

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: P628387

Luminaire Tested: **IFLD-S-SA3A-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628387
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

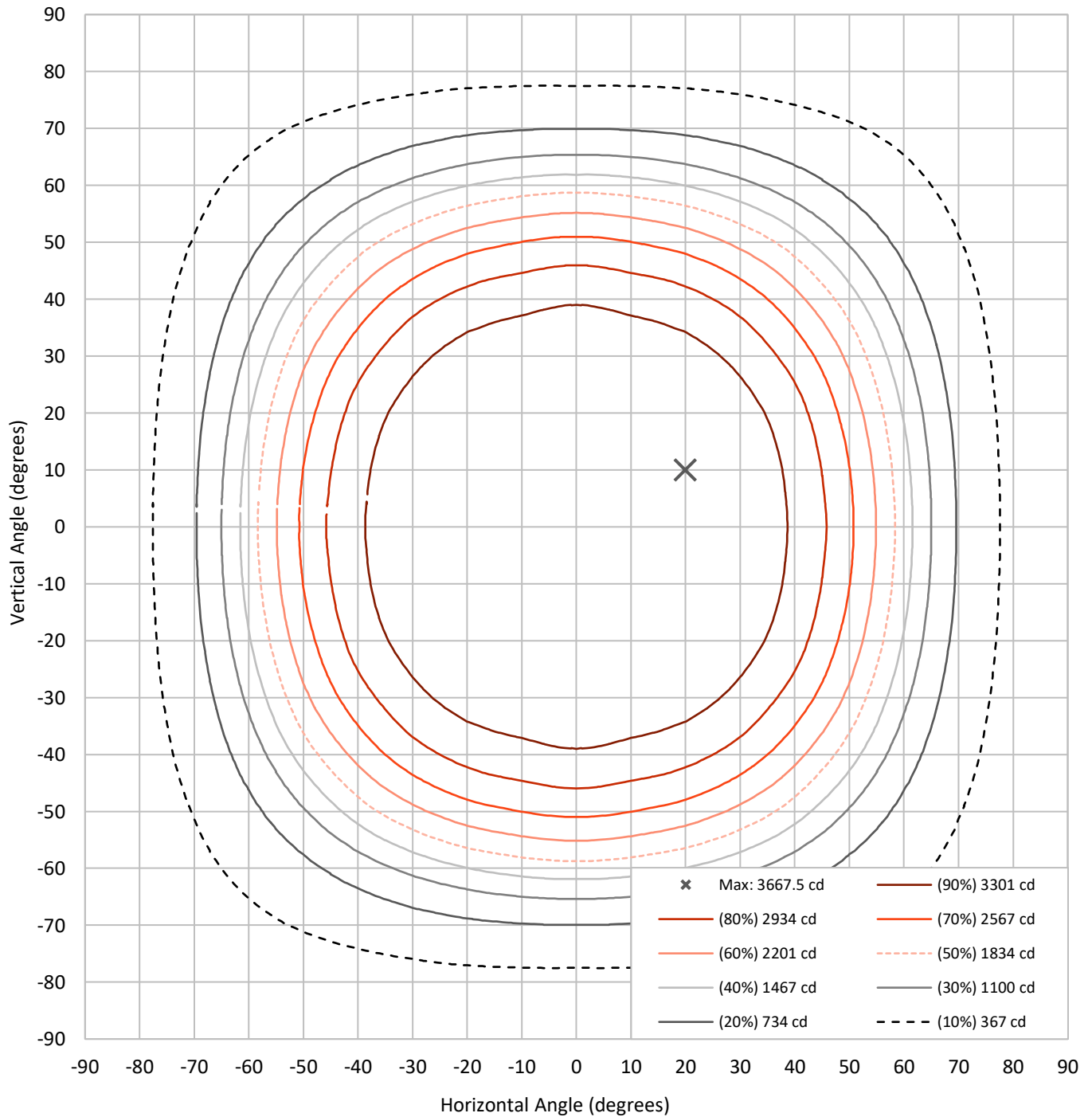
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11251.4 lumens	Max Intensity:	3667.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	118.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6904.1 lumens	Field Lumens:	8276.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 94.8
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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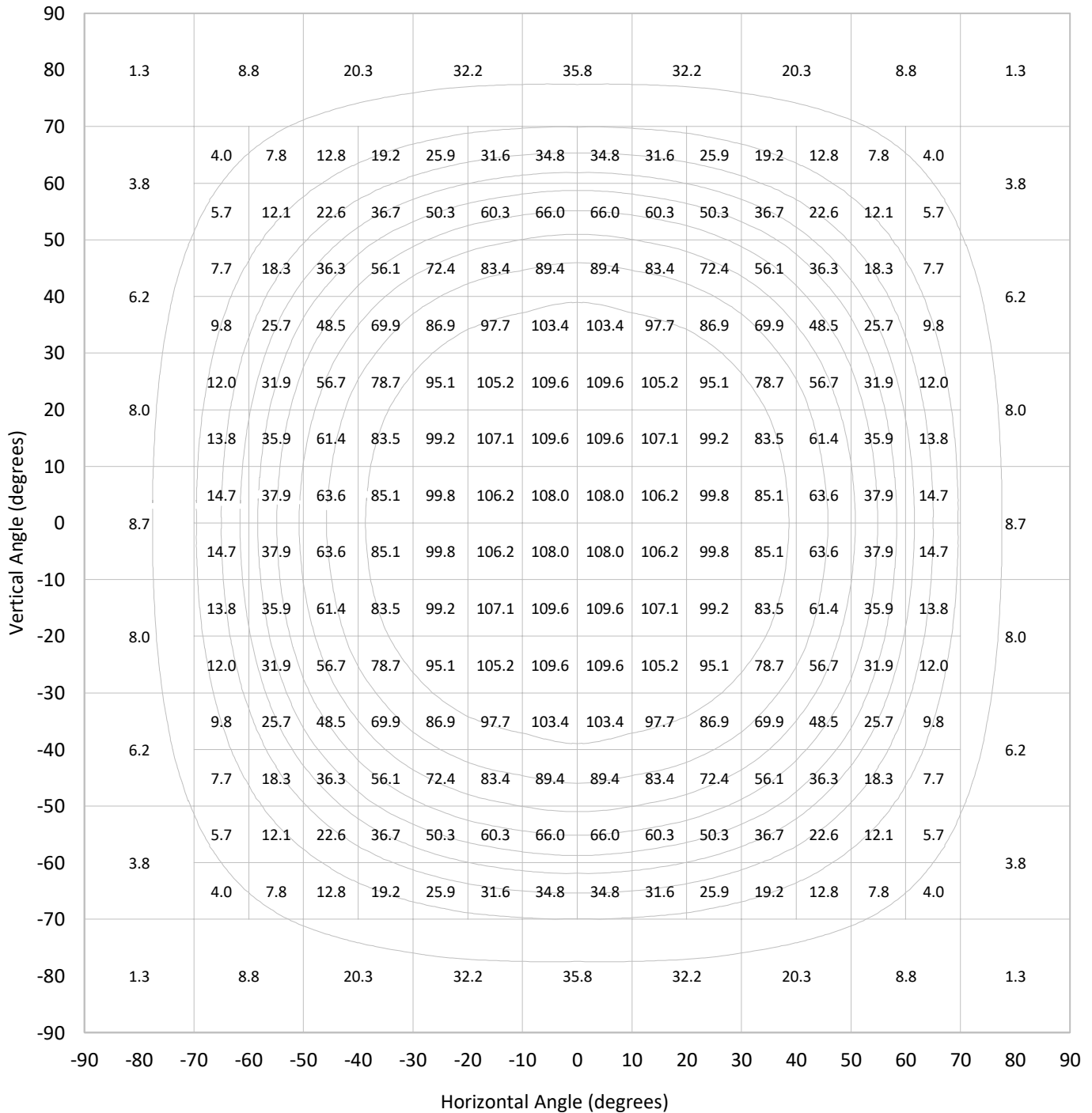
Iso-Candela Plot





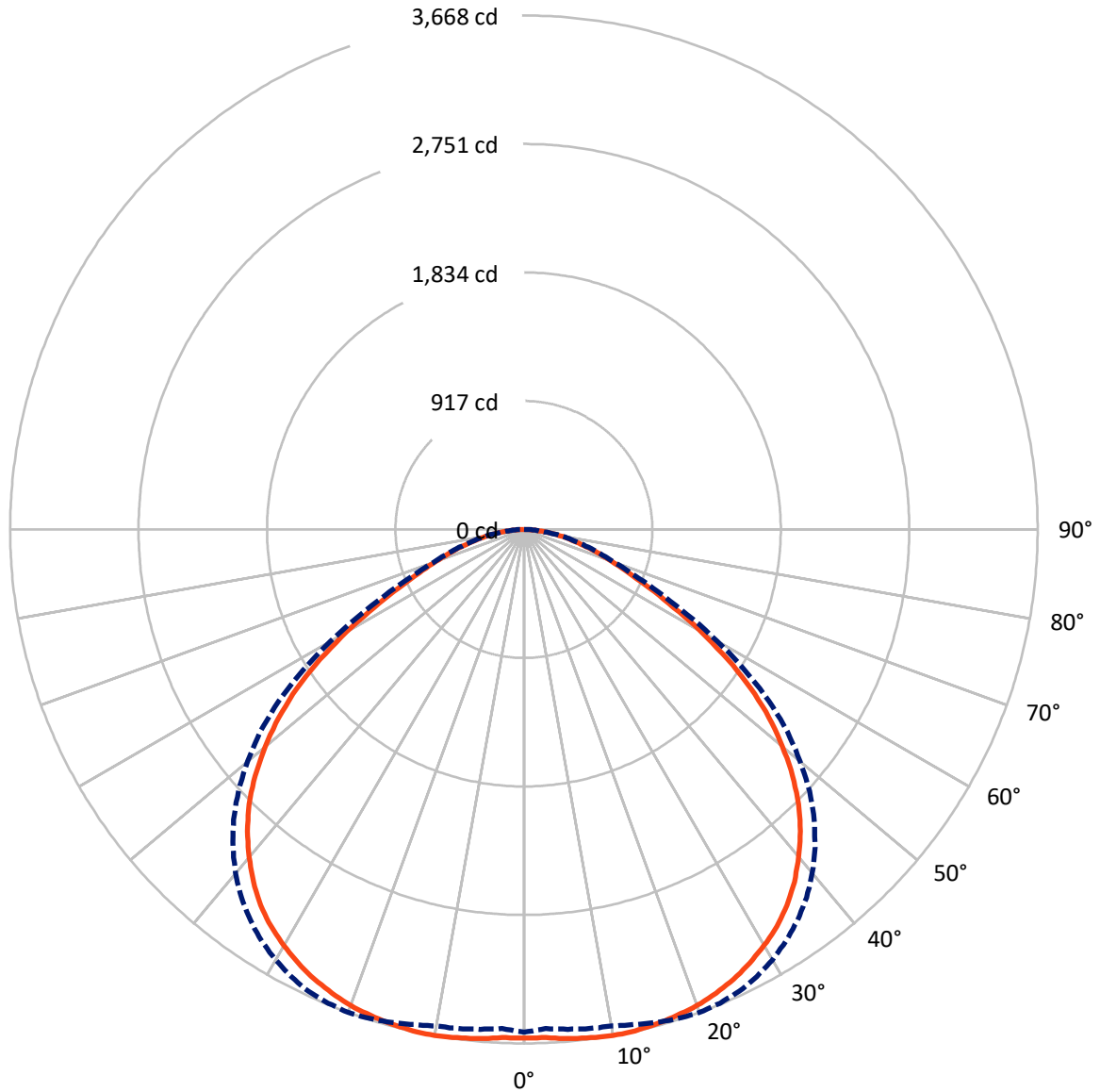
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Lumen Table



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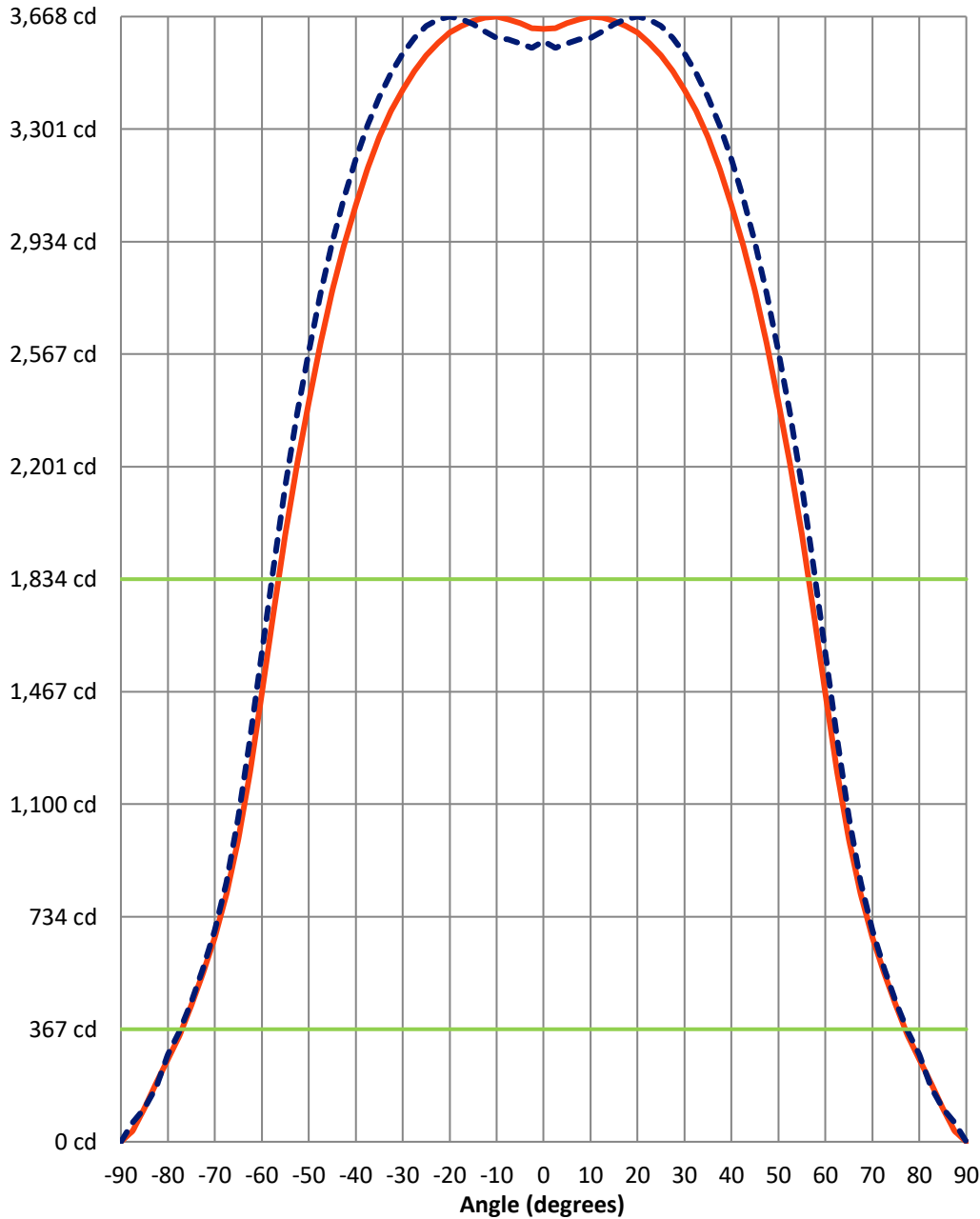
Luminous Intensity Polar Plot



— 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: 6904.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8276.9
 Efficiency: 73.6%

Spill:
 Lumens: 2974.6
 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°	29.6	32.0	33.1	34.3	35.5	36.7	37.9	36.7	35.5	35.5	34.3
85°	79.3	81.7	82.9	91.2	99.4	104.2	110.1	108.9	108.9	107.7	106.5
