

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: P675881

Luminaire Tested: **CCW-SA-2A-827-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675881
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

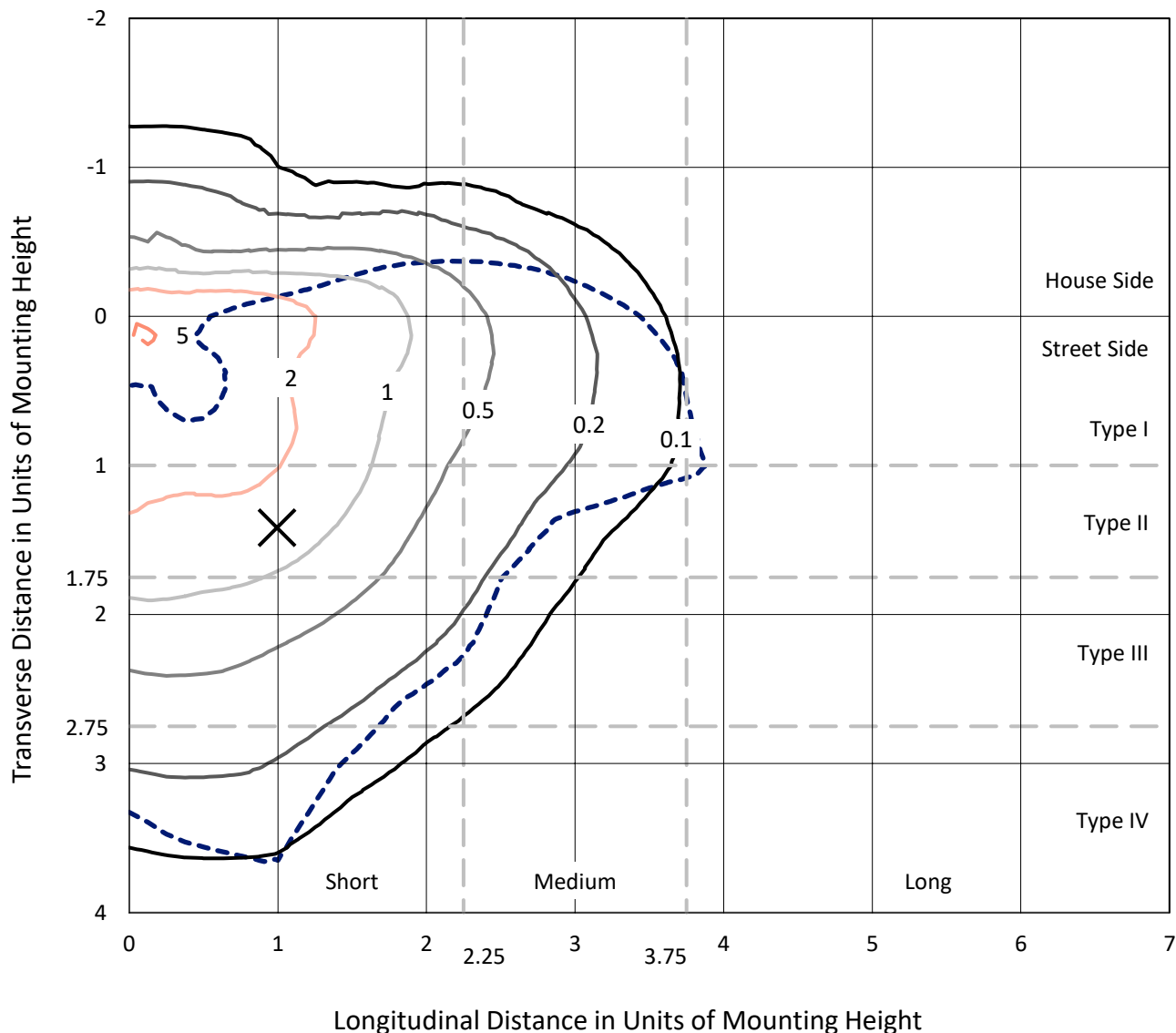
Lumens per Lamp: N/A
Luminaire Lumens: 3337.3 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

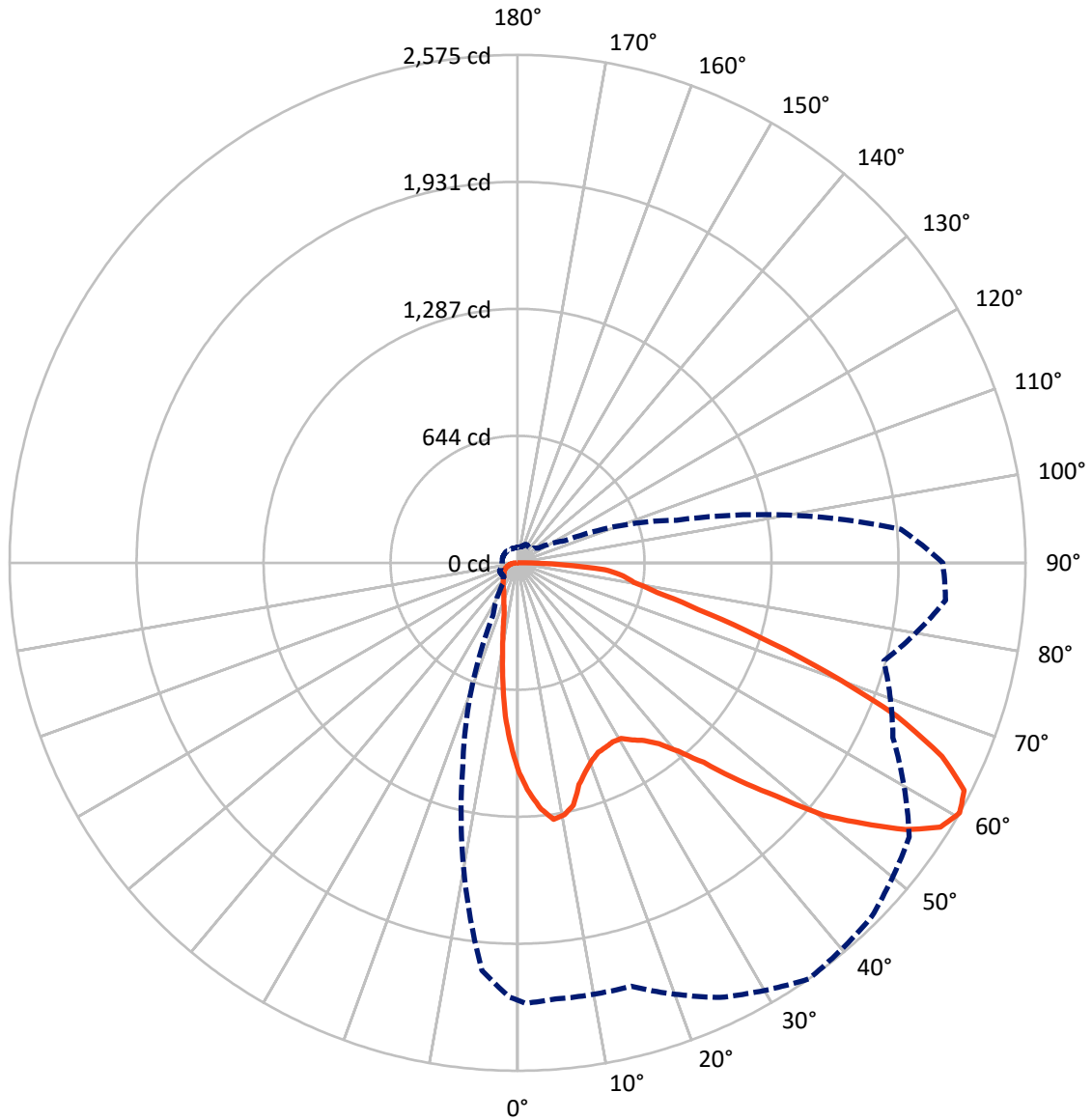
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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	635.1	0.0	635.1
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2702.2	0.0	2702.2
	% Fixture	81.0	0.0	81.0
Total	Lumens	3337.3	0.0	3337.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	2.5
10°-20°	174.8	5.2
20°-30°	255.8	7.7
30°-40°	360.4	10.8
40°-50°	495.3	14.8
50°-60°	675.0	20.2
60°-70°	738.8	22.1
70°-80°	426.5	12.8
80°-90°	127.7	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°	3337.3	100.0
0°-180°	3337.3	100.0

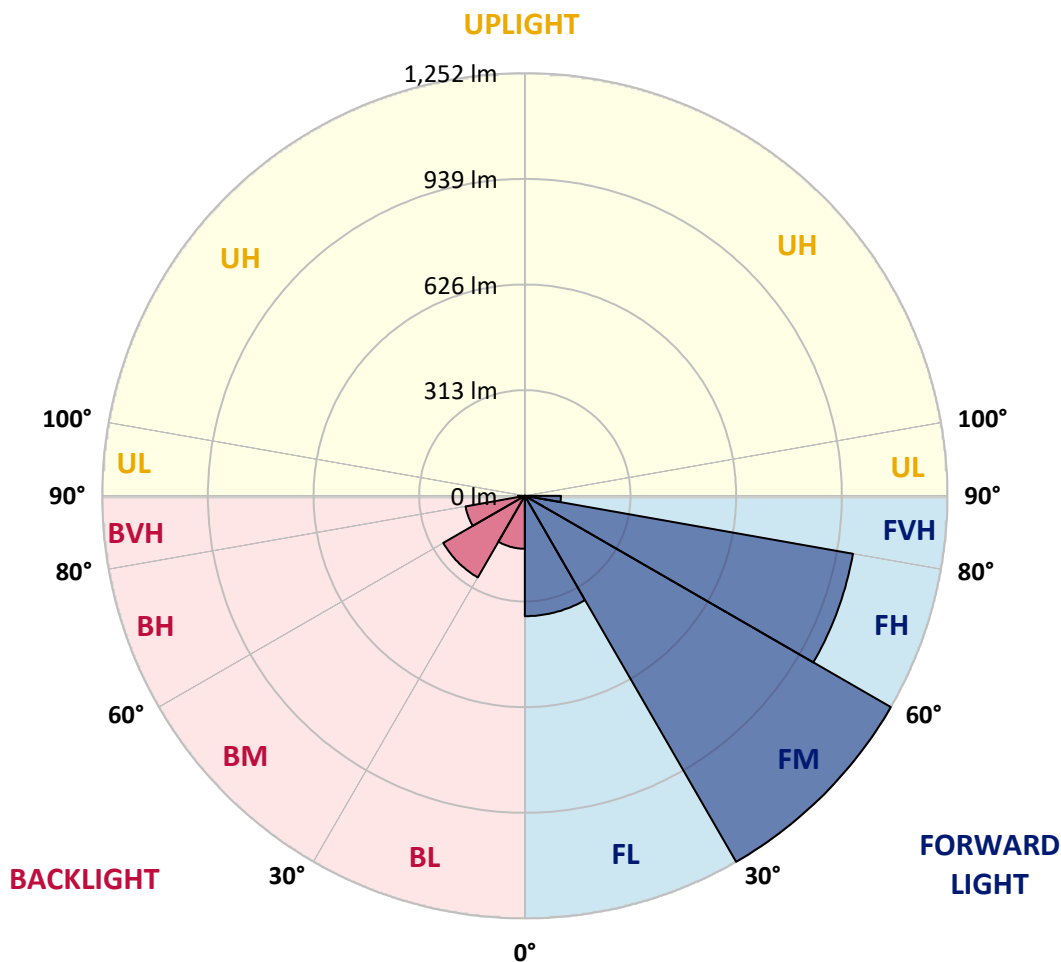


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.5	10.7			
FM	(30°-60°)	1251.8	37.5			
FH	(60°-80°)	987.0	29.6			G1/1800
FVH	(80°-90°)	106.9	3.2			G2/225
BL	(0°-30°)	156.9	4.7	B1/500		
BM	(30°-60°)	279.0	8.4	B1/1000		
BH	(60°-80°)	178.4	5.3	B1/500		G1/500
BVH	(80°-90°)	20.8	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°	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9
2.5°	1141.4	1137.0	1141.4	1157.7	1162.2	1169.6	1169.6	1159.2	1139.9	1131.1	1116.3
5°	1166.6	1159.2	1196.2	1230.3	1256.9	1253.9	1228.8	1208.0	1169.6	1111.8	1057.0
7.5°	1116.3	1123.7	1150.3	1239.1	1301.3	1313.2	1273.2	1231.7	1148.8	1068.9	994.9
10°	1021.5	1031.9	1089.6	1181.4	1279.1	1298.4	1273.2	1222.8	1123.7	1024.5	938.6
