

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: P675877

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675877  
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  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
SLL distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

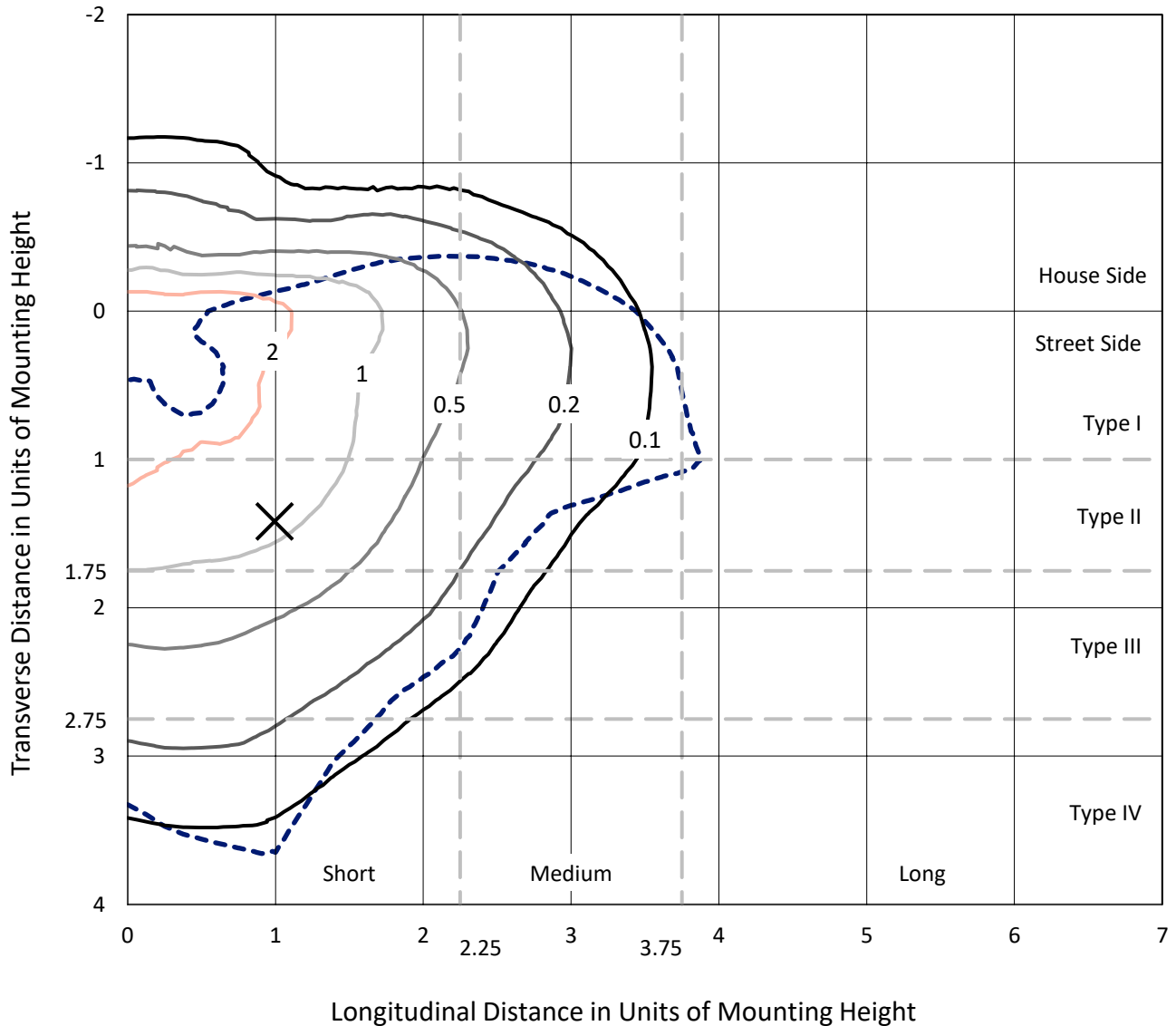
Lumens per Lamp: N/A  
Luminaire Lumens: 2757.7 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

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

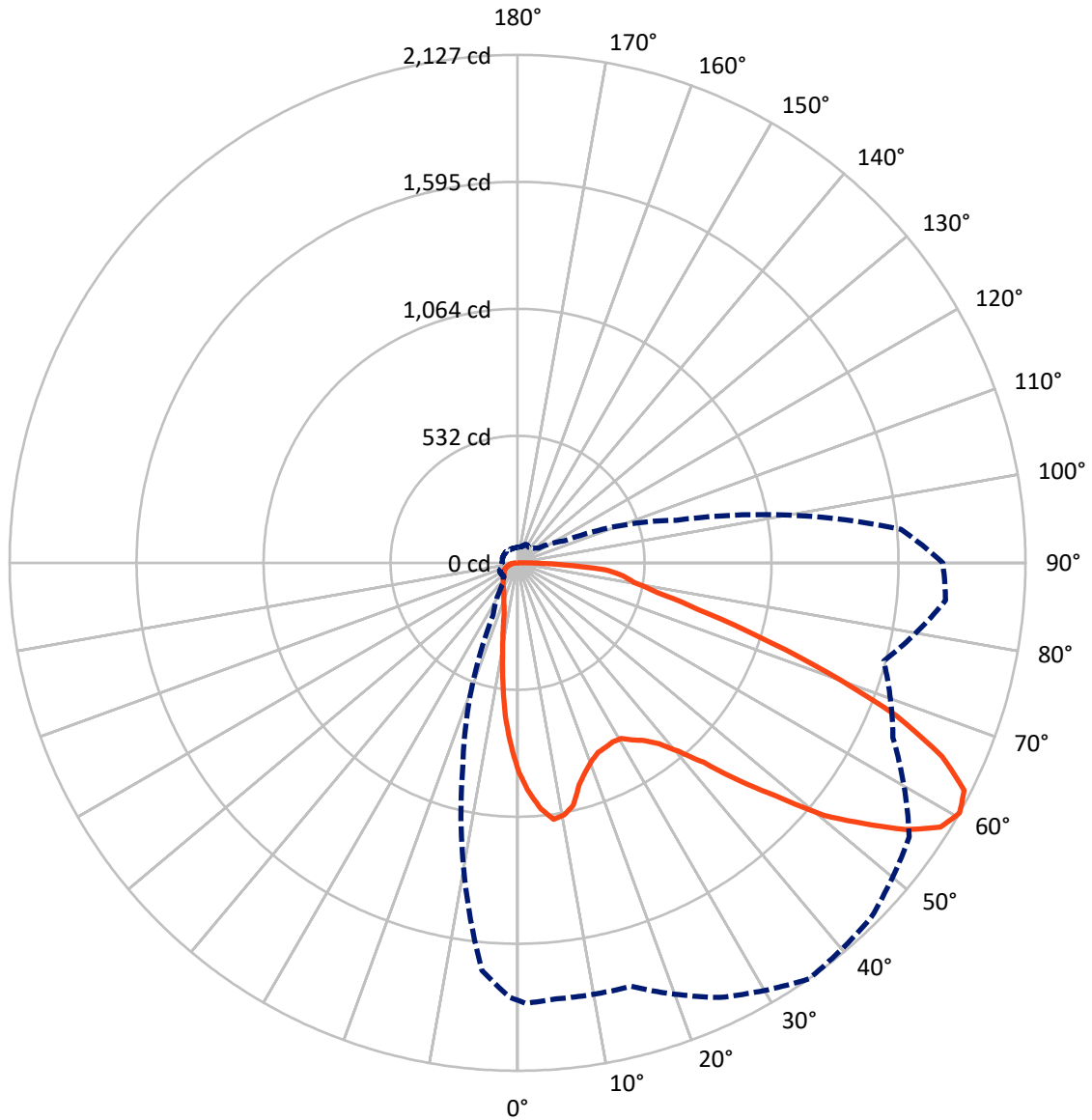
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	524.8	0.0	524.8
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	2232.8	0.0	2232.8
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	2757.7	0.0	2757.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.4	2.5
10°-20°	144.5	5.2
20°-30°	211.4	7.7
30°-40°	297.8	10.8
40°-50°	409.3	14.8
50°-60°	557.8	20.2
60°-70°	610.5	22.1
70°-80°	352.5	12.8
80°-90°	105.5	3.8
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°	2757.7	100.0
0°-180°	2757.7	100.0

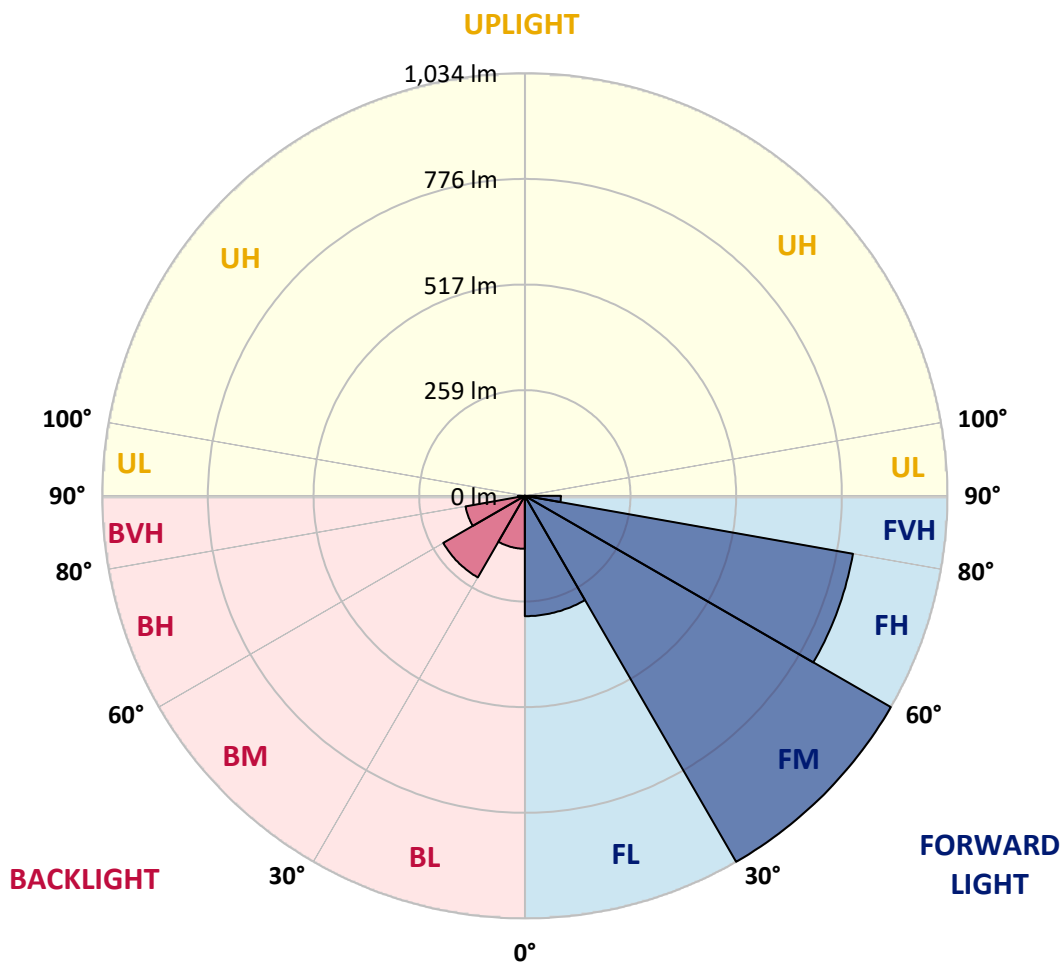


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.6	10.7			
FM	(30°-60°)	1034.4	37.5			
FH	(60°-80°)	815.5	29.6			G1/1800
FVH	(80°-90°)	88.3	3.2			G1/100
BL	(0°-30°)	129.7	4.7	B1/500		
BM	(30°-60°)	230.5	8.4	B1/1000		
BH	(60°-80°)	147.4	5.3	B1/500		G1/500
BVH	(80°-90°)	17.2	0.6			G1/100
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°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	943.2	939.5	943.2	956.6	960.3	966.4	966.4	957.9	941.9	934.6	922.4
5°	964.0	957.9	988.4	1016.6	1038.6	1036.1	1015.3	998.2	966.4	918.7	873.4
