

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: P675892

Luminaire Tested: **CCW-SA-2A-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675892
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

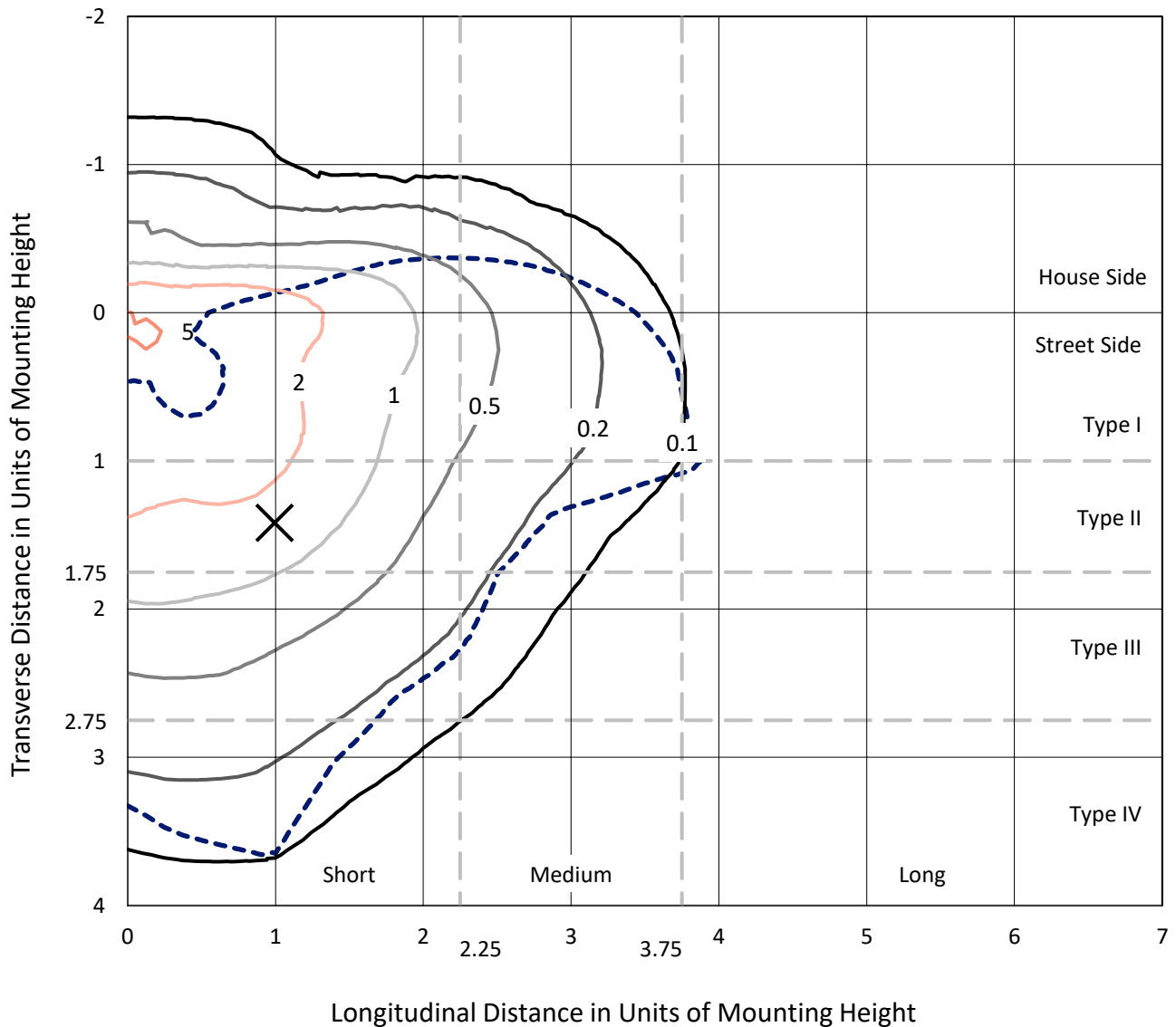
Lumens per Lamp: N/A
Luminaire Lumens: 3607.4 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (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

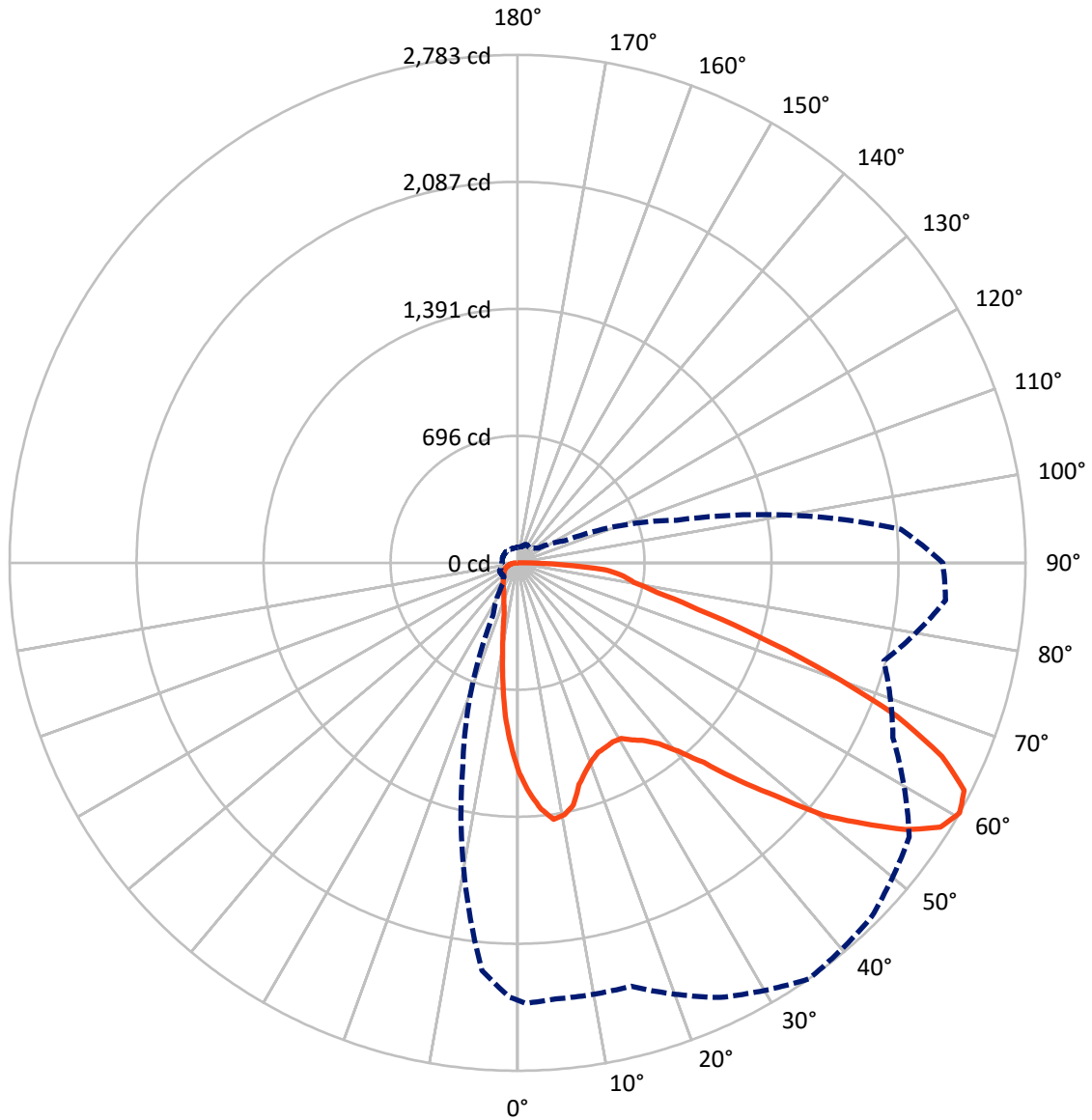
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 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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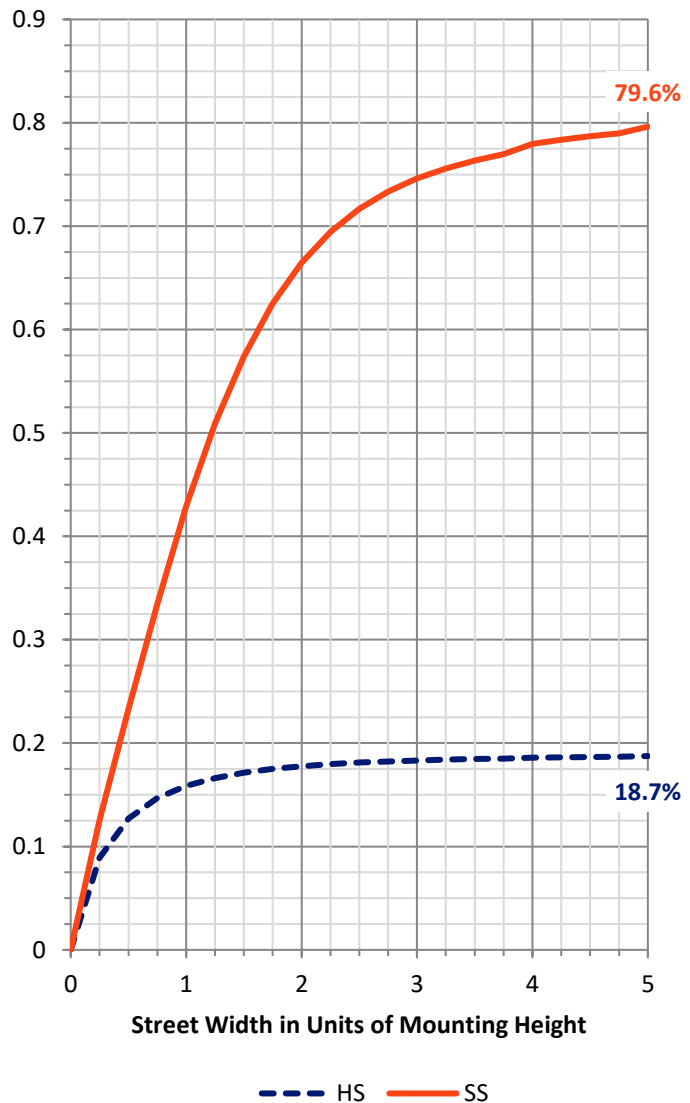
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.5	0.0	686.5
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2920.9	0.0	2920.9
	% Fixture	81.0	0.0	81.0
Total	Lumens	3607.4	0.0	3607.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	2.5
10°-20°	189.0	5.2
20°-30°	276.5	7.7
30°-40°	389.6	10.8
40°-50°	535.4	14.8
50°-60°	729.7	20.2
60°-70°	798.6	22.1
70°-80°	461.1	12.8
80°-90°	138.1	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°	3607.4	100.0
0°-180°	3607.4	100.0

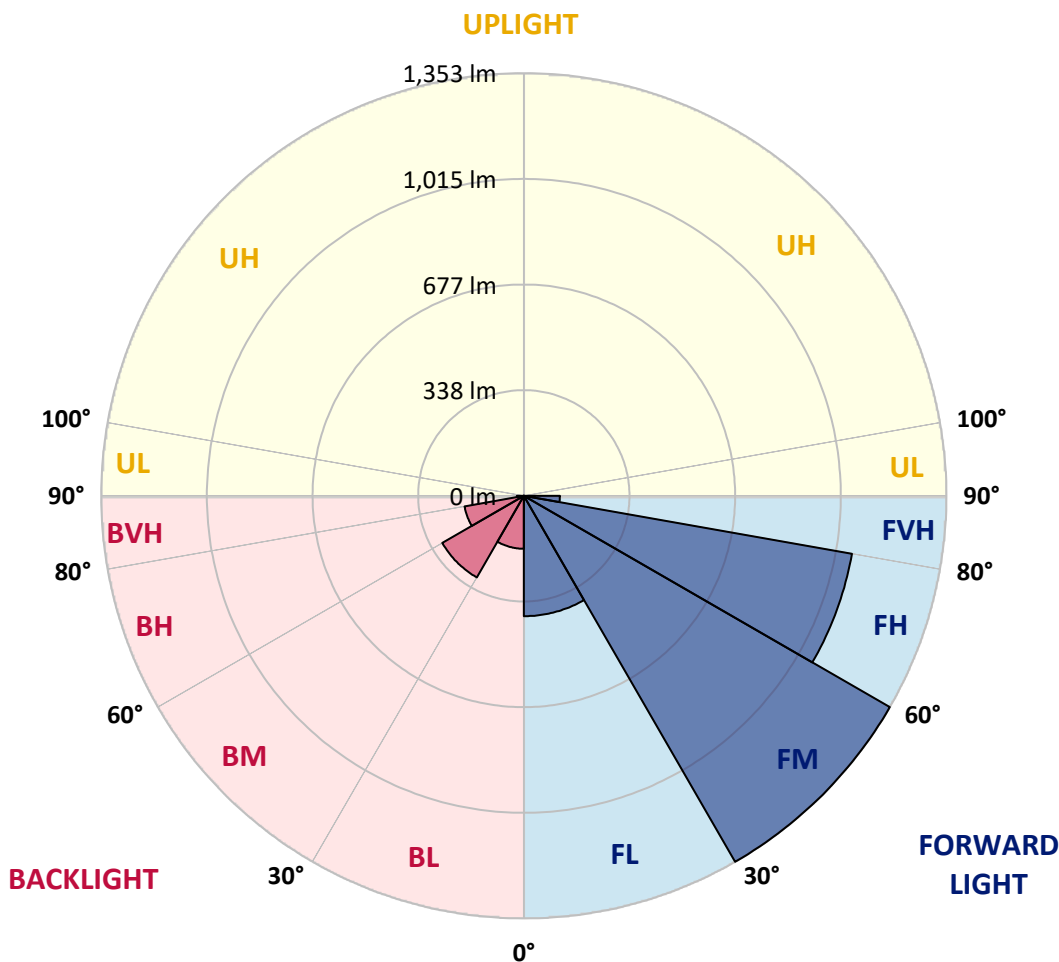


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.4	10.7			
FM (30°-60°)	1353.1	37.5			
FH (60°-80°)	1066.9	29.6			G1/1800
FVH (80°-90°)	115.6	3.2			G2/225
BL (0°-30°)	169.6	4.7	B1/500		
BM (30°-60°)	301.6	8.4	B1/1000		
BH (60°-80°)	192.8	5.3	B1/500		G1/500
