

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: P628469

Luminaire Tested: **IFLD-S-SA2A-935-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628469  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-935-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

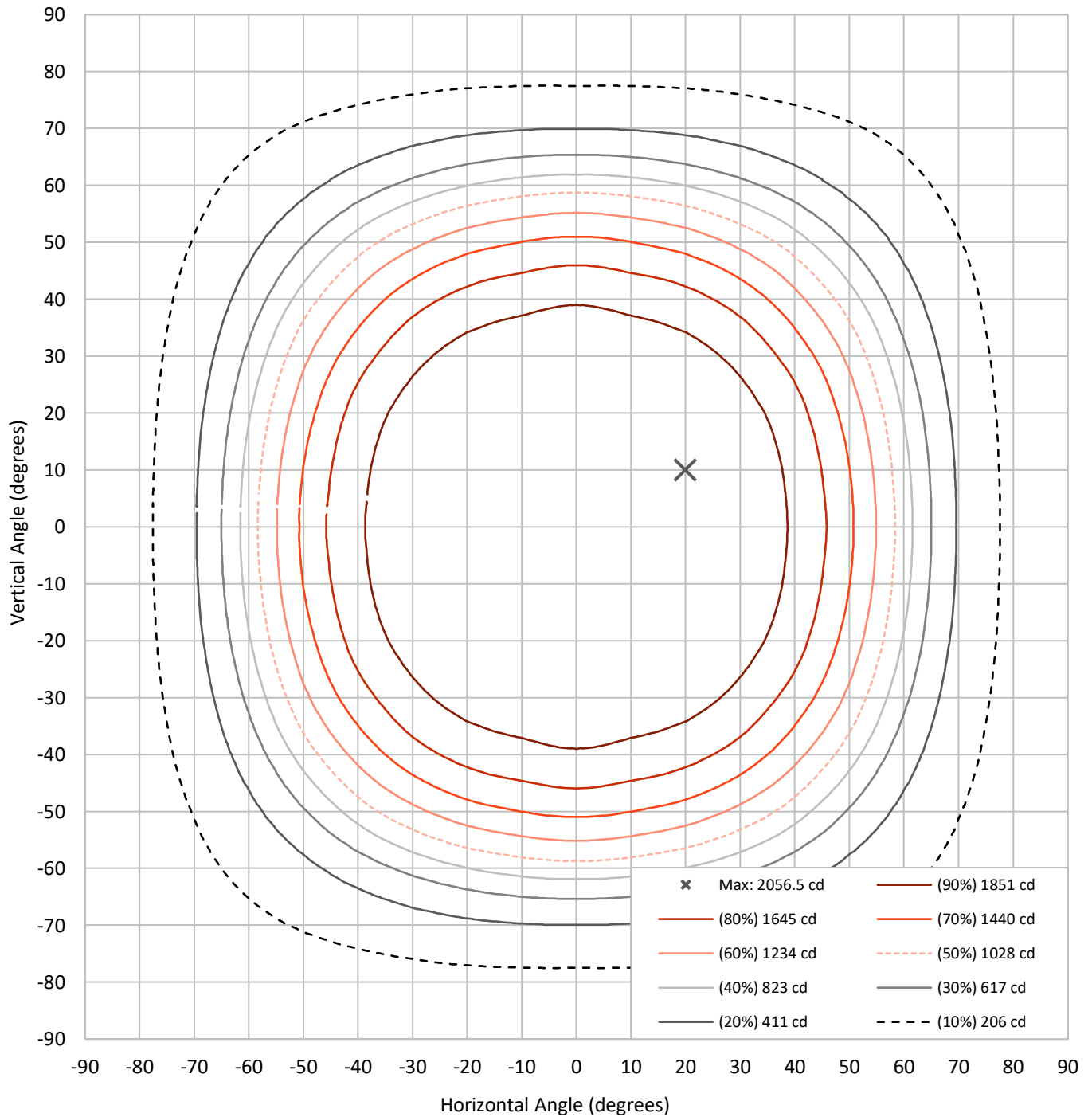
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6309 lumens	Max Intensity:	2056.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	3871.3 lumens	Field Lumens:	4641.1 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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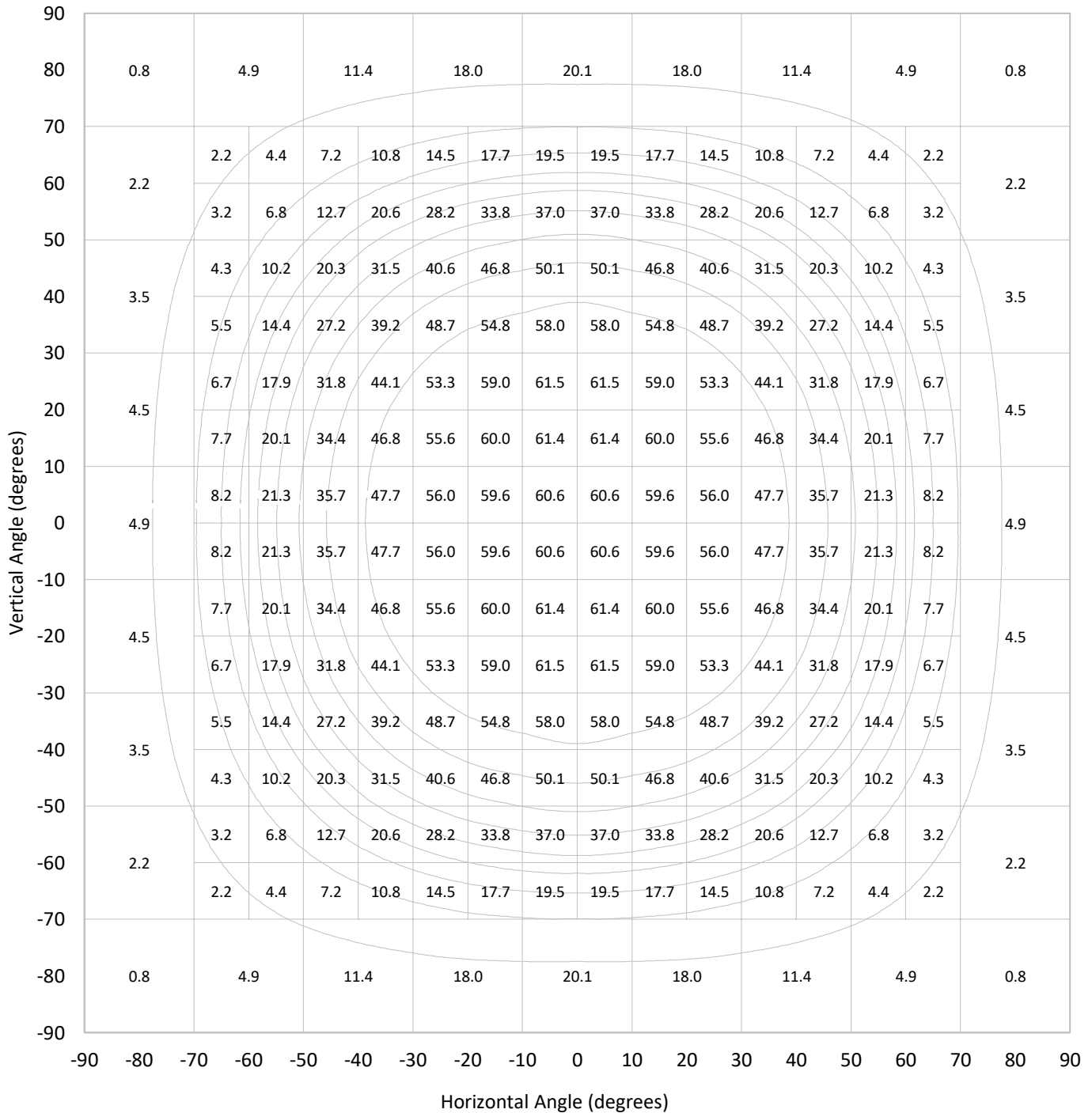
### Iso-Candela Plot





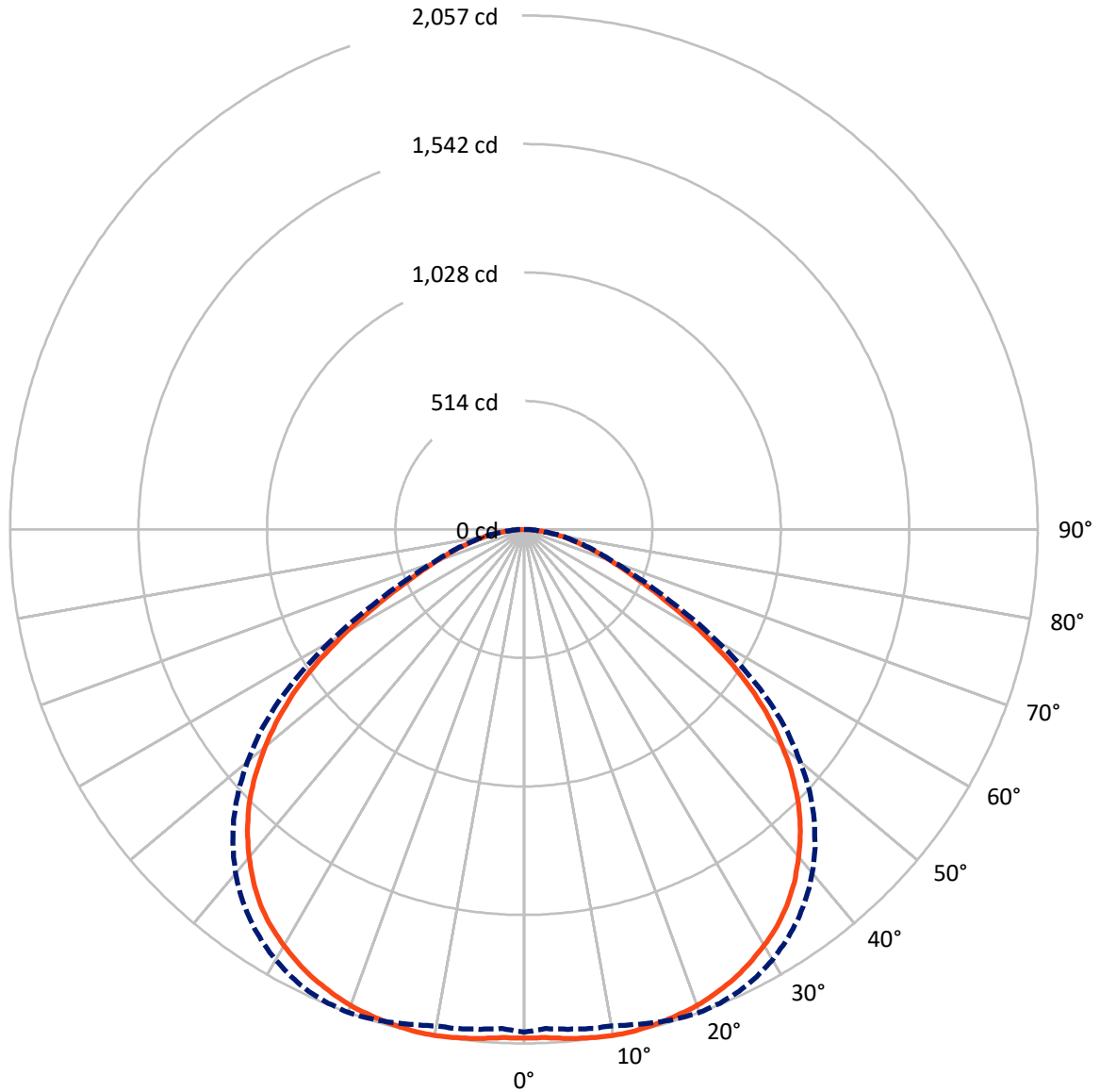
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### Lumen Table



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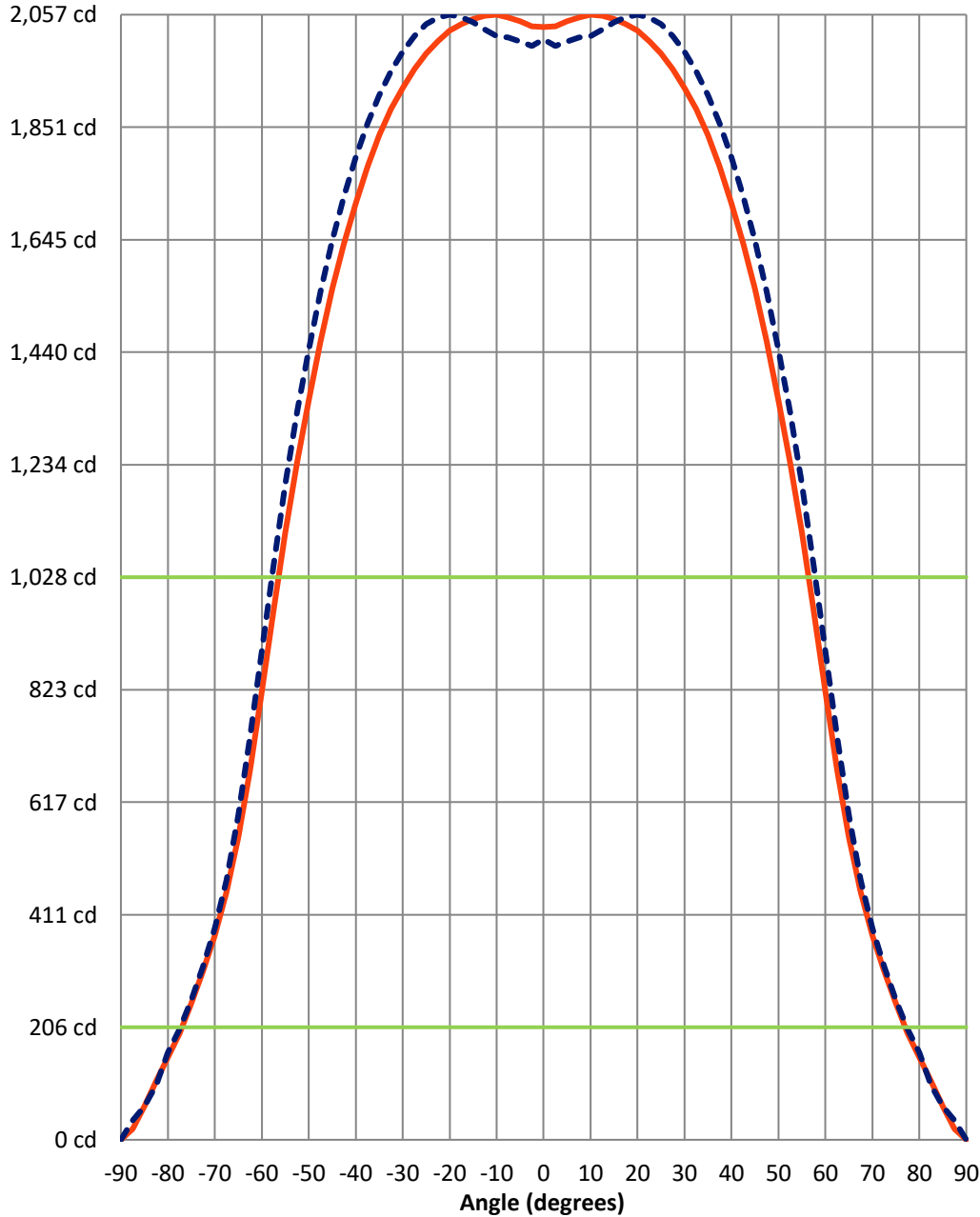
### Luminous Intensity Polar Plot



— 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: 3871.3  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 4641.1  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 1667.9  
 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°	16.6	17.9	18.6	19.3	19.9	20.6	21.2	20.6	19.9	19.9	19.3
85°	44.5	45.8	46.5	51.1	55.8	58.4	61.7	61.1	61.1	60.4	59.7
