

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: P677396

Luminaire Tested: **CCW-SA-1D-727-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677396
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-727-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3351.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

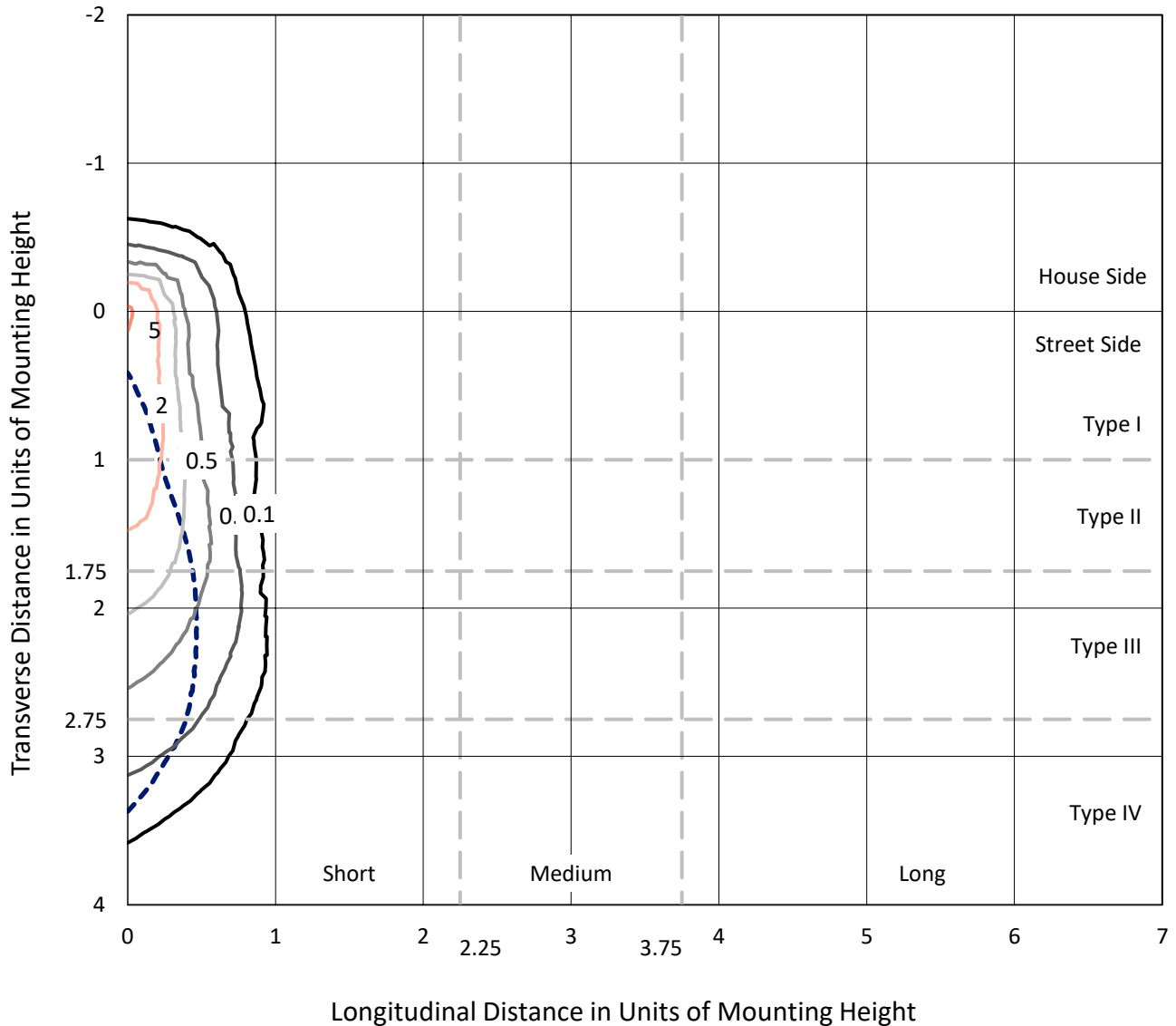
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

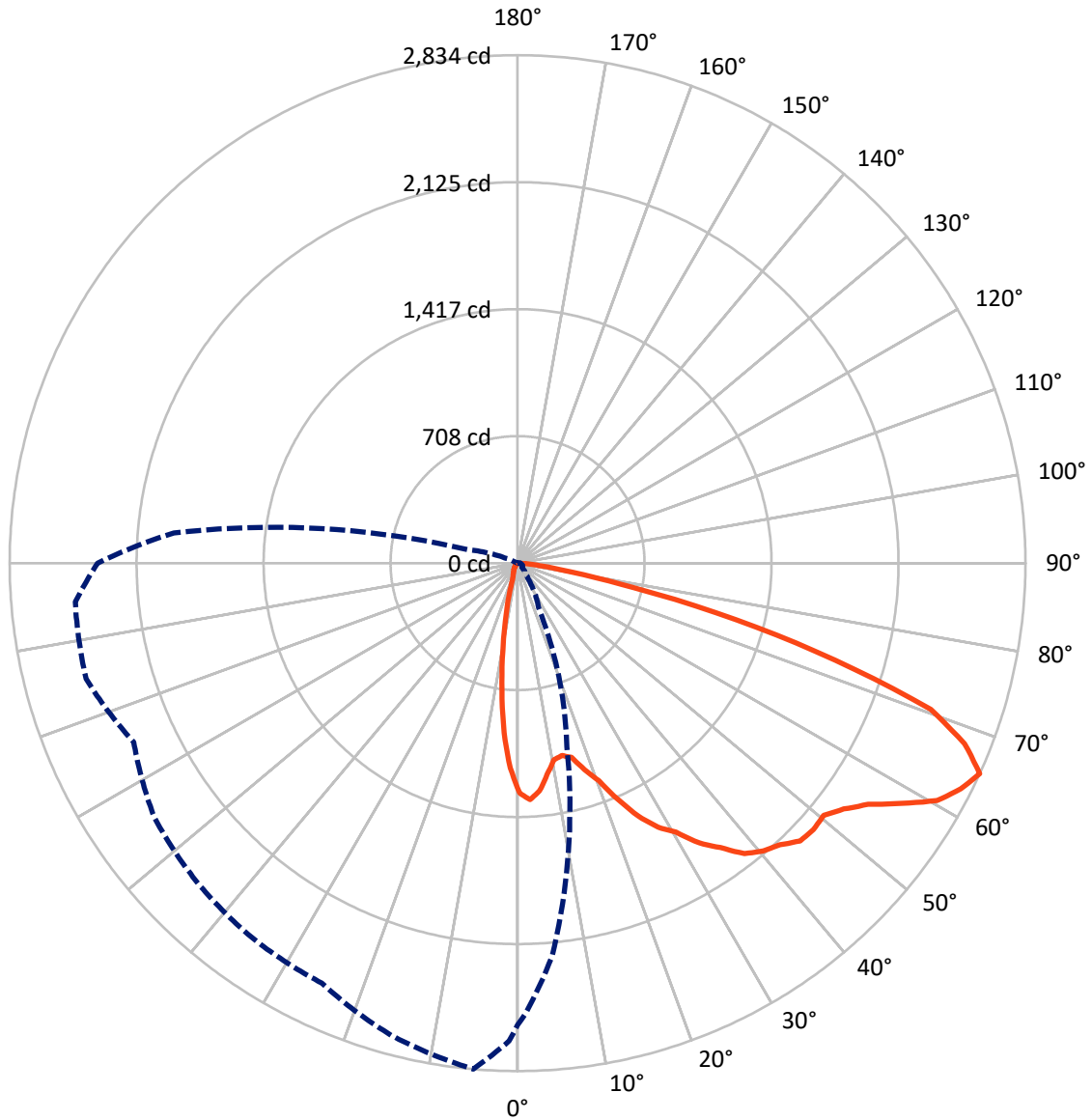
× Max cd
 - - - 1/2 Max cd



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	435.2	0.0	435.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2916.5	0.0	2916.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	3351.7	0.0	3351.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	2.9
10°-20°	187.9	5.6
20°-30°	261.8	7.8
30°-40°	371.9	11.1
40°-50°	515.8	15.4
50°-60°	702.8	21.0
60°-70°	772.6	23.1
70°-80°	379.7	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°	3351.7	100.0
0°-180°	3351.7	100.0



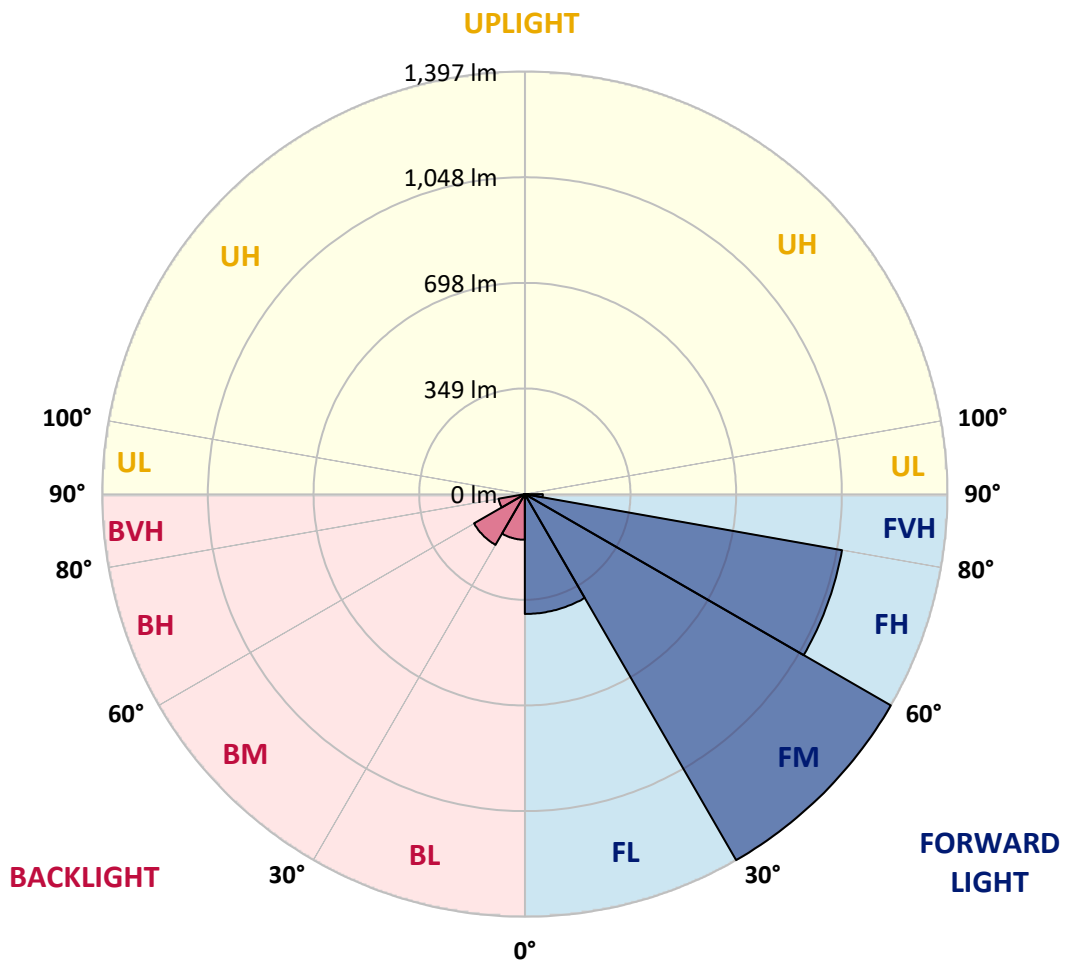
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.1	11.8			
FM (30°-60°)	1396.7	41.7			
FH (60°-80°)	1064.4	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°)	193.7	5.8	B0/220		
BH (60°-80°)	87.9	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°	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1307.5	1322.9	1308.4	1257.8	1248.8	1224.4	1187.4	1184.7	1145.8	1150.3	1129.5
5°	1228.9	1244.3	1213.6	1146.7	1084.3	1034.7	1004.8	951.5	939.8	913.6	913.6
7.5°	1148.5	1147.6	1095.2	1039.2	946.1	854.8	813.3	736.5	691.3	666.9	643.4
10°	1081.6	1067.2	1034.7	919.0	817.8	722.9	671.4	620.8	573.8	533.1	492.5
