

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: P677462

Luminaire Tested: **CCW-SA-1D-827-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677462
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-827-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2946.1 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

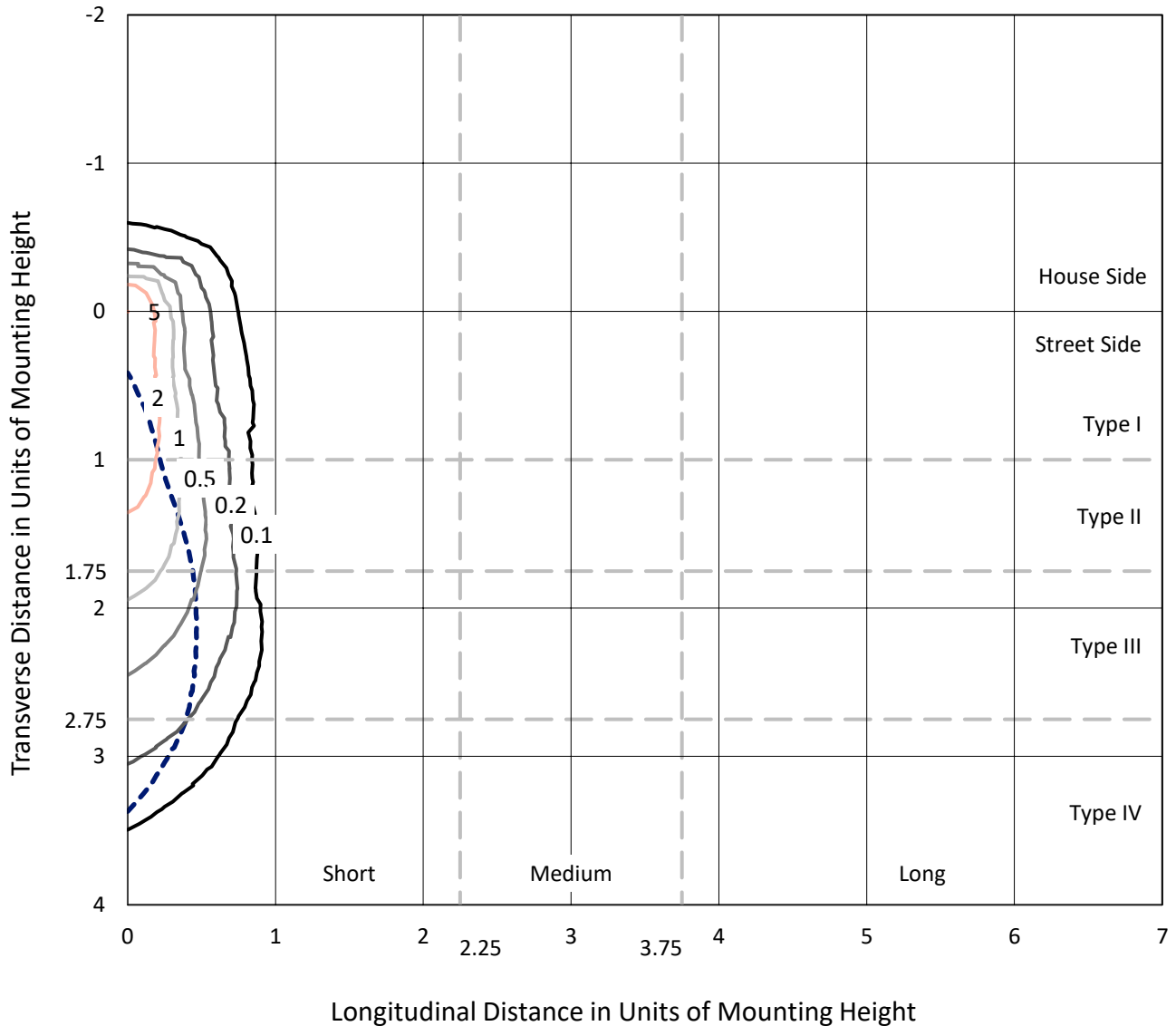
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

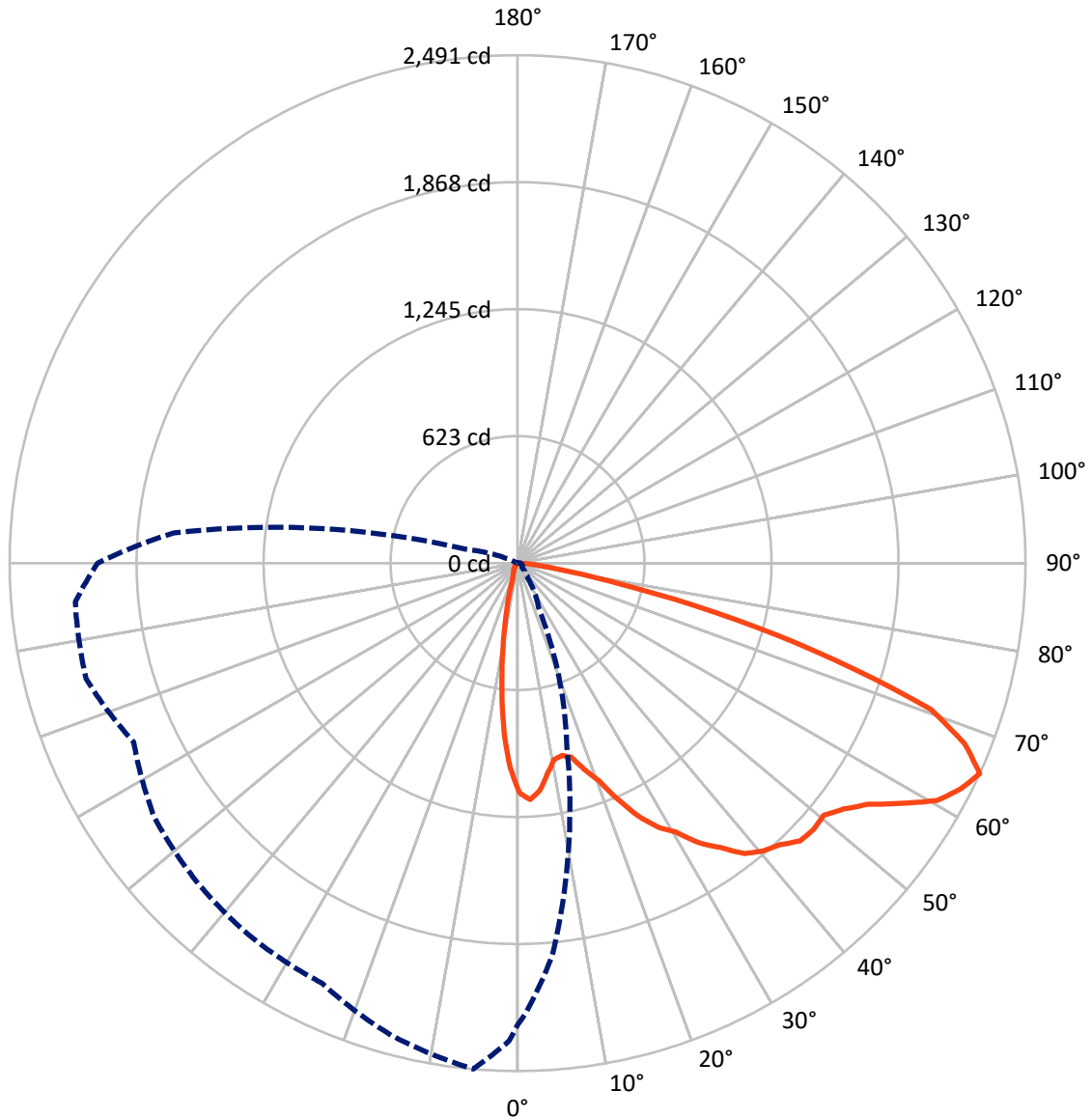
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 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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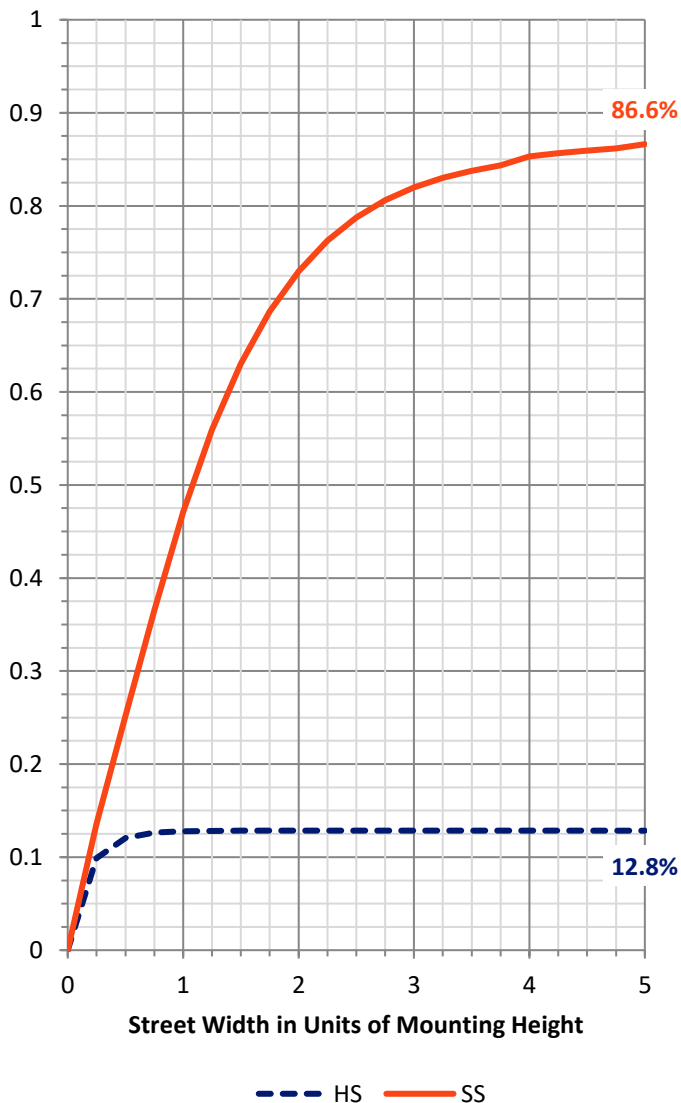
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.5	0.0	382.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2563.6	0.0	2563.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	2946.1	0.0	2946.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	2.9
10°-20°	165.2	5.6
20°-30°	230.1	7.8
30°-40°	326.9	11.1
40°-50°	453.4	15.4
50°-60°	617.7	21.0
60°-70°	679.1	23.1
70°-80°	333.8	11.3
80°-90°	54.5	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°	2946.1	100.0
0°-180°	2946.1	100.0



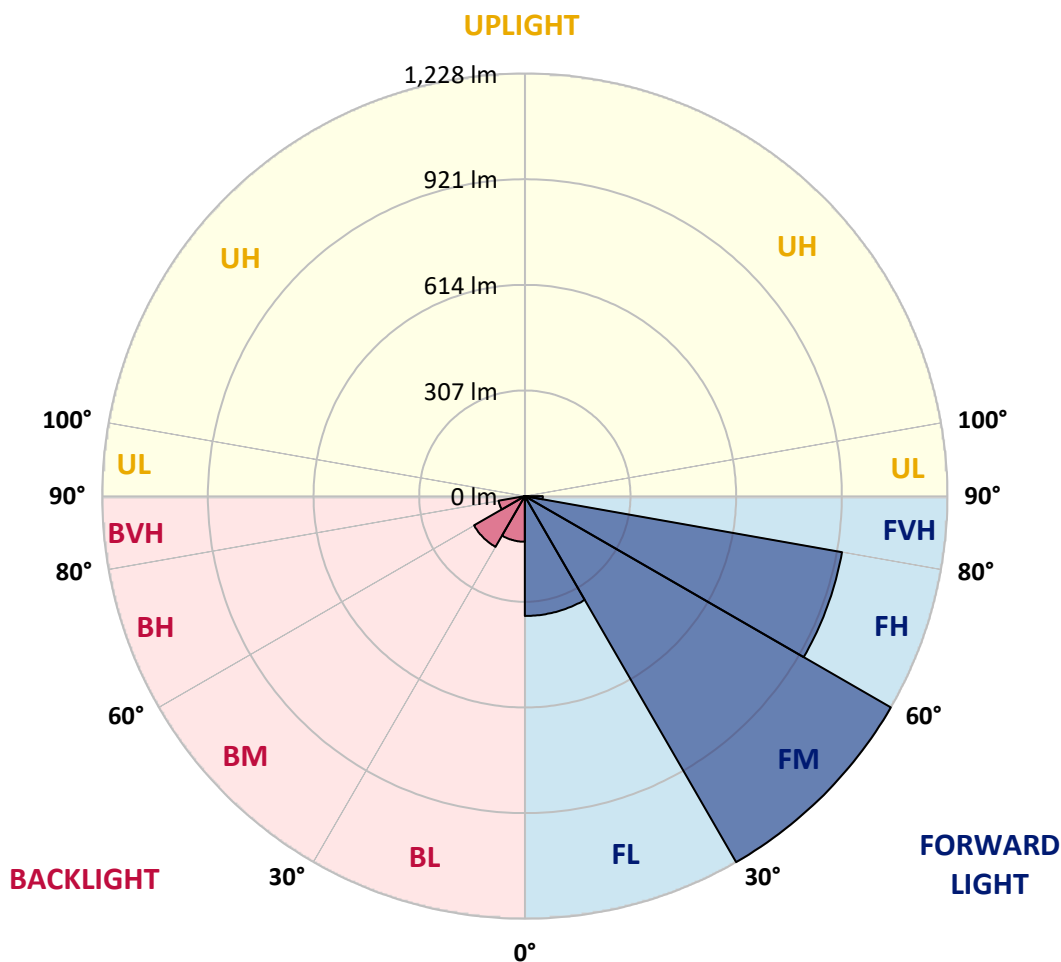
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.2	11.8			
FM (30°-60°)	1227.7	41.7			
FH (60°-80°)	935.6	31.8			G1/1800
FVH (80°-90°)	52.1	1.8			G1/100
BL (0°-30°)	132.4	4.5	B1/500		
BM (30°-60°)	170.3	5.8	B0/220		
BH (60°-80°)	77.3	2.6	B0/110		G0/110
BVH (80°-90°)	2.5	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°	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3
