

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: P674106

Luminaire Tested: **CCP-SA-1C-730-U-SLL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674106  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-730-U-SLL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ SLL distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

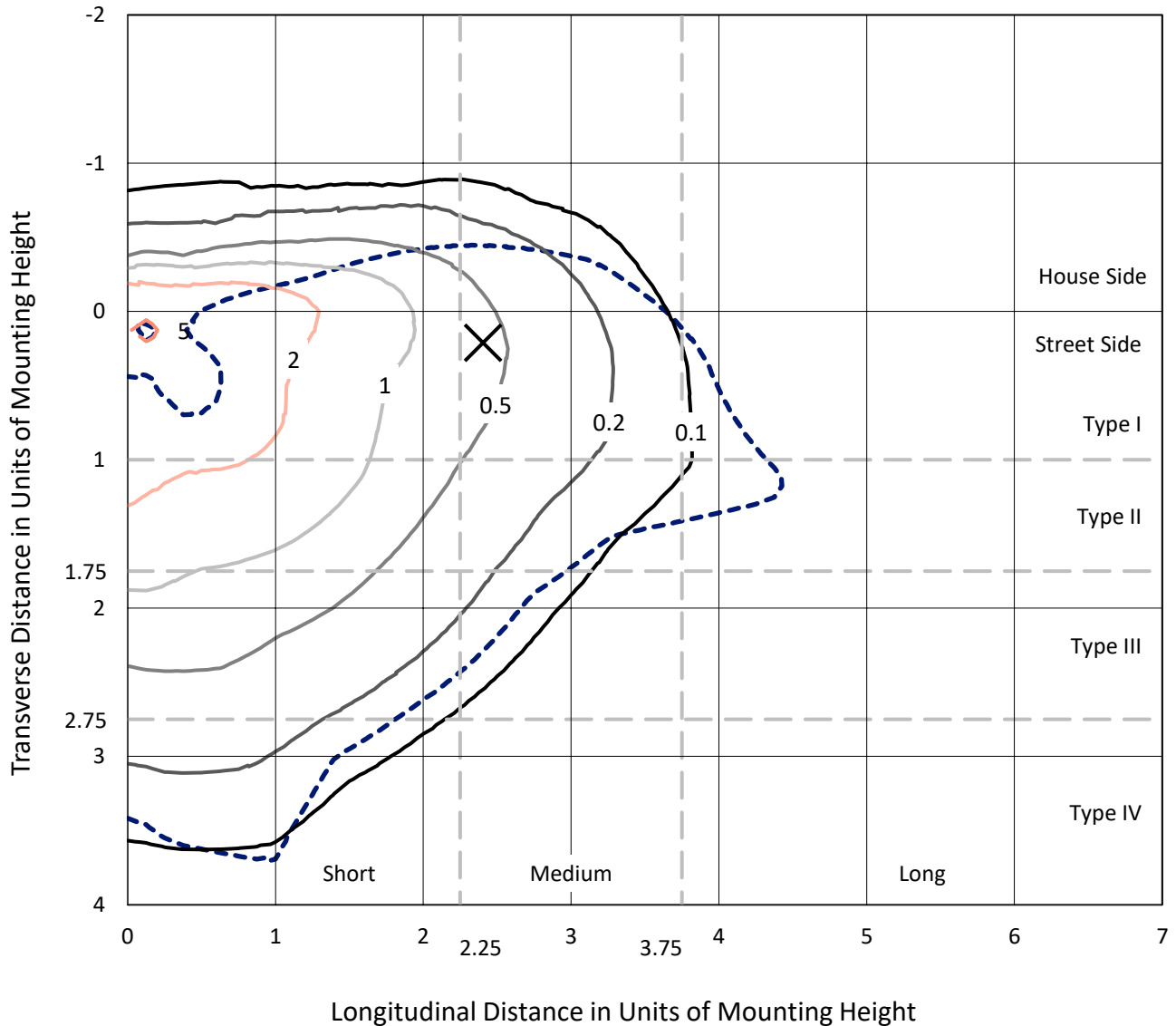
Lumens per Lamp: N/A  
Luminaire Lumens: 2987.1 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

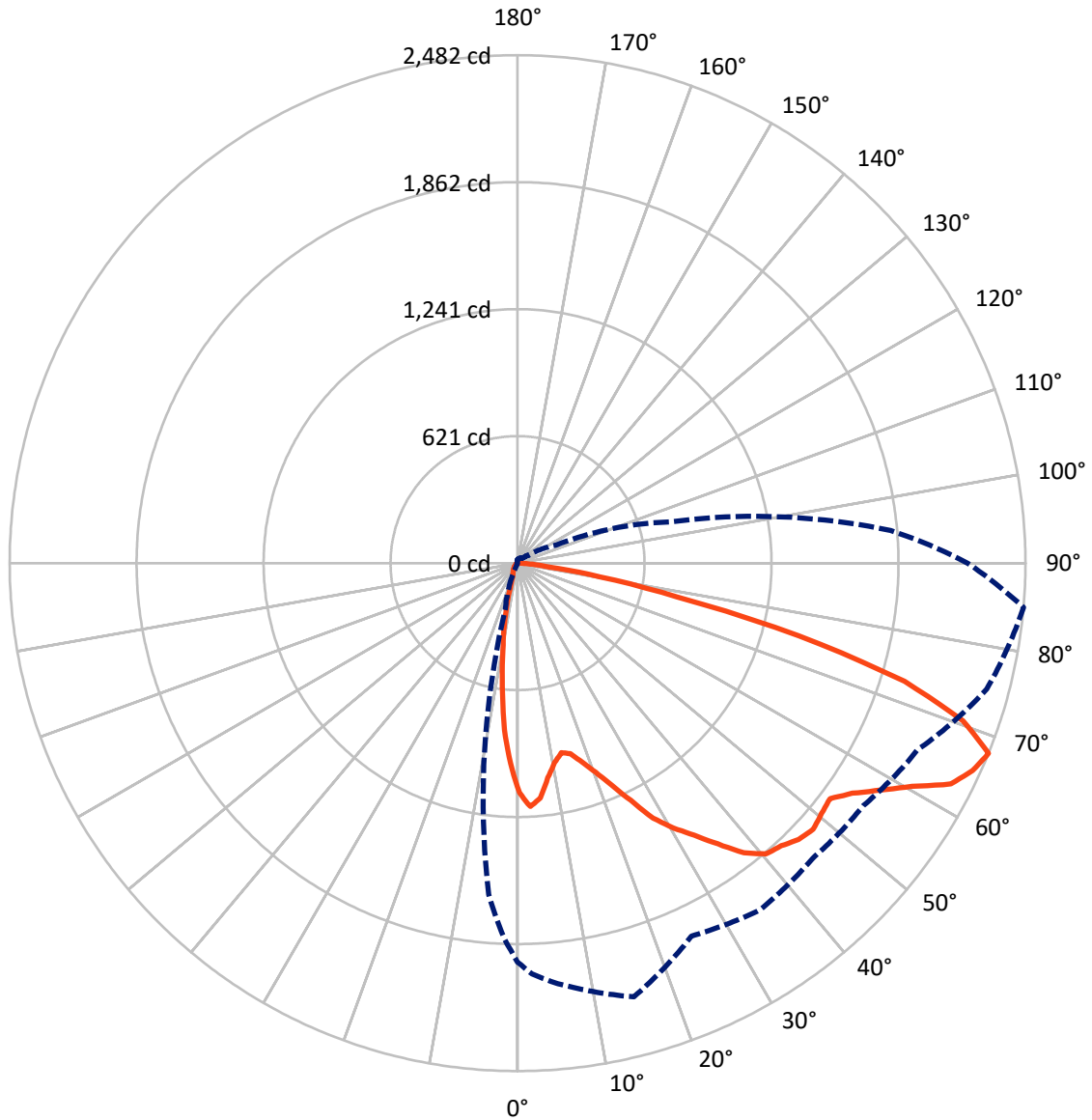
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 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	518.7	0.0	518.7
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2468.4	0.0	2468.4
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	2987.1	0.0	2987.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	2.9
10°-20°	167.3	5.6
20°-30°	231.5	7.8
30°-40°	327.2	11.0
40°-50°	445.5	14.9
50°-60°	590.1	19.8
60°-70°	685.1	22.9
70°-80°	388.0	13.0
80°-90°	67.0	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°	2987.1	100.0
0°-180°	2987.1	100.0



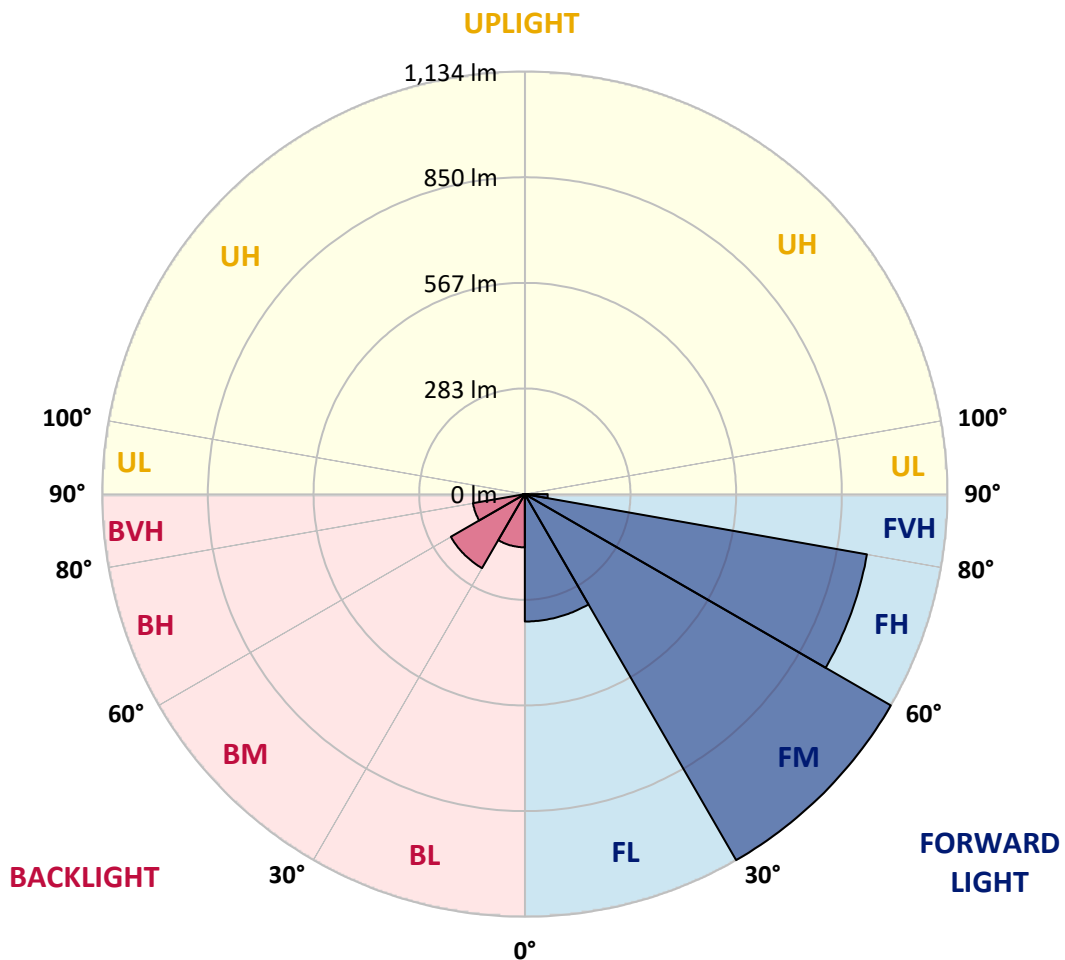
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.6	11.4			
FM (30°-60°)	1133.6	38.0			
FH (60°-80°)	931.8	31.2			G1/1800
FVH (80°-90°)	61.4	2.1			G1/100
BL (0°-30°)	142.6	4.8	B1/500		
BM (30°-60°)	229.2	7.7	B1/1000		
BH (60°-80°)	141.3	4.7	B1/500		G1/500
BVH (80°-90°)	5.7	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°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1167.0	1191.7	1192.5	1203.7	1214.9	1214.9	1241.2	1234.8	1211.7	1207.7	1190.9
