

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: P675880

Luminaire Tested: **CCW-SA-1F-827-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675880
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SLL distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

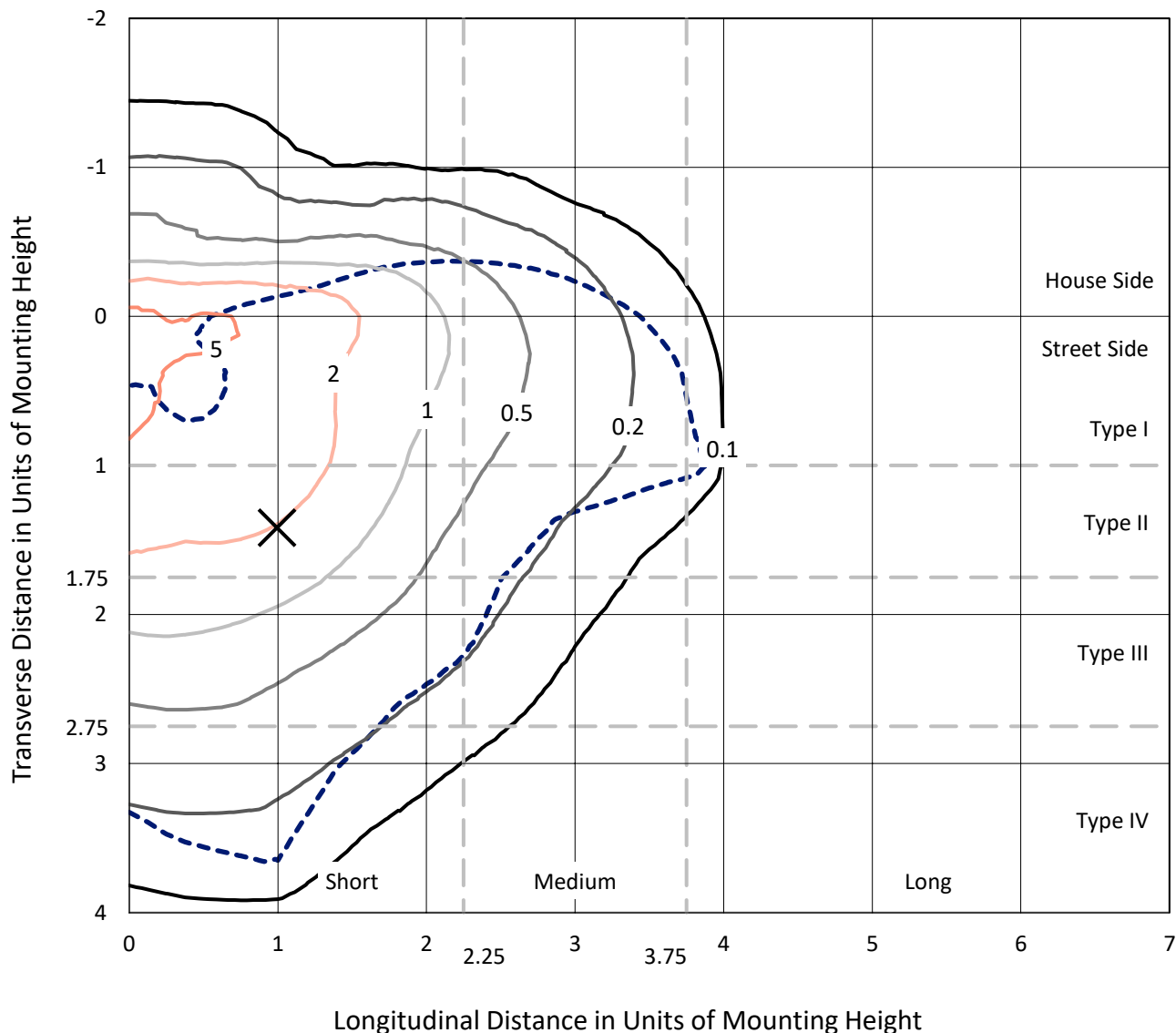
Lumens per Lamp: N/A
Luminaire Lumens: 4573.1 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

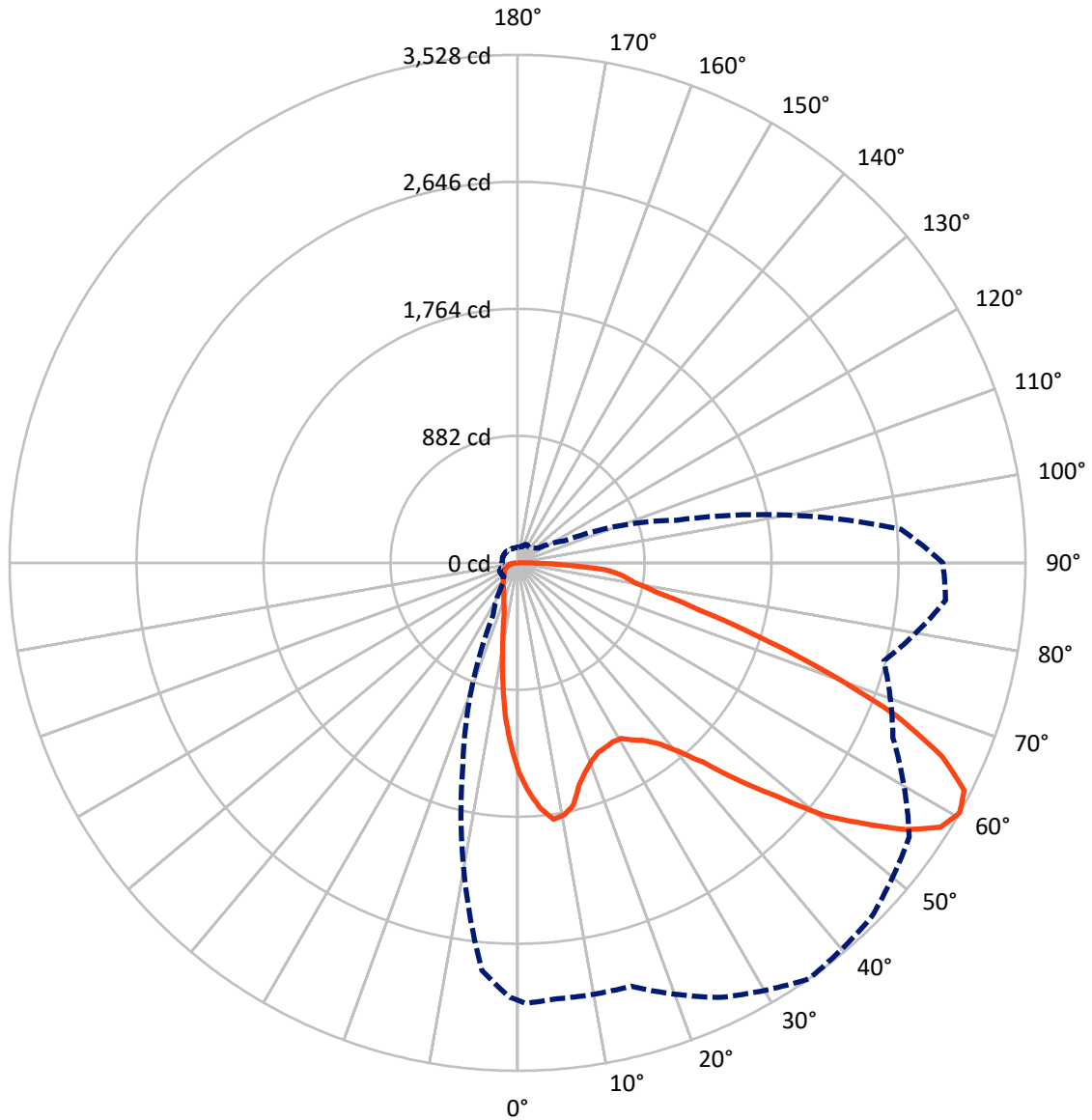
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 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	870.3	0.0	870.3
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3702.8	0.0	3702.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	4573.1	0.0	4573.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.5
10°-20°	239.6	5.2
20°-30°	350.5	7.7
30°-40°	493.9	10.8
40°-50°	678.7	14.8
50°-60°	925.0	20.2
60°-70°	1012.4	22.1
70°-80°	584.5	12.8
80°-90°	175.0	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°	4573.1	100.0
0°-180°	4573.1	100.0

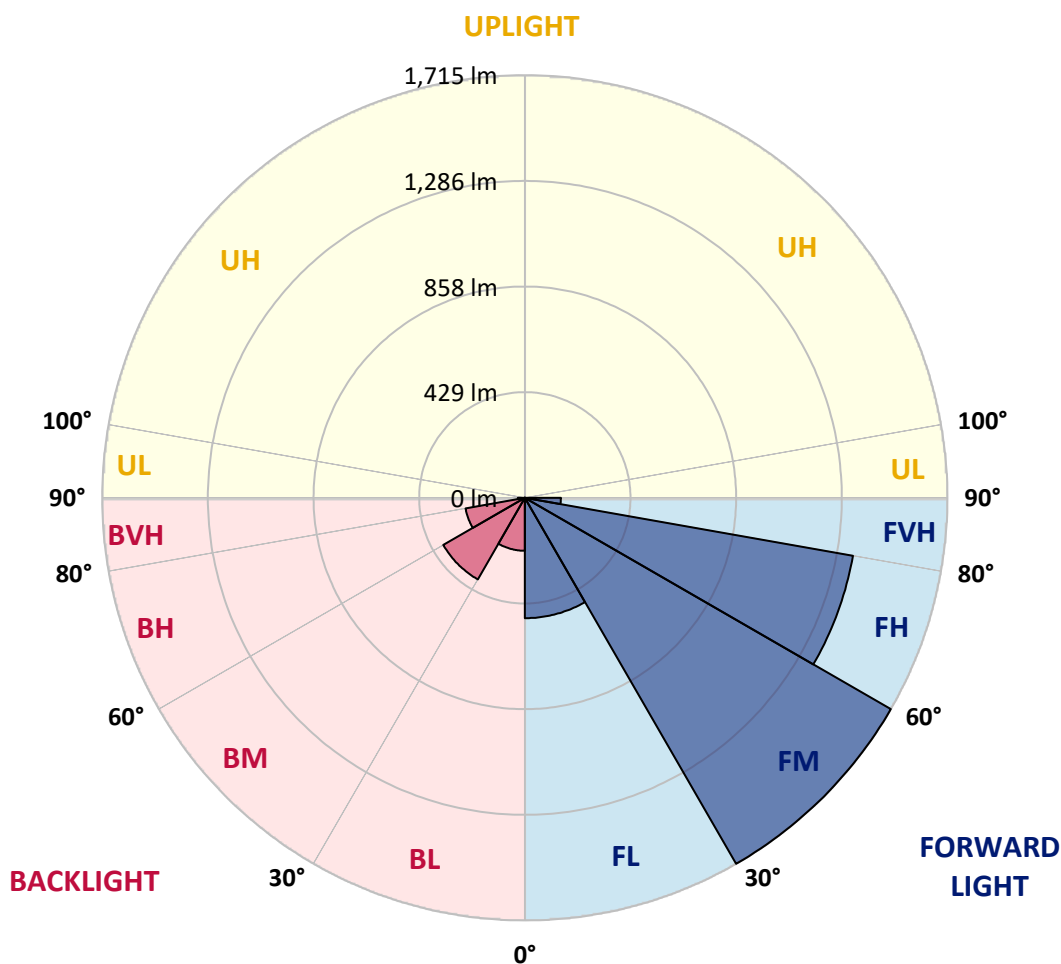


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.5	10.7			
FM (30°-60°)	1715.3	37.5			
FH (60°-80°)	1352.4	29.6			G1/1800
FVH (80°-90°)	146.5	3.2			G2/225
BL (0°-30°)	215.0	4.7	B1/500		
BM (30°-60°)	382.3	8.4	B1/1000		
BH (60°-80°)	244.4	5.3	B1/500		G1/500
BVH (80°-90°)	28.5	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°	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1564.1	1558.0	1564.1	1586.4	1592.5	1602.6	1602.6	1588.4	1562.0	1549.9	1529.6
5°	1598.6	1588.4	1639.1	1685.8	1722.3	1718.2	1683.8	1655.4	1602.6	1523.5	1448.4
7.5°	1529.6	1539.7	1576.2	1698.0	1783.2	1799.4	1744.6	1687.8	1574.2	1464.7	1363.2
