

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: P675888

Luminaire Tested: **CCW-SA-1C-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675888
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

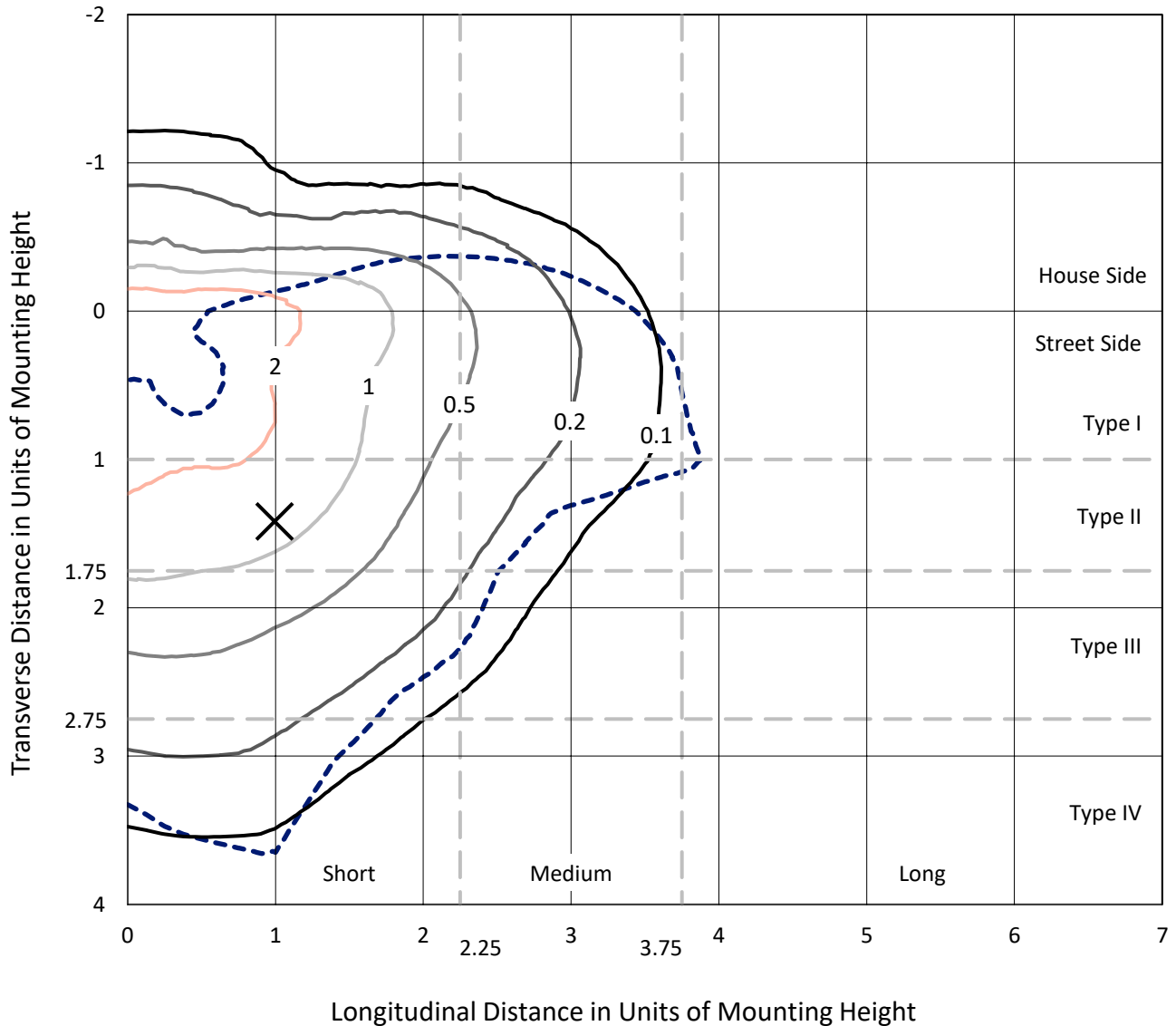
Lumens per Lamp: N/A
Luminaire Lumens: 2980.9 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

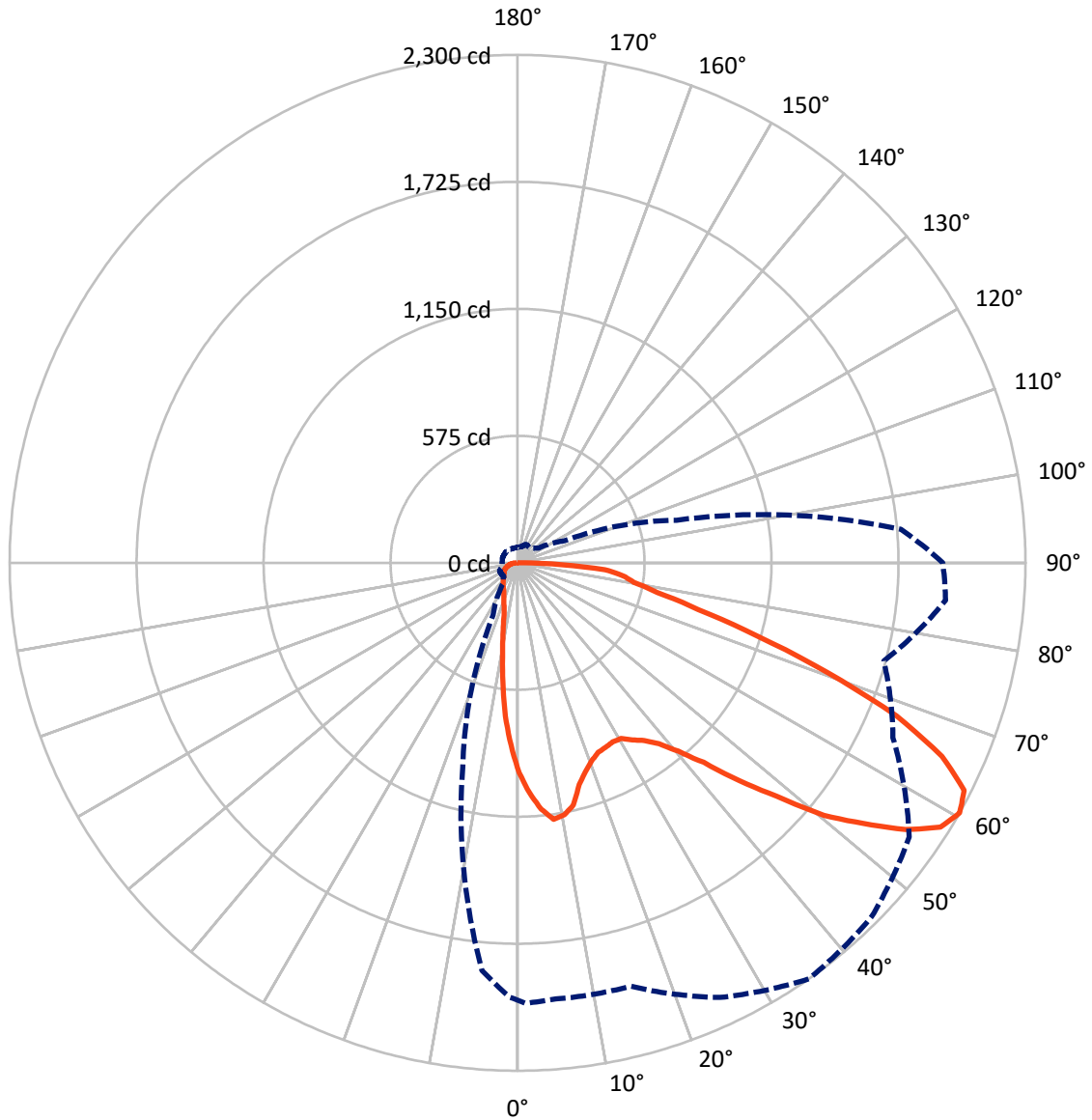
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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	567.3	0.0	567.3
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2413.6	0.0	2413.6
	% Fixture	81.0	0.0	81.0
Total	Lumens	2980.9	0.0	2980.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	2.5
10°-20°	156.2	5.2
20°-30°	228.5	7.7
30°-40°	321.9	10.8
40°-50°	442.4	14.8
50°-60°	603.0	20.2
60°-70°	659.9	22.1
70°-80°	381.0	12.8
80°-90°	114.1	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°	2980.9	100.0
0°-180°	2980.9	100.0

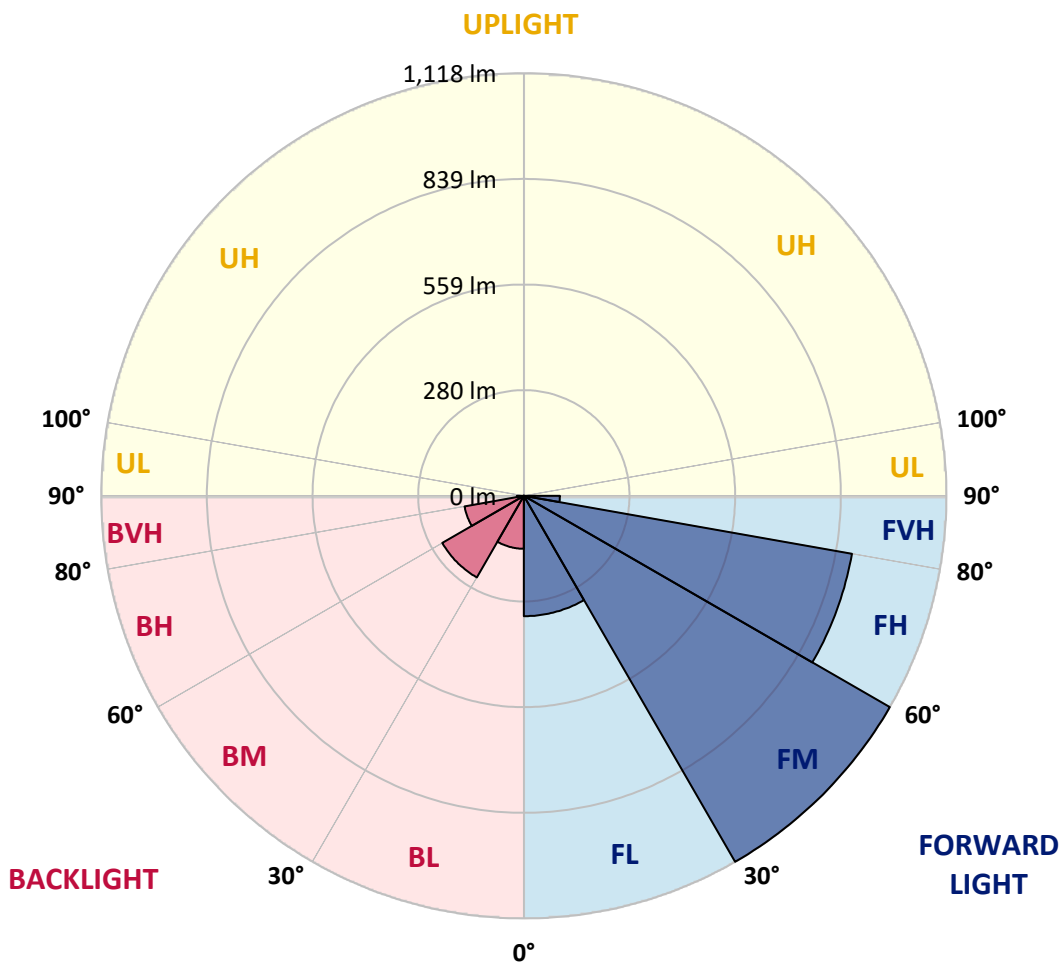


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.4	10.7			
FM (30°-60°)	1118.1	37.5			
FH (60°-80°)	881.6	29.6			G1/1800
FVH (80°-90°)	95.5	3.2			G1/100
BL (0°-30°)	140.2	4.7	B1/500		
BM (30°-60°)	249.2	8.4	B1/1000		
BH (60°-80°)	159.3	5.3	B1/500		G1/500
BVH (80°-90°)	18.6	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1
2.5°	1019.5	1015.5	1019.5	1034.1	1038.0	1044.6	1044.6	1035.4	1018.2	1010.3	997.0
5°	1042.0	1035.4	1068.4	1098.9	1122.7	1120.0	1097.5	1079.0	1044.6	993.1	944.1
7.5°	997.0	1003.6	1027.4	1106.8	1162.3	1172.9	1137.2	1100.2	1026.1	954.7	888.6
10°	912.4	921.7	973.2	1055.2	1142.5	1159.7	1137.2	1092.2	1003.6	915.0	838.4
