

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: P675910

Luminaire Tested: **CCW-SA-1C-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675910
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SLL distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

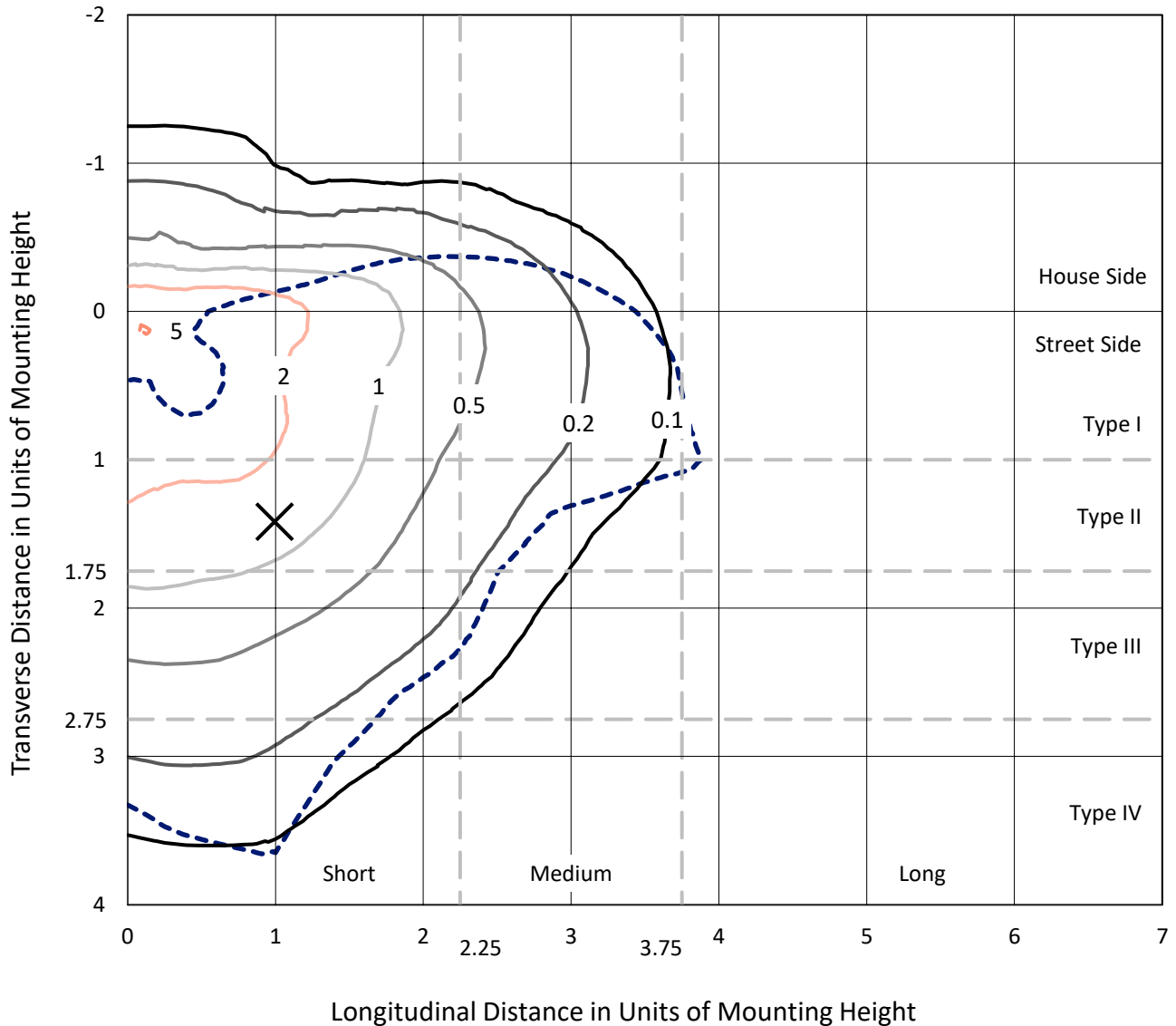
Lumens per Lamp: N/A
Luminaire Lumens: 3198.5 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

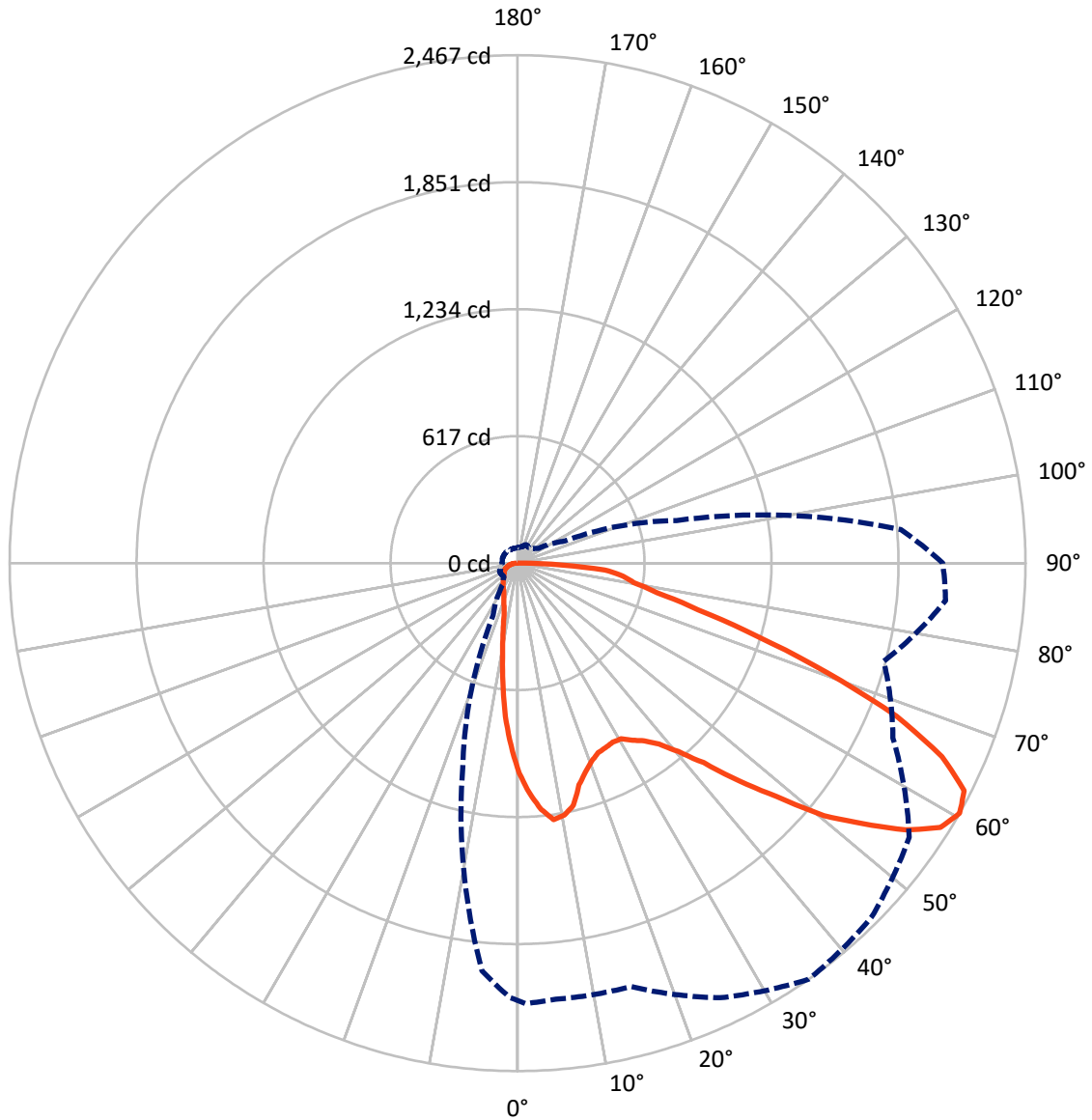
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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	608.7	0.0	608.7
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2589.7	0.0	2589.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	3198.5	0.0	3198.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	2.5
10°-20°	167.6	5.2
20°-30°	245.2	7.7
30°-40°	345.4	10.8
40°-50°	474.7	14.8
50°-60°	647.0	20.2
60°-70°	708.1	22.1
70°-80°	408.8	12.8
80°-90°	122.4	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°	3198.5	100.0
0°-180°	3198.5	100.0



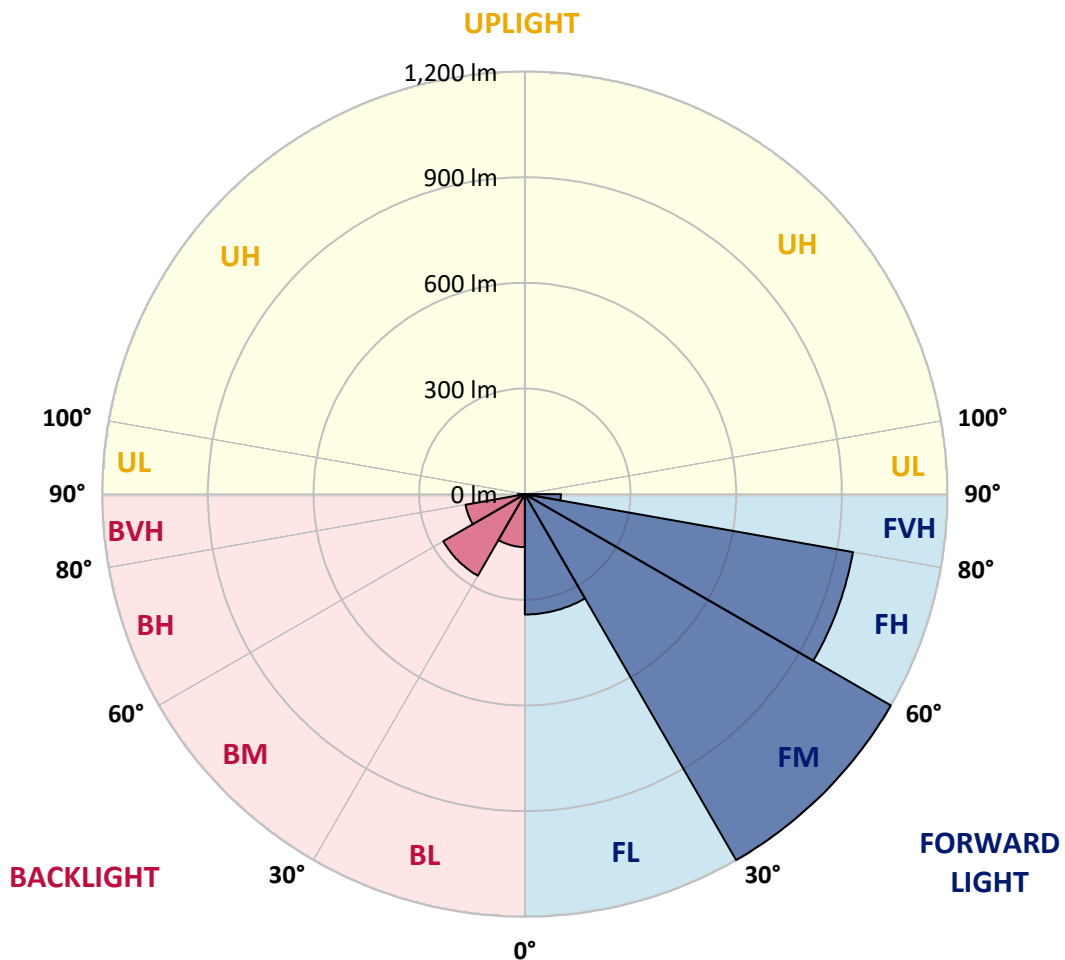
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.7	10.7			
FM (30°-60°)	1199.7	37.5			
FH (60°-80°)	945.9	29.6			G1/1800
FVH (80°-90°)	102.5	3.2			G2/225
BL (0°-30°)	150.4	4.7	B1/500		
BM (30°-60°)	267.4	8.4	B1/1000		
BH (60°-80°)	171.0	5.3	B1/500		G1/500
BVH (80°-90°)	20.0	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°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	1093.9	1089.7	1093.9	1109.5	1113.8	1120.9	1120.9	1111.0	1092.5	1084.0	1069.8
5°	1118.0	1111.0	1146.4	1179.1	1204.6	1201.8	1177.6	1157.8	1120.9	1065.6	1013.1
7.5°	1069.8	1076.9	1102.4	1187.6	1247.2	1258.5	1220.2	1180.5	1101.0	1024.4	953.5
