

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: P628440

Luminaire Tested: **IFLD-S-SA2A-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628440  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-930-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

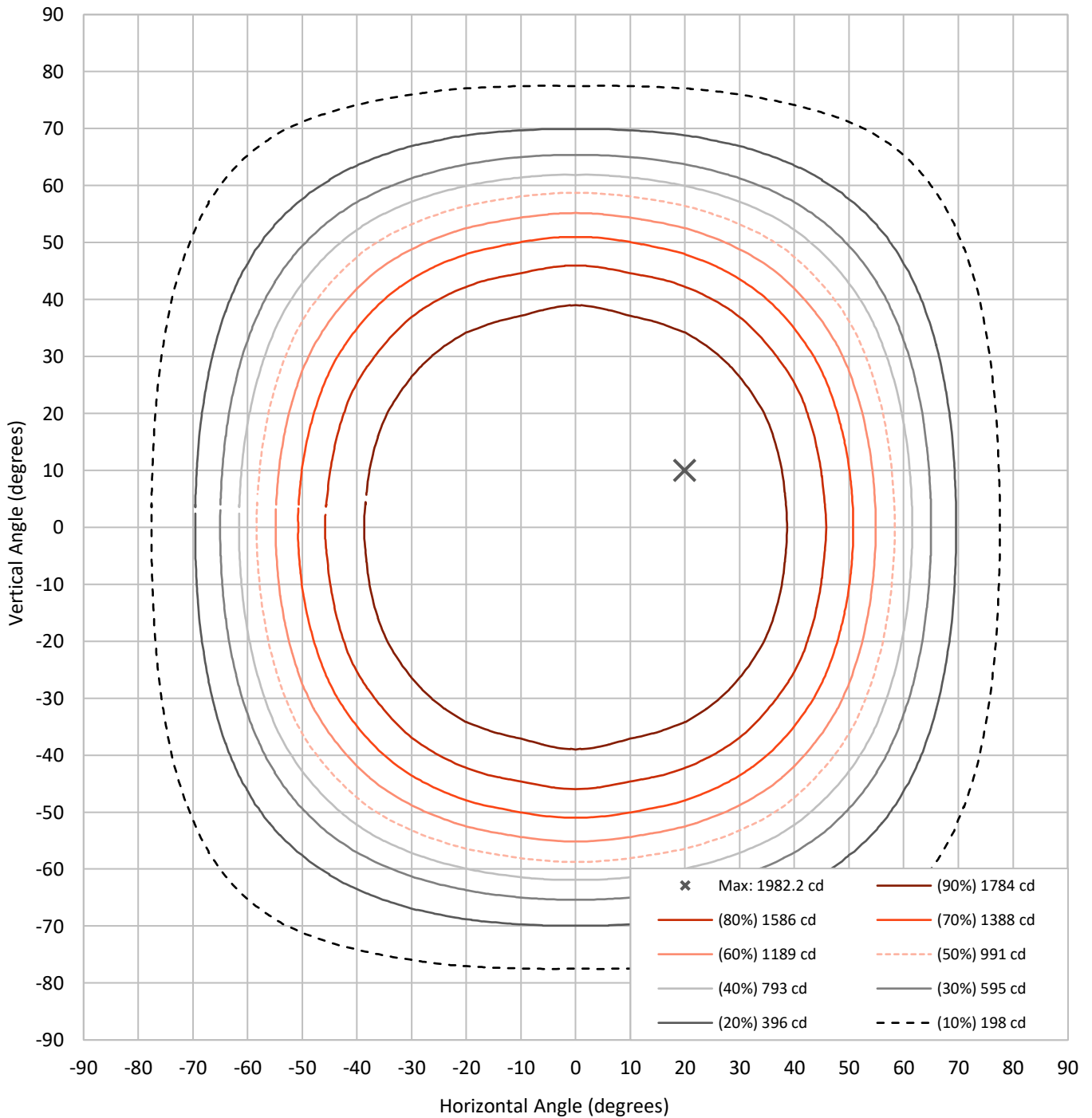
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6081 lumens	Max Intensity:	1982.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	95.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	3731.4 lumens	Field Lumens:	4473.3 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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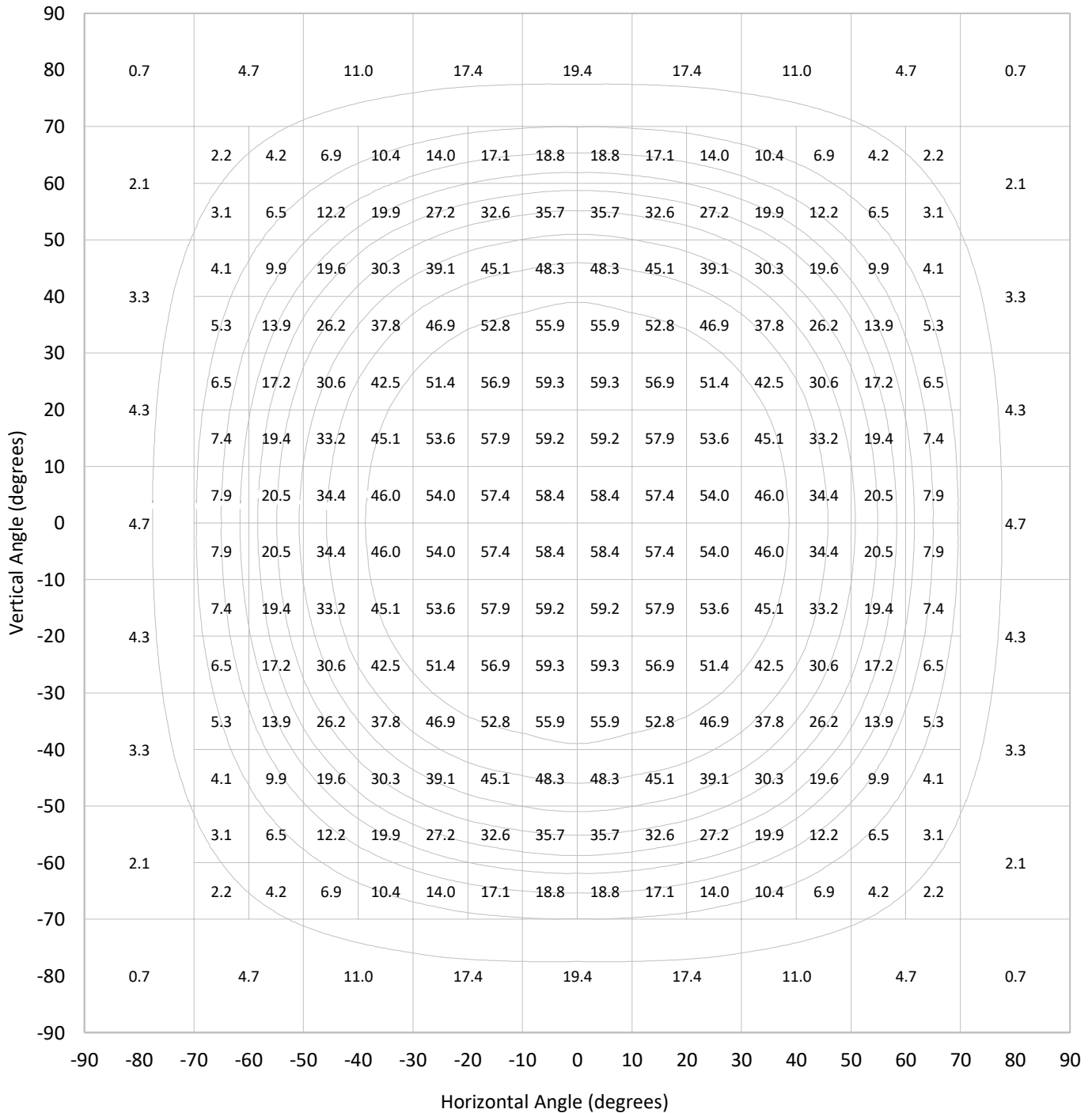
### Iso-Candela Plot





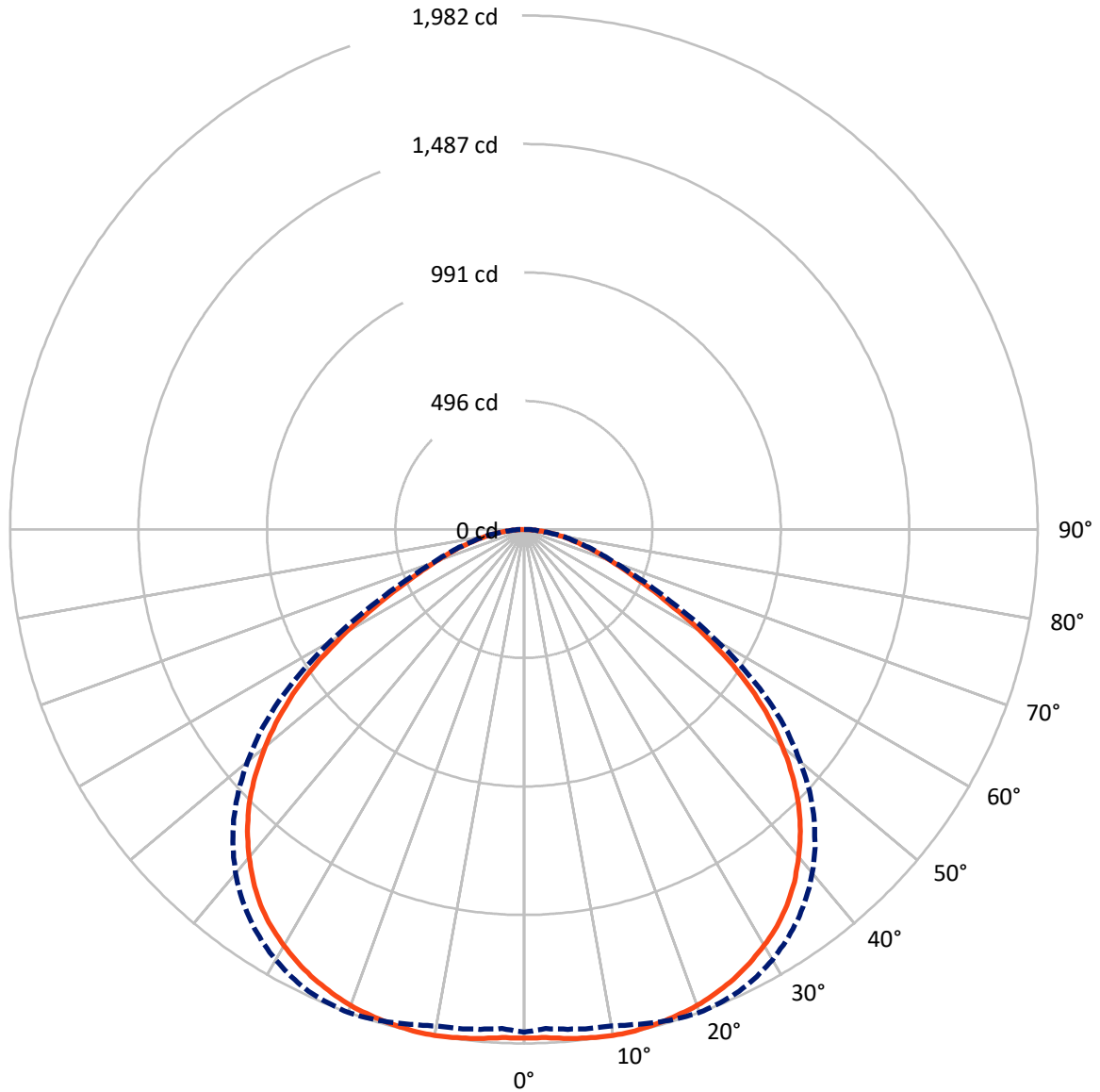
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### Lumen Table



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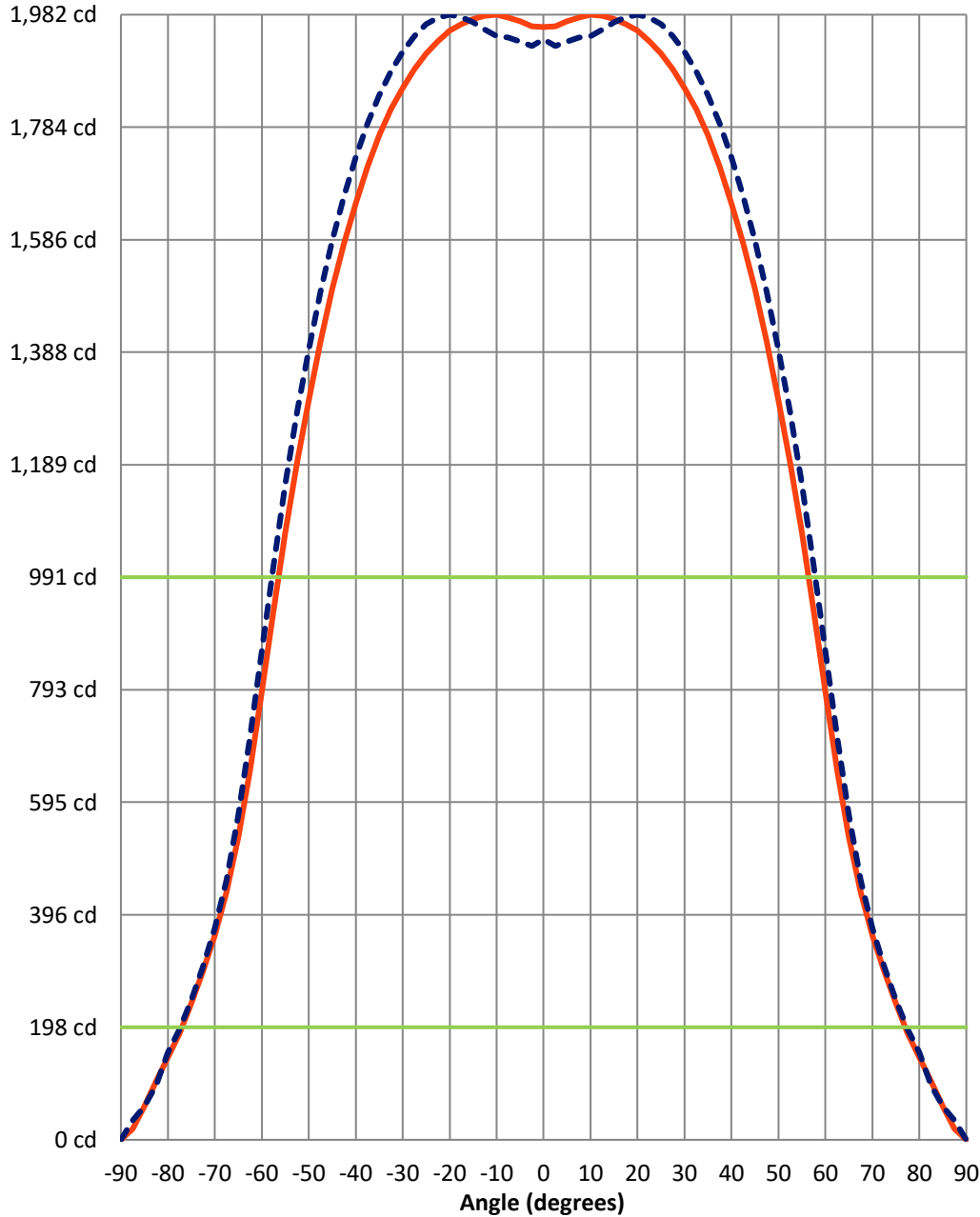
### Luminous Intensity Polar Plot



— 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: 3731.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 4473.3  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 1607.6  
 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°	16.0	17.3	17.9	18.6	19.2	19.8	20.5	19.8	19.2	19.2	18.6