12.5°	871.4	892.6	923.0	1022.2	1084.3	1125.3	1114.7	1085.6	986.5	882.0	807.9
15°	871.4	876.7	921.7	1005.0	1040.7	1042.0	1046.0	1051.2	991.7	896.5	797.4
17.5°	899.2	913.7	952.1	1003.6	1010.3	994.4	994.4	1016.9	1002.3	937.5	835.7
20°	966.6	961.3	1011.6	1032.7	997.0	957.4	953.4	991.7	1014.2	981.2	905.8
22.5°	1034.1	1057.9	1098.9	1051.2	985.1	932.2	926.9	974.6	1049.9	1056.5	986.5
25°	1135.9	1159.7	1180.8	1122.7	983.8	925.6	929.6	966.6	1093.6	1163.6	1121.3
27.5°	1245.6	1260.2	1290.6	1200.7	1015.5	917.7	921.7	977.2	1134.6	1233.7	1227.1
30°	1307.8	1323.6	1317.0	1215.2	1036.7	923.0	912.4	991.7	1112.1	1233.7	1295.9
32.5°	1368.6	1359.3	1355.4	1239.0	1063.1	956.0	929.6	1022.2	1125.3	1253.6	1384.5
35°	1442.7	1429.4	1418.9	1285.3	1106.8	987.8	975.9	1061.8	1154.4	1294.6	1455.9
37.5°	1524.6	1524.6	1473.1	1319.7	1158.4	1039.3	1026.1	1118.7	1200.7	1319.7	1553.7
40°	1621.2	1625.1	1533.9	1366.0	1216.5	1121.3	1117.4	1192.7	1245.6	1356.7	1647.6
42.5°	1692.6	1695.2	1586.8	1383.2	1284.0	1235.1	1252.2	1311.7	1297.2	1389.8	1654.2
45°	1741.5	1728.3	1623.8	1432.1	1358.0	1405.6	1410.9	1428.1	1364.6	1409.6	1680.7
47.5°	1765.3	1762.7	1639.7	1488.9	1514.1	1578.9	1609.3	1585.5	1426.8	1388.4	1680.7
50°	1789.1	1766.6	1654.2	1567.0	1666.1	1797.0	1790.4	1746.8	1512.7	1414.9	1655.5
52.5°	1805.0	1785.1	1683.3	1637.0	1811.6	1959.7	1986.1	1905.5	1613.2	1463.8	1667.5
55°	1861.8	1846.0	1770.6	1732.2	1979.5	2131.6	2135.6	2023.2	1719.0	1544.5	1745.5
57.5°	1930.6	1939.8	1890.9	1867.1	2107.8	2257.2	2242.7	2110.4	1808.9	1642.3	1835.4
60°	1979.5	1994.1	1982.2	1984.8	2171.3	2299.5	2266.5	2164.6	1875.1	1716.4	1945.1
