

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: P677487

Luminaire Tested: **CCW-SA-2A-835-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677487
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

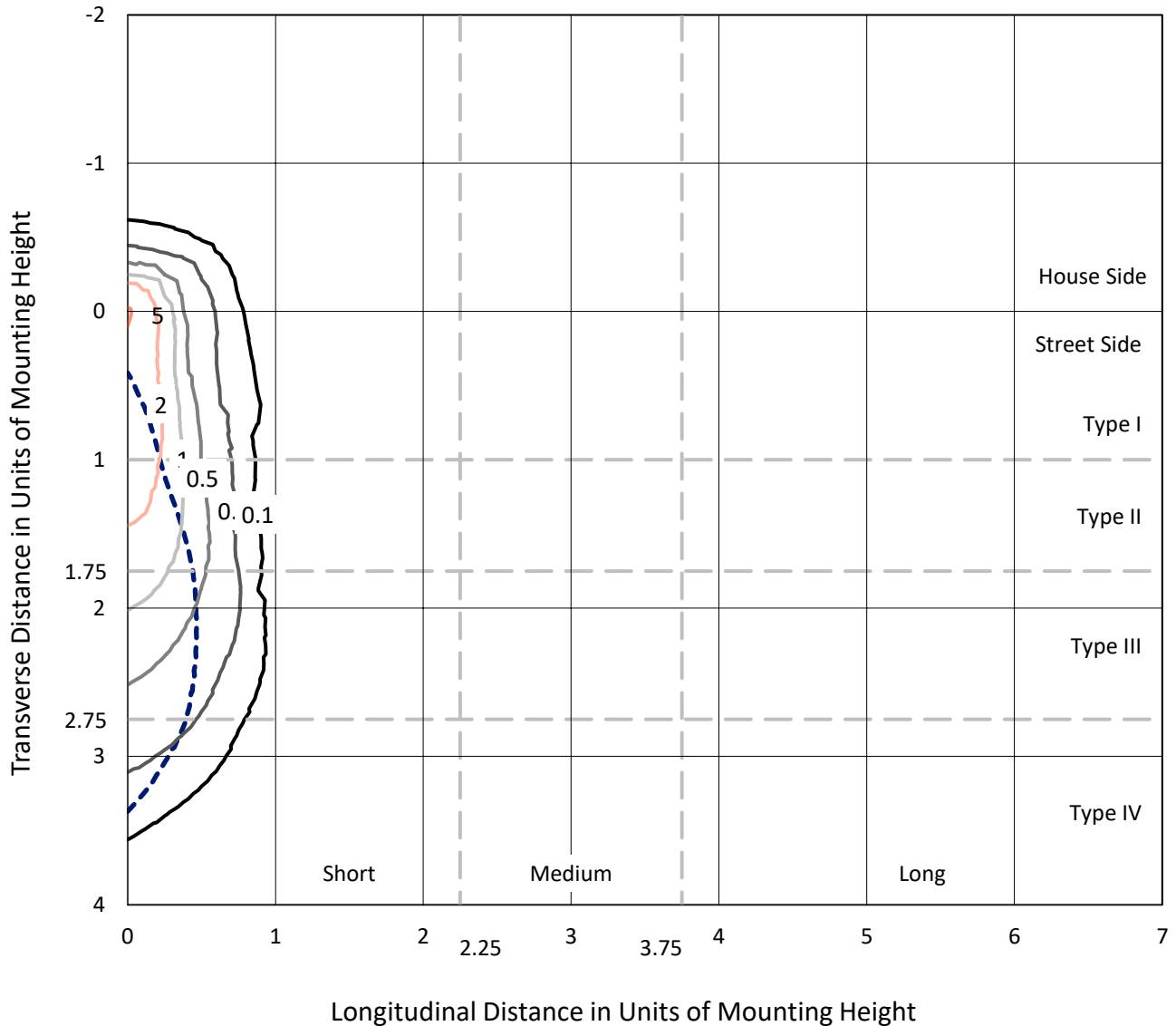
Lumens per Lamp: N/A
Luminaire Lumens: 3240 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

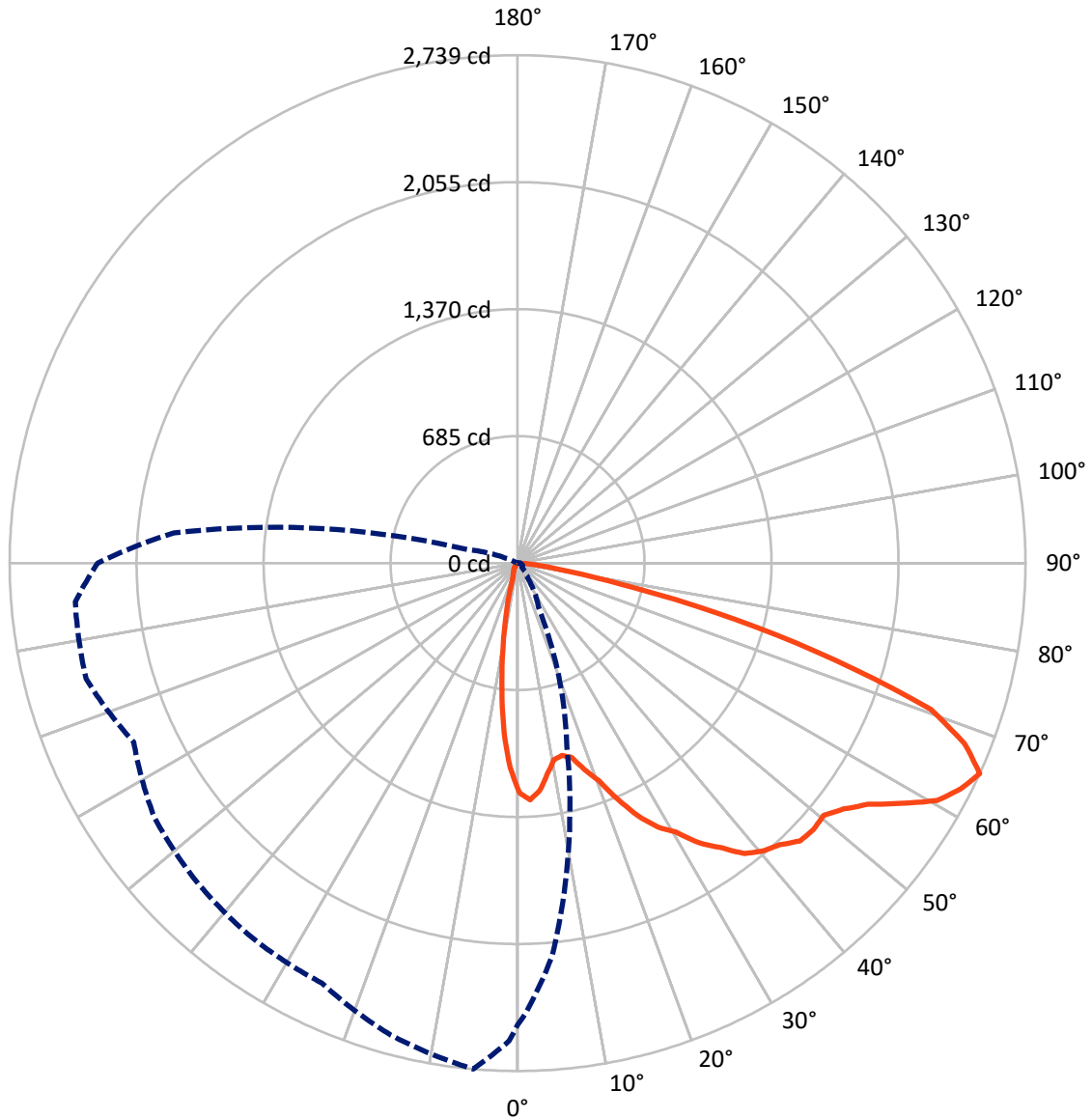
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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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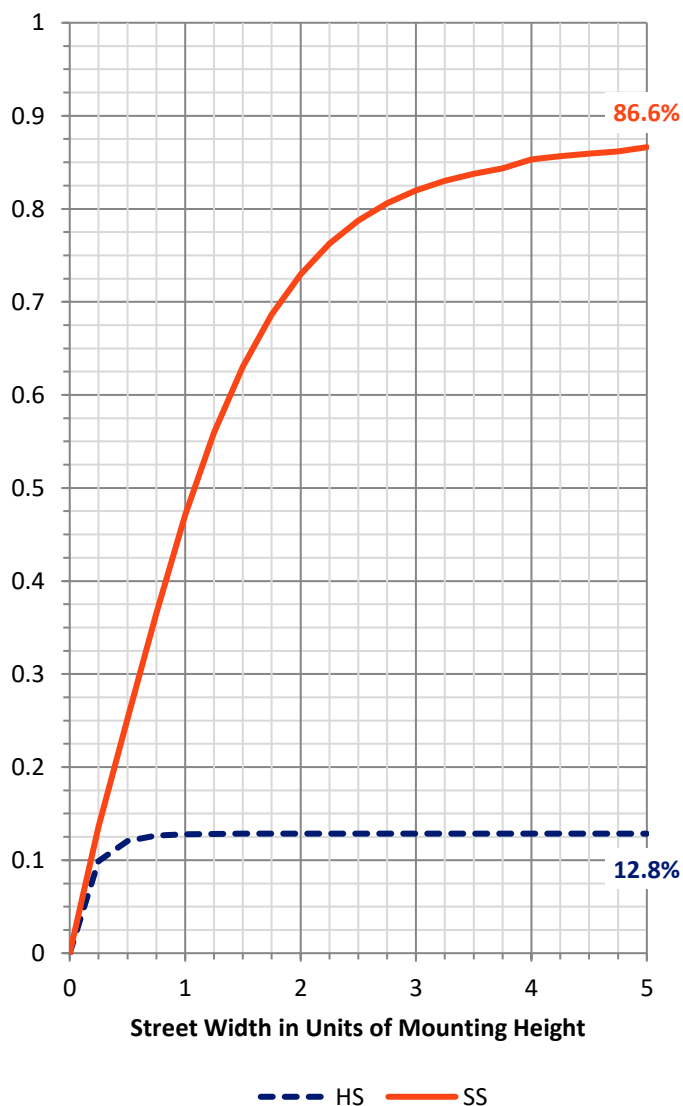
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	420.7	0.0	420.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2819.4	0.0	2819.4
	% Fixture	87.0	0.0	87.0
Total	Lumens	3240.0	0.0	3240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	2.9
10°-20°	181.7	5.6
20°-30°	253.0	7.8
30°-40°	359.6	11.1
40°-50°	498.6	15.4
50°-60°	679.4	21.0
60°-70°	746.9	23.1
70°-80°	367.1	11.3
80°-90°	59.9	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°	3240.0	100.0
0°-180°	3240.0	100.0

Coefficient of Utilization



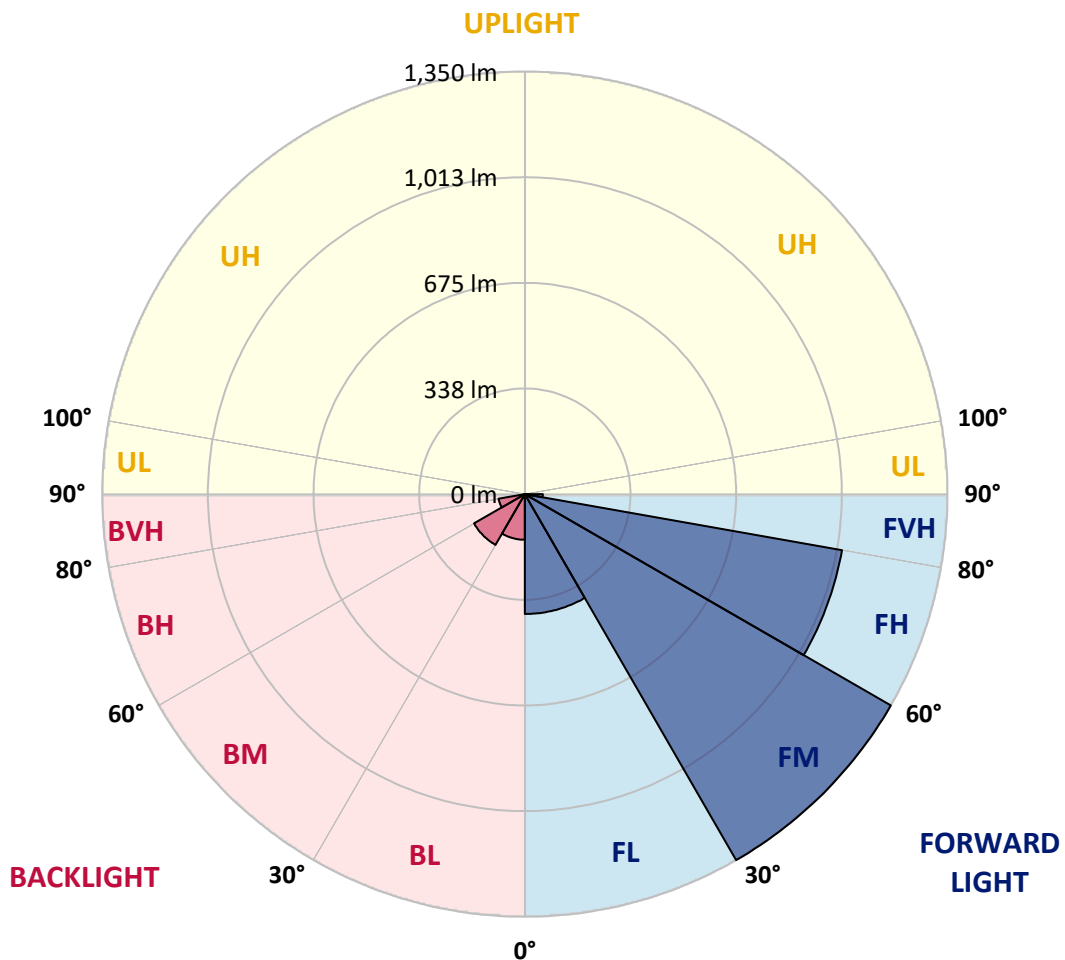
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.9	11.8			
FM (30°-60°)	1350.2	41.7			
FH (60°-80°)	1029.0	31.8			G1/1800
FVH (80°-90°)	57.2	1.8			G1/100
BL (0°-30°)	145.7	4.5	B1/500		
BM (30°-60°)	187.3	5.8	B0/220		
BH (60°-80°)	85.0	2.6	B0/110		G0/110
BVH (80°-90°)	2.7	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°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1264.0	1278.8	1264.9	1216.0	1207.2	1183.6	1147.8	1145.2	1107.6	1112.0	1091.9