BVH (80°-90°)	22.5	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°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1233.8	1229.0	1233.8	1251.4	1256.2	1264.2	1264.2	1253.0	1232.2	1222.6	1206.6
5°	1261.0	1253.0	1293.0	1329.8	1358.6	1355.4	1328.2	1305.8	1264.2	1201.8	1142.6
7.5°	1206.6	1214.6	1243.4	1339.4	1406.6	1419.4	1376.2	1331.4	1241.8	1155.4	1075.4
10°	1104.2	1115.4	1177.8	1277.0	1382.6	1403.4	1376.2	1321.8	1214.6	1107.4	1014.6
12.5°	1054.6	1080.2	1117.0	1237.0	1312.2	1361.8	1349.0	1313.8	1193.8	1067.4	977.8
15°	1054.6	1061.0	1115.4	1216.2	1259.4	1261.0	1265.8	1272.2	1200.2	1085.0	965.0
17.5°	1088.2	1105.8	1152.2	1214.6	1222.6	1203.4	1203.4	1230.6	1213.0	1134.6	1011.4
20°	1169.8	1163.4	1224.2	1249.8	1206.6	1158.6	1153.8	1200.2	1227.4	1187.4	1096.2
22.5°	1251.4	1280.2	1329.8	1272.2	1192.2	1128.2	1121.8	1179.4	1270.6	1278.6	1193.8
25°	1374.6	1403.4	1429.0	1358.6	1190.6	1120.2	1125.0	1169.8	1323.4	1408.2	1357.0
27.5°	1507.5	1525.1	1561.9	1453.1	1229.0	1110.6	1115.4	1182.6	1373.0	1493.1	1485.1
30°	1582.7	1601.9	1593.9	1470.7	1254.6	1117.0	1104.2	1200.2	1345.8	1493.1	1568.3
32.5°	1656.3	1645.1	1640.3	1499.5	1286.6	1157.0	1125.0	1237.0	1361.8	1517.1	1675.5
35°	1745.9	1729.9	1717.1	1555.5	1339.4	1195.4	1181.0	1285.0	1397.0	1566.7	1761.9
37.5°	1845.1	1845.1	1782.7	1597.1	1401.8	1257.8	1241.8	1353.8	1453.1	1597.1	1880.3
40°	1961.9	1966.7	1856.3	1653.1	1472.3	1357.0	1352.2	1443.4	1507.5	1641.9	1993.9
42.5°	2048.4	2051.6	1920.3	1673.9	1553.9	1494.7	1515.5	1587.5	1569.9	1681.9	2001.9