82.5°	89.0	92.9	96.3	100.9	103.6	107.5	110.2	108.2	106.9	104.2	102.2
80°	158.0	159.3	160.0	160.6	157.3	156.7	155.3	153.3	150.7	147.4	144.0
77.5°	201.1	202.5	203.8	202.5	201.8	201.1	199.1	197.2	194.5	191.8	187.9
75°	266.2	266.2	266.2	264.2	262.9	260.9	257.6	254.2	249.6	244.3	238.3
72.5°	335.2	334.6	333.9	329.9	326.6	322.6	318.0	314.0	308.7	302.7	294.7
70°	407.6	408.9	409.6	404.3	400.3	395.0	389.0	381.7	373.7	365.1	353.8
67.5°	507.2	505.8	504.5	497.2	491.9	484.6	476.0	465.3	453.4	440.1	424.2
65°	630.6	632.6	628.6	621.3	611.4	599.4	586.1	570.9	553.0	533.0	510.5
62.5°	780.0	783.3	778.7	769.4	756.7	740.8	722.2	700.3	675.8	647.9	620.0
60°	949.9	949.2	940.6	928.0	911.4	891.5	870.9	847.0	819.1	786.6	752.8
57.5°	1105.9	1104.6	1094.0	1081.3	1064.8	1043.5	1021.6	996.4	967.2	932.7	893.5
55°	1246.0	1244.6	1234.0	1220.7	1203.5	1182.2	1162.3	1138.4	1109.9	1073.4	1031.6
52.5°	1370.1	1370.8	1361.5	1346.9	1328.3	1307.7	1288.5	1264.6	1237.3	1200.8	1160.3
50°	1484.3	1483.6	1473.7	1460.4	1443.1	1423.2	1404.0	1380.1	1351.5	1316.3	1277.2
47.5°	1590.5	1589.2	1577.9	1563.3	1545.4	1528.1	1510.2	1488.9	1459.1	1423.9	1384.7
45°	1679.4	1676.8	1665.5	1651.6	1634.3	1619.0	1603.1	1587.2	1555.3	1522.8	1485.6
42.5°	1755.8	1755.1	1743.8	1729.9	1712.6	1699.4	1684.8	1664.8	1638.3	1608.4	1571.9
