

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: P677318

Luminaire Tested: **CCW-SA-1D-827-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677318  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-827-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

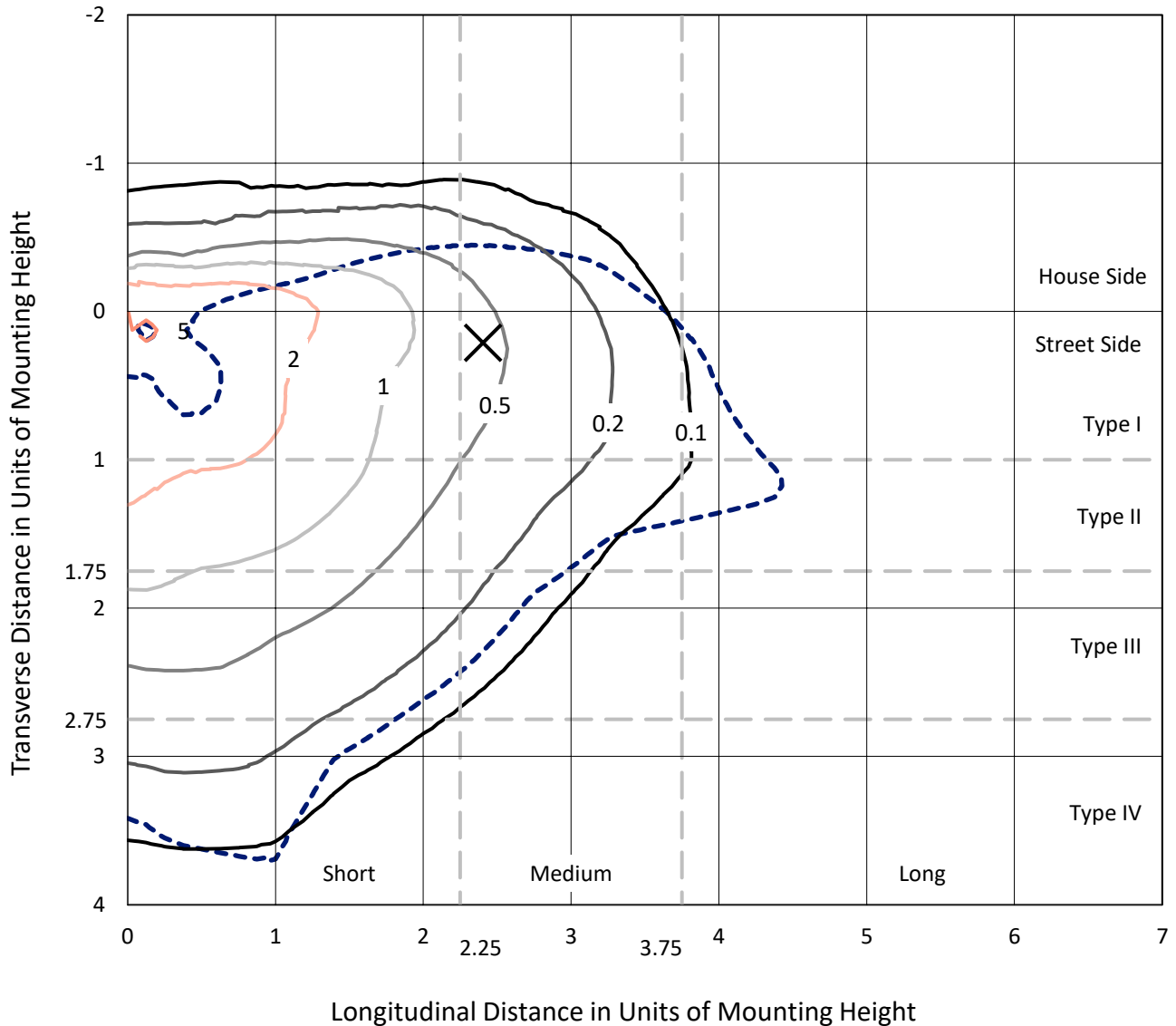
Lumens per Lamp: N/A  
Luminaire Lumens: 2974.4 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

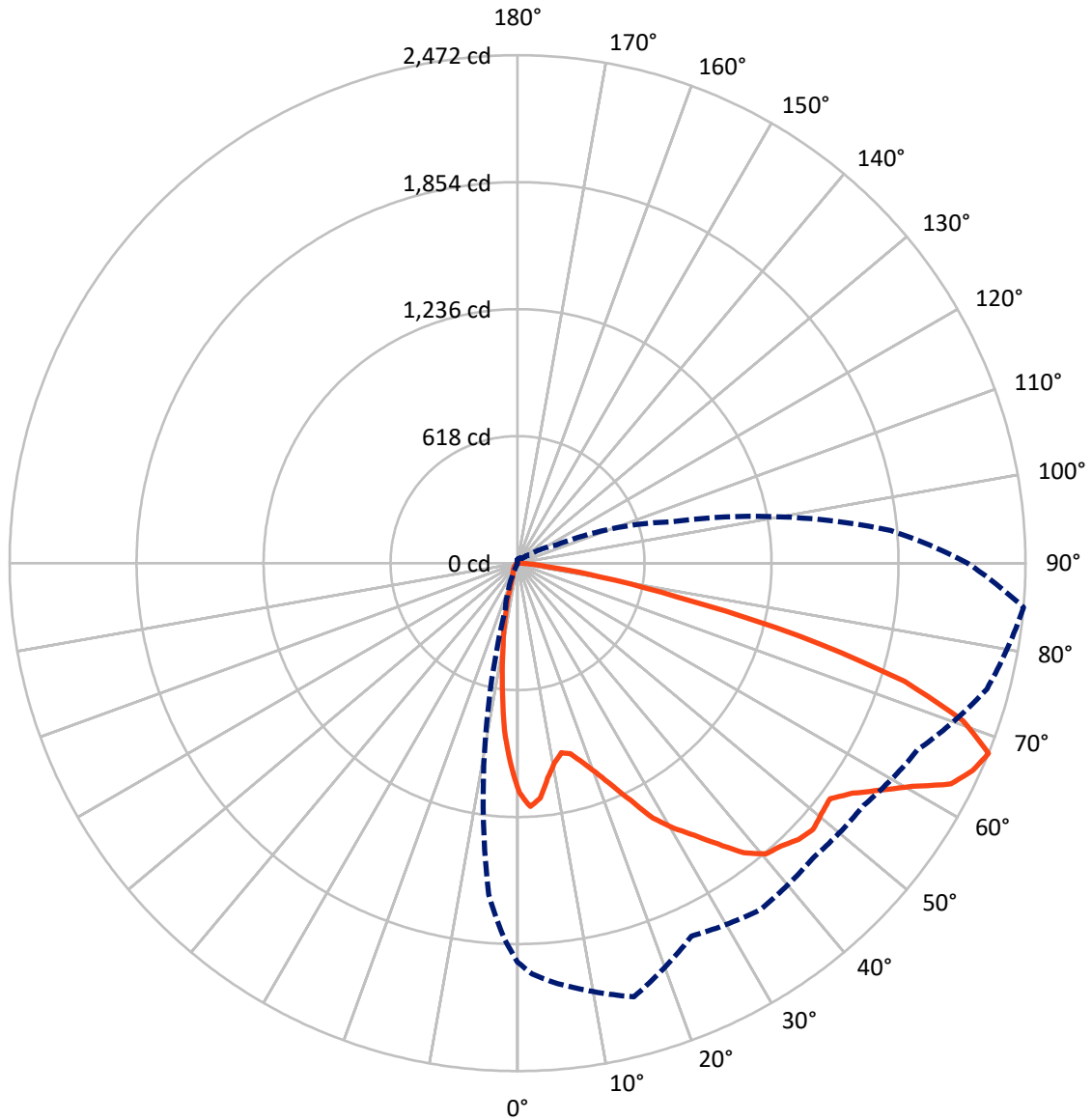
× Max cd  
 - - - 1/2 Max cd



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	516.5	0.0	516.5
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	2457.9	0.0	2457.9
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	2974.4	0.0	2974.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	2.9
10°-20°	166.6	5.6
20°-30°	230.6	7.8
30°-40°	325.8	11.0
40°-50°	443.6	14.9
50°-60°	587.6	19.8
60°-70°	682.2	22.9
70°-80°	386.3	13.0
80°-90°	66.8	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°	2974.4	100.0
0°-180°	2974.4	100.0



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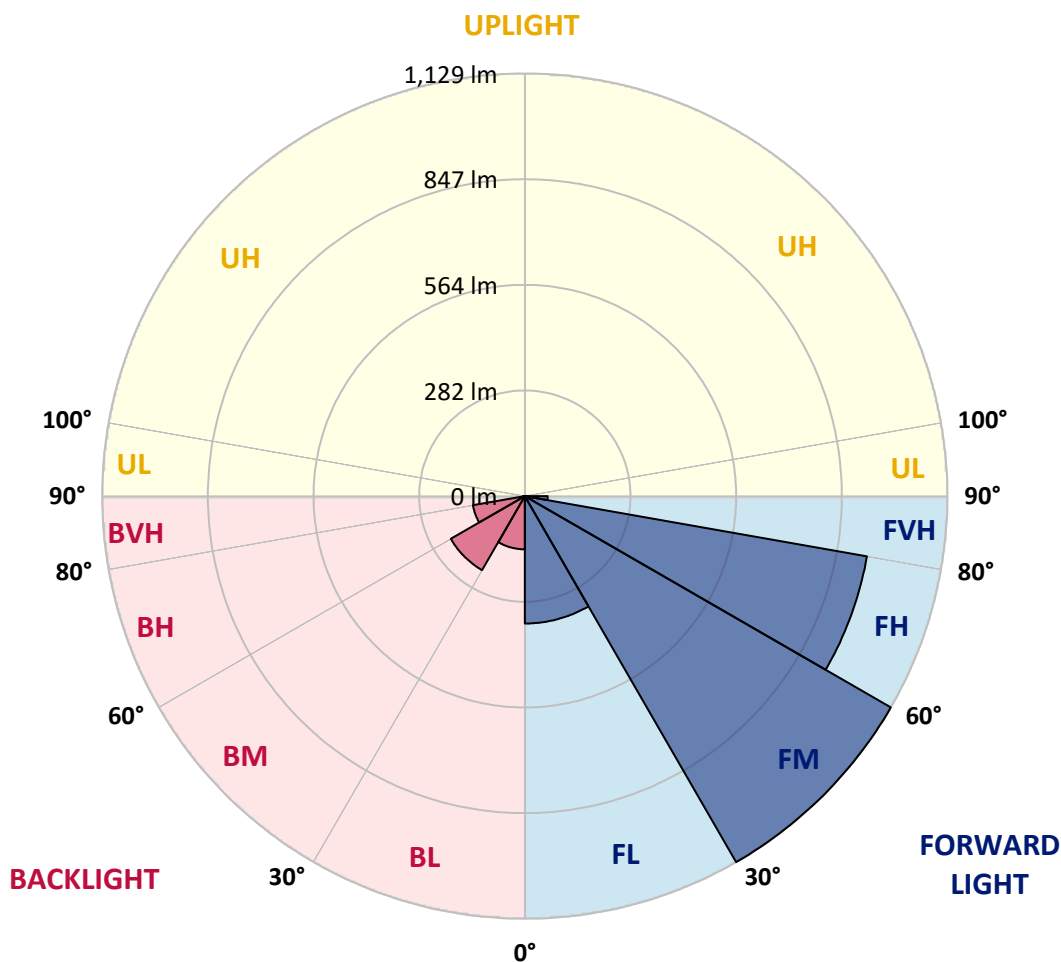
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.1	11.4			
FM (30°-60°)	1128.8	38.0			
FH (60°-80°)	927.9	31.2			G1/1800
FVH (80°-90°)	61.1	2.1			G1/100
BL (0°-30°)	142.0	4.8	B1/500		
BM (30°-60°)	228.2	7.7	B1/1000		
BH (60°-80°)	140.7	4.7	B1/500		G1/500
BVH (80°-90°)	5.6	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°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1162.0	1186.7	1187.5	1198.6	1209.7	1209.7	1235.9	1229.6	1206.5	1202.5	1185.9
