

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: P677463

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677463  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-827-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

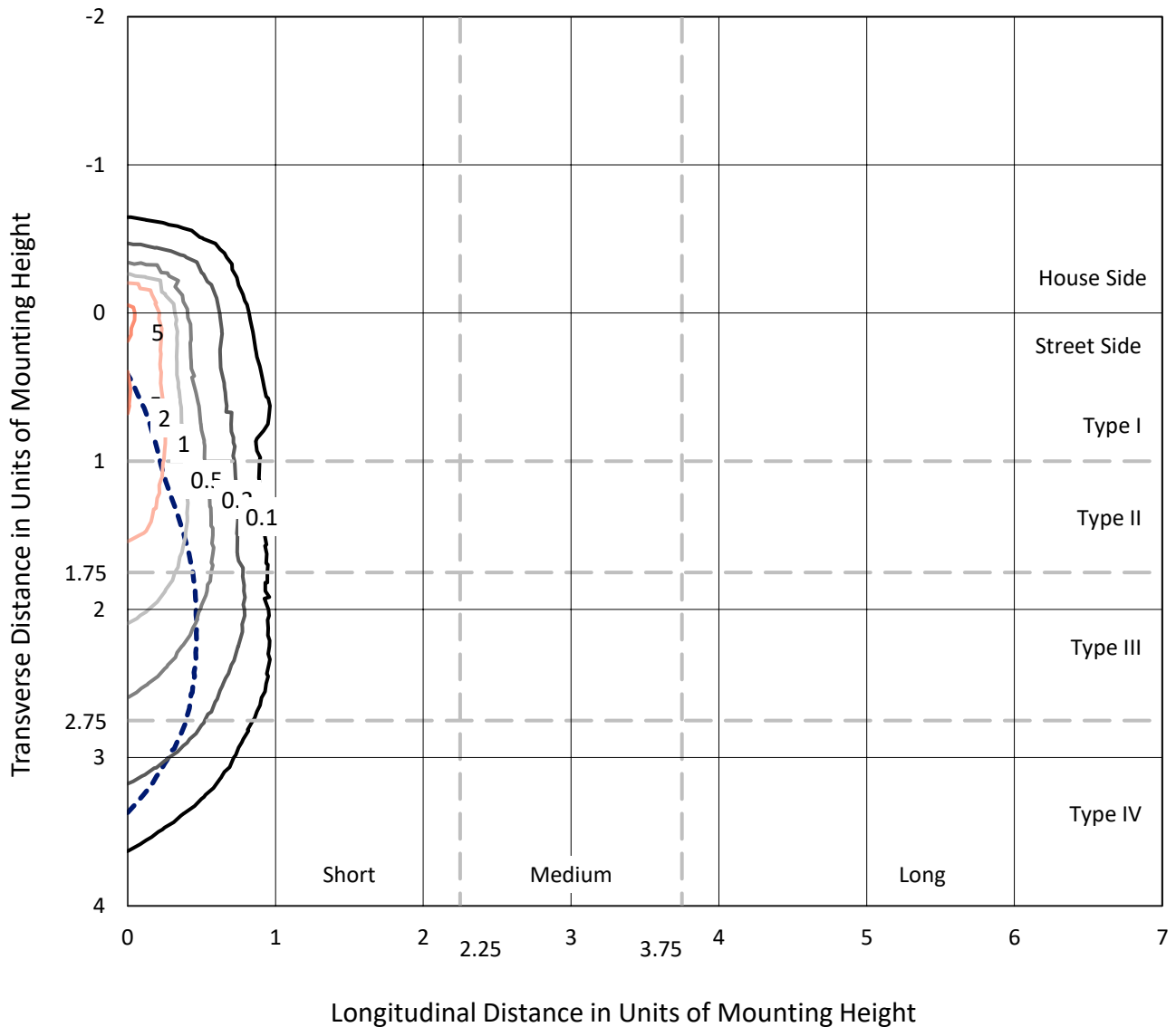
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3611.8 lumens  
Efficiency: N/A  
Efficacy: 64.4 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): 56.1  
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

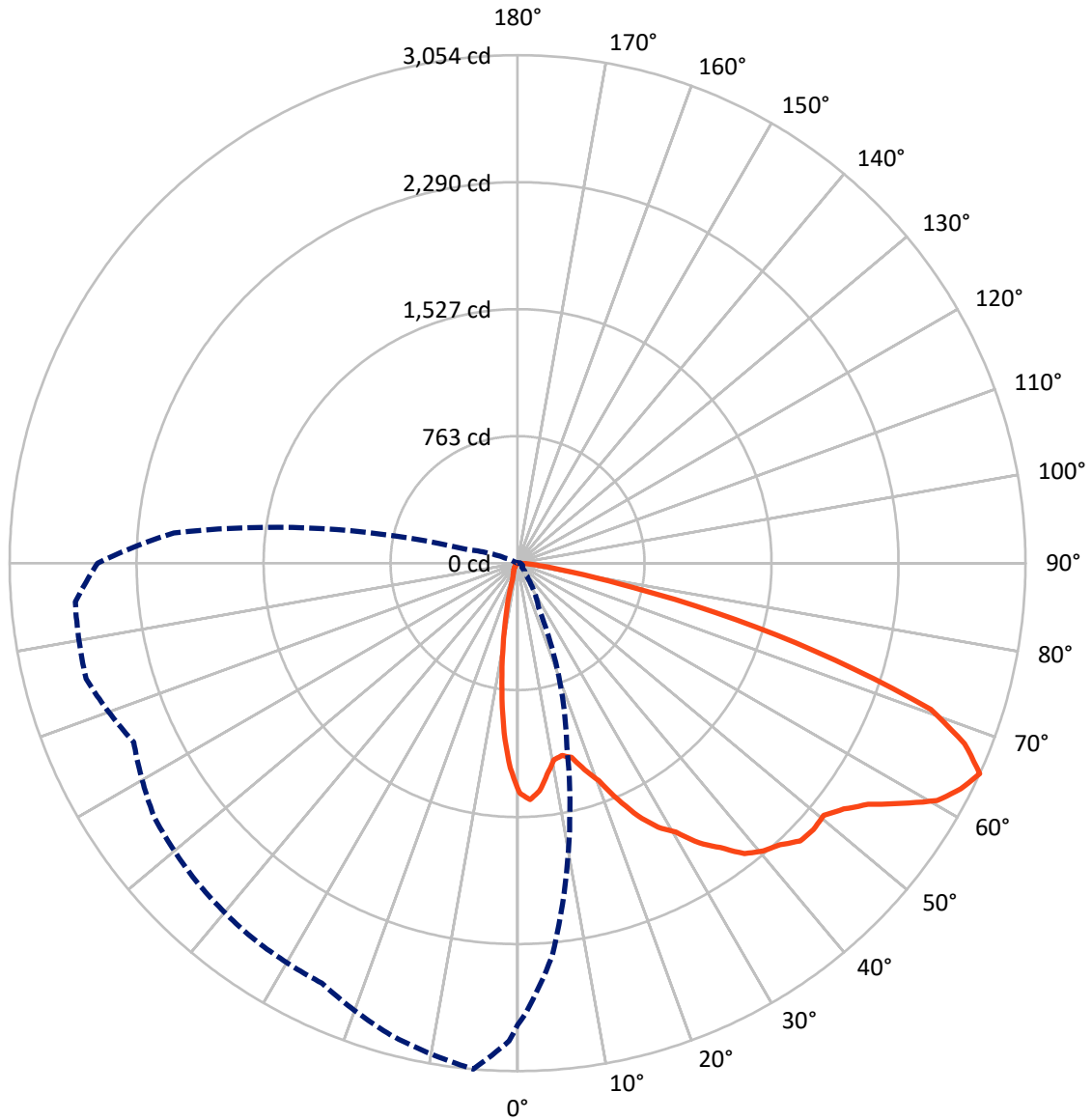
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	468.9	0.0	468.9
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	3142.8	0.0	3142.8
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	3611.8	0.0	3611.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	2.9
10°-20°	202.5	5.6
20°-30°	282.1	7.8
30°-40°	400.8	11.1
40°-50°	555.8	15.4
50°-60°	757.3	21.0
60°-70°	832.6	23.1
70°-80°	409.2	11.3
80°-90°	66.8	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°	3611.8	100.0
0°-180°	3611.8	100.0



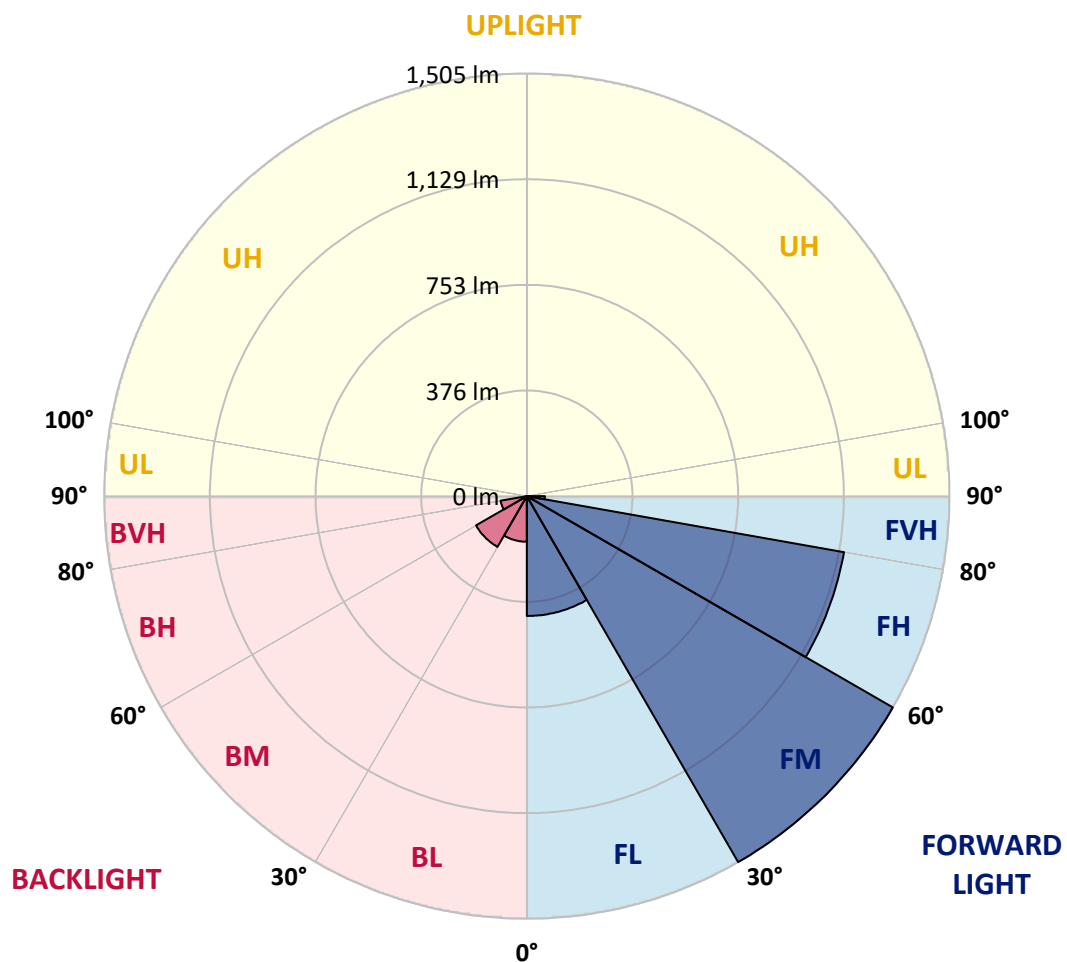
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.8	11.8			
FM (30°-60°)	1505.1	41.7			
FH (60°-80°)	1147.0	31.8			G1/1800
FVH (80°-90°)	63.8	1.8			G1/100
BL (0°-30°)	162.4	4.5	B1/500		
BM (30°-60°)	208.8	5.8	B0/220		
BH (60°-80°)	94.8	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°	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8
2.5°	1409.0	1425.6	1410.0	1355.5	1345.7	1319.4	1279.5	1276.6	1234.7	1239.6	1217.2
5°	1324.3	1340.9	1307.7	1235.7	1168.5	1114.9	1082.8	1025.4	1012.7	984.5	984.5