5°	1175.8	1184.5	1190.9	1247.6	1295.4	1290.6	1305.0	1295.4	1250.8	1193.3	1154.2
7.5°	1100.0	1109.6	1135.1	1231.6	1296.2	1317.8	1344.9	1285.1	1238.0	1134.3	1059.3
10°	999.5	1017.8	1064.9	1175.0	1254.7	1323.3	1323.3	1275.5	1184.5	1083.2	991.5
12.5°	943.6	980.3	1005.9	1117.5	1221.2	1268.3	1266.7	1241.2	1182.2	1054.5	950.8
15°	953.2	963.6	1017.8	1104.8	1173.4	1171.0	1199.7	1191.7	1150.2	1080.1	966.0
17.5°	997.1	1013.0	1060.1	1104.8	1137.5	1127.9	1127.1	1165.4	1167.8	1123.1	1022.6
20°	1068.9	1115.9	1138.3	1151.8	1112.0	1071.3	1066.5	1119.9	1161.4	1178.2	1090.4
22.5°	1183.7	1214.9	1260.3	1190.9	1087.2	1036.2	1026.6	1085.6	1169.4	1243.6	1178.2
25°	1296.2	1320.2	1364.0	1274.7	1115.1	1029.0	1012.2	1063.3	1199.7	1334.5	1284.3
27.5°	1415.1	1435.8	1440.6	1336.1	1130.3	1014.6	994.7	1063.3	1225.2	1382.4	1411.1
30°	1487.7	1512.4	1517.2	1390.3	1155.0	1026.6	1017.0	1068.1	1242.8	1423.1	1502.0
32.5°	1569.0	1575.4	1571.4	1399.9	1182.2	1061.7	1021.8	1100.0	1262.7	1471.7	1585.0
35°	1666.3	1677.5	1636.8	1443.8	1242.8	1084.0	1069.7	1139.1	1297.0	1494.0	1685.5
37.5°	1740.5	1775.6	1683.9	1460.5	1254.7	1131.1	1133.5	1220.4	1320.9	1521.2	1796.4
40°	1880.1	1821.1	1763.7	1518.0	1300.2	1210.9	1198.1	1304.2	1401.5	1538.7	1869.0
42.5°	1956.7	1925.6	1794.8	1523.6	1370.4	1320.9	1324.1	1399.1	1443.8	1588.2	1888.9
45°	1975.8	1943.1	1837.0	1527.5	1439.8	1451.0	1506.0	1520.4	1506.0	1620.9	1926.4
47.5°	2024.5	1953.5	1832.3	1581.0	1552.3	1595.3	1665.5	1696.7	1590.6	1608.9	1943.9
50°	2014.9	1974.2	1821.9	1603.3	1689.5	1803.5	1850.6	1837.8	1684.7	1584.2	1924.8