62.5°	1953.1	1982.2	2031.1	2020.5	2173.9	2269.1	2222.8	2093.2	1883.0	1812.9	2028.4
65°	1880.3	1883.0	1978.2	2036.4	2054.9	2111.8	2050.9	1943.8	1801.0	1872.4	2016.5
67.5°	1693.9	1715.1	1801.0	1914.7	1836.7	1849.9	1844.6	1689.9	1676.7	1831.4	1925.3
70°	1495.5	1510.1	1604.0	1737.5	1551.1	1488.9	1500.8	1385.8	1440.0	1704.5	1741.5
72.5°	1236.4	1245.6	1352.7	1470.4	1244.3	1133.2	1161.0	1067.1	1143.8	1491.6	1469.1
75°	933.6	950.8	1034.1	1172.9	916.4	845.0	872.7	834.4	905.8	1228.4	1139.8
77.5°	663.8	650.6	753.7	917.7	688.9	646.6	649.3	655.9	732.6	1035.4	818.5
80°	452.2	456.2	548.8	673.1	540.8	534.2	527.6	580.5	614.9	819.8	595.0
82.5°	268.4	268.4	370.3	478.7	427.1	481.3	450.9	498.5	481.3	603.0	390.1
85°	125.6	125.6	190.4	345.1	330.6	396.7	337.2	376.9	355.7	420.5	175.9
87.5°	21.2	18.5	38.3	169.3	136.2	154.7	60.8	201.0	223.5	293.6	43.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1
2.5°	982.5	973.2	954.7	930.9	911.1	886.0	878.0	860.8	837.0	834.4	823.8
5°	925.6	893.9	854.2	805.3	772.2	737.9	708.8	691.6	671.7	669.1	663.8
7.5°	863.5	823.8	757.7	699.5	642.6	588.4	562.0	528.9	506.5	489.3	481.3
10°	805.3	768.3	686.3	606.9	556.7	521.0	489.3	454.9	427.1	406.0	398.0
12.5°	766.9	723.3	634.7	559.3	522.3	481.3	445.6	408.6	372.9	345.1	330.6
15°	749.8	708.8	618.8	535.5	481.3	424.5	383.5	346.4	302.8	283.0	276.4
17.5°	790.7	729.9	613.6	507.8	431.1	366.3	316.0	276.4	244.6	224.8	216.9
20°	843.6	768.3	622.8	474.7	383.5	310.7	255.2	212.9	191.7	177.2	175.9
22.5°	911.1	825.1	637.4	450.9	330.6	249.9	199.7	174.5	160.0	158.7	156.0
25°	1031.4	928.3	661.2	419.2	288.3	206.3	170.6	156.0	149.4	145.5	148.1
