

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: P677410

Luminaire Tested: **CCW-SA-2A-730-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677410
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-730-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3580.6 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

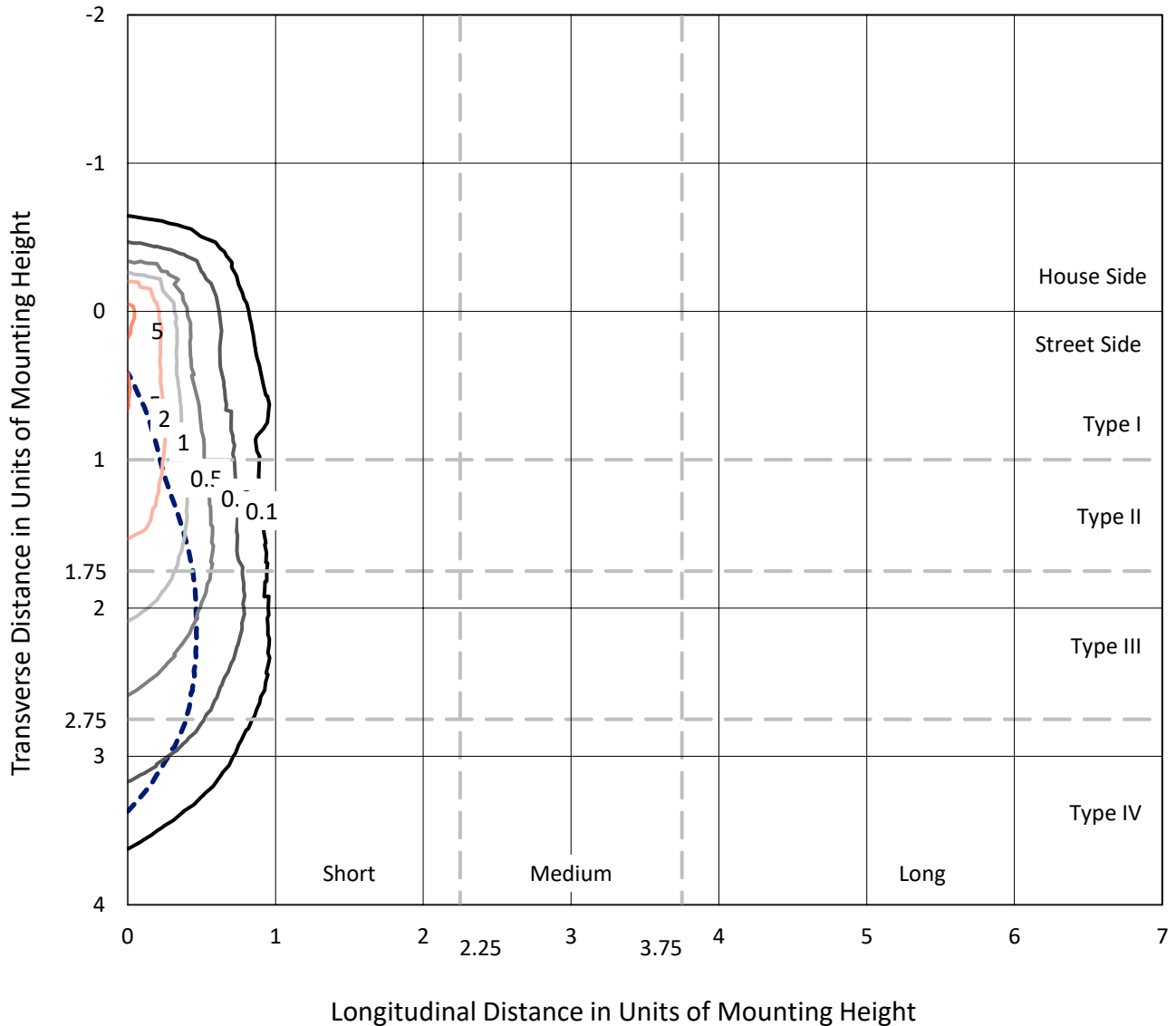
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

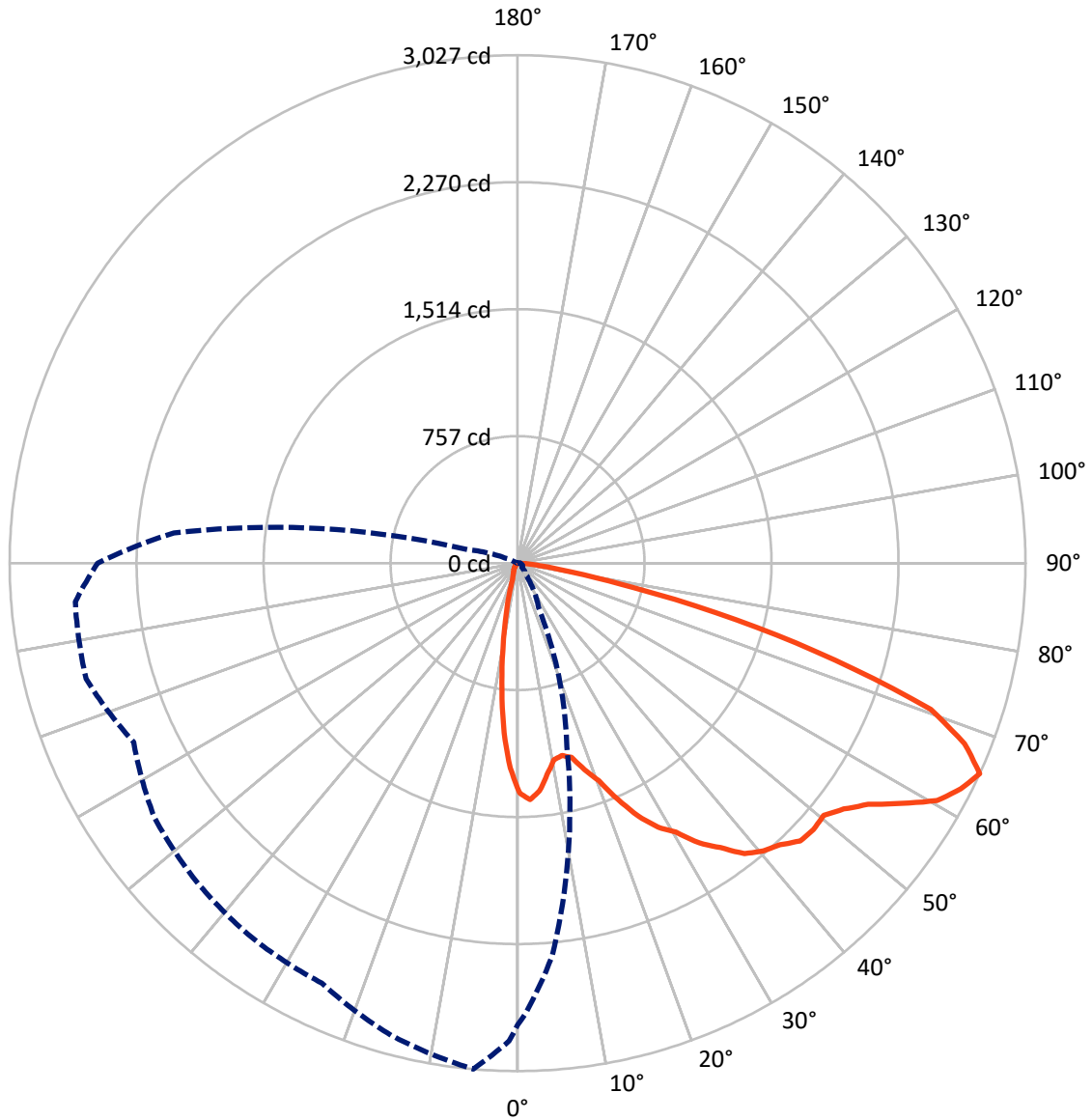
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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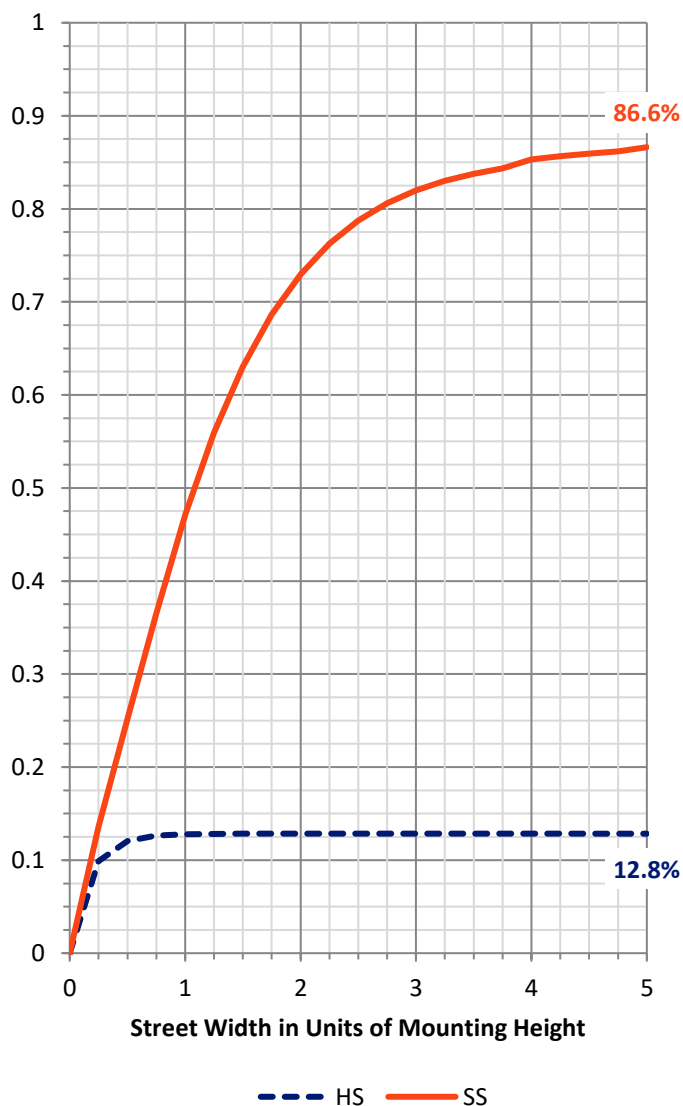
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	464.9	0.0	464.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3115.7	0.0	3115.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	3580.6	0.0	3580.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	2.9
10°-20°	200.8	5.6
20°-30°	279.6	7.8
30°-40°	397.3	11.1
40°-50°	551.0	15.4
50°-60°	750.8	21.0
60°-70°	825.4	23.1
70°-80°	405.7	11.3
80°-90°	66.3	1.9
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°	3580.6	100.0
0°-180°	3580.6	100.0



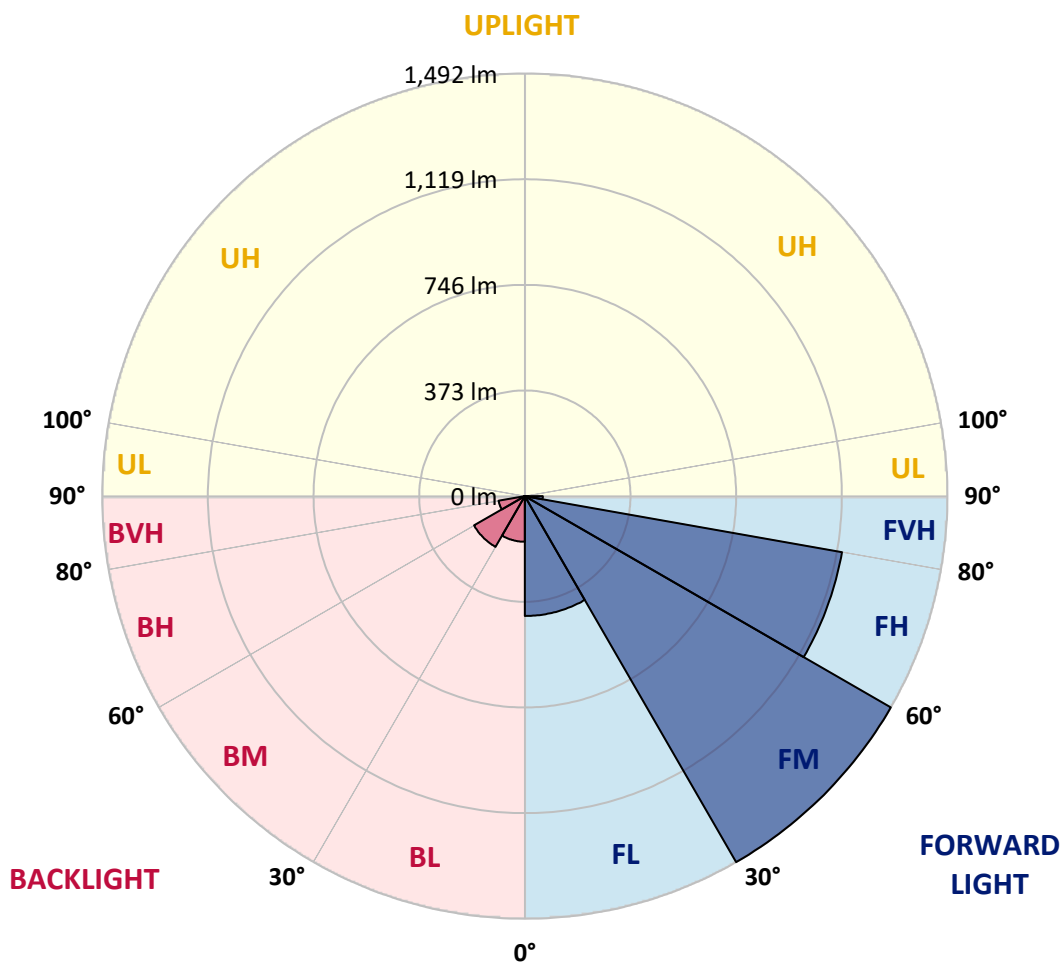
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.1	11.8			
FM (30°-60°)	1492.1	41.7			
FH (60°-80°)	1137.1	31.8			G1/1800
FVH (80°-90°)	63.3	1.8			G1/100
BL (0°-30°)	161.0	4.5	B1/500		
BM (30°-60°)	207.0	5.8	B0/220		
BH (60°-80°)	94.0	2.6	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
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°	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8
