

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: P677343

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677343  
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-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SLL 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: 3271.2 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

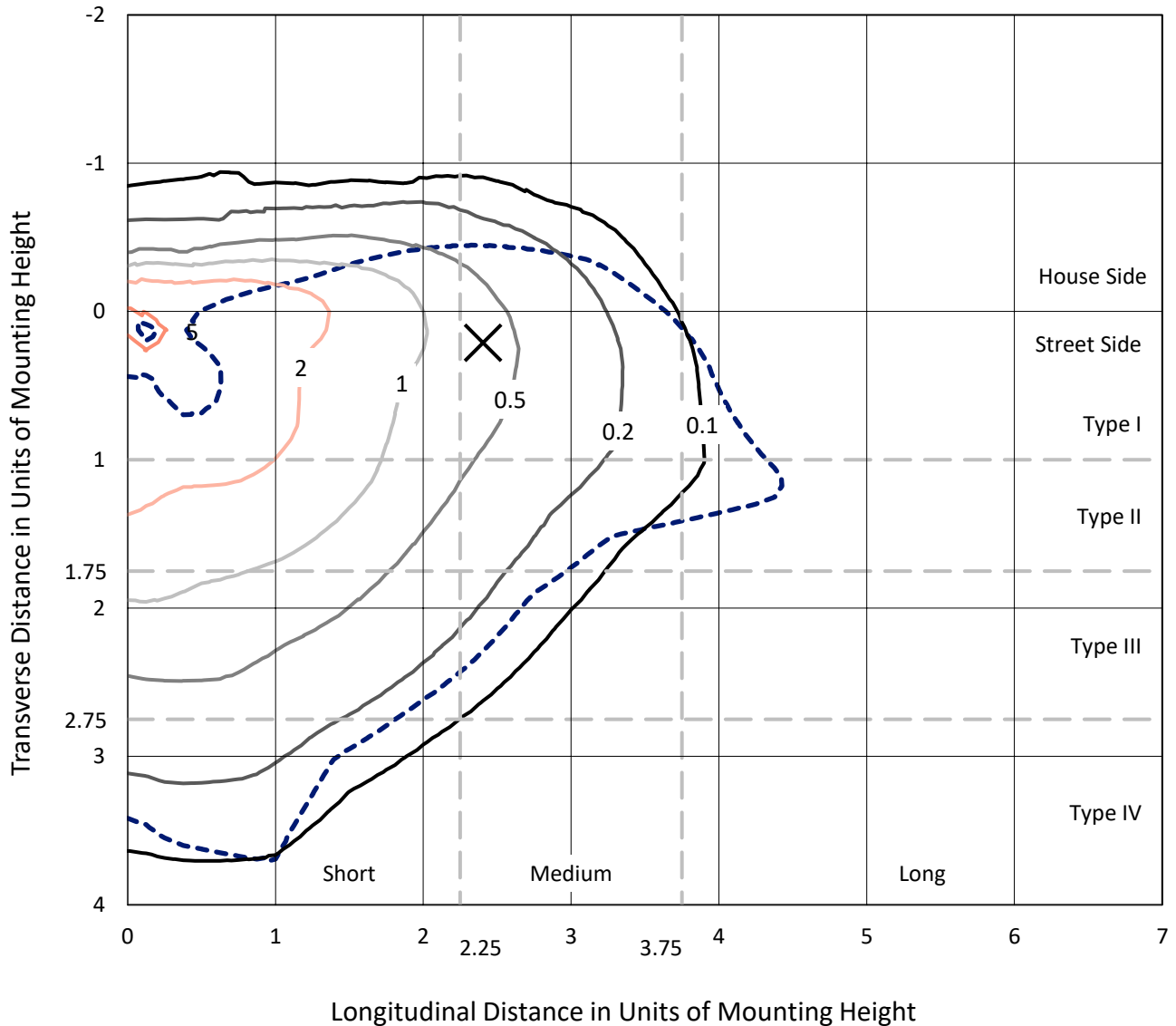
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

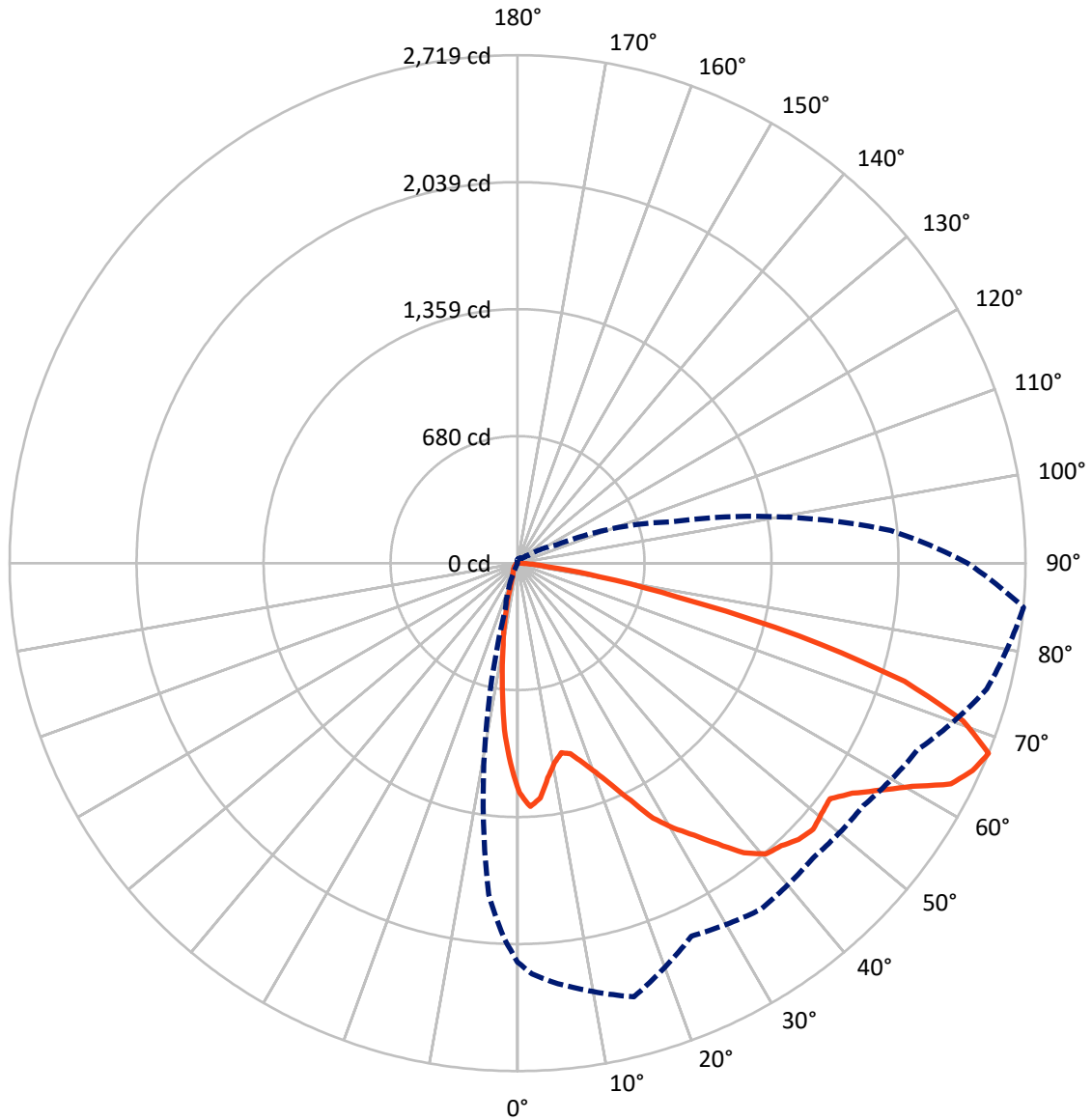
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	568.0	0.0	568.0
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2703.2	0.0	2703.2
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	3271.2	0.0	3271.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	2.9
10°-20°	183.2	5.6
20°-30°	253.6	7.8
30°-40°	358.3	11.0
40°-50°	487.9	14.9
50°-60°	646.2	19.8
60°-70°	750.3	22.9
70°-80°	424.9	13.0
80°-90°	73.4	2.2
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°	3271.2	100.0
0°-180°	3271.2	100.0

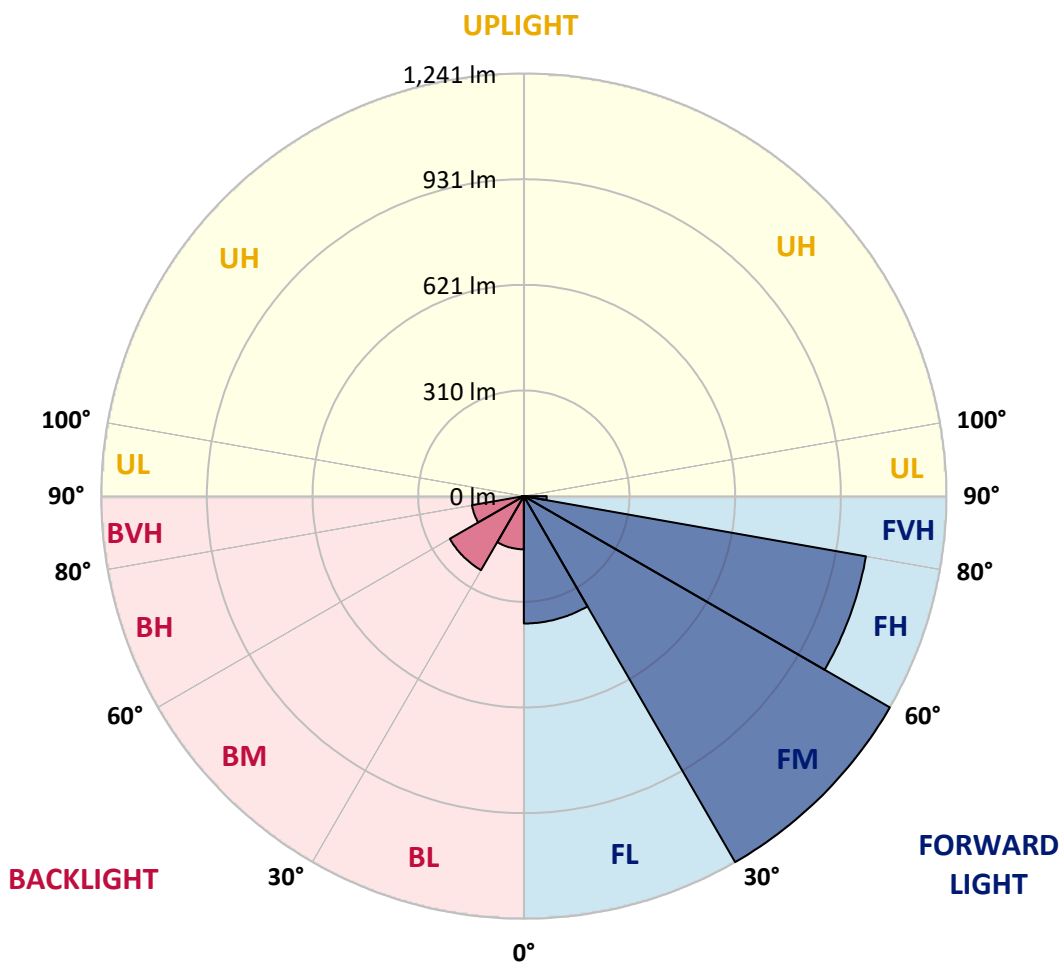


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.1	11.4			
FM (30°-60°)	1241.4	38.0			
FH (60°-80°)	1020.5	31.2			G1/1800
FVH (80°-90°)	67.2	2.1			G1/100
BL (0°-30°)	156.1	4.8	B1/500		
BM (30°-60°)	251.0	7.7	B1/1000		
BH (60°-80°)	154.7	4.7	B1/500		G1/500
BVH (80°-90°)	6.2	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1278.0	1305.1	1305.9	1318.2	1330.4	1330.4	1359.2	1352.2	1326.9	1322.5	1304.2
5°	1287.6	1297.2	1304.2	1366.2	1418.6	1413.4	1429.1	1418.6	1369.7	1306.8	1264.0
7.5°	1204.6	1215.1	1243.0	1348.7	1419.5	1443.1	1472.8	1407.3	1355.7	1242.2	1160.1