52.5°	1975.0	1931.2	1853.8	1663.9	1817.9	1955.9	2021.3	1989.4	1768.4	1640.0	1912.0
55°	2033.3	1999.8	1895.3	1746.1	1914.4	2089.9	2136.2	2112.2	1871.3	1691.9	1984.6
57.5°	2096.3	2089.1	2007.7	1842.6	2028.5	2227.9	2227.9	2198.4	1960.7	1766.8	2092.3
60°	2187.2	2203.2	2090.7	1906.4	2067.6	2219.9	2335.6	2301.3	2050.8	1898.5	2214.3
62.5°	2157.7	2208.8	2197.6	2043.6	2112.2	2259.0	2322.0	2347.6	2162.5	2058.8	2377.1
65°	2062.8	2117.0	2196.8	2133.8	2078.7	2164.1	2196.0	2273.4	2218.3	2209.6	2444.1
67.5°	1949.5	2008.5	2058.0	2194.4	2010.9	2067.6	2039.7	2064.4	2157.7	2374.7	2482.4
70°	1702.2	1758.9	1837.0	2059.6	1831.5	1780.4	1773.2	1761.3	1906.4	2315.6	2308.5
72.5°	1399.9	1426.2	1555.5	1674.3	1355.2	1345.7	1356.8	1343.3	1511.6	2096.3	1977.4
75°	1048.1	1074.5	1147.9	1285.9	922.9	867.9	931.7	994.7	1154.2	1627.3	1420.7
77.5°	788.1	821.6	867.9	962.0	677.2	591.1	599.9	659.7	834.4	1303.4	796.1
80°	511.3	507.3	596.7	662.1	509.7	525.7	503.3	547.2	604.6	697.2	406.8
82.5°	295.1	299.1	336.6	379.7	355.0	406.0	292.7	489.0	431.5	284.0	151.6
85°	165.9	173.1	207.4	263.2	222.6	149.2	122.0	242.5	271.2	116.5	73.4
87.5°	16.8	14.4	27.9	99.7	60.6	24.7	36.7	58.2	65.4	43.9	21.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1167.0	1167.0	1147.1	1113.6	1100.0	1076.1	1043.4	1053.7	1042.6	1001.9	991.5
5°	1119.1	1080.8	1039.4	988.3	958.8	898.2	879.0	844.7	850.3	816.0	817.6
7.5°	1019.4	989.1	918.9	851.9	793.7	741.0	666.9	638.9	611.8	598.3	614.2
10°	961.2	904.6	808.8	721.1	643.7	596.7	547.2	508.9	473.8	447.5	441.9
12.5°	918.9	868.7	753.0	646.1	585.5	547.2	501.7	449.1	414.8	369.3	355.8
