

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: P628415

Luminaire Tested: **IFLD-S-SA2E-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628415
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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

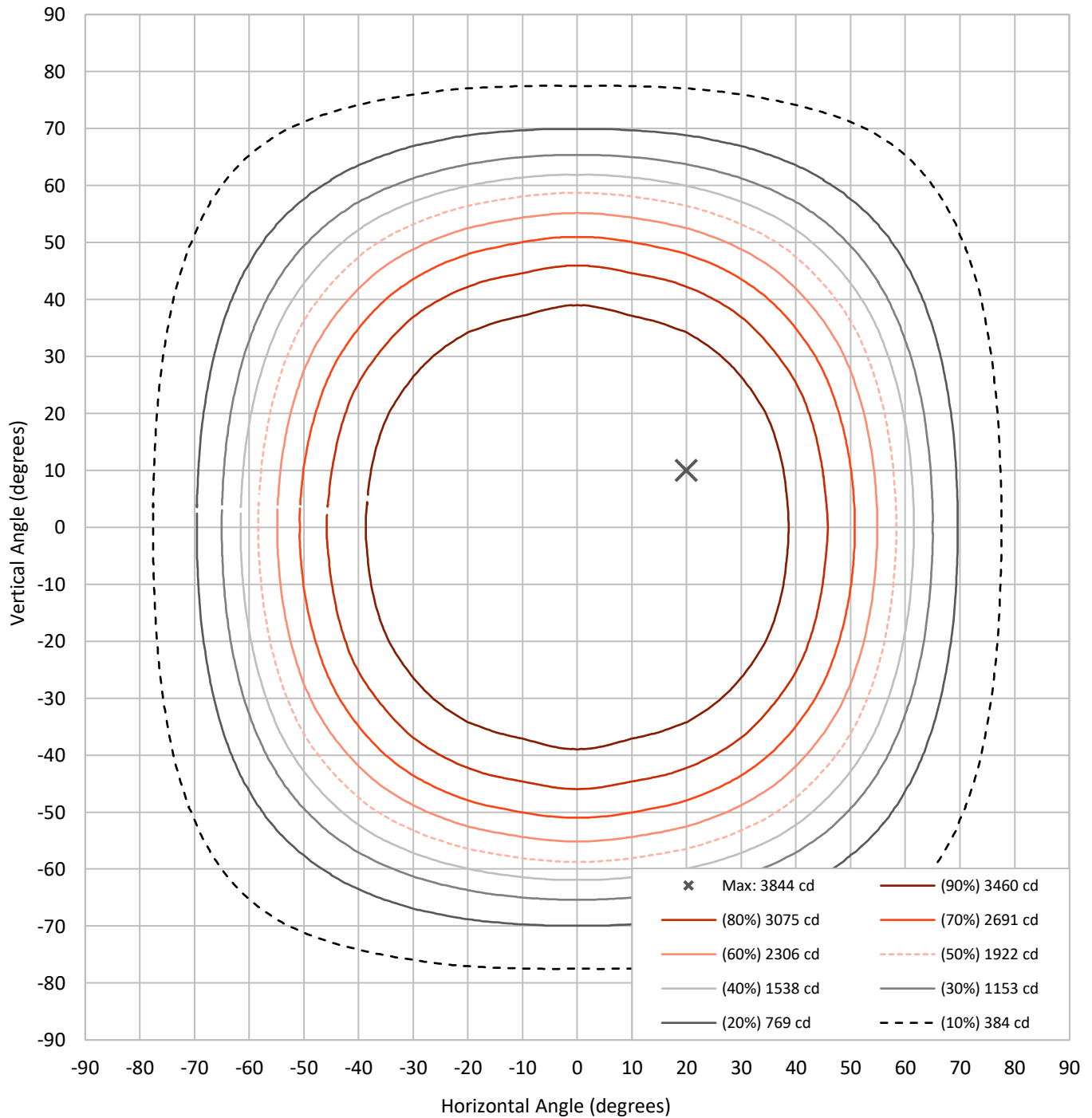
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11793 lumens	Max Intensity:	3844 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	75.5 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:	7236.4 lumens	Field Lumens:	8675.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	156.2		
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		



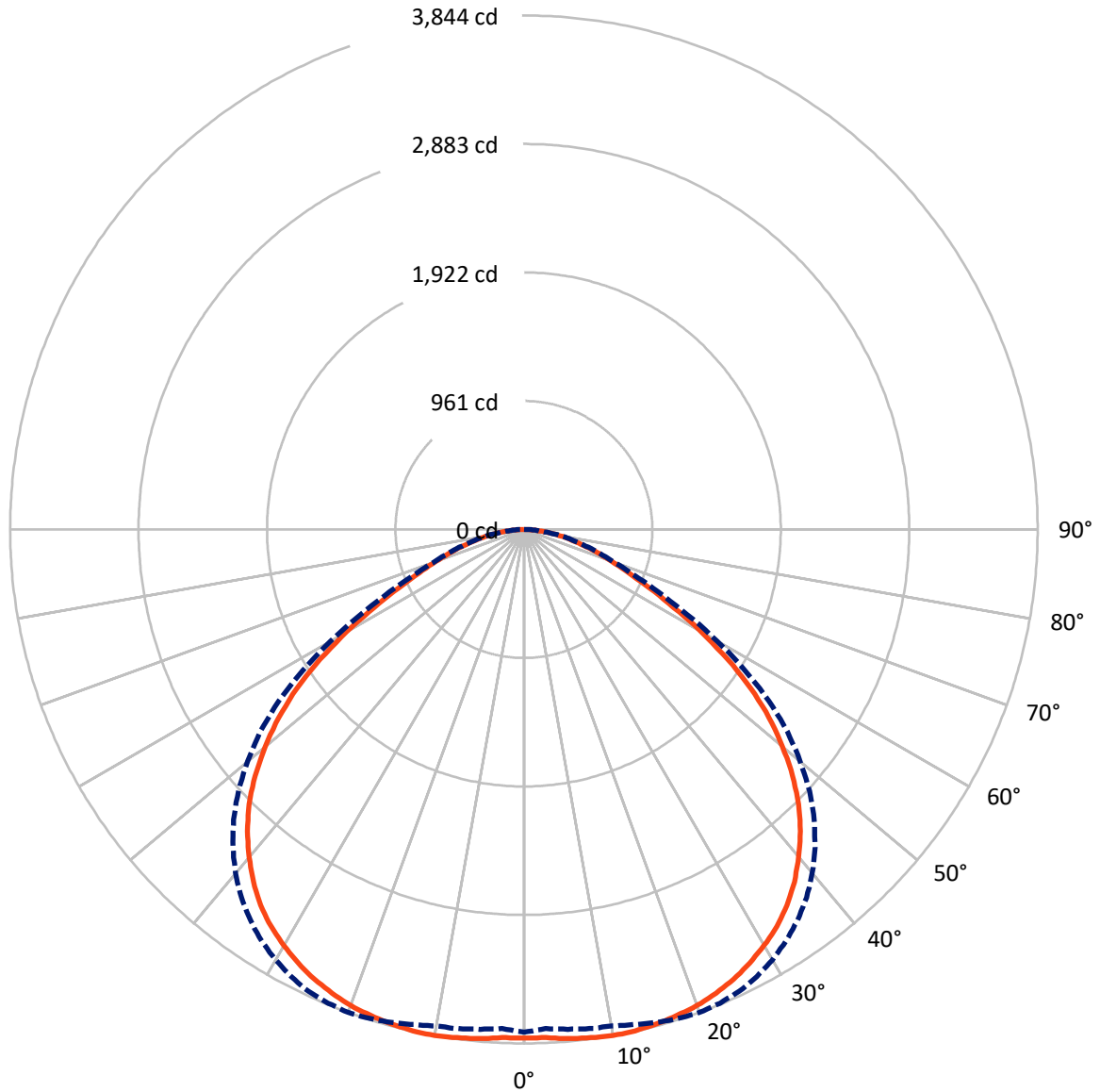
REPORT NUMBER: P628415
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Iso-Candela Plot



REPORT NUMBER: P628415
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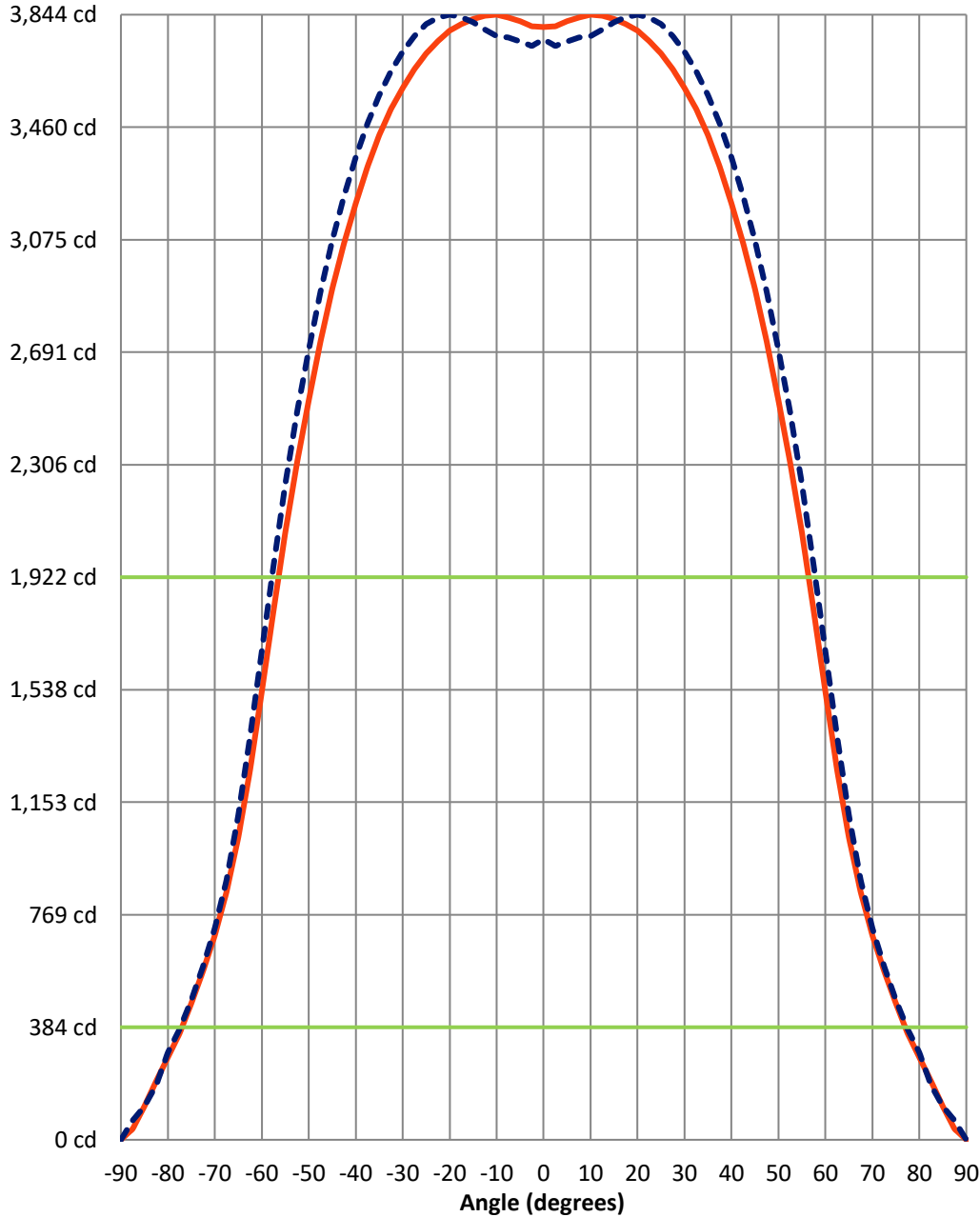
Luminous Intensity Polar Plot



— 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: 7236.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8675.2
 Efficiency: 73.6%

Spill:
 Lumens: 3117.7
 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°	31.0	33.5	34.7	36.0	37.2	38.5	39.7	38.5	37.2	37.2	36.0
85°	83.1	85.6	86.9	95.5	104.2	109.2	115.4	114.2	112.9	112.9	111.7
82.5°	166.3	173.7	179.9	188.6	193.6	201.0	206.0	202.3	199.8	194.8	191.1
80°	295.3	297.8	299.0	300.3	294.1	292.8	290.3	286.6	281.7	275.5	269.3
77.5°	376.0	378.4	380.9	378.4	377.2	376.0	372.2	368.5	363.6	358.6	351.1
