

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: P628527

Luminaire Tested: **IFLD-S-SA2A-950-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628527
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-950-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

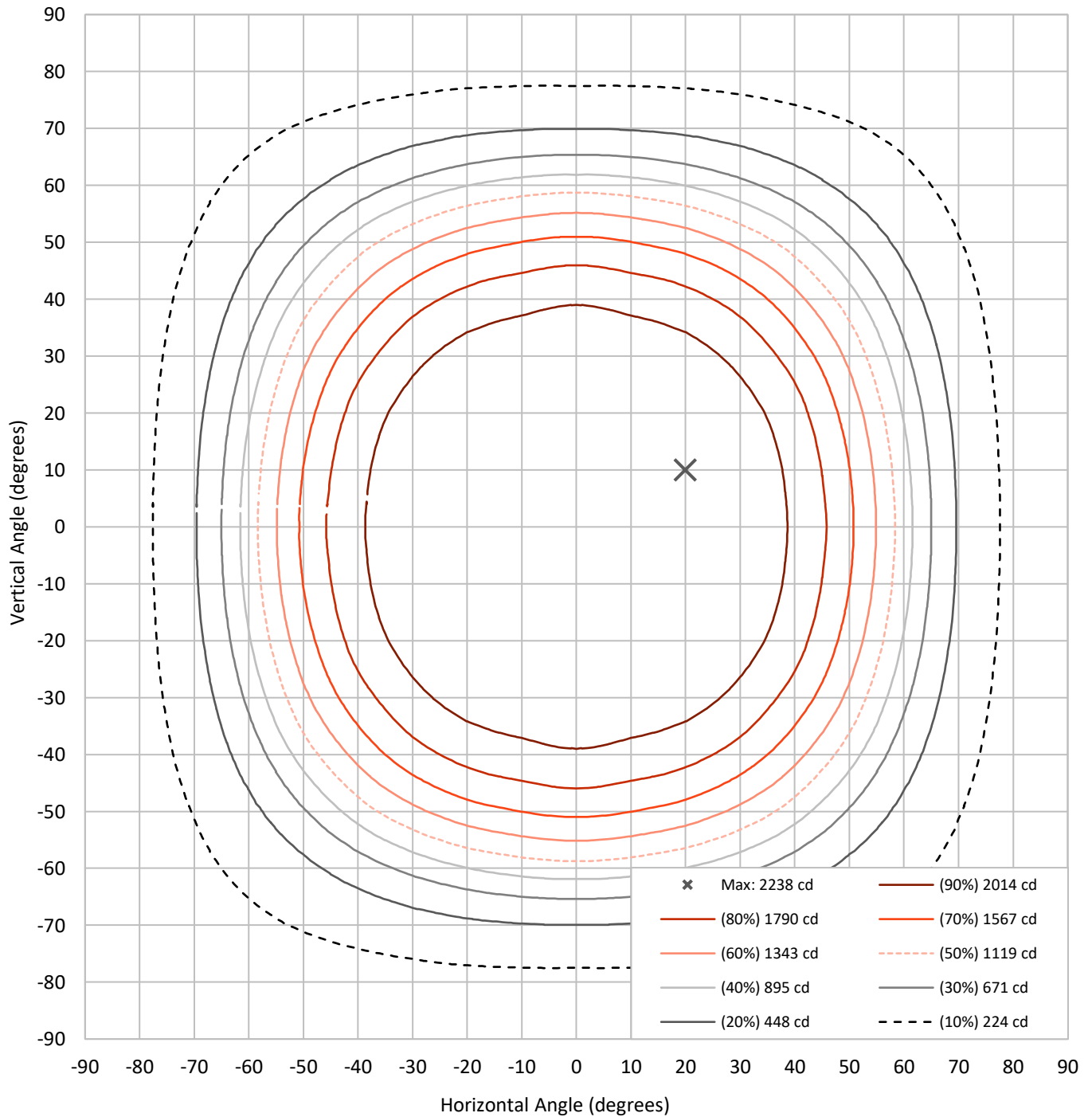
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6865.8 lumens	Max Intensity:	2238 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.6 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:	4213 lumens	Field Lumens:	5050.7 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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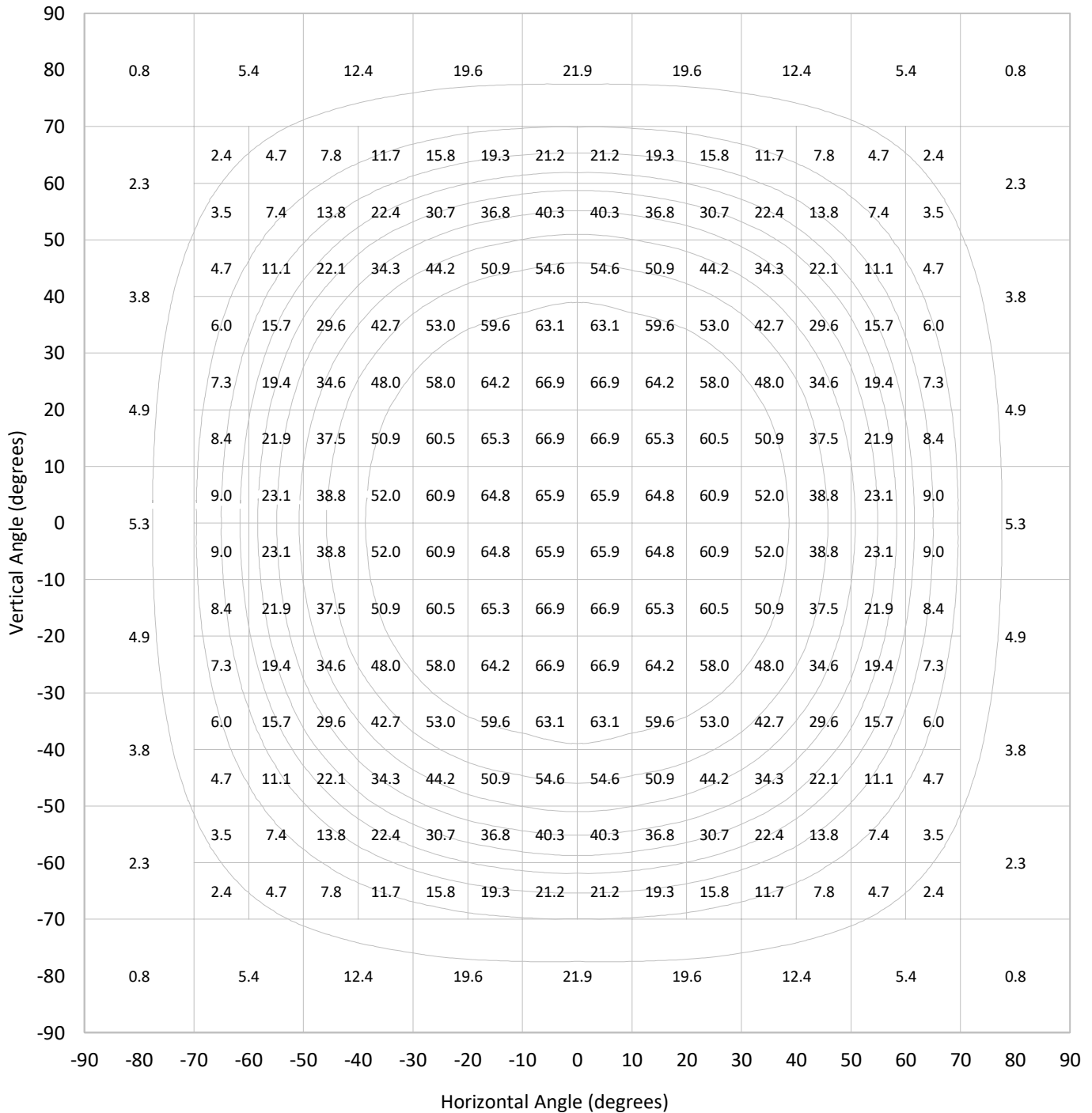
Iso-Candela Plot





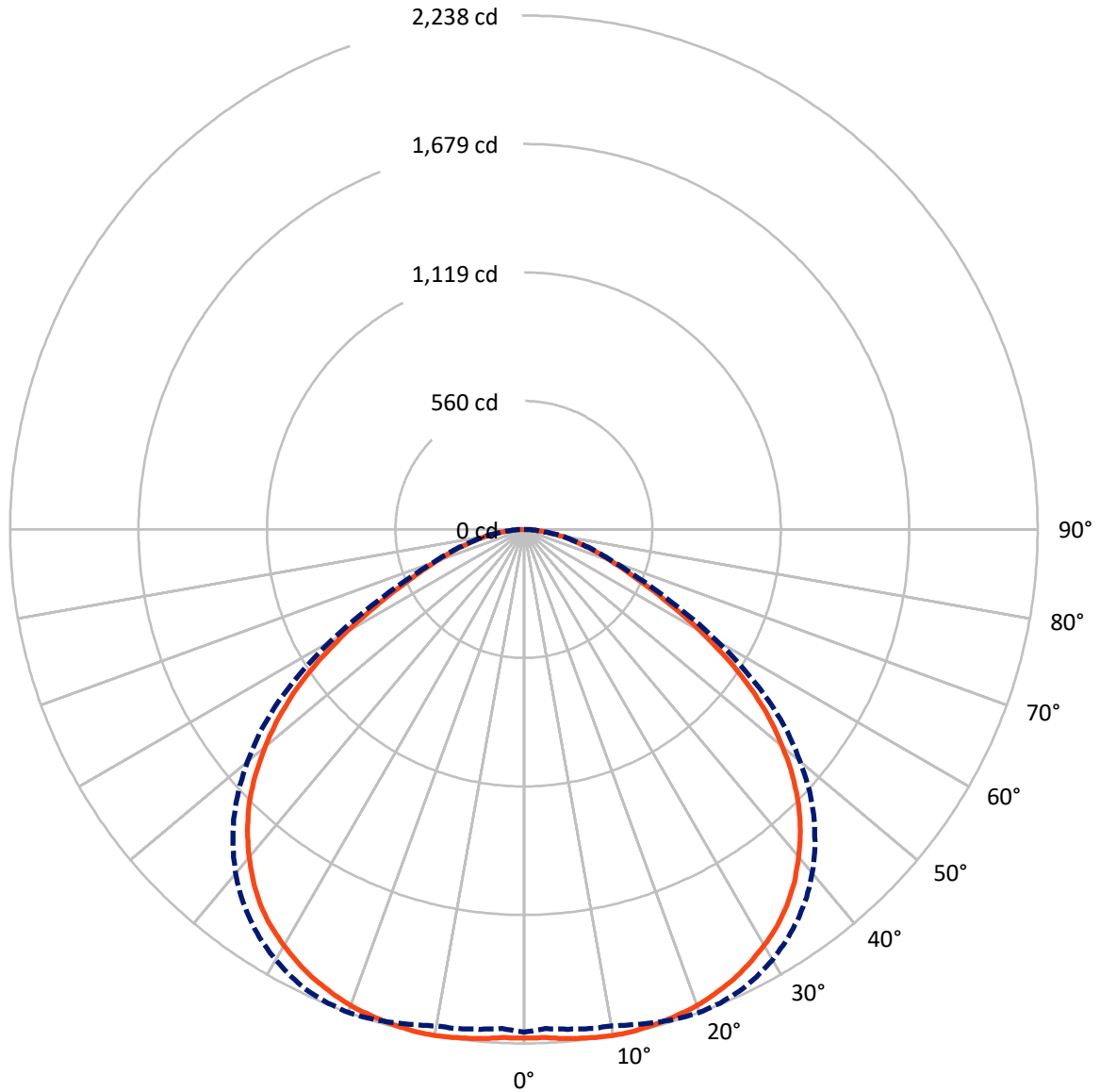
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Lumen Table



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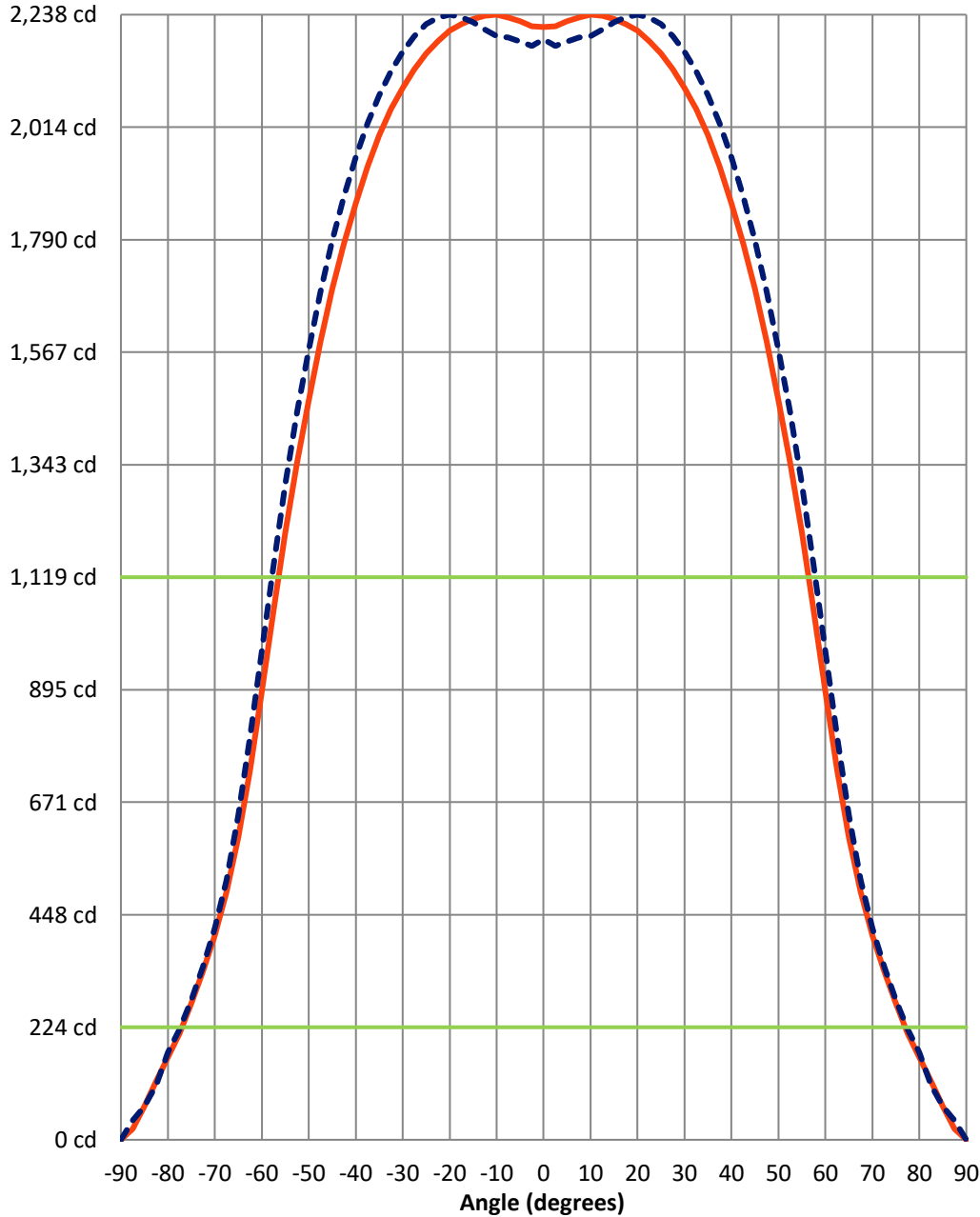
Luminous Intensity Polar Plot



— 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: 4213
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 5050.7
 Efficiency: 73.6%

Spill:
 Lumens: 1815.1
 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°	18.1	19.5	20.2	20.9	21.7	22.4	23.1	22.4	21.7	21.7	20.9
85°	48.4	49.8	50.6	55.6	60.7	63.6	67.2	66.5	66.5	65.7	65.0