10°	1399.8	1414.0	1493.1	1618.8	1752.7	1779.1	1744.6	1675.6	1539.7	1403.8	1286.2
12.5°	1336.9	1369.3	1416.0	1568.1	1663.5	1726.4	1710.1	1665.5	1513.4	1353.1	1239.5
15°	1336.9	1345.0	1414.0	1541.8	1596.5	1598.6	1604.6	1612.8	1521.5	1375.4	1223.3
17.5°	1379.5	1401.8	1460.6	1539.7	1549.9	1525.5	1525.5	1560.0	1537.7	1438.3	1282.1
20°	1482.9	1474.8	1551.9	1584.4	1529.6	1468.7	1462.6	1521.5	1556.0	1505.2	1389.6
22.5°	1586.4	1622.9	1685.8	1612.8	1511.3	1430.2	1422.1	1495.1	1610.7	1620.9	1513.4
25°	1742.6	1779.1	1811.6	1722.3	1509.3	1420.0	1426.1	1482.9	1677.7	1785.2	1720.3
27.5°	1911.0	1933.3	1979.9	1842.0	1558.0	1407.9	1414.0	1499.2	1740.6	1892.7	1882.6
30°	2006.3	2030.7	2020.5	1864.3	1590.4	1416.0	1399.8	1521.5	1706.1	1892.7	1988.1
32.5°	2099.6	2085.4	2079.3	1900.8	1631.0	1466.7	1426.1	1568.1	1726.4	1923.1	2124.0
35°	2213.2	2192.9	2176.7	1971.8	1698.0	1515.4	1497.1	1629.0	1771.0	1986.0	2233.5
37.5°	2339.0	2339.0	2259.9	2024.6	1777.1	1594.5	1574.2	1716.2	1842.0	2024.6	2383.6
40°	2487.1	2493.2	2353.2	2095.6	1866.3	1720.3	1714.2	1829.8	1911.0	2081.4	2527.7
42.5°	2596.6	2600.7	2434.4	2121.9	1969.8	1894.7	1921.1	2012.4	1990.1	2132.1	2537.8
45°	2671.7	2651.4	2491.2	2197.0	2083.4	2156.4	2164.5	2190.9	2093.5	2162.5	2578.4
47.5°	2708.2	2704.2	2515.5	2284.2	2322.8	2422.2	2468.8	2432.3	2188.9	2130.1	2578.4
50°	2744.7	2710.2	2537.8	2403.9	2556.1	2756.9	2746.8	2679.8	2320.8	2170.6	2539.8
52.5°	2769.1	2738.6	2582.4	2511.4	2779.2	3006.4	3047.0	2923.3	2474.9	2245.7	2558.1
55°	2856.3	2832.0	2716.3	2657.5	3036.9	3270.2	3276.2	3103.8	2637.2	2369.4	2677.8
57.5°	2961.8	2976.0	2900.9	2864.4	3233.6	3462.9	3440.6	3237.7	2775.2	2519.6	2815.7
60°	3036.9	3059.2	3040.9	3045.0	3331.0	3527.8	3477.1	3320.9	2876.6	2633.2	2984.1