10°	1094.5	1114.6	1166.2	1286.7	1374.1	1449.2	1449.2	1396.8	1297.2	1186.3	1085.8
12.5°	1033.4	1073.6	1101.5	1223.8	1337.4	1388.9	1387.2	1359.2	1294.6	1154.8	1041.3
15°	1043.9	1055.2	1114.6	1209.9	1285.0	1282.4	1313.8	1305.1	1259.6	1182.8	1057.9
17.5°	1091.9	1109.4	1160.9	1209.9	1245.7	1235.2	1234.3	1276.2	1278.9	1229.9	1119.9
20°	1170.5	1222.1	1246.5	1261.4	1217.7	1173.2	1167.9	1226.4	1271.9	1290.2	1194.1
22.5°	1296.3	1330.4	1380.2	1304.2	1190.6	1134.7	1124.2	1188.9	1280.6	1361.8	1290.2
25°	1419.5	1445.7	1493.8	1395.9	1221.2	1126.9	1108.5	1164.4	1313.8	1461.4	1406.4
27.5°	1549.7	1572.4	1577.6	1463.2	1237.8	1111.1	1089.3	1164.4	1341.8	1513.8	1545.3
30°	1629.1	1656.2	1661.5	1522.6	1264.9	1124.2	1113.8	1169.7	1361.0	1558.4	1644.9
32.5°	1718.3	1725.2	1720.9	1533.1	1294.6	1162.7	1119.0	1204.6	1382.8	1611.7	1735.7
35°	1824.8	1837.1	1792.5	1581.1	1361.0	1187.1	1171.4	1247.4	1420.4	1636.1	1845.8
37.5°	1906.1	1944.5	1844.0	1599.4	1374.1	1238.7	1241.3	1336.5	1446.6	1665.8	1967.2
40°	2058.9	1994.3	1931.4	1662.3	1423.9	1326.0	1312.1	1428.2	1534.8	1685.1	2046.7
42.5°	2142.8	2108.7	1965.5	1668.5	1500.7	1446.6	1450.1	1532.2	1581.1	1739.2	2068.5
45°	2163.8	2127.9	2011.8	1672.8	1576.7	1589.0	1649.2	1665.0	1649.2	1775.0	2109.6
47.5°	2217.0	2139.3	2006.5	1731.4	1699.9	1747.1	1823.9	1858.0	1741.8	1761.9	2128.8
50°	2206.6	2162.0	1995.2	1755.8	1850.2	1975.1	2026.6	2012.6	1844.9	1734.8	2107.8
52.5°	2162.9	2114.8	2030.1	1822.2	1990.8	2141.9	2213.5	2178.6	1936.6	1796.0	2093.9
55°	2226.7	2190.0	2075.5	1912.2	2096.5	2288.7	2339.3	2313.1	2049.3	1852.8	2173.4