85°	42.9	44.1	44.8	49.3	53.7	56.3	59.5	58.9	58.9	58.2	57.6
82.5°	85.7	89.6	92.8	97.3	99.8	103.7	106.2	104.3	103.0	100.5	98.5
80°	152.3	153.6	154.2	154.8	151.6	151.0	149.7	147.8	145.2	142.0	138.8
77.5°	193.9	195.1	196.4	195.1	194.5	193.9	191.9	190.0	187.5	184.9	181.1
75°	256.6	256.6	256.6	254.6	253.4	251.4	248.2	245.1	240.6	235.5	229.7
72.5°	323.1	322.5	321.8	318.0	314.8	311.0	306.5	302.6	297.5	291.8	284.1
70°	392.8	394.1	394.8	389.6	385.8	380.7	374.9	367.9	360.2	351.9	341.0
67.5°	488.8	487.5	486.3	479.2	474.1	467.1	458.7	448.5	437.0	424.2	408.8
65°	607.8	609.7	605.9	598.9	589.3	577.8	565.0	550.2	533.0	513.8	492.0
62.5°	751.8	755.0	750.5	741.5	729.4	714.0	696.1	675.0	651.3	624.5	597.6
60°	915.6	914.9	906.6	894.5	878.5	859.3	839.4	816.4	789.5	758.2	725.6
57.5°	1065.9	1064.7	1054.4	1042.3	1026.3	1005.8	984.7	960.4	932.2	898.9	861.2
55°	1200.9	1199.7	1189.4	1176.6	1160.0	1139.5	1120.3	1097.3	1069.8	1034.6	994.3
52.5°	1320.6	1321.2	1312.3	1298.2	1280.3	1260.4	1241.9	1218.9	1192.6	1157.4	1118.4
50°	1430.6	1430.0	1420.4	1407.6	1391.0	1371.8	1353.2	1330.2	1302.7	1268.8	1231.0
47.5°	1533.0	1531.7	1520.8	1506.8	1489.5	1472.9	1455.6	1435.1	1406.3	1372.4	1334.7
45°	1618.7	1616.2	1605.3	1591.9	1575.2	1560.5	1545.2	1529.8	1499.1	1467.7	1431.9
42.5°	1692.3	1691.7	1680.8	1667.4	1650.7	1637.9	1623.9	1604.7	1579.1	1550.3	1515.1
