

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P628353

Luminaire Tested: **IFLD-S-SA2A-827-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628353  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6984.6 lumens	Max Intensity:	2276.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	109.5 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

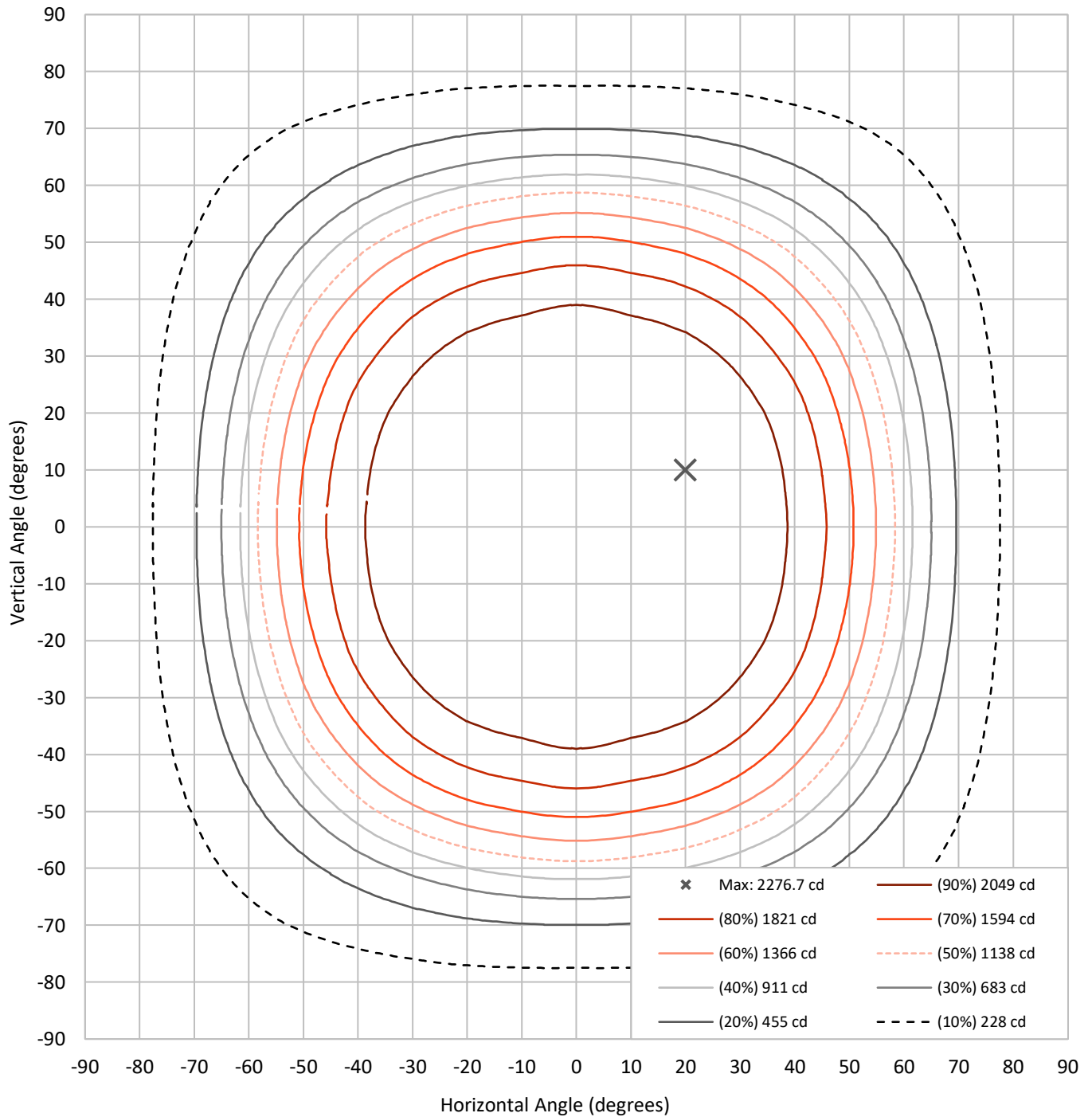
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	4285.9 lumens	Field Lumens:	5138 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 63.8  
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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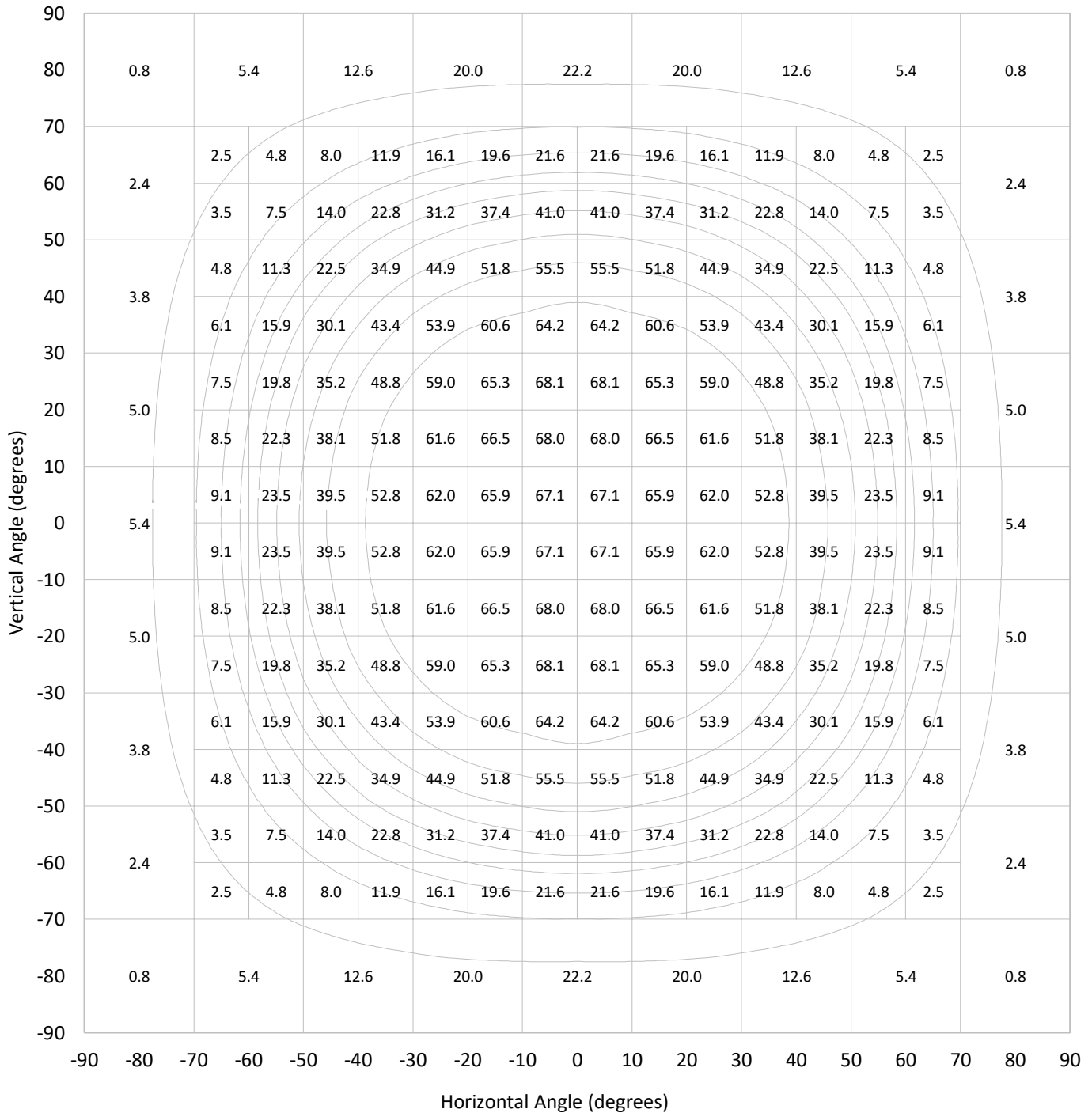
### Iso-Candela Plot





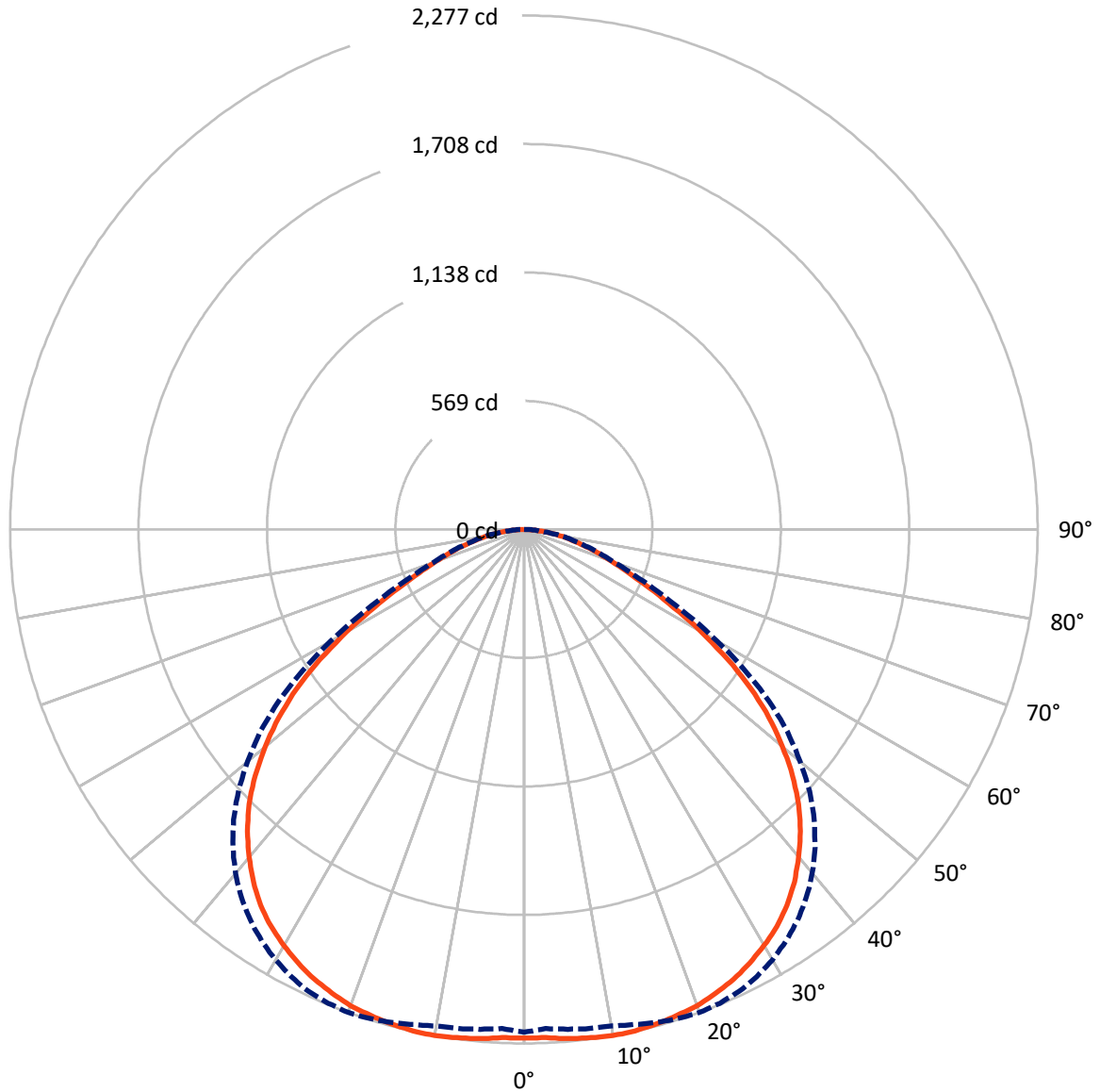
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### Lumen Table



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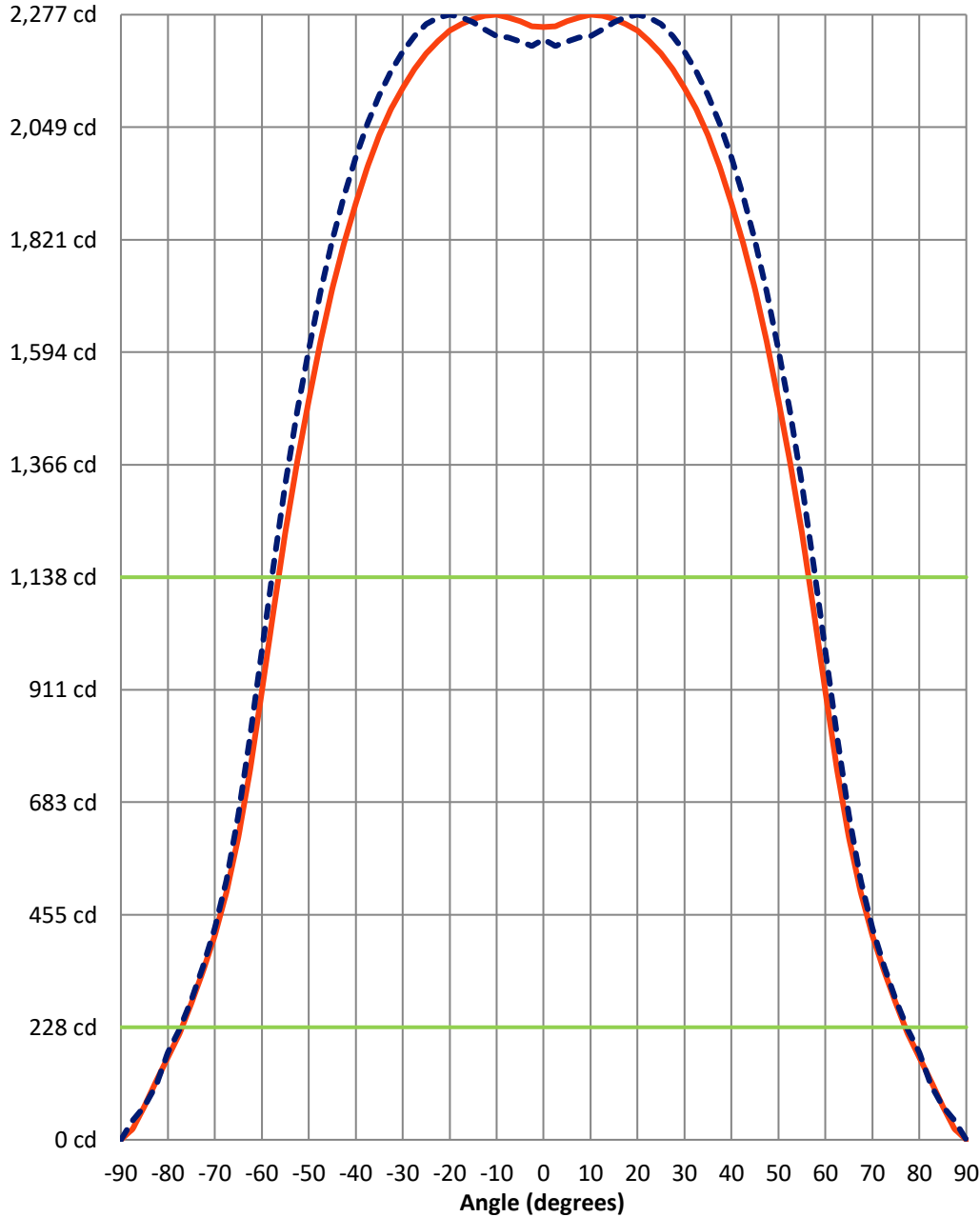
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg      - - - Horizontal Distribution Through 10-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 4285.9  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 5138  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 1846.5  
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	19.8	20.6	21.3	22.0	22.8	23.5	22.8	22.0	22.0	21.3
