

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: P628184

Luminaire Tested: **IFLD-S-SA3A-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628184
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

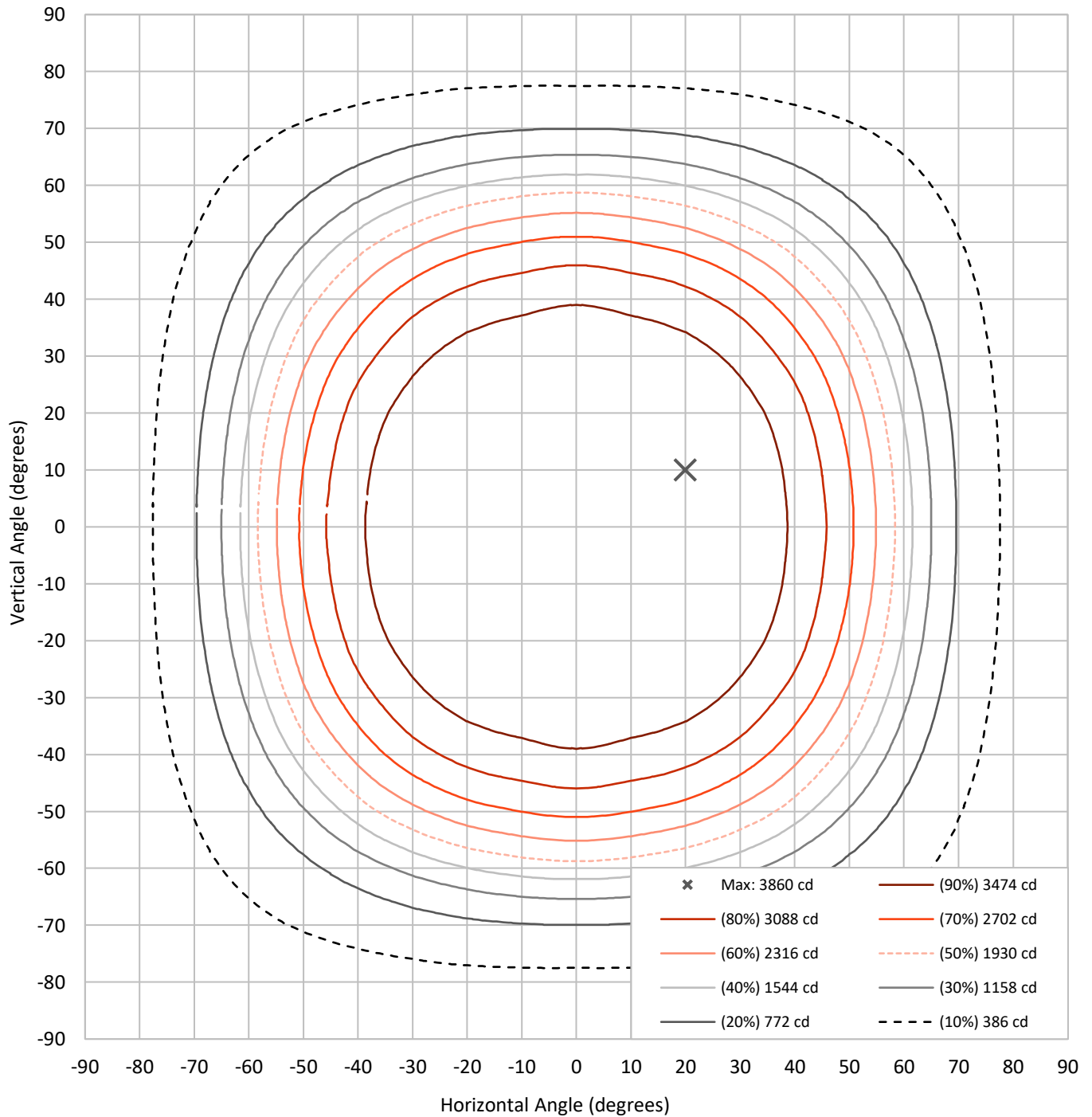
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11841.9 lumens	Max Intensity:	3860 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	124.9 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:	7266.4 lumens	Field Lumens:	8711.2 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		



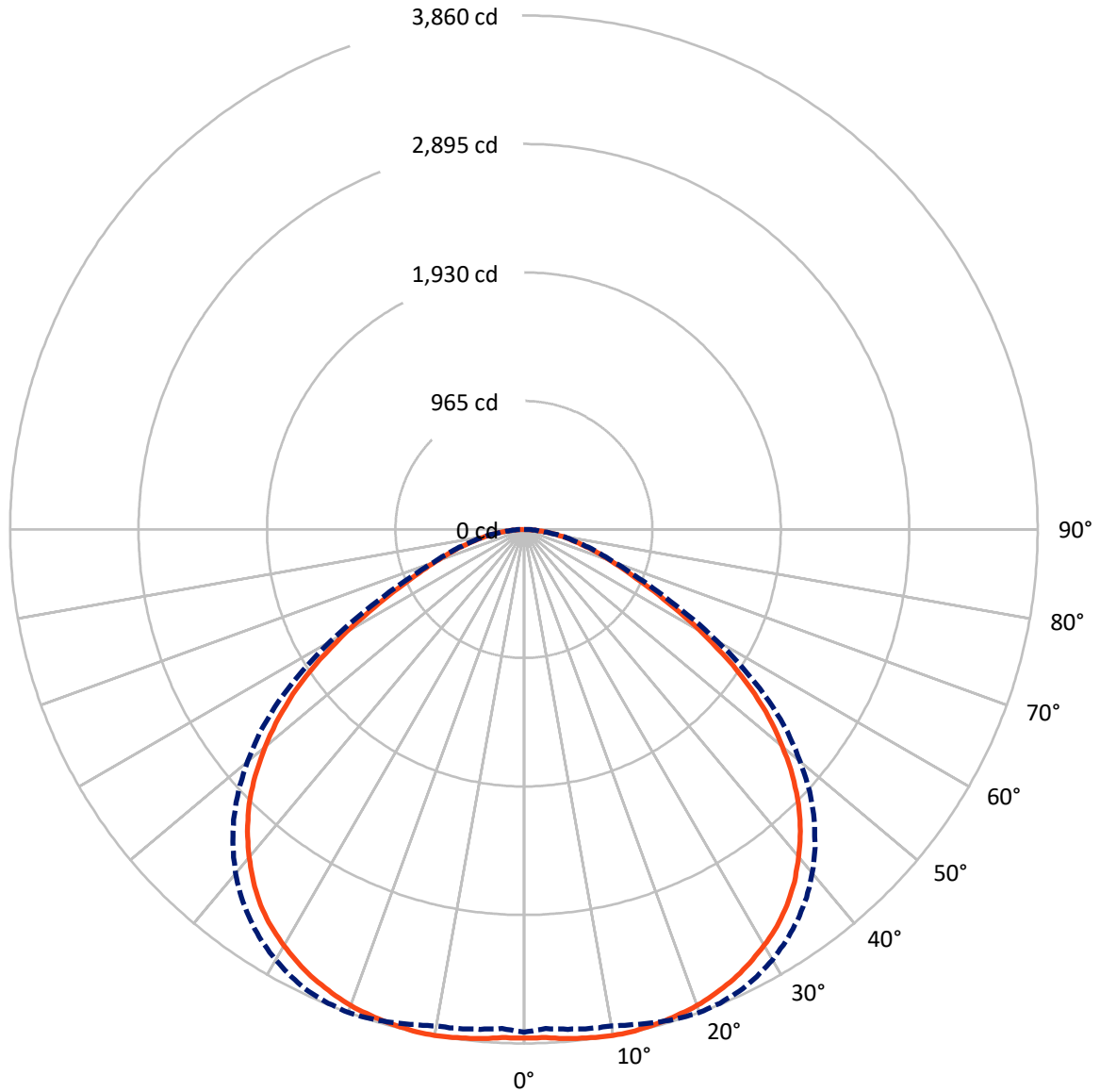
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Iso-Candela Plot



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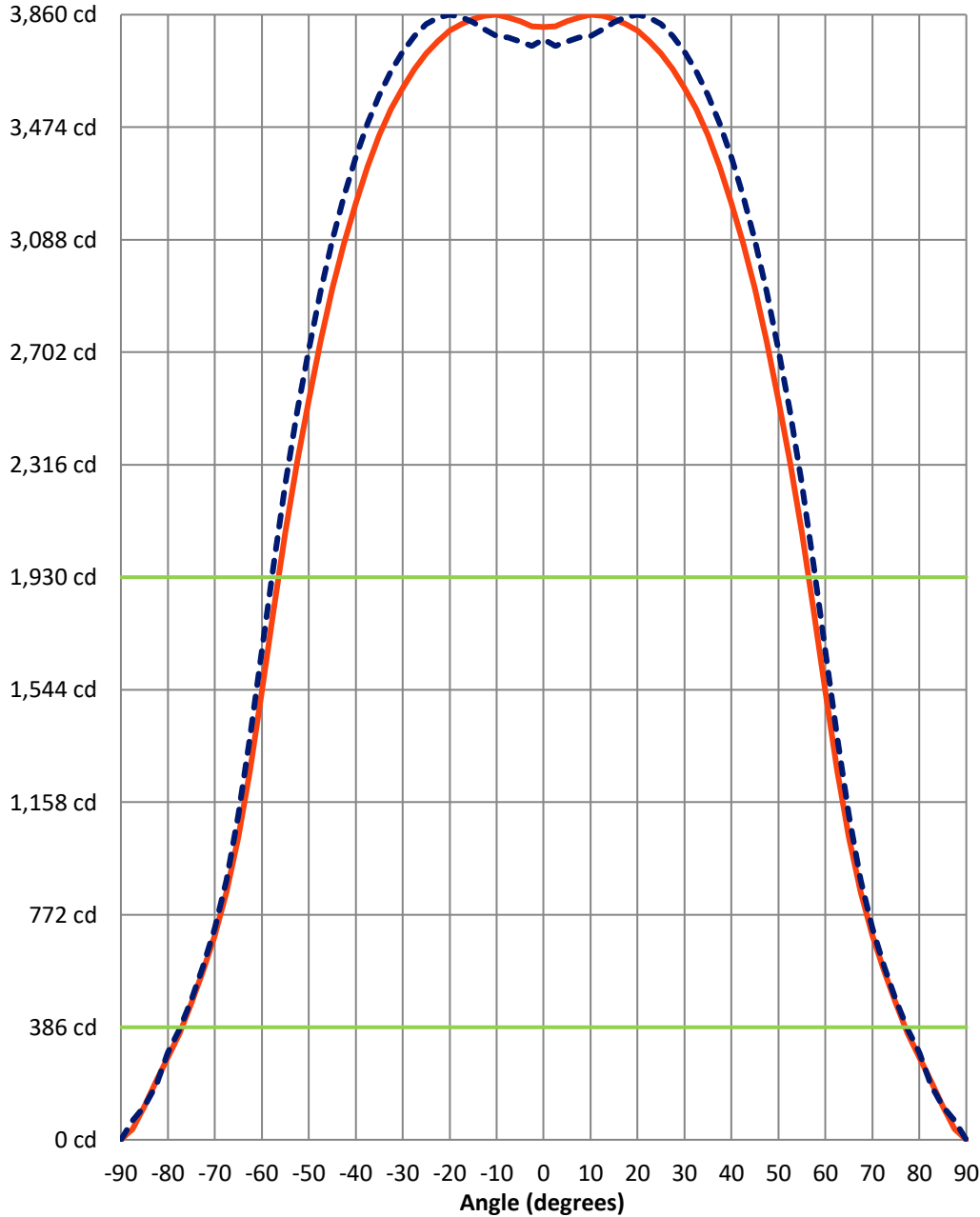
Luminous Intensity Polar Plot



— 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: 7266.4
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 8711.2
Efficiency: 73.6%

Spill:
Lumens: 3130.7
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°	31.1	33.6	34.9	36.1	37.4	38.6	39.9	38.6	37.4	37.4	36.1
85°	83.5	86.0	87.2	95.9	104.7	109.6	115.9	114.6	114.6	113.4	112.1