27.5°	1134.6	995.7	678.4	399.3	271.1	194.4	165.3	149.4	142.8	141.5	142.8
30°	1195.4	1057.9	673.1	362.3	236.7	185.1	175.9	170.6	157.4	146.8	146.8
32.5°	1250.9	1097.5	671.7	329.3	202.3	154.7	146.8	142.8	150.7	156.0	152.1
35°	1327.6	1159.7	667.8	310.7	187.8	142.8	129.6	119.0	113.7	111.1	115.0
37.5°	1409.6	1202.0	657.2	308.1	179.8	136.2	125.6	115.0	109.8	107.1	105.8
40°	1499.5	1247.0	645.3	294.9	175.9	132.2	121.7	112.4	105.8	101.8	100.5
42.5°	1557.7	1282.7	633.4	288.3	167.9	129.6	117.7	109.8	103.1	97.9	97.9
45°	1590.8	1325.0	621.5	281.7	158.7	130.9	117.7	107.1	99.2	96.5	93.9
47.5°	1605.3	1356.7	617.5	271.1	150.7	125.6	115.0	104.5	96.5	91.2	89.9
50°	1643.6	1424.1	632.1	263.1	141.5	120.3	121.7	103.1	95.2	88.6	87.3
52.5°	1666.1	1478.4	663.8	251.2	134.9	113.7	119.0	100.5	91.2	84.6	84.6
55°	1748.1	1568.3	698.2	242.0	126.9	104.5	109.8	95.2	84.6	80.7	80.7
57.5°	1852.6	1663.5	727.3	238.0	121.7	97.9	97.9	92.6	80.7	75.4	74.1
60°	1925.3	1741.5	744.5	235.4	116.4	91.2	87.3	92.6	76.7	71.4	70.1
62.5°	1933.2	1696.5	727.3	234.1	115.0	84.6	79.3	88.6	72.7	67.4	64.8
65°	1883.0	1605.3	679.7	228.8	113.7	78.0	74.1	76.7	67.4	63.5	60.8
67.5°	1782.5	1457.2	610.9	226.1	112.4	72.7	67.4	66.1	62.1	58.2	55.5
70°	1548.4	1264.1	530.3	214.2	109.8	68.8	60.8	59.5	55.5	52.9	51.6
72.5°	1299.8	1034.1	437.7	198.3	104.5	62.1	55.5	52.9	51.6	47.6	46.3
75°	995.7	796.0	350.4	175.9	91.2	55.5	48.9	46.3	45.0	42.3	41.0
77.5°	699.5	592.4	259.2	142.8	76.7	50.2	43.6	41.0	39.7	35.7	35.7
80°	474.7	415.2	175.9	99.2	59.5	41.0	38.3	35.7	33.1	30.4	30.4
82.5°	294.9	290.9	126.9	64.8	43.6	33.1	30.4	30.4	26.4	23.8	23.8
85°	134.9	178.5	88.6	45.0	33.1	25.1	25.1	23.8	21.2	17.2	17.2
