

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: P628475

Luminaire Tested: **IFLD-S-SA3B-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628475
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11628.1 lumens	Max Intensity:	3790.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	95.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

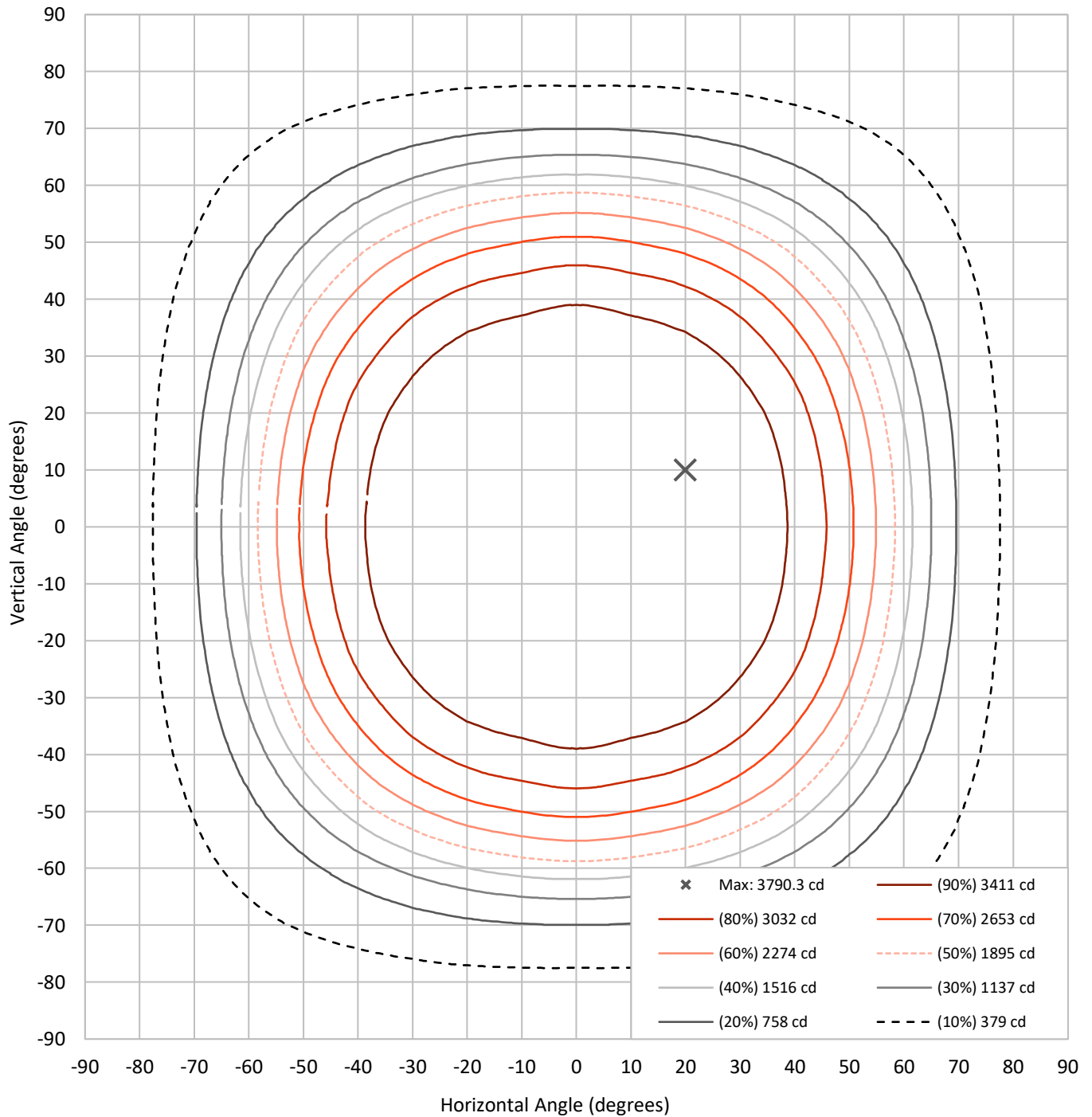
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7135.3 lumens	Field Lumens:	8554 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 122.4
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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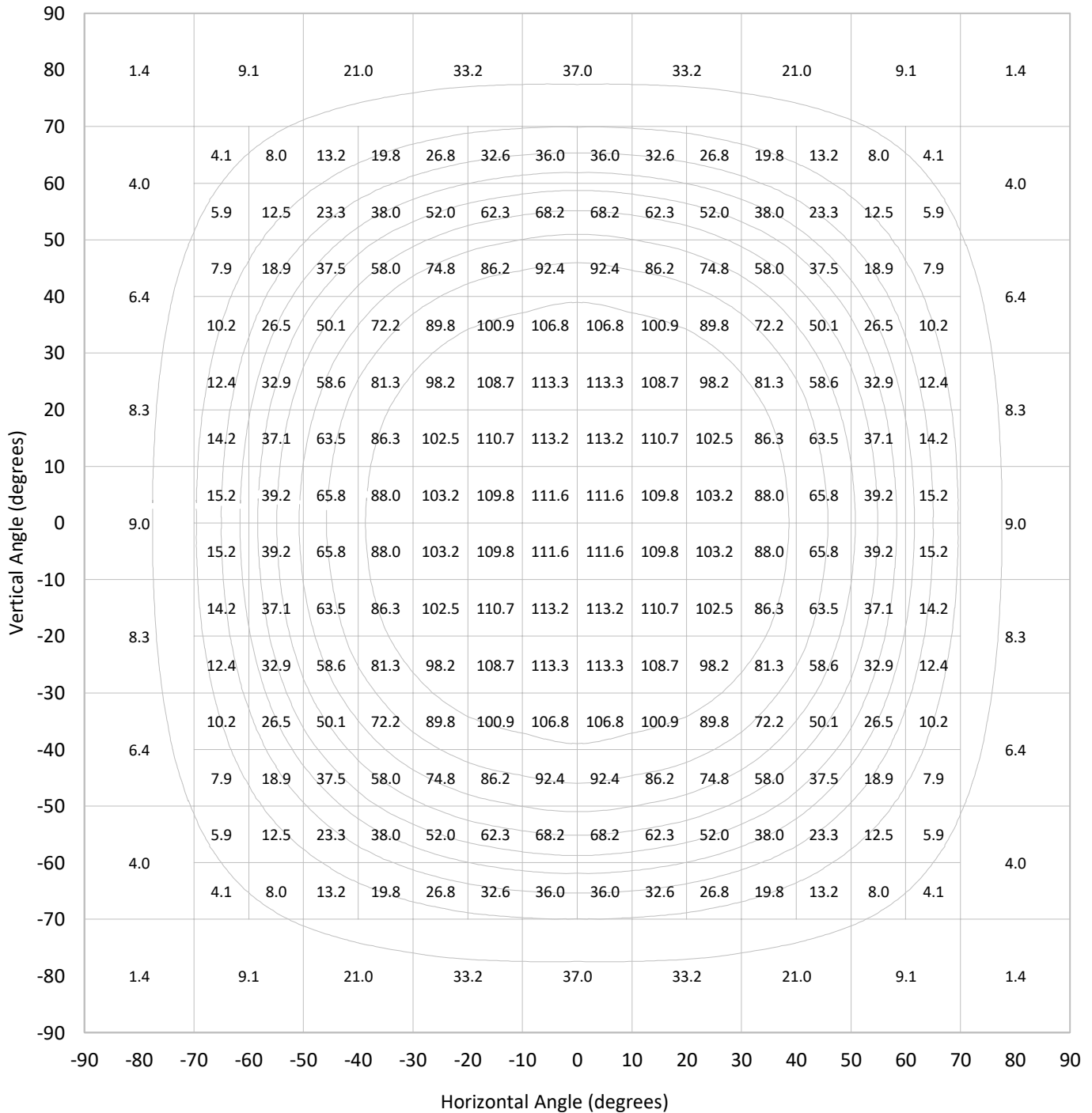
Iso-Candela Plot





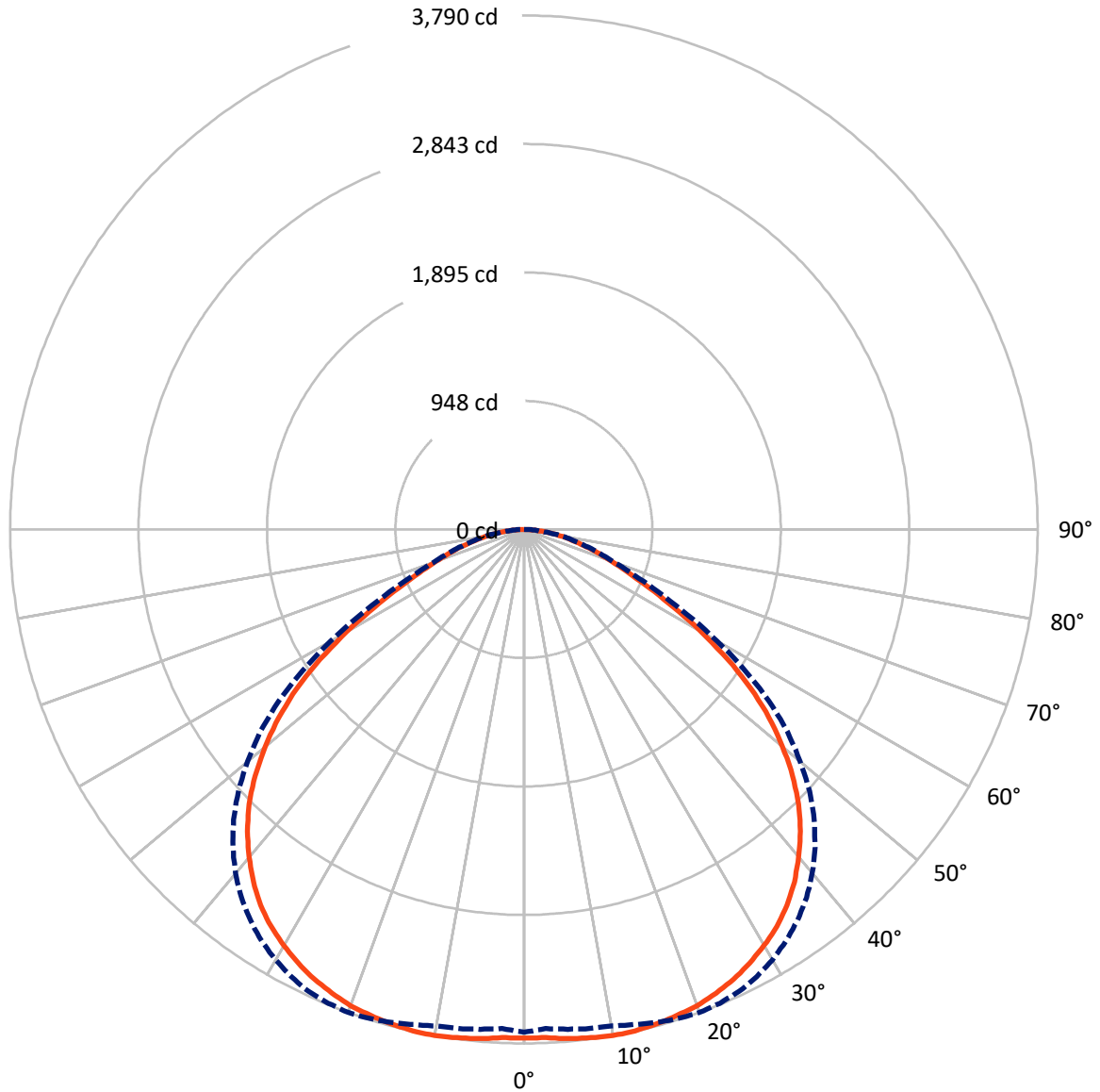
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Lumen Table



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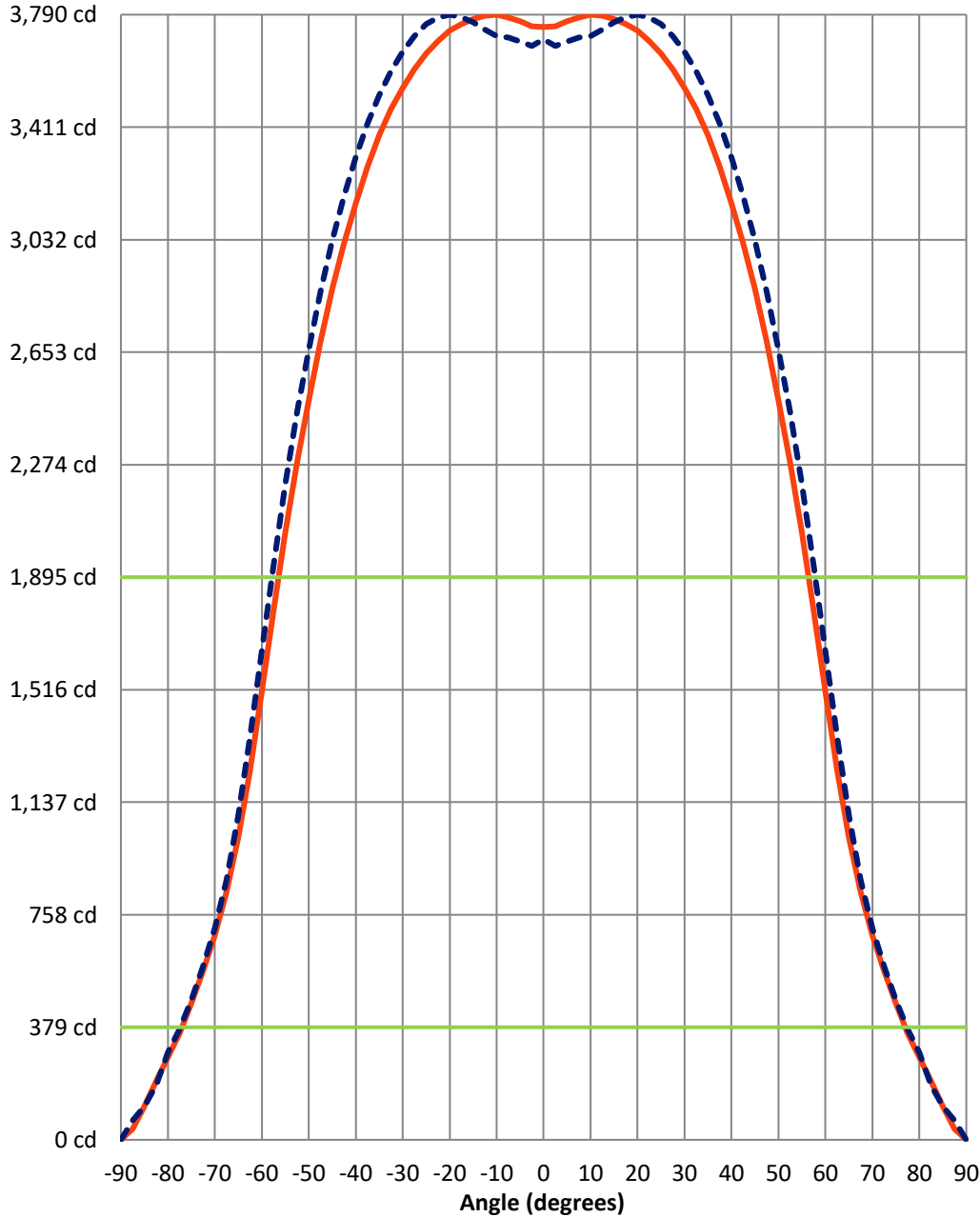
Luminous Intensity Polar Plot



— 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: 7135.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8554
 Efficiency: 73.6%

Spill:
 Lumens: 3074.2
 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°	30.6	33.0	34.3	35.5	36.7	37.9	39.2	37.9	36.7	36.7	35.5
85°	82.0	84.4	85.6	94.2	102.8	107.7	113.8	112.6	112.6	111.3	110.1
