

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: P676238

Luminaire Tested: **CCW-SA-2C-722-U-T2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676238  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-722-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) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

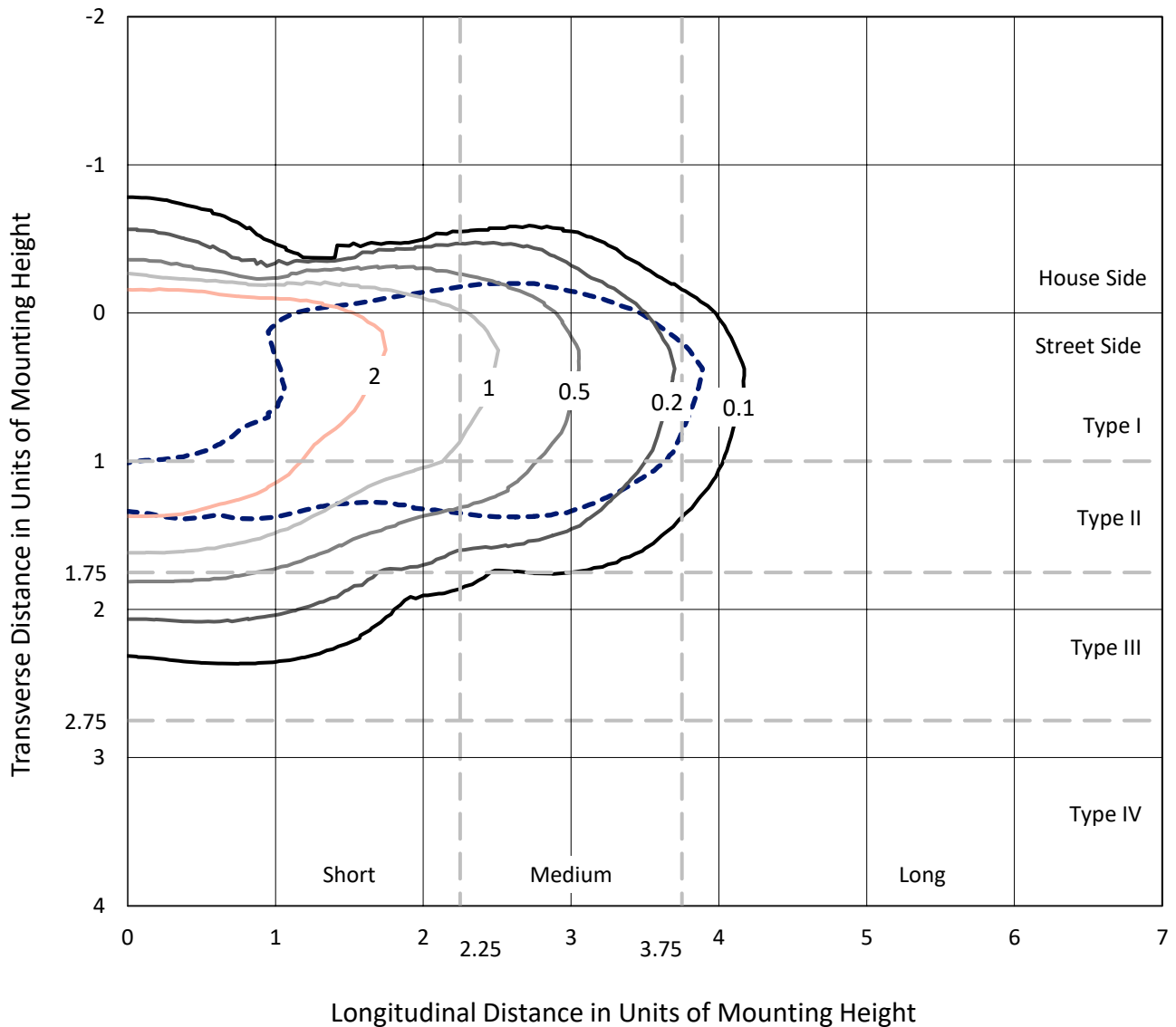
Lumens per Lamp: N/A  
Luminaire Lumens: 5141.8 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

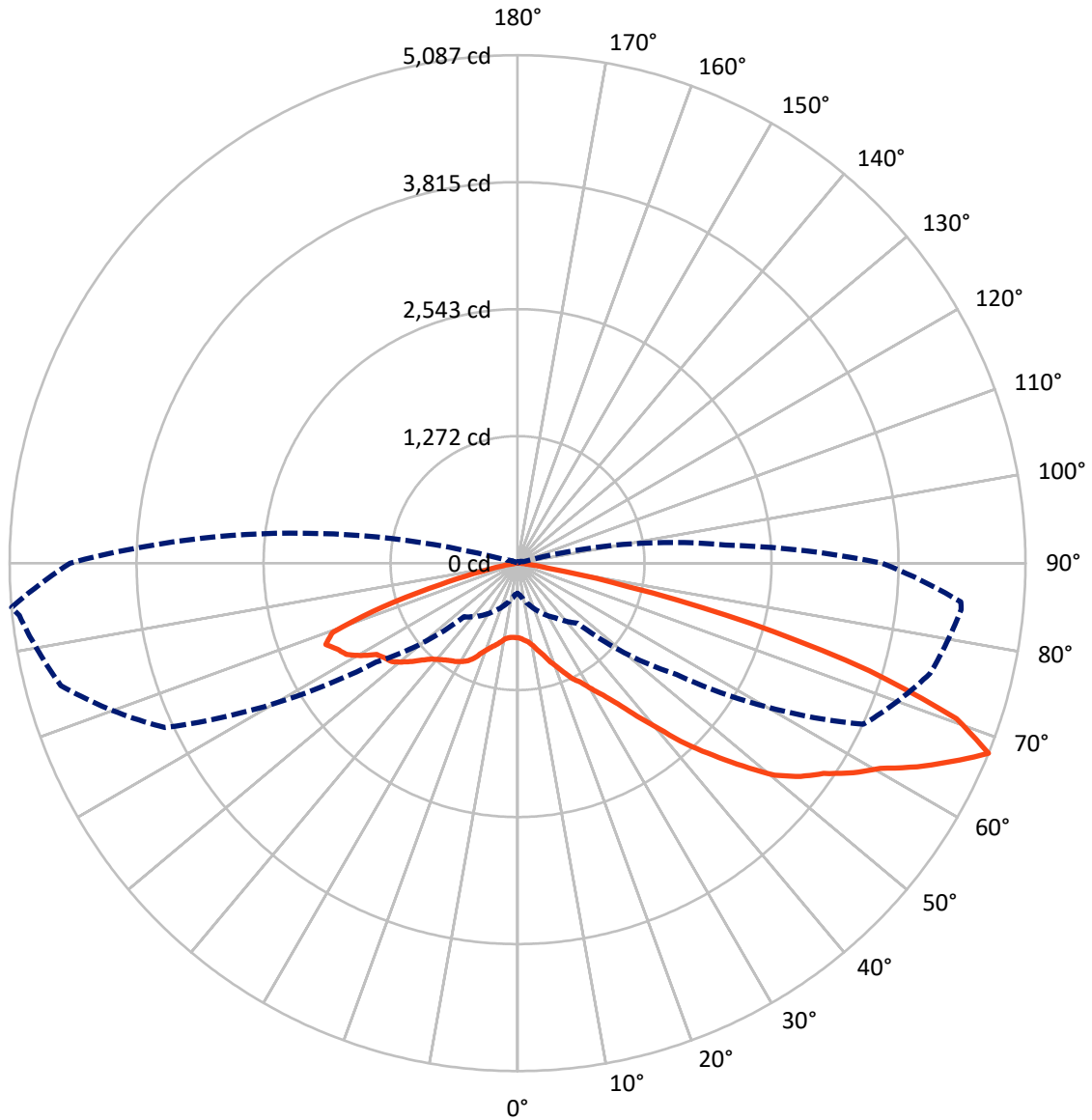
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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	730.5	0.0	730.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	4411.3	0.0	4411.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	5141.8	0.0	5141.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	1.3
10°-20°	183.3	3.6
20°-30°	304.5	5.9
30°-40°	523.8	10.2
40°-50°	941.3	18.3
50°-60°	1340.0	26.1
60°-70°	1221.7	23.8
70°-80°	520.2	10.1
80°-90°	38.7	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°	5141.8	100.0
0°-180°	5141.8	100.0



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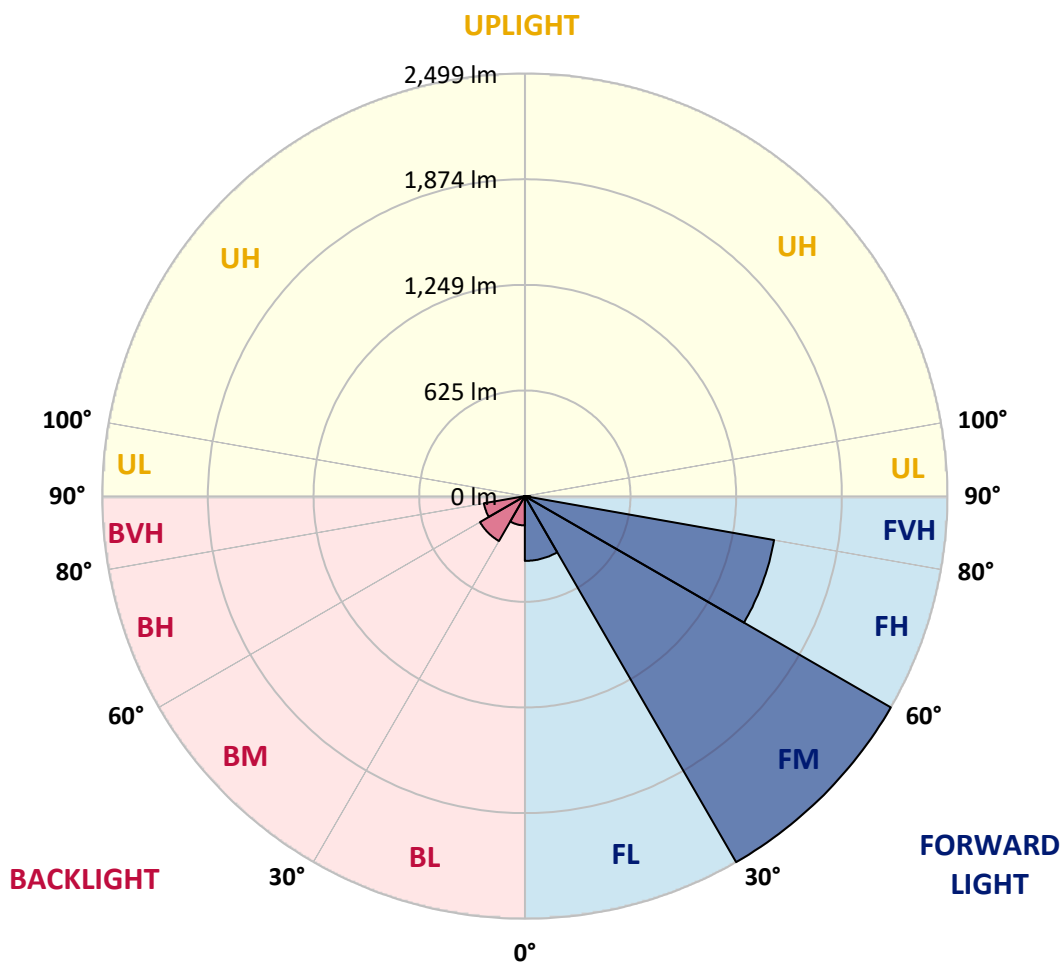
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.0	7.4			
FM (30°-60°)	2498.9	48.6			
FH (60°-80°)	1496.5	29.1			G1/1800
FVH (80°-90°)	32.9	0.6			G1/100
BL (0°-30°)	172.9	3.4	B1/500		
BM (30°-60°)	306.3	6.0	B1/1000		
BH (60°-80°)	245.5	4.8	B1/500		G1/500
BVH (80°-90°)	5.8	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°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	774.7	782.0	782.0	779.6	772.2	767.3	764.8	759.9	755.0	755.0	757.5
5°	782.0	774.7	784.5	772.2	772.2	772.2	782.0	777.1	774.7	762.4	762.4