10°	979.0	988.9	1044.3	1132.2	1225.9	1244.3	1220.2	1172.0	1076.9	981.8	899.5
12.5°	935.0	957.7	990.4	1096.8	1163.5	1207.4	1196.1	1164.9	1058.5	946.4	866.9
15°	935.0	940.7	988.9	1078.3	1116.6	1118.0	1122.3	1128.0	1064.1	962.0	855.6
17.5°	964.8	980.4	1021.6	1076.9	1084.0	1067.0	1067.0	1091.1	1075.5	1006.0	896.7
20°	1037.2	1031.5	1085.4	1108.1	1069.8	1027.2	1023.0	1064.1	1088.3	1052.8	971.9
22.5°	1109.5	1135.1	1179.1	1128.0	1057.0	1000.3	994.6	1045.7	1126.6	1133.7	1058.5
25°	1218.8	1244.3	1267.0	1204.6	1055.6	993.2	997.4	1037.2	1173.4	1248.6	1203.2
27.5°	1336.6	1352.2	1384.8	1288.3	1089.7	984.7	988.9	1048.5	1217.4	1323.8	1316.7
30°	1403.2	1420.3	1413.2	1303.9	1112.4	990.4	979.0	1064.1	1193.2	1323.8	1390.5
32.5°	1468.5	1458.6	1454.3	1329.5	1140.8	1025.8	997.4	1096.8	1207.4	1345.1	1485.5
35°	1548.0	1533.8	1522.4	1379.1	1187.6	1059.9	1047.1	1139.3	1238.7	1389.0	1562.1
37.5°	1635.9	1635.9	1580.6	1416.0	1242.9	1115.2	1101.0	1200.3	1288.3	1416.0	1667.1
40°	1739.5	1743.8	1645.9	1465.7	1305.3	1203.2	1198.9	1279.8	1336.6	1455.7	1767.9
42.5°	1816.1	1819.0	1702.6	1484.1	1377.7	1325.2	1343.6	1407.5	1391.9	1491.2	1775.0
45°	1868.6	1854.4	1742.3	1536.6	1457.2	1508.2	1513.9	1532.4	1464.2	1512.5	1803.4
47.5°	1894.2	1891.3	1759.4	1597.6	1624.6	1694.1	1726.7	1701.2	1530.9	1489.8	1803.4
50°	1919.7	1895.6	1775.0	1681.3	1787.7	1928.2	1921.1	1874.3	1623.2	1518.2	1776.4
52.5°	1936.7	1915.4	1806.2	1756.5	1943.8	2102.7	2131.1	2044.6	1731.0	1570.7	1789.2
55°	1997.7	1980.7	1899.8	1858.7	2124.0	2287.2	2291.4	2170.8	1844.5	1657.2	1872.9
57.5°	2071.5	2081.4	2028.9	2003.4	2261.6	2422.0	2406.4	2264.5	1941.0	1762.2	1969.4
