

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: P628412

Luminaire Tested: **IFLD-S-SA2B-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

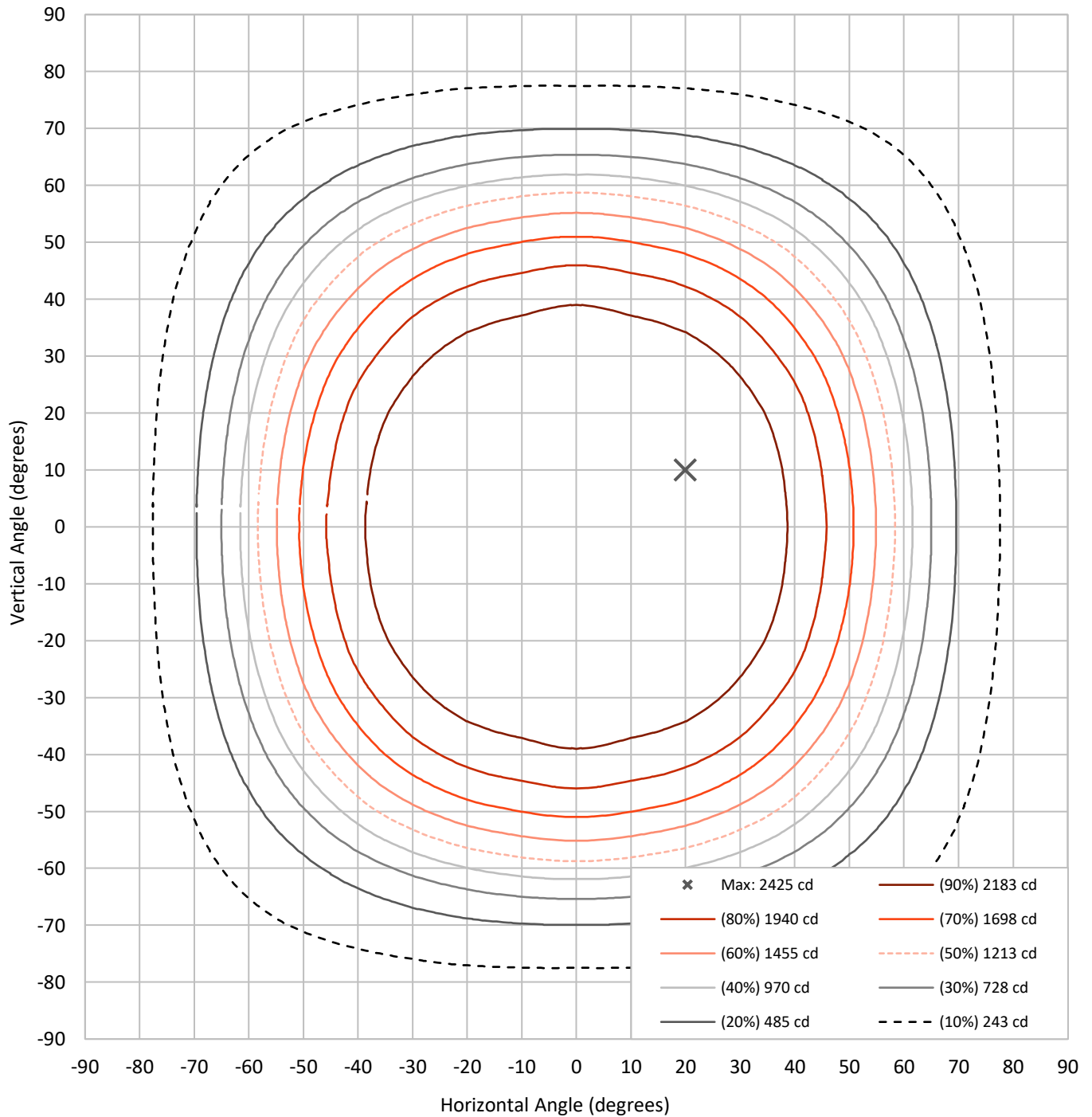
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7439.4 lumens	Max Intensity:	2425 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	90.3 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:	4565 lumens	Field Lumens:	5472.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	82.4		
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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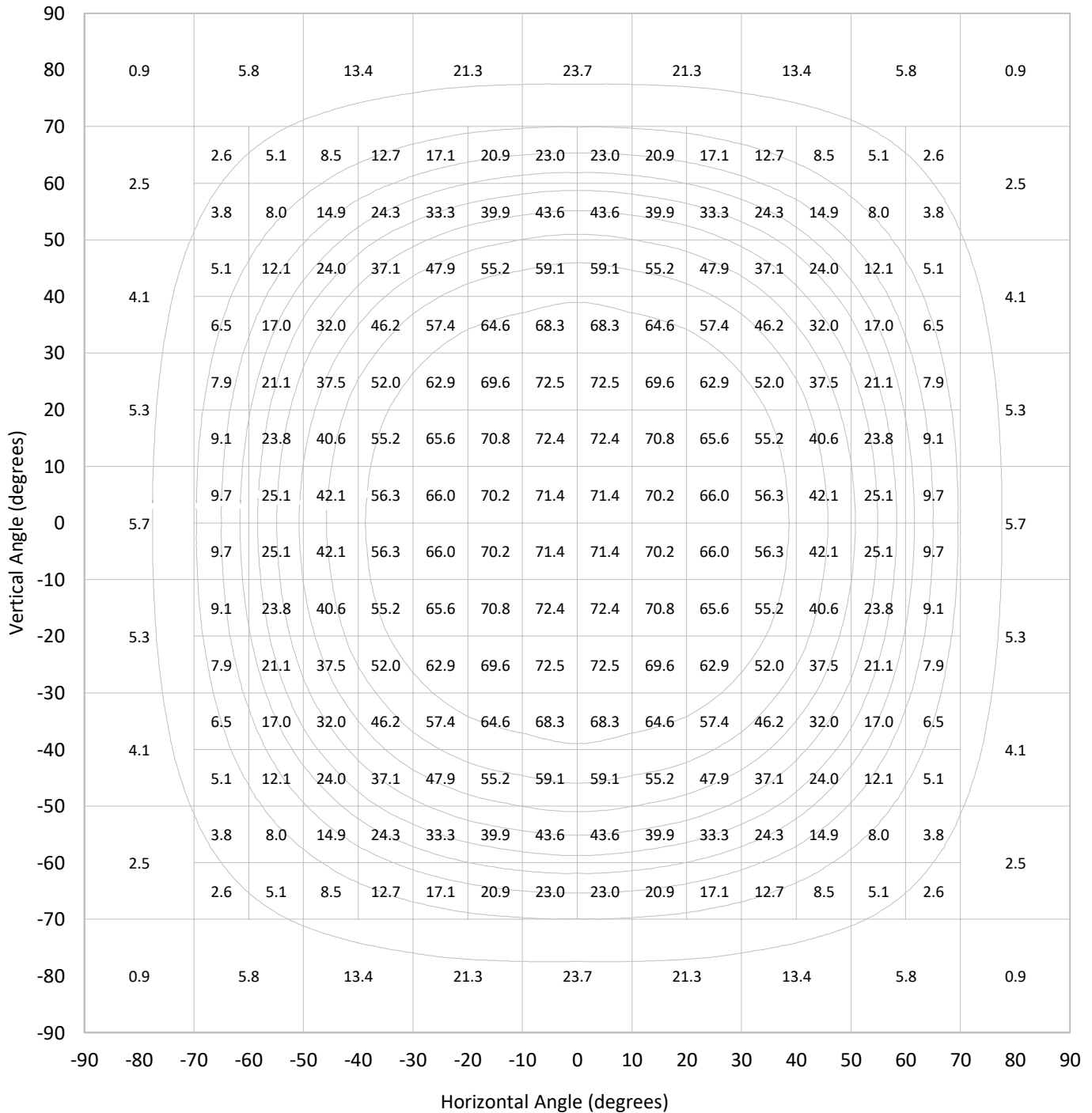
Iso-Candela Plot





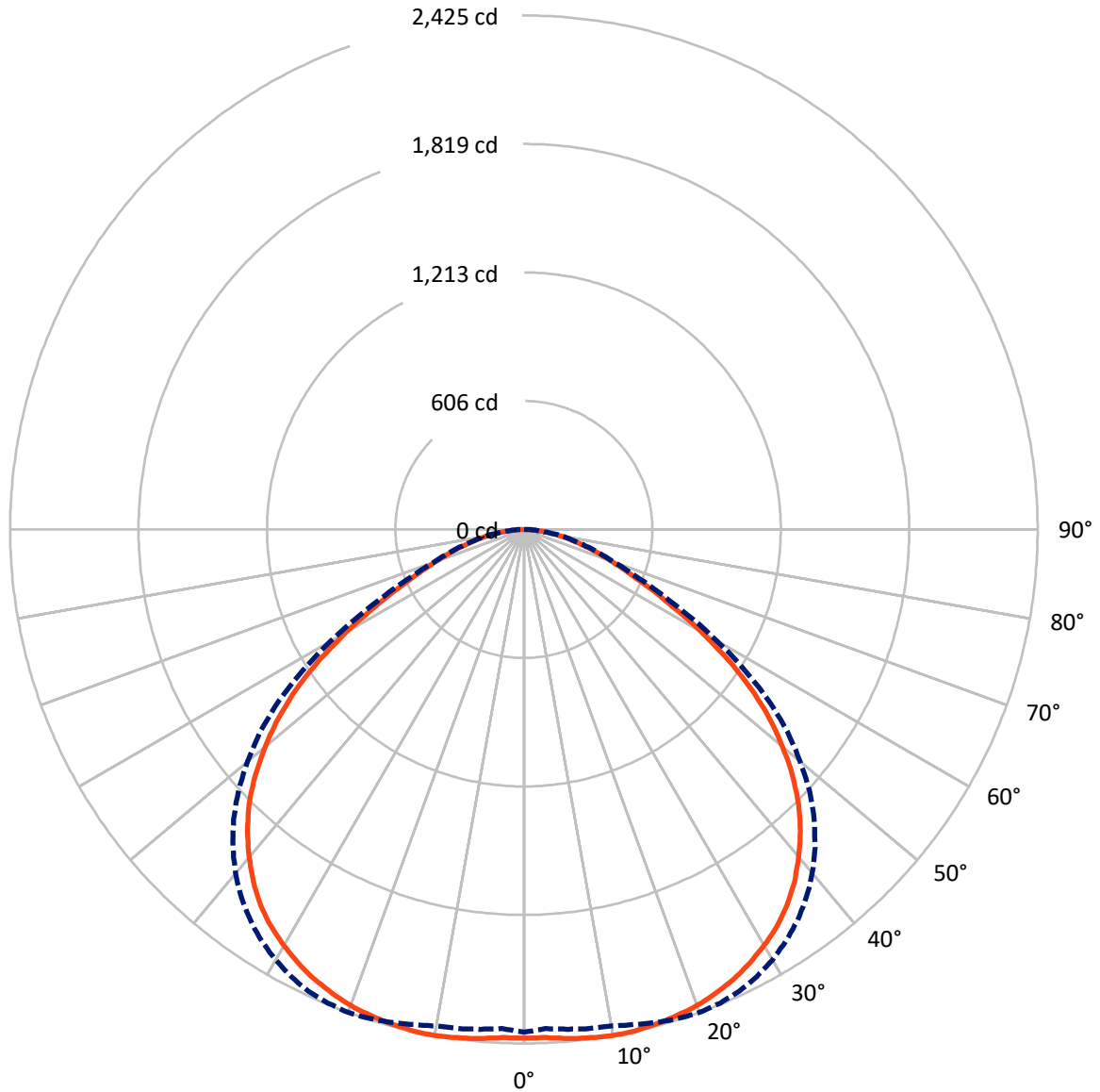
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Lumen Table



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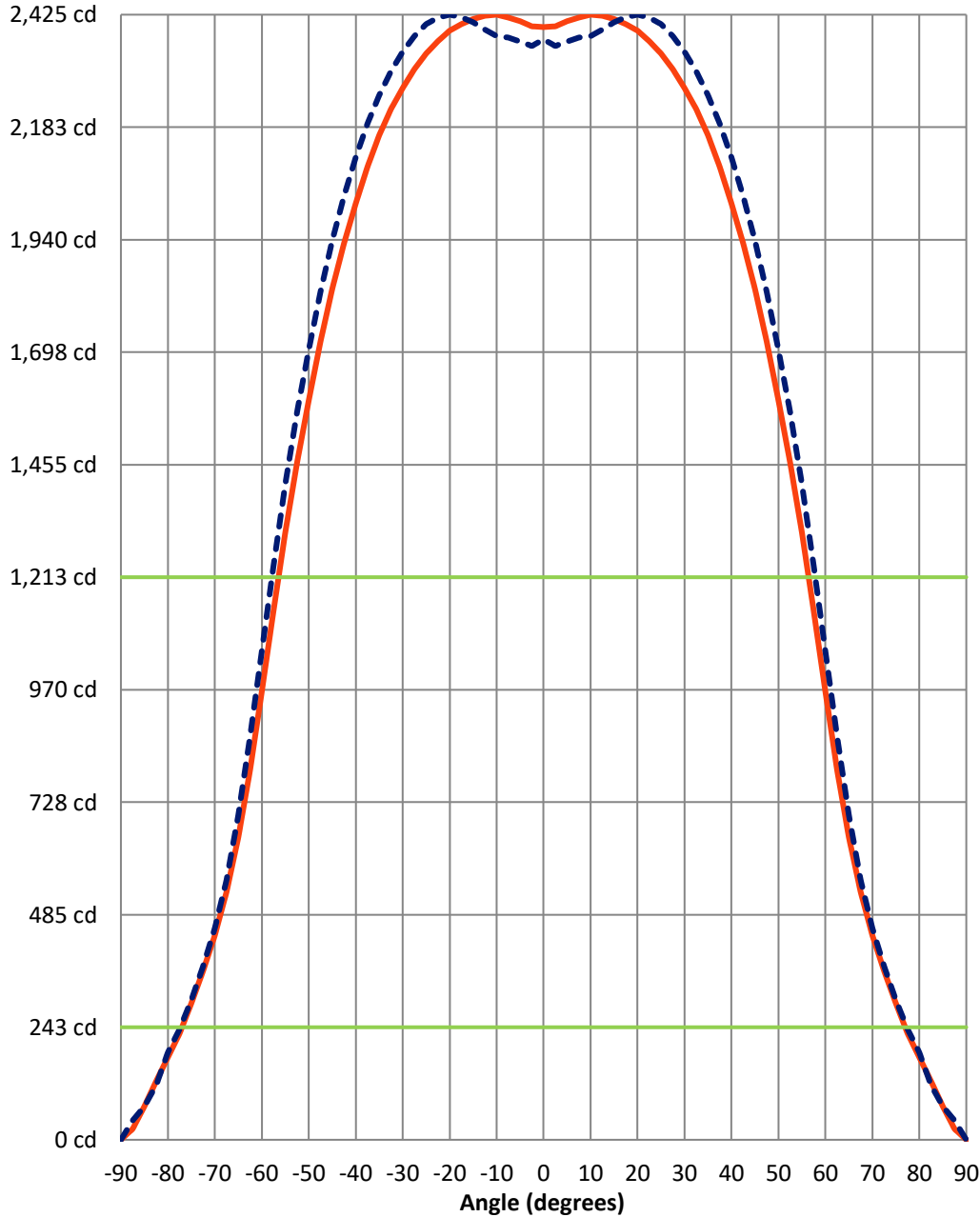
Luminous Intensity Polar Plot



— 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: 4565
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 5472.7
Efficiency: 73.6%

Spill:
Lumens: 1966.8
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°	19.6	21.1	21.9	22.7	23.5	24.3	25.0	24.3	23.5	23.5	22.7
85°	52.4	54.0	54.8	60.3	65.8	68.9	72.8	72.0	72.0	71.2	70.4
82.5°	104.9	109.6	113.5	119.0	122.1	126.8	129.9	127.6	126.0	122.9	120.5