2.5°	1396.8	1413.3	1397.8	1343.7	1334.1	1308.0	1268.5	1265.6	1224.0	1228.9	1206.7
5°	1312.9	1329.3	1296.4	1225.0	1158.4	1105.3	1073.5	1016.5	1003.9	976.0	976.0
7.5°	1226.9	1226.0	1170.0	1110.1	1010.7	913.2	868.8	786.7	738.5	712.4	687.3
10°	1155.5	1140.1	1105.3	981.7	873.6	772.3	717.2	663.2	613.0	569.5	526.1
12.5°	1105.3	1115.0	1059.9	925.8	785.8	715.3	656.4	599.5	539.6	490.4	442.1
15°	1131.4	1115.9	1051.2	913.2	771.3	674.8	596.6	527.1	460.5	395.8	359.1
17.5°	1212.5	1172.9	1096.6	913.2	741.4	613.0	518.4	436.3	364.9	307.0	261.6
20°	1321.5	1276.2	1194.1	947.0	719.2	567.6	438.3	335.0	260.6	206.6	171.8
22.5°	1433.5	1397.8	1274.2	960.5	693.1	506.8	345.6	242.3	173.8	139.0	121.6
25°	1567.7	1517.5	1382.4	1014.6	654.5	447.9	272.2	168.9	129.4	111.0	100.4
27.5°	1674.9	1666.2	1483.7	1047.4	625.5	399.6	215.3	134.2	107.2	93.6	86.9
30°	1810.0	1762.7	1607.3	1113.0	592.7	344.6	179.6	120.7	98.5	84.0	79.2
32.5°	1891.1	1868.9	1672.0	1149.7	556.0	299.3	154.5	106.2	89.8	79.2	74.3
35°	2008.9	1964.5	1764.6	1172.9	536.7	273.2	139.0	96.5	75.3	64.7	58.9
37.5°	2140.1	2123.7	1875.6	1171.9	508.7	257.7	128.4	89.8	71.4	59.9	53.1
40°	2274.3	2207.7	1943.2	1198.9	494.3	246.2	120.7	85.9	67.6	57.0	48.3
42.5°	2374.7	2298.5	2021.4	1189.3	476.9	225.9	117.8	80.1	64.7	52.1	44.4
45°	2401.8	2374.7	2091.9	1186.4	464.3	209.5	112.9	79.2	62.7	49.2	41.5
47.5°	2453.9	2435.5	2178.8	1191.2	454.7	196.9	101.4	81.1	59.9	46.3	39.6
50°	2477.0	2444.2	2249.2	1202.8	432.5	181.5	90.7	84.9	58.9	45.4	37.6
52.5°	2572.6	2543.7	2345.8	1235.6	414.1	161.2	80.1	81.1	60.8	42.5	35.7
55°	2666.3	2633.4	2494.4	1310.9	388.1	144.8	68.5	71.4	57.9	38.6	31.9
