

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: P676261

Luminaire Tested: **CCW-SA-2D-730-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676261  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-730-U-T2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T2 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

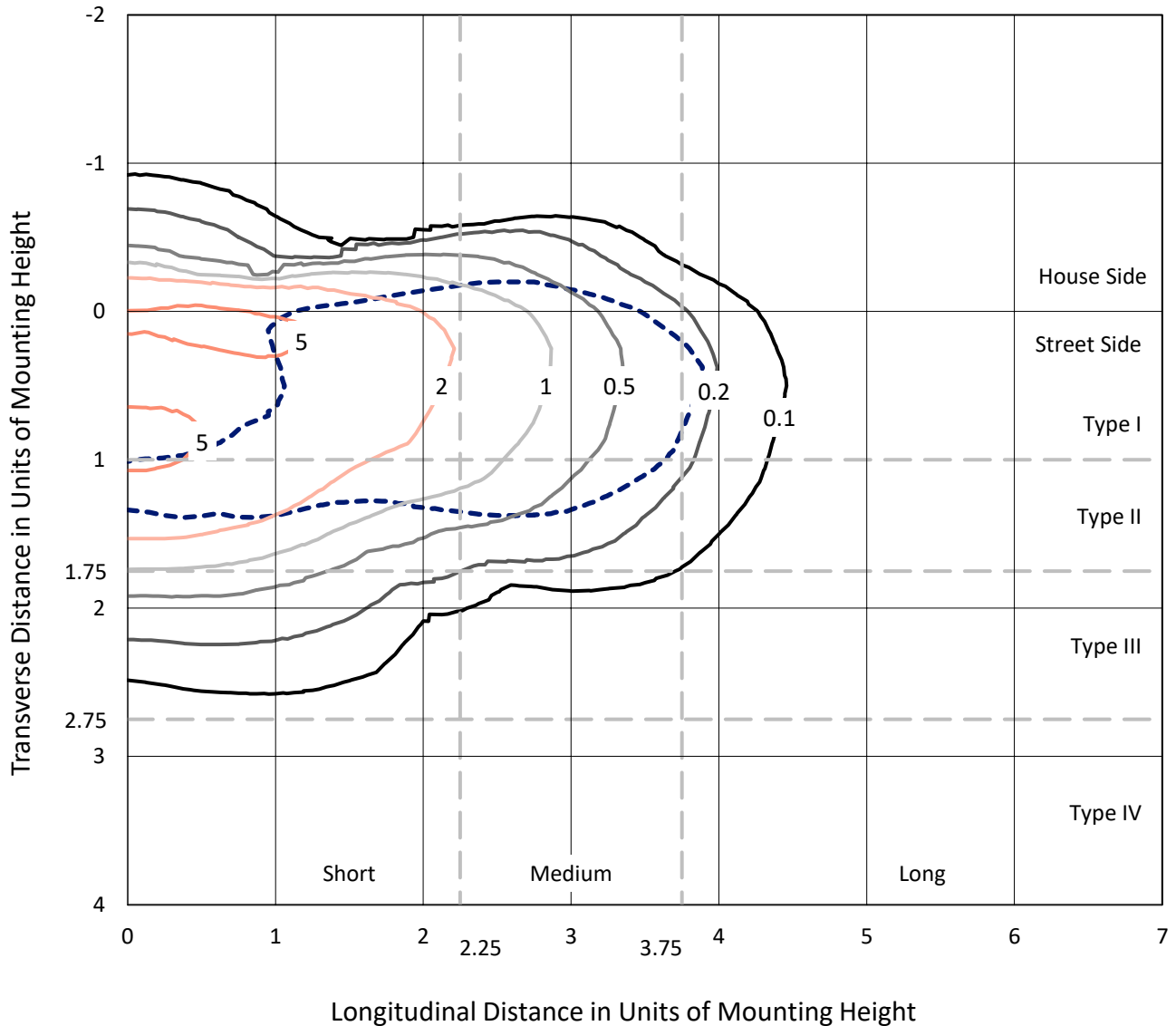
Lumens per Lamp: N/A  
Luminaire Lumens: 7840.6 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

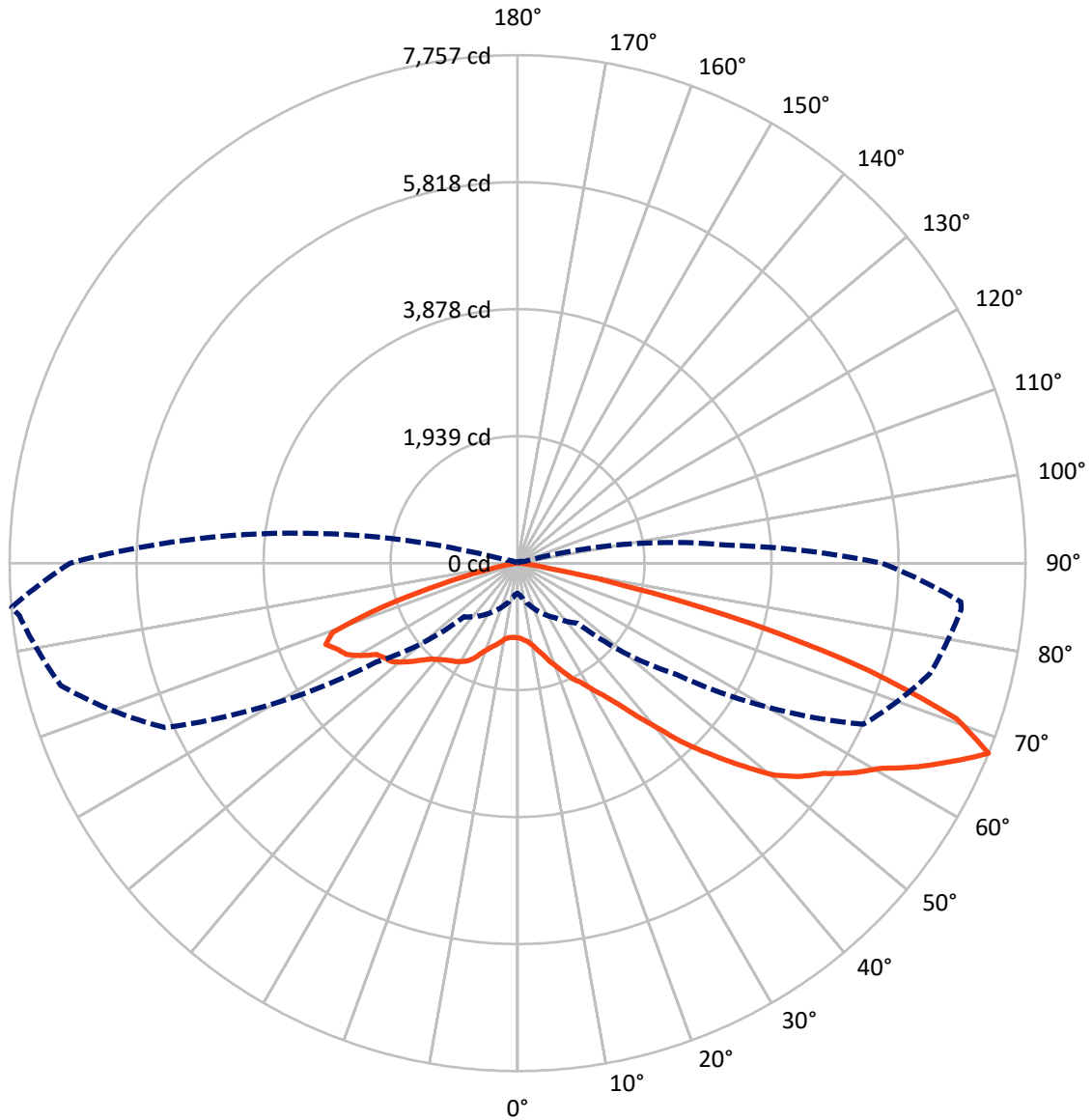
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 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	1113.9	0.0	1113.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	6726.7	0.0	6726.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	7840.6	0.0	7840.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	1.3
10°-20°	279.6	3.6
20°-30°	464.3	5.9
30°-40°	798.8	10.2
40°-50°	1435.4	18.3
50°-60°	2043.4	26.1
60°-70°	1862.9	23.8
70°-80°	793.3	10.1
80°-90°	59.1	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°	7840.6	100.0
0°-180°	7840.6	100.0



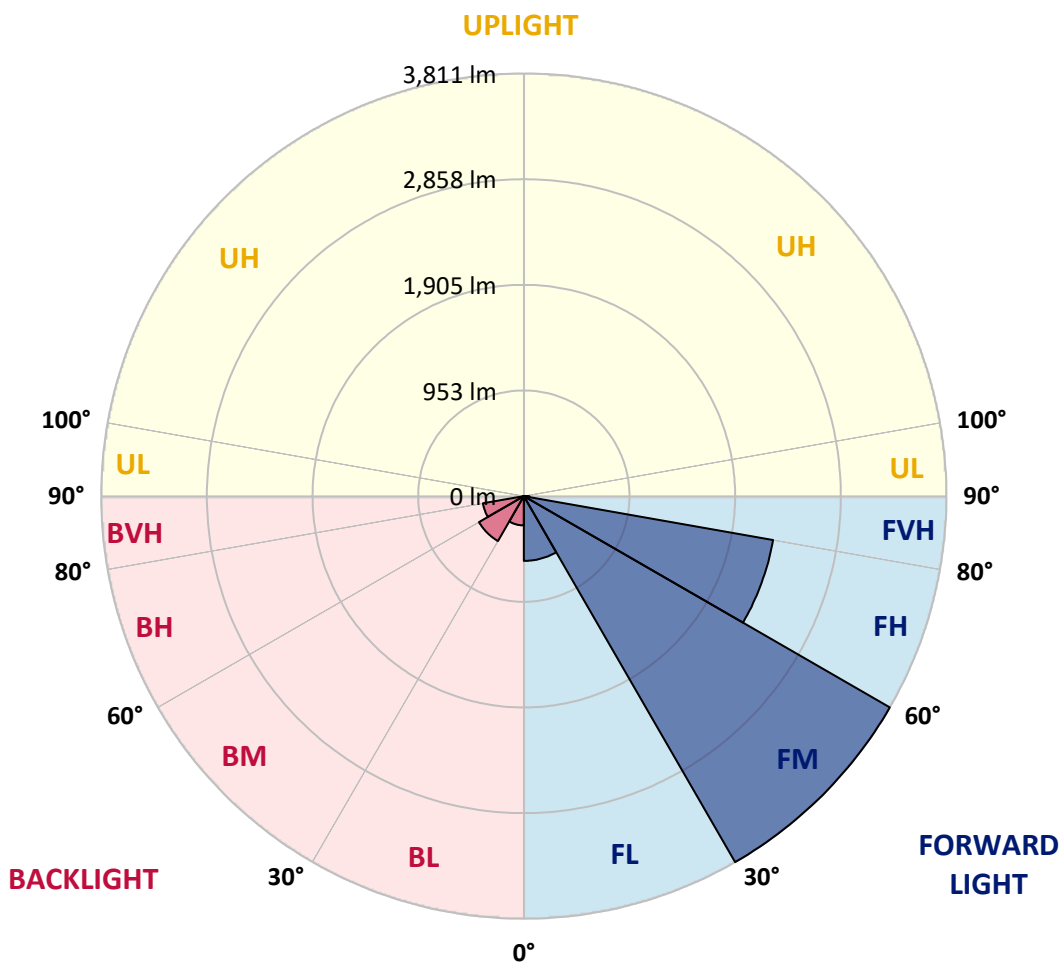
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.1	7.4			
FM (30°-60°)	3810.6	48.6			
FH (60°-80°)	2281.9	29.1			G2/5000
FVH (80°-90°)	50.1	0.6			G1/100
BL (0°-30°)	263.7	3.4	B1/500		
BM (30°-60°)	467.0	6.0	B1/1000		
BH (60°-80°)	374.3	4.8	B1/500		G1/500
BVH (80°-90°)	8.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1
2.5°	1181.3	1192.5	1192.5	1188.7	1177.5	1170.0	1166.3	1158.8	1151.4	1151.4	1155.1
5°	1192.5	1181.3	1196.2	1177.5	1177.5	1177.5	1192.5	1185.0	1181.3	1162.6	1162.6
7.5°	1192.5	1181.3	1181.3	1192.5	1181.3	1188.7	1207.4	1199.9	1214.9	1181.3	1188.7
