

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: P677498

Luminaire Tested: **CCW-SA-2A-840-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677498
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

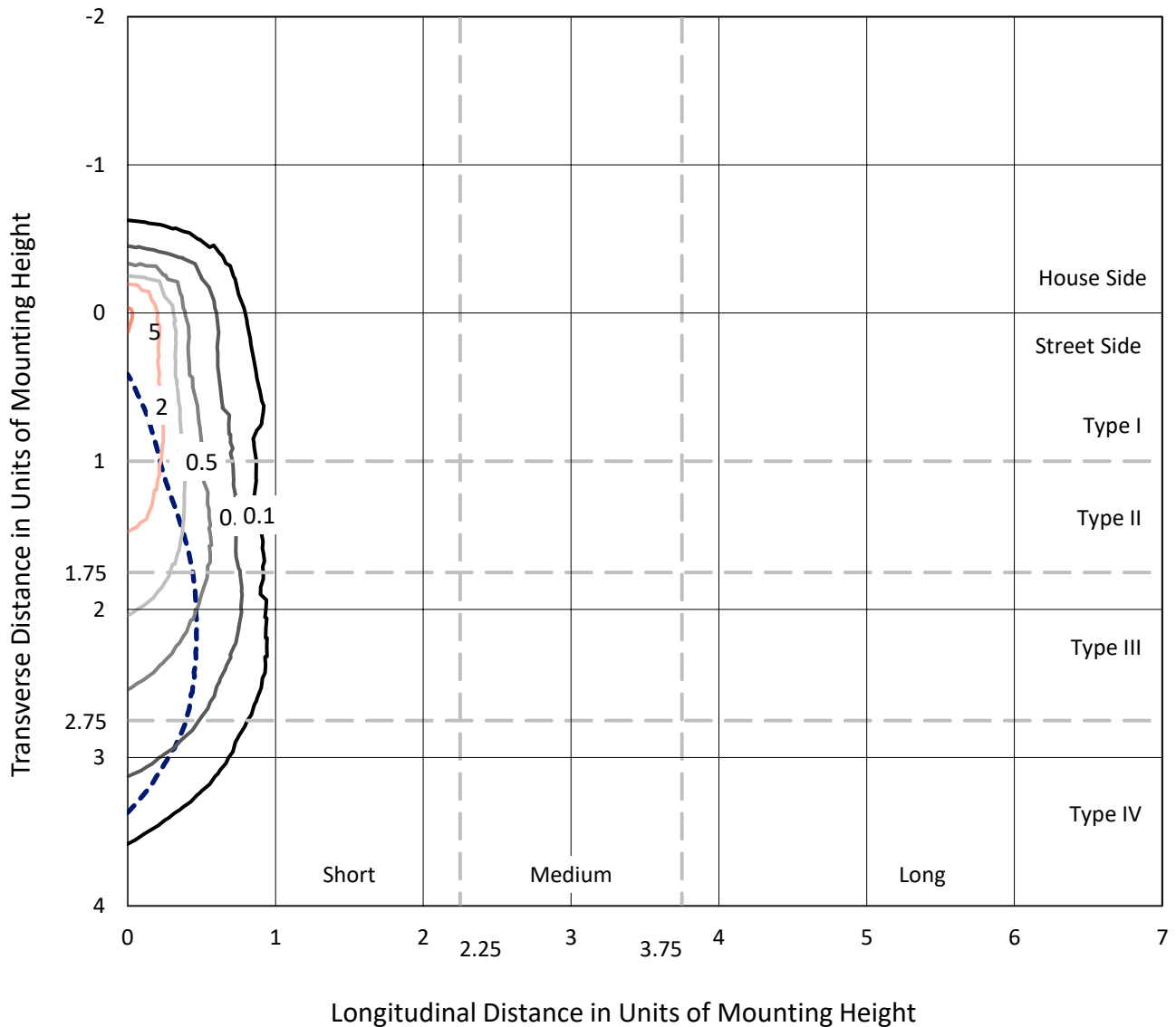
Lumens per Lamp: N/A
Luminaire Lumens: 3352.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

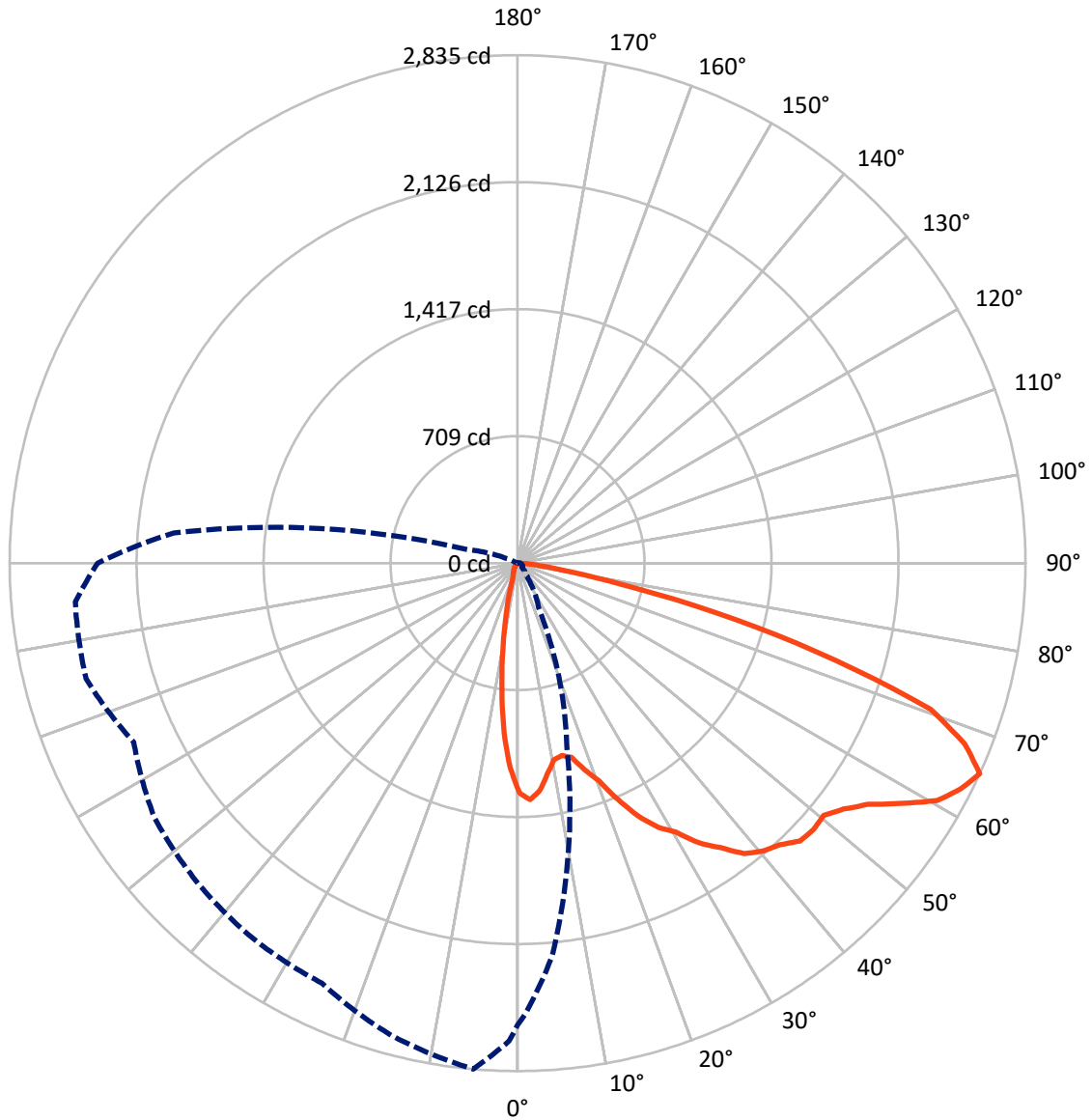
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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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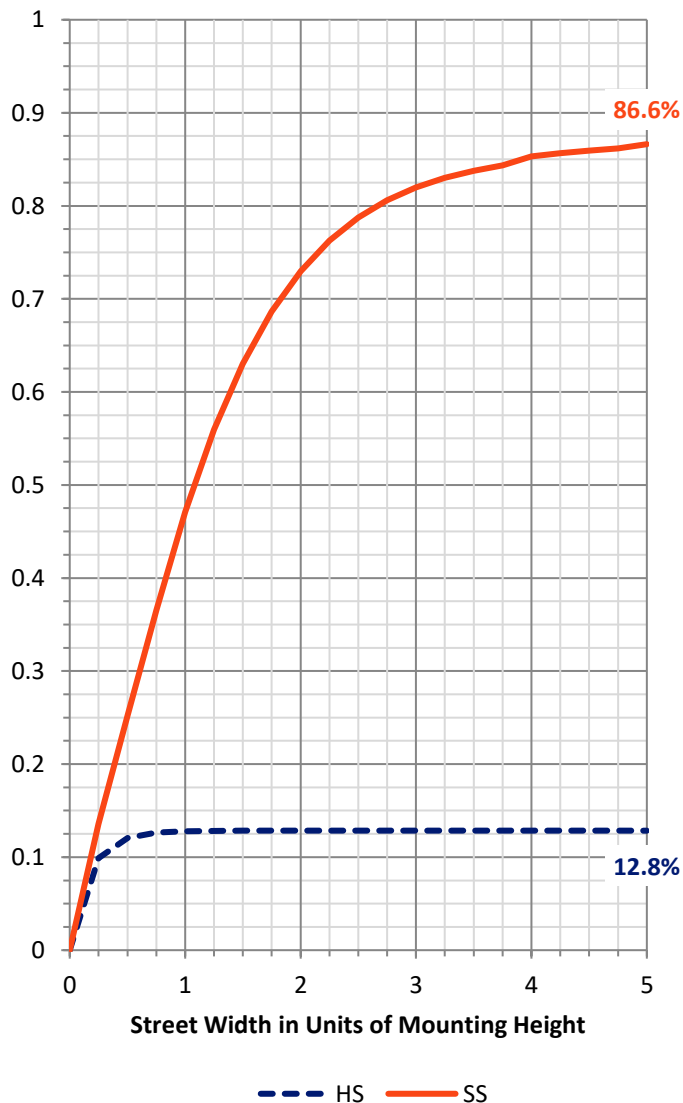
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	435.3	0.0	435.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2917.2	0.0	2917.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	3352.5	0.0	3352.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	2.9
10°-20°	188.0	5.6
20°-30°	261.8	7.8
30°-40°	372.0	11.1
40°-50°	515.9	15.4
50°-60°	702.9	21.0
60°-70°	772.8	23.1
70°-80°	379.8	11.3
80°-90°	62.0	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°	3352.5	100.0
0°-180°	3352.5	100.0



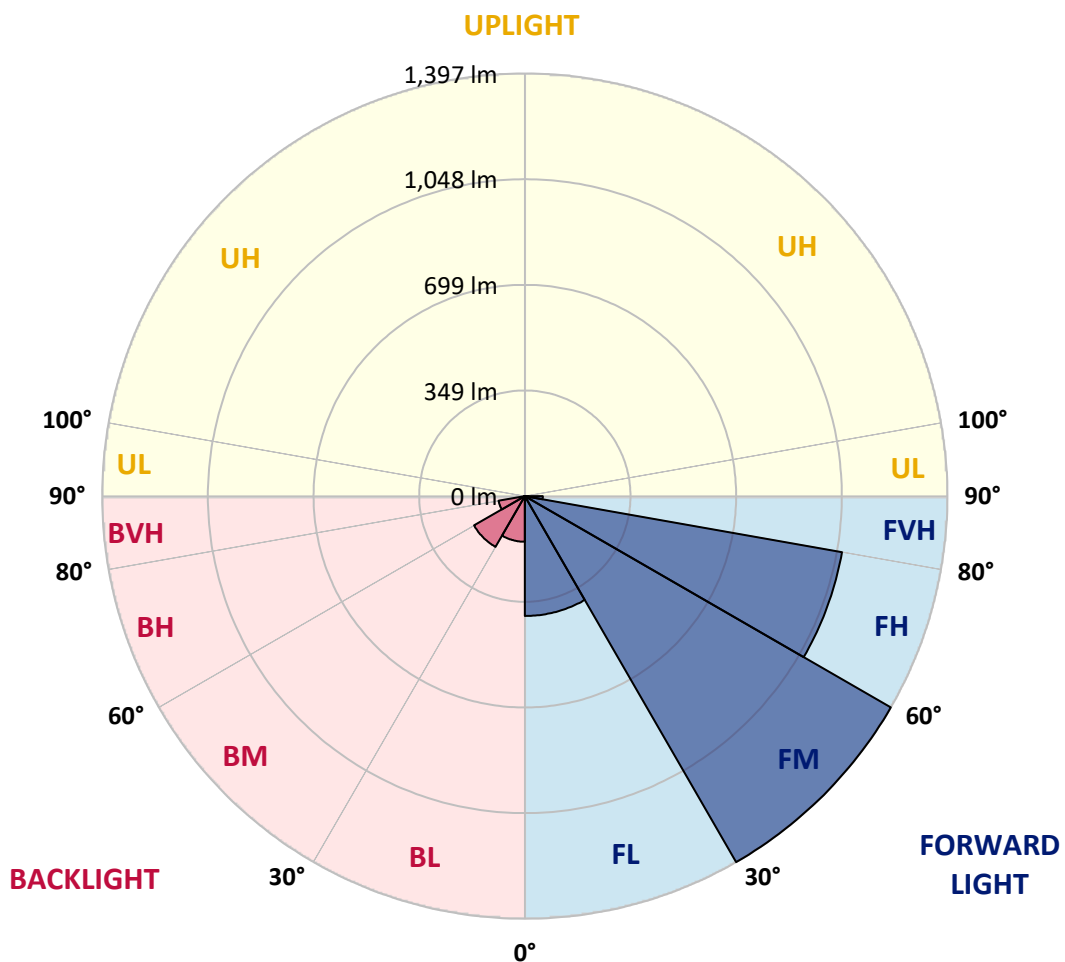
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.2	11.8			
FM (30°-60°)	1397.1	41.7			
FH (60°-80°)	1064.7	31.8			G1/1800
FVH (80°-90°)	59.2	1.8			G1/100
BL (0°-30°)	150.7	4.5	B1/500		
BM (30°-60°)	193.8	5.8	B0/220		
BH (60°-80°)	88.0	2.6	B0/110		G0/110
BVH (80°-90°)	2.8	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°	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7
2.5°	1307.9	1323.2	1308.8	1258.2	1249.1	1224.7	1187.7	1184.9	1146.1	1150.6	1129.8
