

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: P677317

Luminaire Tested: **CCW-SA-1C-827-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677317  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-827-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) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

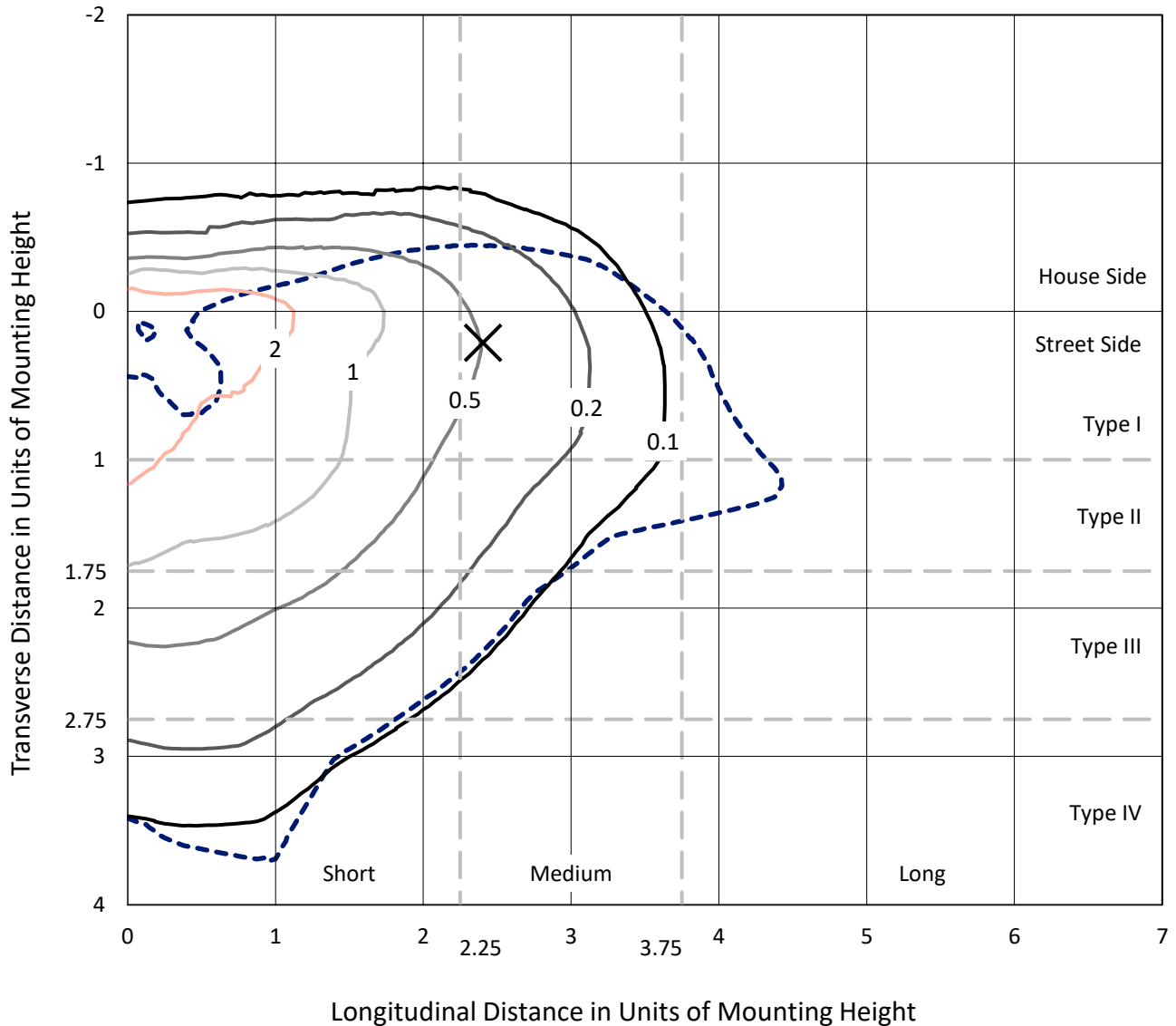
Lumens per Lamp: N/A  
Luminaire Lumens: 2411.4 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (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

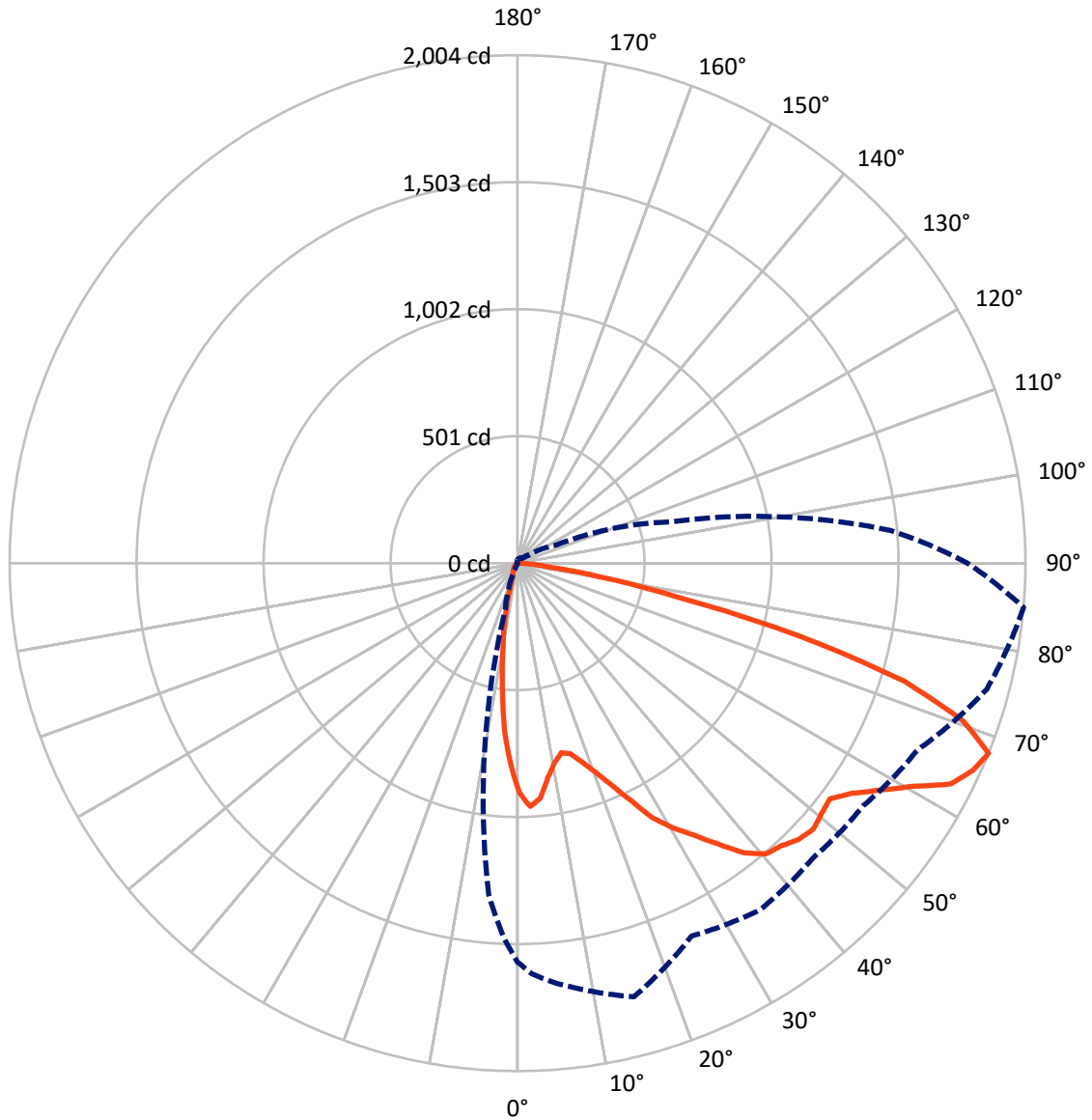
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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	418.7	0.0	418.7
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	1992.7	0.0	1992.7
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	2411.4	0.0	2411.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	2.9
10°-20°	135.1	5.6
20°-30°	186.9	7.8
30°-40°	264.2	11.0
40°-50°	359.7	14.9
50°-60°	476.3	19.8
60°-70°	553.1	22.9
70°-80°	313.2	13.0
80°-90°	54.1	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°	2411.4	100.0
0°-180°	2411.4	100.0



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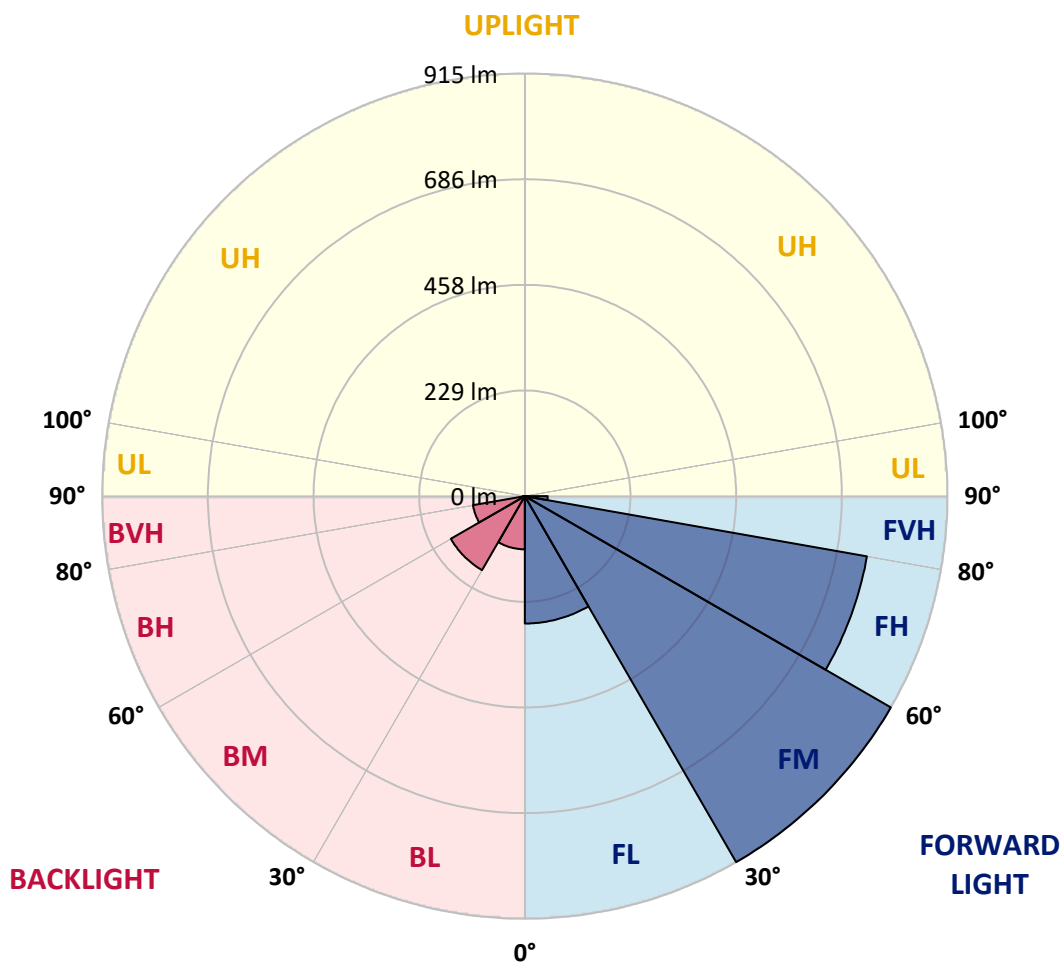
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.8	11.4			
FM (30°-60°)	915.1	38.0			
FH (60°-80°)	752.2	31.2			G1/1800
FVH (80°-90°)	49.6	2.1			G1/100
BL (0°-30°)	115.1	4.8	B1/500		
BM (30°-60°)	185.0	7.7	B0/220		
BH (60°-80°)	114.0	4.7	B1/500		G1/500
BVH (80°-90°)	4.6	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°	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7