45°	2107.6	2091.6	1965.1	1733.1	1643.5	1701.1	1707.5	1728.3	1651.5	1705.9	2034.0
47.5°	2136.4	2133.2	1984.3	1801.9	1832.3	1910.7	1947.5	1918.7	1726.7	1680.3	2034.0
50°	2165.2	2138.0	2001.9	1896.3	2016.3	2174.8	2166.8	2114.0	1830.7	1712.3	2003.5
52.5°	2184.4	2160.4	2037.2	1981.1	2192.4	2371.6	2403.6	2306.0	1952.3	1771.5	2017.9
55°	2253.2	2234.0	2142.8	2096.4	2395.6	2579.6	2584.4	2448.4	2080.4	1869.1	2112.4
57.5°	2336.4	2347.6	2288.4	2259.6	2550.8	2731.7	2714.1	2554.0	2189.2	1987.5	2221.2
60°	2395.6	2413.2	2398.8	2402.0	2627.7	2782.9	2742.9	2619.7	2269.2	2077.2	2354.0
62.5°	2363.6	2398.8	2458.0	2445.2	2630.9	2746.1	2690.1	2533.2	2278.8	2194.0	2454.8
65°	2275.6	2278.8	2394.0	2464.4	2486.8	2555.6	2482.0	2352.4	2179.6	2266.0	2440.4
67.5°	2050.0	2075.6	2179.6	2317.2	2222.8	2238.8	2232.4	2045.2	2029.1	2216.4	2330.0
70°	1809.9	1827.5	1941.1	2102.8	1877.1	1801.9	1816.3	1677.1	1742.7	2062.8	2107.6
72.5°	1496.3	1507.5	1637.1	1779.5	1505.9	1371.4	1405.0	1291.4	1384.2	1805.1	1777.9
75°	1129.8	1150.6	1251.4	1419.4	1109.0	1022.6	1056.2	1009.8	1096.2	1486.7	1379.4
77.5°	803.3	787.3	912.2	1110.6	833.7	782.5	785.7	793.7	886.6	1253.0	990.6
80°	547.3	552.1	664.1	814.5	654.5	646.5	638.5	702.5	744.1	992.2	720.1
82.5°	324.9	324.9	448.1	579.3	516.9	582.5	545.7	603.3	582.5	729.7	472.1
85°	152.0	152.0	230.4	417.7	400.1	480.1	408.1	456.1	430.5	508.9	212.8
87.5°	25.6	22.4	46.4	204.8	164.8	187.2	73.6	243.2	270.4	355.3	52.8
