

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: P677417

Luminaire Tested: **CCW-SA-1C-735-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677417  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-735-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLR distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3204.6 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

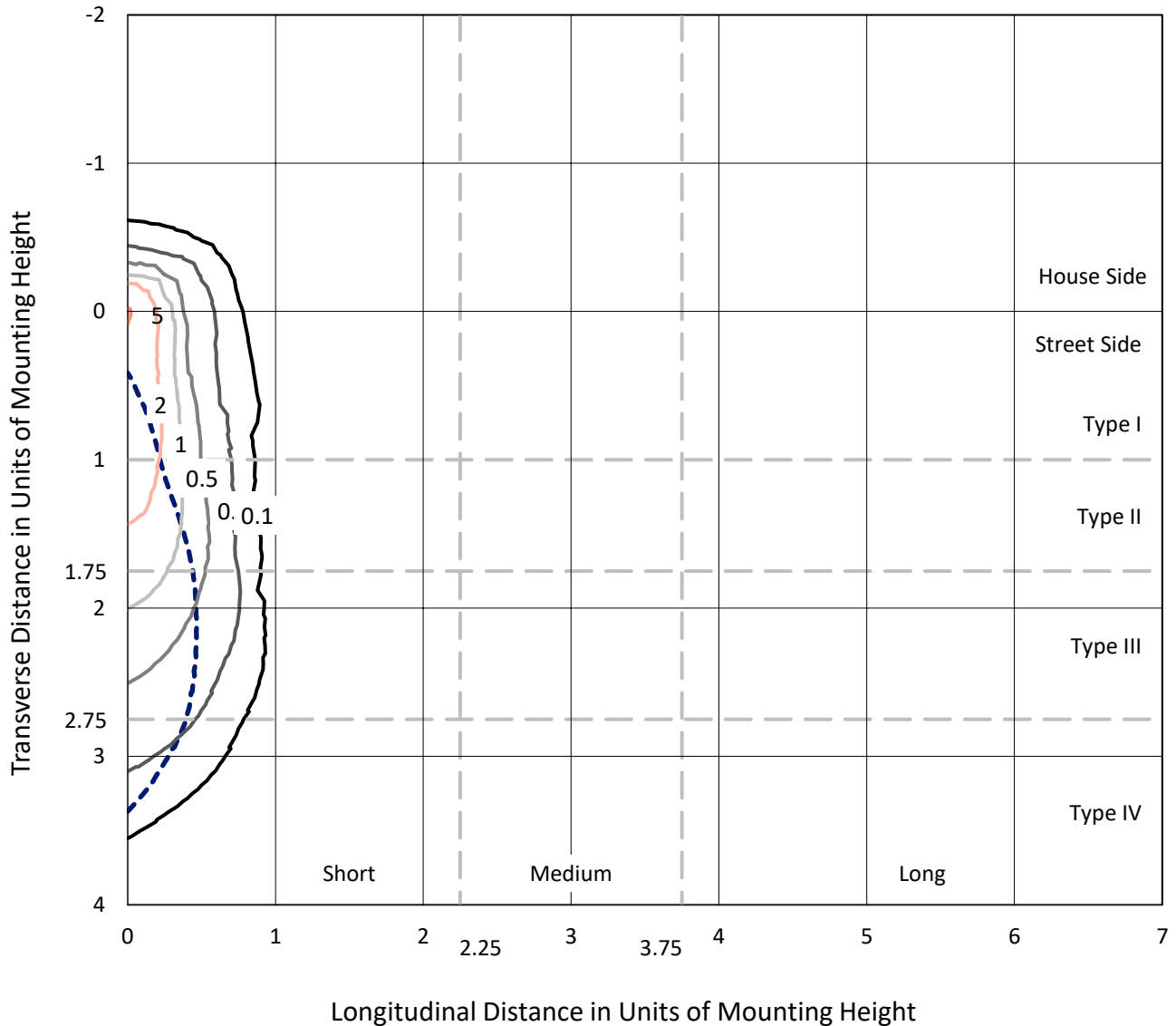
Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

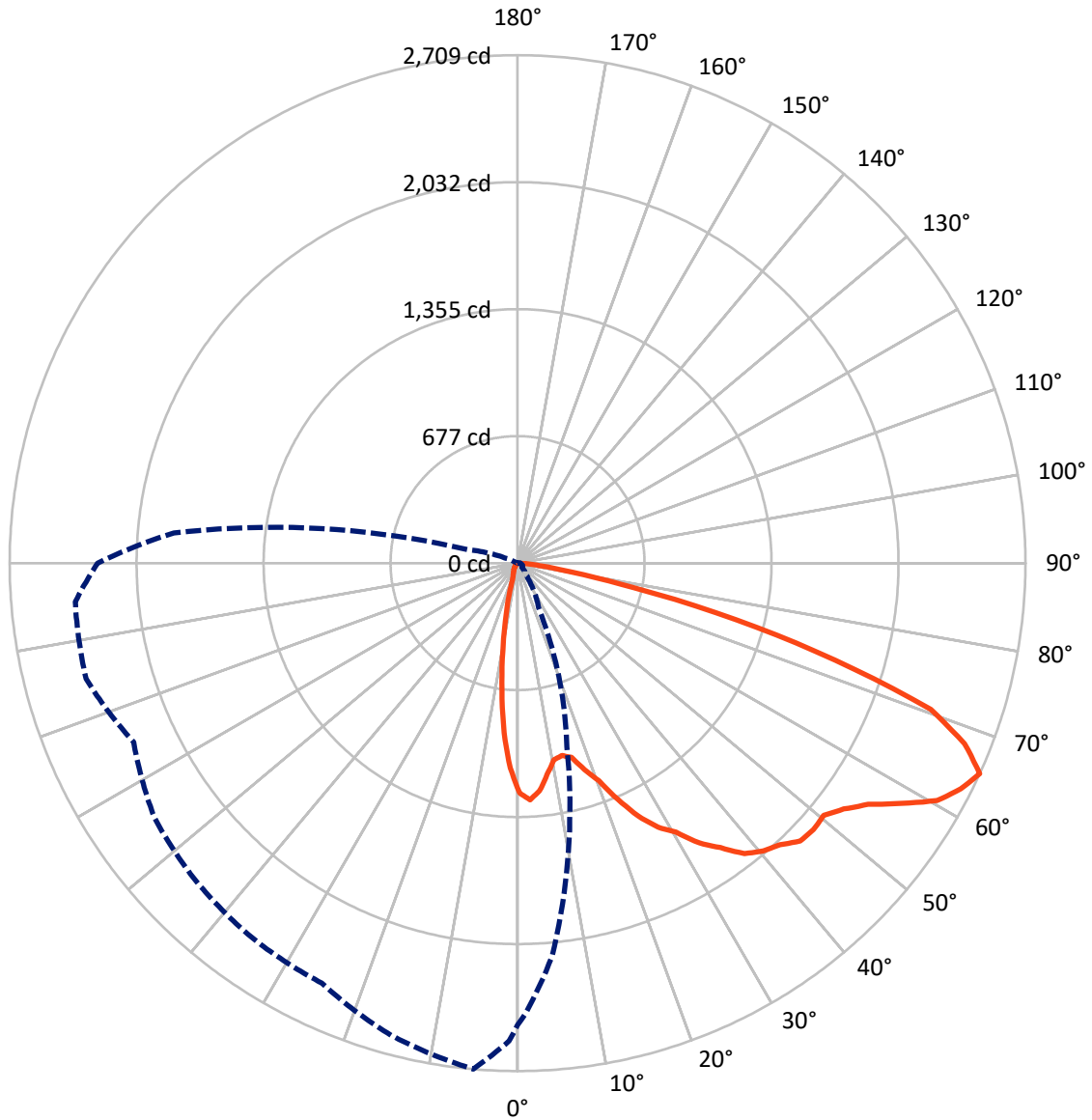
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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	416.1	0.0	416.1
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	2788.5	0.0	2788.5
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	3204.6	0.0	3204.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	2.9
10°-20°	179.7	5.6
20°-30°	250.3	7.8
30°-40°	355.6	11.1
40°-50°	493.1	15.4
50°-60°	671.9	21.0
60°-70°	738.7	23.1
70°-80°	363.1	11.3
80°-90°	59.3	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°	3204.6	100.0
0°-180°	3204.6	100.0



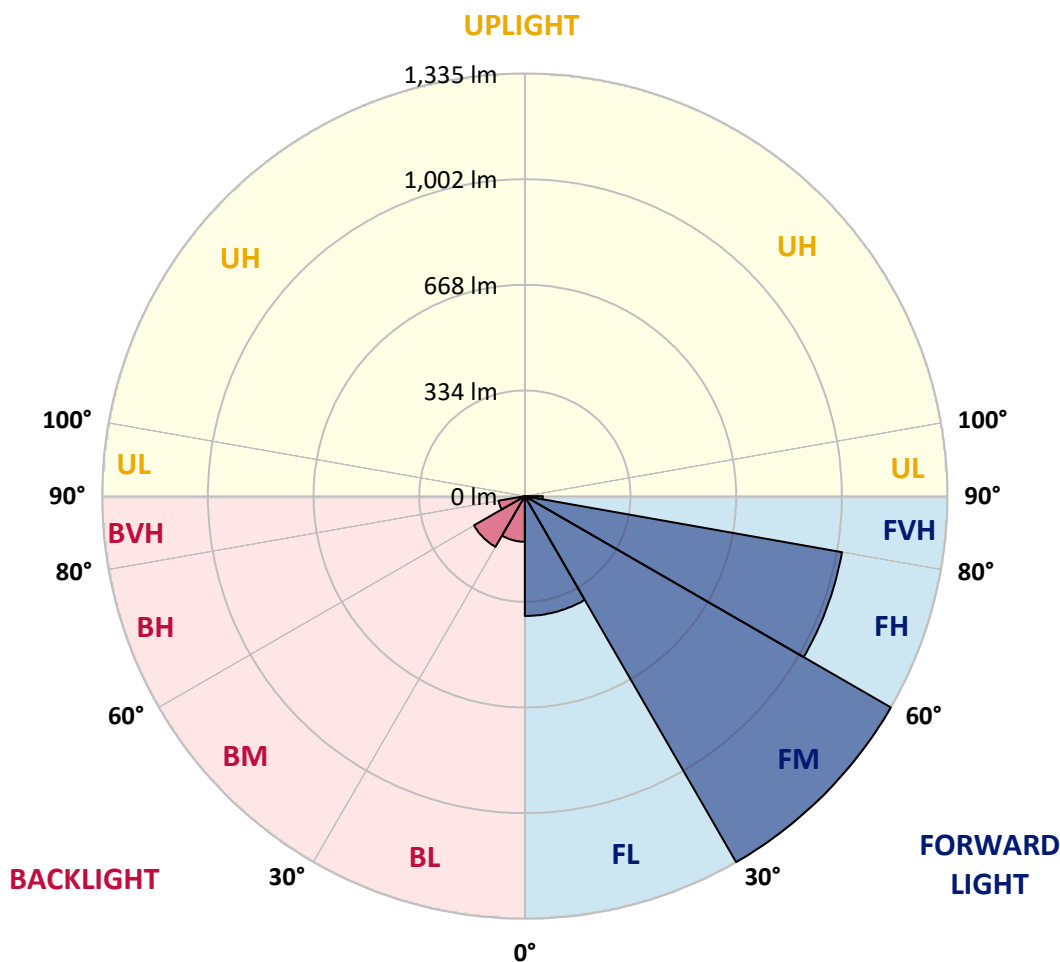
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.7	11.8			
FM (30°-60°)	1335.5	41.7			
FH (60°-80°)	1017.7	31.8			G1/1800
FVH (80°-90°)	56.6	1.8			G1/100
BL (0°-30°)	144.1	4.5	B1/500		
BM (30°-60°)	185.2	5.8	B0/220		
BH (60°-80°)	84.1	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°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1250.2	1264.9	1251.0	1202.7	1194.0	1170.7	1135.3	1132.7	1095.5	1099.8	1080.0