85°	49.2	50.7	51.4	56.6	61.7	64.7	68.3	67.6	67.6	66.9	66.1
82.5°	98.5	102.9	106.6	111.7	114.6	119.1	122.0	119.8	118.3	115.4	113.2
80°	174.9	176.4	177.1	177.8	174.2	173.4	172.0	169.8	166.8	163.1	159.5
77.5°	222.7	224.1	225.6	224.1	223.4	222.7	220.5	218.3	215.3	212.4	208.0
75°	294.7	294.7	294.7	292.5	291.0	288.8	285.1	281.5	276.3	270.4	263.8
72.5°	371.1	370.4	369.6	365.2	361.6	357.2	352.0	347.6	341.7	335.1	326.3
70°	451.2	452.7	453.4	447.5	443.1	437.3	430.6	422.6	413.7	404.2	391.7
67.5°	561.5	560.0	558.5	550.4	544.6	536.5	526.9	515.2	501.9	487.2	469.6
65°	698.1	700.4	695.9	687.9	676.8	663.6	648.9	632.0	612.2	590.1	565.1
62.5°	863.5	867.2	862.0	851.7	837.8	820.1	799.6	775.3	748.1	717.3	686.4
60°	1051.6	1050.9	1041.3	1027.4	1009.0	987.0	964.2	937.7	906.9	870.8	833.4
57.5°	1224.3	1222.9	1211.1	1197.1	1178.8	1155.2	1131.0	1103.1	1070.7	1032.5	989.2
55°	1379.4	1377.9	1366.2	1351.5	1332.4	1308.8	1286.8	1260.3	1228.7	1188.3	1142.0
52.5°	1516.8	1517.5	1507.3	1491.1	1470.5	1447.7	1426.4	1400.0	1369.8	1329.4	1284.6
50°	1643.2	1642.5	1631.5	1616.8	1597.7	1575.6	1554.3	1527.8	1496.2	1457.3	1413.9
47.5°	1760.8	1759.3	1746.8	1730.7	1710.8	1691.7	1671.9	1648.4	1615.3	1576.3	1533.0
45°	1859.3	1856.3	1843.8	1828.4	1809.3	1792.4	1774.8	1757.1	1721.8	1685.8	1644.7