80°	186.3	187.9	188.6	189.4	185.5	184.7	183.2	180.8	177.7	173.8	169.9
77.5°	237.2	238.7	240.3	238.7	238.0	237.2	234.8	232.5	229.3	226.2	221.5
75°	313.9	313.9	313.9	311.5	310.0	307.6	303.7	299.8	294.3	288.1	281.0
72.5°	395.3	394.5	393.7	389.0	385.1	380.4	374.9	370.2	364.0	356.9	347.5
70°	480.6	482.2	483.0	476.7	472.0	465.7	458.7	450.1	440.7	430.5	417.2
67.5°	598.0	596.5	594.9	586.3	580.0	571.4	561.2	548.7	534.6	519.0	500.2
65°	743.6	746.0	741.3	732.7	720.9	706.8	691.2	673.2	652.0	628.5	601.9
62.5°	919.7	923.6	918.2	907.2	892.3	873.6	851.6	825.8	796.8	764.0	731.1
60°	1120.1	1119.3	1109.2	1094.3	1074.7	1051.2	1027.0	998.8	965.9	927.6	887.6
57.5°	1304.1	1302.5	1290.0	1275.1	1255.5	1230.5	1204.7	1174.9	1140.5	1099.8	1053.6
55°	1469.2	1467.7	1455.1	1439.5	1419.1	1394.1	1370.6	1342.4	1308.8	1265.7	1216.4
52.5°	1615.6	1616.4	1605.4	1588.2	1566.3	1542.0	1519.3	1491.1	1459.0	1416.0	1368.2
50°	1750.2	1749.4	1737.7	1722.1	1701.7	1678.2	1655.5	1627.3	1593.7	1552.2	1506.0
47.5°	1875.5	1873.9	1860.6	1843.4	1822.2	1801.9	1780.8	1755.7	1720.5	1679.0	1632.8
45°	1980.4	1977.2	1963.9	1947.5	1927.1	1909.1	1890.3	1871.6	1834.0	1795.6	1751.8
42.5°	2070.4	2069.6	2056.3	2039.8	2019.5	2003.8	1986.6	1963.1	1931.8	1896.6	1853.6
40°	2156.5	2150.2	2136.9	2121.3	2102.5	2089.2	2071.9	2048.5	2017.9	1983.5	1942.0