57.5°	2295.7	2287.8	2198.7	2017.9	2221.4	2439.8	2439.8	2407.5	2147.2	1934.9	2291.3
60°	2395.2	2412.7	2289.5	2087.8	2264.2	2431.1	2557.7	2520.2	2245.9	2079.0	2424.9
62.5°	2362.9	2418.8	2406.6	2238.0	2313.1	2473.9	2542.9	2570.8	2368.2	2254.6	2603.1
65°	2259.0	2318.4	2405.7	2336.7	2276.4	2369.9	2404.9	2489.6	2429.3	2419.7	2676.5
67.5°	2134.9	2199.6	2253.7	2403.1	2202.2	2264.2	2233.6	2260.7	2362.9	2600.5	2718.5
70°	1864.1	1926.2	2011.8	2255.5	2005.6	1949.7	1941.9	1928.8	2087.8	2535.9	2528.0
72.5°	1533.1	1561.9	1703.4	1833.6	1484.1	1473.7	1485.9	1471.0	1655.4	2295.7	2165.5
75°	1147.8	1176.7	1257.0	1408.1	1010.7	950.4	1020.3	1089.3	1264.0	1782.0	1555.8
77.5°	863.1	899.7	950.4	1053.5	741.6	647.3	656.9	722.4	913.7	1427.4	871.8
80°	559.9	555.6	653.4	725.0	558.2	575.7	551.2	599.2	662.1	763.5	445.5
82.5°	323.2	327.6	368.6	415.8	388.7	444.6	320.6	535.5	472.6	311.0	166.0
85°	181.7	189.6	227.1	288.3	243.7	163.4	133.7	265.6	297.0	127.5	80.4
87.5°	18.3	15.7	30.6	109.2	66.4	27.1	40.2	63.8	71.6	48.0	23.6
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°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1278.0	1278.0	1256.1	1219.5	1204.6	1178.4	1142.6	1153.9	1141.7	1097.2	1085.8
5°	1225.6	1183.6	1138.2	1082.3	1050.0	983.6	962.6	925.1	931.2	893.6	895.4
7.5°	1116.4	1083.2	1006.3	932.9	869.2	811.5	730.3	699.7	670.0	655.2	672.6
10°	1052.6	990.6	885.8	789.7	704.9	653.4	599.2	557.3	518.9	490.1	483.9
12.5°	1006.3	951.3	824.6	707.6	641.2	599.2	549.5	491.8	454.2	404.4	389.6
15°	992.3	925.1	791.4	675.2	610.6	541.6	484.8	428.0	379.1	326.7	308.4
17.5°	1040.4	962.6	790.6	649.0	558.2	483.9	405.3	341.6	291.8	243.7	232.4