2.5°	942.1	962.0	962.7	971.7	980.7	980.7	1002.0	996.8	978.1	974.9	961.4
5°	949.2	956.2	961.4	1007.1	1045.8	1041.9	1053.5	1045.8	1009.7	963.3	931.8
7.5°	888.0	895.7	916.3	994.2	1046.4	1063.8	1085.7	1037.4	999.4	915.7	855.2
10°	806.9	821.7	859.7	948.5	1012.9	1068.3	1068.3	1029.7	956.2	874.5	800.4
12.5°	761.8	791.4	812.0	902.2	985.9	1023.9	1022.6	1002.0	954.3	851.3	767.6
15°	769.5	777.9	821.7	891.9	947.2	945.3	968.5	962.0	928.6	871.9	779.8
17.5°	804.9	817.8	855.8	891.9	918.3	910.5	909.9	940.8	942.7	906.7	825.5
20°	862.9	900.9	918.9	929.8	897.7	864.8	860.9	904.1	937.6	951.1	880.3
22.5°	955.6	980.7	1017.4	961.4	877.7	836.5	828.7	876.4	944.0	1003.9	951.1
25°	1046.4	1065.7	1101.1	1029.0	900.2	830.7	817.2	858.4	968.5	1077.3	1036.7
27.5°	1142.3	1159.1	1163.0	1078.6	912.5	819.1	803.0	858.4	989.1	1115.9	1139.1
30°	1200.9	1220.9	1224.8	1122.4	932.4	828.7	821.0	862.2	1003.3	1148.8	1212.5
32.5°	1266.6	1271.8	1268.6	1130.1	954.3	857.1	824.9	888.0	1019.4	1188.1	1279.5
35°	1345.2	1354.2	1321.4	1165.5	1003.3	875.1	863.5	919.5	1047.0	1206.1	1360.6
37.5°	1405.1	1433.4	1359.4	1179.1	1012.9	913.1	915.0	985.2	1066.4	1228.0	1450.1
40°	1517.8	1470.1	1423.7	1225.4	1049.6	977.5	967.2	1052.8	1131.4	1242.2	1508.7
42.5°	1579.6	1554.5	1448.9	1229.9	1106.3	1066.4	1068.9	1129.5	1165.5	1282.1	1524.8
45°	1595.0	1568.6	1483.0	1233.1	1162.3	1171.3	1215.8	1227.3	1215.8	1308.5	1555.1
47.5°	1634.3	1577.0	1479.1	1276.3	1253.1	1287.9	1344.5	1369.7	1284.0	1298.8	1569.3
50°	1626.6	1593.7	1470.8	1294.3	1363.9	1455.9	1493.9	1483.6	1360.0	1278.9	1553.8