40°	1828.8	1823.5	1812.2	1798.9	1783.0	1771.7	1757.1	1737.2	1711.3	1682.1	1646.9
37.5°	1883.2	1883.9	1871.9	1857.3	1843.4	1832.8	1819.5	1800.9	1778.3	1749.8	1714.6
35°	1935.0	1931.7	1921.7	1909.1	1896.5	1884.6	1870.6	1854.7	1836.1	1809.5	1776.4
32.5°	1968.9	1973.5	1961.6	1948.3	1941.0	1931.7	1917.1	1900.5	1883.9	1857.3	1827.5
30°	2006.0	2002.1	1992.8	1981.5	1976.2	1970.2	1957.6	1941.6	1922.4	1898.5	1870.6
27.5°	2031.9	2029.9	2018.6	2008.0	2005.4	2000.1	1990.1	1976.2	1956.9	1933.7	1907.8
25°	2043.2	2044.5	2033.9	2027.9	2027.9	2024.6	2016.7	2004.7	1985.5	1964.2	1939.0
22.5°	2048.5	2047.2	2039.9	2038.6	2041.9	2039.2	2035.9	2025.3	2008.0	1990.8	1969.5
20°	2051.8	2042.5	2035.9	2041.2	2045.2	2044.5	2041.9	2035.2	2027.3	2012.7	1994.1
17.5°	2044.5	2038.6	2030.6	2038.6	2047.2	2047.9	2045.2	2041.2	2039.2	2029.9	2013.3
15°	2026.6	2022.0	2023.3	2031.3	2041.2	2044.5	2046.5	2051.2	2048.5	2041.2	2026.6
12.5°	2014.7	2008.7	2014.7	2022.6	2027.9	2029.9	2045.9	2054.5	2054.5	2047.9	2038.6
10°	2011.3	1999.4	2007.4	2014.7	2017.3	2029.3	2042.5	2051.8	2056.5	2051.2	2039.2
7.5°	2004.7	1996.7	2000.1	2003.4	2018.6	2027.3	2034.6	2044.5	2051.2	2050.5	2039.9
5°	2001.4	1991.4	1992.8	2006.7	2017.3	2023.3	2026.0	2034.6	2044.5	2046.5	2038.6
2.5°	1992.8	1988.1	1998.1	1999.4	2007.4	2012.0	2014.7	2022.6	2035.2	2039.9	2036.6