37.5°	2220.7	2221.4	2207.4	2190.1	2173.7	2161.2	2145.5	2123.6	2097.0	2063.3	2021.8
35°	2281.7	2277.8	2266.1	2251.2	2236.3	2222.2	2205.8	2187.0	2165.1	2133.8	2094.6
32.5°	2321.6	2327.1	2313.0	2297.4	2288.8	2277.8	2260.6	2241.0	2221.4	2190.1	2154.9
30°	2365.5	2360.8	2349.8	2336.5	2330.3	2323.2	2308.3	2289.5	2266.8	2238.7	2205.8
27.5°	2396.0	2393.7	2380.3	2367.8	2364.7	2358.4	2346.7	2330.3	2307.6	2280.2	2249.6
25°	2409.3	2410.9	2398.3	2391.3	2391.3	2387.4	2378.0	2363.9	2341.2	2316.2	2286.4
22.5°	2415.6	2414.0	2405.4	2403.8	2407.7	2404.6	2400.7	2388.2	2367.8	2347.5	2322.4
20°	2419.5	2408.5	2400.7	2407.0	2411.7	2410.9	2407.7	2399.9	2390.5	2373.3	2351.4
17.5°	2410.9	2403.8	2394.4	2403.8	2414.0	2414.8	2411.7	2407.0	2404.6	2393.7	2374.1
15°	2389.7	2384.3	2385.8	2395.2	2407.0	2410.9	2413.2	2418.7	2415.6	2407.0	2389.7
12.5°	2375.6	2368.6	2375.6	2385.0	2391.3	2393.7	2412.4	2422.6	2422.6	2414.8	2403.8
10°	2371.7	2357.6	2367.0	2375.6	2378.8	2392.9	2408.5	2419.5	2425.0	2418.7	2404.6
7.5°	2363.9	2354.5	2358.4	2362.3	2380.3	2390.5	2399.1	2410.9	2418.7	2417.9	2405.4
5°	2360.0	2348.3	2349.8	2366.3	2378.8	2385.8	2389.0	2399.1	2410.9	2413.2	2403.8
2.5°	2349.8	2344.3	2356.1	2357.6	2367.0	2372.5	2375.6	2385.0	2399.9	2405.4	2401.5