15°	906.2	844.7	722.7	616.6	557.6	494.6	442.7	390.9	346.2	298.3	281.6
17.5°	950.0	879.0	721.9	592.7	509.7	441.9	370.1	311.9	266.4	222.6	212.2
20°	1024.2	915.7	745.0	578.3	464.2	373.3	291.9	233.7	182.7	154.0	146.8
22.5°	1108.8	977.9	747.4	540.0	418.8	304.7	213.0	154.0	125.2	111.7	107.7
25°	1212.5	1077.7	776.1	508.9	365.3	231.3	151.6	118.1	101.3	93.3	91.7
27.5°	1297.8	1147.1	807.2	476.2	312.7	171.5	118.9	96.5	87.7	79.8	79.0
30°	1386.4	1226.8	816.0	456.3	267.2	141.2	102.1	85.4	75.8	71.8	71.0
32.5°	1463.7	1313.8	843.9	423.6	224.1	124.4	92.5	76.6	70.2	63.8	63.0
35°	1563.4	1364.0	857.5	406.0	208.2	112.5	84.6	70.2	60.6	56.6	55.0
37.5°	1670.3	1412.7	866.3	392.5	194.6	105.3	79.8	66.2	57.4	51.8	50.3
40°	1770.0	1481.3	853.5	375.7	184.3	96.5	76.6	61.4	53.4	47.9	45.5
42.5°	1846.6	1548.3	849.5	359.8	173.1	93.3	72.6	59.0	50.3	43.9	43.1
45°	1889.7	1593.8	821.6	347.0	164.3	94.9	71.0	55.8	47.9	42.3	39.1
47.5°	1879.3	1628.9	828.8	343.0	152.4	88.5	70.2	53.4	43.9	39.1	36.7
50°	1936.8	1699.8	816.8	330.2	143.6	79.8	76.6	53.4	43.1	37.5	35.1
52.5°	1946.3	1764.5	842.3	307.1	130.0	73.4	75.8	52.6	41.5	35.9	32.7
55°	2026.1	1839.4	891.8	294.3	118.9	63.8	69.4	51.1	37.5	32.7	31.1
57.5°	2134.6	1995.0	923.7	282.4	103.7	55.8	58.2	50.3	34.3	30.3	27.9
60°	2239.1	2057.2	926.1	260.8	89.3	50.3	45.5	50.3	31.9	27.1	24.7
62.5°	2317.2	2057.2	910.1	242.5	78.2	44.7	39.9	47.9	28.7	23.9	22.3
65°	2275.0	2002.2	868.7	227.3	71.0	39.1	34.3	36.7	25.5	20.7	19.1
67.5°	2199.2	1830.7	776.9	209.0	70.2	34.3	29.5	27.1	22.3	18.3	16.8
70°	2077.9	1599.3	646.9	188.3	68.6	31.1	26.3	23.1	19.9	16.0	14.4