57.5°	2794.6	2740.6	2593.9	1341.8	364.9	122.6	60.8	58.9	54.1	34.8	28.0
60°	2814.0	2836.2	2579.4	1322.5	340.8	108.1	53.1	45.4	57.9	30.9	24.1
62.5°	2878.6	2786.0	2511.8	1278.1	323.4	99.4	47.3	37.6	50.2	27.0	20.3
65°	2754.1	2685.6	2353.5	1135.2	301.2	100.4	41.5	30.9	31.9	22.2	16.4
67.5°	2571.7	2517.6	2090.9	979.8	279.0	98.5	36.7	27.0	24.1	19.3	14.5
70°	2257.0	2140.1	1776.2	795.4	246.2	91.7	30.9	24.1	20.3	15.4	10.6
72.5°	1642.0	1594.7	1274.2	614.9	221.1	83.0	29.0	20.3	17.4	11.6	8.7
75°	1105.3	1027.1	804.1	403.5	177.6	72.4	24.1	18.3	13.5	8.7	6.8
77.5°	584.0	552.2	455.6	192.1	98.5	33.8	13.5	10.6	7.7	6.8	3.9
80°	252.9	224.9	196.9	78.2	34.8	15.4	8.7	5.8	4.8	3.9	1.9
82.5°	129.4	123.6	102.3	33.8	20.3	11.6	4.8	3.9	2.9	1.9	1.0
85°	63.7	65.6	54.1	10.6	11.6	6.8	1.0	1.0	0.0	0.0	0.0
87.5°	4.8	4.8	3.9	1.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
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°	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8
2.5°	1198.0	1211.5	1188.3	1202.8	1196.1	1198.9	1201.8	1194.1	1196.1	1223.1	1224.0
5°	959.5	985.6	976.0	989.5	1012.6	1001.1	1011.7	1009.7	1011.7	1015.5	1032.9
7.5°	684.4	676.7	695.0	730.8	772.3	797.4	784.8	778.1	774.2	764.5	776.1
10°	516.5	512.6	507.8	518.4	545.4	573.4	588.9	562.8	548.3	530.0	523.2
12.5°	428.6	404.5	391.0	374.5	382.3	407.4	408.3	383.2	360.1	350.4	361.0
15°	337.9	321.5	297.3	274.2	262.6	281.9	265.5	241.3	211.4	207.5	206.6
17.5°	241.3	231.7	214.3	204.7	191.1	186.3	168.9	132.3	111.0	105.2	107.2
20°	164.1	156.4	155.4	146.7	140.9	137.1	109.1	84.9	78.2	79.2	80.1
22.5°	121.6	117.8	112.9	112.0	107.2	102.3	80.1	71.4	66.6	66.6	69.5