0°	2344.3	2336.5	2328.7	2334.9	2350.6	2362.3	2367.0	2381.1	2398.3	2403.8	2395.2



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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°	21.9	21.1	20.4	19.6	20.4	20.4	20.4	19.6	20.4	19.6	19.6
85°	68.1	65.0	62.6	59.5	56.4	54.0	50.9	47.7	47.0	46.2	44.6
82.5°	117.4	113.5	109.6	104.9	100.2	94.7	89.2	83.0	81.4	79.8	77.5
80°	165.2	159.7	154.2	148.7	144.0	138.5	132.3	125.2	120.5	116.6	111.9
77.5°	215.3	207.4	199.6	190.2	184.7	179.3	173.0	165.9	158.9	152.6	145.6
75°	272.4	263.8	256.0	246.6	236.4	226.2	216.0	206.6	196.5	187.1	177.7
72.5°	335.8	323.3	310.8	299.0	286.5	274.0	260.7	248.1	235.6	223.1	209.8
70°	402.3	386.7	371.0	355.4	338.9	322.5	306.8	291.2	275.5	259.1	244.2
67.5°	480.6	462.6	442.3	420.3	396.1	374.9	354.6	335.8	317.0	298.2	279.4
65°	578.5	553.4	526.0	496.3	468.1	439.9	410.2	382.0	360.1	338.1	317.0
62.5°	699.0	663.8	625.4	587.1	552.6	515.8	481.4	444.6	410.2	378.9	353.0
60°	843.0	795.3	748.3	699.0	651.2	601.2	557.3	511.9	468.9	430.5	392.9
57.5°	1001.9	946.3	890.0	829.7	764.7	706.0	646.6	587.1	536.2	485.3	443.0
55°	1163.2	1104.5	1041.1	973.0	901.7	826.6	746.0	679.4	609.8	550.3	495.5
52.5°	1316.6	1255.5	1189.8	1127.2	1041.8	955.7	867.3	779.6	698.2	622.3	555.8
50°	1453.6	1394.1	1330.7	1257.9	1178.8	1087.2	988.6	890.0	793.7	704.5	621.5