82.5°	96.8	101.1	104.7	109.8	112.7	117.0	119.9	117.8	116.3	113.4	111.2
80°	171.9	173.4	174.1	174.8	171.2	170.5	169.0	166.9	164.0	160.4	156.8
77.5°	218.9	220.3	221.8	220.3	219.6	218.9	216.7	214.6	211.7	208.8	204.4
75°	289.7	289.7	289.7	287.5	286.1	283.9	280.3	276.7	271.6	265.8	259.3
72.5°	364.8	364.1	363.4	359.0	355.4	351.1	346.0	341.7	335.9	329.4	320.7
70°	443.5	445.0	445.7	439.9	435.6	429.8	423.3	415.4	406.7	397.3	385.0
67.5°	551.9	550.5	549.0	541.1	535.3	527.3	518.0	506.4	493.4	478.9	461.6
65°	686.3	688.4	684.1	676.2	665.3	652.3	637.9	621.3	601.8	580.1	555.5
62.5°	848.8	852.4	847.4	837.3	823.5	806.2	786.0	762.1	735.4	705.1	674.7
60°	1033.7	1033.0	1023.6	1009.9	991.8	970.2	947.8	921.8	891.4	856.0	819.2
57.5°	1203.5	1202.1	1190.5	1176.8	1158.7	1135.6	1111.8	1084.3	1052.5	1015.0	972.3
55°	1355.9	1354.5	1342.9	1328.5	1309.7	1286.6	1264.9	1238.9	1207.8	1168.1	1122.6
52.5°	1491.0	1491.7	1481.6	1465.7	1445.5	1423.1	1402.2	1376.2	1346.5	1306.8	1262.7
50°	1615.3	1614.6	1603.7	1589.3	1570.5	1548.8	1527.9	1501.9	1470.8	1432.5	1389.9
47.5°	1730.9	1729.4	1717.1	1701.2	1681.7	1663.0	1643.4	1620.3	1587.8	1549.5	1506.9
45°	1827.7	1824.8	1812.5	1797.3	1778.5	1761.9	1744.6	1727.2	1692.6	1657.2	1616.7
42.5°	1910.7	1910.0	1897.7	1882.6	1863.8	1849.3	1833.4	1811.8	1782.9	1750.4	1710.6