7.5°	1237.6	1236.7	1180.2	1119.8	1019.5	921.2	876.4	793.6	744.9	718.6	693.3
10°	1165.6	1150.0	1114.9	990.3	881.2	779.0	723.5	669.0	618.3	574.5	530.7
12.5°	1114.9	1124.7	1069.2	933.8	792.6	721.5	662.2	604.7	544.3	494.7	446.0
15°	1141.2	1125.7	1060.4	921.2	778.0	680.7	601.8	531.7	464.5	399.2	362.2
17.5°	1223.0	1183.1	1106.2	921.2	747.8	618.3	522.9	440.1	368.1	309.7	263.9
20°	1333.1	1287.3	1204.5	955.2	725.4	572.6	442.1	337.9	262.9	208.4	173.3
22.5°	1446.0	1410.0	1285.4	968.9	699.2	511.2	348.6	244.4	175.3	140.2	122.7
25°	1581.4	1530.7	1394.4	1023.4	660.2	451.8	274.6	170.4	130.5	112.0	101.3
27.5°	1689.5	1680.7	1496.7	1056.5	631.0	403.1	217.1	135.4	108.1	94.5	87.6
30°	1825.8	1778.1	1621.3	1122.7	597.9	347.6	181.1	121.7	99.3	84.7	79.8
32.5°	1907.6	1885.2	1686.5	1159.7	560.9	301.9	155.8	107.1	90.6	79.8	75.0
35°	2026.4	1981.6	1780.0	1183.1	541.4	275.6	140.2	97.4	76.0	65.2	59.4
37.5°	2158.8	2142.3	1892.0	1182.1	513.2	260.0	129.5	90.6	72.1	60.4	53.6
40°	2294.2	2227.0	1960.2	1209.4	498.6	248.3	121.7	86.7	68.2	57.5	48.7
42.5°	2395.4	2318.5	2039.0	1199.7	481.0	227.9	118.8	80.8	65.2	52.6	44.8
45°	2422.7	2395.4	2110.1	1196.7	468.4	211.3	113.9	79.8	63.3	49.7	41.9
47.5°	2475.3	2456.8	2197.8	1201.6	458.6	198.6	102.2	81.8	60.4	46.7	39.9
50°	2498.6	2465.5	2268.8	1213.3	436.2	183.1	91.5	85.7	59.4	45.8	38.0
52.5°	2595.0	2565.8	2366.2	1246.4	417.7	162.6	80.8	81.8	61.3	42.8	36.0
55°	2689.5	2656.4	2516.2	1322.4	391.4	146.1	69.1	72.1	58.4	39.0	32.1
57.5°	2819.0	2764.5	2616.5	1353.5	368.1	123.7	61.3	59.4	54.5	35.1	28.2
60°	2838.5	2860.9	2601.9	1334.0	343.7	109.1	53.6	45.8	58.4	31.2	24.3