7.5°	922.4	928.5	950.5	1023.9	1075.3	1085.1	1052.0	1017.8	949.3	883.2	822.1
10°	844.1	852.6	900.4	976.2	1056.9	1072.8	1052.0	1010.5	928.5	846.5	775.6
12.5°	806.2	825.7	853.9	945.6	1003.1	1041.0	1031.2	1004.3	912.6	815.9	747.4
15°	806.2	811.1	852.6	929.7	962.7	964.0	967.6	972.5	917.5	829.4	737.7
17.5°	831.8	845.3	880.8	928.5	934.6	919.9	919.9	940.7	927.3	867.3	773.1
20°	894.2	889.3	935.8	955.4	922.4	885.7	882.0	917.5	938.3	907.7	838.0
22.5°	956.6	978.6	1016.6	972.5	911.4	862.4	857.5	901.6	971.3	977.4	912.6
25°	1050.8	1072.8	1092.4	1038.6	910.1	856.3	860.0	894.2	1011.7	1076.5	1037.4
27.5°	1152.4	1165.8	1193.9	1110.8	939.5	849.0	852.6	904.0	1049.6	1141.3	1135.2
30°	1209.9	1224.5	1218.4	1124.2	959.1	853.9	844.1	917.5	1028.8	1141.3	1198.8
32.5°	1266.1	1257.6	1253.9	1146.2	983.5	884.5	860.0	945.6	1041.0	1159.7	1280.8
35°	1334.6	1322.4	1312.6	1189.1	1023.9	913.8	902.8	982.3	1067.9	1197.6	1346.9
37.5°	1410.5	1410.5	1362.8	1220.9	1071.6	961.5	949.3	1034.9	1110.8	1220.9	1437.4
40°	1499.8	1503.4	1419.0	1263.7	1125.4	1037.4	1033.7	1103.4	1152.4	1255.1	1524.2
42.5°	1565.8	1568.3	1468.0	1279.6	1187.8	1142.6	1158.5	1213.5	1200.1	1285.7	1530.4
45°	1611.1	1598.9	1502.2	1324.8	1256.3	1300.4	1305.3	1321.2	1262.5	1304.0	1554.8
47.5°	1633.1	1630.7	1516.9	1377.4	1400.7	1460.6	1488.8	1466.7	1319.9	1284.5	1554.8
50°	1655.1	1634.3	1530.4	1449.6	1541.4	1662.5	1656.4	1616.0	1399.5	1308.9	1531.6
52.5°	1669.8	1651.5	1557.3	1514.5	1675.9	1812.9	1837.4	1762.8	1492.4	1354.2	1542.6
55°	1722.4	1707.7	1638.0	1602.5	1831.3	1972.0	1975.6	1871.7	1590.3	1428.8	1614.8
57.5°	1786.0	1794.6	1749.3	1727.3	1950.0	2088.2	2074.7	1952.4	1673.5	1519.3	1698.0