75°	497.6	497.6	497.6	493.8	491.4	487.6	481.4	475.2	466.5	456.6	445.5
72.5°	626.6	625.4	624.1	616.7	610.5	603.0	594.3	586.9	577.0	565.8	550.9
70°	761.9	764.3	765.6	755.7	748.2	738.3	727.1	713.5	698.6	682.4	661.4
67.5°	948.0	945.5	943.0	929.4	919.4	905.8	889.7	869.8	847.5	822.7	792.9
65°	1178.8	1182.5	1175.0	1161.4	1142.8	1120.5	1095.6	1067.1	1033.6	996.4	954.2
62.5°	1458.0	1464.2	1455.5	1438.1	1414.5	1384.7	1350.0	1309.1	1263.1	1211.0	1158.9
60°	1775.6	1774.4	1758.2	1734.7	1703.6	1666.4	1627.9	1583.3	1531.2	1470.4	1407.1
57.5°	2067.2	2064.7	2044.9	2021.3	1990.3	1950.6	1909.6	1862.5	1807.9	1743.3	1670.1
55°	2329.0	2326.5	2306.7	2281.9	2249.6	2209.9	2172.7	2128.0	2074.6	2006.4	1928.2
52.5°	2561.0	2562.3	2544.9	2517.6	2482.9	2444.4	2408.4	2363.7	2312.9	2244.6	2168.9
50°	2774.5	2773.2	2754.6	2729.8	2697.5	2660.3	2624.3	2579.6	2526.3	2460.5	2387.3
47.5°	2973.0	2970.5	2949.4	2922.1	2888.6	2856.3	2822.8	2783.1	2727.3	2661.5	2588.3
45°	3139.3	3134.3	3113.2	3087.1	3054.9	3026.3	2996.6	2966.8	2907.2	2846.4	2776.9
42.5°	3281.9	3280.7	3259.6	3233.6	3201.3	3176.5	3149.2	3112.0	3062.3	3006.5	2938.2
40°	3418.4	3408.5	3387.4	3362.6	3332.8	3311.7	3284.4	3247.2	3198.8	3144.2	3078.5
37.5°	3520.2	3521.4	3499.1	3471.8	3445.7	3425.9	3401.1	3366.3	3324.1	3270.8	3205.0
35°	3617.0	3610.8	3592.1	3568.6	3545.0	3522.7	3496.6	3466.8	3432.1	3382.5	3320.4
32.5°	3680.2	3688.9	3666.6	3641.8	3628.1	3610.8	3583.5	3552.4	3521.4	3471.8	3416.0
30°	3749.7	3742.3	3724.9	3703.8	3693.9	3682.7	3659.2	3629.4	3593.4	3548.7	3496.6