7.5°	782.0	774.7	774.7	782.0	774.7	779.6	791.8	786.9	796.7	774.7	779.6
10°	759.9	757.5	762.4	772.2	774.7	784.5	796.7	821.2	823.7	809.0	806.5
12.5°	715.8	713.4	730.5	735.4	764.8	789.4	826.1	845.7	867.8	860.5	845.7
15°	684.0	688.9	701.1	720.7	747.7	791.8	833.5	877.6	916.8	907.0	902.1
17.5°	696.2	693.8	696.2	708.5	742.8	786.9	858.0	909.5	965.9	965.9	970.8
20°	733.0	740.3	737.9	730.5	747.7	784.5	858.0	948.7	1041.9	1034.5	1034.5
22.5°	796.7	799.2	784.5	779.6	777.1	799.2	872.7	997.7	1105.6	1120.3	1115.4
25°	862.9	865.4	860.5	845.7	826.1	831.0	899.7	1037.0	1193.8	1218.4	1213.5
27.5°	973.2	970.8	958.5	941.4	911.9	889.9	941.4	1066.4	1262.5	1304.2	1291.9
30°	1083.5	1076.2	1059.0	1037.0	1010.0	968.3	992.8	1122.8	1348.3	1387.5	1360.5
32.5°	1218.4	1203.7	1208.6	1174.2	1117.9	1051.7	1046.8	1174.2	1416.9	1473.3	1451.2
35°	1390.0	1372.8	1348.3	1316.4	1262.5	1174.2	1147.3	1257.6	1532.1	1573.8	1573.8
37.5°	1615.5	1632.7	1603.2	1470.9	1412.0	1328.7	1272.3	1343.4	1632.7	1733.2	1708.7
40°	1845.9	1860.6	1806.7	1708.7	1581.2	1478.2	1443.9	1483.1	1784.6	1904.8	1858.2
42.5°	2032.2	2051.9	2032.2	1904.8	1804.3	1671.9	1610.6	1647.4	1980.8	2125.4	2064.1
45°	2228.4	2248.0	2225.9	2142.6	2044.5	1968.5	1814.1	1860.6	2186.7	2402.4	2333.8
47.5°	2375.4	2400.0	2360.7	2343.6	2265.1	2252.9	1990.6	2042.0	2402.4	2681.9	2596.1
50°	2409.8	2436.7	2471.0	2490.7	2463.7	2493.1	2228.4	2272.5	2627.9	2939.3	2855.9
52.5°	2328.9	2355.8	2431.8	2522.5	2647.5	2735.8	2468.6	2505.4	2863.3	3152.5	3108.4
55°	2091.1	2115.6	2270.0	2392.6	2691.7	2836.3	2699.0	2853.5	3032.4	3375.6	3267.8
57.5°	1691.5	1720.9	1924.4	2113.1	2544.6	2779.9	2836.3	3142.7	3311.9	3539.9	3414.8