42.5°	1943.8	1943.1	1930.6	1915.1	1896.0	1881.3	1865.2	1843.1	1813.7	1780.6	1740.2
40°	2024.6	2018.7	2006.3	1991.6	1973.9	1961.4	1945.3	1923.2	1894.5	1862.2	1823.3
37.5°	2084.9	2085.6	2072.4	2056.2	2040.8	2029.0	2014.3	1993.8	1968.8	1937.2	1898.2
35°	2142.2	2138.5	2127.5	2113.5	2099.6	2086.4	2070.9	2053.3	2032.7	2003.3	1966.6
32.5°	2179.7	2184.8	2171.6	2156.9	2148.8	2138.5	2122.4	2104.0	2085.6	2056.2	2023.2
30°	2220.8	2216.4	2206.1	2193.6	2187.8	2181.2	2167.2	2149.6	2128.2	2101.8	2070.9
27.5°	2249.5	2247.3	2234.8	2223.0	2220.1	2214.2	2203.2	2187.8	2166.5	2140.7	2112.1
25°	2262.0	2263.5	2251.7	2245.1	2245.1	2241.4	2232.6	2219.4	2198.1	2174.5	2146.6
22.5°	2267.9	2266.4	2258.3	2256.8	2260.5	2257.6	2253.9	2242.2	2223.0	2203.9	2180.4
20°	2271.5	2261.3	2253.9	2259.8	2264.2	2263.5	2260.5	2253.2	2244.4	2228.2	2207.6
17.5°	2263.5	2256.8	2248.0	2256.8	2266.4	2267.1	2264.2	2259.8	2257.6	2247.3	2228.9
15°	2243.6	2238.5	2239.9	2248.8	2259.8	2263.5	2265.7	2270.8	2267.9	2259.8	2243.6
12.5°	2230.4	2223.8	2230.4	2239.2	2245.1	2247.3	2264.9	2274.5	2274.5	2267.1	2256.8
10°	2226.7	2213.5	2222.3	2230.4	2233.3	2246.6	2261.3	2271.5	2276.7	2270.8	2257.6
7.5°	2219.4	2210.6	2214.2	2217.9	2234.8	2244.4	2252.4	2263.5	2270.8	2270.1	2258.3
5°	2215.7	2204.7	2206.1	2221.6	2233.3	2239.9	2242.9	2252.4	2263.5	2265.7	2256.8
