

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: P628470

Luminaire Tested: **IFLD-S-SA2B-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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:	7802.6 lumens	Max Intensity:	2543.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

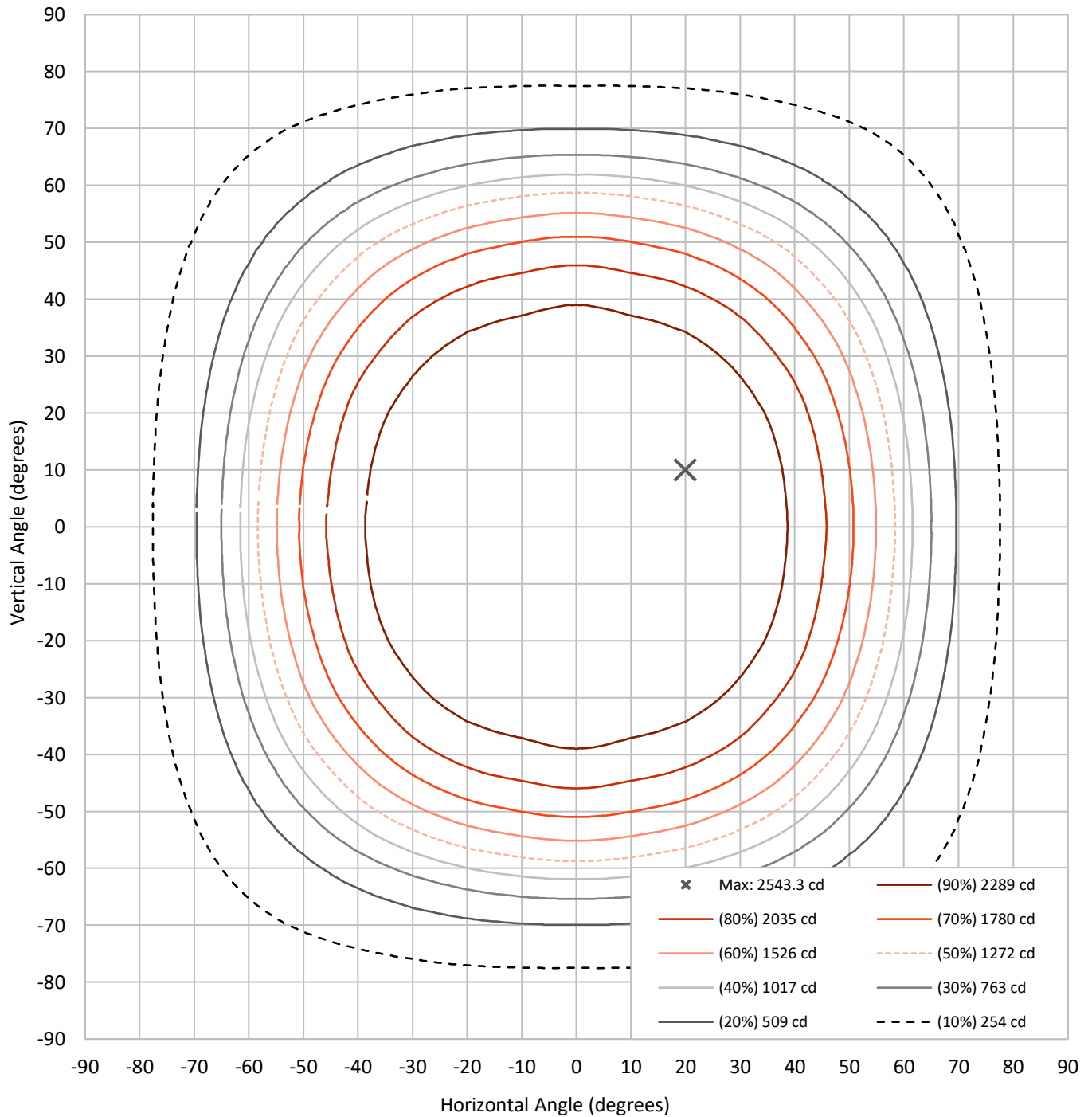
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	4787.8 lumens	Field Lumens:	5739.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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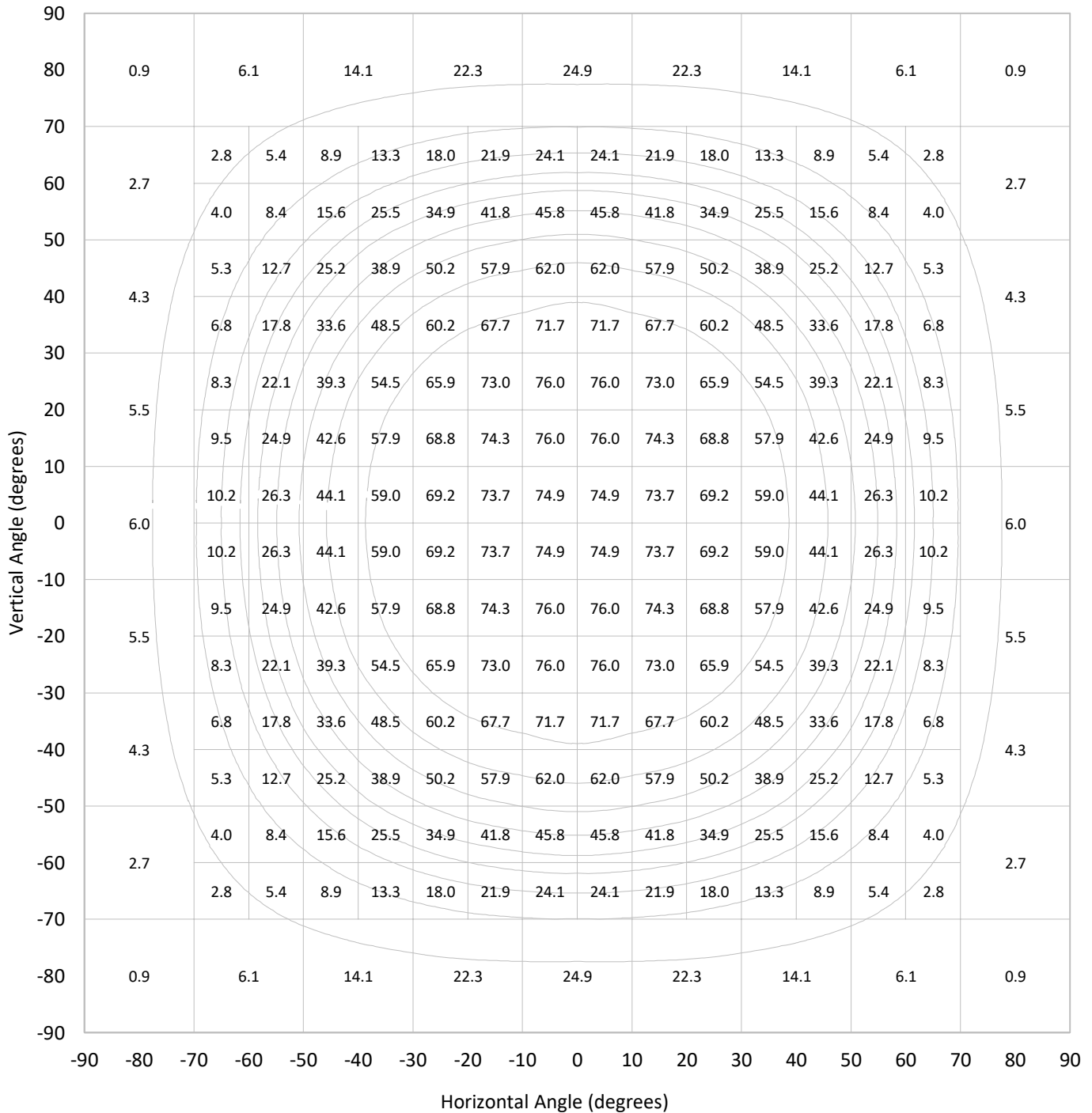
Iso-Candela Plot





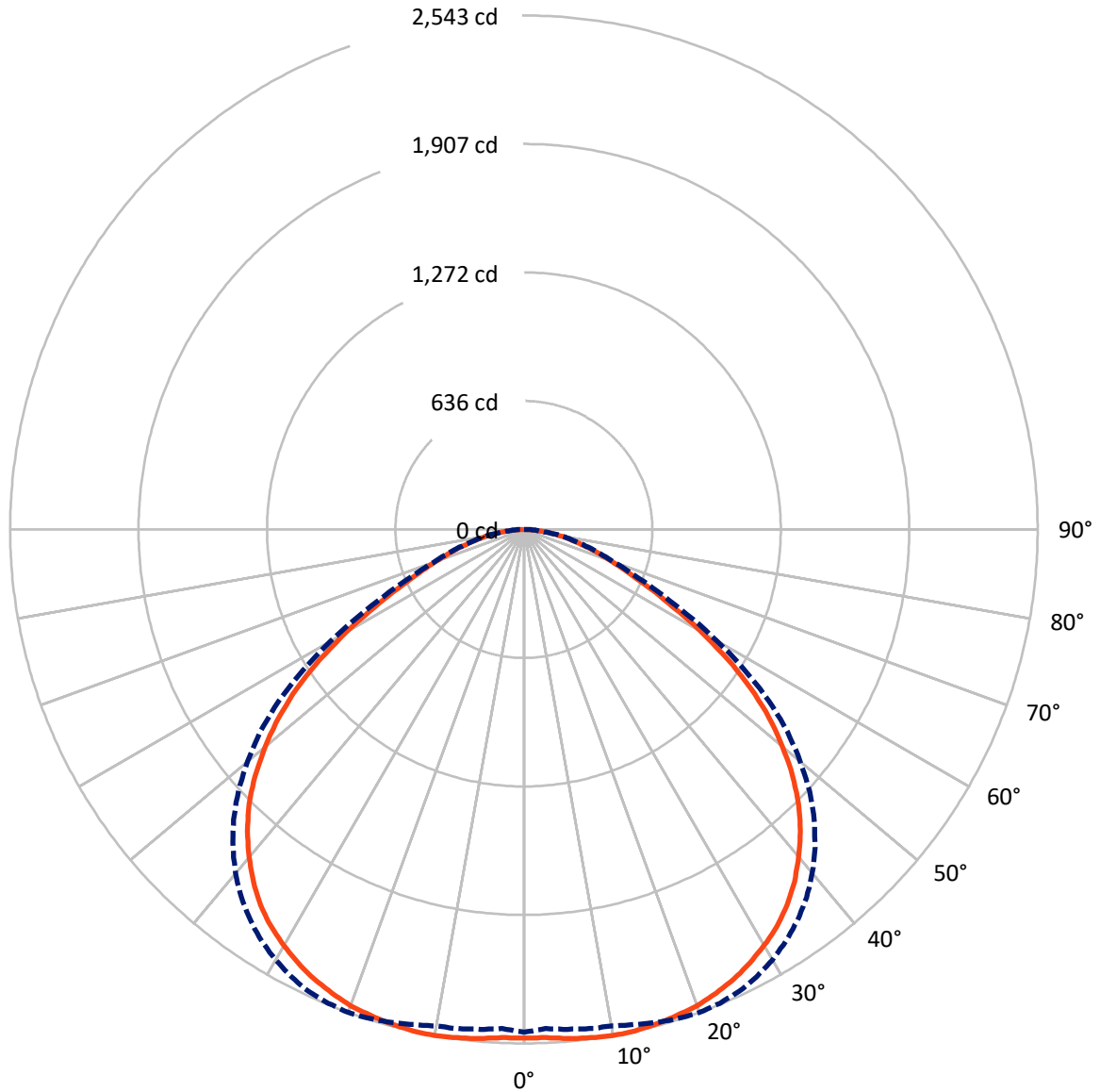
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Lumen Table



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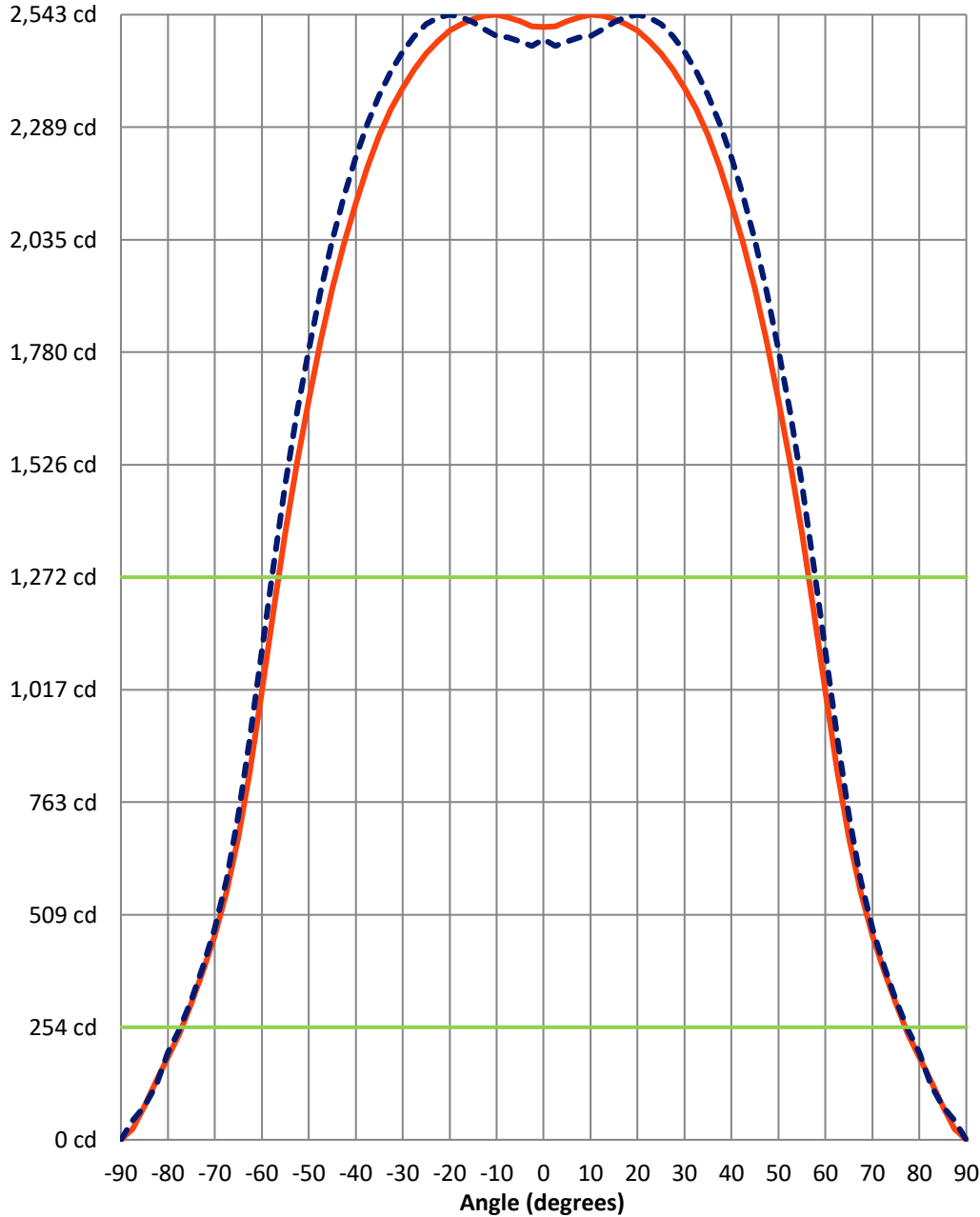
Luminous Intensity Polar Plot



— 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: 4787.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 5739.8
 Efficiency: 73.6%

Spill:
 Lumens: 2062.8
 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°	20.5	22.2	23.0	23.8	24.6	25.4	26.3	25.4	24.6	24.6	23.8
85°	55.0	56.6	57.5	63.2	69.0	72.2	76.3	75.5	75.5	74.7	73.9
82.5°	110.0	114.9	119.0	124.8	128.1	133.0	136.3	133.8	132.2	128.9	126.4
80°	195.4	197.0	197.9	198.7	194.6	193.7	192.1	189.6	186.4	182.3	178.1