40°	1990.2	1984.4	1972.1	1957.7	1940.4	1928.1	1912.2	1890.5	1862.3	1830.5	1792.3
37.5°	2049.4	2050.2	2037.2	2021.3	2006.1	1994.5	1980.1	1959.9	1935.3	1904.2	1865.9
35°	2105.8	2102.2	2091.3	2077.6	2063.9	2050.9	2035.7	2018.4	1998.1	1969.2	1933.1
32.5°	2142.6	2147.7	2134.7	2120.2	2112.3	2102.2	2086.3	2068.2	2050.2	2021.3	1988.8
30°	2183.1	2178.7	2168.6	2156.3	2150.6	2144.1	2130.3	2113.0	2092.1	2066.0	2035.7
27.5°	2211.2	2209.1	2196.8	2185.2	2182.4	2176.6	2165.7	2150.6	2129.6	2104.3	2076.2
25°	2223.5	2225.0	2213.4	2206.9	2206.9	2203.3	2194.6	2181.6	2160.7	2137.6	2110.1
22.5°	2229.3	2227.9	2219.9	2218.5	2222.1	2219.2	2215.6	2204.0	2185.2	2166.5	2143.3
20°	2232.9	2222.8	2215.6	2221.4	2225.7	2225.0	2222.1	2214.9	2206.2	2190.3	2170.1
17.5°	2225.0	2218.5	2209.8	2218.5	2227.9	2228.6	2225.7	2221.4	2219.2	2209.1	2191.0
15°	2205.5	2200.4	2201.9	2210.5	2221.4	2225.0	2227.1	2232.2	2229.3	2221.4	2205.5
12.5°	2192.5	2186.0	2192.5	2201.1	2206.9	2209.1	2226.4	2235.8	2235.8	2228.6	2218.5
10°	2188.9	2175.9	2184.5	2192.5	2195.4	2208.4	2222.8	2232.9	2238.0	2232.2	2219.2
7.5°	2181.6	2173.0	2176.6	2180.2	2196.8	2206.2	2214.1	2225.0	2232.2	2231.5	2219.9
5°	2178.0	2167.2	2168.6	2183.8	2195.4	2201.9	2204.7	2214.1	2225.0	2227.1	2218.5
2.5°	2168.6	2163.6	2174.4	2175.9	2184.5	2189.6	2192.5	2201.1	2214.9	2219.9	2216.3