82.5°	163.9	171.3	177.4	186.0	190.9	198.2	203.1	199.4	197.0	192.1	188.4
80°	291.2	293.6	294.9	296.1	290.0	288.7	286.3	282.6	277.7	271.6	265.5
77.5°	370.7	373.2	375.6	373.2	371.9	370.7	367.0	363.4	358.5	353.6	346.2
75°	490.6	490.6	490.6	486.9	484.5	480.8	474.7	468.6	460.0	450.2	439.2
72.5°	617.9	616.6	615.4	608.1	601.9	594.6	586.0	578.7	568.9	557.9	543.2
70°	751.2	753.7	754.9	745.1	737.8	728.0	717.0	703.5	688.8	672.9	652.1
67.5°	934.7	932.3	929.8	916.4	906.6	893.1	877.2	857.7	835.6	811.2	781.8
65°	1162.3	1166.0	1158.6	1145.2	1126.8	1104.8	1080.3	1052.2	1019.1	982.4	940.8
62.5°	1437.6	1443.7	1435.1	1418.0	1394.8	1365.4	1331.1	1290.8	1245.5	1194.1	1142.7
60°	1750.8	1749.6	1733.7	1710.4	1679.8	1643.1	1605.2	1561.1	1509.8	1449.8	1387.4
57.5°	2038.3	2035.8	2016.3	1993.0	1962.4	1923.3	1882.9	1836.4	1782.6	1719.0	1646.8
55°	2296.4	2294.0	2274.4	2250.0	2218.1	2179.0	2142.3	2098.2	2045.6	1978.3	1901.3
52.5°	2525.2	2526.5	2509.3	2482.4	2448.2	2410.2	2374.7	2330.7	2280.5	2213.3	2138.6
50°	2735.7	2734.4	2716.1	2691.6	2659.8	2623.1	2587.6	2543.6	2491.0	2426.1	2354.0
47.5°	2931.4	2929.0	2908.2	2881.3	2848.2	2816.4	2783.4	2744.2	2689.2	2624.3	2552.2
45°	3095.4	3090.5	3069.7	3044.0	3012.2	2984.0	2954.7	2925.3	2866.6	2806.6	2738.1
42.5°	3236.1	3234.8	3214.0	3188.4	3156.5	3132.1	3105.2	3068.5	3019.5	2964.5	2897.2