60°	2124.0	2139.6	2126.8	2129.7	2329.7	2467.4	2431.9	2322.6	2011.9	1841.7	2087.1
62.5°	2095.6	2126.8	2179.3	2168.0	2332.6	2434.7	2385.1	2246.0	2020.4	1945.2	2176.5
65°	2017.6	2020.4	2122.6	2185.0	2204.9	2265.9	2200.6	2085.7	1932.5	2009.1	2163.7
67.5°	1817.5	1840.2	1932.5	2054.5	1970.8	1985.0	1979.3	1813.3	1799.1	1965.1	2065.8
70°	1604.7	1620.3	1721.1	1864.4	1664.3	1597.6	1610.4	1486.9	1545.1	1828.9	1868.6
72.5°	1326.6	1336.6	1451.5	1577.8	1335.1	1215.9	1245.7	1145.0	1227.3	1600.5	1576.3
75°	1001.7	1020.1	1109.5	1258.5	983.3	906.6	936.4	895.3	971.9	1318.1	1223.0
77.5°	712.3	698.1	808.7	984.7	739.2	693.8	696.7	703.7	786.0	1111.0	878.3
80°	485.2	489.5	588.8	722.2	580.3	573.2	566.1	622.9	659.8	879.7	638.5
82.5°	288.0	288.0	397.3	513.6	458.3	516.5	483.8	534.9	516.5	647.0	418.6
85°	134.8	134.8	204.3	370.3	354.7	425.7	361.8	404.4	381.7	451.2	188.7
87.5°	22.7	19.9	41.1	181.6	146.1	166.0	65.3	215.7	239.8	315.0	46.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	1054.2	1044.3	1024.4	998.9	977.6	950.6	942.1	923.7	898.1	895.3	883.9
5°	993.2	959.1	916.6	864.1	828.6	791.7	760.5	742.1	720.8	717.9	712.3
7.5°	926.5	883.9	813.0	750.6	689.6	631.4	603.0	567.5	543.4	525.0	516.5
10°	864.1	824.3	736.4	651.2	597.3	559.0	525.0	488.1	458.3	435.6	427.1
12.5°	822.9	776.1	681.0	600.2	560.4	516.5	478.2	438.4	400.1	370.3	354.7
15°	804.5	760.5	664.0	574.6	516.5	455.4	411.5	371.7	324.9	303.6	296.5
17.5°	848.5	783.2	658.3	544.8	462.5	393.0	339.1	296.5	262.5	241.2	232.7
20°	905.2	824.3	668.3	509.4	411.5	333.4	273.8	228.4	205.7	190.1	188.7
22.5°	977.6	885.4	683.9	483.8	354.7	268.2	214.2	187.3	171.7	170.3	167.4