5°	1170.8	1179.5	1185.9	1242.3	1289.9	1285.2	1299.5	1289.9	1245.4	1188.3	1149.3
7.5°	1095.3	1104.9	1130.3	1226.4	1290.7	1312.2	1339.2	1279.6	1232.7	1129.5	1054.8
10°	995.2	1013.5	1060.4	1170.0	1249.4	1317.7	1317.7	1270.1	1179.5	1078.6	987.3
12.5°	939.6	976.2	1001.6	1112.8	1216.1	1262.9	1261.3	1235.9	1177.1	1050.0	946.8
15°	949.2	959.5	1013.5	1100.1	1168.4	1166.0	1194.6	1186.7	1145.4	1075.5	961.9
17.5°	992.9	1008.7	1055.6	1100.1	1132.7	1123.1	1122.3	1160.5	1162.8	1118.4	1018.3
20°	1064.3	1111.2	1133.4	1146.9	1107.2	1066.7	1062.0	1115.2	1156.5	1173.2	1085.8
22.5°	1178.7	1209.7	1255.0	1185.9	1082.6	1031.8	1022.2	1081.0	1164.4	1238.3	1173.2
25°	1290.7	1314.5	1358.2	1269.3	1110.4	1024.6	1007.9	1058.8	1194.6	1328.8	1278.8
27.5°	1409.1	1429.7	1434.5	1330.4	1125.5	1010.3	990.5	1058.8	1220.0	1376.5	1405.1
30°	1481.3	1506.0	1510.7	1384.4	1150.1	1022.2	1012.7	1063.5	1237.5	1417.0	1495.6
32.5°	1562.4	1568.7	1564.7	1394.0	1177.1	1057.2	1017.5	1095.3	1257.4	1465.5	1578.2
35°	1659.3	1670.4	1629.9	1437.7	1237.5	1079.4	1065.1	1134.2	1291.5	1487.7	1678.3
37.5°	1733.1	1768.1	1676.7	1454.3	1249.4	1126.3	1128.7	1215.3	1315.3	1514.7	1788.7
40°	1872.1	1813.4	1756.2	1511.5	1294.7	1205.7	1193.0	1298.7	1395.6	1532.2	1861.0
42.5°	1948.4	1917.4	1787.1	1517.1	1364.6	1315.3	1318.5	1393.2	1437.7	1581.4	1880.9
45°	1967.4	1934.9	1829.2	1521.1	1433.7	1444.8	1499.6	1513.9	1499.6	1614.0	1918.2
47.5°	2015.9	1945.2	1824.5	1574.3	1545.7	1588.6	1658.5	1689.4	1583.8	1602.1	1935.7
50°	2006.4	1965.9	1814.1	1596.5	1682.3	1795.9	1842.7	1830.0	1677.5	1577.5	1916.6
52.5°	1966.7	1923.0	1845.9	1656.9	1810.2	1947.6	2012.7	1980.9	1760.9	1633.1	1903.9