5°	1229.2	1244.6	1213.9	1147.0	1084.6	1034.9	1005.1	951.8	940.0	913.8	913.8
7.5°	1148.8	1147.9	1095.5	1039.4	946.3	855.0	813.5	736.6	691.4	667.0	643.5
10°	1081.9	1067.4	1034.9	919.2	818.0	723.1	671.6	620.9	573.9	533.3	492.6
12.5°	1034.9	1043.9	992.4	866.8	735.7	669.8	614.6	561.3	505.3	459.2	414.0
15°	1059.3	1044.8	984.3	855.0	722.2	631.8	558.6	493.5	431.1	370.6	336.2
17.5°	1135.2	1098.2	1026.8	855.0	694.2	573.9	485.4	408.5	341.7	287.4	244.9
20°	1237.4	1194.9	1118.1	886.7	673.4	531.5	410.3	313.6	244.0	193.4	160.9
22.5°	1342.2	1308.8	1193.1	899.3	649.0	474.5	323.6	226.9	162.7	130.2	113.9
25°	1467.9	1420.9	1294.3	949.9	612.8	419.4	254.9	158.2	121.1	103.9	94.0
27.5°	1568.2	1560.0	1389.2	980.7	585.7	374.2	201.6	125.6	100.3	87.7	81.3
30°	1694.7	1650.4	1504.9	1042.1	555.0	322.7	168.1	113.0	92.2	78.6	74.1
32.5°	1770.6	1749.9	1565.5	1076.5	520.6	280.2	144.6	99.4	84.1	74.1	69.6
35°	1880.9	1839.3	1652.2	1098.2	502.5	255.8	130.2	90.4	70.5	60.6	55.1
37.5°	2003.8	1988.5	1756.2	1097.3	476.3	241.3	120.2	84.1	66.9	56.0	49.7
40°	2129.5	2067.1	1819.4	1122.6	462.8	230.5	113.0	80.4	63.3	53.3	45.2
42.5°	2223.5	2152.1	1892.7	1113.5	446.5	211.5	110.3	75.0	60.6	48.8	41.6
45°	2248.8	2223.5	1958.6	1110.8	434.8	196.1	105.8	74.1	58.8	46.1	38.9
47.5°	2297.6	2280.4	2040.0	1115.3	425.7	184.4	94.9	75.9	56.0	43.4	37.1
50°	2319.3	2288.5	2106.0	1126.2	404.9	169.9	85.0	79.5	55.1	42.5	35.3
52.5°	2408.8	2381.6	2196.4	1156.9	387.8	150.9	75.0	75.9	56.9	39.8	33.4
55°	2496.4	2465.7	2335.5	1227.4	363.3	135.6	64.2	66.9	54.2	36.2	29.8
57.5°	2616.6	2566.0	2428.6	1256.3	341.7	114.8	56.9	55.1	50.6	32.5	26.2