20°	1121.6	1002.8	815.9	633.3	508.4	408.8	319.7	255.9	200.0	168.6	160.7
22.5°	1214.2	1071.0	818.5	591.4	458.6	333.7	233.2	168.6	137.1	122.3	117.9
25°	1327.8	1180.2	850.0	557.3	400.1	253.3	166.0	129.3	110.9	102.2	100.5
27.5°	1421.2	1256.1	884.0	521.5	342.4	187.8	130.2	105.7	96.1	87.4	86.5
30°	1518.2	1343.5	893.6	499.7	292.6	154.6	111.8	93.5	83.0	78.6	77.7
32.5°	1602.9	1438.7	924.2	463.8	245.5	136.3	101.3	83.9	76.9	69.9	69.0
35°	1712.1	1493.8	939.1	444.6	228.0	123.2	92.6	76.9	66.4	62.0	60.3
37.5°	1829.2	1547.0	948.7	429.8	213.1	115.3	87.4	72.5	62.9	56.8	55.0
40°	1938.4	1622.2	934.7	411.4	201.8	105.7	83.9	67.3	58.5	52.4	49.8
42.5°	2022.2	1695.5	930.3	394.0	189.6	102.2	79.5	64.6	55.0	48.0	47.2
45°	2069.4	1745.3	899.7	380.0	179.9	104.0	77.7	61.1	52.4	46.3	42.8
47.5°	2058.1	1783.8	907.6	375.6	166.8	97.0	76.9	58.5	48.0	42.8	40.2
50°	2121.0	1861.5	894.5	361.6	157.2	87.4	83.9	58.5	47.2	41.1	38.4
52.5°	2131.4	1932.3	922.5	336.3	142.4	80.4	83.0	57.7	45.4	39.3	35.8
55°	2218.8	2014.4	976.6	322.3	130.2	69.9	76.0	55.9	41.1	35.8	34.1
57.5°	2337.6	2184.7	1011.6	309.2	113.6	61.1	63.8	55.0	37.6	33.2	30.6
60°	2452.0	2252.9	1014.2	285.6	97.8	55.0	49.8	55.0	34.9	29.7	27.1
62.5°	2537.6	2252.9	996.7	265.6	85.6	48.9	43.7	52.4	31.4	26.2	24.5
65°	2491.3	2192.6	951.3	249.0	77.7	42.8	37.6	40.2	28.0	22.7	21.0
67.5°	2408.3	2004.8	850.8	228.9	76.9	37.6	32.3	29.7	24.5	20.1	18.3
70°	2275.6	1751.4	708.4	206.2	75.1	34.1	28.8	25.3	21.8	17.5	15.7
72.5°	1833.6	1446.6	581.8	193.1	73.4	29.7	24.5	21.8	18.3	14.9	13.1
75°	1270.1	924.2	448.1	165.1	71.6	27.1	22.7	19.2	15.7	12.2	11.4
