

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: P628150

Luminaire Tested: **IFLD-S-SA2A-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628150
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

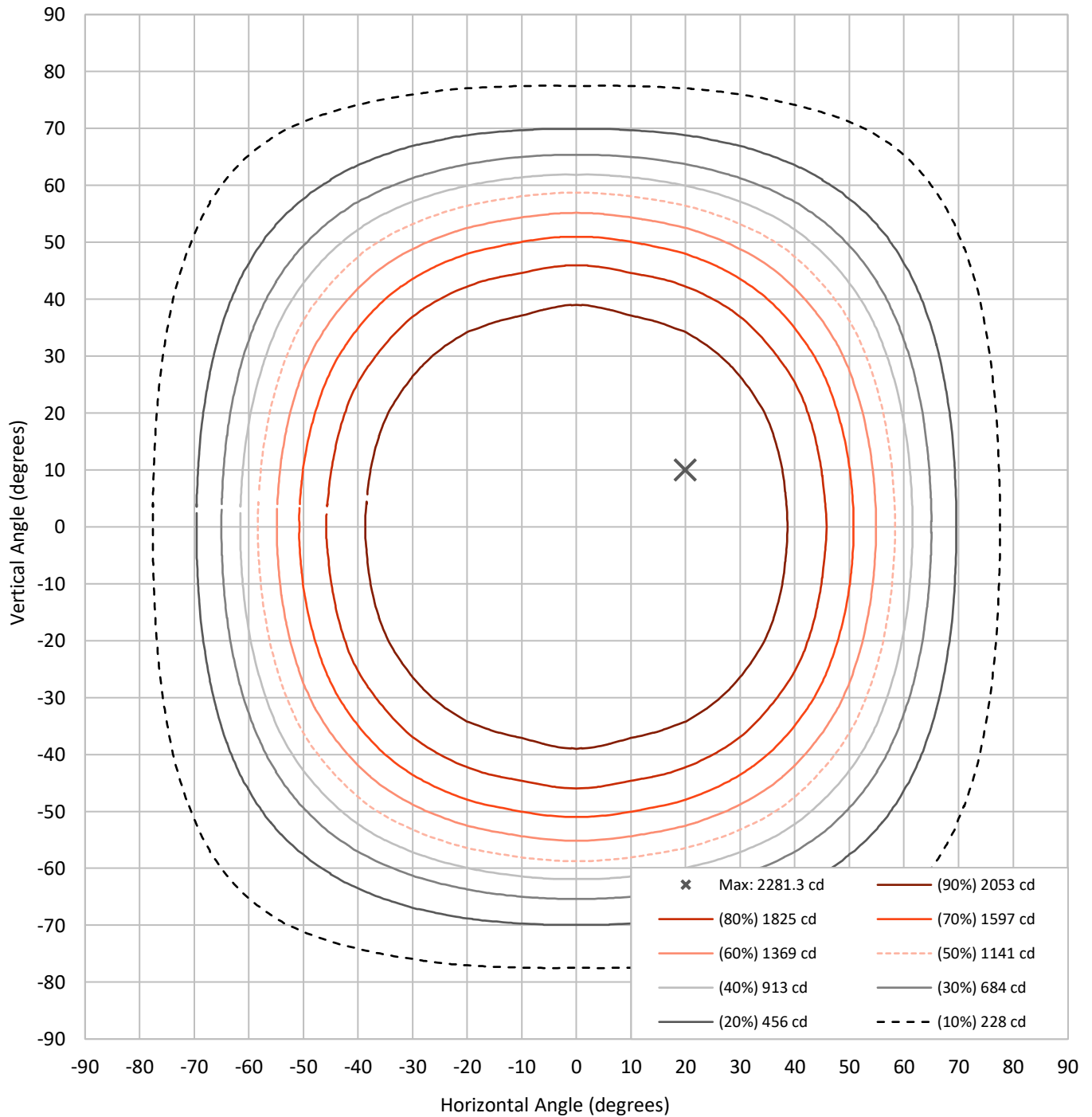
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	6998.8 lumens	Max Intensity:	2281.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	109.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	4294.6 lumens	Field Lumens:	5148.5 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



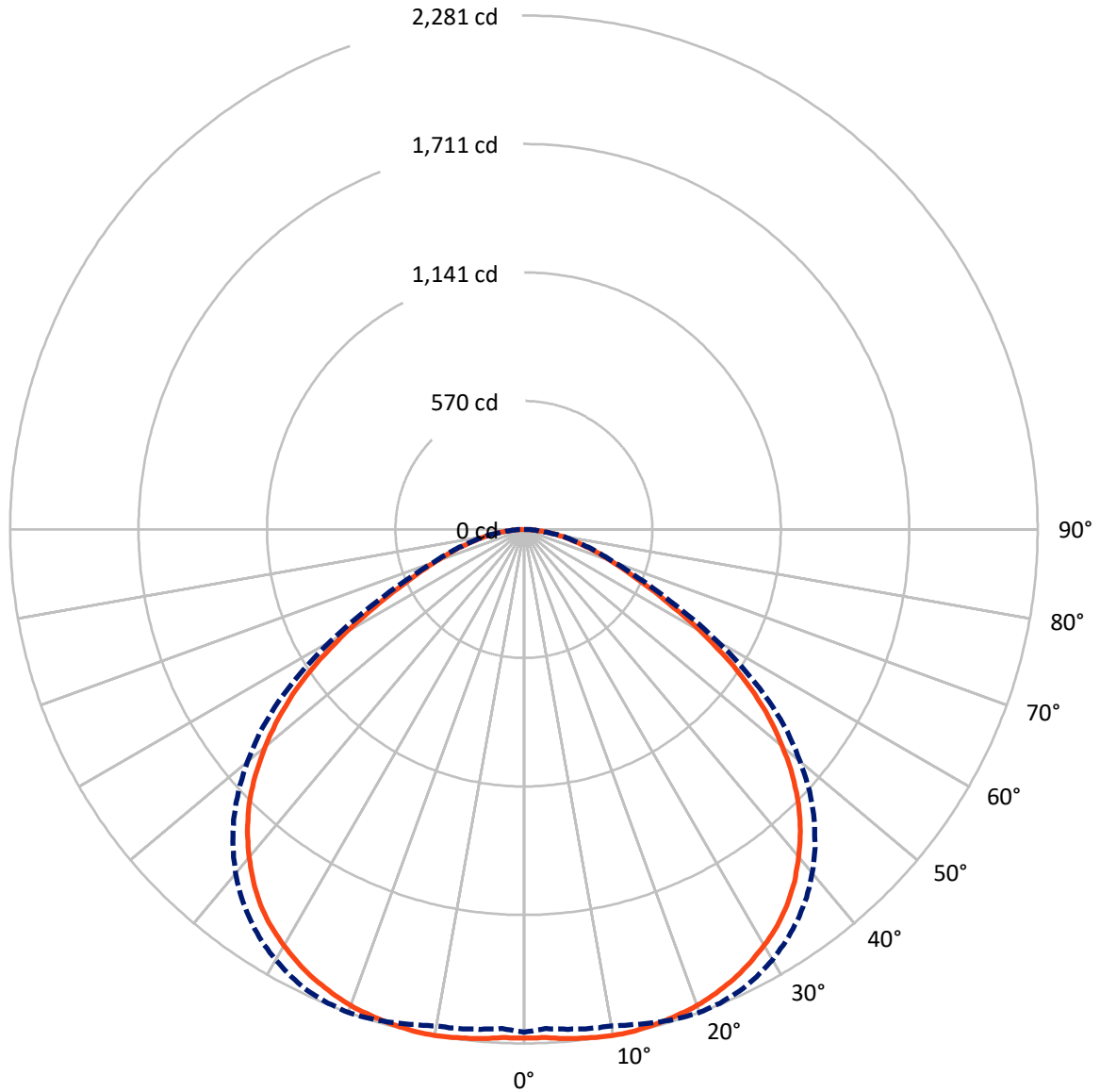
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Iso-Candela Plot



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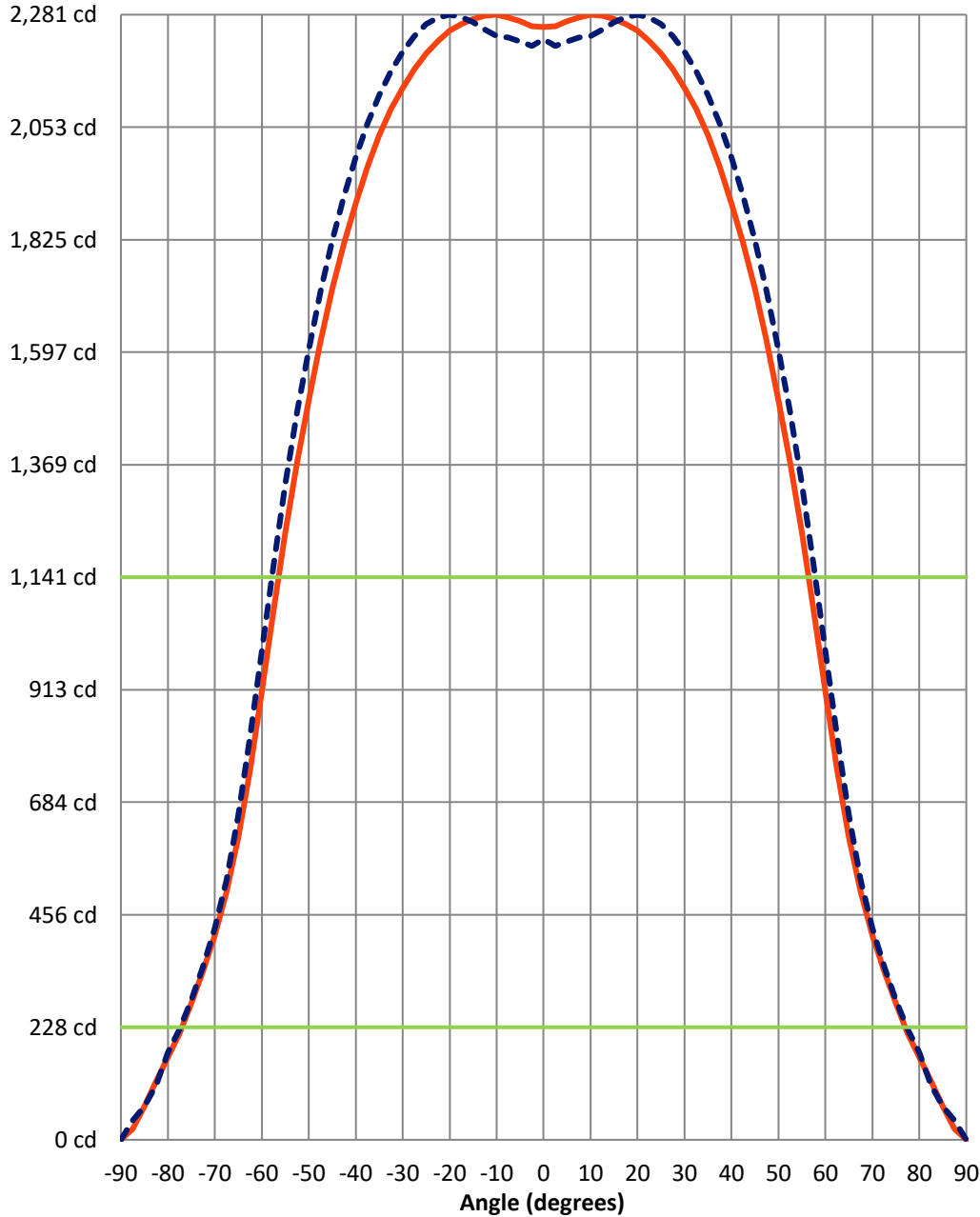
Luminous Intensity Polar Plot



— 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: 4294.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 5148.5
 Efficiency: 73.6%

Spill:
 Lumens: 1850.3
 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	19.9	20.6	21.4	22.1	22.8	23.6	22.8	22.1	22.1	21.4
85°	49.3	50.8	51.5	56.7	61.9	64.8	68.5	67.7	67.7	67.0	66.3
82.5°	98.7	103.1	106.8	111.9	114.9	119.3	122.2	120.0	118.6	115.6	113.4
80°	175.3	176.7	177.5	178.2	174.5	173.8	172.3	170.1	167.2	163.5	159.8
77.5°	223.1	224.6	226.1	224.6	223.9	223.1	220.9	218.7	215.8	212.8	208.4
75°	295.3	295.3	295.3	293.1	291.6	289.4	285.7	282.0	276.9	271.0	264.4
72.5°	371.9	371.1	370.4	366.0	362.3	357.9	352.7	348.3	342.4	335.8	327.0
