

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: P676326

Luminaire Tested: **CCW-SA-2C-830-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676326  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-830-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T2 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

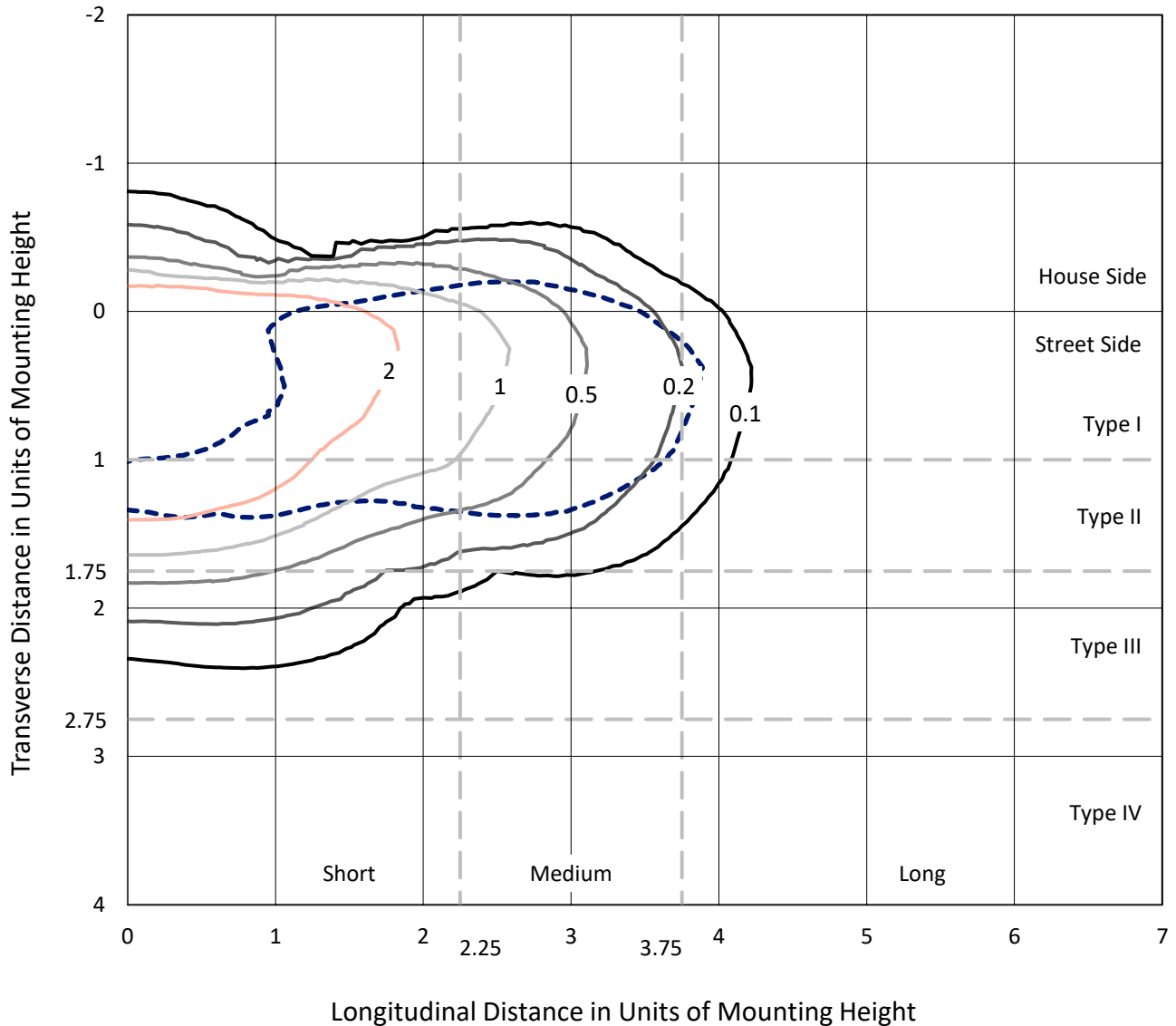
Lumens per Lamp: N/A  
Luminaire Lumens: 5546.6 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1  
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

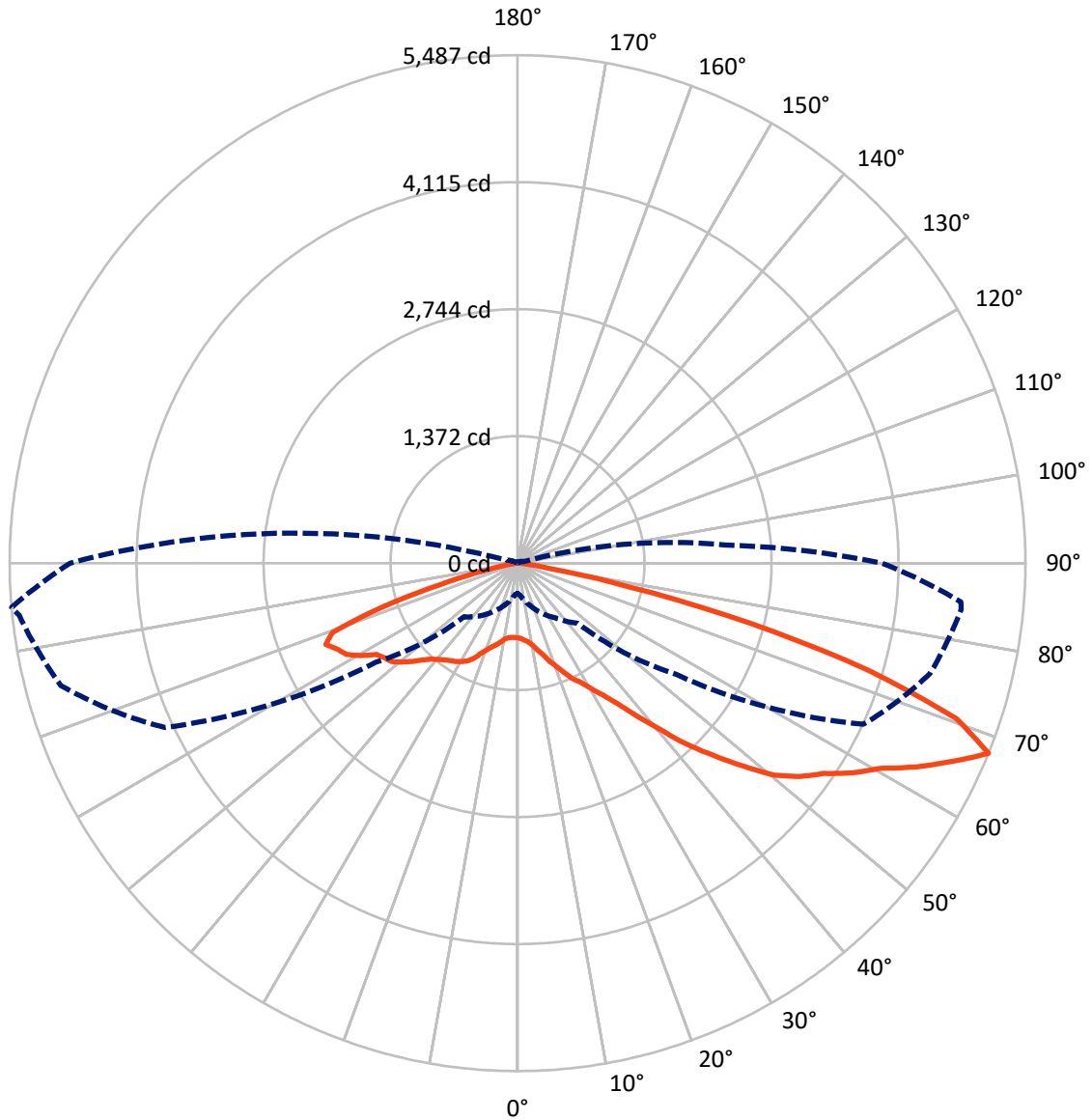
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	788.0	0.0	788.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	4758.6	0.0	4758.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	5546.6	0.0	5546.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.5	1.3
10°-20°	197.8	3.6
20°-30°	328.4	5.9
30°-40°	565.1	10.2
40°-50°	1015.4	18.3
50°-60°	1445.6	26.1
60°-70°	1317.9	23.8
70°-80°	561.2	10.1
80°-90°	41.8	0.8
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°	5546.6	100.0
0°-180°	5546.6	100.0



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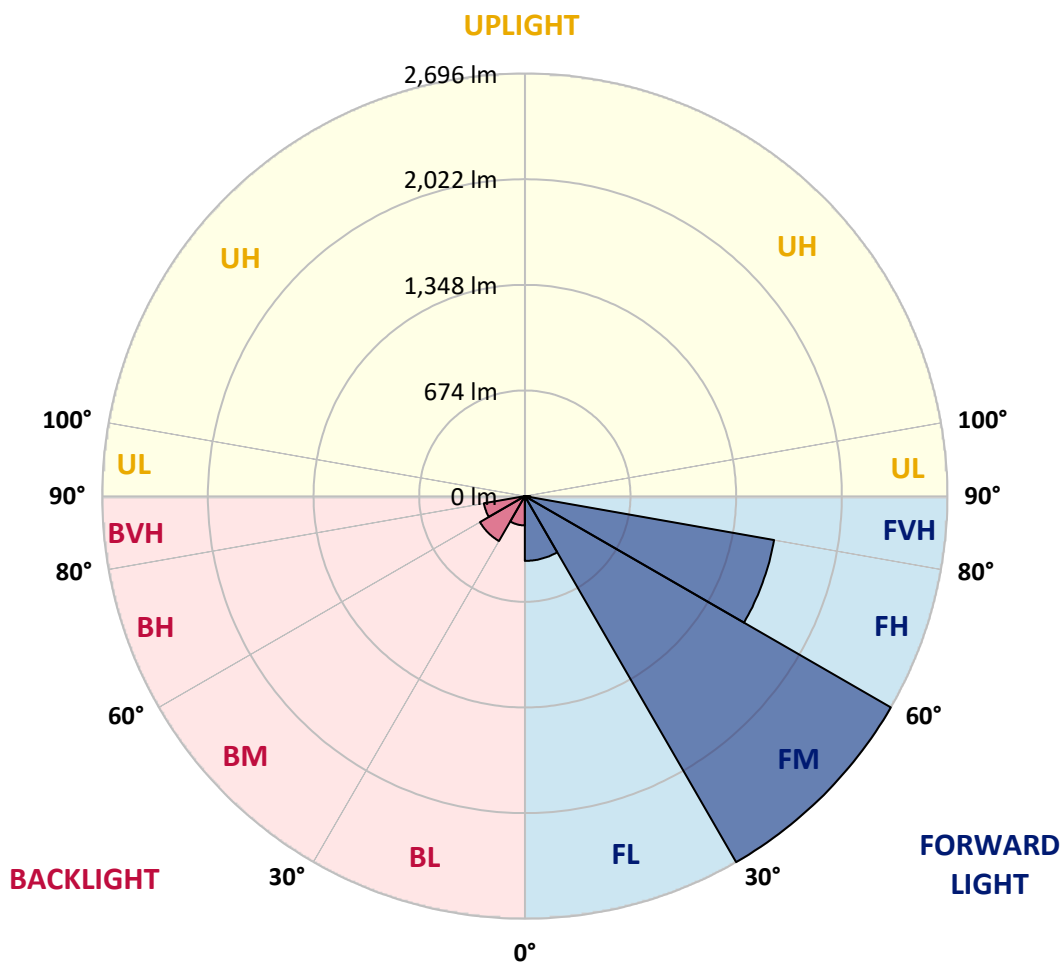
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.2	7.4			
FM (30°-60°)	2695.7	48.6			
FH (60°-80°)	1614.3	29.1			G1/1800
FVH (80°-90°)	35.5	0.6			G1/100
BL (0°-30°)	186.5	3.4	B1/500		
BM (30°-60°)	330.4	6.0	B1/1000		
BH (60°-80°)	264.8	4.8	B1/500		G1/500
BVH (80°-90°)	6.3	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	835.6	843.6	843.6	840.9	833.0	827.7	825.1	819.8	814.5	814.5	817.1
5°	843.6	835.6	846.2	833.0	833.0	833.0	843.6	838.3	835.6	822.4	822.4