87.5°	42.3	59.5	46.3	19.8	18.5	14.5	14.5	13.2	13.2	10.6	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1
2.5°	834.4	833.1	833.1	827.8	841.0	841.0	848.9	842.3	846.3	847.6	858.2
5°	662.5	673.1	681.0	696.9	706.1	710.1	710.1	720.7	716.7	724.6	740.5
7.5°	485.3	498.5	522.3	542.2	558.0	563.3	562.0	564.6	568.6	559.3	562.0
10°	392.7	383.5	391.4	409.9	424.5	441.7	428.4	427.1	431.1	427.1	435.0
12.5°	327.9	317.4	310.7	310.7	321.3	329.3	325.3	331.9	346.4	350.4	359.7
15°	265.8	256.5	251.2	244.6	255.2	257.9	261.8	271.1	281.7	286.9	297.5
17.5°	212.9	212.9	212.9	207.6	211.6	215.5	216.9	228.8	230.1	235.4	239.3
20°	174.5	178.5	185.1	187.8	191.7	191.7	189.1	195.7	190.4	194.4	197.0
22.5°	157.4	162.6	165.3	166.6	171.9	173.2	166.6	167.9	169.3	165.3	166.6
25°	148.1	150.7	148.1	149.4	150.7	148.1	149.4	152.1	150.7	153.4	152.1
27.5°	144.1	141.5	140.2	138.8	138.8	136.2	137.5	137.5	140.2	141.5	141.5
30°	144.1	140.2	134.9	130.9	130.9	126.9	129.6	132.2	133.6	136.2	136.2
32.5°	148.1	140.2	130.9	126.9	123.0	120.3	123.0	126.9	132.2	133.6	134.9
35°	117.7	121.7	120.3	115.0	113.7	113.7	112.4	112.4	108.4	108.4	107.1
37.5°	105.8	104.5	107.1	108.4	109.8	105.8	105.8	100.5	99.2	100.5	100.5
40°	99.2	99.2	99.2	103.1	104.5	101.8	97.9	95.2	95.2	95.2	96.5
42.5°	96.5	93.9	92.6	95.2	99.2	96.5	92.6	91.2	91.2	92.6	92.6
45°	92.6	91.2	89.9	88.6	93.9	89.9	88.6	87.3	87.3	87.3	88.6
47.5°	88.6	87.3	84.6	84.6	86.0	84.6	83.3	83.3	83.3	86.0	86.0
50°	86.0	84.6	82.0	82.0	82.0	82.0	80.7	80.7	80.7	82.0	83.3
52.5°	82.0	80.7	79.3	78.0	78.0	78.0	78.0	78.0	78.0	79.3	80.7
55°	78.0	76.7	75.4	75.4	76.7	76.7	75.4	76.7	75.4	76.7	78.0