62.5°	2996.3	3040.9	3116.0	3099.7	3335.1	3481.1	3410.1	3211.3	2888.8	2781.3	3111.9
65°	2884.7	2888.8	3034.8	3124.1	3152.5	3239.7	3146.4	2982.1	2763.0	2872.5	3093.7
67.5°	2598.7	2631.1	2763.0	2937.5	2817.8	2838.1	2829.9	2592.6	2572.3	2809.7	2953.7
70°	2294.4	2316.7	2460.7	2665.6	2379.6	2284.2	2302.5	2126.0	2209.2	2614.9	2671.7
72.5°	1896.8	1911.0	2075.3	2255.8	1908.9	1738.5	1781.1	1637.1	1754.8	2288.3	2253.8
75°	1432.2	1458.6	1586.4	1799.4	1405.8	1296.3	1338.9	1280.1	1389.6	1884.6	1748.7
77.5°	1018.4	998.1	1156.3	1407.9	1056.9	992.0	996.1	1006.2	1123.9	1588.4	1255.7
80°	693.8	699.9	841.9	1032.6	829.7	819.6	809.4	890.6	943.3	1257.8	912.9
82.5°	411.8	411.8	568.0	734.4	655.2	738.4	691.8	764.8	738.4	925.1	598.4
85°	192.7	192.7	292.1	529.5	507.2	608.6	517.3	578.2	545.7	645.1	269.8
87.5°	32.5	28.4	58.8	259.7	208.9	237.3	93.3	308.4	342.8	450.4	66.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1507.3	1493.1	1464.7	1428.2	1397.7	1359.2	1347.0	1320.6	1284.1	1280.1	1263.8
5°	1420.0	1371.4	1310.5	1235.4	1184.7	1132.0	1087.3	1061.0	1030.5	1026.5	1018.4
7.5°	1324.7	1263.8	1162.4	1073.1	985.9	902.7	862.2	811.5	777.0	750.6	738.4
10°	1235.4	1178.6	1052.9	931.1	854.1	799.3	750.6	697.8	655.2	622.8	610.6
12.5°	1176.6	1109.7	973.7	858.1	801.3	738.4	683.6	626.8	572.1	529.5	507.2
15°	1150.2	1087.3	949.4	821.6	738.4	651.2	588.3	531.5	464.6	434.1	424.0
17.5°	1213.1	1119.8	941.3	779.0	661.3	561.9	484.8	424.0	375.3	344.9	332.7
20°	1294.3	1178.6	955.5	728.3	588.3	476.7	391.5	326.6	294.2	271.8	269.8
22.5°	1397.7	1265.9	977.8	691.8	507.2	383.4	306.3	267.8	245.5	243.4	239.4
25°	1582.3	1424.1	1014.3	643.1	442.2	316.5	261.7	239.4	229.2	223.1	227.2