40°	1762.7	1757.6	1746.7	1733.9	1718.6	1707.7	1693.6	1674.4	1649.4	1621.3	1587.4
37.5°	1815.2	1815.8	1804.3	1790.2	1776.8	1766.5	1753.7	1735.8	1714.1	1686.6	1652.6
35°	1865.1	1861.9	1852.3	1840.1	1828.0	1816.4	1803.0	1787.7	1769.7	1744.1	1712.2
32.5°	1897.7	1902.2	1890.7	1877.9	1870.8	1861.9	1847.8	1831.8	1815.8	1790.2	1761.4
30°	1933.5	1929.7	1920.7	1909.9	1904.7	1899.0	1886.8	1871.5	1852.9	1829.9	1803.0
27.5°	1958.5	1956.6	1945.7	1935.4	1932.9	1927.8	1918.2	1904.7	1886.2	1863.8	1838.8
25°	1969.4	1970.6	1960.4	1954.6	1954.6	1951.4	1943.8	1932.2	1913.7	1893.2	1868.9
22.5°	1974.5	1973.2	1966.2	1964.9	1968.1	1965.5	1962.3	1952.1	1935.4	1918.8	1898.3
20°	1977.7	1968.7	1962.3	1967.4	1971.3	1970.6	1968.1	1961.7	1954.0	1939.9	1922.0
17.5°	1970.6	1964.9	1957.2	1964.9	1973.2	1973.8	1971.3	1967.4	1965.5	1956.6	1940.6
15°	1953.4	1948.9	1950.2	1957.8	1967.4	1970.6	1972.6	1977.0	1974.5	1967.4	1953.4
12.5°	1941.8	1936.1	1941.8	1949.5	1954.6	1956.6	1971.9	1980.2	1980.2	1973.8	1964.9
10°	1938.6	1927.1	1934.8	1941.8	1944.4	1955.9	1968.7	1977.7	1982.2	1977.0	1965.5
7.5°	1932.2	1924.6	1927.8	1931.0	1945.7	1954.0	1961.0	1970.6	1977.0	1976.4	1966.2
5°	1929.1	1919.5	1920.7	1934.2	1944.4	1950.2	1952.7	1961.0	1970.6	1972.6	1964.9
2.5°	1920.7	1916.3	1925.9	1927.1	1934.8	1939.3	1941.8	1949.5	1961.7	1966.2	1963.0