70°	452.1	453.6	454.4	448.5	444.0	438.2	431.5	423.4	414.6	405.0	392.5
67.5°	562.6	561.1	559.7	551.6	545.7	537.6	528.0	516.2	503.0	488.2	470.6
65°	699.6	701.8	697.4	689.3	678.2	665.0	650.2	633.3	613.4	591.3	566.3
62.5°	865.3	868.9	863.8	853.5	839.5	821.8	801.2	776.9	749.6	718.7	687.8
60°	1053.8	1053.0	1043.5	1029.5	1011.1	989.0	966.1	939.6	908.7	872.6	835.1
57.5°	1226.8	1225.4	1213.6	1199.6	1181.2	1157.6	1133.3	1105.3	1072.9	1034.6	991.2
55°	1382.2	1380.7	1368.9	1354.2	1335.1	1311.5	1289.4	1262.9	1231.2	1190.7	1144.4
52.5°	1519.9	1520.6	1510.3	1494.1	1473.5	1450.7	1429.3	1402.8	1372.6	1332.1	1287.2
50°	1646.6	1645.8	1634.8	1620.1	1600.9	1578.8	1557.5	1531.0	1499.3	1460.3	1416.8
47.5°	1764.4	1762.9	1750.4	1734.2	1714.3	1695.2	1675.3	1651.7	1618.6	1579.6	1536.1
45°	1863.1	1860.1	1847.6	1832.1	1813.0	1796.1	1778.4	1760.7	1725.4	1689.3	1648.0
42.5°	1947.8	1947.0	1934.5	1919.0	1899.9	1885.2	1869.0	1846.9	1817.4	1784.3	1743.8
40°	2028.8	2022.9	2010.3	1995.6	1977.9	1965.4	1949.2	1927.1	1898.4	1866.0	1827.0
37.5°	2089.1	2089.9	2076.6	2060.4	2045.0	2033.2	2018.4	1997.8	1972.8	1941.1	1902.1
35°	2146.6	2142.9	2131.8	2117.9	2103.9	2090.6	2075.1	2057.5	2036.9	2007.4	1970.6
32.5°	2184.1	2189.3	2176.0	2161.3	2153.2	2142.9	2126.7	2108.3	2089.9	2060.4	2027.3
30°	2225.4	2221.0	2210.6	2198.1	2192.2	2185.6	2171.6	2153.9	2132.6	2106.1	2075.1
27.5°	2254.1	2251.9	2239.4	2227.6	2224.6	2218.7	2207.7	2192.2	2170.9	2145.1	2116.4