60°	1201.2	1218.4	1394.9	1728.3	2137.7	2498.0	2809.3	3358.5	3532.5	3760.5	3694.3
62.5°	691.3	706.0	889.9	1203.7	1613.0	2086.2	2689.2	3561.9	3770.3	4003.2	3966.4
65°	458.4	463.3	588.3	759.9	1049.2	1537.0	2385.2	3743.3	4005.6	4196.9	4155.2
67.5°	301.5	328.5	426.5	544.2	671.7	850.6	1944.0	3819.3	4275.3	4466.5	4456.7
70°	215.7	225.5	306.4	419.2	505.0	478.0	1137.5	3282.5	4263.0	4540.1	4459.2
72.5°	127.5	137.3	203.5	313.8	397.1	304.0	532.0	2321.5	3532.5	3623.2	3601.2
75°	93.2	93.2	125.0	225.5	289.3	218.2	250.0	1468.4	2346.0	2547.0	2544.6
77.5°	66.2	68.6	85.8	134.8	223.1	159.3	137.3	816.3	1282.1	1402.2	1336.0
80°	39.2	41.7	58.8	80.9	161.8	115.2	90.7	372.6	492.7	497.6	473.1
82.5°	29.4	29.4	39.2	56.4	112.8	78.4	56.4	142.2	159.3	144.6	122.6
85°	17.2	14.7	29.4	41.7	66.2	44.1	39.2	66.2	73.5	53.9	49.0
87.5°	4.9	4.9	12.3	14.7	29.4	24.5	17.2	24.5	34.3	19.6	14.7
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°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	752.6	745.2	733.0	728.1	710.9	703.6	698.7	686.4	688.9	681.5	681.5
5°	745.2	745.2	720.7	693.8	666.8	649.6	630.0	605.5	605.5	595.7	598.2
7.5°	772.2	752.6	720.7	671.7	627.6	588.3	571.2	546.7	532.0	524.6	524.6
10°	789.4	769.8	715.8	657.0	600.6	551.6	514.8	480.5	460.9	460.9	458.4
12.5°	835.9	806.5	735.4	654.5	571.2	497.6	441.3	402.0	375.1	355.5	360.4
15°	875.2	843.3	745.2	634.9	519.7	416.7	348.1	274.6	237.8	218.2	210.8
17.5°	936.4	877.6	767.3	600.6	441.3	326.0	225.5	164.2	149.5	147.1	147.1
20°	987.9	919.3	769.8	534.4	362.8	208.4	144.6	134.8	127.5	125.0	122.6
22.5°	1059.0	973.2	759.9	458.4	259.9	139.7	122.6	112.8	107.9	100.5	100.5
25°	1132.6	1044.3	740.3	387.3	159.3	120.1	107.9	98.1	88.3	83.3	85.8
