.6	203.2	197.1	190.9	186.8	190.9	197.1	205.3	207.3	209.4
35°	182.7	188.8	186.8	178.6	176.5	176.5	174.5	174.5	168.3	168.3	166.3
37.5°	164.2	162.2	166.3	168.3	170.4	164.2	164.2	156.0	154.0	156.0	156.0
40°	154.0	154.0	154.0	160.1	162.2	158.1	151.9	147.8	147.8	147.8	149.8
42.5°	149.8	145.7	143.7	147.8	154.0	149.8	143.7	141.6	141.6	143.7	143.7
45°	143.7	141.6	139.6	137.5	145.7	139.6	137.5	135.5	135.5	135.5	137.5
47.5°	137.5	135.5	131.4	131.4	133.4	131.4	129.3	129.3	129.3	133.4	133.4
50°	133.4	131.4	127.3	127.3	127.3	127.3	125.2	125.2	125.2	127.3	129.3
52.5°	127.3	125.2	123.2	121.1	121.1	121.1	121.1	121.1	121.1	123.2	125.2
55°	121.1	119.1	117.0	117.0	119.1	119.1	117.0	119.1	117.0	119.1	121.1
57.5°	115.0	112.9	110.8	112.9	115.0	112.9	112.9	112.9	112.9	112.9	115.0
60°	106.7	106.7	106.7	106.7	110.8	110.8	110.8	110.8	106.7	108.8	110.8
62.5°	102.6	100.6	100.6	102.6	104.7	104.7	106.7	104.7	102.6	104.7	104.7
65°	94.4	94.4	94.4	96.5	96.5	98.5	98.5	98.5	96.5	98.5	98.5
67.5°	88.3	88.3	88.3	88.3	92.4	92.4	92.4	92.4	90.3	90.3	92.4
70°	78.0	80.1	78.0	82.1	86.2	84.2	86.2	86.2	84.2	82.1	86.2
72.5°	71.8	71.8	71.8	71.8	78.0	78.0	78.0	80.1	78.0	75.9	78.0
75°	63.6	63.6	63.6	65.7	69.8	69.8	69.8	69.8	69.8	67.7	67.7
77.5°	55.4	57.5	55.4	57.5	61.6	59.5	61.6	63.6	61.6	59.5	59.5
80°	47.2	47.2	47.2	49.3	51.3	51.3	51.3	53.4	51.3	49.3	49.3
82.5°	36.9	36.9	39.0	39.0	41.1	41.1	41.1	43.1	41.1	39.0	39.0
85°	28.7	28.7	28.7	30.8	30.8	32.8	32.8	34.9	34.9	32.8	32.8
87.5°	18.5	16.4	18.5	18.5	20.5	20.5	18.5	16.4	18.5	16.4	14.4
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°	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1348.6	1385.6	1412.2	1430.7	1457.4	1508.7	1529.2	1566.2	1576.5	1582.6
5°	1159.8	1198.8	1256.2	1297.3	1344.5	1441.0	1514.9	1570.3	1594.9	1617.5
7.5°	909.3	960.7	1020.2	1073.6	1151.6	1270.6	1367.1	1482.0	1525.1	1547.7
10°	710.2	757.4	823.1	888.8	997.6	1098.2	1235.7	1340.4	1399.9	1416.4
12.5°	599.4	654.8	732.8	812.9	880.6	995.6	1135.1	1287.0	1342.5	1352.7
15°	509.1	585.0	665.1	747.2	825.2	925.8	1075.6	1260.3	1342.5	1352.7
17.5°	420.8	488.5	583.0	671.2	761.5	899.1	1085.9	1282.9	1365.0	1395.8
20°	334.6	400.3	474.2	585.0	708.2	853.9	1108.4	1358.9	1467.7	1500.5
22.5°	277.1	305.8	377.7	484.4	630.2	823.1	1131.0	1477.9	1592.9	1605.2
25°	242.2	262.7	307.9	408.5	568.6	802.6	1184.4	1615.5	1763.3	1763.3
27.5°	225.8	234.0	264.8	355.1	525.5	784.1	1237.8	1767.4	1904.9	1933.6
30°	221.7	242.2	258.6	316.1	478.3	732.8	1287.0	1886.4	2028.1	2030.1
32.5°	217.6	213.5	225.8	275.1	420.8	679.4	1328.1	2007.5	2118.4	2124.5
35°	170.4	178.6	199.1	242.2	377.7	640.4	1348.6	2073.2	2233.3	2239.5
37.5°	160.1	170.4	186.8	223.7	349.0	607.6	1354.8	2200.5	2354.4	2366.7
40°	156.0	164.2	176.5	207.3	326.4	566.5	1367.1	2331.8	2533.0	2516.6
42.5°	147.8	158.1	170.4	199.1	307.9	535.8	1369.1	2403.7	2627.4	2627.4
45°	145.7	151.9	166.3	199.1	287.4	509.1	1336.3	2475.5	2736.2	2703.4
47.5°	137.5	149.8	162.2	193.0	262.7	482.4	1297.3	2512.5	2750.6	2740.3
50°	135.5	147.8	168.3	182.7	248.4	470.1	1289.1	2604.9	2779.3	2777.3
52.5°	131.4	143.7	174.5	174.5	229.9	453.6	1328.1	2645.9	2785.5	2801.9
55°	125.2	143.7	162.2	160.1	213.5	433.1	1371.2	2752.6	2894.3	2890.2
57.5°	121.1	139.6	154.0	145.7	195.0	418.7	1434.8	2855.3	3025.7	2996.9
60°	115.0	139.6	137.5	135.5	180.6	406.4	1488.2	2875.8	3054.4	3072.9
62.5°	110.8	145.7	121.1	125.2	168.3	400.3	1465.6	2721.9	3015.4	3031.8
65°	106.7	125.2	110.8	115.0	164.2	388.0	1377.4	2537.1	2847.1	2918.9
67.5°	98.5	102.6	102.6	106.7	160.1	359.2	1196.7	2204.6	2590.5	2629.5
70°	90.3	92.4	92.4	98.5	156.0	326.4	987.3	1906.9	2247.7	2321.6
72.5°	82.1	82.1	82.1	90.3	143.7	299.7	812.9	1465.6	1867.9	1919.3
75°	71.8	71.8	71.8	80.1	129.3	273.0	640.4	1090.0	1375.3	1449.2
77.5°	63.6	63.6	61.6	71.8	112.9	221.7	461.9	769.8	968.9	1030.4
80°	53.4	51.3	51.3	57.5	88.3	160.1	297.6	544.0	675.3	702.0
82.5°	43.1	41.1	39.0	43.1	63.6	100.6	184.7	379.7	433.1	416.7
85°	41.1	43.1	34.9	32.8	45.2	65.7	117.0	234.0	195.0	195.0
87.5°	16.4	14.4	14.4	12.3	22.6	24.6	51.3	43.1	32.8	32.8
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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