52.5°	1594.4	1559.0	1496.5	1343.3	1467.5	1578.9	1631.7	1606.0	1427.6	1323.9	1543.5
55°	1641.4	1614.4	1530.0	1409.6	1545.5	1687.1	1724.5	1705.1	1510.7	1365.8	1602.1
57.5°	1692.3	1686.5	1620.8	1487.5	1637.5	1798.5	1798.5	1774.7	1582.8	1426.3	1689.1
60°	1765.7	1778.6	1687.8	1539.0	1669.1	1792.1	1885.5	1857.8	1655.6	1532.6	1787.6
62.5°	1741.9	1783.1	1774.1	1649.8	1705.1	1823.6	1874.5	1895.1	1745.7	1662.0	1918.9
65°	1665.2	1709.0	1773.4	1722.5	1678.1	1747.0	1772.8	1835.2	1790.8	1783.7	1973.0
67.5°	1573.8	1621.4	1661.4	1771.5	1623.4	1669.1	1646.6	1666.5	1741.9	1917.0	2003.9
70°	1374.2	1419.9	1483.0	1662.6	1478.5	1437.3	1431.5	1421.8	1539.0	1869.4	1863.6
72.5°	1130.1	1151.4	1255.7	1351.6	1094.1	1086.3	1095.3	1084.4	1220.3	1692.3	1596.3
75°	846.1	867.4	926.6	1038.0	745.0	700.6	752.1	803.0	931.8	1313.6	1146.9
77.5°	636.2	663.3	700.6	776.6	546.7	477.2	484.2	532.5	673.6	1052.2	642.7
80°	412.8	409.5	481.7	534.5	411.5	424.4	406.3	441.7	488.1	562.8	328.4
82.5°	238.3	241.5	271.7	306.5	286.6	327.8	236.3	394.7	348.4	229.2	122.3
85°	133.9	139.7	167.4	212.5	179.7	120.4	98.5	195.8	218.9	94.0	59.2
87.5°	13.5	11.6	22.5	80.5	48.9	20.0	29.6	47.0	52.8	35.4	17.4
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°	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7
2.5°	942.1	942.1	926.0	898.9	888.0	868.7	842.3	850.6	841.6	808.8	800.4
5°	903.4	872.5	839.1	797.8	774.0	725.1	709.6	681.9	686.4	658.7	660.0
7.5°	823.0	798.5	741.8	687.7	640.7	598.2	538.3	515.8	493.9	483.0	495.8
10°	775.9	730.2	653.0	582.1	519.7	481.7	441.7	410.8	382.5	361.2	356.7