55°	2024.6	1991.3	1887.2	1738.7	1906.3	2081.0	2127.1	2103.3	1863.4	1684.7	1976.2
57.5°	2087.4	2080.2	1999.2	1834.8	2019.9	2218.4	2218.4	2189.1	1952.4	1759.3	2083.4
60°	2177.9	2193.8	2081.8	1898.3	2058.8	2210.5	2325.7	2291.5	2042.1	1890.4	2204.9
62.5°	2148.5	2199.4	2188.3	2035.0	2103.3	2249.4	2312.2	2337.6	2153.3	2050.1	2367.0
65°	2054.0	2108.0	2187.5	2124.7	2069.9	2154.9	2186.7	2263.7	2208.9	2200.2	2433.7
67.5°	1941.2	2000.0	2049.3	2185.1	2002.4	2058.8	2031.0	2055.6	2148.5	2364.6	2471.8
70°	1695.0	1751.4	1829.2	2050.8	1823.7	1772.8	1765.7	1753.8	1898.3	2305.8	2298.7
72.5°	1394.0	1420.2	1548.9	1667.2	1349.5	1340.0	1351.1	1337.6	1505.2	2087.4	1969.0
75°	1043.7	1069.9	1143.0	1280.4	919.0	864.2	927.7	990.5	1149.3	1620.3	1414.6
77.5°	784.8	818.1	864.2	957.9	674.3	588.6	597.3	656.9	830.8	1297.9	792.7
80°	509.1	505.2	594.1	659.3	507.5	523.4	501.2	544.9	602.1	694.2	405.1
82.5°	293.9	297.9	335.2	378.1	353.5	404.3	291.5	486.9	429.7	282.8	150.9
85°	165.2	172.4	206.5	262.1	221.6	148.5	121.5	241.5	270.1	116.0	73.1
87.5°	16.7	14.3	27.8	99.3	60.4	24.6	36.5	58.0	65.1	43.7	21.4
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°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1162.0	1162.0	1142.2	1108.8	1095.3	1071.5	1038.9	1049.3	1038.1	997.6	987.3
5°	1114.4	1076.3	1035.0	984.1	954.7	894.4	875.3	841.1	846.7	812.6	814.1
7.5°	1015.1	984.9	915.0	848.3	790.3	737.9	664.0	636.2	609.2	595.7	611.6
10°	957.1	900.7	805.4	718.0	641.0	594.1	544.9	506.8	471.8	445.6	440.0
12.5°	915.0	865.0	749.8	643.4	583.0	544.9	499.6	447.2	413.0	367.8	354.3