27.5°	1211.0	1098.2	684.0	301.5	122.6	105.4	88.3	80.9	76.0	73.5	73.5
30°	1274.7	1132.6	600.6	201.0	110.3	93.2	78.4	71.1	66.2	63.7	63.7
32.5°	1321.3	1162.0	507.4	134.8	100.5	83.3	71.1	63.7	58.8	56.4	56.4
35°	1399.8	1184.0	421.6	115.2	90.7	73.5	61.3	56.4	51.5	51.5	51.5
37.5°	1519.9	1213.5	335.8	105.4	83.3	66.2	58.8	51.5	49.0	46.6	46.6
40°	1625.3	1250.2	240.2	95.6	76.0	61.3	51.5	46.6	44.1	41.7	41.7
42.5°	1777.3	1291.9	156.9	85.8	68.6	56.4	46.6	41.7	39.2	36.8	36.8
45°	1971.0	1360.5	122.6	76.0	61.3	51.5	44.1	39.2	34.3	34.3	31.9
47.5°	2176.9	1443.9	110.3	71.1	56.4	46.6	39.2	34.3	31.9	29.4	29.4
50°	2368.1	1524.8	103.0	66.2	51.5	44.1	36.8	31.9	27.0	24.5	24.5
52.5°	2539.7	1600.8	98.1	61.3	49.0	39.2	31.9	27.0	24.5	22.1	22.1
55°	2630.4	1635.1	95.6	58.8	44.1	36.8	29.4	24.5	22.1	19.6	19.6
57.5°	2772.6	1679.2	93.2	56.4	41.7	31.9	27.0	22.1	19.6	17.2	17.2
60°	3003.0	1823.9	90.7	53.9	39.2	31.9	24.5	19.6	14.7	12.3	12.3
62.5°	3194.2	1944.0	80.9	46.6	34.3	27.0	19.6	14.7	9.8	7.4	7.4
65°	3412.4	2000.4	71.1	41.7	29.4	22.1	14.7	9.8	7.4	2.5	2.5
67.5°	3650.2	2086.2	58.8	36.8	27.0	17.2	12.3	7.4	2.5	0.0	0.0
70°	3525.2	1978.3	49.0	31.9	24.5	14.7	9.8	4.9	0.0	0.0	0.0
72.5°	2762.8	1416.9	39.2	29.4	22.1	14.7	9.8	2.5	0.0	0.0	0.0
75°	1845.9	801.6	34.3	24.5	17.2	12.3	7.4	2.5	0.0	0.0	0.0
77.5°	1002.6	360.4	29.4	22.1	14.7	9.8	7.4	2.5	0.0	0.0	0.0
80°	326.0	142.2	24.5	19.6	14.7	9.8	7.4	2.5	0.0	0.0	0.0
82.5°	88.3	44.1	24.5	19.6	14.7	9.8	7.4	2.5	0.0	0.0	0.0
85°	36.8	29.4	24.5	19.6	14.7	9.8	7.4	2.5	0.0	0.0	0.0
87.5°	14.7	9.8	9.8	12.3	9.8	7.4	4.9	2.5	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°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	684.0	688.9	691.3	691.3	703.6	715.8	730.5	742.8	742.8	750.1	757.5