27.5°	3798.1	3794.4	3773.3	3753.5	3748.5	3738.6	3720.0	3693.9	3657.9	3614.5	3566.1
25°	3819.2	3821.7	3801.8	3790.7	3790.7	3784.5	3769.6	3747.3	3711.3	3671.6	3624.4
22.5°	3829.1	3826.7	3813.0	3810.5	3816.7	3811.8	3805.6	3785.7	3753.5	3721.2	3681.5
20°	3835.3	3818.0	3805.6	3815.5	3822.9	3821.7	3816.7	3804.3	3789.4	3762.1	3727.4
17.5°	3821.7	3810.5	3795.6	3810.5	3826.7	3827.9	3822.9	3815.5	3811.8	3794.4	3763.4
15°	3788.2	3779.5	3782.0	3796.9	3815.5	3821.7	3825.4	3834.1	3829.1	3815.5	3788.2
12.5°	3765.9	3754.7	3765.9	3780.8	3790.7	3794.4	3824.2	3840.3	3840.3	3827.9	3810.5
10°	3759.7	3737.3	3752.2	3765.9	3770.8	3793.2	3818.0	3835.3	3844.0	3834.1	3811.8
7.5°	3747.3	3732.4	3738.6	3744.8	3773.3	3789.4	3803.1	3821.7	3834.1	3832.9	3813.0
5°	3741.0	3722.4	3724.9	3751.0	3770.8	3782.0	3787.0	3803.1	3821.7	3825.4	3810.5
2.5°	3724.9	3716.2	3734.8	3737.3	3752.2	3760.9	3765.9	3780.8	3804.3	3813.0	3806.8
0°	3716.2	3703.8	3691.4	3701.3	3726.2	3744.8	3752.2	3774.5	3801.8	3810.5	3796.9



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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°	34.7	33.5	32.3	31.0	32.3	32.3	32.3	31.0	32.3	31.0	31.0
85°	108.0	103.0	99.3	94.3	89.3	85.6	80.7	75.7	74.4	73.2	70.7
82.5°	186.1	179.9	173.7	166.3	158.8	150.1	141.5	131.5	129.0	126.6	122.8
80°	261.8	253.1	244.4	235.8	228.3	219.6	209.7	198.5	191.1	184.9	177.4
77.5°	341.2	328.8	316.4	301.5	292.8	284.1	274.2	263.1	251.9	242.0	230.8
75°	431.8	418.2	405.7	390.9	374.7	358.6	342.5	327.6	311.4	296.6	281.7