12.5°	1034.7	1043.7	992.2	866.6	735.6	669.6	614.5	561.2	505.1	459.0	413.9
15°	1059.0	1044.6	984.0	854.8	722.0	631.6	558.4	493.4	431.0	370.5	336.1
17.5°	1135.0	1097.9	1026.5	854.8	694.0	573.8	485.2	408.4	341.6	287.4	244.9
20°	1237.1	1194.6	1117.8	886.5	673.2	531.3	410.2	313.6	244.0	193.4	160.8
22.5°	1341.9	1308.4	1192.8	899.1	648.8	474.4	323.5	226.8	162.7	130.1	113.9
25°	1467.5	1420.5	1294.0	949.7	612.7	419.3	254.8	158.1	121.1	103.9	94.0
27.5°	1567.8	1559.7	1388.9	980.4	585.5	374.1	201.5	125.6	100.3	87.7	81.3
30°	1694.3	1650.0	1504.5	1041.9	554.8	322.6	168.1	113.0	92.2	78.6	74.1
32.5°	1770.2	1749.4	1565.1	1076.2	520.5	280.1	144.6	99.4	84.0	74.1	69.6
35°	1880.4	1838.9	1651.8	1097.9	502.4	255.7	130.1	90.4	70.5	60.5	55.1
37.5°	2003.3	1988.0	1755.7	1097.0	476.2	241.3	120.2	84.0	66.9	56.0	49.7
40°	2128.9	2066.6	1819.0	1122.3	462.7	230.4	113.0	80.4	63.3	53.3	45.2
42.5°	2222.9	2151.5	1892.2	1113.3	446.4	211.4	110.2	75.0	60.5	48.8	41.6
45°	2248.2	2222.9	1958.2	1110.6	434.6	196.1	105.7	74.1	58.7	46.1	38.9
47.5°	2297.0	2279.8	2039.5	1115.1	425.6	184.3	94.9	75.9	56.0	43.4	37.0
50°	2318.7	2288.0	2105.4	1125.9	404.8	169.9	84.9	79.5	55.1	42.5	35.2
52.5°	2408.2	2381.1	2195.8	1156.6	387.7	150.9	75.0	75.9	56.9	39.8	33.4
55°	2495.8	2465.1	2335.0	1227.1	363.3	135.5	64.2	66.9	54.2	36.1	29.8
57.5°	2616.0	2565.4	2428.0	1256.0	341.6	114.8	56.9	55.1	50.6	32.5	26.2
60°	2634.1	2654.8	2414.5	1238.0	319.0	101.2	49.7	42.5	54.2	28.9	22.6
62.5°	2694.6	2607.9	2351.2	1196.4	302.7	93.1	44.3	35.2	47.0	25.3	19.0
65°	2578.0	2513.9	2203.0	1062.7	281.9	94.0	38.9	28.9	29.8	20.8	15.4
67.5°	2407.3	2356.7	1957.3	917.2	261.1	92.2	34.3	25.3	22.6	18.1	13.6
70°	2112.7	2003.3	1662.7	744.6	230.4	85.8	28.9	22.6	19.0	14.5	9.9