60°	2634.7	2655.5	2415.1	1238.3	319.1	101.2	49.7	42.5	54.2	28.9	22.6
62.5°	2695.3	2608.5	2351.8	1196.7	302.8	93.1	44.3	35.3	47.0	25.3	19.0
65°	2578.7	2514.5	2203.6	1062.9	282.0	94.0	38.9	28.9	29.8	20.8	15.4
67.5°	2407.9	2357.2	1957.7	917.4	261.2	92.2	34.3	25.3	22.6	18.1	13.6
70°	2113.2	2003.8	1663.1	744.8	230.5	85.9	28.9	22.6	19.0	14.5	9.9
72.5°	1537.4	1493.2	1193.1	575.8	207.0	77.7	27.1	19.0	16.3	10.8	8.1
75°	1034.9	961.7	752.9	377.8	166.3	67.8	22.6	17.2	12.7	8.1	6.3
77.5°	546.8	517.0	426.6	179.9	92.2	31.6	12.7	9.9	7.2	6.3	3.6
80°	236.8	210.6	184.4	73.2	32.5	14.5	8.1	5.4	4.5	3.6	1.8
82.5°	121.1	115.7	95.8	31.6	19.0	10.8	4.5	3.6	2.7	1.8	0.9
85°	59.7	61.5	50.6	9.9	10.8	6.3	0.9	0.9	0.0	0.0	0.0
87.5°	4.5	4.5	3.6	1.8	2.7	0.9	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°	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7
2.5°	1121.7	1134.3	1112.6	1126.2	1119.9	1122.6	1125.3	1118.1	1119.9	1145.2	1146.1
5°	898.4	922.8	913.8	926.4	948.1	937.3	947.2	945.4	947.2	950.8	967.1
7.5°	640.8	633.6	650.8	684.2	723.1	746.6	734.8	728.5	724.9	715.8	726.7
10°	483.6	479.9	475.4	485.4	510.7	536.9	551.3	526.9	513.4	496.2	489.9
12.5°	401.3	378.7	366.1	350.7	357.9	381.4	382.3	358.8	337.1	328.1	338.0
15°	316.3	301.0	278.4	256.7	245.8	263.9	248.6	226.0	197.9	194.3	193.4
17.5°	226.0	216.9	200.7	191.6	179.0	174.4	158.2	123.8	103.9	98.5	100.3
20°	153.7	146.4	145.5	137.4	132.0	128.3	102.1	79.5	73.2	74.1	75.0
22.5°	113.9	110.3	105.8	104.8	100.3	95.8	75.0	66.9	62.4	62.4	65.1
25°	93.1	91.3	86.8	85.0	83.2	76.8	63.3	56.9	55.1	53.3	56.0