27.5°	1740.6	1527.6	1040.7	612.6	415.9	298.2	253.6	229.2	219.1	217.1	219.1
30°	1833.9	1622.9	1032.6	555.8	363.1	284.0	269.8	261.7	241.4	225.2	225.2
32.5°	1919.1	1683.8	1030.5	505.1	310.4	237.3	225.2	219.1	231.3	239.4	233.3
35°	2036.7	1779.1	1024.5	476.7	288.1	219.1	198.8	182.6	174.5	170.4	176.5
37.5°	2162.5	1844.0	1008.2	472.7	275.9	208.9	192.7	176.5	168.4	164.3	162.3
40°	2300.5	1913.0	990.0	452.4	269.8	202.9	186.6	172.4	162.3	156.2	154.2
42.5°	2389.7	1967.8	971.7	442.2	257.6	198.8	180.5	168.4	158.2	150.1	150.1
45°	2440.4	2032.7	953.5	432.1	243.4	200.8	180.5	164.3	152.1	148.1	144.0
47.5°	2462.8	2081.4	947.4	415.9	231.3	192.7	176.5	160.3	148.1	140.0	137.9
50°	2521.6	2184.8	969.7	403.7	217.1	184.6	186.6	158.2	146.1	135.9	133.9
52.5°	2556.1	2268.0	1018.4	385.4	206.9	174.5	182.6	154.2	140.0	129.8	129.8
55°	2681.8	2406.0	1071.1	371.2	194.7	160.3	168.4	146.1	129.8	123.7	123.7
57.5°	2842.1	2552.0	1115.7	365.2	186.6	150.1	150.1	142.0	123.7	115.6	113.6
60°	2953.7	2671.7	1142.1	361.1	178.5	140.0	133.9	142.0	117.7	109.5	107.5
62.5°	2965.9	2602.7	1115.7	359.1	176.5	129.8	121.7	135.9	111.6	103.5	99.4
65°	2888.8	2462.8	1042.7	351.0	174.5	119.7	113.6	117.7	103.5	97.4	93.3
67.5°	2734.6	2235.5	937.2	346.9	172.4	111.6	103.5	101.4	95.3	89.3	85.2
70°	2375.5	1939.4	813.5	328.6	168.4	105.5	93.3	91.3	85.2	81.1	79.1
72.5°	1994.1	1586.4	671.5	304.3	160.3	95.3	85.2	81.1	79.1	73.0	71.0
75°	1527.6	1221.2	537.6	269.8	140.0	85.2	75.1	71.0	69.0	64.9	62.9
77.5°	1073.1	908.8	397.6	219.1	117.7	77.1	66.9	62.9	60.9	54.8	54.8
80°	728.3	637.0	269.8	152.1	91.3	62.9	58.8	54.8	50.7	46.7	46.7
82.5°	452.4	446.3	194.7	99.4	66.9	50.7	46.7	46.7	40.6	36.5	36.5
85°	206.9	273.9	135.9	69.0	50.7	38.5	38.5	36.5	32.5	26.4	26.4