40°	3370.7	3360.9	3340.1	3315.6	3286.2	3265.4	3238.5	3201.8	3154.1	3100.3	3035.4
37.5°	3471.0	3472.2	3450.2	3423.3	3397.6	3378.0	3353.5	3319.3	3277.7	3225.1	3160.2
35°	3566.4	3560.3	3541.9	3518.7	3495.4	3473.4	3447.7	3418.4	3384.1	3335.2	3274.0
32.5°	3628.8	3637.4	3615.3	3590.9	3577.4	3560.3	3533.4	3502.8	3472.2	3423.3	3368.2
30°	3697.3	3690.0	3672.8	3652.0	3642.3	3631.2	3608.0	3578.6	3543.2	3499.1	3447.7
27.5°	3745.0	3741.4	3720.6	3701.0	3696.1	3686.3	3668.0	3642.3	3606.8	3564.0	3516.2
25°	3765.8	3768.3	3748.7	3737.7	3737.7	3731.6	3716.9	3694.9	3659.4	3620.2	3573.7
22.5°	3775.6	3773.2	3759.7	3757.3	3763.4	3758.5	3752.4	3732.8	3701.0	3669.2	3630.0
20°	3781.7	3764.6	3752.4	3762.2	3769.5	3768.3	3763.4	3751.1	3736.5	3709.6	3675.3
17.5°	3768.3	3757.3	3742.6	3757.3	3773.2	3774.4	3769.5	3762.2	3758.5	3741.4	3710.8
15°	3735.2	3726.7	3729.1	3743.8	3762.2	3768.3	3771.9	3780.5	3775.6	3762.2	3735.2
12.5°	3713.2	3702.2	3713.2	3727.9	3737.7	3741.4	3770.7	3786.6	3786.6	3774.4	3757.3
10°	3707.1	3685.1	3699.8	3713.2	3718.1	3740.1	3764.6	3781.7	3790.3	3780.5	3758.5
7.5°	3694.9	3680.2	3686.3	3692.4	3720.6	3736.5	3749.9	3768.3	3780.5	3779.3	3759.7
5°	3688.8	3670.4	3672.8	3698.5	3718.1	3729.1	3734.0	3749.9	3768.3	3771.9	3757.3
2.5°	3672.8	3664.3	3682.6	3685.1	3699.8	3708.3	3713.2	3727.9	3751.1	3759.7	3753.6