5°	1188.0	1202.9	1173.2	1108.5	1048.2	1000.2	971.4	919.8	908.5	883.1	883.1
7.5°	1110.3	1109.4	1058.7	1004.6	914.6	826.4	786.2	711.9	668.3	644.7	622.0
10°	1045.6	1031.6	1000.2	888.4	790.5	698.8	649.0	600.1	554.7	515.4	476.1
12.5°	1000.2	1008.9	959.1	837.7	711.1	647.3	594.0	542.5	488.3	443.8	400.1
15°	1023.8	1009.8	951.3	826.4	698.0	610.6	539.8	476.9	416.7	358.1	325.0
17.5°	1097.2	1061.3	992.3	826.4	670.9	554.7	469.1	394.8	330.2	277.8	236.7
20°	1195.9	1154.8	1080.6	856.9	650.8	513.6	396.6	303.1	235.9	186.9	155.5
22.5°	1297.2	1264.9	1153.1	869.2	627.2	458.6	312.7	219.3	157.2	125.8	110.1
25°	1418.6	1373.2	1250.9	918.1	592.3	405.3	246.3	152.9	117.1	100.5	90.8
27.5°	1515.6	1507.7	1342.6	947.8	566.0	361.6	194.8	121.4	97.0	84.7	78.6
30°	1637.9	1595.1	1454.4	1007.2	536.3	311.9	162.5	109.2	89.1	76.0	71.6
32.5°	1711.2	1691.2	1513.0	1040.4	503.2	270.8	139.8	96.1	81.2	71.6	67.3
35°	1817.8	1777.6	1596.8	1061.3	485.7	247.2	125.8	87.4	68.1	58.5	53.3
37.5°	1936.6	1921.8	1697.3	1060.5	460.4	233.2	116.2	81.2	64.6	54.2	48.0
40°	2058.0	1997.8	1758.4	1084.9	447.2	222.8	109.2	77.7	61.1	51.5	43.7
42.5°	2148.9	2079.9	1829.2	1076.2	431.5	204.4	106.6	72.5	58.5	47.2	40.2
45°	2173.3	2148.9	1892.9	1073.6	420.2	189.6	102.2	71.6	56.8	44.6	37.6
47.5°	2220.5	2203.9	1971.6	1077.9	411.4	178.2	91.7	73.4	54.2	41.9	35.8
50°	2241.5	2211.8	2035.3	1088.4	391.3	164.2	82.1	76.9	53.3	41.1	34.1
52.5°	2328.0	2301.8	2122.7	1118.1	374.7	145.9	72.5	73.4	55.0	38.4	32.3
55°	2412.7	2383.0	2257.2	1186.3	351.2	131.0	62.0	64.6	52.4	34.9	28.8