12.5°	975.6	999.3	1033.4	1144.4	1214.0	1259.9	1248.0	1215.4	1104.4	987.5	904.6
15°	975.6	981.5	1031.9	1125.1	1165.1	1166.6	1171.0	1177.0	1110.3	1003.7	892.7
17.5°	1006.7	1023.0	1065.9	1123.7	1131.1	1113.3	1113.3	1138.5	1122.2	1049.6	935.6
20°	1082.2	1076.3	1132.5	1156.2	1116.3	1071.8	1067.4	1110.3	1135.5	1098.5	1014.1
22.5°	1157.7	1184.4	1230.3	1177.0	1102.9	1043.7	1037.8	1091.1	1175.5	1182.9	1104.4
25°	1271.7	1298.4	1322.0	1256.9	1101.5	1036.3	1040.8	1082.2	1224.3	1302.8	1255.4
27.5°	1394.6	1410.9	1444.9	1344.2	1137.0	1027.4	1031.9	1094.1	1270.2	1381.3	1373.9
30°	1464.2	1481.9	1474.5	1360.5	1160.7	1033.4	1021.5	1110.3	1245.1	1381.3	1450.8
32.5°	1532.3	1521.9	1517.5	1387.2	1190.3	1070.4	1040.8	1144.4	1259.9	1403.5	1550.0
35°	1615.2	1600.4	1588.5	1439.0	1239.1	1105.9	1092.6	1188.8	1292.4	1449.4	1630.0
37.5°	1707.0	1707.0	1649.2	1477.5	1296.9	1163.6	1148.8	1252.5	1344.2	1477.5	1739.5
40°	1815.0	1819.5	1717.3	1529.3	1362.0	1255.4	1251.0	1335.4	1394.6	1518.9	1844.6
42.5°	1895.0	1897.9	1776.5	1548.5	1437.5	1382.7	1402.0	1468.6	1452.3	1555.9	1852.0
45°	1949.7	1934.9	1818.0	1603.3	1520.4	1573.7	1579.6	1598.9	1527.8	1578.2	1881.6
47.5°	1976.4	1973.4	1835.8	1667.0	1695.1	1767.7	1801.7	1775.1	1597.4	1554.5	1881.6
50°	2003.0	1977.9	1852.0	1754.3	1865.4	2011.9	2004.5	1955.7	1693.6	1584.1	1853.5
52.5°	2020.8	1998.6	1884.6	1832.8	2028.2	2194.0	2223.6	2133.3	1806.1	1638.9	1866.8
55°	2084.5	2066.7	1982.3	1939.4	2216.2	2386.5	2390.9	2265.1	1924.6	1729.2	1954.2
57.5°	2161.5	2171.8	2117.0	2090.4	2359.8	2527.1	2510.8	2362.8	2025.3	1838.7	2054.9
60°	2216.2	2232.5	2219.2	2222.2	2430.9	2574.5	2537.5	2423.5	2099.3	1921.6	2177.7