62.5°	2903.7	2810.2	2533.7	1289.2	326.2	100.3	47.7	38.0	50.6	27.3	20.4
65°	2778.1	2709.0	2374.0	1145.1	303.8	101.3	41.9	31.2	32.1	22.4	16.6
67.5°	2594.1	2539.5	2109.1	988.4	281.4	99.3	37.0	27.3	24.3	19.5	14.6
70°	2276.6	2158.8	1791.7	802.4	248.3	92.5	31.2	24.3	20.4	15.6	10.7
72.5°	1656.3	1608.6	1285.4	620.3	223.0	83.7	29.2	20.4	17.5	11.7	8.8
75°	1114.9	1036.1	811.1	407.0	179.2	73.0	24.3	18.5	13.6	8.8	6.8
77.5°	589.1	557.0	459.6	193.8	99.3	34.1	13.6	10.7	7.8	6.8	3.9
80°	255.1	226.9	198.6	78.9	35.1	15.6	8.8	5.8	4.9	3.9	1.9
82.5°	130.5	124.6	103.2	34.1	20.4	11.7	4.9	3.9	2.9	1.9	1.0
85°	64.3	66.2	54.5	10.7	11.7	6.8	1.0	1.0	0.0	0.0	0.0
87.5°	4.9	4.9	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°	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8
2.5°	1208.4	1222.1	1198.7	1213.3	1206.5	1209.4	1212.3	1204.5	1206.5	1233.7	1234.7
5°	967.9	994.2	984.5	998.1	1021.5	1009.8	1020.5	1018.5	1020.5	1024.4	1041.9
7.5°	690.4	682.6	701.1	737.1	779.0	804.3	791.7	784.8	780.9	771.2	782.9
10°	521.0	517.1	512.2	522.9	550.2	578.4	594.0	567.7	553.1	534.6	527.8
12.5°	432.3	408.0	394.4	377.8	385.6	410.9	411.9	386.6	363.2	353.5	364.2
15°	340.8	324.3	299.9	276.5	264.9	284.3	267.8	243.4	213.3	209.4	208.4
17.5°	243.4	233.7	216.2	206.4	192.8	187.9	170.4	133.4	112.0	106.1	108.1
20°	165.5	157.7	156.8	148.0	142.2	138.3	110.0	85.7	78.9	79.8	80.8
22.5°	122.7	118.8	113.9	113.0	108.1	103.2	80.8	72.1	67.2	67.2	70.1
25°	100.3	98.3	93.5	91.5	89.6	82.8	68.2	61.3	59.4	57.5	60.4
27.5°	85.7	84.7	81.8	78.9	76.9	70.1	59.4	53.6	51.6	51.6	51.6
30°	76.9	76.9	73.0	67.2	67.2	59.4	50.6	46.7	44.8	44.8	43.8