25°	99.4	97.5	92.7	90.7	88.8	82.1	67.6	60.8	58.9	57.0	59.9
27.5°	84.9	84.0	81.1	78.2	76.3	69.5	58.9	53.1	51.2	51.2	51.2
30°	76.3	76.3	72.4	66.6	66.6	58.9	50.2	46.3	44.4	44.4	43.4
32.5°	71.4	69.5	64.7	60.8	57.9	50.2	44.4	40.5	37.6	37.6	38.6
35°	57.9	57.9	57.0	54.1	50.2	42.5	37.6	33.8	31.9	30.9	31.9
37.5°	51.2	48.3	44.4	45.4	43.4	36.7	31.9	29.0	26.1	26.1	26.1
40°	46.3	43.4	39.6	36.7	35.7	32.8	28.0	23.2	20.3	19.3	19.3
42.5°	41.5	39.6	33.8	29.0	28.0	28.0	21.2	17.4	14.5	14.5	14.5
45°	38.6	35.7	30.9	25.1	20.3	21.2	17.4	12.5	10.6	9.7	9.7
47.5°	36.7	33.8	27.0	21.2	15.4	15.4	12.5	8.7	6.8	5.8	5.8
50°	33.8	30.9	24.1	17.4	11.6	9.7	7.7	4.8	2.9	1.9	1.9
52.5°	31.9	29.0	21.2	14.5	9.7	6.8	4.8	1.0	0.0	0.0	0.0
55°	29.0	25.1	18.3	11.6	7.7	3.9	1.0	0.0	0.0	0.0	0.0
57.5°	25.1	22.2	14.5	8.7	4.8	1.0	0.0	0.0	0.0	0.0	0.0
60°	21.2	18.3	11.6	6.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17.4	15.4	8.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14.5	11.6	6.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.5	9.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.7	6.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.8	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8
2.5°	1227.9	1256.9	1283.9	1291.6	1312.9	1371.7	1371.7	1399.7	1449.9	1468.3	1472.1
5°	1035.8	1066.7	1072.5	1132.3	1160.3	1220.2	1259.8	1354.4	1411.3	1447.0	1469.2
7.5°	787.7	798.3	820.5	876.5	931.5	1003.9	1079.2	1199.9	1300.3	1340.9	1416.1
10°	541.6	573.4	621.7	671.9	757.8	837.9	935.4	1049.3	1172.9	1223.1	1287.8
12.5°	364.9	409.3	486.5	558.0	637.1	718.2	810.9	963.4	1103.4	1172.9	1237.6
15°	213.3	267.4	334.0	449.8	555.1	645.8	738.5	892.9	1062.8	1152.6	1231.8