62.5°	2186.6	2219.2	2274.0	2262.1	2433.9	2540.4	2488.6	2343.5	2108.2	2029.7	2271.0
65°	2105.2	2108.2	2214.7	2279.9	2300.6	2364.3	2296.2	2176.3	2016.4	2096.3	2257.7
67.5°	1896.5	1920.1	2016.4	2143.7	2056.3	2071.1	2065.2	1892.0	1877.2	2050.4	2155.5
70°	1674.4	1690.7	1795.8	1945.3	1736.6	1667.0	1680.3	1551.5	1612.2	1908.3	1949.7
72.5°	1384.2	1394.6	1514.5	1646.3	1393.1	1268.7	1299.8	1194.7	1280.6	1669.9	1644.8
75°	1045.2	1064.4	1157.7	1313.2	1025.9	946.0	977.1	934.2	1014.1	1375.3	1276.1
77.5°	743.2	728.4	843.9	1027.4	771.3	723.9	726.9	734.3	820.2	1159.2	916.4
80°	506.3	510.8	614.4	753.5	605.5	598.1	590.7	649.9	688.4	917.9	666.2
82.5°	300.5	300.5	414.5	535.9	478.2	538.9	504.8	558.1	538.9	675.1	436.7
85°	140.6	140.6	213.2	386.4	370.1	444.1	377.5	421.9	398.2	470.8	196.9
87.5°	23.7	20.7	42.9	189.5	152.5	173.2	68.1	225.0	250.2	328.7	48.9
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°	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9
2.5°	1100.0	1089.6	1068.9	1042.2	1020.0	991.9	983.0	963.8	937.1	934.2	922.3
5°	1036.3	1000.8	956.4	901.6	864.6	826.1	793.5	774.3	752.1	749.1	743.2
7.5°	966.7	922.3	848.3	783.2	719.5	658.8	629.2	592.2	567.0	547.8	538.9
10°	901.6	860.1	768.4	679.5	623.3	583.3	547.8	509.3	478.2	454.5	445.6
12.5°	858.7	809.8	710.6	626.2	584.8	538.9	498.9	457.5	417.5	386.4	370.1
15°	839.4	793.5	692.8	599.6	538.9	475.2	429.3	387.9	339.0	316.8	309.4
17.5°	885.3	817.2	686.9	568.5	482.6	410.1	353.8	309.4	273.9	251.7	242.8
20°	944.5	860.1	697.3	531.5	429.3	347.9	285.7	238.4	214.7	198.4	196.9
22.5°	1020.0	923.8	713.6	504.8	370.1	279.8	223.5	195.4	179.1	177.7	174.7
25°	1154.7	1039.3	740.2	469.3	322.7	230.9	191.0	174.7	167.3	162.8	165.8