82.5°	158.6	165.7	171.7	179.9	184.7	191.8	196.5	193.0	190.6	185.9	182.3
80°	281.8	284.1	285.3	286.5	280.6	279.4	277.0	273.5	268.7	262.8	256.9
77.5°	358.7	361.1	363.4	361.1	359.9	358.7	355.1	351.6	346.9	342.1	335.0
75°	474.7	474.7	474.7	471.2	468.8	465.2	459.3	453.4	445.1	435.7	425.0
72.5°	597.8	596.7	595.5	588.4	582.4	575.3	567.1	560.0	550.5	539.8	525.6
70°	726.9	729.2	730.4	721.0	713.9	704.4	693.7	680.7	666.5	651.1	631.0
67.5°	904.4	902.1	899.7	886.7	877.2	864.2	848.8	829.9	808.6	784.9	756.5
65°	1124.6	1128.2	1121.1	1108.1	1090.3	1069.0	1045.3	1018.1	986.1	950.6	910.4
62.5°	1391.0	1396.9	1388.6	1372.1	1349.6	1321.2	1288.0	1248.9	1205.1	1155.4	1105.7
60°	1694.1	1692.9	1677.5	1655.0	1625.4	1589.9	1553.2	1510.6	1460.9	1402.8	1342.5
57.5°	1972.3	1969.9	1951.0	1928.5	1898.9	1861.0	1821.9	1776.9	1724.8	1663.3	1593.4
55°	2222.1	2219.7	2200.7	2177.1	2146.3	2108.4	2072.9	2030.3	1979.4	1914.3	1839.7
52.5°	2443.4	2444.6	2428.0	2402.0	2368.9	2332.2	2297.8	2255.2	2206.7	2141.6	2069.3
50°	2647.1	2645.9	2628.1	2604.4	2573.7	2538.1	2503.8	2461.2	2410.3	2347.5	2277.7
47.5°	2836.5	2834.1	2814.0	2787.9	2756.0	2725.2	2693.2	2655.3	2602.1	2539.3	2469.5
45°	2995.1	2990.4	2970.2	2945.4	2914.6	2887.4	2859.0	2830.5	2773.7	2715.7	2649.4
42.5°	3131.2	3130.1	3109.9	3085.1	3054.3	3030.6	3004.6	2969.1	2921.7	2868.4	2803.3