25°	2266.6	2268.1	2256.3	2249.7	2249.7	2246.0	2237.2	2223.9	2202.5	2179.0	2151.0
22.5°	2272.5	2271.0	2262.9	2261.5	2265.1	2262.2	2258.5	2246.7	2227.6	2208.4	2184.9
20°	2276.2	2265.9	2258.5	2264.4	2268.8	2268.1	2265.1	2257.8	2248.9	2232.7	2212.1
17.5°	2268.1	2261.5	2252.6	2261.5	2271.0	2271.8	2268.8	2264.4	2262.2	2251.9	2233.5
15°	2248.2	2243.0	2244.5	2253.4	2264.4	2268.1	2270.3	2275.4	2272.5	2264.4	2248.2
12.5°	2234.9	2228.3	2234.9	2243.8	2249.7	2251.9	2269.6	2279.1	2279.1	2271.8	2261.5
10°	2231.3	2218.0	2226.8	2234.9	2237.9	2251.1	2265.9	2276.2	2281.3	2275.4	2262.2
7.5°	2223.9	2215.1	2218.7	2222.4	2239.4	2248.9	2257.0	2268.1	2275.4	2274.7	2262.9
5°	2220.2	2209.2	2210.6	2226.1	2237.9	2244.5	2247.5	2257.0	2268.1	2270.3	2261.5
2.5°	2210.6	2205.5	2216.5	2218.0	2226.8	2232.0	2234.9	2243.8	2257.8	2262.9	2259.2
0°	2205.5	2198.1	2190.8	2196.7	2211.4	2222.4	2226.8	2240.1	2256.3	2261.5	2253.4



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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	19.9	19.1	18.4	19.1	19.1	19.1	18.4	19.1	18.4	18.4
85°	64.1	61.1	58.9	56.0	53.0	50.8	47.9	44.9	44.2	43.4	42.0
82.5°	110.5	106.8	103.1	98.7	94.3	89.1	83.9	78.1	76.6	75.1	72.9
80°	155.4	150.2	145.1	139.9	135.5	130.3	124.4	117.8	113.4	109.7	105.3
77.5°	202.5	195.1	187.8	178.9	173.8	168.6	162.7	156.1	149.5	143.6	137.0
75°	256.3	248.2	240.8	232.0	222.4	212.8	203.2	194.4	184.8	176.0	167.2
72.5°	315.9	304.1	292.3	281.3	269.5	257.7	245.2	233.4	221.7	209.9	197.4