17.5°	108.1	124.5	179.6	279.9	419.0	567.6	705.7	902.6	1093.7	1203.8	1269.4
20°	81.1	85.9	101.4	148.7	286.7	469.2	674.8	917.1	1179.6	1313.8	1349.5
22.5°	70.5	74.3	81.1	96.5	161.2	359.1	631.3	952.8	1296.4	1422.9	1498.2
25°	59.9	63.7	69.5	79.2	103.3	244.2	578.2	990.4	1400.7	1560.0	1630.5
27.5°	52.1	55.0	60.8	68.5	84.0	155.4	486.5	1040.6	1560.0	1726.0	1744.4
30°	44.4	47.3	52.1	60.8	71.4	110.0	357.2	1047.4	1647.8	1798.4	1849.6
32.5°	38.6	39.6	45.4	53.1	59.9	86.9	251.0	1054.1	1712.5	1892.1	1902.7
35°	31.9	33.8	39.6	44.4	52.1	68.5	190.2	1020.4	1796.5	1988.6	1985.7
37.5°	26.1	29.0	32.8	36.7	42.5	57.9	151.6	957.6	1901.7	2138.2	2047.5
40°	20.3	23.2	27.0	31.9	35.7	52.1	113.9	863.0	2011.8	2211.6	2115.0
42.5°	14.5	16.4	20.3	25.1	31.9	43.4	82.1	751.0	2055.2	2297.5	2196.1
45°	10.6	12.5	15.4	21.2	32.8	34.8	57.0	648.7	2101.5	2335.1	2177.8
47.5°	5.8	7.7	11.6	18.3	29.0	26.1	40.5	557.0	2154.6	2368.9	2192.3
50°	1.9	2.9	6.8	19.3	23.2	20.3	31.9	507.8	2206.8	2375.7	2221.2
52.5°	0.0	0.0	3.9	20.3	17.4	15.4	28.0	488.5	2193.2	2396.9	2202.9
55°	0.0	0.0	1.0	8.7	9.7	11.6	23.2	487.5	2288.8	2403.7	2303.3
57.5°	0.0	0.0	0.0	2.9	5.8	9.7	20.3	456.6	2349.6	2571.7	2438.4
60°	0.0	0.0	0.0	1.0	3.9	6.8	15.4	429.6	2411.4	2646.9	2583.2
62.5°	0.0	0.0	0.0	0.0	1.0	2.9	10.6	388.1	2286.9	2641.2	2723.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	307.0	2057.1	2503.1	2646.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	212.4	1801.3	2329.4	2504.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.4	1453.8	2042.6	2123.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0	1037.7	1621.8	1742.