0°	1988.1	1981.5	1974.8	1980.1	1993.4	2003.4	2007.4	2019.3	2033.9	2038.6	2031.3



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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°	18.6	17.9	17.3	16.6	17.3	17.3	17.3	16.6	17.3	16.6	16.6
85°	57.8	55.1	53.1	50.4	47.8	45.8	43.1	40.5	39.8	39.2	37.8
82.5°	99.6	96.3	92.9	89.0	85.0	80.3	75.7	70.4	69.0	67.7	65.7
80°	140.1	135.4	130.8	126.1	122.1	117.5	112.2	106.2	102.2	98.9	94.9
77.5°	182.5	175.9	169.3	161.3	156.7	152.0	146.7	140.7	134.8	129.4	123.5
75°	231.0	223.7	217.1	209.1	200.5	191.8	183.2	175.2	166.6	158.7	150.7
72.5°	284.8	274.2	263.5	253.6	243.0	232.3	221.0	210.4	199.8	189.2	177.9
70°	341.2	327.9	314.6	301.4	287.4	273.5	260.2	246.9	233.7	219.7	207.1
67.5°	407.6	392.3	375.1	356.5	335.9	318.0	300.7	284.8	268.8	252.9	237.0
65°	490.6	469.3	446.1	420.9	397.0	373.1	347.8	323.9	305.4	286.8	268.8
62.5°	592.8	562.9	530.4	497.9	468.7	437.5	408.2	377.0	347.8	321.3	299.4
60°	714.9	674.4	634.6	592.8	552.3	509.8	472.6	434.1	397.6	365.1	333.2
57.5°	849.7	802.5	754.8	703.6	648.5	598.8	548.3	497.9	454.7	411.6	375.7
55°	986.4	936.6	882.9	825.1	764.7	701.0	632.6	576.2	517.1	466.7	420.2
52.5°	1116.5	1064.8	1009.0	955.9	883.5	810.5	735.5	661.2	592.1	527.7	471.3
50°	1232.7	1182.2	1128.5	1066.7	999.7	922.0	838.4	754.8	673.1	597.4	527.1