57.5°	2528.9	2480.0	2347.2	1214.2	330.2	110.9	55.0	53.3	48.9	31.4	25.3
60°	2546.3	2566.4	2334.1	1196.7	308.4	97.8	48.0	41.1	52.4	28.0	21.8
62.5°	2604.9	2521.0	2272.9	1156.6	292.6	90.0	42.8	34.1	45.4	24.5	18.3
65°	2492.2	2430.2	2129.7	1027.3	272.5	90.8	37.6	28.0	28.8	20.1	14.9
67.5°	2327.1	2278.2	1892.1	886.6	252.5	89.1	33.2	24.5	21.8	17.5	13.1
70°	2042.3	1936.6	1607.3	719.8	222.8	83.0	28.0	21.8	18.3	14.0	9.6
72.5°	1485.9	1443.1	1153.1	556.4	200.0	75.1	26.2	18.3	15.7	10.5	7.9
75°	1000.2	929.4	727.7	365.1	160.7	65.5	21.8	16.6	12.2	7.9	6.1
77.5°	528.5	499.7	412.3	173.8	89.1	30.6	12.2	9.6	7.0	6.1	3.5
80°	228.9	203.5	178.2	70.8	31.4	14.0	7.9	5.2	4.4	3.5	1.7
82.5°	117.1	111.8	92.6	30.6	18.3	10.5	4.4	3.5	2.6	1.7	0.9
85°	57.7	59.4	48.9	9.6	10.5	6.1	0.9	0.9	0.0	0.0	0.0
87.5°	4.4	4.4	3.5	1.7	2.6	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°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1084.1	1096.3	1075.3	1088.4	1082.3	1084.9	1087.5	1080.6	1082.3	1106.8	1107.6
5°	868.3	891.9	883.1	895.4	916.3	905.9	915.5	913.7	915.5	919.0	934.7
7.5°	619.3	612.3	628.9	661.3	698.8	721.5	710.2	704.1	700.6	691.8	702.3
10°	467.3	463.8	459.5	469.1	493.5	518.9	532.9	509.3	496.2	479.6	473.5
12.5°	387.8	366.0	353.8	338.9	345.9	368.6	369.5	346.8	325.8	317.1	326.7
15°	305.7	290.9	269.0	248.1	237.6	255.1	240.2	218.4	191.3	187.8	186.9
17.5°	218.4	209.6	193.9	185.2	173.0	168.6	152.9	119.7	100.5	95.2	97.0
20°	148.5	141.5	140.6	132.8	127.5	124.0	98.7	76.9	70.8	71.6	72.5
22.5°	110.1	106.6	102.2	101.3	97.0	92.6	72.5	64.6	60.3	60.3	62.9
25°	90.0	88.2	83.9	82.1	80.4	74.3	61.1	55.0	53.3	51.5	54.2