25°	1106.7	996.0	709.4	449.8	309.3	221.3	183.0	167.4	160.3	156.1	158.9
27.5°	1217.4	1068.4	727.9	428.5	290.9	208.6	177.4	160.3	153.2	151.8	153.2
30°	1282.6	1135.1	722.2	388.8	254.0	198.6	188.7	183.0	168.8	157.5	157.5
32.5°	1342.2	1177.6	720.8	353.3	217.1	166.0	157.5	153.2	161.7	167.4	163.2
35°	1424.5	1244.3	716.5	333.4	201.5	153.2	139.0	127.7	122.0	119.2	123.4
37.5°	1512.5	1289.7	705.2	330.6	193.0	146.1	134.8	123.4	117.8	114.9	113.5
40°	1609.0	1338.0	692.4	316.4	188.7	141.9	130.5	120.6	113.5	109.3	107.8
42.5°	1671.4	1376.3	679.6	309.3	180.2	139.0	126.3	117.8	110.7	105.0	105.0
45°	1706.9	1421.7	666.9	302.2	170.3	140.5	126.3	114.9	106.4	103.6	100.7
47.5°	1722.5	1455.7	662.6	290.9	161.7	134.8	123.4	112.1	103.6	97.9	96.5
50°	1763.6	1528.1	678.2	282.3	151.8	129.1	130.5	110.7	102.2	95.1	93.6
52.5°	1787.7	1586.3	712.3	269.6	144.7	122.0	127.7	107.8	97.9	90.8	90.8
55°	1875.7	1682.7	749.1	259.6	136.2	112.1	117.8	102.2	90.8	86.5	86.5
57.5°	1987.8	1784.9	780.4	255.4	130.5	105.0	105.0	99.3	86.5	80.9	79.5
60°	2065.8	1868.6	798.8	252.6	124.9	97.9	93.6	99.3	82.3	76.6	75.2
62.5°	2074.3	1820.4	780.4	251.1	123.4	90.8	85.1	95.1	78.0	72.4	69.5
65°	2020.4	1722.5	729.3	245.5	122.0	83.7	79.5	82.3	72.4	68.1	65.3
67.5°	1912.6	1563.6	655.5	242.6	120.6	78.0	72.4	70.9	66.7	62.4	59.6
70°	1661.5	1356.4	569.0	229.9	117.8	73.8	65.3	63.8	59.6	56.8	55.3
72.5°	1394.7	1109.5	469.6	212.8	112.1	66.7	59.6	56.8	55.3	51.1	49.7
75°	1068.4	854.1	376.0	188.7	97.9	59.6	52.5	49.7	48.2	45.4	44.0
77.5°	750.6	635.6	278.1	153.2	82.3	53.9	46.8	44.0	42.6	38.3	38.3
80°	509.4	445.5	188.7	106.4	63.8	44.0	41.1	38.3	35.5	32.6	32.6
82.5°	316.4	312.1	136.2	69.5	46.8	35.5	32.6	32.6	28.4	25.5	25.5
