

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: P675801

Luminaire Tested: **CCW-SA-1D-722-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675801
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-722-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

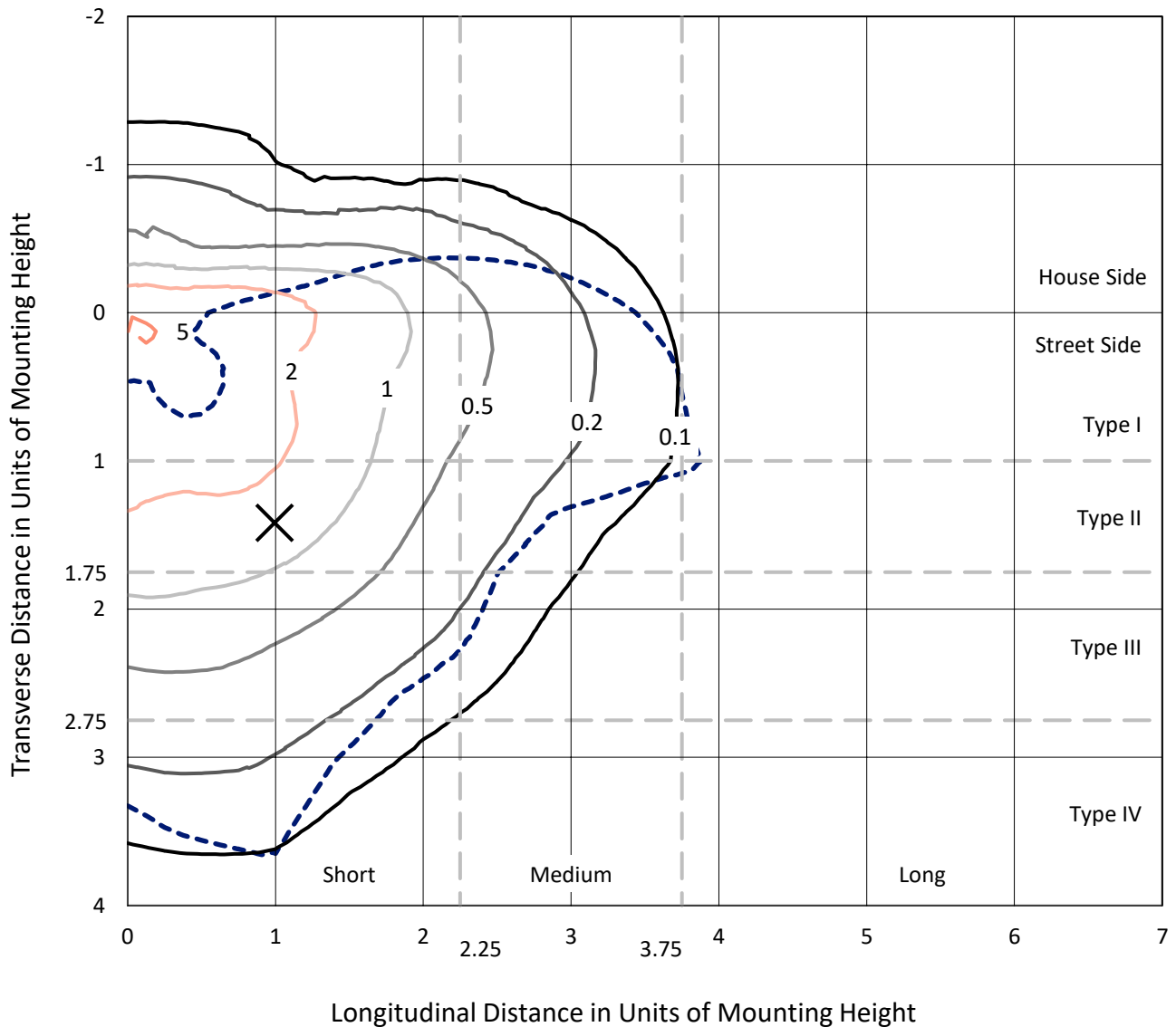
Lumens per Lamp: N/A
Luminaire Lumens: 3408.5 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

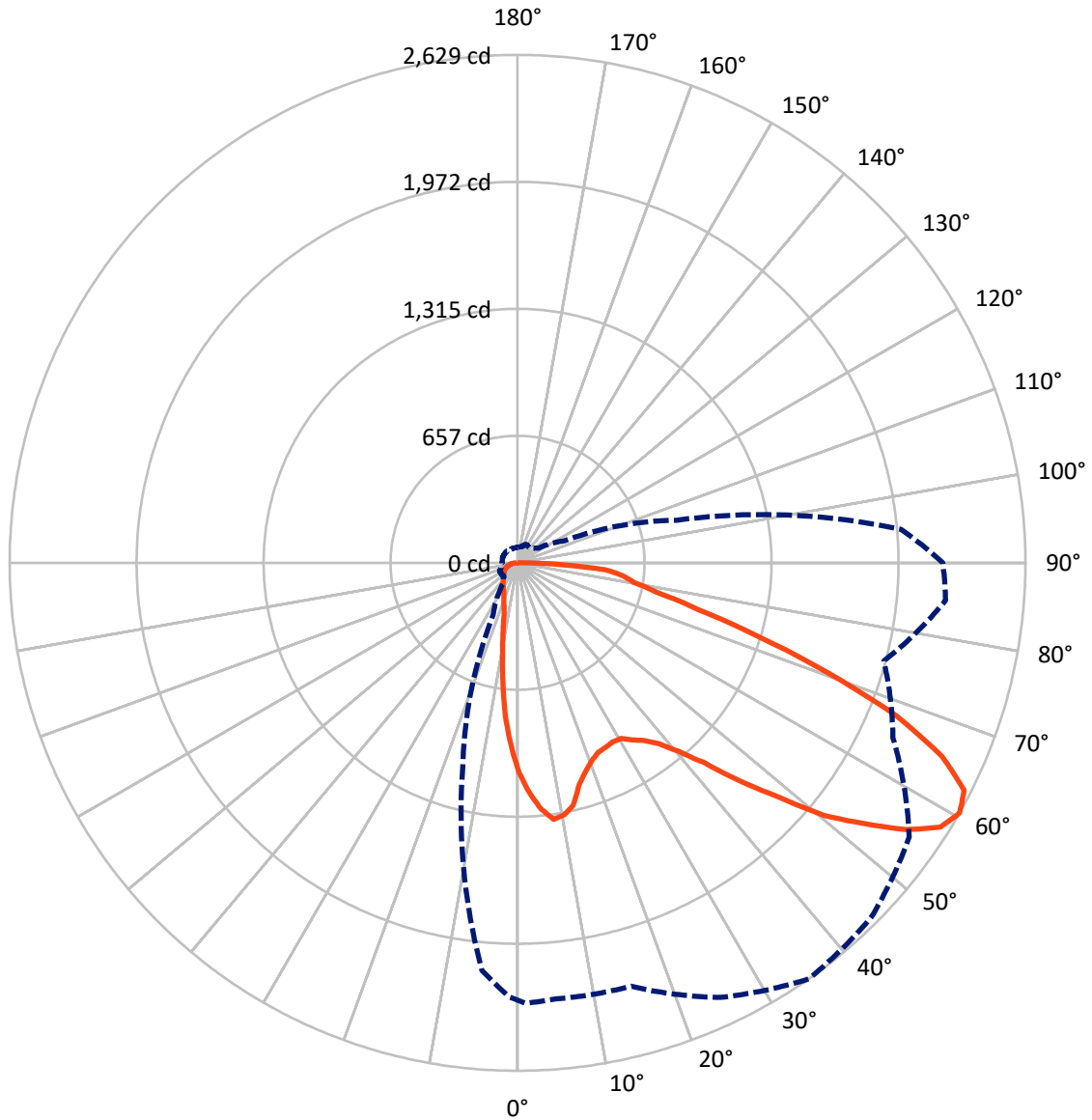
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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	648.7	0.0	648.7
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2759.8	0.0	2759.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	3408.5	0.0	3408.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	2.5
10°-20°	178.6	5.2
20°-30°	261.3	7.7
30°-40°	368.1	10.8
40°-50°	505.9	14.8
50°-60°	689.4	20.2
60°-70°	754.6	22.1
70°-80°	435.6	12.8
80°-90°	130.5	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°	3408.5	100.0
0°-180°	3408.5	100.0

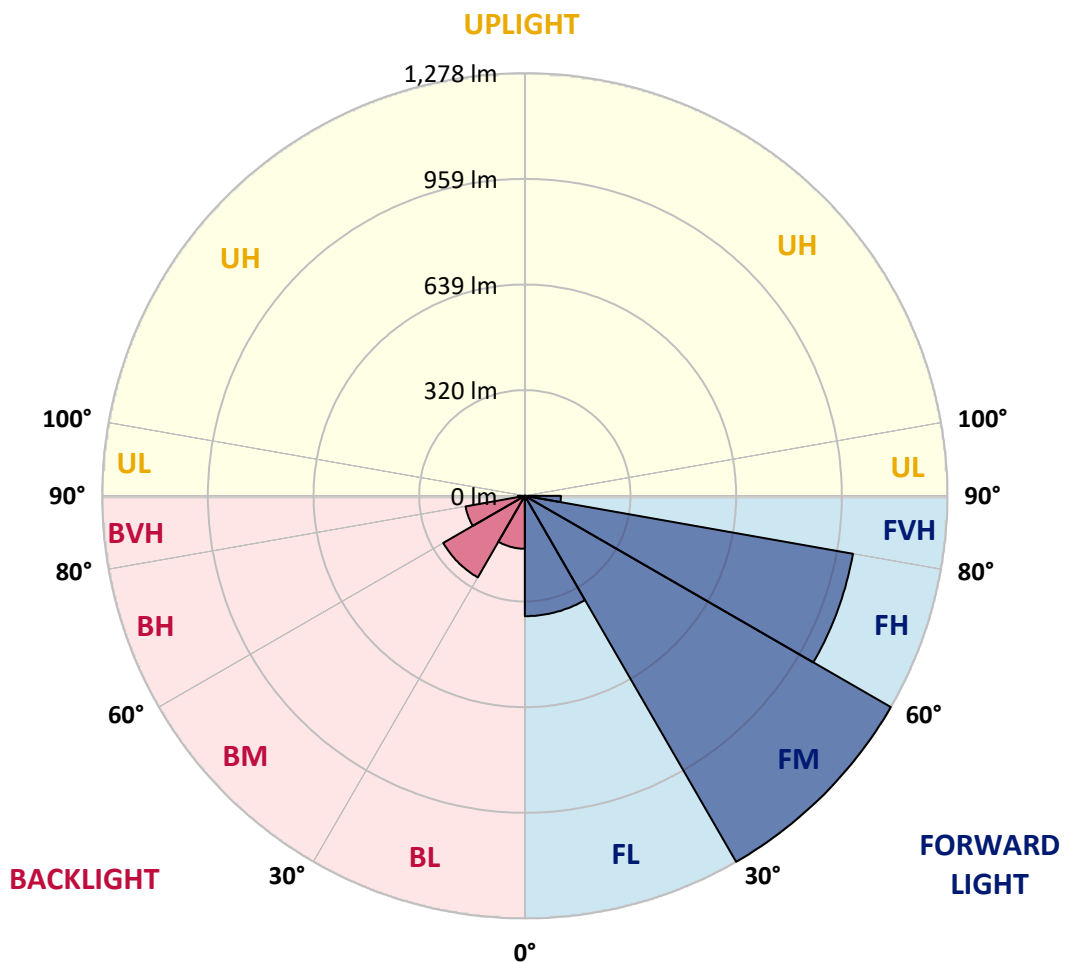


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.1	10.7			
FM (30°-60°)	1278.5	37.5			
FH (60°-80°)	1008.0	29.6			G1/1800
FVH (80°-90°)	109.2	3.2			G2/225
BL (0°-30°)	160.3	4.7	B1/500		
BM (30°-60°)	285.0	8.4	B1/1000		
BH (60°-80°)	182.2	5.3	B1/500		G1/500
BVH (80°-90°)	21.3	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°	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6
2.5°	1165.8	1161.2	1165.8	1182.4	1186.9	1194.5	1194.5	1183.9	1164.2	1155.2	1140.1
5°	1191.5	1183.9	1221.7	1256.5	1283.7	1280.7	1255.0	1233.8	1194.5	1135.5	1079.6
7.5°	1140.1	1147.6	1174.8	1265.5	1329.1	1341.1	1300.3	1258.0	1173.3	1091.7	1016.1