72.5°	532.3	512.5	492.6	474.0	454.1	434.3	413.2	393.3	373.5	353.6	332.5
70°	637.8	613.0	588.1	563.3	537.3	511.2	486.4	461.6	436.8	410.7	387.1
67.5°	761.9	733.3	701.1	666.3	627.9	594.3	562.1	532.3	502.5	472.7	443.0
65°	917.0	877.3	833.8	786.7	742.0	697.3	650.2	605.5	570.8	536.0	502.5
62.5°	1108.0	1052.2	991.4	930.6	876.0	817.7	763.1	704.8	650.2	600.6	559.6
60°	1336.4	1260.7	1186.2	1108.0	1032.4	952.9	883.5	811.5	743.2	682.4	622.9
57.5°	1588.2	1500.1	1410.8	1315.3	1212.3	1119.2	1024.9	930.6	850.0	769.3	702.3
55°	1843.8	1750.8	1650.3	1542.3	1429.4	1310.3	1182.5	1077.0	966.6	872.3	785.4
52.5°	2087.0	1990.3	1886.0	1786.8	1651.5	1515.0	1374.8	1235.8	1106.8	986.4	881.0
50°	2304.2	2209.9	2109.4	1994.0	1868.7	1723.5	1567.1	1410.8	1258.2	1116.7	985.2
47.5°	2502.7	2410.9	2310.4	2195.0	2080.8	1919.5	1762.0	1589.5	1419.5	1256.9	1103.1
45°	2688.8	2595.8	2491.5	2381.1	2249.6	2105.7	1943.1	1769.4	1587.0	1404.6	1227.2
42.5°	2857.6	2764.5	2659.1	2544.9	2414.6	2271.9	2114.3	1939.4	1755.7	1557.2	1362.4
40°	3005.2	2914.7	2812.9	2693.8	2572.2	2422.1	2267.0	2100.7	1910.8	1711.1	1496.4
37.5°	3134.3	3049.9	2949.4	2831.5	2702.5	2568.5	2408.4	2242.1	2070.9	1853.8	1634.1
35°	3248.4	3170.3	3067.3	2955.6	2829.1	2687.6	2537.5	2374.9	2190.0	1986.5	1773.1
32.5°	3347.7	3268.3	3174.0	3062.3	2939.5	2806.7	2652.9	2489.1	2314.1	2106.9	1874.9
30°	3432.1	3355.2	3265.8	3160.3	3042.5	2910.9	2760.8	2595.8	2417.1	2211.1	1981.6
27.5°	3505.3	3432.1	3345.2	3247.2	3134.3	3007.7	2856.3	2690.1	2507.7	2309.2	2079.6