12.5°	741.8	701.2	607.9	521.6	472.7	441.7	405.0	362.5	334.8	298.1	287.2
15°	731.5	681.9	583.4	497.8	450.1	399.2	357.4	315.5	279.5	240.8	227.3
17.5°	766.9	709.6	582.8	478.4	411.5	356.7	298.8	251.8	215.1	179.7	171.3
20°	826.8	739.2	601.4	466.9	374.8	301.4	235.7	188.7	147.5	124.3	118.5
22.5°	895.1	789.5	603.4	435.9	338.1	246.0	171.9	124.3	101.1	90.2	86.9
25°	978.8	870.0	626.6	410.8	294.9	186.7	122.3	95.3	81.8	75.3	74.1
27.5°	1047.7	926.0	651.7	384.4	252.4	138.4	95.9	77.9	70.8	64.4	63.7
30°	1119.2	990.4	658.7	368.3	215.7	114.0	82.4	68.9	61.2	58.0	57.3
32.5°	1181.6	1060.6	681.3	341.9	180.9	100.5	74.7	61.8	56.7	51.5	50.9
35°	1262.1	1101.1	692.2	327.8	168.1	90.8	68.3	56.7	48.9	45.7	44.4
37.5°	1348.4	1140.4	699.3	316.8	157.1	85.0	64.4	53.4	46.4	41.9	40.6
40°	1428.9	1195.8	689.0	303.3	148.7	77.9	61.8	49.6	43.1	38.6	36.7
42.5°	1490.7	1249.9	685.8	290.4	139.7	75.3	58.6	47.7	40.6	35.4	34.8
45°	1525.5	1286.6	663.3	280.1	132.7	76.6	57.3	45.1	38.6	34.1	31.6
47.5°	1517.1	1314.9	669.1	276.9	123.0	71.5	56.7	43.1	35.4	31.6	29.6
50°	1563.5	1372.2	659.4	266.6	115.9	64.4	61.8	43.1	34.8	30.3	28.3
52.5°	1571.2	1424.4	680.0	247.9	105.0	59.2	61.2	42.5	33.5	29.0	26.4
55°	1635.6	1484.9	719.9	237.6	95.9	51.5	56.0	41.2	30.3	26.4	25.1
57.5°	1723.2	1610.5	745.7	228.0	83.7	45.1	47.0	40.6	27.7	24.5	22.5
60°	1807.5	1660.7	747.6	210.6	72.1	40.6	36.7	40.6	25.8	21.9	20.0
62.5°	1870.6	1660.7	734.7	195.8	63.1	36.1	32.2	38.6	23.2	19.3	18.0
65°	1836.5	1616.3	701.2	183.5	57.3	31.6	27.7	29.6	20.6	16.7	15.5
67.5°	1775.3	1477.8	627.2	168.7	56.7	27.7	23.8	21.9	18.0	14.8	13.5
70°	1677.5	1291.1	522.2	152.0	55.4	25.1	21.2	18.7	16.1	12.9	11.6