10°	1043.3	1053.9	1112.8	1206.6	1306.4	1326.0	1300.3	1248.9	1147.6	1046.3	958.6
12.5°	996.4	1020.6	1055.4	1168.8	1239.8	1286.7	1274.6	1241.4	1128.0	1008.5	923.8
15°	996.4	1002.5	1053.9	1149.1	1189.9	1191.5	1196.0	1202.0	1134.0	1025.1	911.7
17.5°	1028.2	1044.8	1088.6	1147.6	1155.2	1137.0	1137.0	1162.7	1146.1	1072.0	955.6
20°	1105.3	1099.2	1156.7	1180.9	1140.1	1094.7	1090.2	1134.0	1159.7	1121.9	1035.7
22.5°	1182.4	1209.6	1256.5	1202.0	1126.4	1066.0	1059.9	1114.3	1200.5	1208.1	1128.0
25°	1298.8	1326.0	1350.2	1283.7	1124.9	1058.4	1062.9	1105.3	1250.4	1330.6	1282.2
27.5°	1424.3	1440.9	1475.7	1372.9	1161.2	1049.3	1053.9	1117.4	1297.3	1410.7	1403.1
30°	1495.4	1513.5	1506.0	1389.5	1185.4	1055.4	1043.3	1134.0	1271.6	1410.7	1481.8
32.5°	1564.9	1554.3	1549.8	1416.7	1215.7	1093.2	1062.9	1168.8	1286.7	1433.4	1583.1
35°	1649.6	1634.5	1622.4	1469.7	1265.5	1129.5	1115.9	1214.1	1320.0	1480.3	1664.7
37.5°	1743.3	1743.3	1684.4	1509.0	1324.5	1188.4	1173.3	1279.2	1372.9	1509.0	1776.6
40°	1853.7	1858.3	1753.9	1561.9	1391.0	1282.2	1277.6	1363.8	1424.3	1551.3	1884.0
42.5°	1935.4	1938.4	1814.4	1581.6	1468.2	1412.2	1431.9	1499.9	1483.3	1589.1	1891.5
45°	1991.3	1976.2	1856.7	1637.5	1552.8	1607.3	1613.3	1633.0	1560.4	1611.8	1921.8
47.5°	2018.5	2015.5	1874.9	1702.5	1731.2	1805.3	1840.1	1812.9	1631.5	1587.6	1921.8
50°	2045.7	2020.0	1891.5	1791.7	1905.1	2054.8	2047.3	1997.4	1729.7	1617.8	1893.0
52.5°	2063.9	2041.2	1924.8	1871.9	2071.4	2240.8	2271.0	2178.8	1844.6	1673.8	1906.6
55°	2128.9	2110.8	2024.6	1980.7	2263.5	2437.4	2441.9	2313.4	1965.6	1766.0	1995.8
57.5°	2207.5	2218.1	2162.2	2135.0	2410.1	2581.0	2564.4	2413.2	2068.4	1877.9	2098.7