2.5°	1149.3	1162.8	1150.1	1105.6	1097.7	1076.2	1043.7	1041.3	1007.1	1011.1	992.8
5°	1080.2	1093.7	1066.7	1007.9	953.1	909.4	883.2	836.4	826.0	803.0	803.0
7.5°	1009.5	1008.7	962.7	913.4	831.6	751.4	714.8	647.3	607.6	586.2	565.5
10°	950.8	938.0	909.4	807.8	718.8	635.4	590.1	545.7	504.4	468.6	432.9
12.5°	909.4	917.4	872.1	761.7	646.5	588.6	540.1	493.2	444.0	403.5	363.8
15°	930.9	918.2	865.0	751.4	634.6	555.2	490.9	433.7	378.9	325.7	295.5
17.5°	997.6	965.0	902.3	751.4	610.0	504.4	426.5	359.0	300.2	252.6	215.2
20°	1087.4	1050.0	982.5	779.2	591.7	467.0	360.6	275.6	214.5	170.0	141.4
22.5°	1179.5	1150.1	1048.4	790.3	570.3	417.0	284.4	199.4	143.0	114.4	100.1
25°	1289.9	1248.6	1137.4	834.8	538.5	368.5	224.0	139.0	106.4	91.3	82.6
27.5°	1378.1	1370.9	1220.8	861.8	514.7	328.8	177.1	110.4	88.2	77.0	71.5
30°	1489.3	1450.4	1322.5	915.8	487.7	283.6	147.7	99.3	81.0	69.1	65.1
32.5°	1556.0	1537.7	1375.7	946.0	457.5	246.2	127.1	87.4	73.9	65.1	61.2
35°	1652.9	1616.4	1451.9	965.0	441.6	224.8	114.4	79.4	62.0	53.2	48.5
37.5°	1760.9	1747.4	1543.3	964.3	418.6	212.1	105.6	73.9	58.8	49.2	43.7
40°	1871.3	1816.5	1598.9	986.5	406.7	202.5	99.3	70.7	55.6	46.9	39.7
42.5°	1953.9	1891.2	1663.2	978.6	392.4	185.9	96.9	65.9	53.2	42.9	36.5
45°	1976.2	1953.9	1721.2	976.2	382.0	172.4	92.9	65.1	51.6	40.5	34.2
47.5°	2019.1	2004.0	1792.7	980.1	374.1	162.0	83.4	66.7	49.2	38.1	32.6
50°	2038.1	2011.1	1850.7	989.7	355.8	149.3	74.7	69.9	48.5	37.3	31.0
52.5°	2116.7	2092.9	1930.1	1016.7	340.7	132.6	65.9	66.7	50.0	34.9	29.4
55°	2193.8	2166.8	2052.4	1078.6	319.3	119.1	56.4	58.8	47.7	31.8	26.2