77.5°	761.7	617.6	289.1	124.0	47.2	21.8	19.2	14.9	13.1	10.5	9.6
80°	356.4	291.8	117.1	48.0	22.7	15.7	13.1	11.4	10.5	8.7	7.9
82.5°	139.8	123.2	56.8	28.0	18.3	12.2	10.5	9.6	8.7	7.0	6.1
85°	75.1	66.4	27.1	19.2	13.1	8.7	8.7	7.9	7.0	6.1	5.2
87.5°	16.6	12.2	11.4	11.4	9.6	7.0	7.0	6.1	5.2	4.4	3.5
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°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1079.7	1092.8	1071.8	1084.9	1066.6	1080.6	1082.3	1069.2	1072.7	1090.2	1098.0
5°	919.8	911.1	891.9	885.8	886.6	875.3	879.7	885.8	895.4	900.6	916.3
7.5°	663.0	683.1	682.2	697.1	698.0	696.2	684.0	657.8	666.5	659.5	668.3
10°	474.3	483.1	499.7	509.3	526.7	517.1	489.2	478.7	473.5	472.6	481.3
12.5°	379.1	358.2	356.4	359.9	368.6	357.3	343.3	331.1	337.2	349.4	359.0
15°	293.5	276.0	253.3	249.8	251.6	246.3	231.5	215.8	220.1	232.4	239.3
17.5°	225.4	205.3	189.6	179.1	175.6	157.2	135.4	122.3	118.8	117.9	124.0
20°	152.0	148.5	145.9	132.8	132.8	106.6	88.2	78.6	78.6	80.4	81.2
22.5°	113.6	109.2	110.1	107.4	100.5	79.5	69.9	67.3	67.3	69.0	69.0
25°	98.7	92.6	90.8	90.0	83.0	68.1	61.1	58.5	58.5	60.3	60.3
27.5°	83.9	82.1	79.5	76.0	69.9	58.5	54.2	51.5	52.4	53.3	52.4
30°	76.9	72.5	69.0	69.0	62.0	52.4	48.9	47.2	45.4	47.2	48.0
32.5°	68.1	65.5	63.8	61.1	53.3	46.3	42.8	41.1	40.2	40.2	41.1
35°	58.5	58.5	56.8	53.3	46.3	41.9	37.6	35.8	34.9	35.8	35.8
37.5°	52.4	49.8	50.7	47.2	41.1	36.7	32.3	30.6	30.6	29.7	30.6
40°	48.9	44.6	41.9	40.2	36.7	31.4	28.0	26.2	25.3	25.3	25.3
42.5°	43.7	40.2	34.9	34.1	33.2	27.1	22.7	21.8	21.0	20.1	20.1
45°	41.1	35.8	31.4	27.1	27.1	22.7	19.2	17.5	16.6	15.7	16.6