47.5°	1578.8	1520.9	1457.5	1384.7	1312.7	1210.9	1111.5	1002.7	895.5	792.9	695.9
45°	1696.2	1637.5	1571.8	1502.1	1419.1	1328.3	1225.8	1116.2	1001.1	886.1	774.1
42.5°	1802.7	1744.0	1677.4	1605.4	1523.2	1433.2	1333.8	1223.4	1107.6	982.4	859.5
40°	1895.8	1838.7	1774.5	1699.4	1622.6	1527.9	1430.1	1325.2	1205.4	1079.4	944.0
37.5°	1977.2	1924.0	1860.6	1786.2	1704.8	1620.3	1519.3	1414.4	1306.4	1169.4	1030.9
35°	2049.2	1999.9	1935.0	1864.5	1784.7	1695.4	1600.7	1498.2	1381.6	1253.2	1118.6
32.5°	2111.9	2061.8	2002.3	1931.8	1854.3	1770.6	1673.5	1570.2	1459.8	1329.1	1182.7
30°	2165.1	2116.6	2060.2	1993.7	1919.3	1836.3	1741.6	1637.5	1524.8	1394.9	1250.1
27.5°	2211.3	2165.1	2110.3	2048.5	1977.2	1897.4	1801.9	1697.0	1581.9	1456.7	1311.9
25°	2251.2	2206.6	2155.7	2097.0	2026.5	1948.3	1858.3	1748.7	1633.6	1507.6	1364.3
22.5°	2287.2	2244.1	2193.3	2136.1	2071.9	1993.7	1902.9	1794.1	1677.4	1553.0	1412.1
20°	2319.3	2279.4	2229.3	2170.6	2106.4	2027.3	1937.3	1834.0	1716.6	1594.5	1455.1
17.5°	2345.1	2309.9	2259.8	2198.0	2133.8	2057.1	1969.4	1874.7	1750.2	1629.7	1491.1
15°	2363.1	2328.7	2283.3	2220.7	2158.0	2082.1	1994.4	1896.6	1780.8	1657.9	1520.9
12.5°	2375.6	2338.9	2296.6	2238.7	2176.0	2100.9	2015.6	1919.3	1806.6	1682.9	1546.7
10°	2378.8	2345.1	2302.9	2251.2	2190.1	2117.3	2033.6	1938.1	1827.7	1702.5	1567.9