70°	378.5	363.8	349.0	334.3	318.9	303.4	288.7	273.9	259.2	243.7	229.8
67.5°	452.1	435.2	416.1	395.4	372.6	352.7	333.6	315.9	298.2	280.6	262.9
65°	544.2	520.6	494.9	466.9	440.4	413.9	385.9	359.4	338.7	318.1	298.2
62.5°	657.6	624.5	588.4	552.3	519.9	485.3	452.9	418.3	385.9	356.4	332.1
60°	793.1	748.2	704.0	657.6	612.7	565.5	524.3	481.6	441.1	405.0	369.7
57.5°	942.6	890.3	837.3	780.6	719.5	664.2	608.3	552.3	504.4	456.6	416.8
55°	1094.3	1039.0	979.4	915.3	848.3	777.6	701.8	639.2	573.6	517.7	466.1
52.5°	1238.6	1181.2	1119.3	1060.4	980.1	899.1	815.9	733.4	656.9	585.4	522.8
50°	1367.5	1311.5	1251.9	1183.4	1109.0	1022.8	930.1	837.3	746.7	662.8	584.7
47.5°	1485.3	1430.8	1371.2	1302.7	1234.9	1139.2	1045.7	943.3	842.4	746.0	654.7
45°	1595.8	1540.5	1478.7	1413.1	1335.1	1249.7	1153.2	1050.1	941.8	833.6	728.3
42.5°	1695.9	1640.7	1578.1	1510.3	1433.0	1348.3	1254.8	1151.0	1042.0	924.2	808.6
40°	1783.5	1729.8	1669.4	1598.7	1526.5	1437.4	1345.4	1246.7	1134.0	1015.5	888.1
37.5°	1860.1	1810.0	1750.4	1680.4	1603.9	1524.3	1429.3	1330.7	1229.0	1100.2	969.8
35°	1927.9	1881.5	1820.4	1754.1	1679.0	1595.0	1505.9	1409.5	1299.7	1179.0	1052.3
32.5°	1986.8	1939.7	1883.7	1817.4	1744.5	1665.7	1574.4	1477.2	1373.4	1250.4	1112.7
30°	2036.9	1991.2	1938.2	1875.6	1805.6	1727.6	1638.5	1540.5	1434.5	1312.2	1176.0
27.5°	2080.3	2036.9	1985.3	1927.1	1860.1	1785.0	1695.2	1596.5	1488.2	1370.4	1234.2
25°	2117.9	2075.9	2028.0	1972.8	1906.5	1832.9	1748.2	1645.1	1536.8	1418.3	1283.5