57.5°	2299.4	2255.0	2134.2	1104.0	300.2	100.9	50.0	48.5	44.5	28.6	23.0
60°	2315.3	2333.6	2122.3	1088.2	280.4	89.0	43.7	37.3	47.7	25.4	19.9
62.5°	2368.5	2292.3	2066.7	1051.6	266.1	81.8	38.9	31.0	41.3	22.2	16.7
65°	2266.1	2209.7	1936.4	934.1	247.8	82.6	34.2	25.4	26.2	18.3	13.5
67.5°	2116.0	2071.5	1720.4	806.2	229.5	81.0	30.2	22.2	19.9	15.9	11.9
70°	1857.0	1760.9	1461.5	654.5	202.5	75.5	25.4	19.9	16.7	12.7	8.7
72.5°	1351.1	1312.1	1048.4	506.0	181.9	68.3	23.8	16.7	14.3	9.5	7.1
75°	909.4	845.1	661.6	332.0	146.1	59.6	19.9	15.1	11.1	7.1	5.6
77.5°	480.5	454.3	374.9	158.1	81.0	27.8	11.1	8.7	6.4	5.6	3.2
80°	208.1	185.1	162.0	64.3	28.6	12.7	7.1	4.8	4.0	3.2	1.6
82.5°	106.4	101.7	84.2	27.8	16.7	9.5	4.0	3.2	2.4	1.6	0.8
85°	52.4	54.0	44.5	8.7	9.5	5.6	0.8	0.8	0.0	0.0	0.0
87.5°	4.0	4.0	3.2	1.6	2.4	0.8	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°	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3
2.5°	985.7	996.8	977.8	989.7	984.1	986.5	988.9	982.5	984.1	1006.3	1007.1
5°	789.5	811.0	803.0	814.1	833.2	823.7	832.4	830.8	832.4	835.6	849.9
7.5°	563.1	556.8	571.9	601.3	635.4	656.1	645.7	640.2	637.0	629.1	638.6
10°	424.9	421.8	417.8	426.5	448.8	471.8	484.5	463.1	451.1	436.1	430.5
12.5°	352.7	332.8	321.7	308.2	314.5	335.2	336.0	315.3	296.3	288.3	297.1
15°	278.0	264.5	244.6	225.6	216.0	231.9	218.4	198.6	173.9	170.8	170.0
17.5°	198.6	190.6	176.3	168.4	157.3	153.3	139.0	108.8	91.3	86.6	88.2
20°	135.0	128.7	127.9	120.7	116.0	112.8	89.8	69.9	64.3	65.1	65.9
22.5°	100.1	96.9	92.9	92.1	88.2	84.2	65.9	58.8	54.8	54.8	57.2
25°	81.8	80.2	76.3	74.7	73.1	67.5	55.6	50.0	48.5	46.9	49.2