47.5°	1338.9	1289.8	1236.0	1174.3	1113.2	1026.9	942.6	850.3	759.4	672.4	590.1
45°	1438.5	1388.7	1332.9	1273.9	1203.5	1126.5	1039.5	946.6	849.0	751.4	656.5
42.5°	1528.8	1479.0	1422.5	1361.5	1291.8	1215.4	1131.1	1037.5	939.3	833.1	728.9
40°	1607.7	1559.3	1504.9	1441.1	1376.1	1295.8	1212.8	1123.8	1022.3	915.4	800.6
37.5°	1676.8	1631.6	1577.9	1514.8	1445.8	1374.1	1288.5	1199.5	1107.9	991.7	874.2
35°	1737.9	1696.0	1640.9	1581.2	1513.5	1437.8	1357.5	1270.5	1171.6	1062.8	948.6
32.5°	1791.0	1748.5	1698.0	1638.3	1572.6	1501.5	1419.2	1331.6	1238.0	1127.2	1003.0
30°	1836.1	1794.9	1747.1	1690.7	1627.7	1557.3	1477.0	1388.7	1293.1	1182.9	1060.1
27.5°	1875.3	1836.1	1789.6	1737.2	1676.8	1609.1	1528.1	1439.1	1341.6	1235.4	1112.5
25°	1909.1	1871.3	1828.1	1778.3	1718.6	1652.2	1575.9	1483.0	1385.4	1278.5	1157.0
22.5°	1939.7	1903.1	1860.0	1811.5	1757.1	1690.7	1613.7	1521.5	1422.5	1317.0	1197.5
20°	1966.9	1933.0	1890.5	1840.7	1786.3	1719.3	1642.9	1555.3	1455.7	1352.2	1234.0
17.5°	1988.8	1958.9	1916.4	1864.0	1809.5	1744.5	1670.1	1589.8	1484.3	1382.1	1264.6
15°	2004.0	1974.8	1936.3	1883.2	1830.1	1765.7	1691.4	1608.4	1510.2	1406.0	1289.8
12.5°	2014.7	1983.5	1947.6	1898.5	1845.4	1781.7	1709.3	1627.7	1532.1	1427.2	1311.7
10°	2017.3	1988.8	1952.9	1909.1	1857.3	1795.6	1724.6	1643.6	1550.0	1443.8	1329.6