5°	600.6	605.5	612.9	634.9	659.4	686.4	713.4	733.0	759.9	772.2	779.6
7.5°	532.0	536.9	556.5	578.5	612.9	659.4	706.0	750.1	777.1	789.4	799.2
10°	460.9	468.2	490.3	529.5	573.6	630.0	684.0	759.9	804.1	828.6	838.4
12.5°	357.9	377.5	406.9	448.6	505.0	590.8	691.3	769.8	845.7	875.2	894.8
15°	225.5	242.7	289.3	355.5	431.5	532.0	671.7	784.5	889.9	919.3	951.2
17.5°	144.6	147.1	161.8	232.9	330.9	458.4	642.3	806.5	938.9	980.6	1029.6
20°	122.6	127.5	129.9	139.7	220.6	377.5	581.0	833.5	997.7	1054.1	1100.7
22.5°	103.0	105.4	110.3	117.7	132.4	274.6	497.6	833.5	1049.2	1132.6	1186.5
25°	83.3	88.3	93.2	100.5	115.2	171.6	411.8	818.8	1110.5	1213.5	1282.1
27.5°	73.5	73.5	78.4	85.8	98.1	120.1	326.0	774.7	1157.1	1262.5	1353.2
30°	63.7	66.2	68.6	76.0	88.3	105.4	225.5	703.6	1206.1	1358.1	1461.1
32.5°	56.4	56.4	61.3	66.2	78.4	95.6	144.6	595.7	1269.8	1431.6	1576.3
35°	51.5	51.5	53.9	58.8	71.1	85.8	112.8	505.0	1345.8	1571.4	1730.7
37.5°	46.6	46.6	49.0	53.9	63.7	76.0	103.0	433.9	1424.3	1711.1	1944.0
40°	41.7	41.7	44.1	49.0	56.4	68.6	93.2	350.6	1522.3	1917.0	2176.9
42.5°	36.8	36.8	39.2	44.1	51.5	61.3	80.9	262.3	1652.3	2140.1	2478.4
45°	31.9	31.9	34.3	39.2	44.1	56.4	73.5	201.0	1794.5	2387.7	2743.2
47.5°	27.0	29.4	31.9	36.8	41.7	51.5	66.2	176.5	1934.2	2650.0	3037.3
50°	24.5	24.5	27.0	31.9	39.2	46.6	61.3	174.1	2076.4	2851.0	3338.9
52.5°	22.1	22.1	24.5	29.4	36.8	44.1	58.8	179.0	2194.0	3037.3	3549.7
55°	19.6	19.6	22.1	24.5	31.9	41.7	53.9	183.9	2277.4	3226.1	3718.8
57.5°	17.2	17.2	19.6	24.5	29.4	36.8	49.0	188.8	2412.2	3412.4	3964.0
60°	12.3	12.3	17.2	22.1	27.0	31.9	46.6	193.7	2627.9	3669.8	4172.3