10°	1158.8	1155.1	1162.6	1177.5	1181.3	1196.2	1214.9	1252.3	1256.0	1233.6	1229.9
12.5°	1091.5	1087.8	1114.0	1121.4	1166.3	1203.7	1259.8	1289.7	1323.3	1312.1	1289.7
15°	1042.9	1050.4	1069.1	1099.0	1140.1	1207.4	1271.0	1338.3	1398.1	1383.1	1375.6
17.5°	1061.6	1057.9	1061.6	1080.3	1132.7	1199.9	1308.4	1386.9	1472.8	1472.8	1480.3
20°	1117.7	1128.9	1125.2	1114.0	1140.1	1196.2	1308.4	1446.7	1588.7	1577.5	1577.5
22.5°	1214.9	1218.6	1196.2	1188.7	1185.0	1218.6	1330.8	1521.4	1685.9	1708.3	1700.9
25°	1315.8	1319.6	1312.1	1289.7	1259.8	1267.2	1371.9	1581.2	1820.5	1857.9	1850.4
27.5°	1484.0	1480.3	1461.6	1435.5	1390.6	1357.0	1435.5	1626.1	1925.2	1988.7	1970.0
30°	1652.3	1641.1	1614.9	1581.2	1540.1	1476.6	1514.0	1712.1	2056.0	2115.8	2074.7
32.5°	1857.9	1835.4	1842.9	1790.6	1704.6	1603.7	1596.2	1790.6	2160.7	2246.6	2213.0
35°	2119.5	2093.4	2056.0	2007.4	1925.2	1790.6	1749.5	1917.7	2336.4	2399.9	2399.9
37.5°	2463.4	2489.6	2444.8	2242.9	2153.2	2026.1	1940.1	2048.5	2489.6	2642.9	2605.5
40°	2814.8	2837.3	2755.0	2605.5	2411.1	2254.1	2201.8	2261.6	2721.4	2904.6	2833.5
42.5°	3098.9	3128.8	3098.9	2904.6	2751.3	2549.4	2456.0	2512.0	3020.4	3241.0	3147.5
45°	3398.0	3427.9	3394.2	3267.2	3117.6	3001.7	2766.2	2837.3	3334.4	3663.4	3558.7
47.5°	3622.3	3659.7	3599.8	3573.7	3454.1	3435.4	3035.4	3113.9	3663.4	4089.5	3958.7
50°	3674.6	3715.7	3768.1	3798.0	3756.9	3801.7	3398.0	3465.3	4007.3	4482.1	4355.0
52.5°	3551.3	3592.4	3708.3	3846.6	4037.2	4171.8	3764.3	3820.4	4366.2	4807.3	4740.0
55°	3188.7	3226.0	3461.5	3648.4	4104.5	4325.1	4115.7	4351.2	4624.1	5147.4	4983.0
57.5°	2579.3	2624.2	2934.5	3222.3	3880.2	4239.1	4325.1	4792.3	5050.3	5397.9	5207.3
60°	1831.7	1857.9	2127.0	2635.4	3259.7	3809.2	4283.9	5121.3	5386.7	5734.3	5633.4