85°	144.7	191.5	95.1	48.2	35.5	27.0	27.0	25.5	22.7	18.4	18.4
87.5°	45.4	63.8	49.7	21.3	19.9	15.6	15.6	14.2	14.2	11.4	11.4
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°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	895.3	893.9	893.9	888.2	902.4	902.4	910.9	903.8	908.1	909.5	920.8
5°	710.8	722.2	730.7	747.7	757.7	761.9	761.9	773.3	769.0	777.5	794.6
7.5°	520.7	534.9	560.4	581.7	598.8	604.4	603.0	605.8	610.1	600.2	603.0
10°	421.4	411.5	420.0	439.8	455.4	473.9	459.7	458.3	462.5	458.3	466.8
12.5°	351.9	340.5	333.4	333.4	344.8	353.3	349.0	356.1	371.7	376.0	385.9
15°	285.2	275.3	269.6	262.5	273.8	276.7	280.9	290.9	302.2	307.9	319.2
17.5°	228.4	228.4	228.4	222.8	227.0	231.3	232.7	245.5	246.9	252.6	256.8
20°	187.3	191.5	198.6	201.5	205.7	205.7	202.9	210.0	204.3	208.6	211.4
22.5°	168.8	174.5	177.4	178.8	184.4	185.9	178.8	180.2	181.6	177.4	178.8
25°	158.9	161.7	158.9	160.3	161.7	158.9	160.3	163.2	161.7	164.6	163.2
27.5°	154.7	151.8	150.4	149.0	149.0	146.1	147.6	147.6	150.4	151.8	151.8
30°	154.7	150.4	144.7	140.5	140.5	136.2	139.0	141.9	143.3	146.1	146.1
32.5°	158.9	150.4	140.5	136.2	132.0	129.1	132.0	136.2	141.9	143.3	144.7
35°	126.3	130.5	129.1	123.4	122.0	122.0	120.6	120.6	116.3	116.3	114.9
37.5°	113.5	112.1	114.9	116.3	117.8	113.5	113.5	107.8	106.4	107.8	107.8
40°	106.4	106.4	106.4	110.7	112.1	109.3	105.0	102.2	102.2	102.2	103.6
42.5°	103.6	100.7	99.3	102.2	106.4	103.6	99.3	97.9	97.9	99.3	99.3
45°	99.3	97.9	96.5	95.1	100.7	96.5	95.1	93.6	93.6	93.6	95.1
47.5°	95.1	93.6	90.8	90.8	92.2	90.8	89.4	89.4	89.4	92.2	92.2
50°	92.2	90.8	88.0	88.0	88.0	88.0	86.5	86.5	86.5	88.0	89.4
52.5°	88.0	86.5	85.1	83.7	83.7	83.7	83.7	83.7	83.7	85.1	86.5