25°	3568.6	3497.8	3417.2	3324.1	3212.5	3088.4	2945.7	2772.0	2589.6	2389.8	2162.7
22.5°	3625.7	3557.4	3476.8	3386.2	3284.4	3160.3	3016.4	2843.9	2659.1	2461.8	2238.4
20°	3676.5	3613.2	3533.8	3440.8	3339.0	3213.7	3071.0	2907.2	2721.1	2527.5	2306.7
17.5°	3717.5	3661.6	3582.2	3484.2	3382.5	3260.9	3121.9	2971.7	2774.5	2583.4	2363.7
15°	3746.0	3691.4	3619.4	3520.2	3420.9	3300.6	3161.6	3006.5	2822.8	2628.0	2410.9
12.5°	3765.9	3707.5	3640.5	3548.7	3449.5	3330.3	3195.1	3042.5	2863.8	2667.7	2451.8
10°	3770.8	3717.5	3650.5	3568.6	3471.8	3356.4	3223.6	3072.2	2897.3	2698.8	2485.3
7.5°	3773.3	3722.4	3661.6	3583.5	3487.9	3376.2	3244.7	3095.8	2922.1	2724.8	2510.2
5°	3772.1	3723.7	3669.1	3593.4	3497.8	3387.4	3258.4	3112.0	2939.5	2742.2	2528.8
2.5°	3768.3	3724.9	3674.0	3600.8	3509.0	3399.8	3272.0	3130.6	2958.1	2757.1	2543.7
0°	3778.3	3741.0	3676.5	3598.4	3511.5	3399.8	3270.8	3133.0	2960.6	2755.8	2542.4



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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°	31.0	29.8	29.8	28.5	27.3	26.1	23.6	22.3	19.9	16.1	12.4
85°	67.0	63.3	59.6	57.1	54.6	52.1	48.4	44.7	39.7	32.3	24.8
82.5°	117.9	110.4	103.0	94.3	86.9	79.4	73.2	67.0	59.6	48.4	37.2
80°	168.8	157.6	146.4	134.0	122.8	110.4	99.3	89.3	79.4	64.5	49.6
77.5°	219.6	204.7	188.6	173.7	157.6	141.5	125.3	111.7	96.8	79.4	62.0
75°	266.8	249.4	234.5	213.4	193.6	172.5	151.4	132.8	114.2	93.1	74.4
72.5°	313.9	291.6	270.5	250.6	228.3	202.3	178.7	155.1	131.5	106.7	84.4
70°	361.1	333.8	307.7	284.1	259.3	233.3	204.7	177.4	148.9	119.1	93.1