57.5°	74.1	72.7	71.4	72.7	74.1	72.7	72.7	72.7	72.7	72.7	74.1
60°	68.8	68.8	68.8	68.8	71.4	71.4	71.4	71.4	68.8	70.1	71.4
62.5°	66.1	64.8	64.8	66.1	67.4	67.4	68.8	67.4	66.1	67.4	67.4
65°	60.8	60.8	60.8	62.1	62.1	63.5	63.5	63.5	62.1	63.5	63.5
67.5°	56.9	56.9	56.9	56.9	59.5	59.5	59.5	59.5	58.2	58.2	59.5
70°	50.2	51.6	50.2	52.9	55.5	54.2	55.5	55.5	54.2	52.9	55.5
72.5°	46.3	46.3	46.3	46.3	50.2	50.2	50.2	51.6	50.2	48.9	50.2
75°	41.0	41.0	41.0	42.3	45.0	45.0	45.0	45.0	45.0	43.6	43.6
77.5°	35.7	37.0	35.7	37.0	39.7	38.3	39.7	41.0	39.7	38.3	38.3
80°	30.4	30.4	30.4	31.7	33.1	33.1	33.1	34.4	33.1	31.7	31.7
82.5°	23.8	23.8	25.1	25.1	26.4	26.4	26.4	27.8	26.4	25.1	25.1
85°	18.5	18.5	18.5	19.8	19.8	21.2	21.2	22.5	22.5	21.2	21.2
87.5°	11.9	10.6	11.9	11.9	13.2	13.2	11.9	10.6	11.9	10.6	9.3
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°	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1	952.1
2.5°	868.8	892.6	909.8	921.7	938.9	971.9	985.1	1008.9	1015.5	1019.5
5°	747.1	772.2	809.3	835.7	866.1	928.3	975.9	1011.6	1027.4	1042.0
7.5°	585.8	618.8	657.2	691.6	741.8	818.5	880.7	954.7	982.5	997.0
10°	457.5	487.9	530.3	572.6	642.6	707.4	796.0	863.5	901.8	912.4
12.5°	386.1	421.8	472.1	523.6	567.3	641.3	731.2	829.1	864.8	871.4
15°	327.9	376.9	428.4	481.3	531.6	596.4	692.9	811.9	864.8	871.4
17.5°	271.1	314.7	375.5	432.4	490.6	579.2	699.5	826.5	879.3	899.2
20°	215.5	257.9	305.5	376.9	456.2	550.1	714.1	875.4	945.5	966.6
22.5°	178.5	197.0	243.3	312.1	406.0	530.3	728.6	952.1	1026.1	1034.1
25°	156.0	169.3	198.3	263.1	366.3	517.0	763.0	1040.7	1135.9	1135.9
27.5°	145.5	150.7	170.6	228.8	338.5	505.1	797.4	1138.5	1227.1	1245.6
