

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: P677284

Luminaire Tested: **CCW-SA-1C-740-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677284  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-740-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

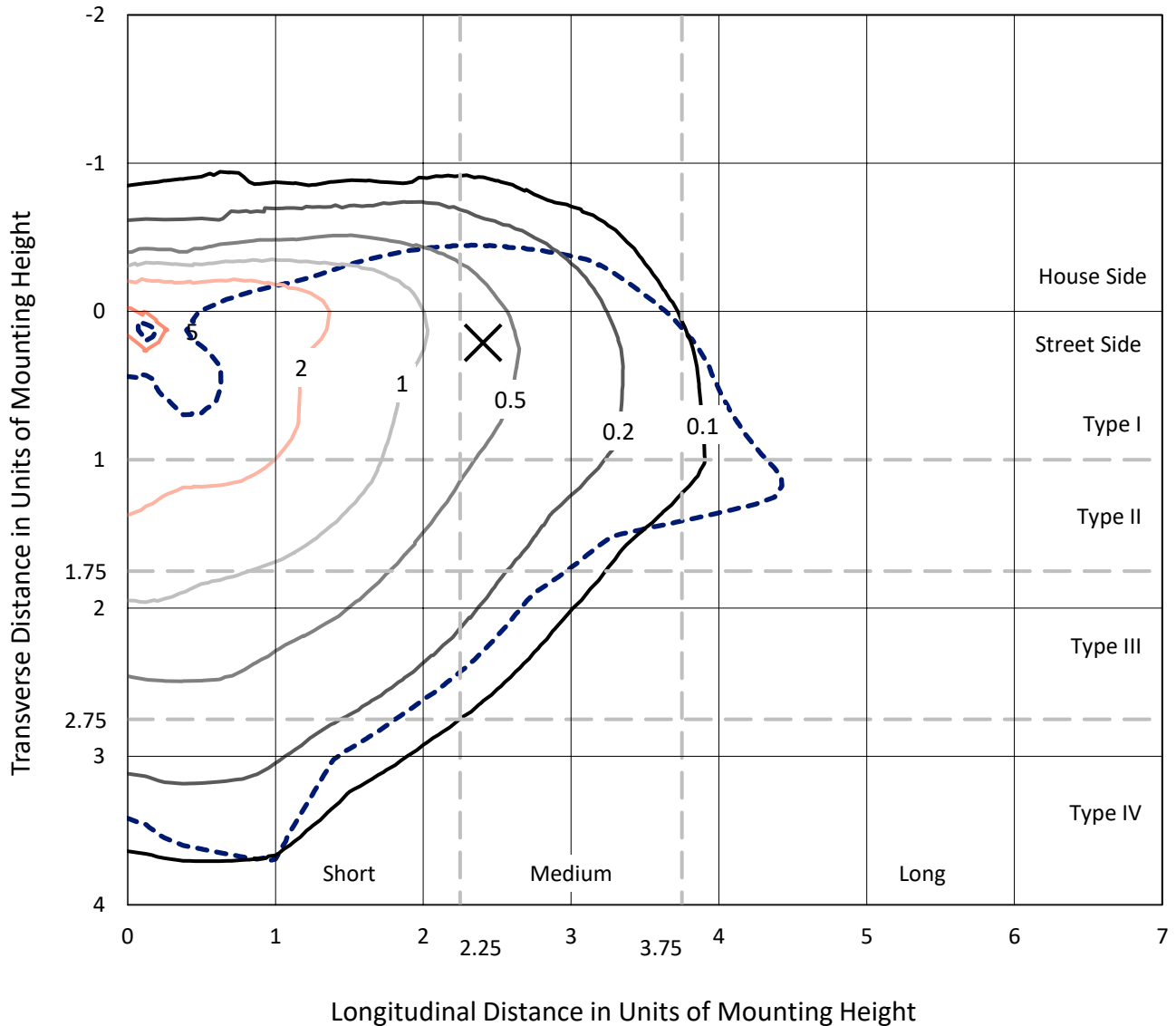
Lumens per Lamp: N/A  
Luminaire Lumens: 3280.4 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

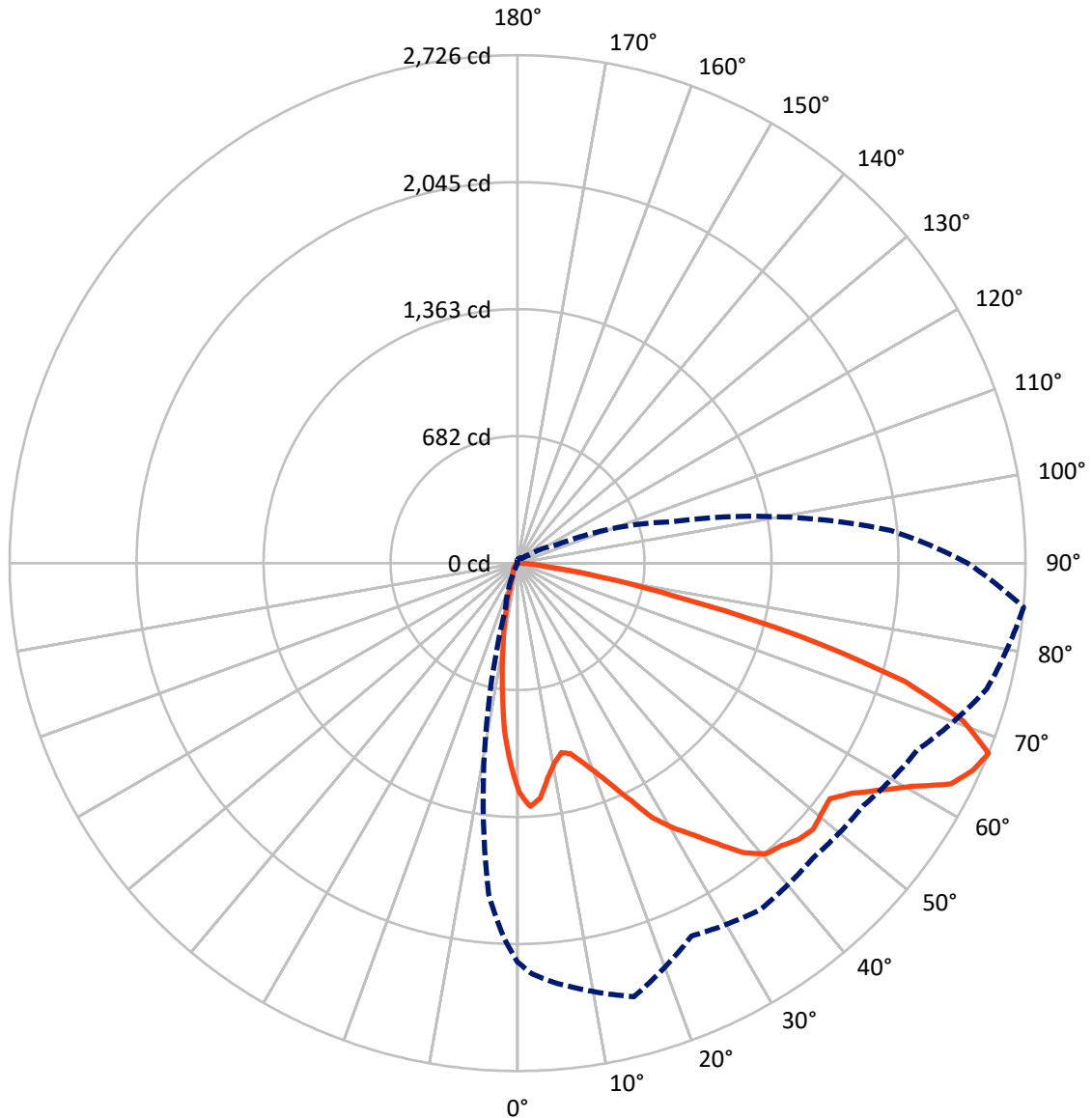
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 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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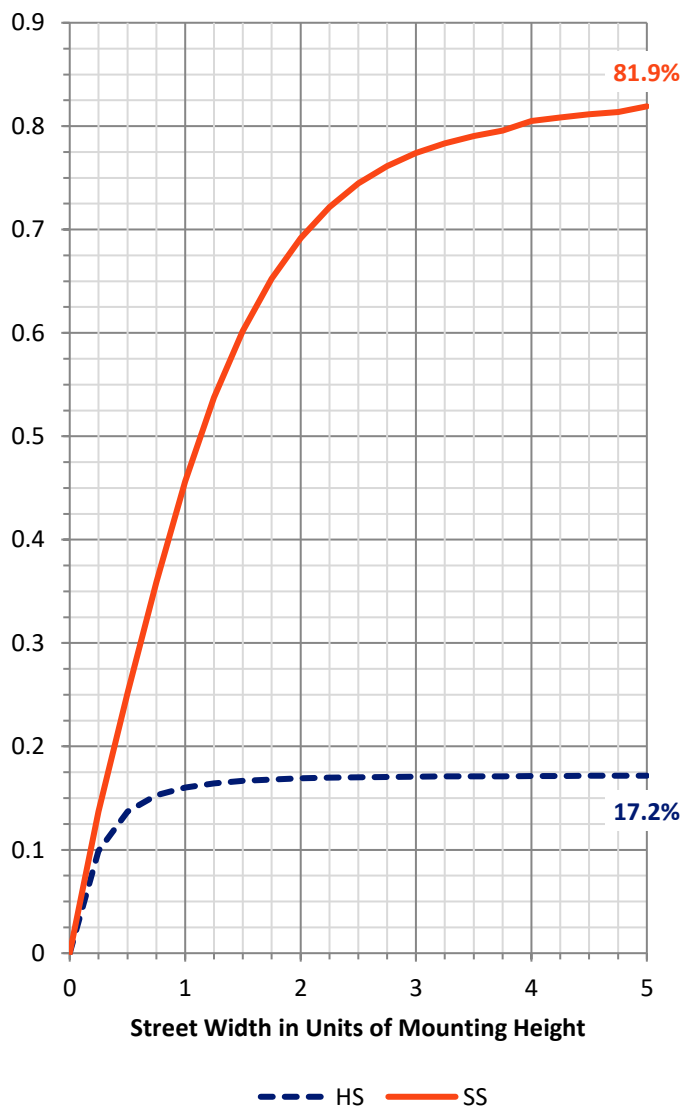
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	569.6	0.0	569.6
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2710.8	0.0	2710.8
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	3280.4	0.0	3280.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	2.9
10°-20°	183.7	5.6
20°-30°	254.3	7.8
30°-40°	359.3	11.0
40°-50°	489.3	14.9
50°-60°	648.0	19.8
60°-70°	752.4	22.9
70°-80°	426.1	13.0
80°-90°	73.6	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°	3280.4	100.0
0°-180°	3280.4	100.0



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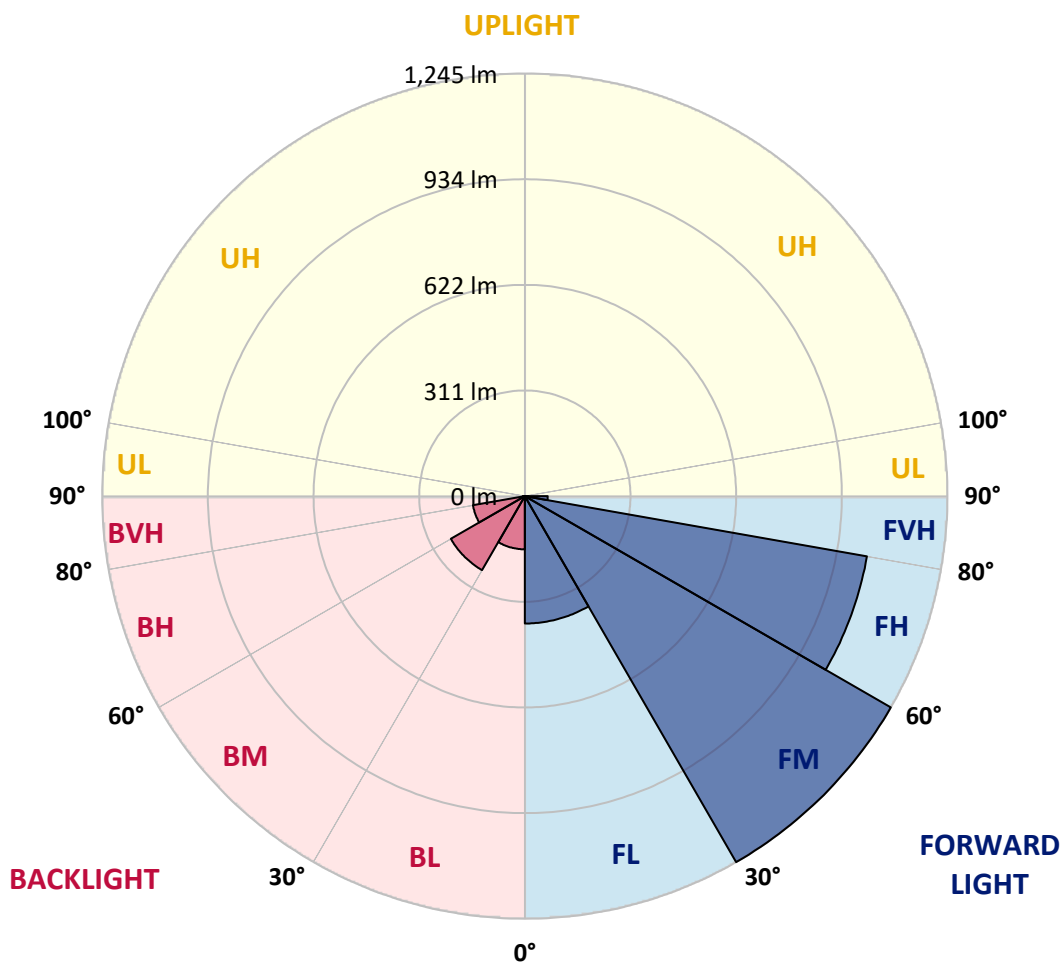
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.1	11.4			
FM (30°-60°)	1244.9	38.0			
FH (60°-80°)	1023.3	31.2			G1/1800
FVH (80°-90°)	67.4	2.1			G1/100