72.5°	1537.1	1492.8	1192.8	575.6	206.9	77.7	27.1	19.0	16.3	10.8	8.1
75°	1034.7	961.5	752.7	377.7	166.3	67.8	22.6	17.2	12.7	8.1	6.3
77.5°	546.7	516.9	426.5	179.8	92.2	31.6	12.7	9.9	7.2	6.3	3.6
80°	236.7	210.5	184.3	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°	59.6	61.4	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°	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1121.4	1134.0	1112.4	1125.9	1119.6	1122.3	1125.0	1117.8	1119.6	1144.9	1145.8
5°	898.2	922.6	913.6	926.2	947.9	937.1	947.0	945.2	947.0	950.6	966.9
7.5°	640.7	633.4	650.6	684.0	722.9	746.4	734.6	728.3	724.7	715.7	726.5
10°	483.4	479.8	475.3	485.2	510.5	536.8	551.2	526.8	513.3	496.1	489.8
12.5°	401.2	378.6	366.0	350.6	357.8	381.3	382.2	358.7	337.1	328.0	338.0
15°	316.3	300.9	278.3	256.6	245.8	263.9	248.5	225.9	197.9	194.3	193.4
17.5°	225.9	216.9	200.6	191.6	178.9	174.4	158.1	123.8	103.9	98.5	100.3
20°	153.6	146.4	145.5	137.4	131.9	128.3	102.1	79.5	73.2	74.1	75.0
22.5°	113.9	110.2	105.7	104.8	100.3	95.8	75.0	66.9	62.4	62.4	65.1
25°	93.1	91.3	86.7	84.9	83.1	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	60.5	56.9	54.2	47.0	41.6	38.0	35.2	35.2	36.1
35°	54.2	54.2	53.3	50.6	47.0	39.8	35.2	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	37.0	34.3	33.4	30.7	26.2	21.7	19.0	18.1	18.1
42.5°	38.9	37.0	31.6	27.1	26.2	26.2	19.9	16.3	13.6	13.6	13.6
45°	36.1	33.4	28.9	23.5	19.0	19.9	16.3	11.7	9.9	9.0	9.0
47.5°	34.3	31.6	25.3	19.9	14.5	14.5	11.7	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°	11.7	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°	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1149.4	1176.5	1201.8	1209.0	1228.9	1284.1	1284.1	1310.3	1357.2	1374.4	1378.0