7.5°	2380.3	2348.3	2309.9	2260.6	2200.3	2129.9	2046.9	1953.0	1843.4	1718.9	1583.5
5°	2379.6	2349.0	2314.6	2266.8	2206.6	2136.9	2055.5	1963.1	1854.3	1729.9	1595.2
2.5°	2377.2	2349.8	2317.7	2271.5	2213.6	2144.7	2064.1	1974.9	1866.1	1739.3	1604.6
0°	2383.5	2360.0	2319.3	2270.0	2215.2	2144.7	2063.3	1976.4	1867.6	1738.5	1603.9



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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°	19.6	18.8	18.8	18.0	17.2	16.4	14.9	14.1	12.5	10.2	7.8
85°	42.3	39.9	37.6	36.0	34.4	32.9	30.5	28.2	25.0	20.4	15.7
82.5°	74.4	69.7	65.0	59.5	54.8	50.1	46.2	42.3	37.6	30.5	23.5
80°	106.5	99.4	92.4	84.5	77.5	69.7	62.6	56.4	50.1	40.7	31.3
77.5°	138.5	129.2	119.0	109.6	99.4	89.2	79.1	70.4	61.1	50.1	39.1
75°	168.3	157.3	147.9	134.6	122.1	108.8	95.5	83.8	72.0	58.7	47.0
72.5°	198.0	183.9	170.6	158.1	144.0	127.6	112.7	97.8	83.0	67.3	53.2
70°	227.8	210.6	194.1	179.3	163.6	147.2	129.2	111.9	93.9	75.1	58.7
67.5°	258.3	238.7	220.0	201.2	183.2	164.4	145.6	126.0	104.9	83.0	65.0
65°	292.0	267.7	245.0	223.9	202.7	182.4	161.2	140.1	116.6	91.6	70.4
62.5°	325.6	299.0	272.4	245.8	222.3	199.6	176.9	153.4	127.6	101.0	75.9
60°	361.6	331.1	300.6	270.8	241.9	216.8	191.8	166.7	139.3	109.6	81.4
57.5°	401.6	364.8	330.3	296.7	263.8	234.0	206.6	180.0	149.5	118.2	87.7