0°	1916.3	1909.9	1903.5	1908.6	1921.4	1931.0	1934.8	1946.3	1960.4	1964.9	1957.8



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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°	17.9	17.3	16.6	16.0	16.6	16.6	16.6	16.0	16.6	16.0	16.0
85°	55.7	53.1	51.2	48.6	46.1	44.1	41.6	39.0	38.4	37.7	36.5
82.5°	96.0	92.8	89.6	85.7	81.9	77.4	72.9	67.8	66.5	65.3	63.3
80°	135.0	130.5	126.0	121.6	117.7	113.2	108.1	102.4	98.5	95.3	91.5
77.5°	175.9	169.6	163.2	155.5	151.0	146.5	141.4	135.6	129.9	124.8	119.0
75°	222.7	215.6	209.2	201.5	193.2	184.9	176.6	168.9	160.6	152.9	145.2
72.5°	274.5	264.2	254.0	244.4	234.2	223.9	213.1	202.8	192.6	182.3	171.5
70°	328.9	316.1	303.3	290.5	277.0	263.6	250.8	238.0	225.2	211.8	199.6
67.5°	392.8	378.1	361.5	343.6	323.7	306.5	289.8	274.5	259.1	243.8	228.4
65°	472.8	452.4	430.0	405.6	382.6	359.6	335.3	312.2	294.3	276.4	259.1
62.5°	571.4	542.6	511.2	479.9	451.7	421.6	393.5	363.4	335.3	309.7	288.6
60°	689.1	650.1	611.7	571.4	532.3	491.4	455.6	418.4	383.3	351.9	321.2
57.5°	819.0	773.5	727.5	678.2	625.1	577.1	528.5	479.9	438.3	396.7	362.1
55°	950.8	902.8	851.0	795.3	737.1	675.6	609.7	555.4	498.4	449.8	405.0
52.5°	1076.2	1026.3	972.5	921.3	851.6	781.2	708.9	637.3	570.7	508.7	454.3