87.5°	64.9	91.3	71.0	30.4	28.4	22.3	22.3	20.3	20.3	16.2	16.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1280.1	1278.0	1278.0	1269.9	1290.2	1290.2	1302.4	1292.2	1298.3	1300.4	1316.6
5°	1016.3	1032.6	1044.7	1069.1	1083.3	1089.4	1089.4	1105.6	1099.5	1111.7	1136.0
7.5°	744.5	764.8	801.3	831.7	856.1	864.2	862.2	866.2	872.3	858.1	862.2
10°	602.5	588.3	600.5	628.9	651.2	677.6	657.3	655.2	661.3	655.2	667.4
12.5°	503.1	486.9	476.7	476.7	493.0	505.1	499.0	509.2	531.5	537.6	551.8
15°	407.8	393.6	385.4	375.3	391.5	395.6	401.7	415.9	432.1	440.2	456.4
17.5°	326.6	326.6	326.6	318.5	324.6	330.7	332.7	351.0	353.0	361.1	367.2
20°	267.8	273.9	284.0	288.1	294.2	294.2	290.1	300.2	292.1	298.2	302.3
22.5°	241.4	249.5	253.6	255.6	263.7	265.8	255.6	257.6	259.7	253.6	255.6
25°	227.2	231.3	227.2	229.2	231.3	227.2	229.2	233.3	231.3	235.3	233.3
27.5°	221.1	217.1	215.0	213.0	213.0	208.9	211.0	211.0	215.0	217.1	217.1
30°	221.1	215.0	206.9	200.8	200.8	194.7	198.8	202.9	204.9	208.9	208.9
32.5°	227.2	215.0	200.8	194.7	188.7	184.6	188.7	194.7	202.9	204.9	206.9
35°	180.5	186.6	184.6	176.5	174.5	174.5	172.4	172.4	166.3	166.3	164.3
37.5°	162.3	160.3	164.3	166.3	168.4	162.3	162.3	154.2	152.1	154.2	154.2
40°	152.1	152.1	152.1	158.2	160.3	156.2	150.1	146.1	146.1	146.1	148.1
42.5°	148.1	144.0	142.0	146.1	152.1	148.1	142.0	140.0	140.0	142.0	142.0
45°	142.0	140.0	137.9	135.9	144.0	137.9	135.9	133.9	133.9	133.9	135.9
47.5°	135.9	133.9	129.8	129.8	131.9	129.8	127.8	127.8	127.8	131.9	131.9
50°	131.9	129.8	125.8	125.8	125.8	125.8	123.7	123.7	123.7	125.8	127.8
52.5°	125.8	123.7	121.7	119.7	119.7	119.7	119.7	119.7	119.7	121.7	123.7
55°	119.7	117.7	115.6	115.6	117.7	117.7	115.6	117.7	115.6	117.7	119.7