0°	2163.6	2156.3	2149.1	2154.9	2169.3	2180.2	2184.5	2197.5	2213.4	2218.5	2210.5



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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°	20.2	19.5	18.8	18.1	18.8	18.8	18.8	18.1	18.8	18.1	18.1
85°	62.8	60.0	57.8	54.9	52.0	49.8	47.0	44.1	43.3	42.6	41.2
82.5°	108.4	104.7	101.1	96.8	92.5	87.4	82.4	76.6	75.1	73.7	71.5
80°	152.4	147.4	142.3	137.3	132.9	127.9	122.1	115.6	111.2	107.6	103.3
77.5°	198.7	191.4	184.2	175.5	170.5	165.4	159.6	153.1	146.6	140.9	134.4
75°	251.4	243.4	236.2	227.6	218.2	208.8	199.4	190.7	181.3	172.7	164.0
72.5°	309.9	298.3	286.8	276.0	264.4	252.8	240.6	229.0	217.4	205.9	193.6
70°	371.3	356.9	342.4	328.0	312.8	297.6	283.2	268.7	254.3	239.1	225.4
67.5°	443.5	426.9	408.2	387.9	365.5	346.0	327.2	309.9	292.6	275.2	257.9
65°	533.8	510.7	485.4	458.0	432.0	406.0	378.5	352.5	332.3	312.1	292.6
62.5°	645.1	612.6	577.2	541.8	510.0	476.1	444.3	410.3	378.5	349.6	325.8
60°	778.0	734.0	690.6	645.1	601.0	554.8	514.3	472.4	432.7	397.3	362.6
57.5°	924.7	873.4	821.4	765.7	705.8	651.6	596.7	541.8	494.8	447.9	408.9
55°	1073.5	1019.3	960.8	897.9	832.2	762.8	688.4	627.0	562.7	507.8	457.3
52.5°	1215.1	1158.7	1098.0	1040.2	961.5	882.0	800.4	719.5	644.4	574.3	512.9
50°	1341.5	1286.6	1228.1	1160.9	1087.9	1003.4	912.4	821.4	732.5	650.2	573.6