7.5°	843.6	835.6	835.6	843.6	835.6	840.9	854.2	848.9	859.4	835.6	840.9
10°	819.8	817.1	822.4	833.0	835.6	846.2	859.4	885.9	888.5	872.7	870.0
12.5°	772.2	769.5	788.0	793.3	825.1	851.5	891.2	912.3	936.1	928.2	912.3
15°	737.8	743.1	756.3	777.5	806.6	854.2	899.1	946.7	989.0	978.5	973.2
17.5°	751.0	748.4	751.0	764.2	801.3	848.9	925.6	981.1	1041.9	1041.9	1047.2
20°	790.7	798.6	796.0	788.0	806.6	846.2	925.6	1023.4	1123.9	1116.0	1116.0
22.5°	859.4	862.1	846.2	840.9	838.3	862.1	941.4	1076.3	1192.7	1208.5	1203.2
25°	930.9	933.5	928.2	912.3	891.2	896.5	970.5	1118.6	1287.9	1314.3	1309.0
27.5°	1049.9	1047.2	1034.0	1015.5	983.7	959.9	1015.5	1150.3	1361.9	1406.9	1393.6
30°	1168.9	1160.9	1142.4	1118.6	1089.5	1044.6	1071.0	1211.2	1454.5	1496.8	1467.7
32.5°	1314.3	1298.4	1303.7	1266.7	1205.9	1134.5	1129.2	1266.7	1528.5	1589.3	1565.5
35°	1499.4	1480.9	1454.5	1420.1	1361.9	1266.7	1237.6	1356.6	1652.8	1697.7	1697.7
37.5°	1742.7	1761.2	1729.5	1586.7	1523.2	1433.3	1372.5	1449.2	1761.2	1869.6	1843.2
40°	1991.3	2007.1	1949.0	1843.2	1705.7	1594.6	1557.6	1599.9	1925.2	2054.7	2004.5
42.5°	2192.3	2213.4	2192.3	2054.7	1946.3	1803.5	1737.4	1777.1	2136.7	2292.7	2226.6
45°	2403.8	2425.0	2401.2	2311.3	2205.5	2123.5	1956.9	2007.1	2358.9	2591.6	2517.5
47.5°	2562.5	2588.9	2546.6	2528.1	2443.5	2430.3	2147.3	2202.8	2591.6	2893.0	2800.5
50°	2599.5	2628.6	2665.6	2686.8	2657.7	2689.4	2403.8	2451.4	2834.9	3170.7	3080.8
52.5°	2512.2	2541.3	2623.3	2721.2	2856.0	2951.2	2663.0	2702.6	3088.7	3400.8	3353.2
55°	2255.7	2282.2	2448.8	2581.0	2903.6	3059.6	2911.6	3078.2	3271.2	3641.4	3525.1
57.5°	1824.7	1856.4	2075.9	2279.5	2745.0	2998.8	3059.6	3390.2	3572.7	3818.6	3683.7