60°	2263.5	2280.1	2266.5	2269.5	2482.7	2629.4	2591.6	2475.2	2144.0	1962.6	2224.2
62.5°	2233.2	2266.5	2322.4	2310.3	2485.7	2594.6	2541.7	2393.5	2153.1	2073.0	2319.4
65°	2150.1	2153.1	2262.0	2328.5	2349.7	2414.7	2345.1	2222.6	2059.4	2141.0	2305.8
67.5°	1936.9	1961.1	2059.4	2189.4	2100.2	2115.3	2109.2	1932.3	1917.2	2094.1	2201.5
70°	1710.1	1726.7	1834.1	1986.8	1773.6	1702.5	1716.1	1584.6	1646.6	1949.0	1991.3
72.5°	1413.7	1424.3	1546.8	1681.4	1422.8	1295.8	1327.5	1220.2	1307.9	1705.5	1679.8
75°	1067.5	1087.1	1182.4	1341.1	1047.8	966.2	997.9	954.1	1035.7	1404.7	1303.3
77.5°	759.0	743.9	861.8	1049.3	787.8	739.4	742.4	750.0	837.7	1183.9	935.9
80°	517.1	521.6	627.5	769.6	618.4	610.9	603.3	663.8	703.1	937.4	680.4
82.5°	306.9	306.9	423.4	547.3	488.4	550.4	515.6	570.0	550.4	689.5	446.0
85°	143.6	143.6	217.7	394.6	378.0	453.6	385.6	430.9	406.7	480.8	201.1
87.5°	24.2	21.2	43.8	193.5	155.7	176.9	69.6	229.8	255.5	335.7	49.9
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°	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6
2.5°	1123.4	1112.8	1091.7	1064.5	1041.8	1013.0	1004.0	984.3	957.1	954.1	942.0
5°	1058.4	1022.1	976.8	920.8	883.0	843.7	810.4	790.8	768.1	765.1	759.0
7.5°	987.3	942.0	866.4	799.9	734.8	672.8	642.6	604.8	579.1	559.4	550.4
10°	920.8	878.5	784.7	694.0	636.6	595.7	559.4	520.1	488.4	464.2	455.1
12.5°	877.0	827.1	725.8	639.6	597.2	550.4	509.5	467.2	426.4	394.6	378.0
15°	857.3	810.4	707.6	612.4	550.4	485.4	438.5	396.1	346.2	323.6	316.0
17.5°	904.2	834.6	701.6	580.6	492.9	418.8	361.4	316.0	279.7	257.0	248.0
20°	964.7	878.5	712.2	542.8	438.5	355.3	291.8	243.4	219.2	202.6	201.1
22.5°	1041.8	943.5	728.8	515.6	378.0	285.8	228.3	199.6	183.0	181.4	178.4