2.5°	2206.1	2201.0	2212.0	2213.5	2222.3	2227.5	2230.4	2239.2	2253.2	2258.3	2254.6
0°	2201.0	2193.6	2186.3	2192.2	2206.9	2217.9	2222.3	2235.5	2251.7	2256.8	2248.8



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.6	19.8	19.1	18.4	19.1	19.1	19.1	18.4	19.1	18.4	18.4
85°	63.9	61.0	58.8	55.9	52.9	50.7	47.8	44.8	44.1	43.4	41.9
82.5°	110.2	106.6	102.9	98.5	94.1	88.9	83.8	77.9	76.4	75.0	72.8
80°	155.1	149.9	144.8	139.6	135.2	130.1	124.2	117.6	113.2	109.5	105.1
77.5°	202.1	194.7	187.4	178.6	173.4	168.3	162.4	155.8	149.2	143.3	136.7
75°	255.7	247.7	240.3	231.5	221.9	212.4	202.8	194.0	184.5	175.6	166.8
72.5°	315.3	303.5	291.8	280.7	269.0	257.2	244.7	233.0	221.2	209.4	197.0
70°	377.7	363.0	348.3	333.6	318.2	302.8	288.1	273.4	258.7	243.2	229.3
67.5°	451.2	434.3	415.2	394.6	371.9	352.0	332.9	315.3	297.6	280.0	262.4
65°	543.1	519.6	493.8	465.9	439.5	413.0	385.1	358.6	338.0	317.5	297.6
62.5°	656.3	623.2	587.2	551.2	518.8	484.3	452.0	417.4	385.1	355.7	331.4
60°	791.5	746.6	702.6	656.3	611.4	564.4	523.2	480.6	440.2	404.2	368.9
57.5°	940.7	888.5	835.6	779.0	718.0	662.9	607.0	551.2	503.4	455.6	415.9
55°	1092.0	1036.9	977.4	913.5	846.6	776.0	700.4	637.9	572.5	516.6	465.2
52.5°	1236.1	1178.8	1117.0	1058.2	978.1	897.3	814.3	732.0	655.5	584.2	521.8
50°	1364.7	1308.8	1249.3	1181.0	1106.7	1020.8	928.2	835.6	745.2	661.4	583.5