27.5°	69.9	69.1	66.7	64.3	62.7	57.2	48.5	43.7	42.1	42.1	42.1
30°	62.7	62.7	59.6	54.8	54.8	48.5	41.3	38.1	36.5	36.5	35.7
32.5°	58.8	57.2	53.2	50.0	47.7	41.3	36.5	33.4	31.0	31.0	31.8
35°	47.7	47.7	46.9	44.5	41.3	34.9	31.0	27.8	26.2	25.4	26.2
37.5°	42.1	39.7	36.5	37.3	35.7	30.2	26.2	23.8	21.4	21.4	21.4
40°	38.1	35.7	32.6	30.2	29.4	27.0	23.0	19.1	16.7	15.9	15.9
42.5°	34.2	32.6	27.8	23.8	23.0	23.0	17.5	14.3	11.9	11.9	11.9
45°	31.8	29.4	25.4	20.7	16.7	17.5	14.3	10.3	8.7	7.9	7.9
47.5°	30.2	27.8	22.2	17.5	12.7	12.7	10.3	7.1	5.6	4.8	4.8
50°	27.8	25.4	19.9	14.3	9.5	7.9	6.4	4.0	2.4	1.6	1.6
52.5°	26.2	23.8	17.5	11.9	7.9	5.6	4.0	0.8	0.0	0.0	0.0
55°	23.8	20.7	15.1	9.5	6.4	3.2	0.8	0.0	0.0	0.0	0.0
57.5°	20.7	18.3	11.9	7.1	4.0	0.8	0.0	0.0	0.0	0.0	0.0
60°	17.5	15.1	9.5	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14.3	12.7	7.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11.9	9.5	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10.3	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.9	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.6	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	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°	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3
2.5°	1010.3	1034.1	1056.4	1062.7	1080.2	1128.7	1128.7	1151.7	1193.0	1208.1	1211.3
5°	852.3	877.7	882.4	931.7	954.7	1004.0	1036.5	1114.4	1161.2	1190.6	1208.9
7.5°	648.1	656.9	675.1	721.2	766.5	826.0	888.0	987.3	1069.9	1103.3	1165.2
10°	445.6	471.8	511.5	552.8	623.5	689.4	769.7	863.4	965.0	1006.3	1059.6
12.5°	300.2	336.8	400.3	459.1	524.2	590.9	667.2	792.7	907.9	965.0	1018.3