60°	1831.3	1844.7	1833.7	1836.2	2008.7	2127.3	2096.7	2002.6	1734.7	1587.9	1799.5
62.5°	1806.8	1833.7	1879.0	1869.2	2011.1	2099.2	2056.4	1936.5	1742.0	1677.2	1876.6
65°	1739.5	1742.0	1830.1	1883.9	1901.0	1953.6	1897.4	1798.3	1666.1	1732.2	1865.5
67.5°	1567.1	1586.6	1666.1	1771.3	1699.2	1711.4	1706.5	1563.4	1551.2	1694.3	1781.1
70°	1383.6	1397.0	1483.9	1607.4	1434.9	1377.4	1388.5	1282.0	1332.2	1576.8	1611.1
72.5°	1143.8	1152.4	1251.4	1360.3	1151.1	1048.4	1074.1	987.2	1058.2	1379.9	1359.1
75°	863.7	879.6	956.6	1085.1	847.8	781.7	807.4	771.9	838.0	1136.5	1054.5
77.5°	614.1	601.9	697.3	849.0	637.3	598.2	600.6	606.8	677.7	957.9	757.2
80°	418.4	422.0	507.7	622.7	500.3	494.2	488.1	537.0	568.8	758.5	550.5
82.5°	248.3	248.3	342.5	442.8	395.1	445.3	417.1	461.2	445.3	557.8	360.9
85°	116.2	116.2	176.2	319.3	305.8	367.0	311.9	348.6	329.1	389.0	162.7
87.5°	19.6	17.1	35.5	156.6	126.0	143.1	56.3	185.9	206.7	271.6	40.4
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°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	908.9	900.4	883.2	861.2	842.9	819.6	812.3	796.4	774.4	771.9	762.1
5°	856.3	827.0	790.3	745.0	714.4	682.6	655.7	639.8	621.4	619.0	614.1
7.5°	798.8	762.1	701.0	647.1	594.5	544.4	519.9	489.3	468.5	452.6	445.3
10°	745.0	710.7	634.9	561.5	515.0	482.0	452.6	420.8	395.1	375.6	368.2
12.5°	709.5	669.1	587.2	517.5	483.2	445.3	412.3	378.0	345.0	319.3	305.8
15°	693.6	655.7	572.5	495.4	445.3	392.7	354.8	320.5	280.1	261.8	255.7
17.5°	731.5	675.3	567.6	469.8	398.8	338.9	292.4	255.7	226.3	208.0	200.6
20°	780.5	710.7	576.2	439.2	354.8	287.5	236.1	197.0	177.4	163.9	162.7