47.5°	1482.3	1427.9	1368.4	1300.0	1232.4	1136.9	1043.5	941.4	840.7	744.4	653.3
45°	1592.5	1537.4	1475.7	1410.3	1332.4	1247.1	1150.8	1048.0	939.9	831.9	726.8
42.5°	1692.5	1637.3	1574.9	1507.3	1430.1	1345.6	1252.3	1148.6	1039.9	922.3	806.9
40°	1779.9	1726.3	1666.0	1595.4	1523.4	1434.5	1342.6	1244.2	1131.7	1013.4	886.3
37.5°	1856.3	1806.4	1746.8	1677.0	1600.6	1521.2	1426.4	1327.9	1226.5	1097.9	967.9
35°	1923.9	1877.6	1816.6	1750.5	1675.6	1591.8	1502.9	1406.6	1297.1	1176.6	1050.2
32.5°	1982.7	1935.7	1879.8	1813.7	1741.0	1662.3	1571.2	1474.2	1370.6	1247.8	1110.4
30°	2032.7	1987.1	1934.2	1871.8	1802.0	1724.1	1635.1	1537.4	1431.6	1309.6	1173.6
27.5°	2076.1	2032.7	1981.3	1923.2	1856.3	1781.4	1691.7	1593.2	1485.2	1367.6	1231.7
25°	2113.5	2071.7	2023.9	1968.8	1902.6	1829.1	1744.6	1641.7	1533.7	1415.4	1280.9
22.5°	2147.3	2106.9	2059.2	2005.5	1945.3	1871.8	1786.5	1684.4	1574.9	1458.0	1325.7
20°	2177.5	2140.0	2093.0	2037.9	1977.6	1903.4	1818.9	1721.8	1611.6	1497.0	1366.2
17.5°	2201.7	2168.7	2121.6	2063.6	2003.3	1931.3	1849.0	1760.1	1643.2	1530.0	1400.0
15°	2218.6	2186.3	2143.7	2084.9	2026.1	1954.8	1872.5	1780.6	1671.9	1556.5	1427.9
12.5°	2230.4	2195.9	2156.2	2101.8	2043.0	1972.4	1892.3	1802.0	1696.1	1580.0	1452.1
10°	2233.3	2201.7	2162.0	2113.5	2056.2	1987.9	1909.2	1819.6	1716.0	1598.4	1472.0