25°	1179.4	1061.4	756.0	479.3	329.6	235.9	195.0	178.4	170.9	166.3	169.3
27.5°	1297.3	1138.5	775.7	456.6	310.0	222.3	189.0	170.9	163.3	161.8	163.3
30°	1366.9	1209.6	769.6	414.3	270.6	211.7	201.1	195.0	179.9	167.8	167.8
32.5°	1430.4	1255.0	768.1	376.5	231.3	176.9	167.8	163.3	172.4	178.4	173.9
35°	1518.1	1326.0	763.6	355.3	214.7	163.3	148.2	136.1	130.0	127.0	131.5
37.5°	1611.8	1374.4	751.5	352.3	205.6	155.7	143.6	131.5	125.5	122.5	121.0
40°	1714.6	1425.8	737.9	337.2	201.1	151.2	139.1	128.5	121.0	116.4	114.9
42.5°	1781.1	1466.6	724.3	329.6	192.0	148.2	134.6	125.5	117.9	111.9	111.9
45°	1818.9	1515.0	710.6	322.1	181.4	149.7	134.6	122.5	113.4	110.4	107.4
47.5°	1835.6	1551.3	706.1	310.0	172.4	143.6	131.5	119.4	110.4	104.3	102.8
50°	1879.4	1628.4	722.7	300.9	161.8	137.6	139.1	117.9	108.9	101.3	99.8
52.5°	1905.1	1690.4	759.0	287.3	154.2	130.0	136.1	114.9	104.3	96.8	96.8
55°	1998.9	1793.2	798.3	276.7	145.2	119.4	125.5	108.9	96.8	92.2	92.2
57.5°	2118.3	1902.1	831.6	272.2	139.1	111.9	111.9	105.8	92.2	86.2	84.7
60°	2201.5	1991.3	851.3	269.1	133.1	104.3	99.8	105.8	87.7	81.6	80.1
62.5°	2210.6	1939.9	831.6	267.6	131.5	96.8	90.7	101.3	83.2	77.1	74.1
65°	2153.1	1835.6	777.2	261.6	130.0	89.2	84.7	87.7	77.1	72.6	69.6
67.5°	2038.2	1666.2	698.5	258.6	128.5	83.2	77.1	75.6	71.1	66.5	63.5
70°	1770.6	1445.5	606.3	244.9	125.5	78.6	69.6	68.0	63.5	60.5	59.0
72.5°	1486.3	1182.4	500.5	226.8	119.4	71.1	63.5	60.5	59.0	54.4	52.9
75°	1138.5	910.2	400.7	201.1	104.3	63.5	55.9	52.9	51.4	48.4	46.9
77.5°	799.9	677.4	296.4	163.3	87.7	57.5	49.9	46.9	45.4	40.8	40.8
80°	542.8	474.8	201.1	113.4	68.0	46.9	43.8	40.8	37.8	34.8	34.8
82.5°	337.2	332.6	145.2	74.1	49.9	37.8	34.8	34.8	30.2	27.2	27.2