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°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1189.0	1177.8	1155.4	1126.6	1102.6	1072.2	1062.6	1041.8	1013.0	1009.8	997.0
5°	1120.2	1081.8	1033.8	974.6	934.6	893.0	857.7	836.9	812.9	809.7	803.3
7.5°	1045.0	997.0	917.0	846.5	777.7	712.1	680.1	640.1	612.9	592.1	582.5
10°	974.6	929.8	830.5	734.5	673.7	630.5	592.1	550.5	516.9	491.3	481.7
12.5°	928.2	875.4	768.1	676.9	632.1	582.5	539.3	494.5	451.3	417.7	400.1
15°	907.4	857.7	748.9	648.1	582.5	513.7	464.1	419.3	366.5	342.5	334.5
17.5°	957.0	883.4	742.5	614.5	521.7	443.3	382.5	334.5	296.1	272.0	262.4
20°	1021.0	929.8	753.7	574.5	464.1	376.1	308.9	257.6	232.0	214.4	212.8
22.5°	1102.6	998.6	771.3	545.7	400.1	302.5	241.6	211.2	193.6	192.0	188.8
25°	1248.2	1123.4	800.1	507.3	348.9	249.6	206.4	188.8	180.8	176.0	179.2
27.5°	1373.0	1205.0	820.9	483.3	328.1	235.2	200.0	180.8	172.8	171.2	172.8
30°	1446.6	1280.2	814.5	438.5	286.4	224.0	212.8	206.4	190.4	177.6	177.6
32.5°	1513.9	1328.2	812.9	398.5	244.8	187.2	177.6	172.8	182.4	188.8	184.0
35°	1606.7	1403.4	808.1	376.1	227.2	172.8	156.8	144.0	137.6	134.4	139.2
37.5°	1705.9	1454.7	795.3	372.9	217.6	164.8	152.0	139.2	132.8	129.6	128.0
40°	1814.7	1509.1	780.9	356.9	212.8	160.0	147.2	136.0	128.0	123.2	121.6
42.5°	1885.1	1552.3	766.5	348.9	203.2	156.8	142.4	132.8	124.8	118.4	118.4
45°	1925.1	1603.5	752.1	340.9	192.0	158.4	142.4	129.6	120.0	116.8	113.6
47.5°	1942.7	1641.9	747.3	328.1	182.4	152.0	139.2	126.4	116.8	110.4	108.8
50°	1989.1	1723.5	764.9	318.5	171.2	145.6	147.2	124.8	115.2	107.2	105.6