27.5°	1270.2	1114.8	759.5	447.1	303.5	217.6	185.1	167.3	159.9	158.4	159.9
30°	1338.3	1184.4	753.5	405.6	265.0	207.3	196.9	191.0	176.2	164.3	164.3
32.5°	1400.5	1228.8	752.1	368.6	226.5	173.2	164.3	159.9	168.8	174.7	170.3
35°	1486.4	1298.4	747.6	347.9	210.2	159.9	145.1	133.2	127.3	124.4	128.8
37.5°	1578.2	1345.7	735.8	344.9	201.3	152.5	140.6	128.8	122.9	119.9	118.4
40°	1678.8	1396.1	722.5	330.1	196.9	148.0	136.2	125.8	118.4	114.0	112.5
42.5°	1744.0	1436.0	709.1	322.7	188.0	145.1	131.8	122.9	115.5	109.6	109.6
45°	1781.0	1483.4	695.8	315.3	177.7	146.6	131.8	119.9	111.0	108.1	105.1
47.5°	1797.3	1518.9	691.4	303.5	168.8	140.6	128.8	117.0	108.1	102.2	100.7
50°	1840.2	1594.4	707.7	294.6	158.4	134.7	136.2	115.5	106.6	99.2	97.7
52.5°	1865.4	1655.1	743.2	281.3	151.0	127.3	133.2	112.5	102.2	94.7	94.7
55°	1957.2	1755.8	781.7	270.9	142.1	117.0	122.9	106.6	94.7	90.3	90.3
57.5°	2074.1	1862.4	814.2	266.5	136.2	109.6	109.6	103.6	90.3	84.4	82.9
60°	2155.5	1949.7	833.5	263.5	130.3	102.2	97.7	103.6	85.9	79.9	78.5
62.5°	2164.4	1899.4	814.2	262.0	128.8	94.7	88.8	99.2	81.4	75.5	72.5
65°	2108.2	1797.3	760.9	256.1	127.3	87.3	82.9	85.9	75.5	71.1	68.1
67.5°	1995.6	1631.5	684.0	253.2	125.8	81.4	75.5	74.0	69.6	65.1	62.2
70°	1733.6	1415.3	593.7	239.8	122.9	77.0	68.1	66.6	62.2	59.2	57.7
72.5°	1455.3	1157.7	490.0	222.1	117.0	69.6	62.2	59.2	57.7	53.3	51.8
75°	1114.8	891.2	392.3	196.9	102.2	62.2	54.8	51.8	50.3	47.4	45.9
77.5°	783.2	663.2	290.2	159.9	85.9	56.3	48.9	45.9	44.4	40.0	40.0
80°	531.5	464.9	196.9	111.0	66.6	45.9	42.9	40.0	37.0	34.1	34.1
82.5°	330.1	325.7	142.1	72.5	48.9	37.0	34.1	34.1	29.6	26.6	26.6
85°	151.0	199.9	99.2	50.3	37.0	28.1	28.1	26.6	23.7	19.2	19.2