15°	902.3	841.1	719.6	614.0	555.2	492.5	440.8	389.2	344.7	297.1	280.4
17.5°	946.0	875.3	718.8	590.2	507.5	440.0	368.5	310.6	265.3	221.6	211.3
20°	1019.9	911.8	741.9	575.9	462.3	371.7	290.7	232.7	181.9	153.3	146.1
22.5°	1104.1	973.8	744.2	537.7	417.0	303.4	212.1	153.3	124.7	111.2	107.2
25°	1207.3	1073.1	772.8	506.8	363.8	230.3	150.9	117.6	100.9	92.9	91.3
27.5°	1292.3	1142.2	803.8	474.2	311.4	170.8	118.3	96.1	87.4	79.4	78.6
30°	1380.5	1221.6	812.6	454.3	266.1	140.6	101.7	85.0	75.5	71.5	70.7
32.5°	1457.5	1308.2	840.4	421.8	223.2	123.9	92.1	76.3	69.9	63.5	62.7
35°	1556.8	1358.2	853.9	404.3	207.3	112.0	84.2	69.9	60.4	56.4	54.8
37.5°	1663.2	1406.7	862.6	390.8	193.8	104.8	79.4	65.9	57.2	51.6	50.0
40°	1762.5	1475.0	849.9	374.1	183.5	96.1	76.3	61.2	53.2	47.7	45.3
42.5°	1838.8	1541.7	845.9	358.2	172.4	92.9	72.3	58.8	50.0	43.7	42.9
45°	1881.7	1587.0	818.1	345.5	163.6	94.5	70.7	55.6	47.7	42.1	38.9
47.5°	1871.3	1621.9	825.3	341.5	151.7	88.2	69.9	53.2	43.7	38.9	36.5
50°	1928.5	1692.6	813.3	328.8	143.0	79.4	76.3	53.2	42.9	37.3	34.9
52.5°	1938.1	1757.0	838.8	305.8	129.5	73.1	75.5	52.4	41.3	35.7	32.6
55°	2017.5	1831.6	888.0	293.1	118.3	63.5	69.1	50.8	37.3	32.6	31.0
57.5°	2125.5	1986.5	919.8	281.2	103.3	55.6	58.0	50.0	34.2	30.2	27.8
60°	2229.6	2048.5	922.2	259.7	89.0	50.0	45.3	50.0	31.8	27.0	24.6
62.5°	2307.4	2048.5	906.3	241.5	77.8	44.5	39.7	47.7	28.6	23.8	22.2
65°	2265.3	1993.7	865.0	226.4	70.7	38.9	34.2	36.5	25.4	20.7	19.1
67.5°	2189.8	1822.9	773.6	208.1	69.9	34.2	29.4	27.0	22.2	18.3	16.7
70°	2069.1	1592.5	644.2	187.5	68.3	31.0	26.2	23.0	19.9	15.9	14.3