15°	175.5	220.0	274.8	370.1	456.7	531.4	607.6	734.7	874.5	948.4	1013.5
17.5°	89.0	102.5	147.7	230.3	344.7	467.0	580.6	742.6	899.9	990.5	1044.5
20°	66.7	70.7	83.4	122.3	235.9	386.0	555.2	754.6	970.6	1081.0	1110.4
22.5°	58.0	61.2	66.7	79.4	132.6	295.5	519.5	784.0	1066.7	1170.8	1232.7
25°	49.2	52.4	57.2	65.1	85.0	201.0	475.8	814.9	1152.5	1283.6	1341.5
27.5°	42.9	45.3	50.0	56.4	69.1	127.9	400.3	856.2	1283.6	1420.2	1435.3
30°	36.5	38.9	42.9	50.0	58.8	90.5	293.9	861.8	1355.8	1479.7	1521.8
32.5°	31.8	32.6	37.3	43.7	49.2	71.5	206.5	867.4	1409.0	1556.8	1565.5
35°	26.2	27.8	32.6	36.5	42.9	56.4	156.5	839.6	1478.2	1636.2	1633.8
37.5°	21.4	23.8	27.0	30.2	34.9	47.7	124.7	787.9	1564.7	1759.3	1684.7
40°	16.7	19.1	22.2	26.2	29.4	42.9	93.7	710.1	1655.3	1819.7	1740.3
42.5°	11.9	13.5	16.7	20.7	26.2	35.7	67.5	617.9	1691.0	1890.4	1807.0
45°	8.7	10.3	12.7	17.5	27.0	28.6	46.9	533.8	1729.1	1921.4	1791.9
47.5°	4.8	6.4	9.5	15.1	23.8	21.4	33.4	458.3	1772.8	1949.2	1803.8
50°	1.6	2.4	5.6	15.9	19.1	16.7	26.2	417.8	1815.7	1954.7	1827.6
52.5°	0.0	0.0	3.2	16.7	14.3	12.7	23.0	401.9	1804.6	1972.2	1812.5
55°	0.0	0.0	0.8	7.1	7.9	9.5	19.1	401.1	1883.2	1977.8	1895.1
57.5°	0.0	0.0	0.0	2.4	4.8	7.9	16.7	375.7	1933.3	2116.0	2006.3
60°	0.0	0.0	0.0	0.8	3.2	5.6	12.7	353.5	1984.1	2177.9	2125.5
62.5°	0.0	0.0	0.0	0.0	0.8	2.4	8.7	319.3	1881.6	2173.1	2240.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	252.6	1692.6	2059.6	2177.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	174.7	1482.1	1916.6	2060.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.6	1196.2	1680.7	1747.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3	853.8	1334.4	1433.