67.5°	409.5	378.4	348.7	318.9	290.3	260.6	230.8	199.8	166.3	131.5	103.0
65°	462.8	424.4	388.4	354.9	321.4	289.1	255.6	222.1	184.9	145.2	111.7
62.5°	516.2	474.0	431.8	389.6	352.4	316.4	280.4	243.2	202.3	160.1	120.4
60°	573.3	524.9	476.5	429.3	383.4	343.7	304.0	264.3	220.9	173.7	129.0
57.5°	636.5	578.2	523.6	470.3	418.2	371.0	327.6	285.4	237.0	187.4	139.0
55°	708.5	636.5	572.0	512.5	455.4	398.3	351.1	307.7	255.6	201.0	150.1
52.5°	784.2	701.1	622.9	555.9	495.1	430.6	373.5	325.1	274.2	214.7	160.1
50°	872.3	766.8	680.0	598.1	529.8	462.8	397.1	344.9	292.8	230.8	170.0
47.5°	962.9	846.2	737.0	647.7	567.1	493.8	424.4	362.3	310.2	245.7	179.9
45°	1068.3	921.9	801.6	696.1	603.0	526.1	451.7	380.9	325.1	260.6	189.8
42.5°	1170.1	1011.3	868.6	749.5	644.0	557.1	476.5	400.8	340.0	275.5	198.5
40°	1290.4	1100.6	933.1	800.3	684.9	586.9	501.3	421.9	353.6	289.1	207.2
37.5°	1405.8	1191.2	1011.3	856.2	724.6	616.7	526.1	441.7	366.0	302.8	218.4
35°	1520.0	1291.7	1085.7	908.3	765.6	650.2	550.9	460.3	378.4	313.9	228.3
32.5°	1629.2	1386.0	1161.4	966.6	810.2	681.2	573.3	477.7	390.9	323.9	238.2
30°	1730.9	1475.3	1235.8	1026.2	851.2	709.7	594.3	495.1	405.7	332.5	248.2
27.5°	1824.0	1562.2	1310.3	1082.0	889.7	735.8	616.7	511.2	418.2	341.2	256.8
25°	1908.4	1640.4	1378.5	1132.9	924.4	764.3	637.8	527.3	429.3	348.7	264.3
22.5°	1987.8	1712.3	1440.6	1183.7	966.6	792.9	657.6	542.2	440.5	356.1	271.7
20°	2057.3	1778.1	1500.1	1234.6	1003.8	818.9	675.0	555.9	450.4	361.1	279.2
17.5°	2113.1	1836.4	1553.5	1279.3	1036.1	841.3	689.9	568.3	459.1	367.3	284.1