62.5°	1054.2	1076.6	1357.0	1835.4	2459.7	3181.2	4100.8	5431.5	5749.3	6104.4	6048.3
65°	699.0	706.5	897.2	1158.8	1599.9	2343.8	3637.2	5708.2	6108.2	6399.7	6336.2
67.5°	459.8	500.9	650.4	829.9	1024.3	1297.1	2964.4	5824.1	6519.4	6810.9	6796.0
70°	329.0	343.9	467.3	639.2	770.1	728.9	1734.5	5005.4	6500.7	6923.1	6799.7
72.5°	194.4	209.3	310.3	478.5	605.6	463.5	811.2	3540.0	5386.7	5525.0	5491.4
75°	142.1	142.1	190.6	343.9	441.1	332.7	381.3	2239.2	3577.4	3883.9	3880.2
77.5°	100.9	104.7	130.8	205.6	340.2	243.0	209.3	1244.8	1955.1	2138.2	2037.3
80°	59.8	63.5	89.7	123.4	246.7	175.7	138.3	568.2	751.4	758.8	721.5
82.5°	44.9	44.9	59.8	86.0	172.0	119.6	86.0	216.8	243.0	220.6	186.9
85°	26.2	22.4	44.9	63.5	100.9	67.3	59.8	100.9	112.1	82.2	74.8
87.5°	7.5	7.5	18.7	22.4	44.9	37.4	26.2	37.4	52.3	29.9	22.4
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°	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1
2.5°	1147.6	1136.4	1117.7	1110.2	1084.1	1072.9	1065.4	1046.7	1050.4	1039.2	1039.2
5°	1136.4	1136.4	1099.0	1057.9	1016.8	990.6	960.7	923.3	923.3	908.4	912.1
7.5°	1177.5	1147.6	1099.0	1024.3	957.0	897.2	871.0	833.6	811.2	800.0	800.0
10°	1203.7	1173.8	1091.5	1001.8	915.8	841.1	785.0	732.7	702.8	702.8	699.0
12.5°	1274.7	1229.9	1121.4	998.1	871.0	758.8	672.9	613.1	571.9	542.0	549.5
15°	1334.5	1285.9	1136.4	968.2	792.5	635.5	530.8	418.7	362.6	332.7	321.5
17.5°	1428.0	1338.3	1170.0	915.8	672.9	497.2	343.9	250.5	228.0	224.3	224.3
20°	1506.5	1401.8	1173.8	814.9	553.2	317.7	220.6	205.6	194.4	190.6	186.9
22.5°	1614.9	1484.0	1158.8	699.0	396.2	213.1	186.9	172.0	164.5	153.3	153.3
25°	1727.0	1592.5	1128.9	590.6	243.0	183.2	164.5	149.5	134.6	127.1	130.8