BL (0°-30°)	156.6	4.8	B1/500		
BM (30°-60°)	251.7	7.7	B1/1000		
BH (60°-80°)	155.1	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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1281.6	1308.7	1309.6	1321.9	1334.1	1334.1	1363.0	1356.0	1330.6	1326.2	1307.8
5°	1291.2	1300.8	1307.8	1370.0	1422.6	1417.3	1433.1	1422.6	1373.5	1310.5	1267.6
7.5°	1208.0	1218.5	1246.5	1352.5	1423.5	1447.1	1476.9	1411.2	1359.5	1245.7	1163.3
10°	1097.6	1117.8	1169.4	1290.3	1377.9	1453.3	1453.3	1400.7	1300.8	1189.6	1088.9
12.5°	1036.3	1076.6	1104.6	1227.3	1341.1	1392.8	1391.1	1363.0	1298.2	1158.1	1044.2
15°	1046.8	1058.2	1117.8	1213.2	1288.6	1285.9	1317.5	1308.7	1263.2	1186.1	1060.8
17.5°	1095.0	1112.5	1164.2	1213.2	1249.2	1238.6	1237.8	1279.8	1282.4	1233.4	1123.0
20°	1173.8	1225.5	1250.0	1264.9	1221.1	1176.5	1171.2	1229.9	1275.4	1293.8	1197.5
22.5°	1300.0	1334.1	1384.1	1307.8	1194.0	1137.9	1127.4	1192.2	1284.2	1365.7	1293.8
25°	1423.5	1449.8	1497.9	1399.8	1224.6	1130.0	1111.6	1167.7	1317.5	1465.5	1410.3
27.5°	1554.0	1576.8	1582.0	1467.3	1241.3	1114.3	1092.4	1167.7	1345.5	1518.1	1549.6
30°	1633.7	1660.9	1666.1	1526.8	1268.4	1127.4	1116.9	1172.9	1364.8	1562.8	1649.5
32.5°	1723.1	1730.1	1725.7	1537.4	1298.2	1165.9	1122.1	1208.0	1386.7	1616.2	1740.6
35°	1829.9	1842.2	1797.5	1585.5	1364.8	1190.5	1174.7	1250.9	1424.4	1640.7	1851.0
37.5°	1911.4	1949.9	1849.2	1603.9	1377.9	1242.2	1244.8	1340.3	1450.6	1670.5	1972.7