85°	154.2	204.1	101.3	51.4	37.8	28.7	28.7	27.2	24.2	19.7	19.7
87.5°	48.4	68.0	52.9	22.7	21.2	16.6	16.6	15.1	15.1	12.1	12.1
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°	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6
2.5°	954.1	952.6	952.6	946.5	961.6	961.6	970.7	963.1	967.7	969.2	981.3
5°	757.5	769.6	778.7	796.8	807.4	811.9	811.9	824.0	819.5	828.6	846.7
7.5°	554.9	570.0	597.2	619.9	638.1	644.1	642.6	645.6	650.2	639.6	642.6
10°	449.1	438.5	447.6	468.7	485.4	505.0	489.9	488.4	492.9	488.4	497.5
12.5°	375.0	362.9	355.3	355.3	367.4	376.5	372.0	379.5	396.1	400.7	411.3
15°	303.9	293.3	287.3	279.7	291.8	294.8	299.4	310.0	322.1	328.1	340.2
17.5°	243.4	243.4	243.4	237.4	241.9	246.5	248.0	261.6	263.1	269.1	273.7
20°	199.6	204.1	211.7	214.7	219.2	219.2	216.2	223.8	217.7	222.3	225.3
22.5°	179.9	186.0	189.0	190.5	196.6	198.1	190.5	192.0	193.5	189.0	190.5
25°	169.3	172.4	169.3	170.9	172.4	169.3	170.9	173.9	172.4	175.4	173.9
27.5°	164.8	161.8	160.3	158.8	158.8	155.7	157.2	157.2	160.3	161.8	161.8
30°	164.8	160.3	154.2	149.7	149.7	145.2	148.2	151.2	152.7	155.7	155.7
32.5°	169.3	160.3	149.7	145.2	140.6	137.6	140.6	145.2	151.2	152.7	154.2
35°	134.6	139.1	137.6	131.5	130.0	130.0	128.5	128.5	124.0	124.0	122.5
37.5°	121.0	119.4	122.5	124.0	125.5	121.0	121.0	114.9	113.4	114.9	114.9
40°	113.4	113.4	113.4	117.9	119.4	116.4	111.9	108.9	108.9	108.9	110.4
42.5°	110.4	107.4	105.8	108.9	113.4	110.4	105.8	104.3	104.3	105.8	105.8
45°	105.8	104.3	102.8	101.3	107.4	102.8	101.3	99.8	99.8	99.8	101.3
47.5°	101.3	99.8	96.8	96.8	98.3	96.8	95.3	95.3	95.3	98.3	98.3
50°	98.3	96.8	93.7	93.7	93.7	93.7	92.2	92.2	92.2	93.7	95.3
52.5°	93.7	92.2	90.7	89.2	89.2	89.2	89.2	89.2	89.2	90.7	92.2