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	641.9	1185.4	1334.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	416.1	897.8	1012.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	222.0	562.8	654.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.5	341.7	393.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	207.5	236.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.9	42.5
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°	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8	1368.8
2.5°	1474.1	1502.1	1512.7	1496.3	1498.2	1464.4	1459.6	1412.3	1393.0	1396.8
5°	1541.6	1582.2	1604.4	1586.0	1544.5	1479.9	1421.0	1365.0	1330.2	1312.9
7.5°	1526.2	1571.6	1599.6	1616.9	1569.6	1465.4	1375.6	1270.4	1226.0	1226.9
10°	1441.2	1535.8	1592.8	1570.6	1548.4	1444.1	1305.1	1191.2	1151.6	1155.5
12.5°	1372.7	1477.9	1511.7	1529.1	1483.7	1400.7	1307.1	1176.7	1132.3	1105.3
15°	1330.2	1408.4	1410.4	1437.4	1419.0	1419.0	1327.3	1199.9	1161.3	1131.4
17.5°	1330.2	1347.6	1345.7	1355.3	1386.2	1422.9	1378.5	1293.5	1217.3	1212.5
20°	1360.2	1306.1	1293.5	1297.4	1323.5	1432.6	1491.4	1385.3	1337.0	1321.5
22.5°	1429.7	1310.9	1234.7	1221.1	1301.3	1431.6	1563.8	1530.1	1446.1	1433.5
25°	1525.2	1302.2	1219.2	1201.8	1262.7	1466.3	1663.3	1670.0	1593.8	1567.7
27.5°	1616.0	1340.9	1217.3	1213.4	1293.5	1458.6	1731.8	1782.0	1696.1	1674.9
30°	1646.9	1379.5	1253.0	1201.8	1305.1	1486.6	1729.9	1861.2	1805.2	1810.0
32.5°	1683.5	1418.1	1256.9	1236.6	1354.4	1532.0	1784.9	1988.6	1948.0	1891.1
35°	1737.6	1470.2	1293.5	1275.2	1389.1	1572.5	1796.5	2082.2	2075.5	2008.9