52.5°	2016.3	1789.1	803.3	304.1	163.2	137.6	144.0	121.6	110.4	102.4	102.4
55°	2115.6	1897.9	844.9	292.9	153.6	126.4	132.8	115.2	102.4	97.6	97.6
57.5°	2242.0	2013.1	880.2	288.0	147.2	118.4	118.4	112.0	97.6	91.2	89.6
60°	2330.0	2107.6	901.0	284.8	140.8	110.4	105.6	112.0	92.8	86.4	84.8
62.5°	2339.6	2053.2	880.2	283.2	139.2	102.4	96.0	107.2	88.0	81.6	78.4
65°	2278.8	1942.7	822.5	276.8	137.6	94.4	89.6	92.8	81.6	76.8	73.6
67.5°	2157.2	1763.5	739.3	273.6	136.0	88.0	81.6	80.0	75.2	70.4	67.2
70°	1873.9	1529.9	641.7	259.2	132.8	83.2	73.6	72.0	67.2	64.0	62.4
72.5°	1573.1	1251.4	529.7	240.0	126.4	75.2	67.2	64.0	62.4	57.6	56.0
75°	1205.0	963.4	424.1	212.8	110.4	67.2	59.2	56.0	54.4	51.2	49.6
77.5°	846.5	716.9	313.7	172.8	92.8	60.8	52.8	49.6	48.0	43.2	43.2
80°	574.5	502.5	212.8	120.0	72.0	49.6	46.4	43.2	40.0	36.8	36.8
82.5°	356.9	352.1	153.6	78.4	52.8	40.0	36.8	36.8	32.0	28.8	28.8
85°	163.2	216.0	107.2	54.4	40.0	30.4	30.4	28.8	25.6	20.8	20.8
87.5°	51.2	72.0	56.0	24.0	22.4	17.6	17.6	16.0	16.0	12.8	12.8
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°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1009.8	1008.2	1008.2	1001.8	1017.8	1017.8	1027.4	1019.4	1024.2	1025.8	1038.6
5°	801.7	814.5	824.1	843.3	854.5	859.3	859.3	872.2	867.3	877.0	896.2
7.5°	587.3	603.3	632.1	656.1	675.3	681.7	680.1	683.3	688.1	676.9	680.1
10°	475.3	464.1	473.7	496.1	513.7	534.5	518.5	516.9	521.7	516.9	526.5
12.5°	396.9	384.1	376.1	376.1	388.9	398.5	393.7	401.7	419.3	424.1	435.3
15°	321.7	310.5	304.1	296.1	308.9	312.1	316.9	328.1	340.9	347.3	360.1