40°	3261.5	3252.0	3231.9	3208.2	3179.8	3159.7	3133.6	3098.1	3051.9	2999.8	2937.1
37.5°	3358.5	3359.7	3338.4	3312.4	3287.5	3268.6	3244.9	3211.7	3171.5	3120.6	3057.8
35°	3450.9	3445.0	3427.2	3404.7	3382.2	3360.9	3336.0	3307.6	3274.5	3227.1	3167.9
32.5°	3511.2	3519.5	3498.2	3474.6	3461.5	3445.0	3418.9	3389.3	3359.7	3312.4	3259.1
30°	3577.5	3570.4	3553.9	3533.7	3524.3	3513.6	3491.1	3462.7	3428.4	3385.8	3336.0
27.5°	3623.7	3620.2	3600.0	3581.1	3576.4	3566.9	3549.1	3524.3	3489.9	3448.5	3402.3
25°	3643.8	3646.2	3627.3	3616.6	3616.6	3610.7	3596.5	3575.2	3540.8	3503.0	3458.0
22.5°	3653.3	3650.9	3637.9	3635.6	3641.5	3636.7	3630.8	3611.9	3581.1	3550.3	3512.4
20°	3659.2	3642.7	3630.8	3640.3	3647.4	3646.2	3641.5	3629.6	3615.4	3589.4	3556.2
17.5°	3646.2	3635.6	3621.3	3635.6	3650.9	3652.1	3647.4	3640.3	3636.7	3620.2	3590.6
15°	3614.2	3606.0	3608.3	3622.5	3640.3	3646.2	3649.8	3658.0	3653.3	3640.3	3614.2
12.5°	3592.9	3582.3	3592.9	3607.1	3616.6	3620.2	3648.6	3664.0	3664.0	3652.1	3635.6
10°	3587.0	3565.7	3579.9	3592.9	3597.7	3619.0	3642.7	3659.2	3667.5	3658.0	3636.7
7.5°	3575.2	3561.0	3566.9	3572.8	3600.0	3615.4	3628.4	3646.2	3658.0	3656.9	3637.9
5°	3569.3	3551.5	3553.9	3578.7	3597.7	3608.3	3613.1	3628.4	3646.2	3649.8	3635.6
2.5°	3553.9	3545.6	3563.3	3565.7	3579.9	3588.2	3592.9	3607.1	3629.6	3637.9	3632.0