22.5°	842.9	763.3	589.6	417.1	305.8	231.2	184.7	161.5	148.0	146.8	144.4
25°	954.2	858.8	611.7	387.8	266.7	190.8	157.8	144.4	138.2	134.6	137.0
27.5°	1049.6	921.2	627.6	369.4	250.8	179.8	152.9	138.2	132.1	130.9	132.1
30°	1105.9	978.6	622.7	335.2	219.0	171.3	162.7	157.8	145.6	135.8	135.8
32.5°	1157.2	1015.3	621.4	304.6	187.2	143.1	135.8	132.1	139.5	144.4	140.7
35°	1228.2	1072.8	617.8	287.5	173.7	132.1	119.9	110.1	105.2	102.8	106.4
37.5°	1304.0	1112.0	608.0	285.0	166.4	126.0	116.2	106.4	101.5	99.1	97.9
40°	1387.2	1153.6	597.0	272.8	162.7	122.3	112.5	104.0	97.9	94.2	93.0
42.5°	1441.1	1186.6	586.0	266.7	155.4	119.9	108.9	101.5	95.4	90.5	90.5
45°	1471.6	1225.8	575.0	260.6	146.8	121.1	108.9	99.1	91.7	89.3	86.9
47.5°	1485.1	1255.1	571.3	250.8	139.5	116.2	106.4	96.6	89.3	84.4	83.2
50°	1520.6	1317.5	584.7	243.4	130.9	111.3	112.5	95.4	88.1	82.0	80.7
52.5°	1541.4	1367.7	614.1	232.4	124.8	105.2	110.1	93.0	84.4	78.3	78.3
55°	1617.2	1450.8	645.9	223.9	117.4	96.6	101.5	88.1	78.3	74.6	74.6
57.5°	1713.9	1538.9	672.8	220.2	112.5	90.5	90.5	85.6	74.6	69.7	68.5
60°	1781.1	1611.1	688.7	217.7	107.7	84.4	80.7	85.6	71.0	66.1	64.8
62.5°	1788.5	1569.5	672.8	216.5	106.4	78.3	73.4	82.0	67.3	62.4	59.9
65°	1742.0	1485.1	628.8	211.6	105.2	72.2	68.5	71.0	62.4	58.7	56.3
67.5°	1649.0	1348.1	565.2	209.2	104.0	67.3	62.4	61.2	57.5	53.8	51.4
70°	1432.5	1169.5	490.5	198.2	101.5	63.6	56.3	55.0	51.4	48.9	47.7
72.5°	1202.5	956.6	404.9	183.5	96.6	57.5	51.4	48.9	47.7	44.0	42.8
75°	921.2	736.4	324.2	162.7	84.4	51.4	45.3	42.8	41.6	39.1	37.9
77.5°	647.1	548.0	239.8	132.1	71.0	46.5	40.4	37.9	36.7	33.0	33.0
80°	439.2	384.1	162.7	91.7	55.0	37.9	35.5	33.0	30.6	28.1	28.1