60°	1295.8	1314.3	1504.7	1864.3	2306.0	2694.7	3030.6	3622.9	3810.7	4056.6	3985.2
62.5°	745.7	761.6	959.9	1298.4	1740.1	2250.4	2901.0	3842.4	4067.2	4318.4	4278.7
65°	494.5	499.8	634.7	819.8	1131.8	1658.1	2573.1	4038.1	4321.1	4527.3	4482.4
67.5°	325.3	354.4	460.1	587.1	724.6	917.6	2097.1	4120.1	4611.9	4818.2	4807.6
70°	232.7	243.3	330.6	452.2	544.8	515.7	1227.0	3540.9	4598.7	4897.5	4810.3
72.5°	137.5	148.1	219.5	338.5	428.4	327.9	573.8	2504.3	3810.7	3908.5	3884.7
75°	100.5	100.5	134.9	243.3	312.0	235.4	269.7	1584.0	2530.7	2747.6	2745.0
77.5°	71.4	74.0	92.6	145.4	240.6	171.9	148.1	880.6	1383.1	1512.6	1441.2
80°	42.3	45.0	63.5	87.3	174.5	124.3	97.8	402.0	531.5	536.8	510.4
82.5°	31.7	31.7	42.3	60.8	121.6	84.6	60.8	153.4	171.9	156.0	132.2
85°	18.5	15.9	31.7	45.0	71.4	47.6	42.3	71.4	79.3	58.2	52.9
87.5°	5.3	5.3	13.2	15.9	31.7	26.4	18.5	26.4	37.0	21.2	15.9
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°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	811.8	803.9	790.7	785.4	766.9	759.0	753.7	740.4	743.1	735.2	735.2
5°	803.9	803.9	777.5	748.4	719.3	700.8	679.6	653.2	653.2	642.6	645.2
7.5°	833.0	811.8	777.5	724.6	677.0	634.7	616.2	589.7	573.8	565.9	565.9
10°	851.5	830.4	772.2	708.7	647.9	595.0	555.3	518.3	497.2	497.2	494.5
12.5°	901.8	870.0	793.3	706.1	616.2	536.8	476.0	433.7	404.6	383.4	388.7
15°	944.1	909.7	803.9	684.9	560.6	449.6	375.5	296.2	256.5	235.4	227.4
17.5°	1010.2	946.7	827.7	647.9	476.0	351.7	243.3	177.2	161.3	158.7	158.7
20°	1065.7	991.7	830.4	576.5	391.4	224.8	156.0	145.4	137.5	134.9	132.2
22.5°	1142.4	1049.9	819.8	494.5	280.3	150.7	132.2	121.6	116.4	108.4	108.4
25°	1221.7	1126.5	798.6	417.8	171.9	129.6	116.4	105.8	95.2	89.9	92.6