72.5°	1667.2	1315.3	529.0	175.5	66.7	27.0	22.2	19.9	16.7	13.5	11.9
75°	1154.9	840.4	407.5	150.1	65.1	24.6	20.7	17.5	14.3	11.1	10.3
77.5°	692.6	561.6	262.9	112.8	42.9	19.9	17.5	13.5	11.9	9.5	8.7
80°	324.1	265.3	106.4	43.7	20.7	14.3	11.9	10.3	9.5	7.9	7.1
82.5°	127.1	112.0	51.6	25.4	16.7	11.1	9.5	8.7	7.9	6.4	5.6
85°	68.3	60.4	24.6	17.5	11.9	7.9	7.9	7.1	6.4	5.6	4.8
87.5°	15.1	11.1	10.3	10.3	8.7	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°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	981.7	993.7	974.6	986.5	969.8	982.5	984.1	972.2	975.4	991.3	998.4
5°	836.4	828.4	811.0	805.4	806.2	795.9	799.8	805.4	814.1	818.9	833.2
7.5°	602.9	621.1	620.3	633.8	634.6	633.0	621.9	598.1	606.0	599.7	607.6
10°	431.3	439.2	454.3	463.1	479.0	470.2	444.8	435.3	430.5	429.7	437.7
12.5°	344.7	325.7	324.1	327.2	335.2	324.9	312.2	301.0	306.6	317.7	326.5
15°	266.9	251.0	230.3	227.2	228.8	224.0	210.5	196.2	200.2	211.3	217.6
17.5°	204.9	186.7	172.4	162.8	159.7	143.0	123.1	111.2	108.0	107.2	112.8
20°	138.2	135.0	132.6	120.7	120.7	96.9	80.2	71.5	71.5	73.1	73.9
22.5°	103.3	99.3	100.1	97.7	91.3	72.3	63.5	61.2	61.2	62.7	62.7
25°	89.8	84.2	82.6	81.8	75.5	62.0	55.6	53.2	53.2	54.8	54.8
27.5°	76.3	74.7	72.3	69.1	63.5	53.2	49.2	46.9	47.7	48.5	47.7
30°	69.9	65.9	62.7	62.7	56.4	47.7	44.5	42.9	41.3	42.9	43.7
32.5°	62.0	59.6	58.0	55.6	48.5	42.1	38.9	37.3	36.5	36.5	37.3
35°	53.2	53.2	51.6	48.5	42.1	38.1	34.2	32.6	31.8	32.6	32.6
37.5°	47.7	45.3	46.1	42.9	37.3	33.4	29.4	27.8	27.8	27.0	27.8
40°	44.5	40.5	38.1	36.5	33.4	28.6	25.4	23.8	23.0	23.0	23.0
42.5°	39.7	36.5	31.8	31.0	30.2	24.6	20.7	19.9	19.1	18.3	18.3