27.5°	79.5	78.6	75.9	73.2	71.4	65.1	55.1	49.7	47.9	47.9	47.9
30°	71.4	71.4	67.8	62.4	62.4	55.1	47.0	43.4	41.6	41.6	40.7
32.5°	66.9	65.1	60.6	56.9	54.2	47.0	41.6	38.0	35.3	35.3	36.2
35°	54.2	54.2	53.3	50.6	47.0	39.8	35.3	31.6	29.8	28.9	29.8
37.5°	47.9	45.2	41.6	42.5	40.7	34.3	29.8	27.1	24.4	24.4	24.4
40°	43.4	40.7	37.1	34.3	33.4	30.7	26.2	21.7	19.0	18.1	18.1
42.5°	38.9	37.1	31.6	27.1	26.2	26.2	19.9	16.3	13.6	13.6	13.6
45°	36.2	33.4	28.9	23.5	19.0	19.9	16.3	11.8	9.9	9.0	9.0
47.5°	34.3	31.6	25.3	19.9	14.5	14.5	11.8	8.1	6.3	5.4	5.4
50°	31.6	28.9	22.6	16.3	10.8	9.0	7.2	4.5	2.7	1.8	1.8
52.5°	29.8	27.1	19.9	13.6	9.0	6.3	4.5	0.9	0.0	0.0	0.0
55°	27.1	23.5	17.2	10.8	7.2	3.6	0.9	0.0	0.0	0.0	0.0
57.5°	23.5	20.8	13.6	8.1	4.5	0.9	0.0	0.0	0.0	0.0	0.0
60°	19.9	17.2	10.8	6.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16.3	14.5	8.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13.6	10.8	6.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11.8	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.0	6.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.3	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.9	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°	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7
2.5°	1149.7	1176.8	1202.1	1209.3	1229.2	1284.4	1284.4	1310.6	1357.6	1374.8	1378.4
5°	969.8	998.8	1004.2	1060.2	1086.4	1142.5	1179.5	1268.1	1321.4	1354.9	1375.7
7.5°	737.5	747.5	768.3	820.7	872.2	940.0	1010.5	1123.5	1217.5	1255.4	1325.9
10°	507.1	536.9	582.1	629.1	709.5	784.5	875.8	982.5	1098.2	1145.2	1205.7
12.5°	341.7	383.2	455.5	522.4	596.5	672.5	759.2	902.0	1033.1	1098.2	1158.7