47.5°	37.6	32.3	27.1	22.7	21.8	18.3	14.9	13.1	12.2	12.2	12.2
50°	35.8	28.8	23.6	19.2	16.6	14.9	11.4	9.6	8.7	8.7	8.7
52.5°	33.2	27.1	21.0	16.6	13.1	11.4	8.7	7.0	6.1	6.1	6.1
55°	29.7	24.5	18.3	14.0	11.4	8.7	6.1	4.4	3.5	3.5	3.5
57.5°	28.0	21.8	15.7	12.2	8.7	6.1	3.5	2.6	2.6	1.7	2.6
60°	25.3	19.2	13.1	9.6	7.0	4.4	2.6	0.9	0.9	0.9	0.9
62.5°	21.8	16.6	11.4	7.9	5.2	2.6	0.9	0.0	0.0	0.0	0.0
65°	18.3	13.1	8.7	6.1	3.5	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	15.7	11.4	7.0	4.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.0	9.6	5.2	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.4	7.9	4.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.6	6.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.9	4.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.1	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.9	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1109.4	1104.2	1130.4	1173.2	1195.0	1237.8	1248.3	1275.4	1268.4	1278.0
5°	918.1	928.6	967.0	1029.9	1052.6	1114.6	1173.2	1231.7	1269.3	1287.6
7.5°	681.4	716.3	763.5	821.1	879.7	960.9	1060.5	1128.6	1165.3	1204.6
10°	507.5	545.1	599.2	656.0	751.2	842.1	941.7	1026.4	1057.9	1094.5
12.5°	399.2	457.7	520.6	581.8	638.6	725.0	848.2	971.4	1005.4	1033.4
15°	277.8	349.4	439.4	518.9	598.4	673.5	801.0	950.4	996.7	1043.9
17.5°	153.7	210.5	313.6	425.4	542.5	657.8	816.8	988.8	1058.7	1091.9
20°	89.1	111.8	185.2	318.0	472.6	623.7	824.6	1061.3	1153.9	1170.5
22.5°	73.4	81.2	104.8	199.2	387.0	601.9	864.8	1162.7	1257.0	1296.3
25°	62.9	69.0	81.2	119.7	292.6	555.6	890.1	1289.3	1376.7	1419.5