27.5°	1306.4	1184.7	737.8	325.3	132.2	113.7	95.2	87.3	82.0	79.3	79.3
30°	1375.1	1221.7	647.9	216.8	119.0	100.5	84.6	76.7	71.4	68.8	68.8
32.5°	1425.4	1253.5	547.4	145.4	108.4	89.9	76.7	68.8	63.5	60.8	60.8
35°	1510.0	1277.3	454.8	124.3	97.8	79.3	66.1	60.8	55.5	55.5	55.5
37.5°	1639.6	1309.0	362.3	113.7	89.9	71.4	63.5	55.5	52.9	50.2	50.2
40°	1753.3	1348.7	259.2	103.1	82.0	66.1	55.5	50.2	47.6	45.0	45.0
42.5°	1917.2	1393.6	169.2	92.6	74.0	60.8	50.2	45.0	42.3	39.7	39.7
45°	2126.1	1467.7	132.2	82.0	66.1	55.5	47.6	42.3	37.0	37.0	34.4
47.5°	2348.3	1557.6	119.0	76.7	60.8	50.2	42.3	37.0	34.4	31.7	31.7
50°	2554.5	1644.9	111.1	71.4	55.5	47.6	39.7	34.4	29.1	26.4	26.4
52.5°	2739.7	1726.8	105.8	66.1	52.9	42.3	34.4	29.1	26.4	23.8	23.8
55°	2837.5	1763.9	103.1	63.5	47.6	39.7	31.7	26.4	23.8	21.2	21.2
57.5°	2990.9	1811.5	100.5	60.8	45.0	34.4	29.1	23.8	21.2	18.5	18.5
60°	3239.5	1967.5	97.8	58.2	42.3	34.4	26.4	21.2	15.9	13.2	13.2
62.5°	3445.7	2097.1	87.3	50.2	37.0	29.1	21.2	15.9	10.6	7.9	7.9
65°	3681.1	2157.9	76.7	45.0	31.7	23.8	15.9	10.6	7.9	2.6	2.6
67.5°	3937.6	2250.4	63.5	39.7	29.1	18.5	13.2	7.9	2.6	0.0	0.0
70°	3802.7	2134.1	52.9	34.4	26.4	15.9	10.6	5.3	0.0	0.0	0.0
72.5°	2980.3	1528.5	42.3	31.7	23.8	15.9	10.6	2.6	0.0	0.0	0.0
75°	1991.3	864.7	37.0	26.4	18.5	13.2	7.9	2.6	0.0	0.0	0.0
77.5°	1081.6	388.7	31.7	23.8	15.9	10.6	7.9	2.6	0.0	0.0	0.0
80°	351.7	153.4	26.4	21.2	15.9	10.6	7.9	2.6	0.0	0.0	0.0
82.5°	95.2	47.6	26.4	21.2	15.9	10.6	7.9	2.6	0.0	0.0	0.0
85°	39.7	31.7	26.4	21.2	15.9	10.6	7.9	2.6	0.0	0.0	0.0
87.5°	15.9	10.6	10.6	13.2	10.6	7.9	5.3	2.6	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°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	737.8	743.1	745.7	745.7	759.0	772.2	788.0	801.3	801.3	809.2	817.1