82.5°	272.8	269.1	117.4	59.9	40.4	30.6	28.1	28.1	24.5	22.0	22.0
85°	124.8	165.1	82.0	41.6	30.6	23.2	23.2	22.0	19.6	15.9	15.9
87.5°	39.1	55.0	42.8	18.3	17.1	13.5	13.5	12.2	12.2	9.8	9.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	771.9	770.7	770.7	765.8	778.0	778.0	785.4	779.2	782.9	784.1	793.9
5°	612.9	622.7	630.0	644.7	653.2	656.9	656.9	666.7	663.0	670.4	685.1
7.5°	449.0	461.2	483.2	501.6	516.2	521.1	519.9	522.4	526.0	517.5	519.9
10°	363.3	354.8	362.1	379.2	392.7	408.6	396.4	395.1	398.8	395.1	402.5
12.5°	303.4	293.6	287.5	287.5	297.3	304.6	300.9	307.1	320.5	324.2	332.7
15°	245.9	237.3	232.4	226.3	236.1	238.5	242.2	250.8	260.6	265.5	275.2
17.5°	197.0	197.0	197.0	192.1	195.7	199.4	200.6	211.6	212.9	217.7	221.4
20°	161.5	165.1	171.3	173.7	177.4	177.4	174.9	181.0	176.2	179.8	182.3
22.5°	145.6	150.5	152.9	154.1	159.0	160.3	154.1	155.4	156.6	152.9	154.1
25°	137.0	139.5	137.0	138.2	139.5	137.0	138.2	140.7	139.5	141.9	140.7
27.5°	133.3	130.9	129.7	128.4	128.4	126.0	127.2	127.2	129.7	130.9	130.9
30°	133.3	129.7	124.8	121.1	121.1	117.4	119.9	122.3	123.6	126.0	126.0
32.5°	137.0	129.7	121.1	117.4	113.8	111.3	113.8	117.4	122.3	123.6	124.8
35°	108.9	112.5	111.3	106.4	105.2	105.2	104.0	104.0	100.3	100.3	99.1
37.5°	97.9	96.6	99.1	100.3	101.5	97.9	97.9	93.0	91.7	93.0	93.0
40°	91.7	91.7	91.7	95.4	96.6	94.2	90.5	88.1	88.1	88.1	89.3
42.5°	89.3	86.9	85.6	88.1	91.7	89.3	85.6	84.4	84.4	85.6	85.6
45°	85.6	84.4	83.2	82.0	86.9	83.2	82.0	80.7	80.7	80.7	82.0
47.5°	82.0	80.7	78.3	78.3	79.5	78.3	77.1	77.1	77.1	79.5	79.5
50°	79.5	78.3	75.8	75.8	75.8	75.8	74.6	74.6	74.6	75.8	77.1
52.5°	75.8	74.6	73.4	72.2	72.2	72.2	72.2	72.2	72.2	73.4	74.6