22.5°	2151.7	2111.2	2063.4	2009.6	1949.2	1875.6	1790.2	1687.8	1578.1	1461.0	1328.4
20°	2181.9	2144.4	2097.2	2042.0	1981.6	1907.3	1822.6	1725.4	1614.9	1500.0	1368.9
17.5°	2206.2	2173.1	2126.0	2067.8	2007.4	1935.2	1852.8	1763.7	1646.6	1533.2	1402.8
15°	2223.2	2190.8	2148.0	2089.1	2030.2	1958.8	1876.3	1784.3	1675.3	1559.7	1430.8
12.5°	2234.9	2200.3	2160.6	2106.1	2047.2	1976.5	1896.2	1805.6	1699.6	1583.2	1455.1
10°	2237.9	2206.2	2166.5	2117.9	2060.4	1991.9	1913.1	1823.3	1719.5	1601.6	1475.0
7.5°	2239.4	2209.2	2173.1	2126.7	2070.0	2003.7	1925.7	1837.3	1734.2	1617.1	1489.7
5°	2238.6	2209.9	2177.5	2132.6	2075.9	2010.3	1933.8	1846.9	1744.5	1627.4	1500.8
2.5°	2236.4	2210.6	2180.5	2137.0	2082.5	2017.7	1941.9	1857.9	1755.6	1636.3	1509.6
0°	2242.3	2220.2	2181.9	2135.5	2084.0	2017.7	1941.1	1859.4	1757.0	1635.5	1508.9



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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°	18.4	17.7	17.7	16.9	16.2	15.5	14.0	13.3	11.8	9.6	7.4
85°	39.8	37.6	35.3	33.9	32.4	30.9	28.7	26.5	23.6	19.1	14.7
82.5°	70.0	65.5	61.1	56.0	51.5	47.1	43.4	39.8	35.3	28.7	22.1
80°	100.1	93.5	86.9	79.5	72.9	65.5	58.9	53.0	47.1	38.3	29.5
77.5°	130.3	121.5	111.9	103.1	93.5	83.9	74.4	66.3	57.4	47.1	36.8
75°	158.3	148.0	139.2	126.7	114.9	102.4	89.8	78.8	67.7	55.2	44.2
72.5°	186.3	173.1	160.5	148.8	135.5	120.0	106.0	92.0	78.1	63.3	50.1
70°	214.3	198.1	182.6	168.6	153.9	138.4	121.5	105.3	88.4	70.7	55.2