45°	37.3	32.6	28.6	24.6	24.6	20.7	17.5	15.9	15.1	14.3	15.1
47.5°	34.2	29.4	24.6	20.7	19.9	16.7	13.5	11.9	11.1	11.1	11.1
50°	32.6	26.2	21.4	17.5	15.1	13.5	10.3	8.7	7.9	7.9	7.9
52.5°	30.2	24.6	19.1	15.1	11.9	10.3	7.9	6.4	5.6	5.6	5.6
55°	27.0	22.2	16.7	12.7	10.3	7.9	5.6	4.0	3.2	3.2	3.2
57.5°	25.4	19.9	14.3	11.1	7.9	5.6	3.2	2.4	2.4	1.6	2.4
60°	23.0	17.5	11.9	8.7	6.4	4.0	2.4	0.8	0.8	0.8	0.8
62.5°	19.9	15.1	10.3	7.1	4.8	2.4	0.8	0.0	0.0	0.0	0.0
65°	16.7	11.9	7.9	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	14.3	10.3	6.4	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.7	8.7	4.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.3	7.1	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.7	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.1	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°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1008.7	1004.0	1027.8	1066.7	1086.6	1125.5	1135.0	1159.7	1153.3	1162.0
5°	834.8	844.3	879.3	936.5	957.1	1013.5	1066.7	1119.9	1154.1	1170.8
7.5°	619.5	651.3	694.2	746.6	799.8	873.7	964.3	1026.2	1059.6	1095.3
10°	461.5	495.6	544.9	596.5	683.1	765.7	856.2	933.3	961.9	995.2
12.5°	363.0	416.2	473.4	529.0	580.6	659.3	771.3	883.2	914.2	939.6
15°	252.6	317.7	399.5	471.8	544.1	612.4	728.4	864.2	906.3	949.2
17.5°	139.8	191.4	285.1	386.8	493.3	598.1	742.7	899.1	962.7	992.9
20°	81.0	101.7	168.4	289.1	429.7	567.1	749.8	965.1	1049.3	1064.3
22.5°	66.7	73.9	95.3	181.1	351.9	547.3	786.3	1057.2	1143.0	1178.7
25°	57.2	62.7	73.9	108.8	266.1	505.2	809.4	1172.4	1251.8	1290.7