77.5°	248.7	250.4	252.0	250.4	249.6	248.7	246.3	243.8	240.5	237.3	232.3
75°	329.2	329.2	329.2	326.7	325.1	322.6	318.5	314.4	308.7	302.1	294.7
72.5°	414.6	413.8	412.9	408.0	403.9	399.0	393.2	388.3	381.7	374.4	364.5
70°	504.1	505.7	506.5	500.0	495.0	488.5	481.1	472.0	462.2	451.5	437.6
67.5°	627.2	625.6	623.9	614.9	608.3	599.3	588.6	575.5	560.7	544.3	524.6
65°	779.9	782.4	777.4	768.4	756.1	741.3	724.9	706.0	683.9	659.2	631.3
62.5°	964.6	968.7	963.0	951.5	935.9	916.2	893.2	866.1	835.7	801.3	766.8
60°	1174.8	1174.0	1163.3	1147.7	1127.2	1102.5	1077.1	1047.5	1013.1	972.8	931.0
57.5°	1367.7	1366.1	1352.9	1337.3	1316.8	1290.5	1263.5	1232.3	1196.1	1153.4	1105.0
55°	1540.9	1539.3	1526.2	1509.7	1488.4	1462.1	1437.5	1407.9	1372.6	1327.5	1275.8
52.5°	1694.5	1695.3	1683.8	1665.7	1642.7	1617.3	1593.5	1563.9	1530.3	1485.1	1435.0
50°	1835.7	1834.8	1822.5	1806.1	1784.8	1760.1	1736.3	1706.8	1671.5	1628.0	1579.5
47.5°	1967.0	1965.4	1951.4	1933.3	1911.2	1889.8	1867.7	1841.4	1804.5	1760.9	1712.5
45°	2077.0	2073.7	2059.8	2042.5	2021.2	2002.3	1982.6	1962.9	1923.5	1883.3	1837.3
42.5°	2171.4	2170.6	2156.6	2139.4	2118.1	2101.6	2083.6	2059.0	2026.1	1989.2	1944.0
40°	2261.7	2255.2	2241.2	2224.8	2205.1	2191.1	2173.1	2148.4	2116.4	2080.3	2036.8