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	528.2	975.4	1097.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	342.3	738.7	833.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	182.7	463.1	538.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.4	281.2	324.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4	170.8	194.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	34.9
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°	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3	1126.3
2.5°	1212.9	1235.9	1244.6	1231.1	1232.7	1204.9	1200.9	1162.0	1146.1	1149.3
5°	1268.5	1301.8	1320.1	1305.0	1270.8	1217.6	1169.2	1123.1	1094.5	1080.2
7.5°	1255.8	1293.1	1316.1	1330.4	1291.5	1205.7	1131.8	1045.3	1008.7	1009.5
10°	1185.9	1263.7	1310.6	1292.3	1274.0	1188.2	1073.9	980.1	947.6	950.8
12.5°	1129.5	1216.0	1243.8	1258.1	1220.8	1152.5	1075.5	968.2	931.7	909.4
15°	1094.5	1158.9	1160.4	1182.7	1167.6	1167.6	1092.1	987.3	955.5	930.9
17.5°	1094.5	1108.8	1107.2	1115.2	1140.6	1170.8	1134.2	1064.3	1001.6	997.6
20°	1119.1	1074.7	1064.3	1067.5	1089.0	1178.7	1227.2	1139.8	1100.1	1087.4
22.5°	1176.3	1078.6	1015.9	1004.8	1070.7	1177.9	1286.7	1258.9	1189.8	1179.5
25°	1255.0	1071.5	1003.2	988.9	1038.9	1206.5	1368.5	1374.1	1311.4	1289.9
27.5°	1329.6	1103.3	1001.6	998.4	1064.3	1200.2	1424.9	1466.2	1395.5	1378.1
30°	1355.0	1135.0	1031.0	988.9	1073.9	1223.2	1423.3	1531.4	1485.3	1489.3
32.5°	1385.2	1166.8	1034.1	1017.5	1114.4	1260.5	1468.6	1636.2	1602.9	1556.0
35°	1429.7	1209.7	1064.3	1049.2	1143.0	1293.9	1478.2	1713.3	1707.7	1652.9