7.5°	2018.6	1991.4	1958.9	1917.1	1866.0	1806.2	1735.9	1656.2	1563.3	1457.7	1342.9
5°	2018.0	1992.1	1962.9	1922.4	1871.3	1812.2	1743.2	1664.8	1572.6	1467.0	1352.8
2.5°	2016.0	1992.8	1965.5	1926.4	1877.3	1818.8	1750.5	1674.8	1582.5	1475.0	1360.8
0°	2021.3	2001.4	1966.9	1925.1	1878.6	1818.8	1749.8	1676.1	1583.9	1474.3	1360.1





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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°	16.6	15.9	15.9	15.3	14.6	13.9	12.6	11.9	10.6	8.6	6.6
85°	35.8	33.9	31.9	30.5	29.2	27.9	25.9	23.9	21.2	17.3	13.3
82.5°	63.1	59.1	55.1	50.4	46.5	42.5	39.2	35.8	31.9	25.9	19.9
80°	90.3	84.3	78.3	71.7	65.7	59.1	53.1	47.8	42.5	34.5	26.6
77.5°	117.5	109.5	100.9	92.9	84.3	75.7	67.0	59.7	51.8	42.5	33.2
75°	142.7	133.4	125.5	114.2	103.6	92.3	81.0	71.0	61.1	49.8	39.8
72.5°	167.9	156.0	144.7	134.1	122.1	108.2	95.6	83.0	70.4	57.1	45.1
70°	193.2	178.6	164.6	152.0	138.7	124.8	109.5	94.9	79.7	63.7	49.8
67.5°	219.1	202.5	186.5	170.6	155.3	139.4	123.5	106.9	89.0	70.4	55.1
65°	247.6	227.0	207.8	189.8	171.9	154.7	136.7	118.8	98.9	77.7	59.7
62.5°	276.1	253.6	231.0	208.4	188.5	169.3	150.0	130.1	108.2	85.6	64.4
60°	306.7	280.8	254.9	229.7	205.1	183.9	162.6	141.4	118.2	92.9	69.0
57.5°	340.5	309.3	280.1	251.6	223.7	198.5	175.2	152.7	126.8	100.2	74.3