27.5°	50.8	56.4	65.1	80.2	181.1	447.2	847.5	1276.4	1355.8	1409.1
30°	44.5	49.2	58.0	68.3	125.5	382.1	880.1	1352.7	1464.7	1481.3
32.5°	39.7	43.7	50.0	58.8	92.9	289.9	906.3	1431.3	1525.8	1562.4
35°	34.2	38.9	42.9	50.0	70.7	218.4	890.4	1492.5	1615.6	1659.3
37.5°	30.2	33.4	37.3	42.1	59.6	170.8	857.8	1565.5	1692.6	1733.1
40°	25.4	27.8	32.6	37.3	54.0	131.9	820.5	1653.7	1800.6	1872.1
42.5°	21.4	23.8	27.0	34.9	44.5	97.7	745.0	1722.0	1888.0	1948.4
45°	16.7	19.9	24.6	34.9	35.7	72.3	667.2	1772.8	1937.3	1967.4
47.5°	12.7	15.9	23.8	30.2	28.6	50.0	575.1	1830.8	1988.1	2015.9
50°	9.5	12.7	27.0	26.2	23.8	38.1	517.1	1871.3	1991.3	2006.4
52.5°	6.4	9.5	22.2	19.9	19.9	33.4	501.2	1869.7	1999.2	1966.7
55°	4.8	7.1	12.7	14.3	17.5	29.4	486.9	1929.3	2001.6	2024.6
57.5°	3.2	5.6	8.7	11.1	15.1	25.4	457.5	2000.8	2075.5	2087.4
60°	1.6	4.0	6.4	8.7	12.7	22.2	416.2	2053.2	2165.2	2177.9
62.5°	0.8	2.4	4.8	7.1	10.3	17.5	373.3	1969.8	2126.3	2148.5
65°	0.0	1.6	3.2	4.8	6.4	12.7	303.4	1778.4	1972.2	2054.0
67.5°	0.0	0.0	1.6	3.2	4.0	9.5	228.8	1618.0	1830.0	1941.2
70°	0.0	0.0	0.8	0.8	2.4	7.1	146.1	1340.0	1633.8	1695.0
72.5°	0.0	0.0	0.0	0.0	0.8	4.8	85.0	995.2	1280.4	1394.0
75°	0.0	0.0	0.0	0.0	0.0	4.0	42.9	640.2	891.2	1043.7
77.5°	0.0	0.0	0.0	0.0	0.0	3.2	23.0	413.0	656.9	784.8
80°	0.0	0.0	0.0	0.0	0.0	0.8	13.5	239.9	420.2	509.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	117.6	251.0	293.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	62.7	125.5	165.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.7	16.7
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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