62.5°	7.4	7.4	9.8	17.2	22.1	29.4	41.7	183.9	2829.0	4000.7	4491.0
65°	2.5	4.9	7.4	9.8	17.2	24.5	34.3	166.7	2998.1	4331.7	4785.2
67.5°	0.0	0.0	2.5	7.4	14.7	19.6	29.4	122.6	3025.1	4481.2	5086.7
70°	0.0	0.0	2.5	7.4	12.3	19.6	27.0	68.6	2576.5	4003.2	4662.6
72.5°	0.0	0.0	0.0	4.9	12.3	17.2	24.5	51.5	1899.9	3017.7	3684.5
75°	0.0	0.0	0.0	2.5	9.8	14.7	22.1	39.2	1154.6	2012.6	2404.9
77.5°	0.0	0.0	0.0	2.5	7.4	14.7	22.1	34.3	406.9	958.5	1130.1
80°	0.0	0.0	0.0	4.9	9.8	14.7	19.6	29.4	98.1	240.2	323.6
82.5°	0.0	0.0	0.0	2.5	7.4	12.3	17.2	24.5	39.2	71.1	112.8
85°	0.0	0.0	0.0	2.5	4.9	12.3	17.2	22.1	27.0	34.3	49.0
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	7.4	9.8	9.8	9.8	17.2
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°	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7	747.7
2.5°	755.0	764.8	769.8	779.6	784.5	782.0	779.6	786.9	782.0	774.7
5°	782.0	782.0	789.4	791.8	791.8	784.5	789.4	786.9	782.0	782.0
7.5°	811.4	823.7	823.7	809.0	806.5	801.6	801.6	782.0	774.7	782.0
10°	840.8	850.6	853.1	835.9	813.9	804.1	791.8	767.3	755.0	759.9
12.5°	902.1	902.1	875.2	855.6	826.1	791.8	762.4	728.1	710.9	715.8
15°	946.3	956.1	919.3	875.2	823.7	759.9	728.1	701.1	691.3	684.0
17.5°	1032.1	1012.4	953.6	889.9	816.3	750.1	728.1	703.6	696.2	696.2
20°	1105.6	1095.8	1007.5	892.3	813.9	769.8	755.0	742.8	740.3	733.0
22.5°	1206.1	1162.0	1049.2	919.3	840.8	801.6	796.7	809.0	801.6	796.7
25°	1282.1	1245.3	1081.1	958.5	882.5	870.3	877.6	889.9	870.3	862.9
27.5°	1385.1	1316.4	1142.4	1010.0	938.9	951.2	975.7	978.1	965.9	973.2
30°	1480.7	1407.1	1188.9	1068.8	1034.5	1046.8	1083.5	1110.5	1093.3	1083.5
32.5°	1617.9	1505.2	1282.1	1166.9	1154.6	1186.5	1228.2	1245.3	1223.3	1218.4