27.5°	76.9	76.0	73.4	70.8	69.0	62.9	53.3	48.0	46.3	46.3	46.3
30°	69.0	69.0	65.5	60.3	60.3	53.3	45.4	41.9	40.2	40.2	39.3
32.5°	64.6	62.9	58.5	55.0	52.4	45.4	40.2	36.7	34.1	34.1	34.9
35°	52.4	52.4	51.5	48.9	45.4	38.4	34.1	30.6	28.8	28.0	28.8
37.5°	46.3	43.7	40.2	41.1	39.3	33.2	28.8	26.2	23.6	23.6	23.6
40°	41.9	39.3	35.8	33.2	32.3	29.7	25.3	21.0	18.3	17.5	17.5
42.5°	37.6	35.8	30.6	26.2	25.3	25.3	19.2	15.7	13.1	13.1	13.1
45°	34.9	32.3	28.0	22.7	18.3	19.2	15.7	11.4	9.6	8.7	8.7
47.5°	33.2	30.6	24.5	19.2	14.0	14.0	11.4	7.9	6.1	5.2	5.2
50°	30.6	28.0	21.8	15.7	10.5	8.7	7.0	4.4	2.6	1.7	1.7
52.5°	28.8	26.2	19.2	13.1	8.7	6.1	4.4	0.9	0.0	0.0	0.0
55°	26.2	22.7	16.6	10.5	7.0	3.5	0.9	0.0	0.0	0.0	0.0
57.5°	22.7	20.1	13.1	7.9	4.4	0.9	0.0	0.0	0.0	0.0	0.0
60°	19.2	16.6	10.5	6.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15.7	14.0	7.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13.1	10.5	6.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.7	6.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.1	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.6	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°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1111.1	1137.3	1161.8	1168.8	1188.0	1241.3	1241.3	1266.6	1312.0	1328.6	1332.1
5°	937.3	965.3	970.5	1024.7	1050.0	1104.1	1140.0	1225.6	1277.1	1309.4	1329.5
7.5°	712.8	722.4	742.5	793.2	843.0	908.5	976.6	1085.8	1176.6	1213.3	1281.5
10°	490.1	518.9	562.6	608.0	685.7	758.2	846.5	949.5	1061.3	1106.8	1165.3
12.5°	330.2	370.4	440.3	504.9	576.5	649.9	733.8	871.8	998.4	1061.3	1119.9