32.5°	72.1	70.1	65.2	61.3	58.4	50.6	44.8	40.9	38.0	38.0	39.0
35°	58.4	58.4	57.5	54.5	50.6	42.8	38.0	34.1	32.1	31.2	32.1
37.5°	51.6	48.7	44.8	45.8	43.8	37.0	32.1	29.2	26.3	26.3	26.3
40°	46.7	43.8	39.9	37.0	36.0	33.1	28.2	23.4	20.4	19.5	19.5
42.5°	41.9	39.9	34.1	29.2	28.2	28.2	21.4	17.5	14.6	14.6	14.6
45°	39.0	36.0	31.2	25.3	20.4	21.4	17.5	12.7	10.7	9.7	9.7
47.5°	37.0	34.1	27.3	21.4	15.6	15.6	12.7	8.8	6.8	5.8	5.8
50°	34.1	31.2	24.3	17.5	11.7	9.7	7.8	4.9	2.9	1.9	1.9
52.5°	32.1	29.2	21.4	14.6	9.7	6.8	4.9	1.0	0.0	0.0	0.0
55°	29.2	25.3	18.5	11.7	7.8	3.9	1.0	0.0	0.0	0.0	0.0
57.5°	25.3	22.4	14.6	8.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0
60°	21.4	18.5	11.7	6.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17.5	15.6	8.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14.6	11.7	6.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.7	9.7	4.9	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	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.9	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°	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8
2.5°	1238.6	1267.8	1295.1	1302.9	1324.3	1383.7	1383.7	1411.9	1462.6	1481.1	1485.0
5°	1044.8	1076.0	1081.8	1142.2	1170.4	1230.8	1270.7	1366.2	1423.6	1459.7	1482.0
7.5°	794.6	805.3	827.7	884.2	939.7	1012.7	1088.7	1210.4	1311.6	1352.5	1428.5
10°	546.3	578.4	627.1	677.7	764.4	845.2	943.6	1058.5	1183.1	1233.7	1299.0
12.5°	368.1	412.9	490.8	562.8	642.7	724.5	818.0	971.8	1113.0	1183.1	1248.3
15°	215.2	269.7	336.9	453.8	559.9	651.4	744.9	900.7	1072.1	1162.7	1242.5