87.5°	47.4	66.6	51.8	22.2	20.7	16.3	16.3	14.8	14.8	11.8	11.8
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°	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9
2.5°	934.2	932.7	932.7	926.8	941.6	941.6	950.4	943.0	947.5	949.0	960.8
5°	741.7	753.5	762.4	780.2	790.6	795.0	795.0	806.8	802.4	811.3	829.1
7.5°	543.3	558.1	584.8	607.0	624.7	630.7	629.2	632.2	636.6	626.2	629.2
10°	439.7	429.3	438.2	458.9	475.2	494.5	479.7	478.2	482.6	478.2	487.1
12.5°	367.2	355.3	347.9	347.9	359.7	368.6	364.2	371.6	387.9	392.3	402.7
15°	297.6	287.2	281.3	273.9	285.7	288.7	293.1	303.5	315.3	321.3	333.1
17.5°	238.4	238.4	238.4	232.4	236.9	241.3	242.8	256.1	257.6	263.5	268.0
20°	195.4	199.9	207.3	210.2	214.7	214.7	211.7	219.1	213.2	217.6	220.6
22.5°	176.2	182.1	185.1	186.5	192.5	193.9	186.5	188.0	189.5	185.1	186.5
25°	165.8	168.8	165.8	167.3	168.8	165.8	167.3	170.3	168.8	171.7	170.3
27.5°	161.4	158.4	156.9	155.4	155.4	152.5	154.0	154.0	156.9	158.4	158.4
30°	161.4	156.9	151.0	146.6	146.6	142.1	145.1	148.0	149.5	152.5	152.5
32.5°	165.8	156.9	146.6	142.1	137.7	134.7	137.7	142.1	148.0	149.5	151.0
35°	131.8	136.2	134.7	128.8	127.3	127.3	125.8	125.8	121.4	121.4	119.9
37.5°	118.4	117.0	119.9	121.4	122.9	118.4	118.4	112.5	111.0	112.5	112.5
40°	111.0	111.0	111.0	115.5	117.0	114.0	109.6	106.6	106.6	106.6	108.1
42.5°	108.1	105.1	103.6	106.6	111.0	108.1	103.6	102.2	102.2	103.6	103.6
45°	103.6	102.2	100.7	99.2	105.1	100.7	99.2	97.7	97.7	97.7	99.2
47.5°	99.2	97.7	94.7	94.7	96.2	94.7	93.3	93.3	93.3	96.2	96.2
50°	96.2	94.7	91.8	91.8	91.8	91.8	90.3	90.3	90.3	91.8	93.3
52.5°	91.8	90.3	88.8	87.3	87.3	87.3	87.3	87.3	87.3	88.8	90.3
55°	87.3	85.9	84.4	84.4	85.9	85.9	84.4	85.9	84.4	85.9	87.3