82.5°	167.0	174.4	180.7	189.4	194.4	201.8	206.8	203.1	200.6	195.6	191.9
80°	296.5	299.0	300.3	301.5	295.3	294.0	291.6	287.8	282.8	276.6	270.4
77.5°	377.5	380.0	382.5	380.0	378.8	377.5	373.8	370.1	365.1	360.1	352.6
75°	499.6	499.6	499.6	495.9	493.4	489.7	483.4	477.2	468.5	458.5	447.3
72.5°	629.2	628.0	626.7	619.2	613.0	605.5	596.8	589.3	579.4	568.2	553.2
70°	765.0	767.5	768.8	758.8	751.3	741.3	730.1	716.4	701.5	685.3	664.1
67.5°	951.9	949.4	946.9	933.2	923.3	909.6	893.4	873.4	851.0	826.1	796.2
65°	1183.7	1187.4	1179.9	1166.2	1147.5	1125.1	1100.2	1071.5	1037.9	1000.5	958.1
62.5°	1464.0	1470.2	1461.5	1444.1	1420.4	1390.5	1355.6	1314.5	1268.4	1216.1	1163.7
60°	1783.0	1781.7	1765.5	1741.9	1710.7	1673.3	1634.7	1589.8	1537.5	1476.5	1412.9
57.5°	2075.8	2073.3	2053.3	2029.7	1998.5	1958.6	1917.5	1870.2	1815.4	1750.6	1677.1
55°	2338.7	2336.2	2316.2	2291.3	2258.9	2219.1	2181.7	2136.8	2083.2	2014.7	1936.2
52.5°	2571.7	2572.9	2555.5	2528.1	2493.2	2454.5	2418.4	2373.6	2322.5	2253.9	2177.9
50°	2786.0	2784.7	2766.0	2741.1	2708.7	2671.3	2635.2	2590.4	2536.8	2470.7	2397.2