17.5°	109.1	125.6	181.1	282.4	422.6	572.6	711.8	910.5	1103.3	1214.3	1280.5
20°	81.8	86.7	102.2	150.0	289.2	473.2	680.7	925.1	1189.9	1325.3	1361.3
22.5°	71.1	75.0	81.8	97.4	162.6	362.2	636.8	961.1	1307.7	1435.3	1511.3
25°	60.4	64.3	70.1	79.8	104.2	246.4	583.3	999.1	1412.9	1573.6	1644.7
27.5°	52.6	55.5	61.3	69.1	84.7	156.8	490.8	1049.7	1573.6	1741.1	1759.6
30°	44.8	47.7	52.6	61.3	72.1	111.0	360.3	1056.5	1662.2	1814.1	1865.7
32.5°	39.0	39.9	45.8	53.6	60.4	87.6	253.2	1063.3	1727.4	1908.6	1919.3
35°	32.1	34.1	39.9	44.8	52.6	69.1	191.8	1029.3	1812.1	2005.9	2003.0
37.5°	26.3	29.2	33.1	37.0	42.8	58.4	152.9	966.0	1918.3	2156.9	2065.3
40°	20.4	23.4	27.3	32.1	36.0	52.6	114.9	870.5	2029.3	2230.9	2133.5
42.5°	14.6	16.6	20.4	25.3	32.1	43.8	82.8	757.6	2073.1	2317.5	2215.3
45°	10.7	12.7	15.6	21.4	33.1	35.1	57.5	654.4	2119.9	2355.5	2196.8
47.5°	5.8	7.8	11.7	18.5	29.2	26.3	40.9	561.9	2173.4	2389.6	2211.4
50°	1.9	2.9	6.8	19.5	23.4	20.4	32.1	512.2	2226.0	2396.4	2240.6
52.5°	0.0	0.0	3.9	20.4	17.5	15.6	28.2	492.7	2212.4	2417.8	2222.1
55°	0.0	0.0	1.0	8.8	9.7	11.7	23.4	491.7	2308.8	2424.6	2323.4
57.5°	0.0	0.0	0.0	2.9	5.8	9.7	20.4	460.6	2370.1	2594.1	2459.7
60°	0.0	0.0	0.0	1.0	3.9	6.8	15.6	433.3	2432.4	2670.0	2605.8
62.5°	0.0	0.0	0.0	0.0	1.0	2.9	10.7	391.4	2306.8	2664.2	2746.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	309.7	2075.1	2524.9	2669.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	214.2	1817.0	2349.7	2525.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	129.5	1466.5	2060.5	2142.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5	1046.8	1635.9	1757.