15°	199.8	250.4	312.7	421.2	519.7	604.7	691.4	836.1	995.1	1079.2	1153.3
17.5°	101.2	116.6	168.1	262.1	392.3	531.5	660.7	845.1	1024.1	1127.1	1188.6
20°	75.9	80.4	94.9	139.2	268.4	439.3	631.8	858.7	1104.5	1230.1	1263.6
22.5°	66.0	69.6	75.9	90.4	150.9	336.2	591.1	892.1	1213.9	1332.3	1402.8
25°	56.0	59.7	65.1	74.1	96.7	228.7	541.4	927.3	1311.5	1460.6	1526.6
27.5°	48.8	51.5	56.9	64.2	78.6	145.5	455.5	974.3	1460.6	1616.1	1633.3
30°	41.6	44.3	48.8	56.9	66.9	103.0	334.4	980.7	1542.9	1683.9	1731.8
32.5°	36.2	37.1	42.5	49.7	56.0	81.3	235.0	987.0	1603.4	1771.5	1781.5
35°	29.8	31.6	37.1	41.6	48.8	64.2	178.1	955.4	1682.1	1861.9	1859.2
37.5°	24.4	27.1	30.7	34.3	39.8	54.2	141.9	896.6	1780.6	2002.0	1917.1
40°	19.0	21.7	25.3	29.8	33.4	48.8	106.7	808.0	1883.6	2070.7	1980.3
42.5°	13.6	15.4	19.0	23.5	29.8	40.7	76.8	703.2	1924.3	2151.2	2056.3
45°	9.9	11.8	14.5	19.9	30.7	32.5	53.3	607.4	1967.7	2186.4	2039.1
47.5°	5.4	7.2	10.8	17.2	27.1	24.4	38.0	521.5	2017.4	2218.0	2052.6
50°	1.8	2.7	6.3	18.1	21.7	19.0	29.8	475.4	2066.2	2224.4	2079.8
52.5°	0.0	0.0	3.6	19.0	16.3	14.5	26.2	457.3	2053.5	2244.3	2062.6
55°	0.0	0.0	0.9	8.1	9.0	10.8	21.7	456.4	2143.0	2250.6	2156.6
57.5°	0.0	0.0	0.0	2.7	5.4	9.0	19.0	427.5	2200.0	2407.9	2283.1
60°	0.0	0.0	0.0	0.9	3.6	6.3	14.5	402.2	2257.8	2478.4	2418.7
62.5°	0.0	0.0	0.0	0.0	0.9	2.7	9.9	363.3	2141.2	2472.9	2549.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	287.4	1926.1	2343.7	2477.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	198.8	1686.6	2181.0	2344.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.2	1361.2	1912.5	1988.