47.5°	2985.3	2982.8	2961.6	2934.2	2900.6	2868.2	2834.6	2794.7	2738.6	2672.6	2599.1
45°	3152.3	3147.3	3126.1	3099.9	3067.6	3038.9	3009.0	2979.1	2919.3	2858.2	2788.5
42.5°	3295.6	3294.3	3273.1	3247.0	3214.6	3189.7	3162.2	3124.9	3075.0	3019.0	2950.4
40°	3432.6	3422.7	3401.5	3376.6	3346.6	3325.5	3298.1	3260.7	3212.1	3157.3	3091.2
37.5°	3534.8	3536.0	3513.6	3486.2	3460.0	3440.1	3415.2	3380.3	3337.9	3284.4	3218.3
35°	3632.0	3625.7	3607.1	3583.4	3559.7	3537.3	3511.1	3481.2	3446.3	3396.5	3334.2
32.5°	3695.5	3704.2	3681.8	3656.9	3643.2	3625.7	3598.3	3567.2	3536.0	3486.2	3430.1
30°	3765.3	3757.8	3740.4	3719.2	3709.2	3698.0	3674.3	3644.4	3608.3	3563.4	3511.1
27.5°	3813.9	3810.1	3789.0	3769.0	3764.0	3754.1	3735.4	3709.2	3673.1	3629.5	3580.9
25°	3835.1	3837.6	3817.6	3806.4	3806.4	3800.2	3785.2	3762.8	3726.7	3686.8	3639.4
22.5°	3845.0	3842.5	3828.8	3826.3	3832.6	3827.6	3821.4	3801.4	3769.0	3736.6	3696.8
20°	3851.3	3833.8	3821.4	3831.3	3838.8	3837.6	3832.6	3820.1	3805.2	3777.8	3742.9
17.5°	3837.6	3826.3	3811.4	3826.3	3842.5	3843.8	3838.8	3831.3	3827.6	3810.1	3779.0
15°	3803.9	3795.2	3797.7	3812.6	3831.3	3837.6	3841.3	3850.0	3845.0	3831.3	3803.9