57.5°	113.6	111.6	109.5	111.6	113.6	111.6	111.6	111.6	111.6	111.6	113.6
60°	105.5	105.5	105.5	105.5	109.5	109.5	109.5	109.5	105.5	107.5	109.5
62.5°	101.4	99.4	99.4	101.4	103.5	103.5	105.5	103.5	101.4	103.5	103.5
65°	93.3	93.3	93.3	95.3	95.3	97.4	97.4	97.4	95.3	97.4	97.4
67.5°	87.2	87.2	87.2	87.2	91.3	91.3	91.3	91.3	89.3	89.3	91.3
70°	77.1	79.1	77.1	81.1	85.2	83.2	85.2	85.2	83.2	81.1	85.2
72.5°	71.0	71.0	71.0	71.0	77.1	77.1	77.1	79.1	77.1	75.1	77.1
75°	62.9	62.9	62.9	64.9	69.0	69.0	69.0	69.0	69.0	66.9	66.9
77.5°	54.8	56.8	54.8	56.8	60.9	58.8	60.9	62.9	60.9	58.8	58.8
80°	46.7	46.7	46.7	48.7	50.7	50.7	50.7	52.7	50.7	48.7	48.7
82.5°	36.5	36.5	38.5	38.5	40.6	40.6	40.6	42.6	40.6	38.5	38.5
85°	28.4	28.4	28.4	30.4	30.4	32.5	32.5	34.5	34.5	32.5	32.5
87.5°	18.3	16.2	18.3	18.3	20.3	20.3	18.3	16.2	18.3	16.2	14.2
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°	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1332.8	1369.3	1395.7	1414.0	1440.3	1491.0	1511.3	1547.8	1558.0	1564.1
5°	1146.2	1184.7	1241.5	1282.1	1328.8	1424.1	1497.1	1551.9	1576.2	1598.6
7.5°	898.7	949.4	1008.2	1061.0	1138.1	1255.7	1351.1	1464.7	1507.3	1529.6
10°	701.9	748.6	813.5	878.4	985.9	1085.3	1221.2	1324.7	1383.5	1399.8
12.5°	592.4	647.1	724.2	803.3	870.3	983.9	1121.8	1272.0	1326.7	1336.9
15°	503.1	578.2	657.3	738.4	815.5	914.9	1063.0	1245.6	1326.7	1336.9
17.5°	415.9	482.8	576.1	663.4	752.6	888.5	1073.1	1267.9	1349.0	1379.5
20°	330.7	395.6	468.6	578.2	699.9	843.9	1095.5	1343.0	1450.5	1482.9
22.5°	273.9	302.3	373.3	478.8	622.8	813.5	1117.8	1460.6	1574.2	1586.4
25°	239.4	259.7	304.3	403.7	561.9	793.2	1170.5	1596.5	1742.6	1742.6
27.5°	223.1	231.3	261.7	351.0	519.3	774.9	1223.3	1746.7	1882.6	1911.0