37.5°	2329.0	2329.9	2315.1	2297.0	2279.8	2266.7	2250.2	2227.3	2199.3	2164.0	2120.5
35°	2393.1	2389.0	2376.7	2361.1	2345.5	2330.7	2313.5	2293.7	2270.8	2237.9	2196.9
32.5°	2435.0	2440.7	2425.9	2409.5	2400.5	2389.0	2370.9	2350.4	2329.9	2297.0	2260.1
30°	2480.9	2476.0	2464.5	2450.6	2444.0	2436.6	2421.0	2401.3	2377.5	2347.9	2313.5
27.5°	2512.9	2510.5	2496.5	2483.4	2480.1	2473.5	2461.2	2444.0	2420.2	2391.4	2359.4
25°	2526.9	2528.5	2515.4	2508.0	2508.0	2503.9	2494.1	2479.3	2455.5	2429.2	2398.0
22.5°	2533.5	2531.8	2522.8	2521.2	2525.3	2522.0	2517.9	2504.7	2483.4	2462.0	2435.8
20°	2537.6	2526.1	2517.9	2524.4	2529.4	2528.5	2525.3	2517.0	2507.2	2489.1	2466.1
17.5°	2528.5	2521.2	2511.3	2521.2	2531.8	2532.6	2529.4	2524.4	2522.0	2510.5	2490.0
15°	2506.4	2500.6	2502.3	2512.1	2524.4	2528.5	2531.0	2536.8	2533.5	2524.4	2506.4
12.5°	2491.6	2484.2	2491.6	2501.5	2508.0	2510.5	2530.2	2540.9	2540.9	2532.6	2521.2
10°	2487.5	2472.7	2482.6	2491.6	2494.9	2509.7	2526.1	2537.6	2543.3	2536.8	2522.0
7.5°	2479.3	2469.4	2473.5	2477.6	2496.5	2507.2	2516.2	2528.5	2536.8	2535.9	2522.8
5°	2475.2	2462.9	2464.5	2481.7	2494.9	2502.3	2505.6	2516.2	2528.5	2531.0	2521.2
2.5°	2464.5	2458.8	2471.1	2472.7	2482.6	2488.3	2491.6	2501.5	2517.0	2522.8	2518.7
0°	2458.8	2450.6	2442.3	2448.9	2465.3	2477.6	2482.6	2497.3	2515.4	2521.2	2512.1