40°	2064.7	1999.9	1936.8	1667.0	1427.9	1329.7	1315.7	1432.2	1539.1	1689.8	2052.4
42.5°	2148.8	2114.6	1971.0	1673.1	1504.9	1450.6	1454.1	1536.5	1585.5	1744.1	2074.3
45°	2169.8	2133.9	2017.4	1677.5	1581.2	1593.4	1653.9	1669.6	1653.9	1780.0	2115.5
47.5°	2223.3	2145.3	2012.1	1736.2	1704.7	1752.0	1829.1	1863.2	1746.7	1766.9	2134.8
50°	2212.7	2168.1	2000.8	1760.7	1855.3	1980.6	2032.3	2018.3	1850.1	1739.7	2113.8
52.5°	2168.9	2120.8	2035.8	1827.3	1996.4	2147.9	2219.8	2184.7	1942.1	1801.0	2099.7
55°	2232.9	2196.1	2081.3	1917.5	2102.4	2295.1	2345.9	2319.6	2055.1	1858.0	2179.5
57.5°	2302.1	2294.2	2204.9	2023.5	2227.6	2446.6	2446.6	2414.2	2153.2	1940.3	2297.7
60°	2402.0	2419.5	2296.0	2093.6	2270.6	2437.9	2564.9	2527.2	2252.2	2084.9	2431.7
62.5°	2369.5	2425.6	2413.3	2244.3	2319.6	2480.8	2550.0	2578.0	2374.8	2260.9	2610.4
65°	2265.3	2324.9	2412.5	2343.3	2282.8	2376.6	2411.6	2496.6	2436.1	2426.5	2684.0
67.5°	2140.9	2205.7	2260.0	2409.8	2208.4	2270.6	2239.9	2267.1	2369.5	2607.8	2726.1
70°	1869.4	1931.6	2017.4	2261.8	2011.3	1955.2	1947.3	1934.2	2093.6	2543.0	2535.1
72.5°	1537.4	1566.3	1708.2	1838.7	1488.3	1477.8	1490.1	1475.2	1660.0	2302.1	2171.6
75°	1151.0	1180.0	1260.5	1412.1	1013.5	953.1	1023.2	1092.4	1267.6	1787.0	1560.1
77.5°	865.5	902.3	953.1	1056.4	743.7	649.1	658.7	724.4	916.3	1431.4	874.2
80°	561.5	557.1	655.2	727.1	559.8	577.3	552.7	600.9	664.0	765.6	446.8