30°	142.8	156.0	166.6	203.6	308.1	472.1	829.1	1215.2	1306.5	1307.8
32.5°	140.2	137.5	145.5	177.2	271.1	437.7	855.5	1293.2	1364.6	1368.6
35°	109.8	115.0	128.3	156.0	243.3	412.6	868.8	1335.5	1438.7	1442.7
37.5°	103.1	109.8	120.3	144.1	224.8	391.4	872.7	1417.5	1516.7	1524.6
40°	100.5	105.8	113.7	133.6	210.2	365.0	880.7	1502.2	1631.7	1621.2
42.5°	95.2	101.8	109.8	128.3	198.3	345.1	882.0	1548.4	1692.6	1692.6
45°	93.9	97.9	107.1	128.3	185.1	327.9	860.8	1594.7	1762.7	1741.5
47.5°	88.6	96.5	104.5	124.3	169.3	310.7	835.7	1618.5	1771.9	1765.3
50°	87.3	95.2	108.4	117.7	160.0	302.8	830.4	1678.0	1790.4	1789.1
52.5°	84.6	92.6	112.4	112.4	148.1	292.2	855.5	1704.5	1794.4	1805.0
55°	80.7	92.6	104.5	103.1	137.5	279.0	883.3	1773.2	1864.5	1861.8
57.5°	78.0	89.9	99.2	93.9	125.6	269.8	924.3	1839.4	1949.1	1930.6
60°	74.1	89.9	88.6	87.3	116.4	261.8	958.7	1852.6	1967.6	1979.5
62.5°	71.4	93.9	78.0	80.7	108.4	257.9	944.1	1753.4	1942.5	1953.1
65°	68.8	80.7	71.4	74.1	105.8	249.9	887.3	1634.4	1834.1	1880.3
67.5°	63.5	66.1	66.1	68.8	103.1	231.4	770.9	1420.2	1668.8	1693.9
70°	58.2	59.5	59.5	63.5	100.5	210.2	636.0	1228.4	1447.9	1495.5
72.5°	52.9	52.9	52.9	58.2	92.6	193.1	523.6	944.1	1203.3	1236.4
75°	46.3	46.3	46.3	51.6	83.3	175.9	412.6	702.2	886.0	933.6
77.5°	41.0	41.0	39.7	46.3	72.7	142.8	297.5	495.9	624.1	663.8
80°	34.4	33.1	33.1	37.0	56.9	103.1	191.7	350.4	435.0	452.2
82.5°	27.8	26.4	25.1	27.8	41.0	64.8	119.0	244.6	279.0	268.4
85°	26.4	27.8	22.5	21.2	29.1	42.3	75.4	150.7	125.6	125.6
87.5°	10.6	9.3	9.3	7.9	14.5	15.9	33.1	27.8	21.2	21.2
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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