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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°	23.0	22.2	21.3	20.5	21.3	21.3	21.3	20.5	21.3	20.5	20.5
85°	71.4	68.1	65.7	62.4	59.1	56.6	53.4	50.1	49.3	48.4	46.8
82.5°	123.1	119.0	114.9	110.0	105.1	99.3	93.6	87.0	85.4	83.7	81.3
80°	173.2	167.5	161.7	156.0	151.1	145.3	138.7	131.4	126.4	122.3	117.4
77.5°	225.8	217.6	209.3	199.5	193.7	188.0	181.4	174.0	166.7	160.1	152.7
75°	285.7	276.7	268.5	258.6	247.9	237.3	226.6	216.7	206.1	196.2	186.4
72.5°	352.2	339.1	325.9	313.6	300.5	287.3	273.4	260.2	247.1	234.0	220.0
70°	422.0	405.6	389.1	372.7	355.5	338.2	321.8	305.4	289.0	271.7	256.1
67.5°	504.1	485.2	463.8	440.9	415.4	393.2	371.9	352.2	332.5	312.8	293.1
65°	606.7	580.4	551.7	520.5	490.9	461.4	430.2	400.6	377.6	354.7	332.5
62.5°	733.1	696.2	655.9	615.7	579.6	541.0	504.9	466.3	430.2	397.3	370.3
60°	884.2	834.1	784.8	733.1	683.0	630.5	584.5	536.9	491.8	451.5	412.1
57.5°	1050.8	992.5	933.4	870.2	802.1	740.5	678.1	615.7	562.4	509.0	464.7
55°	1219.9	1158.4	1091.9	1020.4	945.7	866.9	782.4	712.6	639.5	577.1	519.7
52.5°	1380.8	1316.8	1247.9	1182.2	1092.7	1002.4	909.6	817.7	732.3	652.7	582.9
50°	1524.5	1462.1	1395.6	1319.3	1236.4	1140.3	1036.9	933.4	832.4	738.9	651.8
47.5°	1655.9	1595.1	1528.6	1452.3	1376.7	1270.0	1165.8	1051.6	939.2	831.6	729.8