82.5°	324.1	328.5	369.7	417.0	389.8	445.9	321.5	537.0	473.9	311.9	166.4
85°	182.2	190.1	227.8	289.1	244.4	163.8	134.0	266.3	297.8	127.9	80.6
87.5°	18.4	15.8	30.7	109.5	66.6	27.2	40.3	63.9	71.8	48.2	23.7
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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1281.6	1281.6	1259.7	1222.9	1208.0	1181.7	1145.8	1157.2	1144.9	1100.2	1088.9
5°	1229.0	1187.0	1141.4	1085.3	1052.9	986.4	965.3	927.7	933.8	896.1	897.9
7.5°	1119.5	1086.2	1009.1	935.6	871.6	813.8	732.3	701.7	671.9	657.0	674.5
10°	1055.6	993.4	888.3	791.9	706.9	655.2	600.9	558.9	520.3	491.4	485.3
12.5°	1009.1	954.0	826.9	709.6	643.0	600.9	551.0	493.2	455.5	405.6	390.7
15°	995.1	927.7	793.6	677.1	612.3	543.1	486.2	429.2	380.2	327.6	309.2
17.5°	1043.3	965.3	792.8	650.9	559.8	485.3	406.5	342.5	292.6	244.4	233.0
20°	1124.8	1005.6	818.2	635.1	509.8	410.0	320.6	256.7	200.6	169.1	161.2
22.5°	1217.6	1074.0	820.8	593.0	459.9	334.6	233.9	169.1	137.5	122.6	118.3
25°	1331.5	1183.5	852.3	558.9	401.2	254.0	166.4	129.6	111.3	102.5	100.7
27.5°	1425.2	1259.7	886.5	523.0	343.4	188.3	130.5	106.0	96.4	87.6	86.7
30°	1522.5	1347.3	896.1	501.1	293.5	155.0	112.1	93.7	83.2	78.8	78.0
32.5°	1607.4	1442.8	926.8	465.1	246.2	136.7	101.6	84.1	77.1	70.1	69.2
35°	1716.9	1497.9	941.7	445.9	228.6	123.5	92.9	77.1	66.6	62.2	60.4
37.5°	1834.3	1551.4	951.3	431.0	213.7	115.6	87.6	72.7	63.1	56.9	55.2
40°	1943.8	1626.7	937.3	412.6	202.4	106.0	84.1	67.5	58.7	52.6	49.9