27.5°	55.9	62.0	71.6	88.2	199.2	491.8	932.1	1403.8	1491.1	1549.7
30°	48.9	54.2	63.8	75.1	138.0	420.2	967.9	1487.6	1610.8	1629.1
32.5°	43.7	48.0	55.0	64.6	102.2	318.8	996.7	1574.1	1678.1	1718.3
35°	37.6	42.8	47.2	55.0	77.7	240.2	979.2	1641.4	1776.8	1824.8
37.5°	33.2	36.7	41.1	46.3	65.5	187.8	943.4	1721.7	1861.5	1906.1
40°	28.0	30.6	35.8	41.1	59.4	145.0	902.4	1818.7	1980.3	2058.9
42.5°	23.6	26.2	29.7	38.4	48.9	107.4	819.4	1893.8	2076.4	2142.8
45°	18.3	21.8	27.1	38.4	39.3	79.5	733.8	1949.7	2130.6	2163.8
47.5°	14.0	17.5	26.2	33.2	31.4	55.0	632.4	2013.5	2186.5	2217.0
50°	10.5	14.0	29.7	28.8	26.2	41.9	568.7	2058.1	2190.0	2206.6
52.5°	7.0	10.5	24.5	21.8	21.8	36.7	551.2	2056.3	2198.7	2162.9
55°	5.2	7.9	14.0	15.7	19.2	32.3	535.5	2121.8	2201.3	2226.7
57.5°	3.5	6.1	9.6	12.2	16.6	28.0	503.2	2200.4	2282.6	2295.7
60°	1.7	4.4	7.0	9.6	14.0	24.5	457.7	2258.1	2381.3	2395.2
62.5°	0.9	2.6	5.2	7.9	11.4	19.2	410.6	2166.4	2338.5	2362.9
65°	0.0	1.7	3.5	5.2	7.0	14.0	333.7	1955.9	2169.0	2259.0
67.5°	0.0	0.0	1.7	3.5	4.4	10.5	251.6	1779.4	2012.6	2134.9
70°	0.0	0.0	0.9	0.9	2.6	7.9	160.7	1473.7	1796.9	1864.1
72.5°	0.0	0.0	0.0	0.0	0.9	5.2	93.5	1094.5	1408.1	1533.1
75°	0.0	0.0	0.0	0.0	0.0	4.4	47.2	704.1	980.1	1147.8
77.5°	0.0	0.0	0.0	0.0	0.0	3.5	25.3	454.2	722.4	863.1
80°	0.0	0.0	0.0	0.0	0.0	0.9	14.9	263.8	462.1	559.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	129.3	276.0	323.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	69.0	138.0	181.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	9.6	18.3
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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