50°	1188.1	1139.5	1087.7	1028.2	963.6	888.7	808.1	727.5	648.8	575.8	508.0
47.5°	1290.5	1243.2	1191.3	1131.8	1073.0	989.8	908.5	819.6	732.0	648.1	568.8
45°	1386.5	1338.5	1284.8	1227.8	1160.0	1085.8	1002.0	912.4	818.3	724.3	632.8
42.5°	1473.5	1425.5	1371.1	1312.3	1245.1	1171.5	1090.2	1000.0	905.3	803.0	702.5
40°	1549.6	1502.9	1450.5	1389.0	1326.3	1248.9	1168.9	1083.2	985.3	882.3	771.6
37.5°	1616.2	1572.7	1520.8	1460.1	1393.5	1324.4	1241.9	1156.2	1067.9	955.9	842.6
35°	1675.0	1634.7	1581.6	1524.0	1458.8	1385.8	1308.4	1224.6	1129.3	1024.3	914.3
32.5°	1726.2	1685.3	1636.7	1579.1	1515.7	1447.3	1367.9	1283.5	1193.3	1086.4	966.8
30°	1769.7	1730.1	1684.0	1629.6	1568.8	1501.0	1423.6	1338.5	1246.4	1140.2	1021.8
27.5°	1807.5	1769.7	1724.9	1674.4	1616.2	1550.9	1472.9	1387.1	1293.1	1190.7	1072.3
25°	1840.1	1803.6	1762.1	1714.1	1656.5	1592.5	1518.9	1429.4	1335.3	1232.3	1115.2
22.5°	1869.5	1834.4	1792.8	1746.1	1693.6	1629.6	1555.4	1466.5	1371.1	1269.4	1154.2
20°	1895.8	1863.1	1822.2	1774.2	1721.7	1657.1	1583.5	1499.1	1403.1	1303.3	1189.4
17.5°	1916.9	1888.1	1847.2	1796.6	1744.1	1681.4	1609.8	1532.4	1430.6	1332.1	1218.9
15°	1931.6	1903.5	1866.3	1815.2	1764.0	1701.9	1630.3	1550.3	1455.6	1355.1	1243.2
12.5°	1941.8	1911.8	1877.2	1829.9	1778.7	1717.3	1647.5	1568.8	1476.7	1375.6	1264.3