15°	193.1	242.0	302.2	407.1	502.3	584.4	668.3	808.0	961.8	1043.0	1114.6
17.5°	97.8	112.7	162.5	253.3	379.1	513.6	638.6	816.8	989.7	1089.3	1148.7
20°	73.4	77.7	91.7	134.5	259.4	424.5	610.6	829.9	1067.5	1188.9	1221.2
22.5°	63.8	67.3	73.4	87.4	145.9	325.0	571.3	862.2	1173.2	1287.6	1355.7
25°	54.2	57.7	62.9	71.6	93.5	221.0	523.2	896.2	1267.5	1411.6	1475.4
27.5°	47.2	49.8	55.0	62.0	76.0	140.6	440.3	941.7	1411.6	1561.9	1578.5
30°	40.2	42.8	47.2	55.0	64.6	99.6	323.2	947.8	1491.1	1627.4	1673.7
32.5°	34.9	35.8	41.1	48.0	54.2	78.6	227.1	953.9	1549.6	1712.1	1721.7
35°	28.8	30.6	35.8	40.2	47.2	62.0	172.1	923.3	1625.6	1799.5	1796.9
37.5°	23.6	26.2	29.7	33.2	38.4	52.4	137.1	866.5	1720.9	1934.9	1852.8
40°	18.3	21.0	24.5	28.8	32.3	47.2	103.1	780.9	1820.4	2001.3	1913.9
42.5°	13.1	14.9	18.3	22.7	28.8	39.3	74.3	679.6	1859.7	2079.0	1987.3
45°	9.6	11.4	14.0	19.2	29.7	31.4	51.5	587.0	1901.7	2113.1	1970.7
47.5°	5.2	7.0	10.5	16.6	26.2	23.6	36.7	504.0	1949.7	2143.6	1983.8
50°	1.7	2.6	6.1	17.5	21.0	18.3	28.8	459.5	1996.9	2149.8	2010.0
52.5°	0.0	0.0	3.5	18.3	15.7	14.0	25.3	442.0	1984.7	2169.0	1993.4
55°	0.0	0.0	0.9	7.9	8.7	10.5	21.0	441.1	2071.1	2175.1	2084.2
57.5°	0.0	0.0	0.0	2.6	5.2	8.7	18.3	413.2	2126.2	2327.1	2206.5
60°	0.0	0.0	0.0	0.9	3.5	6.1	14.0	388.7	2182.1	2395.2	2337.6
62.5°	0.0	0.0	0.0	0.0	0.9	2.6	9.6	351.2	2069.4	2390.0	2464.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	277.8	1861.5	2265.1	2394.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	192.2	1630.0	2107.8	2265.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.2	1315.5	1848.4	1921.