17.5°	257.6	257.6	257.6	251.2	256.0	260.8	262.4	276.8	278.4	284.8	289.6
20°	211.2	216.0	224.0	227.2	232.0	232.0	228.8	236.8	230.4	235.2	238.4
22.5°	190.4	196.8	200.0	201.6	208.0	209.6	201.6	203.2	204.8	200.0	201.6
25°	179.2	182.4	179.2	180.8	182.4	179.2	180.8	184.0	182.4	185.6	184.0
27.5°	174.4	171.2	169.6	168.0	168.0	164.8	166.4	166.4	169.6	171.2	171.2
30°	174.4	169.6	163.2	158.4	158.4	153.6	156.8	160.0	161.6	164.8	164.8
32.5°	179.2	169.6	158.4	153.6	148.8	145.6	148.8	153.6	160.0	161.6	163.2
35°	142.4	147.2	145.6	139.2	137.6	137.6	136.0	136.0	131.2	131.2	129.6
37.5°	128.0	126.4	129.6	131.2	132.8	128.0	128.0	121.6	120.0	121.6	121.6
40°	120.0	120.0	120.0	124.8	126.4	123.2	118.4	115.2	115.2	115.2	116.8
42.5°	116.8	113.6	112.0	115.2	120.0	116.8	112.0	110.4	110.4	112.0	112.0
45°	112.0	110.4	108.8	107.2	113.6	108.8	107.2	105.6	105.6	105.6	107.2
47.5°	107.2	105.6	102.4	102.4	104.0	102.4	100.8	100.8	100.8	104.0	104.0
50°	104.0	102.4	99.2	99.2	99.2	99.2	97.6	97.6	97.6	99.2	100.8
52.5°	99.2	97.6	96.0	94.4	94.4	94.4	94.4	94.4	94.4	96.0	97.6
55°	94.4	92.8	91.2	91.2	92.8	92.8	91.2	92.8	91.2	92.8	94.4
57.5°	89.6	88.0	86.4	88.0	89.6	88.0	88.0	88.0	88.0	88.0	89.6
60°	83.2	83.2	83.2	83.2	86.4	86.4	86.4	86.4	83.2	84.8	86.4
62.5°	80.0	78.4	78.4	80.0	81.6	81.6	83.2	81.6	80.0	81.6	81.6
65°	73.6	73.6	73.6	75.2	75.2	76.8	76.8	76.8	75.2	76.8	76.8
67.5°	68.8	68.8	68.8	68.8	72.0	72.0	72.0	72.0	70.4	70.4	72.0
70°	60.8	62.4	60.8	64.0	67.2	65.6	67.2	67.2	65.6	64.0	67.2