0°	3545.6	3533.7	3521.9	3531.4	3555.1	3572.8	3579.9	3601.2	3627.3	3635.6	3622.5



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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°	33.1	32.0	30.8	29.6	30.8	30.8	30.8	29.6	30.8	29.6	29.6
85°	103.0	98.3	94.7	90.0	85.2	81.7	76.9	72.2	71.0	69.8	67.5
82.5°	177.6	171.7	165.7	158.6	151.5	143.2	135.0	125.5	123.1	120.8	117.2
80°	249.8	241.5	233.2	224.9	217.8	209.5	200.1	189.4	182.3	176.4	169.3
77.5°	325.6	313.7	301.9	287.7	279.4	271.1	261.6	251.0	240.3	230.8	220.2
75°	412.0	399.0	387.1	372.9	357.5	342.1	326.7	312.5	297.1	282.9	268.7
72.5°	507.9	488.9	470.0	452.2	433.3	414.3	394.2	375.3	356.3	337.4	317.3
70°	608.5	584.8	561.1	537.5	512.6	487.7	464.1	440.4	416.7	391.8	369.4
67.5°	726.9	699.6	668.9	635.7	599.0	567.1	536.3	507.9	479.5	451.0	422.6
65°	874.9	837.0	795.5	750.6	707.9	665.3	620.3	577.7	544.6	511.4	479.5
62.5°	1057.2	1003.9	945.9	887.9	835.8	780.1	728.1	672.4	620.3	573.0	533.9
60°	1275.0	1202.8	1131.7	1057.2	984.9	909.2	842.9	774.2	709.1	651.1	594.3
57.5°	1515.3	1431.3	1346.0	1254.9	1156.6	1067.8	977.8	887.9	810.9	734.0	670.0
55°	1759.2	1670.4	1574.5	1471.5	1363.8	1250.1	1128.2	1027.6	922.2	832.2	749.4
52.5°	1991.2	1898.9	1799.4	1704.7	1575.7	1445.5	1311.7	1179.1	1056.0	941.1	840.5
50°	2198.4	2108.4	2012.5	1902.4	1782.9	1644.3	1495.2	1346.0	1200.4	1065.4	940.0