47.5°	1457.1	1403.6	1345.1	1277.9	1211.5	1117.5	1025.8	925.4	826.4	731.8	642.2
45°	1565.4	1511.2	1450.6	1386.3	1309.7	1225.9	1131.3	1030.1	923.9	817.8	714.4
42.5°	1663.7	1609.5	1548.1	1481.6	1405.8	1322.7	1231.0	1129.1	1022.2	906.6	793.2
40°	1749.6	1696.9	1637.7	1568.3	1497.5	1410.1	1319.8	1223.0	1112.5	996.2	871.2
37.5°	1824.8	1775.6	1717.1	1648.5	1573.4	1495.4	1402.2	1305.4	1205.7	1079.3	951.4
35°	1891.2	1845.7	1785.8	1720.7	1647.1	1564.7	1477.3	1382.7	1275.0	1156.6	1032.3
32.5°	1949.0	1902.8	1847.9	1782.9	1711.4	1634.1	1544.5	1449.1	1347.3	1226.6	1091.5
30°	1998.1	1953.4	1901.3	1839.9	1771.3	1694.7	1607.3	1511.2	1407.2	1287.3	1153.7
27.5°	2040.8	1998.1	1947.6	1890.5	1824.8	1751.1	1663.0	1566.2	1460.0	1344.4	1210.7
25°	2077.6	2036.4	1989.5	1935.3	1870.3	1798.0	1715.0	1613.8	1507.6	1391.3	1259.1
22.5°	2110.8	2071.1	2024.1	1971.4	1912.2	1839.9	1756.1	1655.7	1548.1	1433.2	1303.2
20°	2140.5	2103.6	2057.4	2003.2	1944.0	1871.0	1787.9	1692.6	1584.2	1471.5	1342.9
17.5°	2164.3	2131.8	2085.6	2028.5	1969.2	1898.5	1817.5	1730.1	1615.3	1504.0	1376.2
15°	2180.9	2149.1	2107.2	2049.4	1991.6	1921.6	1840.7	1750.4	1643.4	1530.0	1403.6
12.5°	2192.5	2158.5	2119.5	2066.0	2008.3	1938.9	1860.2	1771.3	1667.3	1553.1	1427.5
10°	2195.4	2164.3	2125.3	2077.6	2021.3	1954.1	1876.8	1788.6	1686.8	1571.2	1447.0