42.5°	2027.9	1700.3	932.9	395.1	190.1	102.5	79.7	64.8	55.2	48.2	47.3
45°	2075.2	1750.2	902.3	381.1	180.5	104.2	78.0	61.3	52.6	46.4	42.9
47.5°	2063.8	1788.8	910.2	376.7	167.3	97.2	77.1	58.7	48.2	42.9	40.3
50°	2126.9	1866.7	897.0	362.7	157.7	87.6	84.1	58.7	47.3	41.2	38.5
52.5°	2137.4	1937.7	925.0	337.3	142.8	80.6	83.2	57.8	45.6	39.4	35.9
55°	2225.0	2020.0	979.4	323.2	130.5	70.1	76.2	56.1	41.2	35.9	34.2
57.5°	2344.1	2190.8	1014.4	310.1	113.9	61.3	63.9	55.2	37.7	33.3	30.7
60°	2458.9	2259.2	1017.0	286.4	98.1	55.2	49.9	55.2	35.0	29.8	27.2
62.5°	2544.7	2259.2	999.5	266.3	85.8	49.1	43.8	52.6	31.5	26.3	24.5
65°	2498.3	2198.7	954.0	249.7	78.0	42.9	37.7	40.3	28.0	22.8	21.0
67.5°	2415.1	2010.4	853.2	229.5	77.1	37.7	32.4	29.8	24.5	20.1	18.4
70°	2281.9	1756.4	710.4	206.7	75.3	34.2	28.9	25.4	21.9	17.5	15.8
72.5°	1838.7	1450.6	583.4	193.6	73.6	29.8	24.5	21.9	18.4	14.9	13.1
75°	1273.7	926.8	449.4	165.6	71.8	27.2	22.8	19.3	15.8	12.3	11.4
77.5°	763.9	619.3	290.0	124.4	47.3	21.9	19.3	14.9	13.1	10.5	9.6
80°	357.4	292.6	117.4	48.2	22.8	15.8	13.1	11.4	10.5	8.8	7.9
82.5°	140.2	123.5	56.9	28.0	18.4	12.3	10.5	9.6	8.8	7.0	6.1
85°	75.3	66.6	27.2	19.3	13.1	8.8	8.8	7.9	7.0	6.1	5.3
87.5°	16.6	12.3	11.4	11.4	9.6	7.0	7.0	6.1	5.3	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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1082.7	1095.9	1074.8	1088.0	1069.6	1083.6	1085.3	1072.2	1075.7	1093.2	1101.1