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	939.0	1467.5	1576.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1	580.9	1072.7	1207.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	376.5	812.4	916.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	200.9	509.3	592.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.4	309.2	356.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	187.8	214.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	38.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1333.9	1359.2	1368.8	1354.0	1355.7	1325.1	1320.8	1278.0	1260.5	1264.0
5°	1395.0	1431.7	1451.8	1435.2	1397.6	1339.1	1285.8	1235.2	1203.7	1188.0
7.5°	1381.1	1422.1	1447.4	1463.2	1420.4	1326.0	1244.8	1149.6	1109.4	1110.3
10°	1304.2	1389.8	1441.3	1421.2	1401.1	1306.8	1181.0	1077.9	1042.1	1045.6
12.5°	1242.2	1337.4	1367.9	1383.7	1342.6	1267.5	1182.8	1064.8	1024.7	1000.2
15°	1203.7	1274.5	1276.2	1300.7	1284.1	1284.1	1201.1	1085.8	1050.9	1023.8
17.5°	1203.7	1219.4	1217.7	1226.4	1254.4	1287.6	1247.4	1170.5	1101.5	1097.2
20°	1230.8	1181.9	1170.5	1174.0	1197.6	1296.3	1349.6	1253.5	1209.8	1195.9
22.5°	1293.7	1186.3	1117.2	1105.0	1177.5	1295.4	1415.1	1384.5	1308.5	1297.2
25°	1380.2	1178.4	1103.3	1087.5	1142.6	1326.9	1505.1	1511.2	1442.2	1418.6
27.5°	1462.3	1213.3	1101.5	1098.0	1170.5	1319.9	1567.1	1612.5	1534.8	1515.6
30°	1490.2	1248.3	1133.8	1087.5	1181.0	1345.2	1565.4	1684.2	1633.5	1637.9
32.5°	1523.4	1283.2	1137.3	1119.0	1225.6	1386.3	1615.2	1799.5	1762.8	1711.2
35°	1572.4	1330.4	1170.5	1153.9	1257.0	1423.0	1625.6	1884.2	1878.1	1817.8
37.5°	1614.3	1376.7	1239.5	1242.2	1353.1	1482.4	1671.9	1988.2	1977.7	1936.6