0°	3664.3	3652.0	3639.8	3649.6	3674.1	3692.4	3699.8	3721.8	3748.7	3757.3	3743.8



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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°	34.3	33.0	31.8	30.6	31.8	31.8	31.8	30.6	31.8	30.6	30.6
85°	106.4	101.5	97.9	93.0	88.1	84.4	79.5	74.6	73.4	72.2	69.7
82.5°	183.5	177.4	171.3	163.9	156.6	148.0	139.5	129.7	127.2	124.8	121.1
80°	258.2	249.6	241.0	232.5	225.1	216.6	206.8	195.8	188.4	182.3	175.0
77.5°	336.5	324.2	312.0	297.3	288.7	280.2	270.4	259.4	248.4	238.6	227.6
75°	425.8	412.3	400.1	385.4	369.5	353.6	337.7	323.0	307.1	292.4	277.7
72.5°	524.9	505.3	485.7	467.4	447.8	428.2	407.4	387.8	368.3	348.7	327.9
70°	628.9	604.4	579.9	555.5	529.8	504.1	479.6	455.1	430.7	405.0	381.7
67.5°	751.2	723.1	691.3	657.0	619.1	586.0	554.2	524.9	495.5	466.1	436.8
65°	904.1	865.0	822.2	775.7	731.6	687.6	641.1	597.1	562.8	528.5	495.5
62.5°	1092.6	1037.5	977.5	917.6	863.8	806.3	752.4	694.9	641.1	592.2	551.8
60°	1317.7	1243.0	1169.6	1092.6	1017.9	939.6	871.1	800.1	732.9	672.9	614.2
57.5°	1566.0	1479.2	1391.1	1296.9	1195.3	1103.6	1010.6	917.6	838.1	758.5	692.5
55°	1818.1	1726.3	1627.2	1520.8	1409.4	1292.0	1166.0	1062.0	953.1	860.1	774.5
52.5°	2057.9	1962.4	1859.7	1761.8	1628.4	1493.9	1355.6	1218.6	1091.3	972.7	868.7
50°	2272.0	2179.0	2079.9	1966.1	1842.5	1699.4	1545.2	1391.1	1240.6	1101.1	971.4