5°	1175.0	1189.7	1160.3	1096.4	1036.8	989.3	960.7	909.8	898.5	873.5	873.5
7.5°	1098.1	1097.3	1047.1	993.6	904.6	817.3	777.6	704.1	660.9	637.6	615.2
10°	1034.2	1020.4	989.3	878.7	781.9	691.2	641.9	593.6	548.6	509.7	470.9
12.5°	989.3	997.9	948.6	828.6	703.3	640.2	587.5	536.5	483.0	438.9	395.7
15°	1012.6	998.8	940.9	817.3	690.3	603.9	533.9	471.7	412.1	354.2	321.4
17.5°	1085.2	1049.7	981.5	817.3	663.5	548.6	464.0	390.5	326.6	274.7	234.1
20°	1182.8	1142.2	1068.7	847.6	643.7	508.0	392.2	299.8	233.3	184.9	153.8
22.5°	1283.0	1251.0	1140.5	859.7	620.3	453.6	309.3	216.9	155.5	124.4	108.9
25°	1403.1	1358.2	1237.2	908.0	585.8	400.9	243.6	151.2	115.8	99.4	89.9
27.5°	1499.0	1491.2	1327.9	937.4	559.9	357.7	192.7	120.1	95.9	83.8	77.8
30°	1620.0	1577.6	1438.5	996.2	530.5	308.4	160.7	108.0	88.1	75.2	70.8
32.5°	1692.5	1672.7	1496.4	1029.0	497.7	267.8	138.2	95.0	80.3	70.8	66.5
35°	1797.9	1758.2	1579.4	1049.7	480.4	244.5	124.4	86.4	67.4	57.9	52.7
37.5°	1915.4	1900.8	1678.7	1048.9	455.3	230.7	114.9	80.3	63.9	53.6	47.5
40°	2035.5	1975.9	1739.2	1073.1	442.4	220.3	108.0	76.9	60.5	51.0	43.2
42.5°	2125.4	2057.1	1809.2	1064.4	426.8	202.2	105.4	71.7	57.9	46.7	39.7
45°	2149.6	2125.4	1872.2	1061.8	415.6	187.5	101.1	70.8	56.2	44.1	37.2
47.5°	2196.2	2179.8	1950.0	1066.1	406.9	176.3	90.7	72.6	53.6	41.5	35.4
50°	2217.0	2187.6	2013.1	1076.5	387.1	162.4	81.2	76.0	52.7	40.6	33.7
52.5°	2302.5	2276.6	2099.5	1105.9	370.6	144.3	71.7	72.6	54.4	38.0	32.0
55°	2386.3	2356.9	2232.5	1173.3	347.3	129.6	61.3	63.9	51.8	34.6	28.5
57.5°	2501.2	2452.8	2321.5	1200.9	326.6	109.7	54.4	52.7	48.4	31.1	25.1