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	647.5	1195.8	1345.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	419.7	905.6	1021.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	224.0	567.7	660.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.4	344.7	397.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	209.4	238.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	42.8
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°	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8	1380.8
2.5°	1486.9	1515.2	1525.9	1509.3	1511.3	1477.2	1472.3	1424.6	1405.1	1409.0
5°	1555.1	1596.0	1618.4	1599.9	1558.0	1492.8	1433.4	1376.9	1341.8	1324.3
7.5°	1539.5	1585.3	1613.5	1631.0	1583.3	1478.2	1387.6	1281.5	1236.7	1237.6
10°	1453.8	1549.2	1606.7	1584.3	1561.9	1456.7	1316.5	1201.6	1161.7	1165.6
12.5°	1384.7	1490.8	1524.9	1542.4	1496.7	1412.9	1318.5	1187.0	1142.2	1114.9
15°	1341.8	1420.7	1422.6	1449.9	1431.4	1431.4	1338.9	1210.4	1171.4	1141.2
17.5°	1341.8	1359.4	1357.4	1367.1	1398.3	1435.3	1390.5	1304.8	1227.9	1223.0
20°	1372.0	1317.5	1304.8	1308.7	1335.0	1445.0	1504.4	1397.3	1348.6	1333.1
22.5°	1442.1	1322.4	1245.4	1231.8	1312.6	1444.1	1577.5	1543.4	1458.7	1446.0
25°	1538.5	1313.6	1229.8	1212.3	1273.7	1479.1	1677.8	1684.6	1607.7	1581.4
27.5°	1630.1	1352.5	1227.9	1224.0	1304.8	1471.3	1746.9	1797.5	1710.9	1689.5
30°	1661.2	1391.5	1263.9	1212.3	1316.5	1499.6	1745.0	1877.4	1820.9	1825.8
32.5°	1698.2	1430.4	1267.8	1247.4	1366.2	1545.3	1800.5	2005.9	1965.0	1907.6
35°	1752.8	1483.0	1304.8	1286.3	1401.2	1586.2	1812.1	2100.4	2093.6	2026.4