55°	379.0	340.5	306.0	274.2	243.6	213.1	187.9	164.6	136.7	107.5	80.3
52.5°	419.5	375.1	333.2	297.4	264.9	230.3	199.8	173.9	146.7	114.8	85.6
50°	466.7	410.2	363.8	320.0	283.4	247.6	212.4	184.5	156.7	123.5	90.9
47.5°	515.1	452.7	394.3	346.5	303.4	264.2	227.0	193.8	166.0	131.4	96.3
45°	571.5	493.2	428.8	372.4	322.6	281.5	241.6	203.8	173.9	139.4	101.6
42.5°	626.0	541.0	464.7	400.9	344.5	298.1	254.9	214.4	181.9	147.4	106.2
40°	690.4	588.8	499.2	428.2	366.4	314.0	268.2	225.7	189.2	154.7	110.9
37.5°	752.1	637.3	541.0	458.0	387.7	329.9	281.5	236.3	195.8	162.0	116.8
35°	813.2	691.0	580.8	485.9	409.6	347.8	294.7	246.3	202.5	167.9	122.1
32.5°	871.6	741.5	621.3	517.1	433.5	364.4	306.7	255.6	209.1	173.3	127.5
30°	926.0	789.3	661.2	549.0	455.4	379.7	318.0	264.9	217.1	177.9	132.8
27.5°	975.8	835.7	701.0	578.8	476.0	393.6	329.9	273.5	223.7	182.5	137.4
25°	1020.9	877.6	737.5	606.1	494.5	408.9	341.2	282.1	229.7	186.5	141.4
22.5°	1063.4	916.1	770.7	633.3	517.1	424.2	351.8	290.1	235.7	190.5	145.4
20°	1100.6	951.2	802.5	660.5	537.0	438.1	361.1	297.4	241.0	193.2	149.4
17.5°	1130.5	982.4	831.1	684.4	554.3	450.1	369.1	304.0	245.6	196.5	152.0
15°	1157.0	1009.0	855.0	705.0	569.5	460.0	376.4	309.3	249.6	198.5	155.3
12.5°	1179.6	1031.6	875.6	722.9	582.8	468.7	382.4	313.3	252.9	200.5	157.3