47.5°	2387.8	2300.2	2204.3	2094.2	1985.3	1831.4	1681.0	1516.5	1354.3	1199.2	1052.4
45°	2565.4	2476.6	2377.1	2271.8	2146.3	2009.0	1853.9	1688.1	1514.1	1340.1	1170.8
42.5°	2726.4	2637.6	2537.0	2428.0	2303.7	2167.6	2017.3	1850.3	1675.1	1485.7	1299.8
40°	2867.2	2780.8	2683.7	2570.1	2454.1	2310.8	2162.9	2004.2	1823.1	1632.5	1427.7
37.5°	2990.4	2909.9	2814.0	2701.5	2578.4	2450.5	2297.8	2139.2	1975.8	1768.6	1559.1
35°	3099.3	3024.7	2926.4	2819.9	2699.1	2564.2	2420.9	2265.9	2089.5	1895.3	1691.7
32.5°	3194.0	3118.2	3028.2	2921.7	2804.5	2677.8	2531.0	2374.8	2207.8	2010.1	1788.8
30°	3274.5	3201.1	3115.8	3015.2	2902.8	2777.3	2634.0	2476.6	2306.1	2109.6	1890.6
27.5°	3344.3	3274.5	3191.6	3098.1	2990.4	2869.6	2725.2	2566.6	2392.5	2203.1	1984.1
25°	3404.7	3337.2	3260.3	3171.5	3064.9	2946.6	2810.4	2644.7	2470.7	2280.1	2063.4
22.5°	3459.2	3394.0	3317.1	3230.7	3133.6	3015.2	2877.9	2713.3	2537.0	2348.7	2135.6
20°	3507.7	3447.3	3371.6	3282.8	3185.7	3066.1	2930.0	2773.7	2596.1	2411.5	2200.7
17.5°	3546.8	3493.5	3417.7	3324.2	3227.1	3111.1	2978.5	2835.3	2647.1	2464.7	2255.2
15°	3574.0	3521.9	3453.2	3358.5	3263.8	3149.0	3016.4	2868.4	2693.2	2507.4	2300.2
12.5°	3592.9	3537.3	3473.4	3385.8	3291.1	3177.4	3048.4	2902.8	2732.3	2545.2	2339.3
10°	3597.7	3546.8	3482.8	3404.7	3312.4	3202.3	3075.6	2931.2	2764.3	2574.8	2371.2