35°	1762.6	1617.9	1377.7	1277.2	1299.3	1343.4	1380.2	1409.6	1375.3	1390.0
37.5°	1988.1	1799.4	1539.5	1451.2	1461.1	1478.2	1546.9	1627.8	1644.9	1615.5
40°	2223.5	1995.5	1689.0	1620.4	1642.5	1689.0	1769.9	1845.9	1885.2	1845.9
42.5°	2495.6	2184.2	1919.5	1838.6	1860.6	1926.8	2034.7	2096.0	2091.1	2032.2
45°	2831.4	2446.5	2135.2	2034.7	2115.6	2174.4	2282.3	2289.6	2243.1	2228.4
47.5°	3088.8	2667.2	2368.1	2304.3	2414.7	2417.1	2441.6	2444.1	2392.6	2375.4
50°	3373.2	2922.1	2627.9	2534.8	2721.1	2635.3	2569.1	2525.0	2446.5	2409.8
52.5°	3652.6	3103.5	2868.2	2772.6	2966.2	2738.3	2618.1	2483.3	2368.1	2328.9
55°	3802.2	3402.6	3218.7	2995.7	3020.2	2767.7	2466.1	2297.0	2100.9	2091.1
57.5°	3978.7	3603.6	3515.4	3147.6	2929.5	2561.7	2149.9	1926.8	1716.0	1691.5
60°	4187.1	3922.3	3829.1	3123.1	2608.3	2152.4	1703.7	1416.9	1218.4	1201.2
62.5°	4419.9	4299.8	4022.8	2882.9	2071.5	1515.0	1125.2	885.0	701.1	691.3
65°	4787.7	4616.1	4125.8	2426.9	1370.4	970.8	747.7	573.6	463.3	458.4
67.5°	5018.1	4736.2	3895.3	1730.7	759.9	642.3	524.6	416.7	321.1	301.5
70°	4692.0	4346.4	3081.5	990.4	441.3	487.8	404.5	279.5	220.6	215.7
72.5°	3748.2	3226.1	2073.9	465.8	274.6	382.4	294.2	188.8	132.4	127.5
75°	2556.8	2029.8	1301.7	215.7	193.7	279.5	215.7	110.3	93.2	93.2
77.5°	1142.4	1034.5	666.8	132.4	144.6	213.3	125.0	76.0	68.6	66.2
80°	348.1	365.3	272.1	90.7	107.9	161.8	76.0	51.5	41.7	39.2
82.5°	117.7	137.3	122.6	53.9	73.5	115.2	51.5	34.3	29.4	29.4
85°	56.4	68.6	61.3	34.3	39.2	56.4	41.7	27.0	17.2	17.2
87.5°	22.1	31.9	22.1	14.7	22.1	29.4	17.2	12.3	4.9	4.9
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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