55°	83.7	82.3	80.9	80.9	82.3	82.3	80.9	82.3	80.9	82.3	83.7
57.5°	79.5	78.0	76.6	78.0	79.5	78.0	78.0	78.0	78.0	78.0	79.5
60°	73.8	73.8	73.8	73.8	76.6	76.6	76.6	76.6	73.8	75.2	76.6
62.5°	70.9	69.5	69.5	70.9	72.4	72.4	73.8	72.4	70.9	72.4	72.4
65°	65.3	65.3	65.3	66.7	66.7	68.1	68.1	68.1	66.7	68.1	68.1
67.5°	61.0	61.0	61.0	61.0	63.8	63.8	63.8	63.8	62.4	62.4	63.8
70°	53.9	55.3	53.9	56.8	59.6	58.2	59.6	59.6	58.2	56.8	59.6
72.5°	49.7	49.7	49.7	49.7	53.9	53.9	53.9	55.3	53.9	52.5	53.9
75°	44.0	44.0	44.0	45.4	48.2	48.2	48.2	48.2	48.2	46.8	46.8
77.5°	38.3	39.7	38.3	39.7	42.6	41.1	42.6	44.0	42.6	41.1	41.1
80°	32.6	32.6	32.6	34.1	35.5	35.5	35.5	36.9	35.5	34.1	34.1
82.5°	25.5	25.5	27.0	27.0	28.4	28.4	28.4	29.8	28.4	27.0	27.0
85°	19.9	19.9	19.9	21.3	21.3	22.7	22.7	24.1	24.1	22.7	22.7
87.5°	12.8	11.4	12.8	12.8	14.2	14.2	12.8	11.4	12.8	11.4	9.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6	1021.6
2.5°	932.2	957.7	976.2	988.9	1007.4	1042.9	1057.0	1082.6	1089.7	1093.9
5°	801.6	828.6	868.3	896.7	929.3	996.0	1047.1	1085.4	1102.4	1118.0
7.5°	628.5	664.0	705.2	742.1	796.0	878.3	945.0	1024.4	1054.2	1069.8
10°	490.9	523.6	569.0	614.4	689.6	759.1	854.1	926.5	967.7	979.0
12.5°	414.3	452.6	506.5	561.9	608.7	688.1	784.6	889.6	927.9	935.0
15°	351.9	404.4	459.7	516.5	570.4	639.9	743.5	871.2	927.9	935.0
17.5°	290.9	337.7	403.0	464.0	526.4	621.5	750.6	886.8	943.5	964.8
20°	231.3	276.7	327.8	404.4	489.5	590.2	766.2	939.3	1014.5	1037.2
22.5°	191.5	211.4	261.1	334.8	435.6	569.0	781.8	1021.6	1101.0	1109.5
25°	167.4	181.6	212.8	282.3	393.0	554.8	818.7	1116.6	1218.8	1218.8
27.5°	156.1	161.7	183.0	245.5	363.2	542.0	855.6	1221.6	1316.7	1336.6