7.5°	3600.0	3551.5	3493.5	3418.9	3327.8	3221.2	3095.7	2953.7	2787.9	2599.7	2394.9
5°	3598.9	3552.7	3500.6	3428.4	3337.2	3231.9	3108.7	2969.1	2804.5	2616.3	2412.7
2.5°	3595.3	3553.9	3505.3	3435.5	3347.9	3243.7	3121.8	2986.8	2822.3	2630.5	2426.9
0°	3604.8	3569.3	3507.7	3433.1	3350.2	3243.7	3120.6	2989.2	2824.6	2629.3	2425.7



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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°	29.6	28.4	28.4	27.2	26.0	24.9	22.5	21.3	18.9	15.4	11.8
85°	63.9	60.4	56.8	54.5	52.1	49.7	46.2	42.6	37.9	30.8	23.7
82.5°	112.5	105.4	98.3	90.0	82.9	75.8	69.8	63.9	56.8	46.2	35.5
80°	161.0	150.3	139.7	127.9	117.2	105.4	94.7	85.2	75.8	61.6	47.4
77.5°	209.5	195.3	179.9	165.7	150.3	135.0	119.6	106.5	92.3	75.8	59.2
75°	254.5	238.0	223.7	203.6	184.7	164.6	144.4	126.7	108.9	88.8	71.0
72.5°	299.5	278.2	258.1	239.1	217.8	193.0	170.5	148.0	125.5	101.8	80.5
70°	344.5	318.5	293.6	271.1	247.4	222.6	195.3	169.3	142.1	113.6	88.8
67.5°	390.7	361.1	332.7	304.2	277.0	248.6	220.2	190.6	158.6	125.5	98.3
65°	441.6	404.9	370.5	338.6	306.6	275.8	243.9	211.9	176.4	138.5	106.5
62.5°	492.5	452.2	412.0	371.7	336.2	301.9	267.5	232.0	193.0	152.7	114.8
60°	546.9	500.8	454.6	409.6	365.8	327.9	290.0	252.2	210.7	165.7	123.1
57.5°	607.3	551.7	499.6	448.7	399.0	354.0	312.5	272.3	226.1	178.8	132.6