40°	1644.0	1441.3	1347.0	1354.0	1437.0	1548.8	1754.0	2040.6	2118.3	2058.0
42.5°	1648.4	1499.0	1470.2	1526.1	1603.8	1651.8	1787.2	2076.4	2188.2	2148.9
45°	1664.9	1590.7	1671.1	1712.1	1775.9	1742.7	1785.5	2137.5	2193.4	2173.3
47.5°	1729.6	1757.5	1858.9	1983.8	2006.5	1897.3	1827.4	2147.1	2223.1	2220.5
50°	1796.9	1936.6	2079.0	2162.0	2190.8	2003.9	1866.7	2139.3	2262.4	2241.5
52.5°	1872.0	2092.1	2297.4	2399.6	2383.9	2121.8	1911.3	2203.0	2334.9	2328.0
55°	1919.1	2162.0	2438.0	2580.4	2568.2	2253.7	2052.8	2294.8	2430.2	2412.7
57.5°	2044.1	2275.5	2577.8	2644.2	2676.5	2426.7	2151.5	2445.0	2509.7	2528.9
60°	2147.1	2349.8	2614.5	2710.6	2721.9	2529.7	2324.5	2599.6	2611.0	2546.3
62.5°	2298.3	2378.6	2536.7	2623.2	2681.7	2588.3	2480.0	2682.6	2609.2	2604.9
65°	2409.2	2284.3	2391.7	2439.8	2477.3	2499.2	2636.3	2739.4	2576.9	2492.2
67.5°	2347.2	2106.1	2086.0	2088.6	2100.0	2231.9	2583.9	2600.5	2397.0	2327.1
70°	2065.9	1727.8	1700.8	1721.7	1664.9	1823.9	2371.6	2363.8	2114.8	2042.3
72.5°	1671.1	1259.6	1213.3	1242.2	1255.3	1423.9	1995.1	1792.5	1542.7	1485.9
75°	1327.8	923.3	779.2	849.1	893.6	1036.9	1558.4	1217.7	1077.1	1000.2
77.5°	1043.0	698.8	606.2	578.3	619.3	753.9	1133.8	639.4	564.3	528.5
80°	661.3	513.6	557.3	517.1	534.6	538.1	590.5	290.9	231.5	228.9
82.5°	398.3	351.2	417.5	229.7	418.4	373.9	245.5	131.9	117.1	117.1
85°	282.2	217.5	144.1	93.5	186.1	205.3	95.2	68.1	59.4	57.7
87.5°	141.5	67.3	32.3	21.0	23.6	38.4	11.4	5.2	5.2	4.4
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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