57.5°	82.9	81.4	79.9	81.4	82.9	81.4	81.4	81.4	81.4	81.4	82.9
60°	77.0	77.0	77.0	77.0	79.9	79.9	79.9	79.9	77.0	78.5	79.9
62.5°	74.0	72.5	72.5	74.0	75.5	75.5	77.0	75.5	74.0	75.5	75.5
65°	68.1	68.1	68.1	69.6	69.6	71.1	71.1	71.1	69.6	71.1	71.1
67.5°	63.7	63.7	63.7	63.7	66.6	66.6	66.6	66.6	65.1	65.1	66.6
70°	56.3	57.7	56.3	59.2	62.2	60.7	62.2	62.2	60.7	59.2	62.2
72.5°	51.8	51.8	51.8	51.8	56.3	56.3	56.3	57.7	56.3	54.8	56.3
75°	45.9	45.9	45.9	47.4	50.3	50.3	50.3	50.3	50.3	48.9	48.9
77.5°	40.0	41.5	40.0	41.5	44.4	42.9	44.4	45.9	44.4	42.9	42.9
80°	34.1	34.1	34.1	35.5	37.0	37.0	37.0	38.5	37.0	35.5	35.5
82.5°	26.6	26.6	28.1	28.1	29.6	29.6	29.6	31.1	29.6	28.1	28.1
85°	20.7	20.7	20.7	22.2	22.2	23.7	23.7	25.2	25.2	23.7	23.7
87.5°	13.3	11.8	13.3	13.3	14.8	14.8	13.3	11.8	13.3	11.8	10.4
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°	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9	1065.9
2.5°	972.7	999.3	1018.5	1031.9	1051.1	1088.1	1102.9	1129.6	1137.0	1141.4
5°	836.5	864.6	906.0	935.6	969.7	1039.3	1092.6	1132.5	1150.3	1166.6
7.5°	655.8	692.8	735.8	774.3	830.5	916.4	986.0	1068.9	1100.0	1116.3
10°	512.2	546.3	593.7	641.0	719.5	792.0	891.2	966.7	1009.7	1021.5
12.5°	432.3	472.3	528.5	586.3	635.1	718.0	818.7	928.2	968.2	975.6
15°	367.2	421.9	479.7	538.9	595.1	667.7	775.8	909.0	968.2	975.6
17.5°	303.5	352.3	420.4	484.1	549.2	648.4	783.2	925.3	984.5	1006.7
20°	241.3	288.7	342.0	421.9	510.8	615.9	799.4	980.1	1058.5	1082.2
22.5°	199.9	220.6	272.4	349.4	454.5	593.7	815.7	1065.9	1148.8	1157.7
25°	174.7	189.5	222.1	294.6	410.1	578.9	854.2	1165.1	1271.7	1271.7
27.5°	162.8	168.8	191.0	256.1	379.0	565.5	892.7	1274.7	1373.9	1394.6