27.5°	1846.7	1674.7	1042.9	459.8	186.9	160.7	134.6	123.4	115.9	112.1	112.1
30°	1943.8	1727.0	915.8	306.5	168.2	142.1	119.6	108.4	100.9	97.2	97.2
32.5°	2014.9	1771.9	773.8	205.6	153.3	127.1	108.4	97.2	89.7	86.0	86.0
35°	2134.5	1805.5	643.0	175.7	138.3	112.1	93.5	86.0	78.5	78.5	78.5
37.5°	2317.7	1850.4	512.1	160.7	127.1	100.9	89.7	78.5	74.8	71.0	71.0
40°	2478.4	1906.5	366.3	145.8	115.9	93.5	78.5	71.0	67.3	63.5	63.5
42.5°	2710.2	1970.0	239.2	130.8	104.7	86.0	71.0	63.5	59.8	56.1	56.1
45°	3005.5	2074.7	186.9	115.9	93.5	78.5	67.3	59.8	52.3	52.3	48.6
47.5°	3319.5	2201.8	168.2	108.4	86.0	71.0	59.8	52.3	48.6	44.9	44.9
50°	3611.1	2325.1	157.0	100.9	78.5	67.3	56.1	48.6	41.1	37.4	37.4
52.5°	3872.7	2441.0	149.5	93.5	74.8	59.8	48.6	41.1	37.4	33.6	33.6
55°	4011.0	2493.4	145.8	89.7	67.3	56.1	44.9	37.4	33.6	29.9	29.9
57.5°	4227.9	2560.6	142.1	86.0	63.5	48.6	41.1	33.6	29.9	26.2	26.2
60°	4579.2	2781.2	138.3	82.2	59.8	48.6	37.4	29.9	22.4	18.7	18.7
62.5°	4870.8	2964.4	123.4	71.0	52.3	41.1	29.9	22.4	15.0	11.2	11.2
65°	5203.5	3050.3	108.4	63.5	44.9	33.6	22.4	15.0	11.2	3.7	3.7
67.5°	5566.1	3181.2	89.7	56.1	41.1	26.2	18.7	11.2	3.7	0.0	0.0
70°	5375.5	3016.7	74.8	48.6	37.4	22.4	15.0	7.5	0.0	0.0	0.0
72.5°	4212.9	2160.7	59.8	44.9	33.6	22.4	15.0	3.7	0.0	0.0	0.0
75°	2814.8	1222.4	52.3	37.4	26.2	18.7	11.2	3.7	0.0	0.0	0.0
77.5°	1528.9	549.5	44.9	33.6	22.4	15.0	11.2	3.7	0.0	0.0	0.0
80°	497.2	216.8	37.4	29.9	22.4	15.0	11.2	3.7	0.0	0.0	0.0
82.5°	134.6	67.3	37.4	29.9	22.4	15.0	11.2	3.7	0.0	0.0	0.0
85°	56.1	44.9	37.4	29.9	22.4	15.0	11.2	3.7	0.0	0.0	0.0
87.5°	22.4	15.0	15.0	18.7	15.0	11.2	7.5	3.7	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°	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1