55°	676.0	607.3	545.7	488.9	434.5	380.0	335.0	293.6	243.9	191.8	143.2
52.5°	748.2	668.9	594.3	530.4	472.3	410.8	356.3	310.2	261.6	204.8	152.7
50°	832.2	731.6	648.7	570.6	505.5	441.6	378.8	329.1	279.4	220.2	162.2
47.5°	918.7	807.4	703.2	618.0	541.0	471.2	404.9	345.7	296.0	234.4	171.7
45°	1019.3	879.6	764.8	664.1	575.3	501.9	430.9	363.4	310.2	248.6	181.1
42.5°	1116.4	964.8	828.7	715.0	614.4	531.5	454.6	382.4	324.4	262.8	189.4
40°	1231.2	1050.1	890.2	763.6	653.5	560.0	478.3	402.5	337.4	275.8	197.7
37.5°	1341.3	1136.5	964.8	816.8	691.4	588.4	501.9	421.4	349.2	288.9	208.4
35°	1450.2	1232.4	1035.9	866.6	730.4	620.3	525.6	439.2	361.1	299.5	217.8
32.5°	1554.4	1322.3	1108.1	922.2	773.0	649.9	546.9	455.8	372.9	309.0	227.3
30°	1651.4	1407.6	1179.1	979.0	812.1	677.2	567.1	472.3	387.1	317.3	236.8
27.5°	1740.2	1490.4	1250.1	1032.3	848.8	702.0	588.4	487.7	399.0	325.6	245.1
25°	1820.7	1565.0	1315.2	1080.8	882.0	729.2	608.5	503.1	409.6	332.7	252.2
22.5°	1896.5	1633.7	1374.4	1129.4	922.2	756.5	627.4	517.3	420.3	339.8	259.3
20°	1962.8	1696.4	1431.3	1177.9	957.7	781.3	644.0	530.4	429.7	344.5	266.4
17.5°	2016.1	1752.1	1482.2	1220.5	988.5	802.6	658.2	542.2	438.0	350.4	271.1
15°	2063.4	1799.4	1524.8	1257.2	1015.7	820.4	671.2	551.7	445.1	354.0	277.0
12.5°	2103.7	1839.7	1561.5	1289.2	1039.4	835.8	681.9	558.8	451.0	357.5	280.6