5°	922.4	913.7	894.4	888.3	889.1	877.7	882.1	888.3	897.9	903.1	918.9
7.5°	664.9	685.0	684.1	699.0	699.9	698.2	685.9	659.6	668.4	661.4	670.1
10°	475.7	484.4	501.1	510.7	528.2	518.6	490.6	480.0	474.8	473.9	482.7
12.5°	380.2	359.2	357.4	360.9	369.7	358.3	344.3	332.0	338.1	350.4	360.0
15°	294.3	276.8	254.0	250.5	252.3	247.0	232.1	216.4	220.7	233.0	240.0
17.5°	226.0	205.9	190.1	179.6	176.1	157.7	135.8	122.6	119.1	118.3	124.4
20°	152.4	148.9	146.3	133.2	133.2	106.9	88.5	78.8	78.8	80.6	81.5
22.5°	113.9	109.5	110.4	107.7	100.7	79.7	70.1	67.5	67.5	69.2	69.2
25°	99.0	92.9	91.1	90.2	83.2	68.3	61.3	58.7	58.7	60.4	60.4
27.5°	84.1	82.3	79.7	76.2	70.1	58.7	54.3	51.7	52.6	53.4	52.6
30°	77.1	72.7	69.2	69.2	62.2	52.6	49.1	47.3	45.6	47.3	48.2
32.5°	68.3	65.7	63.9	61.3	53.4	46.4	42.9	41.2	40.3	40.3	41.2
35°	58.7	58.7	56.9	53.4	46.4	42.0	37.7	35.9	35.0	35.9	35.9
37.5°	52.6	49.9	50.8	47.3	41.2	36.8	32.4	30.7	30.7	29.8	30.7
40°	49.1	44.7	42.0	40.3	36.8	31.5	28.0	26.3	25.4	25.4	25.4
42.5°	43.8	40.3	35.0	34.2	33.3	27.2	22.8	21.9	21.0	20.1	20.1
45°	41.2	35.9	31.5	27.2	27.2	22.8	19.3	17.5	16.6	15.8	16.6
47.5°	37.7	32.4	27.2	22.8	21.9	18.4	14.9	13.1	12.3	12.3	12.3
50°	35.9	28.9	23.7	19.3	16.6	14.9	11.4	9.6	8.8	8.8	8.8
52.5°	33.3	27.2	21.0	16.6	13.1	11.4	8.8	7.0	6.1	6.1	6.1
55°	29.8	24.5	18.4	14.0	11.4	8.8	6.1	4.4	3.5	3.5	3.5
57.5°	28.0	21.9	15.8	12.3	8.8	6.1	3.5	2.6	2.6	1.8	2.6