7.5°	2196.8	2167.2	2131.8	2086.3	2030.6	1965.6	1889.1	1802.4	1701.2	1586.4	1461.4
5°	2196.1	2167.9	2136.1	2092.1	2036.4	1972.1	1897.0	1811.8	1711.4	1596.5	1472.2
2.5°	2193.9	2168.6	2139.0	2096.4	2042.9	1979.4	1905.0	1822.6	1722.2	1605.2	1480.9
0°	2199.7	2178.0	2140.5	2094.9	2044.4	1979.4	1904.2	1824.0	1723.6	1604.4	1480.2



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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°	18.1	17.3	17.3	16.6	15.9	15.2	13.7	13.0	11.6	9.4	7.2
85°	39.0	36.8	34.7	33.2	31.8	30.3	28.2	26.0	23.1	18.8	14.4
82.5°	68.6	64.3	60.0	54.9	50.6	46.2	42.6	39.0	34.7	28.2	21.7
80°	98.2	91.7	85.2	78.0	71.5	64.3	57.8	52.0	46.2	37.6	28.9
77.5°	127.9	119.2	109.8	101.1	91.7	82.4	73.0	65.0	56.3	46.2	36.1
75°	155.3	145.2	136.5	124.3	112.7	100.4	88.1	77.3	66.5	54.2	43.3
72.5°	182.8	169.8	157.5	145.9	132.9	117.8	104.0	90.3	76.6	62.1	49.1
70°	210.2	194.3	179.2	165.4	151.0	135.8	119.2	103.3	86.7	69.3	54.2
67.5°	238.4	220.3	203.0	185.7	169.0	151.7	134.4	116.3	96.8	76.6	60.0
65°	269.5	247.1	226.1	206.6	187.1	168.3	148.8	129.3	107.6	84.5	65.0
62.5°	300.5	276.0	251.4	226.8	205.2	184.2	163.3	141.6	117.8	93.2	70.1
60°	333.7	305.6	277.4	249.9	223.2	200.1	177.0	153.9	128.6	101.1	75.1
57.5°	370.6	336.6	304.9	273.8	243.4	216.0	190.7	166.2	138.0	109.1	80.9