5°	647.9	653.2	661.1	684.9	711.4	740.4	769.5	790.7	819.8	833.0	840.9
7.5°	573.8	579.1	600.3	624.1	661.1	711.4	761.6	809.2	838.3	851.5	862.1
10°	497.2	505.1	528.9	571.2	618.8	679.6	737.8	819.8	867.4	893.8	904.4
12.5°	386.1	407.2	439.0	483.9	544.8	637.3	745.7	830.4	912.3	944.1	965.2
15°	243.3	261.8	312.0	383.4	465.4	573.8	724.6	846.2	959.9	991.7	1026.1
17.5°	156.0	158.7	174.5	251.2	357.0	494.5	692.8	870.0	1012.8	1057.8	1110.7
20°	132.2	137.5	140.2	150.7	238.0	407.2	626.7	899.1	1076.3	1137.1	1187.4
22.5°	111.1	113.7	119.0	126.9	142.8	296.2	536.8	899.1	1131.8	1221.7	1279.9
25°	89.9	95.2	100.5	108.4	124.3	185.1	444.3	883.3	1197.9	1309.0	1383.1
27.5°	79.3	79.3	84.6	92.6	105.8	129.6	351.7	835.6	1248.2	1361.9	1459.7
30°	68.8	71.4	74.0	82.0	95.2	113.7	243.3	759.0	1301.1	1465.0	1576.1
32.5°	60.8	60.8	66.1	71.4	84.6	103.1	156.0	642.6	1369.8	1544.4	1700.4
35°	55.5	55.5	58.2	63.5	76.7	92.6	121.6	544.8	1451.8	1695.1	1867.0
37.5°	50.2	50.2	52.9	58.2	68.8	82.0	111.1	468.1	1536.4	1845.8	2097.1
40°	45.0	45.0	47.6	52.9	60.8	74.0	100.5	378.2	1642.2	2068.0	2348.3
42.5°	39.7	39.7	42.3	47.6	55.5	66.1	87.3	283.0	1782.4	2308.6	2673.6
45°	34.4	34.4	37.0	42.3	47.6	60.8	79.3	216.8	1935.7	2575.7	2959.2
47.5°	29.1	31.7	34.4	39.7	45.0	55.5	71.4	190.4	2086.5	2858.7	3276.5
50°	26.4	26.4	29.1	34.4	42.3	50.2	66.1	187.8	2239.9	3075.5	3601.8
52.5°	23.8	23.8	26.4	31.7	39.7	47.6	63.5	193.0	2366.8	3276.5	3829.2
55°	21.2	21.2	23.8	26.4	34.4	45.0	58.2	198.3	2456.7	3480.1	4011.6
57.5°	18.5	18.5	21.2	26.4	31.7	39.7	52.9	203.6	2602.2	3681.1	4276.1
60°	13.2	13.2	18.5	23.8	29.1	34.4	50.2	208.9	2834.9	3958.8	4500.9