47.5°	2467.7	2377.2	2278.1	2164.3	2051.8	1892.7	1737.3	1567.3	1399.6	1239.4	1087.7
45°	2651.3	2559.5	2456.7	2347.8	2218.1	2076.2	1915.9	1744.7	1564.8	1385.0	1210.0
42.5°	2817.6	2725.9	2621.9	2509.3	2380.9	2240.2	2084.8	1912.3	1731.2	1535.5	1343.4
40°	2963.2	2873.9	2773.6	2656.1	2536.2	2388.2	2235.3	2071.3	1884.1	1687.2	1475.5
37.5°	3090.5	3007.3	2908.2	2792.0	2664.7	2532.6	2374.7	2210.8	2042.0	1827.9	1611.3
35°	3203.0	3126.0	3024.4	2914.3	2789.5	2650.0	2502.0	2341.7	2159.4	1958.8	1748.3
32.5°	3300.9	3222.6	3129.6	3019.5	2898.4	2767.5	2615.8	2454.3	2281.8	2077.4	1848.7
30°	3384.1	3308.3	3220.2	3116.2	2999.9	2870.3	2722.2	2559.5	2383.3	2180.2	1953.9
27.5°	3456.3	3384.1	3298.5	3201.8	3090.5	2965.7	2816.4	2652.5	2472.6	2276.9	2050.5
25°	3518.7	3449.0	3369.4	3277.7	3167.6	3045.2	2904.5	2733.2	2553.4	2356.4	2132.5
22.5°	3575.0	3507.7	3428.2	3338.8	3238.5	3116.2	2974.2	2804.2	2621.9	2427.4	2207.1
20°	3625.1	3562.7	3484.4	3392.7	3292.3	3168.8	3028.1	2866.6	2683.1	2492.2	2274.4
17.5°	3665.5	3610.5	3532.1	3435.5	3335.2	3215.3	3078.2	2930.2	2735.7	2547.3	2330.7
15°	3693.6	3639.8	3568.9	3471.0	3373.1	3254.4	3117.4	2964.5	2783.4	2591.3	2377.2
12.5°	3713.2	3655.7	3589.7	3499.1	3401.2	3283.8	3150.4	2999.9	2823.8	2630.5	2417.6
10°	3718.1	3665.5	3599.4	3518.7	3423.3	3309.5	3178.6	3029.3	2856.8	2661.0	2450.6