60°	25.4	19.3	13.1	9.6	7.0	4.4	2.6	0.9	0.9	0.9	0.9
62.5°	21.9	16.6	11.4	7.9	5.3	2.6	0.9	0.0	0.0	0.0	0.0
65°	18.4	13.1	8.8	6.1	3.5	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	15.8	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	5.3	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.4	7.9	4.4	1.8	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	1.8	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°	5.3	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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1112.5	1107.2	1133.5	1176.5	1198.4	1241.3	1251.8	1278.9	1271.9	1281.6
5°	920.7	931.2	969.7	1032.8	1055.6	1117.8	1176.5	1235.1	1272.8	1291.2
7.5°	683.3	718.3	765.6	823.4	882.1	963.6	1063.4	1131.8	1168.6	1208.0
10°	508.9	546.6	600.9	657.9	753.3	844.5	944.3	1029.3	1060.8	1097.6
12.5°	400.3	459.0	522.1	583.4	640.3	727.1	850.6	974.1	1008.3	1036.3
15°	278.6	350.4	440.6	520.3	600.1	675.4	803.3	953.1	999.5	1046.8
17.5°	154.2	211.1	314.5	426.6	544.0	659.6	819.0	991.6	1061.7	1095.0
20°	89.4	112.1	185.7	318.9	473.9	625.5	826.9	1064.3	1157.2	1173.8
22.5°	73.6	81.5	105.1	199.7	388.1	603.6	867.2	1165.9	1260.5	1300.0
25°	63.1	69.2	81.5	120.0	293.5	557.1	892.6	1293.0	1380.6	1423.5
27.5°	56.1	62.2	71.8	88.5	199.7	493.2	934.7	1407.7	1495.3	1554.0
30°	49.1	54.3	63.9	75.3	138.4	421.4	970.6	1491.8	1615.3	1633.7
32.5°	43.8	48.2	55.2	64.8	102.5	319.7	999.5	1578.5	1682.8	1723.1