12.5°	3781.5	3770.3	3781.5	3796.4	3806.4	3810.1	3840.0	3856.2	3856.2	3843.8	3826.3
10°	3775.3	3752.8	3767.8	3781.5	3786.5	3808.9	3833.8	3851.3	3860.0	3850.0	3827.6
7.5°	3762.8	3747.8	3754.1	3760.3	3789.0	3805.2	3818.9	3837.6	3850.0	3848.8	3828.8
5°	3756.6	3737.9	3740.4	3766.5	3786.5	3797.7	3802.7	3818.9	3837.6	3841.3	3826.3
2.5°	3740.4	3731.6	3750.3	3752.8	3767.8	3776.5	3781.5	3796.4	3820.1	3828.8	3822.6
0°	3731.6	3719.2	3706.7	3716.7	3741.6	3760.3	3767.8	3790.2	3817.6	3826.3	3812.6



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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°	34.9	33.6	32.4	31.1	32.4	32.4	32.4	31.1	32.4	31.1	31.1
85°	108.4	103.4	99.7	94.7	89.7	86.0	81.0	76.0	74.8	73.5	71.0
82.5°	186.9	180.7	174.4	167.0	159.5	150.8	142.0	132.1	129.6	127.1	123.4
80°	262.9	254.2	245.5	236.7	229.3	220.5	210.6	199.4	191.9	185.6	178.2
77.5°	342.6	330.2	317.7	302.8	294.0	285.3	275.4	264.1	252.9	243.0	231.7
75°	433.6	419.9	407.4	392.5	376.3	360.1	343.9	328.9	312.7	297.8	282.8
72.5°	534.5	514.6	494.6	476.0	456.0	436.1	414.9	395.0	375.0	355.1	333.9
70°	640.4	615.5	590.6	565.7	539.5	513.3	488.4	463.5	438.6	412.4	388.7