7.5°	2234.8	2204.7	2168.7	2122.4	2065.8	1999.6	1921.7	1833.6	1730.7	1613.8	1486.7
5°	2234.1	2205.4	2173.1	2128.2	2071.7	2006.3	1929.8	1843.1	1741.0	1624.1	1497.7
2.5°	2231.9	2206.1	2176.0	2132.7	2078.3	2013.6	1937.9	1854.1	1752.0	1632.9	1506.5
0°	2237.7	2215.7	2177.5	2131.2	2079.7	2013.6	1937.2	1855.6	1753.4	1632.2	1505.8





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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	17.6	17.6	16.9	16.2	15.4	14.0	13.2	11.8	9.6	7.3
85°	39.7	37.5	35.3	33.8	32.3	30.9	28.7	26.5	23.5	19.1	14.7
82.5°	69.8	65.4	61.0	55.9	51.4	47.0	43.4	39.7	35.3	28.7	22.0
80°	99.9	93.3	86.7	79.4	72.8	65.4	58.8	52.9	47.0	38.2	29.4
77.5°	130.1	121.3	111.7	102.9	93.3	83.8	74.2	66.1	57.3	47.0	36.7
75°	158.0	147.7	138.9	126.4	114.6	102.1	89.7	78.6	67.6	55.1	44.1
72.5°	185.9	172.7	160.2	148.4	135.2	119.8	105.8	91.9	77.9	63.2	50.0
70°	213.9	197.7	182.3	168.3	153.6	138.2	121.3	105.1	88.2	70.5	55.1
67.5°	242.5	224.1	206.5	188.9	172.0	154.3	136.7	118.3	98.5	77.9	61.0
65°	274.1	251.3	230.0	210.2	190.3	171.2	151.4	131.5	109.5	86.0	66.1
62.5°	305.7	280.7	255.7	230.8	208.7	187.4	166.1	144.0	119.8	94.8	71.3
60°	339.5	310.9	282.2	254.3	227.1	203.6	180.0	156.5	130.8	102.9	76.4
57.5°	377.0	342.5	310.1	278.5	247.7	219.7	194.0	169.0	140.4	111.0	82.3