10°	2136.8	1871.6	1592.3	1314.1	1058.3	847.6	690.2	565.9	455.8	361.1	284.1
7.5°	2161.7	1895.3	1614.7	1335.4	1073.7	855.9	697.3	570.6	460.5	363.4	290.0
5°	2180.6	1915.4	1632.5	1349.6	1085.6	867.7	705.6	576.5	465.2	365.8	290.0
2.5°	2194.8	1932.0	1646.7	1361.4	1095.0	865.4	705.6	575.3	465.2	365.8	288.9
0°	2192.5	1933.2	1645.5	1361.4	1095.0	863.0	705.6	574.2	465.2	365.8	288.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.3	5.9	2.4	0.0
85°	17.8	11.8	5.9	0.0
82.5°	26.0	16.6	8.3	0.0
80°	34.3	22.5	10.7	0.0
77.5°	43.8	28.4	14.2	0.0
75°	52.1	33.1	16.6	0.0
72.5°	60.4	39.1	18.9	0.0
70°	67.5	43.8	21.3	0.0
67.5°	74.6	49.7	24.9	0.0
65°	80.5	54.5	27.2	0.0
62.5°	85.2	60.4	29.6	0.0
60°	91.2	65.1	32.0	0.0
57.5°	95.9	68.7	34.3	0.0
55°	100.6	71.0	36.7	0.0
52.5°	105.4	74.6	39.1	0.0
50°	110.1	78.1	41.4	0.0
47.5°	114.8	80.5	42.6	0.0
45°	121.9	84.1	45.0	0.0
42.5°	127.9	86.4	47.4	0.0
40°	133.8	88.8	48.5	0.0
37.5°	139.7	91.2	50.9	0.0
35°	145.6	93.5	52.1	0.0
32.5°	150.3	95.9	53.3	0.0
30°	155.1	98.3	54.5	0.0
27.5°	159.8	99.4	55.6	0.0
25°	163.4	101.8	56.8	0.0
22.5°	166.9	103.0	58.0	0.0
20°	169.3	104.2	59.2	0.0
17.5°	172.8	105.4	60.4	0.0
15°	174.0	106.5	62.7	0.0
12.5°	176.4	107.7	62.7	0.0
10°	177.6	108.9	62.7	0.0
7.5°	179.9	108.9	62.7	0.0
5°	178.8	108.9	62.7	0.0
2.5°	178.8	108.9	62.7	0.0
0°	177.6	108.9	62.7	0.0

(END OF REPORT)