2.5°	1042.9	1050.4	1054.2	1054.2	1072.9	1091.5	1114.0	1132.7	1132.7	1143.9	1155.1
5°	915.8	923.3	934.5	968.2	1005.6	1046.7	1087.8	1117.7	1158.8	1177.5	1188.7
7.5°	811.2	818.7	848.6	882.2	934.5	1005.6	1076.6	1143.9	1185.0	1203.7	1218.6
10°	702.8	714.0	747.6	807.4	874.7	960.7	1042.9	1158.8	1226.1	1263.5	1278.5
12.5°	545.8	575.7	620.5	684.1	770.1	900.9	1054.2	1173.8	1289.7	1334.5	1364.4
15°	343.9	370.1	441.1	542.0	657.9	811.2	1024.3	1196.2	1357.0	1401.8	1450.4
17.5°	220.6	224.3	246.7	355.1	504.7	699.0	979.4	1229.9	1431.7	1495.3	1570.0
20°	186.9	194.4	198.1	213.1	336.4	575.7	885.9	1271.0	1521.4	1607.4	1678.4
22.5°	157.0	160.7	168.2	179.4	201.9	418.7	758.8	1271.0	1599.9	1727.0	1809.3
25°	127.1	134.6	142.1	153.3	175.7	261.7	628.0	1248.5	1693.4	1850.4	1955.1
27.5°	112.1	112.1	119.6	130.8	149.5	183.2	497.2	1181.3	1764.4	1925.2	2063.5
30°	97.2	100.9	104.7	115.9	134.6	160.7	343.9	1072.9	1839.2	2070.9	2227.9
32.5°	86.0	86.0	93.5	100.9	119.6	145.8	220.6	908.4	1936.4	2183.1	2403.6
35°	78.5	78.5	82.2	89.7	108.4	130.8	172.0	770.1	2052.3	2396.2	2639.1
37.5°	71.0	71.0	74.8	82.2	97.2	115.9	157.0	661.7	2171.9	2609.2	2964.4
40°	63.5	63.5	67.3	74.8	86.0	104.7	142.1	534.6	2321.4	2923.2	3319.5
42.5°	56.1	56.1	59.8	67.3	78.5	93.5	123.4	400.0	2519.5	3263.4	3779.3
45°	48.6	48.6	52.3	59.8	67.3	86.0	112.1	306.5	2736.3	3641.0	4183.0
47.5°	41.1	44.9	48.6	56.1	63.5	78.5	100.9	269.1	2949.4	4041.0	4631.6
50°	37.4	37.4	41.1	48.6	59.8	71.0	93.5	265.4	3166.2	4347.5	5091.4
52.5°	33.6	33.6	37.4	44.9	56.1	67.3	89.7	272.9	3345.7	4631.6	5412.9
55°	29.9	29.9	33.6	37.4	48.6	63.5	82.2	280.4	3472.8	4919.4	5670.8
57.5°	26.2	26.2	29.9	37.4	44.9	56.1	74.8	287.8	3678.4	5203.5	6044.6
60°	18.7	18.7	26.2	33.6	41.1	48.6	71.0	295.3	4007.3	5596.0	6362.3