55°	419.6	377.0	338.8	303.5	269.7	235.9	208.0	182.3	151.4	119.1	88.9
52.5°	464.5	415.2	368.9	329.2	293.2	255.0	221.2	192.5	162.4	127.1	94.8
50°	516.6	454.2	402.7	354.2	313.8	274.1	235.2	204.3	173.4	136.7	100.7
47.5°	570.3	501.2	436.5	383.6	335.8	292.5	251.3	214.6	183.7	145.5	106.6
45°	632.7	546.0	474.7	412.3	357.2	311.6	267.5	225.6	192.5	154.3	112.4
42.5°	693.0	598.9	514.4	443.9	381.4	330.0	282.2	237.4	201.4	163.1	117.6
40°	764.3	651.8	552.6	474.0	405.7	347.6	296.9	249.9	209.4	171.2	122.7
37.5°	832.6	705.5	598.9	507.1	429.2	365.2	311.6	261.6	216.8	179.3	129.3
35°	900.2	765.0	643.0	537.9	453.4	385.1	326.3	272.6	224.1	185.9	135.2
32.5°	964.9	820.9	687.9	572.5	479.9	403.5	339.5	282.9	231.5	191.8	141.1
30°	1025.2	873.8	732.0	607.8	504.1	420.4	352.0	293.2	240.3	197.0	147.0
27.5°	1080.3	925.2	776.0	640.8	526.9	435.8	365.2	302.8	247.7	202.1	152.1
25°	1130.3	971.5	816.5	671.0	547.5	452.7	377.7	312.3	254.3	206.5	156.5
22.5°	1177.3	1014.1	853.2	701.1	572.5	469.6	389.5	321.1	260.9	210.9	160.9
20°	1218.4	1053.1	888.5	731.2	594.5	485.0	399.8	329.2	266.8	213.9	165.4
17.5°	1251.5	1087.6	920.1	757.7	613.6	498.3	408.6	336.6	271.9	217.5	168.3
15°	1280.9	1117.0	946.5	780.5	630.5	509.3	416.7	342.5	276.3	219.7	172.0
12.5°	1305.9	1142.0	969.3	800.3	645.2	518.8	423.3	346.9	280.0	221.9	174.2