7.5°	3720.6	3670.4	3610.5	3533.4	3439.2	3329.1	3199.4	3052.5	2881.3	2686.7	2475.1
5°	3719.3	3671.6	3617.8	3543.2	3449.0	3340.1	3212.8	3068.5	2898.4	2703.9	2493.4
2.5°	3715.7	3672.8	3622.7	3550.5	3460.0	3352.3	3226.3	3086.8	2916.7	2718.5	2508.1
0°	3725.5	3688.8	3625.1	3548.1	3462.4	3352.3	3225.1	3089.3	2919.2	2717.3	2506.9



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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°	30.6	29.4	29.4	28.1	26.9	25.7	23.2	22.0	19.6	15.9	12.2
85°	66.1	62.4	58.7	56.3	53.8	51.4	47.7	44.0	39.2	31.8	24.5
82.5°	116.2	108.9	101.5	93.0	85.6	78.3	72.2	66.1	58.7	47.7	36.7
80°	166.4	155.4	144.4	132.1	121.1	108.9	97.9	88.1	78.3	63.6	48.9
77.5°	216.6	201.9	186.0	171.3	155.4	139.5	123.6	110.1	95.4	78.3	61.2
75°	263.0	245.9	231.2	210.4	190.9	170.1	149.3	130.9	112.6	91.8	73.4
72.5°	309.5	287.5	266.7	247.1	225.1	199.4	176.2	152.9	129.7	105.2	83.2
70°	356.0	329.1	303.4	280.2	255.7	230.0	201.9	175.0	146.8	117.5	91.8
67.5°	403.7	373.2	343.8	314.4	286.3	256.9	227.6	197.0	163.9	129.7	101.5
65°	456.4	418.4	382.9	349.9	316.9	285.1	252.0	219.0	182.3	143.1	110.1
62.5°	509.0	467.4	425.8	384.2	347.5	312.0	276.5	239.8	199.4	157.8	118.7
60°	565.2	517.5	469.8	423.3	378.1	338.9	299.7	260.6	217.8	171.3	127.2
57.5°	627.6	570.1	516.3	463.7	412.3	365.8	323.0	281.4	233.7	184.7	137.0