37.5°	1783.9	1521.4	1369.8	1372.7	1495.3	1638.2	1847.7	2197.1	2185.5	2140.1
40°	1816.8	1592.8	1488.5	1496.3	1588.0	1711.5	1938.4	2255.0	2340.9	2274.3
42.5°	1821.6	1656.5	1624.7	1686.4	1772.4	1825.4	1975.1	2294.6	2418.2	2374.7
45°	1839.9	1757.9	1846.7	1892.1	1962.5	1925.8	1973.1	2362.2	2424.0	2401.8
47.5°	1911.4	1942.3	2054.2	2192.3	2217.4	2096.7	2019.5	2372.8	2456.8	2453.9
50°	1985.7	2140.1	2297.5	2389.2	2421.1	2214.5	2062.9	2364.1	2500.2	2477.0
52.5°	2068.7	2312.0	2538.8	2651.8	2634.4	2344.8	2112.2	2434.6	2580.3	2572.6
55°	2120.8	2389.2	2694.2	2851.6	2838.1	2490.6	2268.5	2535.9	2685.6	2666.3
57.5°	2258.9	2514.7	2848.7	2922.1	2957.8	2681.7	2377.6	2702.0	2773.4	2794.6
60°	2372.8	2596.8	2889.2	2995.4	3008.0	2795.6	2568.8	2872.8	2885.4	2814.0
62.5°	2539.8	2628.6	2803.3	2898.9	2963.6	2860.3	2740.6	2964.5	2883.5	2878.6
65°	2662.4	2524.4	2643.1	2696.2	2737.7	2761.8	2913.4	3027.3	2847.7	2754.1
67.5°	2593.9	2327.4	2305.2	2308.1	2320.7	2466.4	2855.5	2873.8	2648.9	2571.7
70°	2283.0	1909.4	1879.5	1902.7	1839.9	2015.6	2620.9	2612.2	2337.1	2257.0
72.5°	1846.7	1392.0	1340.9	1372.7	1387.2	1573.5	2204.8	1980.9	1704.8	1642.0
75°	1467.3	1020.4	861.1	938.3	987.5	1145.9	1722.2	1345.7	1190.3	1105.3
77.5°	1152.6	772.3	669.9	639.1	684.4	833.1	1253.0	706.6	623.6	584.0
80°	730.8	567.6	615.9	571.5	590.8	594.6	652.6	321.5	255.8	252.9
82.5°	440.2	388.1	461.4	253.9	462.4	413.2	271.3	145.8	129.4	129.4
85°	311.8	240.4	159.3	103.3	205.6	226.9	105.2	75.3	65.6	63.7
87.5°	156.4	74.3	35.7	23.2	26.1	42.5	12.5	5.8	5.8	4.8
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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