10°	1198.2	1049.5	892.8	736.8	593.4	475.3	387.0	317.3	255.6	202.5	159.3
7.5°	1212.1	1062.8	905.4	748.8	602.1	479.9	391.0	320.0	258.2	203.8	162.6
5°	1222.7	1074.0	915.4	756.7	608.7	486.6	395.6	323.3	260.9	205.1	162.6
2.5°	1230.7	1083.3	923.4	763.4	614.0	485.2	395.6	322.6	260.9	205.1	162.0
0°	1229.4	1084.0	922.7	763.4	614.0	483.9	395.6	321.9	260.9	205.1	162.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.6	3.3	1.3	0.0
85°	10.0	6.6	3.3	0.0
82.5°	14.6	9.3	4.6	0.0
80°	19.3	12.6	6.0	0.0
77.5°	24.6	15.9	8.0	0.0
75°	29.2	18.6	9.3	0.0
72.5°	33.9	21.9	10.6	0.0
70°	37.8	24.6	11.9	0.0
67.5°	41.8	27.9	13.9	0.0
65°	45.1	30.5	15.3	0.0
62.5°	47.8	33.9	16.6	0.0
60°	51.1	36.5	17.9	0.0
57.5°	53.8	38.5	19.3	0.0
55°	56.4	39.8	20.6	0.0
52.5°	59.1	41.8	21.9	0.0
50°	61.7	43.8	23.2	0.0
47.5°	64.4	45.1	23.9	0.0
45°	68.4	47.1	25.2	0.0
42.5°	71.7	48.5	26.6	0.0
40°	75.0	49.8	27.2	0.0
37.5°	78.3	51.1	28.5	0.0
35°	81.6	52.4	29.2	0.0
32.5°	84.3	53.8	29.9	0.0
30°	87.0	55.1	30.5	0.0
27.5°	89.6	55.8	31.2	0.0
25°	91.6	57.1	31.9	0.0
22.5°	93.6	57.8	32.5	0.0
20°	94.9	58.4	33.2	0.0
17.5°	96.9	59.1	33.9	0.0
15°	97.6	59.7	35.2	0.0
12.5°	98.9	60.4	35.2	0.0
10°	99.6	61.1	35.2	0.0
7.5°	100.9	61.1	35.2	0.0
5°	100.2	61.1	35.2	0.0
2.5°	100.2	61.1	35.2	0.0
0°	99.6	61.1	35.2	0.0

(END OF REPORT)