60°	2518.5	2538.4	2308.5	1183.6	305.0	96.8	47.5	40.6	51.8	27.6	21.6
62.5°	2576.4	2493.4	2248.1	1143.9	289.4	89.0	42.3	33.7	44.9	24.2	18.1
65°	2464.9	2403.6	2106.4	1016.0	269.6	89.9	37.2	27.6	28.5	19.9	14.7
67.5°	2301.6	2253.3	1871.4	876.9	249.7	88.1	32.8	24.2	21.6	17.3	13.0
70°	2020.0	1915.4	1589.7	711.9	220.3	82.1	27.6	21.6	18.1	13.8	9.5
72.5°	1469.6	1427.3	1140.5	550.4	197.9	74.3	25.9	18.1	15.6	10.4	7.8
75°	989.3	919.3	719.7	361.1	159.0	64.8	21.6	16.4	12.1	7.8	6.0
77.5°	522.7	494.2	407.8	171.9	88.1	30.2	12.1	9.5	6.9	6.0	3.5
80°	226.4	201.3	176.3	70.0	31.1	13.8	7.8	5.2	4.3	3.5	1.7
82.5°	115.8	110.6	91.6	30.2	18.1	10.4	4.3	3.5	2.6	1.7	0.9
85°	57.0	58.8	48.4	9.5	10.4	6.0	0.9	0.9	0.0	0.0	0.0
87.5°	4.3	4.3	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°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1072.2	1084.3	1063.6	1076.5	1070.5	1073.1	1075.7	1068.7	1070.5	1094.7	1095.5
5°	858.8	882.1	873.5	885.6	906.3	895.9	905.4	903.7	905.4	908.9	924.5
7.5°	612.6	605.6	622.1	654.0	691.2	713.6	702.4	696.4	692.9	684.3	694.6
10°	462.2	458.8	454.5	464.0	488.1	513.2	527.0	503.7	490.7	474.3	468.3
12.5°	383.6	362.0	349.9	335.2	342.1	364.6	365.5	343.0	322.3	313.6	323.1
15°	302.4	287.7	266.1	245.4	235.0	252.3	237.6	216.0	189.2	185.8	184.9
17.5°	216.0	207.4	191.8	183.2	171.1	166.7	151.2	118.4	99.4	94.2	95.9
20°	146.9	140.0	139.1	131.3	126.1	122.7	97.6	76.0	70.0	70.8	71.7
22.5°	108.9	105.4	101.1	100.2	95.9	91.6	71.7	63.9	59.6	59.6	62.2
25°	89.0	87.3	82.9	81.2	79.5	73.4	60.5	54.4	52.7	51.0	53.6
27.5°	76.0	75.2	72.6	70.0	68.3	62.2	52.7	47.5	45.8	45.8	45.8