55°	698.6	627.6	564.0	505.3	449.0	392.7	346.2	303.4	252.0	198.2	148.0
52.5°	773.2	691.3	614.2	548.1	488.2	424.5	368.3	320.5	270.4	211.7	157.8
50°	860.1	756.1	670.5	589.7	522.4	456.4	391.5	340.1	288.7	227.6	167.6
47.5°	949.4	834.4	726.7	638.6	559.1	486.9	418.4	357.3	305.9	242.2	177.4
45°	1053.4	909.0	790.4	686.4	594.6	518.7	445.3	375.6	320.5	256.9	187.2
42.5°	1153.7	997.1	856.4	739.0	635.0	549.3	469.8	395.2	335.2	271.6	195.8
40°	1272.4	1085.2	920.0	789.1	675.4	578.7	494.3	416.0	348.7	285.1	204.3
37.5°	1386.2	1174.5	997.1	844.2	714.5	608.1	518.7	435.6	360.9	298.5	215.3
35°	1498.7	1273.6	1070.5	895.6	754.9	641.1	543.2	453.9	373.2	309.5	225.1
32.5°	1606.4	1366.6	1145.2	953.1	798.9	671.7	565.2	471.0	385.4	319.3	234.9
30°	1706.7	1454.7	1218.6	1011.8	839.3	699.8	586.0	488.2	400.1	327.9	244.7
27.5°	1798.5	1540.3	1292.0	1066.9	877.2	725.5	608.1	504.1	412.3	336.5	253.3
25°	1881.7	1617.4	1359.3	1117.0	911.5	753.7	628.9	520.0	423.3	343.8	260.6
22.5°	1960.0	1688.4	1420.4	1167.2	953.1	781.8	648.4	534.7	434.3	351.1	267.9
20°	2028.5	1753.2	1479.2	1217.3	989.8	807.5	665.6	548.1	444.1	356.0	275.3
17.5°	2083.6	1810.7	1531.8	1261.4	1021.6	829.5	680.2	560.3	452.7	362.1	280.2
15°	2132.5	1859.7	1575.8	1299.3	1049.7	847.9	693.7	570.1	460.0	365.8	286.3
12.5°	2174.1	1901.3	1613.8	1332.4	1074.2	863.8	704.7	577.5	466.1	369.5	290.0