72.5°	56.0	56.0	56.0	56.0	60.8	60.8	60.8	62.4	60.8	59.2	60.8
75°	49.6	49.6	49.6	51.2	54.4	54.4	54.4	54.4	54.4	52.8	52.8
77.5°	43.2	44.8	43.2	44.8	48.0	46.4	48.0	49.6	48.0	46.4	46.4
80°	36.8	36.8	36.8	38.4	40.0	40.0	40.0	41.6	40.0	38.4	38.4
82.5°	28.8	28.8	30.4	30.4	32.0	32.0	32.0	33.6	32.0	30.4	30.4
85°	22.4	22.4	22.4	24.0	24.0	25.6	25.6	27.2	27.2	25.6	25.6
87.5°	14.4	12.8	14.4	14.4	16.0	16.0	14.4	12.8	14.4	12.8	11.2
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°	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1051.4	1080.2	1101.0	1115.4	1136.2	1176.2	1192.2	1221.0	1229.0	1233.8
5°	904.2	934.6	979.4	1011.4	1048.2	1123.4	1181.0	1224.2	1243.4	1261.0
7.5°	708.9	748.9	795.3	836.9	897.8	990.6	1065.8	1155.4	1189.0	1206.6
10°	553.7	590.5	641.7	692.9	777.7	856.1	963.4	1045.0	1091.4	1104.2
12.5°	467.3	510.5	571.3	633.7	686.5	776.1	885.0	1003.4	1046.6	1054.6
15°	396.9	456.1	518.5	582.5	643.3	721.7	838.5	982.6	1046.6	1054.6
17.5°	328.1	380.9	454.5	523.3	593.7	700.9	846.5	1000.2	1064.2	1088.2
20°	260.8	312.1	369.7	456.1	552.1	665.7	864.1	1059.4	1144.2	1169.8
22.5°	216.0	238.4	294.5	377.7	491.3	641.7	881.8	1152.2	1241.8	1251.4
25°	188.8	204.8	240.0	318.5	443.3	625.7	923.4	1259.4	1374.6	1374.6
27.5°	176.0	182.4	206.4	276.8	409.7	611.3	965.0	1377.8	1485.1	1507.5
30°	172.8	188.8	201.6	246.4	372.9	571.3	1003.4	1470.7	1581.1	1582.7
32.5°	169.6	166.4	176.0	214.4	328.1	529.7	1035.4	1565.1	1651.5	1656.3
35°	132.8	139.2	155.2	188.8	294.5	499.3	1051.4	1616.3	1741.1	1745.9