30°	68.3	68.3	64.8	59.6	59.6	52.7	44.9	41.5	39.7	39.7	38.9
32.5°	63.9	62.2	57.9	54.4	51.8	44.9	39.7	36.3	33.7	33.7	34.6
35°	51.8	51.8	51.0	48.4	44.9	38.0	33.7	30.2	28.5	27.6	28.5
37.5°	45.8	43.2	39.7	40.6	38.9	32.8	28.5	25.9	23.3	23.3	23.3
40°	41.5	38.9	35.4	32.8	32.0	29.4	25.1	20.7	18.1	17.3	17.3
42.5°	37.2	35.4	30.2	25.9	25.1	25.1	19.0	15.6	13.0	13.0	13.0
45°	34.6	32.0	27.6	22.5	18.1	19.0	15.6	11.2	9.5	8.6	8.6
47.5°	32.8	30.2	24.2	19.0	13.8	13.8	11.2	7.8	6.0	5.2	5.2
50°	30.2	27.6	21.6	15.6	10.4	8.6	6.9	4.3	2.6	1.7	1.7
52.5°	28.5	25.9	19.0	13.0	8.6	6.0	4.3	0.9	0.0	0.0	0.0
55°	25.9	22.5	16.4	10.4	6.9	3.5	0.9	0.0	0.0	0.0	0.0
57.5°	22.5	19.9	13.0	7.8	4.3	0.9	0.0	0.0	0.0	0.0	0.0
60°	19.0	16.4	10.4	6.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15.6	13.8	7.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13.0	10.4	6.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11.2	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.6	6.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.0	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.3	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°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1099.0	1124.9	1149.1	1156.0	1175.0	1227.7	1227.7	1252.8	1297.7	1314.1	1317.6
5°	927.0	954.7	959.9	1013.4	1038.5	1092.1	1127.5	1212.2	1263.1	1295.1	1315.0
7.5°	705.0	714.5	734.4	784.5	833.7	898.5	965.9	1073.9	1163.8	1200.1	1267.5
10°	484.7	513.2	556.4	601.3	678.2	749.9	837.2	939.1	1049.7	1094.7	1152.5
12.5°	326.6	366.3	435.4	499.4	570.2	642.8	725.7	862.2	987.5	1049.7	1107.6
15°	190.9	239.3	298.9	402.6	496.8	578.0	660.9	799.2	951.2	1031.6	1102.4