10°	1944.4	1916.9	1882.3	1840.1	1790.2	1730.7	1662.2	1584.2	1494.0	1391.6	1281.6
7.5°	1945.7	1919.5	1888.1	1847.8	1798.5	1740.9	1673.1	1596.3	1506.8	1405.0	1294.4
5°	1945.0	1920.1	1891.9	1852.9	1803.6	1746.7	1680.2	1604.7	1515.7	1414.0	1303.9
2.5°	1943.1	1920.7	1894.5	1856.8	1809.4	1753.1	1687.2	1614.3	1525.3	1421.7	1311.6
0°	1948.2	1929.1	1895.8	1855.5	1810.7	1753.1	1686.6	1615.5	1526.6	1421.0	1311.0





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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°	16.0	15.4	15.4	14.7	14.1	13.4	12.2	11.5	10.2	8.3	6.4
85°	34.6	32.6	30.7	29.4	28.2	26.9	25.0	23.0	20.5	16.6	12.8
82.5°	60.8	56.9	53.1	48.6	44.8	40.9	37.7	34.6	30.7	25.0	19.2
80°	87.0	81.3	75.5	69.1	63.3	56.9	51.2	46.1	40.9	33.3	25.6
77.5°	113.2	105.6	97.3	89.6	81.3	72.9	64.6	57.6	49.9	40.9	32.0
75°	137.6	128.6	120.9	110.0	99.8	88.9	78.1	68.5	58.9	48.0	38.4
72.5°	161.9	150.4	139.5	129.2	117.7	104.3	92.1	80.0	67.8	55.0	43.5
70°	186.2	172.1	158.7	146.5	133.7	120.3	105.6	91.5	76.8	61.4	48.0
67.5°	211.1	195.1	179.8	164.4	149.7	134.4	119.0	103.0	85.7	67.8	53.1
65°	238.7	218.8	200.3	183.0	165.7	149.1	131.8	114.5	95.3	74.9	57.6
62.5°	266.2	244.4	222.7	200.9	181.7	163.2	144.6	125.4	104.3	82.5	62.1
60°	295.6	270.6	245.7	221.4	197.7	177.2	156.8	136.3	113.9	89.6	66.5
57.5°	328.2	298.2	270.0	242.5	215.6	191.3	168.9	147.2	122.2	96.6	71.7