5°	969.6	998.5	1003.9	1060.0	1086.2	1142.2	1179.2	1267.8	1321.1	1354.5	1375.3
7.5°	737.4	747.3	768.1	820.5	872.0	939.8	1010.3	1123.2	1217.2	1255.1	1325.6
10°	506.9	536.8	581.9	628.9	709.3	784.3	875.6	982.2	1097.9	1144.9	1205.4
12.5°	341.6	383.1	455.4	522.3	596.4	672.3	759.0	901.8	1032.8	1097.9	1158.4
15°	199.7	250.3	312.7	421.1	519.6	604.5	691.3	835.9	994.9	1078.9	1153.0
17.5°	101.2	116.6	168.1	262.1	392.2	531.3	660.5	844.9	1023.8	1126.8	1188.3
20°	75.9	80.4	94.9	139.2	268.4	439.2	631.6	858.4	1104.2	1229.8	1263.3
22.5°	66.0	69.6	75.9	90.4	150.9	336.1	591.0	891.9	1213.6	1331.9	1402.4
25°	56.0	59.6	65.1	74.1	96.7	228.6	541.3	927.1	1311.2	1460.3	1526.2
27.5°	48.8	51.5	56.9	64.2	78.6	145.5	455.4	974.1	1460.3	1615.7	1632.8
30°	41.6	44.3	48.8	56.9	66.9	103.0	334.3	980.4	1542.5	1683.5	1731.3
32.5°	36.1	37.0	42.5	49.7	56.0	81.3	234.9	986.8	1603.0	1771.1	1781.0
35°	29.8	31.6	37.0	41.6	48.8	64.2	178.0	955.1	1681.6	1861.5	1858.8
37.5°	24.4	27.1	30.7	34.3	39.8	54.2	141.9	896.4	1780.1	2001.5	1916.6
40°	19.0	21.7	25.3	29.8	33.4	48.8	106.6	807.8	1883.2	2070.2	1979.8
42.5°	13.6	15.4	19.0	23.5	29.8	40.7	76.8	703.0	1923.8	2150.6	2055.7
45°	9.9	11.7	14.5	19.9	30.7	32.5	53.3	607.2	1967.2	2185.9	2038.6
47.5°	5.4	7.2	10.8	17.2	27.1	24.4	38.0	521.4	2016.9	2217.5	2052.1
50°	1.8	2.7	6.3	18.1	21.7	19.0	29.8	475.3	2065.7	2223.8	2079.2
52.5°	0.0	0.0	3.6	19.0	16.3	14.5	26.2	457.2	2053.0	2243.7	2062.1
55°	0.0	0.0	0.9	8.1	9.0	10.8	21.7	456.3	2142.5	2250.0	2156.0
57.5°	0.0	0.0	0.0	2.7	5.4	9.0	19.0	427.4	2199.4	2407.3	2282.6
60°	0.0	0.0	0.0	0.9	3.6	6.3	14.5	402.1	2257.3	2477.7	2418.1