37.5°	1467.8	1251.8	1127.1	1129.5	1230.3	1347.9	1520.2	1807.8	1798.2	1760.9
40°	1494.8	1310.6	1224.8	1231.1	1306.6	1408.3	1594.9	1855.4	1926.1	1871.3
42.5°	1498.8	1363.0	1336.8	1387.6	1458.3	1502.0	1625.1	1888.0	1989.7	1953.9
45°	1513.9	1446.4	1519.5	1556.8	1614.8	1584.6	1623.5	1943.6	1994.4	1976.2
47.5°	1572.7	1598.1	1690.2	1803.8	1824.5	1725.2	1661.6	1952.3	2021.4	2019.1
50°	1633.8	1760.9	1890.4	1965.8	1992.0	1822.1	1697.4	1945.2	2057.2	2038.1
52.5°	1702.1	1902.3	2089.0	2181.9	2167.6	1929.3	1737.9	2003.2	2123.1	2116.7
55°	1745.0	1965.8	2216.8	2346.3	2335.2	2049.2	1866.6	2086.6	2209.7	2193.8
57.5°	1858.6	2069.1	2343.9	2404.3	2433.7	2206.5	1956.3	2223.2	2282.0	2299.4
60°	1952.3	2136.6	2377.3	2464.6	2475.0	2300.2	2113.6	2363.8	2374.1	2315.3
62.5°	2089.7	2162.8	2306.6	2385.2	2438.4	2353.4	2255.0	2439.2	2372.5	2368.5
65°	2190.6	2077.0	2174.7	2218.4	2252.6	2272.4	2397.1	2490.9	2343.1	2266.1
67.5°	2134.2	1915.0	1896.7	1899.1	1909.4	2029.4	2349.5	2364.6	2179.5	2116.0
70°	1878.5	1571.1	1546.5	1565.5	1513.9	1658.5	2156.5	2149.3	1922.9	1857.0
72.5°	1519.5	1145.3	1103.3	1129.5	1141.4	1294.7	1814.1	1629.9	1402.7	1351.1
75°	1207.3	839.6	708.5	772.0	812.5	942.8	1417.0	1107.2	979.3	909.4
77.5°	948.4	635.4	551.2	525.8	563.1	685.5	1031.0	581.4	513.1	480.5
80°	601.3	467.0	506.7	470.2	486.1	489.3	536.9	264.5	210.5	208.1
82.5°	362.2	319.3	379.7	208.9	380.5	340.0	223.2	119.9	106.4	106.4
85°	256.6	197.8	131.1	85.0	169.2	186.7	86.6	62.0	54.0	52.4
87.5°	128.7	61.2	29.4	19.1	21.4	34.9	10.3	4.8	4.8	4.0
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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