55°	412.5	370.6	333.0	298.3	265.1	231.9	204.4	179.2	148.8	117.0	87.4
52.5°	456.6	408.2	362.6	323.6	288.2	250.7	217.4	189.3	159.6	125.0	93.2
50°	507.8	446.4	395.9	348.2	308.5	269.5	231.2	200.8	170.5	134.4	99.0
47.5°	560.6	492.7	429.1	377.1	330.1	287.5	247.1	210.9	180.6	143.0	104.7
45°	622.0	536.7	466.7	405.3	351.1	306.3	263.0	221.8	189.3	151.7	110.5
42.5°	681.2	588.8	505.7	436.3	374.9	324.4	277.4	233.3	197.9	160.4	115.6
40°	751.3	640.8	543.2	465.9	398.8	341.7	291.8	245.6	205.9	168.3	120.6
37.5°	818.5	693.5	588.8	498.5	421.9	359.0	306.3	257.2	213.1	176.3	127.1
35°	884.9	752.0	632.1	528.8	445.7	378.5	320.7	268.0	220.3	182.8	132.9
32.5°	948.5	806.9	676.2	562.7	471.7	396.6	333.7	278.1	227.6	188.5	138.7
30°	1007.7	858.9	719.5	597.4	495.6	413.2	346.0	288.2	236.2	193.6	144.5
27.5°	1061.9	909.5	762.8	629.9	518.0	428.4	359.0	297.6	243.4	198.7	149.5
25°	1111.0	955.0	802.6	659.5	538.2	445.0	371.3	307.0	249.9	203.0	153.9
22.5°	1157.3	996.9	838.7	689.2	562.7	461.6	382.9	315.7	256.4	207.3	158.2
20°	1197.7	1035.2	873.4	718.8	584.4	476.8	393.0	323.6	262.2	210.2	162.5
17.5°	1230.2	1069.1	904.4	744.8	603.2	489.8	401.7	330.9	267.3	213.8	165.4
15°	1259.1	1098.0	930.4	767.2	619.8	500.6	409.6	336.6	271.6	216.0	169.0
12.5°	1283.7	1122.6	952.8	786.7	634.3	510.0	416.1	341.0	275.2	218.2	171.2
10°	1303.9	1142.1	971.6	801.9	645.8	517.2	421.2	345.3	278.1	220.3	173.4