15°	2162.7	1886.0	1598.2	1317.7	1064.6	859.9	703.5	578.2	466.5	371.0	290.3
12.5°	2204.9	1928.2	1636.6	1351.2	1089.4	876.0	714.7	585.7	472.7	374.7	294.1
10°	2239.7	1961.7	1668.9	1377.3	1109.3	888.4	723.4	593.1	477.7	378.4	297.8
7.5°	2265.7	1986.5	1692.5	1399.6	1125.4	897.1	730.8	598.1	482.7	380.9	304.0
5°	2285.6	2007.6	1711.1	1414.5	1137.8	909.5	739.5	604.3	487.6	383.4	304.0
2.5°	2300.5	2025.0	1726.0	1426.9	1147.8	907.0	739.5	603.0	487.6	383.4	302.8
0°	2298.0	2026.2	1724.7	1426.9	1147.8	904.6	739.5	601.8	487.6	383.4	302.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.7	6.2	2.5	0.0
85°	18.6	12.4	6.2	0.0
82.5°	27.3	17.4	8.7	0.0
80°	36.0	23.6	11.2	0.0
77.5°	45.9	29.8	14.9	0.0
75°	54.6	34.7	17.4	0.0
72.5°	63.3	40.9	19.9	0.0
70°	70.7	45.9	22.3	0.0
67.5°	78.2	52.1	26.1	0.0
65°	84.4	57.1	28.5	0.0
62.5°	89.3	63.3	31.0	0.0
60°	95.5	68.2	33.5	0.0
57.5°	100.5	72.0	36.0	0.0
55°	105.5	74.4	38.5	0.0
52.5°	110.4	78.2	40.9	0.0
50°	115.4	81.9	43.4	0.0
47.5°	120.4	84.4	44.7	0.0
45°	127.8	88.1	47.2	0.0
42.5°	134.0	90.6	49.6	0.0
40°	140.2	93.1	50.9	0.0
37.5°	146.4	95.5	53.4	0.0
35°	152.6	98.0	54.6	0.0
32.5°	157.6	100.5	55.8	0.0
30°	162.5	103.0	57.1	0.0
27.5°	167.5	104.2	58.3	0.0
25°	171.2	106.7	59.6	0.0
22.5°	175.0	108.0	60.8	0.0
20°	177.4	109.2	62.0	0.0
17.5°	181.2	110.4	63.3	0.0
15°	182.4	111.7	65.8	0.0
12.5°	184.9	112.9	65.8	0.0
10°	186.1	114.2	65.8	0.0
7.5°	188.6	114.2	65.8	0.0
5°	187.4	114.2	65.8	0.0
2.5°	187.4	114.2	65.8	0.0
0°	186.1	114.2	65.8	0.0

(END OF REPORT)