17.5°	96.8	111.5	160.7	250.6	375.0	508.0	631.6	807.8	978.9	1077.4	1136.1
20°	72.6	76.9	90.7	133.1	256.6	419.9	603.9	820.8	1055.8	1175.9	1207.8
22.5°	63.1	66.5	72.6	86.4	144.3	321.4	565.0	852.7	1160.3	1273.5	1340.9
25°	53.6	57.0	62.2	70.8	92.4	218.6	517.5	886.4	1253.6	1396.2	1459.3
27.5°	46.7	49.2	54.4	61.3	75.2	139.1	435.4	931.4	1396.2	1544.8	1561.2
30°	39.7	42.3	46.7	54.4	63.9	98.5	319.7	937.4	1474.8	1609.6	1655.4
32.5°	34.6	35.4	40.6	47.5	53.6	77.8	224.6	943.5	1532.7	1693.4	1702.9
35°	28.5	30.2	35.4	39.7	46.7	61.3	170.2	913.2	1607.9	1779.8	1777.2
37.5°	23.3	25.9	29.4	32.8	38.0	51.8	135.6	857.1	1702.0	1913.7	1832.5
40°	18.1	20.7	24.2	28.5	32.0	46.7	101.9	772.4	1800.5	1979.4	1893.0
42.5°	13.0	14.7	18.1	22.5	28.5	38.9	73.4	672.2	1839.4	2056.3	1965.5
45°	9.5	11.2	13.8	19.0	29.4	31.1	51.0	580.6	1880.9	2090.0	1949.1
47.5°	5.2	6.9	10.4	16.4	25.9	23.3	36.3	498.5	1928.4	2120.2	1962.1
50°	1.7	2.6	6.0	17.3	20.7	18.1	28.5	454.5	1975.1	2126.2	1988.0
52.5°	0.0	0.0	3.5	18.1	15.6	13.8	25.1	437.2	1963.0	2145.3	1971.6
55°	0.0	0.0	0.9	7.8	8.6	10.4	20.7	436.3	2048.5	2151.3	2061.5
57.5°	0.0	0.0	0.0	2.6	5.2	8.6	18.1	408.7	2102.9	2301.6	2182.4
60°	0.0	0.0	0.0	0.9	3.5	6.0	13.8	384.5	2158.2	2369.0	2312.0
62.5°	0.0	0.0	0.0	0.0	0.9	2.6	9.5	347.3	2046.8	2363.8	2437.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	274.7	1841.1	2240.3	2368.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	190.1	1612.2	2084.8	2241.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114.9	1301.2	1828.2	1900.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.2	928.8	1451.5	1559.