62.5°	0.0	0.0	0.0	0.0	0.9	2.7	9.9	363.3	2140.7	2472.3	2549.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.3	287.4	1925.6	2343.1	2476.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	198.8	1686.2	2180.4	2344.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.2	1360.9	1912.1	1988.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.5	971.4	1518.1	1631.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	600.9	1109.7	1248.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	389.5	840.4	947.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	207.8	526.8	612.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.4	319.9	368.7
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°	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1379.8	1406.0	1416.0	1400.6	1402.4	1370.8	1366.3	1322.0	1303.9	1307.5
5°	1443.1	1481.0	1501.8	1484.7	1445.8	1385.3	1330.1	1277.7	1245.2	1228.9
7.5°	1428.6	1471.1	1497.3	1513.6	1469.3	1371.7	1287.7	1189.2	1147.6	1148.5
10°	1349.1	1437.7	1491.0	1470.2	1449.4	1351.8	1221.7	1115.1	1078.0	1081.6
12.5°	1285.0	1383.4	1415.1	1431.3	1388.9	1311.2	1223.5	1101.5	1060.0	1034.7
15°	1245.2	1318.4	1320.2	1345.5	1328.3	1328.3	1242.5	1123.2	1087.1	1059.0
17.5°	1245.2	1261.5	1259.7	1268.7	1297.6	1331.9	1290.4	1210.9	1139.5	1135.0
20°	1273.2	1222.6	1210.9	1214.5	1238.9	1341.0	1396.1	1296.7	1251.5	1237.1
22.5°	1338.3	1227.1	1155.7	1143.1	1218.1	1340.1	1463.9	1432.2	1353.6	1341.9
25°	1427.7	1219.0	1141.3	1125.0	1181.9	1372.6	1556.9	1563.3	1491.9	1467.5
27.5°	1512.7	1255.1	1139.5	1135.9	1210.9	1365.4	1621.1	1668.1	1587.7	1567.8
30°	1541.6	1291.3	1172.9	1125.0	1221.7	1391.6	1619.3	1742.2	1689.8	1694.3
32.5°	1575.9	1327.4	1176.5	1157.5	1267.8	1434.1	1670.8	1861.5	1823.5	1770.2