55°	447.0	401.6	360.8	323.3	287.3	251.3	221.5	194.1	161.2	126.8	94.7
52.5°	494.7	442.3	392.9	350.7	312.3	271.6	235.6	205.1	173.0	135.4	101.0
50°	550.3	483.7	428.9	377.3	334.2	292.0	250.5	217.6	184.7	145.6	107.2
47.5°	607.4	533.8	465.0	408.6	357.7	311.5	267.7	228.6	195.7	155.0	113.5
45°	673.9	581.6	505.7	439.1	380.4	331.9	284.9	240.3	205.1	164.4	119.8
42.5°	738.1	637.9	547.9	472.8	406.2	351.5	300.6	252.8	214.5	173.8	125.2
40°	814.1	694.3	588.6	504.9	432.1	370.2	316.2	266.1	223.1	182.4	130.7
37.5°	886.9	751.4	637.9	540.1	457.1	389.0	331.9	278.7	230.9	191.0	137.8
35°	958.9	814.8	684.9	573.0	483.0	410.2	347.5	290.4	238.7	198.0	144.0
32.5°	1027.8	874.3	732.7	609.8	511.1	429.7	361.6	301.4	246.6	204.3	150.3
30°	1091.9	930.7	779.6	647.3	537.0	447.7	374.9	312.3	256.0	209.8	156.6
27.5°	1150.6	985.5	826.6	682.6	561.2	464.2	389.0	322.5	263.8	215.3	162.0
25°	1203.9	1034.8	869.6	714.7	583.1	482.2	402.3	332.7	270.8	220.0	166.7
22.5°	1254.0	1080.2	908.8	746.7	609.8	500.2	414.9	342.1	277.9	224.6	171.4
20°	1297.8	1121.7	946.3	778.8	633.2	516.6	425.8	350.7	284.1	227.8	176.1
17.5°	1333.0	1158.5	980.0	807.0	653.6	530.7	435.2	358.5	289.6	231.7	179.3
15°	1364.3	1189.8	1008.2	831.3	671.6	542.4	443.8	364.8	294.3	234.0	183.2
12.5°	1390.9	1216.4	1032.4	852.4	687.3	552.6	450.9	369.5	298.2	236.4	185.5