7.5°	1319.1	1156.6	985.3	814.9	655.2	522.3	425.5	348.2	281.0	221.8	177.0
5°	1330.6	1168.8	996.2	823.5	662.4	529.5	430.5	351.8	283.9	223.2	177.0
2.5°	1339.3	1178.9	1004.9	830.8	668.2	528.1	430.5	351.1	283.9	223.2	176.3
0°	1337.9	1179.7	1004.1	830.8	668.2	526.6	430.5	350.4	283.9	223.2	176.3



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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	3.6	1.4	0.0
85°	10.8	7.2	3.6	0.0
82.5°	15.9	10.1	5.1	0.0
80°	20.9	13.7	6.5	0.0
77.5°	26.7	17.3	8.7	0.0
75°	31.8	20.2	10.1	0.0
72.5°	36.8	23.8	11.6	0.0
70°	41.2	26.7	13.0	0.0
67.5°	45.5	30.3	15.2	0.0
65°	49.1	33.2	16.6	0.0
62.5°	52.0	36.8	18.1	0.0
60°	55.6	39.7	19.5	0.0
57.5°	58.5	41.9	20.9	0.0
55°	61.4	43.3	22.4	0.0
52.5°	64.3	45.5	23.8	0.0
50°	67.2	47.7	25.3	0.0
47.5°	70.1	49.1	26.0	0.0
45°	74.4	51.3	27.5	0.0
42.5°	78.0	52.7	28.9	0.0
40°	81.6	54.2	29.6	0.0
37.5°	85.2	55.6	31.1	0.0
35°	88.9	57.1	31.8	0.0
32.5°	91.7	58.5	32.5	0.0
30°	94.6	60.0	33.2	0.0
27.5°	97.5	60.7	34.0	0.0
25°	99.7	62.1	34.7	0.0
22.5°	101.9	62.8	35.4	0.0
20°	103.3	63.6	36.1	0.0
17.5°	105.5	64.3	36.8	0.0
15°	106.2	65.0	38.3	0.0
12.5°	107.6	65.7	38.3	0.0
10°	108.4	66.5	38.3	0.0
7.5°	109.8	66.5	38.3	0.0
5°	109.1	66.5	38.3	0.0
2.5°	109.1	66.5	38.3	0.0
0°	108.4	66.5	38.3	0.0

(END OF REPORT)