30°	159.9	174.7	186.5	228.0	344.9	528.5	928.2	1360.5	1462.7	1464.2
32.5°	156.9	154.0	162.8	198.4	303.5	490.0	957.8	1447.9	1527.8	1532.3
35°	122.9	128.8	143.6	174.7	272.4	461.9	972.7	1495.3	1610.7	1615.2
37.5°	115.5	122.9	134.7	161.4	251.7	438.2	977.1	1587.0	1698.1	1707.0
40°	112.5	118.4	127.3	149.5	235.4	408.6	986.0	1681.8	1826.9	1815.0
42.5°	106.6	114.0	122.9	143.6	222.1	386.4	987.5	1733.6	1895.0	1895.0
45°	105.1	109.6	119.9	143.6	207.3	367.2	963.8	1785.4	1973.4	1949.7
47.5°	99.2	108.1	117.0	139.2	189.5	347.9	935.6	1812.1	1983.8	1976.4
50°	97.7	106.6	121.4	131.8	179.1	339.0	929.7	1878.7	2004.5	2003.0
52.5°	94.7	103.6	125.8	125.8	165.8	327.2	957.8	1908.3	2009.0	2020.8
55°	90.3	103.6	117.0	115.5	154.0	312.4	988.9	1985.3	2087.4	2084.5
57.5°	87.3	100.7	111.0	105.1	140.6	302.0	1034.8	2059.3	2182.2	2161.5
60°	82.9	100.7	99.2	97.7	130.3	293.1	1073.3	2074.1	2202.9	2216.2
62.5°	79.9	105.1	87.3	90.3	121.4	288.7	1057.0	1963.1	2174.8	2186.6
65°	77.0	90.3	79.9	82.9	118.4	279.8	993.4	1829.8	2053.4	2105.2
67.5°	71.1	74.0	74.0	77.0	115.5	259.1	863.1	1590.0	1868.3	1896.5
70°	65.1	66.6	66.6	71.1	112.5	235.4	712.1	1375.3	1621.1	1674.4
72.5°	59.2	59.2	59.2	65.1	103.6	216.1	586.3	1057.0	1347.2	1384.2
75°	51.8	51.8	51.8	57.7	93.3	196.9	461.9	786.1	991.9	1045.2
77.5°	45.9	45.9	44.4	51.8	81.4	159.9	333.1	555.2	698.8	743.2
80°	38.5	37.0	37.0	41.5	63.7	115.5	214.7	392.3	487.1	506.3
82.5°	31.1	29.6	28.1	31.1	45.9	72.5	133.2	273.9	312.4	300.5
85°	29.6	31.1	25.2	23.7	32.6	47.4	84.4	168.8	140.6	140.6
87.5°	11.8	10.4	10.4	8.9	16.3	17.8	37.0	31.1	23.7	23.7
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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