55°	72.2	71.0	69.7	69.7	71.0	71.0	69.7	71.0	69.7	71.0	72.2
57.5°	68.5	67.3	66.1	67.3	68.5	67.3	67.3	67.3	67.3	67.3	68.5
60°	63.6	63.6	63.6	63.6	66.1	66.1	66.1	66.1	63.6	64.8	66.1
62.5°	61.2	59.9	59.9	61.2	62.4	62.4	63.6	62.4	61.2	62.4	62.4
65°	56.3	56.3	56.3	57.5	57.5	58.7	58.7	58.7	57.5	58.7	58.7
67.5°	52.6	52.6	52.6	52.6	55.0	55.0	55.0	55.0	53.8	53.8	55.0
70°	46.5	47.7	46.5	48.9	51.4	50.2	51.4	51.4	50.2	48.9	51.4
72.5°	42.8	42.8	42.8	42.8	46.5	46.5	46.5	47.7	46.5	45.3	46.5
75°	37.9	37.9	37.9	39.1	41.6	41.6	41.6	41.6	41.6	40.4	40.4
77.5°	33.0	34.3	33.0	34.3	36.7	35.5	36.7	37.9	36.7	35.5	35.5
80°	28.1	28.1	28.1	29.4	30.6	30.6	30.6	31.8	30.6	29.4	29.4
82.5°	22.0	22.0	23.2	23.2	24.5	24.5	24.5	25.7	24.5	23.2	23.2
85°	17.1	17.1	17.1	18.3	18.3	19.6	19.6	20.8	20.8	19.6	19.6
87.5°	11.0	9.8	11.0	11.0	12.2	12.2	11.0	9.8	11.0	9.8	8.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8	880.8
2.5°	803.7	825.7	841.6	852.6	868.5	899.1	911.4	933.4	939.5	943.2
5°	691.2	714.4	748.7	773.1	801.3	858.8	902.8	935.8	950.5	964.0
7.5°	541.9	572.5	608.0	639.8	686.3	757.2	814.7	883.2	908.9	922.4
10°	423.3	451.4	490.5	529.7	594.5	654.5	736.4	798.8	834.3	844.1
12.5°	357.2	390.2	436.7	484.4	524.8	593.3	676.5	767.0	800.0	806.2
15°	303.4	348.6	396.4	445.3	491.8	551.7	641.0	751.1	800.0	806.2
17.5°	250.8	291.1	347.4	400.0	453.8	535.8	647.1	764.6	813.5	831.8
20°	199.4	238.5	282.6	348.6	422.0	508.9	660.6	809.8	874.7	894.2
22.5°	165.1	182.3	225.1	288.7	375.6	490.5	674.0	880.8	949.3	956.6
25°	144.4	156.6	183.5	243.4	338.9	478.3	705.8	962.7	1050.8	1050.8
27.5°	134.6	139.5	157.8	211.6	313.2	467.3	737.7	1053.3	1135.2	1152.4