45°	1779.0	1717.4	1648.5	1575.4	1488.4	1393.2	1285.6	1170.7	1050.0	929.3	811.9
42.5°	1890.7	1829.1	1759.3	1683.8	1597.6	1503.2	1398.9	1283.2	1161.7	1030.3	901.4
40°	1988.4	1928.4	1861.1	1782.3	1701.8	1602.5	1499.9	1389.9	1264.3	1132.1	990.1
37.5°	2073.7	2017.9	1951.4	1873.4	1788.0	1699.4	1593.5	1483.5	1370.2	1226.5	1081.2
35°	2149.3	2097.5	2029.4	1955.5	1871.8	1778.2	1678.9	1571.3	1449.0	1314.3	1173.1
32.5°	2214.9	2162.4	2100.0	2026.1	1944.8	1857.0	1755.2	1646.8	1531.1	1394.0	1240.5
30°	2270.8	2219.9	2160.8	2091.0	2013.0	1926.0	1826.6	1717.4	1599.2	1462.9	1311.1
27.5°	2319.2	2270.8	2213.3	2148.4	2073.7	1990.0	1889.8	1779.8	1659.2	1527.8	1375.9
25°	2361.1	2314.3	2260.9	2199.3	2125.5	2043.4	1948.9	1834.0	1713.3	1581.2	1430.9
22.5°	2398.8	2353.7	2300.3	2240.4	2173.1	2091.0	1995.7	1881.6	1759.3	1628.8	1481.0
20°	2432.5	2390.6	2338.1	2276.5	2209.2	2126.3	2031.9	1923.5	1800.4	1672.3	1526.2
17.5°	2459.6	2422.6	2370.1	2305.2	2237.9	2157.5	2065.5	1966.2	1835.7	1709.2	1563.9
15°	2478.5	2442.3	2394.7	2329.0	2263.4	2183.7	2091.8	1989.2	1867.7	1738.8	1595.1
12.5°	2491.6	2453.0	2408.7	2347.9	2282.3	2203.4	2114.0	2013.0	1894.8	1765.1	1622.2
10°	2494.9	2459.6	2415.3	2361.1	2297.0	2220.7	2132.8	2032.7	1916.9	1785.6	1644.4