72.5°	1351.6	1066.4	428.9	142.3	54.1	21.9	18.0	16.1	13.5	10.9	9.7
75°	936.3	681.3	330.3	121.7	52.8	20.0	16.7	14.2	11.6	9.0	8.4
77.5°	561.5	455.3	213.1	91.4	34.8	16.1	14.2	10.9	9.7	7.7	7.1
80°	262.7	215.1	86.3	35.4	16.7	11.6	9.7	8.4	7.7	6.4	5.8
82.5°	103.0	90.8	41.9	20.6	13.5	9.0	7.7	7.1	6.4	5.2	4.5
85°	55.4	48.9	20.0	14.2	9.7	6.4	6.4	5.8	5.2	4.5	3.9
87.5°	12.2	9.0	8.4	8.4	7.1	5.2	5.2	4.5	3.9	3.2	2.6
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7
2.5°	795.9	805.6	790.1	799.8	786.2	796.6	797.8	788.2	790.8	803.6	809.4
5°	678.1	671.6	657.5	653.0	653.6	645.2	648.4	653.0	660.0	663.9	675.5
7.5°	488.7	503.6	502.9	513.9	514.5	513.2	504.2	484.9	491.3	486.2	492.6
10°	349.7	356.1	368.3	375.4	388.3	381.2	360.6	352.9	349.0	348.4	354.8
12.5°	279.5	264.0	262.7	265.3	271.7	263.4	253.1	244.1	248.6	257.6	264.7
15°	216.4	203.5	186.7	184.2	185.5	181.6	170.6	159.1	162.3	171.3	176.4
17.5°	166.1	151.3	139.7	132.0	129.4	115.9	99.8	90.2	87.6	86.9	91.4
20°	112.0	109.5	107.5	97.9	97.9	78.6	65.0	58.0	58.0	59.2	59.9
22.5°	83.7	80.5	81.1	79.2	74.1	58.6	51.5	49.6	49.6	50.9	50.9
25°	72.8	68.3	67.0	66.3	61.2	50.2	45.1	43.1	43.1	44.4	44.4
27.5°	61.8	60.5	58.6	56.0	51.5	43.1	39.9	38.0	38.6	39.3	38.6
30°	56.7	53.4	50.9	50.9	45.7	38.6	36.1	34.8	33.5	34.8	35.4
32.5°	50.2	48.3	47.0	45.1	39.3	34.1	31.6	30.3	29.6	29.6	30.3
35°	43.1	43.1	41.9	39.3	34.1	30.9	27.7	26.4	25.8	26.4	26.4
37.5°	38.6	36.7	37.3	34.8	30.3	27.0	23.8	22.5	22.5	21.9	22.5
40°	36.1	32.8	30.9	29.6	27.0	23.2	20.6	19.3	18.7	18.7	18.7
42.5°	32.2	29.6	25.8	25.1	24.5	20.0	16.7	16.1	15.5	14.8	14.8