10°	1326.5	1161.9	988.4	815.7	657.0	526.2	428.4	351.3	282.9	224.1	176.4
7.5°	1341.9	1176.6	1002.4	829.0	666.5	531.3	432.9	354.2	285.9	225.6	180.0
5°	1353.7	1189.1	1013.4	837.8	673.9	538.7	438.0	357.9	288.8	227.1	180.0
2.5°	1362.5	1199.3	1022.2	845.1	679.8	537.2	438.0	357.2	288.8	227.1	179.3
0°	1361.0	1200.1	1021.5	845.1	679.8	535.7	438.0	356.4	288.8	227.1	179.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.1	3.7	1.5	0.0
85°	11.0	7.3	3.7	0.0
82.5°	16.2	10.3	5.1	0.0
80°	21.3	14.0	6.6	0.0
77.5°	27.2	17.6	8.8	0.0
75°	32.3	20.6	10.3	0.0
72.5°	37.5	24.3	11.8	0.0
70°	41.9	27.2	13.2	0.0
67.5°	46.3	30.9	15.4	0.0
65°	50.0	33.8	16.9	0.0
62.5°	52.9	37.5	18.4	0.0
60°	56.6	40.4	19.8	0.0
57.5°	59.5	42.6	21.3	0.0
55°	62.5	44.1	22.8	0.0
52.5°	65.4	46.3	24.3	0.0
50°	68.3	48.5	25.7	0.0
47.5°	71.3	50.0	26.5	0.0
45°	75.7	52.2	27.9	0.0
42.5°	79.4	53.6	29.4	0.0
40°	83.0	55.1	30.1	0.0
37.5°	86.7	56.6	31.6	0.0
35°	90.4	58.1	32.3	0.0
32.5°	93.3	59.5	33.1	0.0
30°	96.3	61.0	33.8	0.0
27.5°	99.2	61.7	34.5	0.0
25°	101.4	63.2	35.3	0.0
22.5°	103.6	63.9	36.0	0.0
20°	105.1	64.7	36.7	0.0
17.5°	107.3	65.4	37.5	0.0
15°	108.0	66.1	38.9	0.0
12.5°	109.5	66.9	38.9	0.0
10°	110.2	67.6	38.9	0.0
7.5°	111.7	67.6	38.9	0.0
5°	111.0	67.6	38.9	0.0
2.5°	111.0	67.6	38.9	0.0
0°	110.2	67.6	38.9	0.0

(END OF REPORT)