72.5°	1674.3	1320.9	531.3	176.3	67.0	27.1	22.3	19.9	16.8	13.6	12.0
75°	1159.8	843.9	409.2	150.8	65.4	24.7	20.7	17.5	14.4	11.2	10.4
77.5°	695.6	564.0	264.0	113.3	43.1	19.9	17.5	13.6	12.0	9.6	8.8
80°	325.5	266.4	106.9	43.9	20.7	14.4	12.0	10.4	9.6	8.0	7.2
82.5°	127.6	112.5	51.8	25.5	16.8	11.2	9.6	8.8	8.0	6.4	5.6
85°	68.6	60.6	24.7	17.5	12.0	8.0	8.0	7.2	6.4	5.6	4.8
87.5°	15.2	11.2	10.4	10.4	8.8	6.4	6.4	5.6	4.8	4.0	3.2
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	985.9	997.9	978.7	990.7	974.0	986.7	988.3	976.4	979.5	995.5	1002.7
5°	840.0	832.0	814.4	808.8	809.6	799.3	803.3	808.8	817.6	822.4	836.8
7.5°	605.4	623.8	623.0	636.5	637.3	635.7	624.6	600.6	608.6	602.2	610.2
10°	433.1	441.1	456.3	465.0	481.0	472.2	446.7	437.1	432.3	431.5	439.5
12.5°	346.2	327.0	325.5	328.6	336.6	326.2	313.5	302.3	307.9	319.1	327.8
15°	268.0	252.1	231.3	228.1	229.7	224.9	211.4	197.0	201.0	212.2	218.6
17.5°	205.8	187.5	173.1	163.5	160.3	143.6	123.6	111.7	108.5	107.7	113.3
20°	138.8	135.6	133.2	121.2	121.2	97.3	80.6	71.8	71.8	73.4	74.2
22.5°	103.7	99.7	100.5	98.1	91.7	72.6	63.8	61.4	61.4	63.0	63.0
25°	90.1	84.6	83.0	82.2	75.8	62.2	55.8	53.4	53.4	55.0	55.0
27.5°	76.6	75.0	72.6	69.4	63.8	53.4	49.5	47.1	47.9	48.7	47.9
30°	70.2	66.2	63.0	63.0	56.6	47.9	44.7	43.1	41.5	43.1	43.9
32.5°	62.2	59.8	58.2	55.8	48.7	42.3	39.1	37.5	36.7	36.7	37.5
35°	53.4	53.4	51.8	48.7	42.3	38.3	34.3	32.7	31.9	32.7	32.7
37.5°	47.9	45.5	46.3	43.1	37.5	33.5	29.5	27.9	27.9	27.1	27.9
40°	44.7	40.7	38.3	36.7	33.5	28.7	25.5	23.9	23.1	23.1	23.1
42.5°	39.9	36.7	31.9	31.1	30.3	24.7	20.7	19.9	19.1	18.3	18.3
45°	37.5	32.7	28.7	24.7	24.7	20.7	17.5	16.0	15.2	14.4	15.2