62.5°	7.9	7.9	10.6	18.5	23.8	31.7	45.0	198.3	3051.7	4315.8	4844.7
65°	2.6	5.3	7.9	10.6	18.5	26.4	37.0	179.8	3234.2	4672.8	5162.0
67.5°	0.0	0.0	2.6	7.9	15.9	21.2	31.7	132.2	3263.3	4834.1	5487.3
70°	0.0	0.0	2.6	7.9	13.2	21.2	29.1	74.0	2779.3	4318.4	5029.8
72.5°	0.0	0.0	0.0	5.3	13.2	18.5	26.4	55.5	2049.5	3255.3	3974.6
75°	0.0	0.0	0.0	2.6	10.6	15.9	23.8	42.3	1245.5	2171.1	2594.2
77.5°	0.0	0.0	0.0	2.6	7.9	15.9	23.8	37.0	439.0	1034.0	1219.1
80°	0.0	0.0	0.0	5.3	10.6	15.9	21.2	31.7	105.8	259.2	349.1
82.5°	0.0	0.0	0.0	2.6	7.9	13.2	18.5	26.4	42.3	76.7	121.6
85°	0.0	0.0	0.0	2.6	5.3	13.2	18.5	23.8	29.1	37.0	52.9
87.5°	0.0	0.0	0.0	0.0	2.6	5.3	7.9	10.6	10.6	10.6	18.5
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):**

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6	806.6
2.5°	814.5	825.1	830.4	840.9	846.2	843.6	840.9	848.9	843.6	835.6
5°	843.6	843.6	851.5	854.2	854.2	846.2	851.5	848.9	843.6	843.6
7.5°	875.3	888.5	888.5	872.7	870.0	864.7	864.7	843.6	835.6	843.6
10°	907.1	917.6	920.3	901.8	878.0	867.4	854.2	827.7	814.5	819.8
12.5°	973.2	973.2	944.1	922.9	891.2	854.2	822.4	785.4	766.9	772.2
15°	1020.8	1031.3	991.7	944.1	888.5	819.8	785.4	756.3	745.7	737.8
17.5°	1113.3	1092.2	1028.7	959.9	880.6	809.2	785.4	759.0	751.0	751.0
20°	1192.7	1182.1	1086.9	962.6	878.0	830.4	814.5	801.3	798.6	790.7
22.5°	1301.1	1253.5	1131.8	991.7	907.1	864.7	859.4	872.7	864.7	859.4
25°	1383.1	1343.4	1166.2	1034.0	952.0	938.8	946.7	959.9	938.8	930.9
27.5°	1494.1	1420.1	1232.3	1089.5	1012.8	1026.1	1052.5	1055.1	1041.9	1049.9
30°	1597.3	1517.9	1282.6	1153.0	1116.0	1129.2	1168.9	1197.9	1179.4	1168.9
32.5°	1745.3	1623.7	1383.1	1258.8	1245.5	1279.9	1324.9	1343.4	1319.6	1314.3