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.5	971.6	1518.5	1631.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	601.1	1109.9	1249.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	389.6	840.6	948.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	207.9	526.9	612.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.4	320.0	368.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	194.3	221.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.8	39.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7
2.5°	1380.2	1406.4	1416.3	1401.0	1402.8	1371.1	1366.6	1322.3	1304.3	1307.9
5°	1443.4	1481.4	1502.2	1485.0	1446.2	1385.6	1330.5	1278.0	1245.5	1229.2
7.5°	1429.0	1471.5	1497.7	1513.9	1469.7	1372.0	1288.0	1189.5	1147.9	1148.8
10°	1349.4	1438.0	1491.4	1470.6	1449.8	1352.2	1222.0	1115.3	1078.3	1081.9
12.5°	1285.3	1383.8	1415.4	1431.7	1389.2	1311.5	1223.8	1101.8	1060.2	1034.9
15°	1245.5	1318.7	1320.5	1345.8	1328.7	1328.7	1242.8	1123.5	1087.3	1059.3
17.5°	1245.5	1261.8	1260.0	1269.0	1297.9	1332.3	1290.7	1211.2	1139.8	1135.2
20°	1273.5	1222.9	1211.2	1214.8	1239.2	1341.3	1396.4	1297.0	1251.8	1237.4
22.5°	1338.6	1227.4	1156.0	1143.4	1218.4	1340.4	1464.2	1432.6	1354.0	1342.2
25°	1428.1	1219.3	1141.6	1125.3	1182.2	1372.9	1557.3	1563.7	1492.3	1467.9
27.5°	1513.0	1255.4	1139.8	1136.1	1211.2	1365.7	1621.5	1668.5	1588.1	1568.2
30°	1542.0	1291.6	1173.2	1125.3	1222.0	1391.9	1619.7	1742.6	1690.2	1694.7
32.5°	1576.3	1327.8	1176.8	1157.8	1268.1	1434.4	1671.2	1861.9	1824.0	1770.6
35°	1626.9	1376.6	1211.2	1194.0	1300.6	1472.4	1682.1	1949.6	1943.3	1880.9