7.5°	2496.5	2462.9	2422.6	2370.9	2307.7	2233.8	2146.8	2048.3	1933.3	1802.8	1660.8
5°	2495.7	2463.7	2427.6	2377.5	2314.3	2241.2	2155.8	2059.0	1944.8	1814.3	1673.1
2.5°	2493.2	2464.5	2430.8	2382.4	2321.7	2249.4	2164.9	2071.3	1957.2	1824.2	1683.0
0°	2499.8	2475.2	2432.5	2380.8	2323.3	2249.4	2164.0	2072.9	1958.8	1823.3	1682.1



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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°	20.5	19.7	19.7	18.9	18.1	17.2	15.6	14.8	13.1	10.7	8.2
85°	44.3	41.9	39.4	37.8	36.1	34.5	32.0	29.6	26.3	21.3	16.4
82.5°	78.0	73.1	68.1	62.4	57.5	52.5	48.4	44.3	39.4	32.0	24.6
80°	111.6	104.3	96.9	88.7	81.3	73.1	65.7	59.1	52.5	42.7	32.8
77.5°	145.3	135.5	124.8	114.9	104.3	93.6	82.9	73.9	64.0	52.5	41.0
75°	176.5	165.0	155.2	141.2	128.1	114.1	100.2	87.8	75.5	61.6	49.3
72.5°	207.7	192.9	179.0	165.8	151.1	133.8	118.2	102.6	87.0	70.6	55.8
70°	238.9	220.8	203.6	188.0	171.6	154.3	135.5	117.4	98.5	78.8	61.6
67.5°	270.9	250.4	230.7	211.0	192.1	172.4	152.7	132.2	110.0	87.0	68.1
65°	306.2	280.8	257.0	234.8	212.6	191.3	169.1	147.0	122.3	96.1	73.9
62.5°	341.5	313.6	285.7	257.8	233.2	209.3	185.5	160.9	133.8	105.9	79.6
60°	379.3	347.3	315.2	284.1	253.7	227.4	201.1	174.9	146.1	114.9	85.4
57.5°	421.2	382.6	346.4	311.1	276.7	245.5	216.7	188.8	156.8	124.0	91.9