35°	1626.5	1376.2	1210.9	1193.7	1300.3	1472.0	1681.6	1949.1	1942.8	1880.4
37.5°	1669.9	1424.1	1282.2	1285.0	1399.7	1533.5	1729.5	2056.6	2045.8	2003.3
40°	1700.6	1491.0	1393.4	1400.6	1486.5	1602.1	1814.5	2110.9	2191.3	2128.9
42.5°	1705.1	1550.6	1520.8	1578.6	1659.1	1708.8	1848.8	2147.9	2263.6	2222.9
45°	1722.3	1645.5	1728.6	1771.1	1837.1	1802.7	1847.0	2211.2	2269.0	2248.2
47.5°	1789.2	1818.1	1922.9	2052.1	2075.6	1962.7	1890.4	2221.1	2299.7	2297.0
50°	1858.8	2003.3	2150.6	2236.5	2266.3	2072.9	1931.0	2213.0	2340.4	2318.7
52.5°	1936.5	2164.2	2376.5	2482.3	2466.0	2194.9	1977.1	2278.9	2415.4	2408.2
55°	1985.3	2236.5	2522.0	2669.3	2656.7	2331.4	2123.5	2373.8	2513.9	2495.8
57.5°	2114.5	2353.9	2666.6	2735.3	2768.7	2510.3	2225.6	2529.2	2596.1	2616.0
60°	2221.1	2430.8	2704.5	2803.9	2815.7	2616.9	2404.5	2689.2	2700.9	2634.1
62.5°	2377.4	2460.6	2624.1	2713.6	2774.1	2677.4	2565.4	2775.0	2699.1	2694.6
65°	2492.2	2363.0	2474.1	2523.8	2562.7	2585.3	2727.1	2833.8	2665.7	2578.0
67.5°	2428.0	2178.6	2157.9	2160.6	2172.3	2308.8	2672.9	2690.1	2479.5	2407.3
70°	2137.1	1787.4	1759.4	1781.0	1722.3	1886.8	2453.3	2445.2	2187.7	2112.7
72.5°	1728.6	1303.0	1255.1	1285.0	1298.5	1472.9	2063.9	1854.2	1595.8	1537.1
75°	1373.5	955.1	806.0	878.3	924.4	1072.6	1612.1	1259.7	1114.2	1034.7
77.5°	1078.9	722.9	627.1	598.2	640.7	779.8	1172.9	661.5	583.7	546.7
80°	684.0	531.3	576.5	534.9	553.0	556.6	610.9	300.9	239.5	236.7
82.5°	412.1	363.3	431.9	237.7	432.8	386.8	253.9	136.4	121.1	121.1
85°	291.9	225.0	149.1	96.7	192.5	212.4	98.5	70.5	61.4	59.6
87.5°	146.4	69.6	33.4	21.7	24.4	39.8	11.7	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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