62.5°	11.2	11.2	15.0	26.2	33.6	44.9	63.5	280.4	4313.8	6100.7	6848.3
65°	3.7	7.5	11.2	15.0	26.2	37.4	52.3	254.2	4571.8	6605.3	7296.9
67.5°	0.0	0.0	3.7	11.2	22.4	29.9	44.9	186.9	4612.9	6833.4	7756.7
70°	0.0	0.0	3.7	11.2	18.7	29.9	41.1	104.7	3928.8	6104.4	7110.0
72.5°	0.0	0.0	0.0	7.5	18.7	26.2	37.4	78.5	2897.1	4601.7	5618.5
75°	0.0	0.0	0.0	3.7	15.0	22.4	33.6	59.8	1760.7	3069.0	3667.1
77.5°	0.0	0.0	0.0	3.7	11.2	22.4	33.6	52.3	620.5	1461.6	1723.3
80°	0.0	0.0	0.0	7.5	15.0	22.4	29.9	44.9	149.5	366.3	493.4
82.5°	0.0	0.0	0.0	3.7	11.2	18.7	26.2	37.4	59.8	108.4	172.0
85°	0.0	0.0	0.0	3.7	7.5	18.7	26.2	33.6	41.1	52.3	74.8
87.5°	0.0	0.0	0.0	0.0	3.7	7.5	11.2	15.0	15.0	15.0	26.2
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°	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1	1140.1
2.5°	1151.4	1166.3	1173.8	1188.7	1196.2	1192.5	1188.7	1199.9	1192.5	1181.3
5°	1192.5	1192.5	1203.7	1207.4	1207.4	1196.2	1203.7	1199.9	1192.5	1192.5
7.5°	1237.3	1256.0	1256.0	1233.6	1229.9	1222.4	1222.4	1192.5	1181.3	1192.5
10°	1282.2	1297.1	1300.9	1274.7	1241.1	1226.1	1207.4	1170.0	1151.4	1158.8
12.5°	1375.6	1375.6	1334.5	1304.6	1259.8	1207.4	1162.6	1110.2	1084.1	1091.5
15°	1442.9	1457.9	1401.8	1334.5	1256.0	1158.8	1110.2	1069.1	1054.2	1042.9
17.5°	1573.8	1543.9	1454.1	1357.0	1244.8	1143.9	1110.2	1072.9	1061.6	1061.6
20°	1685.9	1671.0	1536.4	1360.7	1241.1	1173.8	1151.4	1132.7	1128.9	1117.7
22.5°	1839.2	1771.9	1599.9	1401.8	1282.2	1222.4	1214.9	1233.6	1222.4	1214.9
25°	1955.1	1899.0	1648.5	1461.6	1345.7	1327.0	1338.3	1357.0	1327.0	1315.8
27.5°	2112.1	2007.4	1742.0	1540.1	1431.7	1450.4	1487.8	1491.5	1472.8	1484.0
30°	2257.8	2145.7	1813.0	1629.8	1577.5	1596.2	1652.3	1693.4	1667.2	1652.3