55°	468.8	421.2	378.5	339.1	301.3	263.5	232.3	203.6	169.1	133.0	99.3
52.5°	518.8	463.8	412.1	367.8	327.6	284.9	247.1	215.1	181.4	142.0	105.9
50°	577.1	507.4	449.9	395.7	350.5	306.2	262.7	228.2	193.7	152.7	112.5
47.5°	637.1	559.9	487.6	428.5	375.2	326.7	280.8	239.7	205.2	162.5	119.0
45°	706.8	610.0	530.3	460.6	399.0	348.1	298.8	252.0	215.1	172.4	125.6
42.5°	774.2	669.1	574.7	495.9	426.1	368.6	315.2	265.2	224.9	182.3	131.4
40°	853.8	728.2	617.4	529.5	453.2	388.3	331.7	279.1	234.0	191.3	137.1
37.5°	930.1	788.1	669.1	566.5	479.4	408.0	348.1	292.3	242.2	200.3	144.5
35°	1005.7	854.6	718.3	600.9	506.5	430.2	364.5	304.6	250.4	207.7	151.1
32.5°	1077.9	917.0	768.4	639.5	536.1	450.7	379.3	316.1	258.6	214.3	157.6
30°	1145.2	976.1	817.7	678.9	563.2	469.6	393.2	327.6	268.5	220.0	164.2
27.5°	1206.8	1033.6	866.9	715.9	588.6	486.8	408.0	338.2	276.7	225.8	169.9
25°	1262.6	1085.3	912.1	749.5	611.6	505.7	422.0	348.9	284.1	230.7	174.9
22.5°	1315.2	1132.9	953.1	783.2	639.5	524.6	435.1	358.8	291.4	235.6	179.8
20°	1361.1	1176.4	992.5	816.9	664.2	541.8	446.6	367.8	298.0	238.9	184.7
17.5°	1398.1	1215.0	1027.8	846.4	685.5	556.6	456.5	376.0	303.8	243.0	188.0
15°	1430.9	1247.9	1057.4	871.9	704.4	568.9	465.5	382.6	308.7	245.5	192.1
12.5°	1458.8	1275.8	1082.8	894.0	720.8	579.6	472.9	387.5	312.8	247.9	194.6