55°	365.3	328.2	295.0	264.2	234.8	205.4	181.1	158.7	131.8	103.7	77.4
52.5°	404.4	361.5	321.2	286.6	255.3	222.0	192.6	167.6	141.4	110.7	82.5
50°	449.8	395.4	350.6	308.4	273.2	238.7	204.7	177.9	151.0	119.0	87.7
47.5°	496.5	436.4	380.1	334.0	292.4	254.6	218.8	186.8	160.0	126.7	92.8
45°	550.9	475.4	413.3	358.9	311.0	271.3	232.9	196.4	167.6	134.4	97.9
42.5°	603.3	521.5	447.9	386.4	332.1	287.3	245.7	206.7	175.3	142.0	102.4
40°	665.4	567.5	481.1	412.7	353.2	302.6	258.5	217.5	182.3	149.1	106.8
37.5°	724.9	614.2	521.5	441.5	373.7	318.0	271.3	227.8	188.7	156.1	112.6
35°	783.8	666.1	559.8	468.3	394.8	335.3	284.1	237.4	195.1	161.9	117.7
32.5°	840.1	714.7	598.9	498.4	417.8	351.3	295.6	246.3	201.5	167.0	122.8
30°	892.5	760.7	637.3	529.1	438.9	366.0	306.5	255.3	209.2	171.5	128.0
27.5°	940.5	805.5	675.6	557.9	458.7	379.4	318.0	263.6	215.6	175.9	132.4
25°	984.0	845.8	710.8	584.2	476.7	394.1	328.9	271.9	221.4	179.8	136.3
22.5°	1025.0	882.9	742.8	610.4	498.4	408.8	339.1	279.6	227.1	183.6	140.1
20°	1060.8	916.9	773.5	636.6	517.6	422.3	348.1	286.6	232.3	186.2	144.0
17.5°	1089.6	946.9	801.1	659.7	534.2	433.8	355.7	293.0	236.7	189.4	146.5
15°	1115.2	972.5	824.1	679.5	549.0	443.4	362.8	298.2	240.6	191.3	149.7
12.5°	1137.0	994.3	843.9	696.8	561.8	451.7	368.5	302.0	243.8	193.2	151.6