37.5°	124.8	132.8	145.6	174.4	272.0	473.7	1056.2	1715.5	1835.5	1845.1
40°	121.6	128.0	137.6	161.6	254.4	441.7	1065.8	1817.9	1974.7	1961.9
42.5°	115.2	123.2	132.8	155.2	240.0	417.7	1067.4	1873.9	2048.4	2048.4
45°	113.6	118.4	129.6	155.2	224.0	396.9	1041.8	1929.9	2133.2	2107.6
47.5°	107.2	116.8	126.4	150.4	204.8	376.1	1011.4	1958.7	2144.4	2136.4
50°	105.6	115.2	131.2	142.4	193.6	366.5	1005.0	2030.8	2166.8	2165.2
52.5°	102.4	112.0	136.0	136.0	179.2	353.7	1035.4	2062.8	2171.6	2184.4
55°	97.6	112.0	126.4	124.8	166.4	337.7	1069.0	2146.0	2256.4	2253.2
57.5°	94.4	108.8	120.0	113.6	152.0	326.5	1118.6	2226.0	2358.8	2336.4
60°	89.6	108.8	107.2	105.6	140.8	316.9	1160.2	2242.0	2381.2	2395.6
62.5°	86.4	113.6	94.4	97.6	131.2	312.1	1142.6	2122.0	2350.8	2363.6
65°	83.2	97.6	86.4	89.6	128.0	302.5	1073.8	1977.9	2219.6	2275.6
67.5°	76.8	80.0	80.0	83.2	124.8	280.0	933.0	1718.7	2019.5	2050.0
70°	70.4	72.0	72.0	76.8	121.6	254.4	769.7	1486.7	1752.3	1809.9
72.5°	64.0	64.0	64.0	70.4	112.0	233.6	633.7	1142.6	1456.3	1496.3
75°	56.0	56.0	56.0	62.4	100.8	212.8	499.3	849.7	1072.2	1129.8
77.5°	49.6	49.6	48.0	56.0	88.0	172.8	360.1	600.1	755.3	803.3
80°	41.6	40.0	40.0	44.8	68.8	124.8	232.0	424.1	526.5	547.3
82.5°	33.6	32.0	30.4	33.6	49.6	78.4	144.0	296.1	337.7	324.9
85°	32.0	33.6	27.2	25.6	35.2	51.2	91.2	182.4	152.0	152.0
87.5°	12.8	11.2	11.2	9.6	17.6	19.2	40.0	33.6	25.6	25.6
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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