55°	89.2	87.7	86.2	86.2	87.7	87.7	86.2	87.7	86.2	87.7	89.2
57.5°	84.7	83.2	81.6	83.2	84.7	83.2	83.2	83.2	83.2	83.2	84.7
60°	78.6	78.6	78.6	78.6	81.6	81.6	81.6	81.6	78.6	80.1	81.6
62.5°	75.6	74.1	74.1	75.6	77.1	77.1	78.6	77.1	75.6	77.1	77.1
65°	69.6	69.6	69.6	71.1	71.1	72.6	72.6	72.6	71.1	72.6	72.6
67.5°	65.0	65.0	65.0	65.0	68.0	68.0	68.0	68.0	66.5	66.5	68.0
70°	57.5	59.0	57.5	60.5	63.5	62.0	63.5	63.5	62.0	60.5	63.5
72.5°	52.9	52.9	52.9	52.9	57.5	57.5	57.5	59.0	57.5	55.9	57.5
75°	46.9	46.9	46.9	48.4	51.4	51.4	51.4	51.4	51.4	49.9	49.9
77.5°	40.8	42.3	40.8	42.3	45.4	43.8	45.4	46.9	45.4	43.8	43.8
80°	34.8	34.8	34.8	36.3	37.8	37.8	37.8	39.3	37.8	36.3	36.3
82.5°	27.2	27.2	28.7	28.7	30.2	30.2	30.2	31.8	30.2	28.7	28.7
85°	21.2	21.2	21.2	22.7	22.7	24.2	24.2	25.7	25.7	24.2	24.2
87.5°	13.6	12.1	13.6	13.6	15.1	15.1	13.6	12.1	13.6	12.1	10.6
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°	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6	1088.6
2.5°	993.4	1020.6	1040.3	1053.9	1073.5	1111.3	1126.4	1153.7	1161.2	1165.8
5°	854.3	883.0	925.3	955.6	990.4	1061.4	1115.9	1156.7	1174.8	1191.5
7.5°	669.8	707.6	751.5	790.8	848.2	935.9	1007.0	1091.7	1123.4	1140.1
10°	523.2	557.9	606.3	654.7	734.8	808.9	910.2	987.3	1031.2	1043.3
12.5°	441.5	482.3	539.8	598.8	648.7	733.3	836.1	948.0	988.9	996.4
15°	375.0	430.9	489.9	550.4	607.8	681.9	792.3	928.4	988.9	996.4
17.5°	310.0	359.9	429.4	494.4	561.0	662.3	799.9	945.0	1005.5	1028.2
20°	246.5	294.8	349.3	430.9	521.6	629.0	816.5	1000.9	1081.1	1105.3
22.5°	204.1	225.3	278.2	356.8	464.2	606.3	833.1	1088.6	1173.3	1182.4
25°	178.4	193.5	226.8	300.9	418.8	591.2	872.4	1189.9	1298.8	1298.8
27.5°	166.3	172.4	195.0	261.6	387.1	577.6	911.7	1301.8	1403.1	1424.3