47.5°	34.3	29.5	24.7	20.7	19.9	16.8	13.6	12.0	11.2	11.2	11.2
50°	32.7	26.3	21.5	17.5	15.2	13.6	10.4	8.8	8.0	8.0	8.0
52.5°	30.3	24.7	19.1	15.2	12.0	10.4	8.0	6.4	5.6	5.6	5.6
55°	27.1	22.3	16.8	12.8	10.4	8.0	5.6	4.0	3.2	3.2	3.2
57.5°	25.5	19.9	14.4	11.2	8.0	5.6	3.2	2.4	2.4	1.6	2.4
60°	23.1	17.5	12.0	8.8	6.4	4.0	2.4	0.8	0.8	0.8	0.8
62.5°	19.9	15.2	10.4	7.2	4.8	2.4	0.8	0.0	0.0	0.0	0.0
65°	16.8	12.0	8.0	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	14.4	10.4	6.4	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.8	8.8	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.4	7.2	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.8	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.2	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.8	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°	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1013.0	1008.3	1032.2	1071.3	1091.2	1130.3	1139.9	1164.6	1158.2	1167.0
5°	838.4	847.9	883.0	940.5	961.2	1017.8	1071.3	1124.7	1159.0	1175.8
7.5°	622.2	654.1	697.2	749.8	803.3	877.4	968.4	1030.6	1064.1	1100.0
10°	463.4	497.7	547.2	599.1	686.0	769.0	859.9	937.3	966.0	999.5
12.5°	364.5	418.0	475.4	531.3	583.1	662.1	774.5	887.0	918.1	943.6
15°	253.7	319.1	401.2	473.8	546.4	615.0	731.5	867.9	910.1	953.2
17.5°	140.4	192.2	286.4	388.5	495.4	600.6	745.8	903.0	966.8	997.1
20°	81.4	102.1	169.1	290.4	431.5	569.5	753.0	969.2	1053.7	1068.9
22.5°	67.0	74.2	95.7	181.9	353.4	549.6	789.7	1061.7	1147.9	1183.7
25°	57.4	63.0	74.2	109.3	267.2	507.3	812.8	1177.4	1257.1	1296.2