37.5°	1670.3	1424.5	1282.6	1285.3	1400.1	1533.8	1730.0	2057.2	2046.3	2003.8
40°	1701.0	1491.4	1393.7	1401.0	1486.8	1602.5	1814.9	2111.4	2191.8	2129.5
42.5°	1705.6	1551.0	1521.2	1579.0	1659.5	1709.2	1849.3	2148.4	2264.1	2223.5
45°	1722.7	1645.9	1729.1	1771.5	1837.5	1803.2	1847.5	2211.7	2269.6	2248.8
47.5°	1789.6	1818.5	1923.4	2052.6	2076.1	1963.2	1890.9	2221.7	2300.3	2297.6
50°	1859.2	2003.8	2151.2	2237.0	2266.9	2073.4	1931.5	2213.5	2341.0	2319.3
52.5°	1936.9	2164.7	2377.1	2482.9	2466.6	2195.4	1977.6	2279.5	2416.0	2408.8
55°	1985.8	2237.0	2522.6	2670.0	2657.3	2331.9	2124.0	2374.4	2514.5	2496.4
57.5°	2115.0	2354.5	2667.3	2735.9	2769.4	2510.9	2226.2	2529.9	2596.8	2616.6
60°	2221.7	2431.4	2705.2	2804.6	2816.4	2617.5	2405.1	2689.9	2701.6	2634.7
62.5°	2378.0	2461.2	2624.8	2714.3	2774.8	2678.1	2566.0	2775.7	2699.8	2695.3
65°	2492.8	2363.6	2474.7	2524.4	2563.3	2585.9	2727.8	2834.5	2666.4	2578.7
67.5°	2428.6	2179.2	2158.4	2161.1	2172.9	2309.3	2673.6	2690.8	2480.2	2407.9
70°	2137.6	1787.8	1759.8	1781.5	1722.7	1887.2	2453.9	2445.8	2188.2	2113.2
72.5°	1729.1	1303.3	1255.4	1285.3	1298.8	1473.3	2064.4	1854.7	1596.2	1537.4
75°	1373.9	955.4	806.2	878.5	924.6	1072.9	1612.5	1260.0	1114.4	1034.9
77.5°	1079.2	723.1	627.3	598.3	640.8	780.0	1173.2	661.6	583.9	546.8
80°	684.2	531.5	576.7	535.1	553.2	556.8	611.0	301.0	239.5	236.8
82.5°	412.2	363.3	432.0	237.7	432.9	386.8	254.0	136.5	121.1	121.1
85°	291.9	225.1	149.1	96.7	192.5	212.4	98.5	70.5	61.5	59.7
87.5°	146.4	69.6	33.4	21.7	24.4	39.8	11.8	5.4	5.4	4.5
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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