10°	1154.9	1011.6	860.6	710.2	572.0	458.1	373.0	305.8	246.3	195.1	153.6
7.5°	1168.3	1024.3	872.7	721.7	580.3	462.6	376.9	308.4	248.9	196.4	156.8
5°	1178.5	1035.2	882.3	729.4	586.7	469.0	381.3	311.6	251.4	197.7	156.8
2.5°	1186.2	1044.2	890.0	735.8	591.8	467.7	381.3	311.0	251.4	197.7	156.1
0°	1184.9	1044.8	889.3	735.8	591.8	466.4	381.3	310.3	251.4	197.7	156.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.5	3.2	1.3	0.0
85°	9.6	6.4	3.2	0.0
82.5°	14.1	9.0	4.5	0.0
80°	18.6	12.2	5.8	0.0
77.5°	23.7	15.4	7.7	0.0
75°	28.2	17.9	9.0	0.0
72.5°	32.6	21.1	10.2	0.0
70°	36.5	23.7	11.5	0.0
67.5°	40.3	26.9	13.4	0.0
65°	43.5	29.4	14.7	0.0
62.5°	46.1	32.6	16.0	0.0
60°	49.3	35.2	17.3	0.0
57.5°	51.8	37.1	18.6	0.0
55°	54.4	38.4	19.8	0.0
52.5°	56.9	40.3	21.1	0.0
50°	59.5	42.2	22.4	0.0
47.5°	62.1	43.5	23.0	0.0
45°	65.9	45.4	24.3	0.0
42.5°	69.1	46.7	25.6	0.0
40°	72.3	48.0	26.2	0.0
37.5°	75.5	49.3	27.5	0.0
35°	78.7	50.5	28.2	0.0
32.5°	81.3	51.8	28.8	0.0
30°	83.8	53.1	29.4	0.0
27.5°	86.4	53.7	30.1	0.0
25°	88.3	55.0	30.7	0.0
22.5°	90.2	55.7	31.4	0.0
20°	91.5	56.3	32.0	0.0
17.5°	93.4	56.9	32.6	0.0
15°	94.1	57.6	33.9	0.0
12.5°	95.3	58.2	33.9	0.0
10°	96.0	58.9	33.9	0.0
7.5°	97.3	58.9	33.9	0.0
5°	96.6	58.9	33.9	0.0
2.5°	96.6	58.9	33.9	0.0
0°	96.0	58.9	33.9	0.0

(END OF REPORT)