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	574.5	1061.0	1194.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	372.4	803.5	906.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	198.7	503.7	585.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.4	305.8	352.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	185.8	211.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	38.0
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1	1225.1
2.5°	1319.3	1344.3	1353.9	1339.2	1340.9	1310.7	1306.3	1264.0	1246.7	1250.2
5°	1379.8	1416.1	1435.9	1419.5	1382.4	1324.5	1271.8	1221.7	1190.6	1175.0
7.5°	1365.9	1406.6	1431.6	1447.2	1404.8	1311.5	1231.2	1137.0	1097.3	1098.1
10°	1289.9	1374.6	1425.6	1405.7	1385.8	1292.5	1168.1	1066.1	1030.7	1034.2
12.5°	1228.6	1322.7	1353.0	1368.5	1327.9	1253.6	1169.8	1053.2	1013.4	989.3
15°	1190.6	1260.5	1262.3	1286.5	1270.0	1270.0	1188.0	1073.9	1039.4	1012.6
17.5°	1190.6	1206.1	1204.4	1213.0	1240.7	1273.5	1233.8	1157.7	1089.5	1085.2
20°	1217.3	1169.0	1157.7	1161.2	1184.5	1282.1	1334.8	1239.8	1196.6	1182.8
22.5°	1279.6	1173.3	1105.0	1092.9	1164.6	1281.3	1399.6	1369.4	1294.2	1283.0
25°	1365.1	1165.5	1091.2	1075.7	1130.1	1312.4	1488.6	1494.7	1426.4	1403.1
27.5°	1446.3	1200.1	1089.5	1086.0	1157.7	1305.5	1550.0	1594.9	1518.0	1499.0
30°	1473.9	1234.6	1121.4	1075.7	1168.1	1330.5	1548.2	1665.7	1615.6	1620.0
32.5°	1506.8	1269.2	1124.9	1106.8	1212.2	1371.1	1597.5	1779.8	1743.5	1692.5
35°	1555.2	1315.8	1157.7	1141.3	1243.3	1407.4	1607.9	1863.6	1857.6	1797.9
37.5°	1596.6	1361.6	1226.0	1228.6	1338.3	1466.2	1653.7	1966.4	1956.0	1915.4