30°	153.2	167.4	178.8	218.5	330.6	506.5	889.6	1303.9	1401.8	1403.2
32.5°	150.4	147.6	156.1	190.1	290.9	469.6	918.0	1387.6	1464.2	1468.5
35°	117.8	123.4	137.6	167.4	261.1	442.7	932.2	1433.0	1543.7	1548.0
37.5°	110.7	117.8	129.1	154.7	241.2	420.0	936.4	1521.0	1627.4	1635.9
40°	107.8	113.5	122.0	143.3	225.6	391.6	945.0	1611.8	1750.9	1739.5
42.5°	102.2	109.3	117.8	137.6	212.8	370.3	946.4	1661.5	1816.1	1816.1
45°	100.7	105.0	114.9	137.6	198.6	351.9	923.7	1711.1	1891.3	1868.6
47.5°	95.1	103.6	112.1	133.4	181.6	333.4	896.7	1736.7	1901.3	1894.2
50°	93.6	102.2	116.3	126.3	171.7	324.9	891.0	1800.5	1921.1	1919.7
52.5°	90.8	99.3	120.6	120.6	158.9	313.6	918.0	1828.9	1925.4	1936.7
55°	86.5	99.3	112.1	110.7	147.6	299.4	947.8	1902.7	2000.6	1997.7
57.5°	83.7	96.5	106.4	100.7	134.8	289.4	991.8	1973.6	2091.4	2071.5
60°	79.5	96.5	95.1	93.6	124.9	280.9	1028.7	1987.8	2111.2	2124.0
62.5°	76.6	100.7	83.7	86.5	116.3	276.7	1013.1	1881.4	2084.3	2095.6
65°	73.8	86.5	76.6	79.5	113.5	268.2	952.0	1753.7	1967.9	2017.6
67.5°	68.1	70.9	70.9	73.8	110.7	248.3	827.2	1523.8	1790.6	1817.5
70°	62.4	63.8	63.8	68.1	107.8	225.6	682.5	1318.1	1553.6	1604.7
72.5°	56.8	56.8	56.8	62.4	99.3	207.2	561.9	1013.1	1291.1	1326.6
75°	49.7	49.7	49.7	55.3	89.4	188.7	442.7	753.4	950.6	1001.7
77.5°	44.0	44.0	42.6	49.7	78.0	153.2	319.2	532.1	669.7	712.3
80°	36.9	35.5	35.5	39.7	61.0	110.7	205.7	376.0	466.8	485.2
82.5°	29.8	28.4	27.0	29.8	44.0	69.5	127.7	262.5	299.4	288.0
85°	28.4	29.8	24.1	22.7	31.2	45.4	80.9	161.7	134.8	134.8
87.5°	11.4	9.9	9.9	8.5	15.6	17.0	35.5	29.8	22.7	22.7
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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