32.5°	2467.2	2295.2	1955.1	1779.4	1760.7	1809.3	1872.8	1899.0	1865.3	1857.9
35°	2687.7	2467.2	2100.8	1947.6	1981.2	2048.5	2104.6	2149.4	2097.1	2119.5
37.5°	3031.6	2743.8	2347.6	2213.0	2227.9	2254.1	2358.8	2482.1	2508.3	2463.4
40°	3390.5	3042.9	2575.6	2470.9	2504.6	2575.6	2699.0	2814.8	2874.6	2814.8
42.5°	3805.4	3330.7	2927.0	2803.6	2837.3	2938.2	3102.7	3196.1	3188.7	3098.9
45°	4317.6	3730.7	3255.9	3102.7	3226.0	3315.7	3480.2	3491.4	3420.4	3398.0
47.5°	4710.1	4067.1	3611.1	3513.9	3682.1	3685.8	3723.2	3726.9	3648.4	3622.3
50°	5143.7	4455.9	4007.3	3865.3	4149.4	4018.5	3917.6	3850.3	3730.7	3674.6
52.5°	5569.9	4732.5	4373.6	4227.9	4523.2	4175.5	3992.4	3786.8	3611.1	3551.3
55°	5797.9	5188.6	4908.2	4568.0	4605.4	4220.4	3760.6	3502.7	3203.6	3188.7
57.5°	6067.0	5495.1	5360.5	4799.8	4467.1	3906.4	3278.4	2938.2	2616.7	2579.3
60°	6384.8	5981.1	5839.0	4762.4	3977.4	3282.1	2598.0	2160.7	1857.9	1831.7
62.5°	6739.9	6556.7	6134.3	4396.1	3158.7	2310.2	1715.8	1349.5	1069.1	1054.2
65°	7300.6	7039.0	6291.3	3700.8	2089.6	1480.3	1140.1	874.7	706.5	699.0
67.5°	7652.0	7222.1	5939.9	2639.1	1158.8	979.4	800.0	635.5	489.7	459.8
70°	7154.8	6627.8	4698.9	1510.2	672.9	743.9	616.8	426.2	336.4	329.0
72.5°	5715.6	4919.4	3162.5	710.3	418.7	583.2	448.6	287.8	201.9	194.4
75°	3898.9	3095.2	1985.0	329.0	295.3	426.2	329.0	168.2	142.1	142.1
77.5°	1742.0	1577.5	1016.8	201.9	220.6	325.2	190.6	115.9	104.7	100.9
80°	530.8	557.0	414.9	138.3	164.5	246.7	115.9	78.5	63.5	59.8
82.5°	179.4	209.3	186.9	82.2	112.1	175.7	78.5	52.3	44.9	44.9
85°	86.0	104.7	93.5	52.3	59.8	86.0	63.5	41.1	26.2	26.2
87.5°	33.6	48.6	33.6	22.4	33.6	44.9	26.2	18.7	7.5	7.5
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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