40°	1626.0	1425.6	1332.3	1339.2	1421.2	1531.8	1734.9	2018.3	2095.1	2035.5
42.5°	1630.3	1482.6	1454.1	1509.4	1586.3	1633.8	1767.7	2053.7	2164.3	2125.4
45°	1646.7	1573.3	1652.8	1693.4	1756.5	1723.6	1766.0	2114.2	2169.4	2149.6
47.5°	1710.7	1738.3	1838.5	1962.1	1984.6	1876.6	1807.4	2123.7	2198.8	2196.2
50°	1777.2	1915.4	2056.3	2138.3	2166.9	1982.0	1846.3	2115.9	2237.7	2217.0
52.5°	1851.5	2069.2	2272.3	2373.3	2357.8	2098.6	1890.4	2179.0	2309.4	2302.5
55°	1898.2	2138.3	2411.4	2552.2	2540.1	2229.1	2030.3	2269.7	2403.6	2386.3
57.5°	2021.7	2250.7	2549.6	2615.3	2647.2	2400.1	2128.0	2418.3	2482.2	2501.2
60°	2123.7	2324.1	2585.9	2680.9	2692.2	2502.1	2299.0	2571.2	2582.4	2518.5
62.5°	2273.1	2352.6	2509.0	2594.5	2652.4	2560.0	2452.8	2653.3	2580.7	2576.4
65°	2382.9	2259.3	2365.6	2413.1	2450.2	2471.8	2607.5	2709.4	2548.7	2464.9
67.5°	2321.5	2083.0	2063.2	2065.8	2077.0	2207.5	2555.6	2572.1	2370.8	2301.6
70°	2043.3	1708.9	1682.2	1702.9	1646.7	1804.0	2345.7	2337.9	2091.7	2020.0
72.5°	1652.8	1245.9	1200.1	1228.6	1241.5	1408.3	1973.3	1772.9	1525.8	1469.6
75°	1313.2	913.2	770.7	839.8	883.8	1025.5	1541.3	1204.4	1065.3	989.3
77.5°	1031.6	691.2	599.6	572.0	612.6	745.6	1121.4	632.4	558.1	522.7
80°	654.0	508.0	551.2	511.5	528.8	532.2	584.0	287.7	229.0	226.4
82.5°	394.0	347.3	413.0	227.2	413.8	369.8	242.8	130.5	115.8	115.8
85°	279.1	215.1	142.6	92.4	184.0	203.0	94.2	67.4	58.8	57.0
87.5°	140.0	66.5	32.0	20.7	23.3	38.0	11.2	5.2	5.2	4.3
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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