27.5°	51.1	56.6	65.4	80.6	181.9	449.1	851.1	1281.9	1361.6	1415.1
30°	44.7	49.5	58.2	68.6	126.0	383.7	883.8	1358.4	1470.9	1487.7
32.5°	39.9	43.9	50.3	59.0	93.3	291.2	910.1	1437.4	1532.3	1569.0
35°	34.3	39.1	43.1	50.3	71.0	219.4	894.2	1498.8	1622.5	1666.3
37.5°	30.3	33.5	37.5	42.3	59.8	171.5	861.5	1572.2	1699.8	1740.5
40°	25.5	27.9	32.7	37.5	54.2	132.4	824.0	1660.8	1808.3	1880.1
42.5°	21.5	23.9	27.1	35.1	44.7	98.1	748.2	1729.4	1896.1	1956.7
45°	16.8	19.9	24.7	35.1	35.9	72.6	670.0	1780.4	1945.5	1975.8
47.5°	12.8	16.0	23.9	30.3	28.7	50.3	577.5	1838.6	1996.6	2024.5
50°	9.6	12.8	27.1	26.3	23.9	38.3	519.3	1879.3	1999.8	2014.9
52.5°	6.4	9.6	22.3	19.9	19.9	33.5	503.3	1877.7	2007.7	1975.0
55°	4.8	7.2	12.8	14.4	17.5	29.5	489.0	1937.6	2010.1	2033.3
57.5°	3.2	5.6	8.8	11.2	15.2	25.5	459.5	2009.3	2084.3	2096.3
60°	1.6	4.0	6.4	8.8	12.8	22.3	418.0	2062.0	2174.5	2187.2
62.5°	0.8	2.4	4.8	7.2	10.4	17.5	374.9	1978.2	2135.4	2157.7
65°	0.0	1.6	3.2	4.8	6.4	12.8	304.7	1786.0	1980.6	2062.8
67.5°	0.0	0.0	1.6	3.2	4.0	9.6	229.7	1624.9	1837.8	1949.5
70°	0.0	0.0	0.8	0.8	2.4	7.2	146.8	1345.7	1640.8	1702.2
72.5°	0.0	0.0	0.0	0.0	0.8	4.8	85.4	999.5	1285.9	1399.9
75°	0.0	0.0	0.0	0.0	0.0	4.0	43.1	642.9	895.0	1048.1
77.5°	0.0	0.0	0.0	0.0	0.0	3.2	23.1	414.8	659.7	788.1
80°	0.0	0.0	0.0	0.0	0.0	0.8	13.6	240.9	422.0	511.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	118.1	252.1	295.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	63.0	126.0	165.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.8	16.8
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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