10°	1481.8	1297.9	1104.2	911.3	733.9	587.8	478.6	392.4	316.1	250.4	197.0
7.5°	1499.1	1314.3	1119.8	926.0	744.6	593.6	483.5	395.7	319.4	252.0	201.1
5°	1512.2	1328.3	1132.1	935.9	752.8	601.8	489.3	399.8	322.6	253.7	201.1
2.5°	1522.1	1339.8	1141.9	944.1	759.4	600.1	489.3	399.0	322.6	253.7	200.3
0°	1520.4	1340.6	1141.1	944.1	759.4	598.5	489.3	398.2	322.6	253.7	200.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.7	4.1	1.6	0.0
85°	12.3	8.2	4.1	0.0
82.5°	18.1	11.5	5.7	0.0
80°	23.8	15.6	7.4	0.0
77.5°	30.4	19.7	9.9	0.0
75°	36.1	23.0	11.5	0.0
72.5°	41.9	27.1	13.1	0.0
70°	46.8	30.4	14.8	0.0
67.5°	51.7	34.5	17.2	0.0
65°	55.8	37.8	18.9	0.0
62.5°	59.1	41.9	20.5	0.0
60°	63.2	45.2	22.2	0.0
57.5°	66.5	47.6	23.8	0.0
55°	69.8	49.3	25.4	0.0
52.5°	73.1	51.7	27.1	0.0
50°	76.3	54.2	28.7	0.0
47.5°	79.6	55.8	29.6	0.0
45°	84.6	58.3	31.2	0.0
42.5°	88.7	59.9	32.8	0.0
40°	92.8	61.6	33.7	0.0
37.5°	96.9	63.2	35.3	0.0
35°	101.0	64.9	36.1	0.0
32.5°	104.3	66.5	36.9	0.0
30°	107.5	68.1	37.8	0.0
27.5°	110.8	69.0	38.6	0.0
25°	113.3	70.6	39.4	0.0
22.5°	115.8	71.4	40.2	0.0
20°	117.4	72.2	41.0	0.0
17.5°	119.9	73.1	41.9	0.0
15°	120.7	73.9	43.5	0.0
12.5°	122.3	74.7	43.5	0.0
10°	123.1	75.5	43.5	0.0
7.5°	124.8	75.5	43.5	0.0
5°	124.0	75.5	43.5	0.0
2.5°	124.0	75.5	43.5	0.0
0°	123.1	75.5	43.5	0.0

(END OF REPORT)