45°	30.3	26.4	23.2	20.0	20.0	16.7	14.2	12.9	12.2	11.6	12.2
47.5°	27.7	23.8	20.0	16.7	16.1	13.5	10.9	9.7	9.0	9.0	9.0
50°	26.4	21.2	17.4	14.2	12.2	10.9	8.4	7.1	6.4	6.4	6.4
52.5°	24.5	20.0	15.5	12.2	9.7	8.4	6.4	5.2	4.5	4.5	4.5
55°	21.9	18.0	13.5	10.3	8.4	6.4	4.5	3.2	2.6	2.6	2.6
57.5°	20.6	16.1	11.6	9.0	6.4	4.5	2.6	1.9	1.9	1.3	1.9
60°	18.7	14.2	9.7	7.1	5.2	3.2	1.9	0.6	0.6	0.6	0.6
62.5°	16.1	12.2	8.4	5.8	3.9	1.9	0.6	0.0	0.0	0.0	0.0
65°	13.5	9.7	6.4	4.5	2.6	0.6	0.0	0.0	0.0	0.0	0.0
67.5°	11.6	8.4	5.2	3.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.3	7.1	3.9	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.4	5.8	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.1	4.5	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.8	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.6	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°	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7	906.7
2.5°	817.8	813.9	833.3	864.8	880.9	912.5	920.2	940.2	935.0	942.1
5°	676.8	684.5	712.8	759.2	775.9	821.7	864.8	908.0	935.6	949.2
7.5°	502.3	528.0	562.8	605.3	648.4	708.3	781.7	832.0	859.0	888.0
10°	374.1	401.8	441.7	483.6	553.8	620.8	694.2	756.6	779.8	806.9
12.5°	294.3	337.4	383.8	428.9	470.7	534.5	625.3	716.1	741.2	761.8
15°	204.8	257.6	323.9	382.5	441.1	496.5	590.5	700.6	734.7	769.5
17.5°	113.3	155.2	231.2	313.6	399.9	484.9	602.1	728.9	780.5	804.9
20°	65.7	82.4	136.5	234.4	348.4	459.8	607.9	782.4	850.6	862.9
22.5°	54.1	59.9	77.3	146.8	285.3	443.7	637.5	857.1	926.6	955.6
25°	46.4	50.9	59.9	88.2	215.7	409.5	656.2	950.5	1014.8	1046.4