10°	1412.9	1237.5	1052.8	868.9	699.8	560.4	456.3	374.2	301.4	238.7	187.9
7.5°	1429.3	1253.2	1067.7	882.9	710.0	565.9	461.0	377.3	304.5	240.3	191.8
5°	1441.8	1266.5	1079.4	892.3	717.8	573.8	466.5	381.2	307.6	241.9	191.8
2.5°	1451.2	1277.4	1088.8	900.2	724.0	572.2	466.5	380.4	307.6	241.9	191.0
0°	1449.7	1278.2	1088.0	900.2	724.0	570.6	466.5	379.6	307.6	241.9	191.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.5	3.9	1.6	0.0
85°	11.7	7.8	3.9	0.0
82.5°	17.2	11.0	5.5	0.0
80°	22.7	14.9	7.0	0.0
77.5°	29.0	18.8	9.4	0.0
75°	34.4	21.9	11.0	0.0
72.5°	39.9	25.8	12.5	0.0
70°	44.6	29.0	14.1	0.0
67.5°	49.3	32.9	16.4	0.0
65°	53.2	36.0	18.0	0.0
62.5°	56.4	39.9	19.6	0.0
60°	60.3	43.1	21.1	0.0
57.5°	63.4	45.4	22.7	0.0
55°	66.5	47.0	24.3	0.0
52.5°	69.7	49.3	25.8	0.0
50°	72.8	51.7	27.4	0.0
47.5°	75.9	53.2	28.2	0.0
45°	80.6	55.6	29.7	0.0
42.5°	84.5	57.1	31.3	0.0
40°	88.5	58.7	32.1	0.0
37.5°	92.4	60.3	33.7	0.0
35°	96.3	61.8	34.4	0.0
32.5°	99.4	63.4	35.2	0.0
30°	102.5	65.0	36.0	0.0
27.5°	105.7	65.8	36.8	0.0
25°	108.0	67.3	37.6	0.0
22.5°	110.4	68.1	38.4	0.0
20°	111.9	68.9	39.1	0.0
17.5°	114.3	69.7	39.9	0.0
15°	115.1	70.4	41.5	0.0
12.5°	116.6	71.2	41.5	0.0
10°	117.4	72.0	41.5	0.0
7.5°	119.0	72.0	41.5	0.0
5°	118.2	72.0	41.5	0.0
2.5°	118.2	72.0	41.5	0.0
0°	117.4	72.0	41.5	0.0

(END OF REPORT)