30°	132.1	144.4	154.1	188.4	285.0	436.7	767.0	1124.2	1208.6	1209.9
32.5°	129.7	127.2	134.6	163.9	250.8	404.9	791.5	1196.4	1262.5	1266.1
35°	101.5	106.4	118.7	144.4	225.1	381.7	803.7	1235.5	1331.0	1334.6
37.5°	95.4	101.5	111.3	133.3	208.0	362.1	807.4	1311.4	1403.1	1410.5
40°	93.0	97.9	105.2	123.6	194.5	337.6	814.7	1389.7	1509.6	1499.8
42.5°	88.1	94.2	101.5	118.7	183.5	319.3	815.9	1432.5	1565.8	1565.8
45°	86.9	90.5	99.1	118.7	171.3	303.4	796.4	1475.3	1630.7	1611.1
47.5°	82.0	89.3	96.6	115.0	156.6	287.5	773.1	1497.3	1639.2	1633.1
50°	80.7	88.1	100.3	108.9	148.0	280.1	768.2	1552.4	1656.4	1655.1
52.5°	78.3	85.6	104.0	104.0	137.0	270.4	791.5	1576.8	1660.0	1669.8
55°	74.6	85.6	96.6	95.4	127.2	258.1	817.2	1640.5	1724.9	1722.4
57.5°	72.2	83.2	91.7	86.9	116.2	249.6	855.1	1701.6	1803.2	1786.0
60°	68.5	83.2	82.0	80.7	107.7	242.2	886.9	1713.9	1820.3	1831.3
62.5°	66.1	86.9	72.2	74.6	100.3	238.5	873.4	1622.1	1797.0	1806.8
65°	63.6	74.6	66.1	68.5	97.9	231.2	820.8	1512.0	1696.7	1739.5
67.5°	58.7	61.2	61.2	63.6	95.4	214.1	713.2	1313.8	1543.8	1567.1
70°	53.8	55.0	55.0	58.7	93.0	194.5	588.4	1136.5	1339.5	1383.6
72.5°	48.9	48.9	48.9	53.8	85.6	178.6	484.4	873.4	1113.2	1143.8
75°	42.8	42.8	42.8	47.7	77.1	162.7	381.7	649.6	819.6	863.7
77.5°	37.9	37.9	36.7	42.8	67.3	132.1	275.2	458.7	577.4	614.1
80°	31.8	30.6	30.6	34.3	52.6	95.4	177.4	324.2	402.5	418.4
82.5°	25.7	24.5	23.2	25.7	37.9	59.9	110.1	226.3	258.1	248.3
85°	24.5	25.7	20.8	19.6	26.9	39.1	69.7	139.5	116.2	116.2
87.5°	9.8	8.6	8.6	7.3	13.5	14.7	30.6	25.7	19.6	19.6
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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