30°	163.3	178.4	190.5	232.8	352.3	539.8	948.0	1389.5	1493.9	1495.4
32.5°	160.3	157.2	166.3	202.6	310.0	500.5	978.3	1478.7	1560.4	1564.9
35°	125.5	131.5	146.7	178.4	278.2	471.7	993.4	1527.1	1645.1	1649.6
37.5°	117.9	125.5	137.6	164.8	257.0	447.6	997.9	1620.9	1734.3	1743.3
40°	114.9	121.0	130.0	152.7	240.4	417.3	1007.0	1717.6	1865.8	1853.7
42.5°	108.9	116.4	125.5	146.7	226.8	394.6	1008.5	1770.6	1935.4	1935.4
45°	107.4	111.9	122.5	146.7	211.7	375.0	984.3	1823.5	2015.5	1991.3
47.5°	101.3	110.4	119.4	142.1	193.5	355.3	955.6	1850.7	2026.1	2018.5
50°	99.8	108.9	124.0	134.6	183.0	346.2	949.5	1918.7	2047.3	2045.7
52.5°	96.8	105.8	128.5	128.5	169.3	334.2	978.3	1949.0	2051.8	2063.9
55°	92.2	105.8	119.4	117.9	157.2	319.0	1010.0	2027.6	2131.9	2128.9
57.5°	89.2	102.8	113.4	107.4	143.6	308.4	1056.9	2103.2	2228.7	2207.5
60°	84.7	102.8	101.3	99.8	133.1	299.4	1096.2	2118.3	2249.9	2263.5
62.5°	81.6	107.4	89.2	92.2	124.0	294.8	1079.6	2004.9	2221.1	2233.2
65°	78.6	92.2	81.6	84.7	121.0	285.8	1014.6	1868.8	2097.2	2150.1
67.5°	72.6	75.6	75.6	78.6	117.9	264.6	881.5	1623.9	1908.2	1936.9
70°	66.5	68.0	68.0	72.6	114.9	240.4	727.3	1404.7	1655.6	1710.1
72.5°	60.5	60.5	60.5	66.5	105.8	220.8	598.8	1079.6	1375.9	1413.7
75°	52.9	52.9	52.9	59.0	95.3	201.1	471.7	802.9	1013.0	1067.5
77.5°	46.9	46.9	45.4	52.9	83.2	163.3	340.2	567.0	713.7	759.0
80°	39.3	37.8	37.8	42.3	65.0	117.9	219.2	400.7	497.5	517.1
82.5°	31.8	30.2	28.7	31.8	46.9	74.1	136.1	279.7	319.0	306.9
85°	30.2	31.8	25.7	24.2	33.3	48.4	86.2	172.4	143.6	143.6
87.5°	12.1	10.6	10.6	9.1	16.6	18.1	37.8	31.8	24.2	24.2
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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