30°	219.1	239.4	255.6	312.4	472.7	724.2	1272.0	1864.3	2004.3	2006.3
32.5°	215.0	211.0	223.1	271.8	415.9	671.5	1312.5	1984.0	2093.5	2099.6
35°	168.4	176.5	196.8	239.4	373.3	632.9	1332.8	2048.9	2207.1	2213.2
37.5°	158.2	168.4	184.6	221.1	344.9	600.5	1338.9	2174.7	2326.8	2339.0
40°	154.2	162.3	174.5	204.9	322.6	559.9	1351.1	2304.5	2503.3	2487.1
42.5°	146.1	156.2	168.4	196.8	304.3	529.5	1353.1	2375.5	2596.6	2596.6
45°	144.0	150.1	164.3	196.8	284.0	503.1	1320.6	2446.5	2704.2	2671.7
47.5°	135.9	148.1	160.3	190.7	259.7	476.7	1282.1	2483.0	2718.4	2708.2
50°	133.9	146.1	166.3	180.5	245.5	464.6	1274.0	2574.3	2746.8	2744.7
52.5°	129.8	142.0	172.4	172.4	227.2	448.3	1312.5	2614.9	2752.9	2769.1
55°	123.7	142.0	160.3	158.2	211.0	428.0	1355.1	2720.4	2860.4	2856.3
57.5°	119.7	137.9	152.1	144.0	192.7	413.8	1418.0	2821.8	2990.2	2961.8
60°	113.6	137.9	135.9	133.9	178.5	401.7	1470.8	2842.1	3018.6	3036.9
62.5°	109.5	144.0	119.7	123.7	166.3	395.6	1448.4	2690.0	2980.1	2996.3
65°	105.5	123.7	109.5	113.6	162.3	383.4	1361.2	2507.4	2813.7	2884.7
67.5°	97.4	101.4	101.4	105.5	158.2	355.0	1182.7	2178.7	2560.1	2598.7
70°	89.3	91.3	91.3	97.4	154.2	322.6	975.8	1884.6	2221.3	2294.4
72.5°	81.1	81.1	81.1	89.3	142.0	296.2	803.3	1448.4	1846.1	1896.8
75°	71.0	71.0	71.0	79.1	127.8	269.8	632.9	1077.2	1359.2	1432.2
77.5°	62.9	62.9	60.9	71.0	111.6	219.1	456.4	760.7	957.5	1018.4
80°	52.7	50.7	50.7	56.8	87.2	158.2	294.2	537.6	667.4	693.8
82.5°	42.6	40.6	38.5	42.6	62.9	99.4	182.6	375.3	428.0	411.8
85°	40.6	42.6	34.5	32.5	44.6	64.9	115.6	231.3	192.7	192.7
87.5°	16.2	14.2	14.2	12.2	22.3	24.3	50.7	42.6	32.5	32.5
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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