35°	1901.4	1745.3	1486.2	1377.8	1401.6	1449.2	1488.8	1520.6	1483.5	1499.4
37.5°	2144.7	1941.0	1660.7	1565.5	1576.1	1594.6	1668.7	1755.9	1774.4	1742.7
40°	2398.5	2152.6	1822.0	1748.0	1771.8	1822.0	1909.3	1991.3	2033.6	1991.3
42.5°	2692.1	2356.2	2070.6	1983.3	2007.1	2078.5	2194.9	2261.0	2255.7	2192.3
45°	3054.4	2639.2	2303.3	2194.9	2282.2	2345.6	2462.0	2469.9	2419.7	2403.8
47.5°	3332.0	2877.2	2554.5	2485.8	2604.8	2607.4	2633.9	2636.5	2581.0	2562.5
50°	3638.8	3152.2	2834.9	2734.4	2935.4	2842.8	2771.4	2723.8	2639.2	2599.5
52.5°	3940.2	3347.9	3094.0	2990.9	3199.8	2953.9	2824.3	2678.8	2554.5	2512.2
55°	4101.6	3670.5	3472.2	3231.5	3258.0	2985.6	2660.3	2477.9	2266.3	2255.7
57.5°	4292.0	3887.4	3792.2	3395.5	3160.1	2763.5	2319.2	2078.5	1851.1	1824.7
60°	4516.7	4231.1	4130.6	3369.0	2813.7	2321.8	1837.9	1528.5	1314.3	1295.8
62.5°	4768.0	4638.4	4339.6	3109.9	2234.6	1634.3	1213.8	954.7	756.3	745.7
65°	5164.6	4979.5	4450.6	2618.0	1478.3	1047.2	806.6	618.8	499.8	494.5
67.5°	5413.2	5109.1	4202.0	1867.0	819.8	692.8	565.9	449.6	346.4	325.3
70°	5061.5	4688.6	3324.1	1068.4	476.0	526.2	436.3	301.5	238.0	232.7
72.5°	4043.4	3480.1	2237.2	502.4	296.2	412.5	317.3	203.6	142.8	137.5
75°	2758.2	2189.6	1404.2	232.7	208.9	301.5	232.7	119.0	100.5	100.5
77.5°	1232.3	1116.0	719.3	142.8	156.0	230.1	134.9	82.0	74.0	71.4
80°	375.5	394.0	293.5	97.8	116.4	174.5	82.0	55.5	45.0	42.3
82.5°	126.9	148.1	132.2	58.2	79.3	124.3	55.5	37.0	31.7	31.7
85°	60.8	74.0	66.1	37.0	42.3	60.8	45.0	29.1	18.5	18.5
87.5°	23.8	34.4	23.8	15.9	23.8	31.7	18.5	13.2	5.3	5.3
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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