35°	37.7	42.9	47.3	55.2	78.0	240.9	982.0	1646.0	1781.8	1829.9
37.5°	33.3	36.8	41.2	46.4	65.7	188.3	946.1	1726.6	1866.7	1911.4
40°	28.0	30.7	35.9	41.2	59.6	145.4	904.9	1823.8	1985.9	2064.7
42.5°	23.7	26.3	29.8	38.5	49.1	107.7	821.7	1899.1	2082.2	2148.8
45°	18.4	21.9	27.2	38.5	39.4	79.7	735.8	1955.2	2136.5	2169.8
47.5°	14.0	17.5	26.3	33.3	31.5	55.2	634.2	2019.2	2192.6	2223.3
50°	10.5	14.0	29.8	28.9	26.3	42.0	570.3	2063.8	2196.1	2212.7
52.5°	7.0	10.5	24.5	21.9	21.9	36.8	552.7	2062.1	2204.9	2168.9
55°	5.3	7.9	14.0	15.8	19.3	32.4	537.0	2127.8	2207.5	2232.9
57.5°	3.5	6.1	9.6	12.3	16.6	28.0	504.6	2206.6	2289.0	2302.1
60°	1.8	4.4	7.0	9.6	14.0	24.5	459.0	2264.4	2387.9	2402.0
62.5°	0.9	2.6	5.3	7.9	11.4	19.3	411.7	2172.4	2345.0	2369.5
65°	0.0	1.8	3.5	5.3	7.0	14.0	334.6	1961.3	2175.1	2265.3
67.5°	0.0	0.0	1.8	3.5	4.4	10.5	252.3	1784.4	2018.3	2140.9
70°	0.0	0.0	0.9	0.9	2.6	7.9	161.2	1477.8	1801.9	1869.4
72.5°	0.0	0.0	0.0	0.0	0.9	5.3	93.7	1097.6	1412.1	1537.4
75°	0.0	0.0	0.0	0.0	0.0	4.4	47.3	706.0	982.9	1151.0
77.5°	0.0	0.0	0.0	0.0	0.0	3.5	25.4	455.5	724.4	865.5
80°	0.0	0.0	0.0	0.0	0.0	0.9	14.9	264.5	463.4	561.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	129.6	276.8	324.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	69.2	138.4	182.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	9.6	18.4
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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