37.5°	1799.5	1534.6	1381.8	1384.7	1508.3	1652.5	1863.8	2216.3	2204.6	2158.8
40°	1832.6	1606.7	1501.5	1509.3	1601.8	1726.5	1955.3	2274.7	2361.3	2294.2
42.5°	1837.5	1671.0	1638.8	1701.1	1787.8	1841.4	1992.3	2314.6	2439.2	2395.4
45°	1856.0	1773.2	1862.8	1908.6	1979.6	1942.6	1990.3	2382.8	2445.1	2422.7
47.5°	1928.0	1959.2	2072.1	2211.4	2236.7	2115.0	2037.1	2393.5	2478.2	2475.3
50°	2003.0	2158.8	2317.5	2410.0	2442.2	2233.8	2080.9	2384.7	2522.0	2498.6
52.5°	2086.7	2332.1	2561.0	2674.9	2657.4	2365.2	2130.6	2455.8	2602.8	2595.0
55°	2139.3	2410.0	2717.7	2876.5	2862.8	2512.3	2288.3	2558.0	2709.0	2689.5
57.5°	2278.6	2536.6	2873.5	2947.5	2983.6	2705.1	2398.3	2725.5	2797.6	2819.0
60°	2393.5	2619.4	2914.4	3021.5	3034.2	2820.0	2591.1	2897.9	2910.5	2838.5
62.5°	2561.9	2651.5	2827.8	2924.2	2989.4	2885.2	2764.5	2990.4	2908.6	2903.7
65°	2685.6	2546.4	2666.1	2719.7	2761.6	2785.9	2938.8	3053.7	2872.6	2778.1
67.5°	2616.5	2347.7	2325.3	2328.2	2340.9	2487.9	2880.4	2898.9	2672.0	2594.1
70°	2302.9	1926.1	1895.9	1919.3	1856.0	2033.2	2643.7	2635.0	2357.4	2276.6
72.5°	1862.8	1404.1	1352.5	1384.7	1399.3	1587.2	2224.0	1998.1	1719.6	1656.3
75°	1480.1	1029.3	868.6	946.5	996.1	1155.8	1737.2	1357.4	1200.6	1114.9
77.5°	1162.7	779.0	675.8	644.6	690.4	840.3	1263.9	712.8	629.0	589.1
80°	737.1	572.6	621.3	576.5	595.9	599.8	658.3	324.3	258.0	255.1
82.5°	444.0	391.4	465.5	256.1	466.4	416.8	273.6	147.0	130.5	130.5
85°	314.5	242.5	160.7	104.2	207.4	228.8	106.1	76.0	66.2	64.3
87.5°	157.7	75.0	36.0	23.4	26.3	42.8	12.7	5.8	5.8	4.9
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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