67.5°	243.0	224.6	206.9	189.3	172.3	154.6	137.0	118.6	98.7	78.1	61.1
65°	274.7	251.8	230.5	210.6	190.7	171.6	151.7	131.8	109.7	86.2	66.3
62.5°	306.3	281.3	256.3	231.2	209.1	187.8	166.4	144.3	120.0	95.0	71.4
60°	340.2	311.5	282.8	254.8	227.5	204.0	180.4	156.9	131.1	103.1	76.6
57.5°	377.8	343.2	310.8	279.1	248.2	220.2	194.4	169.4	140.7	111.2	82.5
55°	420.5	377.8	339.5	304.1	270.3	236.4	208.4	182.6	151.7	119.3	89.1
52.5°	465.4	416.1	369.7	329.9	293.8	255.5	221.7	192.9	162.7	127.4	95.0
50°	517.7	455.1	403.5	354.9	314.4	274.7	235.6	204.7	173.8	137.0	100.9
47.5°	571.4	502.2	437.4	384.4	336.5	293.1	251.8	215.0	184.1	145.8	106.8
45°	634.0	547.1	475.7	413.1	357.9	312.2	268.0	226.1	192.9	154.6	112.7
42.5°	694.4	600.2	515.5	444.8	382.2	330.6	282.8	237.9	201.8	163.5	117.8
40°	765.8	653.2	553.8	475.0	406.5	348.3	297.5	250.4	209.9	171.6	123.0
37.5°	834.3	706.9	600.2	508.1	430.1	366.0	312.2	262.2	217.2	179.7	129.6
35°	902.1	766.6	644.3	539.0	454.4	385.9	327.0	273.2	224.6	186.3	135.5
32.5°	966.9	822.5	689.3	573.6	480.9	404.3	340.2	283.5	232.0	192.2	141.4
30°	1027.3	875.6	733.4	609.0	505.2	421.2	352.7	293.8	240.8	197.4	147.3
27.5°	1082.5	927.1	777.6	642.1	528.0	436.7	366.0	303.4	248.2	202.5	152.4
25°	1132.6	973.5	818.1	672.3	548.6	453.6	378.5	313.0	254.8	206.9	156.9
22.5°	1179.7	1016.2	854.9	702.5	573.6	470.6	390.3	321.8	261.4	211.3	161.3
20°	1220.9	1055.2	890.3	732.7	595.7	486.0	400.6	329.9	267.3	214.3	165.7
17.5°	1254.1	1089.9	922.0	759.2	614.9	499.3	409.4	337.3	272.5	218.0	168.6