10°	2208.4	1934.3	1645.6	1358.0	1093.8	876.0	713.3	584.8	471.0	373.2	293.6
7.5°	2234.1	1958.8	1668.8	1380.1	1109.7	884.6	720.6	589.7	475.9	375.6	299.7
5°	2253.6	1979.6	1687.2	1394.8	1121.9	896.8	729.2	595.8	480.8	378.1	299.7
2.5°	2268.3	1996.7	1701.8	1407.0	1131.7	894.4	729.2	594.6	480.8	378.1	298.5
0°	2265.9	1997.9	1700.6	1407.0	1131.7	891.9	729.2	593.4	480.8	378.1	298.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.6	6.1	2.4	0.0
85°	18.4	12.2	6.1	0.0
82.5°	26.9	17.1	8.6	0.0
80°	35.5	23.2	11.0	0.0
77.5°	45.3	29.4	14.7	0.0
75°	53.8	34.3	17.1	0.0
72.5°	62.4	40.4	19.6	0.0
70°	69.7	45.3	22.0	0.0
67.5°	77.1	51.4	25.7	0.0
65°	83.2	56.3	28.1	0.0
62.5°	88.1	62.4	30.6	0.0
60°	94.2	67.3	33.0	0.0
57.5°	99.1	71.0	35.5	0.0
55°	104.0	73.4	37.9	0.0
52.5°	108.9	77.1	40.4	0.0
50°	113.8	80.7	42.8	0.0
47.5°	118.7	83.2	44.0	0.0
45°	126.0	86.9	46.5	0.0
42.5°	132.1	89.3	48.9	0.0
40°	138.3	91.8	50.2	0.0
37.5°	144.4	94.2	52.6	0.0
35°	150.5	96.7	53.8	0.0
32.5°	155.4	99.1	55.1	0.0
30°	160.3	101.5	56.3	0.0
27.5°	165.2	102.8	57.5	0.0
25°	168.8	105.2	58.7	0.0
22.5°	172.5	106.4	59.9	0.0
20°	175.0	107.7	61.2	0.0
17.5°	178.6	108.9	62.4	0.0
15°	179.8	110.1	64.8	0.0
12.5°	182.3	111.3	64.8	0.0
10°	183.5	112.6	64.8	0.0
7.5°	186.0	112.6	64.8	0.0
5°	184.7	112.6	64.8	0.0
2.5°	184.7	112.6	64.8	0.0
0°	183.5	112.6	64.8	0.0

(END OF REPORT)