27.5°	41.2	45.7	52.8	65.0	146.8	362.5	687.1	1034.8	1099.2	1142.3
30°	36.1	39.9	47.0	55.4	101.7	309.7	713.5	1096.6	1187.4	1200.9
32.5°	32.2	35.4	40.6	47.7	75.3	235.0	734.7	1160.4	1237.0	1266.6
35°	27.7	31.6	34.8	40.6	57.3	177.1	721.9	1210.0	1309.8	1345.2
37.5°	24.5	27.0	30.3	34.1	48.3	138.4	695.5	1269.2	1372.2	1405.1
40°	20.6	22.5	26.4	30.3	43.8	106.9	665.2	1340.7	1459.8	1517.8
42.5°	17.4	19.3	21.9	28.3	36.1	79.2	604.0	1396.1	1530.6	1579.6
45°	13.5	16.1	20.0	28.3	29.0	58.6	540.9	1437.3	1570.6	1595.0
47.5°	10.3	12.9	19.3	24.5	23.2	40.6	466.2	1484.3	1611.8	1634.3
50°	7.7	10.3	21.9	21.2	19.3	30.9	419.2	1517.1	1614.4	1626.6
52.5°	5.2	7.7	18.0	16.1	16.1	27.0	406.3	1515.8	1620.8	1594.4
55°	3.9	5.8	10.3	11.6	14.2	23.8	394.7	1564.1	1622.7	1641.4
57.5°	2.6	4.5	7.1	9.0	12.2	20.6	370.9	1622.1	1682.6	1692.3
60°	1.3	3.2	5.2	7.1	10.3	18.0	337.4	1664.6	1755.4	1765.7
62.5°	0.6	1.9	3.9	5.8	8.4	14.2	302.7	1597.0	1723.8	1741.9
65°	0.0	1.3	2.6	3.9	5.2	10.3	246.0	1441.8	1598.9	1665.2
67.5°	0.0	0.0	1.3	2.6	3.2	7.7	185.5	1311.7	1483.6	1573.8
70°	0.0	0.0	0.6	0.6	1.9	5.8	118.5	1086.3	1324.6	1374.2
72.5°	0.0	0.0	0.0	0.0	0.6	3.9	68.9	806.9	1038.0	1130.1
75°	0.0	0.0	0.0	0.0	0.0	3.2	34.8	519.0	722.5	846.1
77.5°	0.0	0.0	0.0	0.0	0.0	2.6	18.7	334.8	532.5	636.2
80°	0.0	0.0	0.0	0.0	0.0	0.6	10.9	194.5	340.6	412.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	95.3	203.5	238.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	50.9	101.7	133.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	7.1	13.5
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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