15°	1283.5	1119.3	948.5	782.0	631.8	510.3	417.5	343.2	276.9	220.2	172.3
12.5°	1308.6	1144.4	971.3	801.9	646.6	519.9	424.2	347.6	280.6	222.4	174.5
10°	1329.2	1164.2	990.4	817.4	658.3	527.3	429.3	352.0	283.5	224.6	176.7
7.5°	1344.6	1179.0	1004.4	830.6	667.9	532.4	433.7	354.9	286.5	226.1	180.4
5°	1356.4	1191.5	1015.5	839.5	675.3	539.8	438.9	358.6	289.4	227.5	180.4
2.5°	1365.3	1201.8	1024.3	846.8	681.2	538.3	438.9	357.9	289.4	227.5	179.7
0°	1363.8	1202.5	1023.6	846.8	681.2	536.8	438.9	357.1	289.4	227.5	179.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.2	3.7	1.5	0.0
85°	11.0	7.4	3.7	0.0
82.5°	16.2	10.3	5.2	0.0
80°	21.4	14.0	6.6	0.0
77.5°	27.2	17.7	8.8	0.0
75°	32.4	20.6	10.3	0.0
72.5°	37.6	24.3	11.8	0.0
70°	42.0	27.2	13.3	0.0
67.5°	46.4	30.9	15.5	0.0
65°	50.1	33.9	16.9	0.0
62.5°	53.0	37.6	18.4	0.0
60°	56.7	40.5	19.9	0.0
57.5°	59.6	42.7	21.4	0.0
55°	62.6	44.2	22.8	0.0
52.5°	65.5	46.4	24.3	0.0
50°	68.5	48.6	25.8	0.0
47.5°	71.4	50.1	26.5	0.0
45°	75.8	52.3	28.0	0.0
42.5°	79.5	53.8	29.5	0.0
40°	83.2	55.2	30.2	0.0
37.5°	86.9	56.7	31.7	0.0
35°	90.6	58.2	32.4	0.0
32.5°	93.5	59.6	33.1	0.0
30°	96.5	61.1	33.9	0.0
27.5°	99.4	61.9	34.6	0.0
25°	101.6	63.3	35.3	0.0
22.5°	103.8	64.1	36.1	0.0
20°	105.3	64.8	36.8	0.0
17.5°	107.5	65.5	37.6	0.0
15°	108.2	66.3	39.0	0.0
12.5°	109.7	67.0	39.0	0.0
10°	110.5	67.7	39.0	0.0
7.5°	111.9	67.7	39.0	0.0
5°	111.2	67.7	39.0	0.0
2.5°	111.2	67.7	39.0	0.0
0°	110.5	67.7	39.0	0.0

(END OF REPORT)