67.5°	765.0	736.4	704.0	669.1	630.5	596.8	564.4	534.5	504.6	474.7	444.8
65°	920.8	880.9	837.3	789.9	745.1	700.2	652.9	608.0	573.1	538.3	504.6
62.5°	1112.6	1056.6	995.5	934.5	879.6	821.1	766.3	707.7	652.9	603.0	561.9
60°	1341.9	1265.9	1191.1	1112.6	1036.6	956.9	877.1	814.9	746.3	685.3	625.5
57.5°	1594.8	1506.4	1416.7	1320.7	1217.3	1123.9	1029.2	934.5	853.5	772.5	705.2
55°	1851.5	1758.0	1657.1	1548.7	1435.3	1315.7	1187.4	1081.5	970.6	875.9	788.7
52.5°	2095.7	1998.5	1893.9	1794.2	1658.4	1521.3	1380.5	1241.0	1111.4	990.5	884.6
50°	2313.7	2219.1	2118.1	2002.3	1876.4	1730.6	1573.6	1416.7	1263.4	1121.4	989.3
47.5°	2513.1	2420.9	2320.0	2204.1	2089.5	1927.5	1769.3	1596.1	1425.4	1262.2	1107.7
45°	2700.0	2606.5	2501.9	2391.0	2258.9	2114.4	1951.2	1776.7	1593.6	1410.4	1232.3
42.5°	2869.4	2776.0	2670.1	2555.5	2424.6	2281.4	2123.1	1947.4	1763.0	1563.7	1368.1
40°	3017.7	2926.8	2824.6	2705.0	2582.9	2432.1	2276.4	2109.4	1918.8	1718.2	1502.6
37.5°	3147.3	3062.6	2961.6	2843.3	2713.7	2579.1	2418.4	2251.4	2079.5	1861.5	1640.9
35°	3261.9	3183.4	3080.0	2967.9	2840.8	2698.7	2548.0	2384.8	2199.1	1994.8	1780.5
32.5°	3361.6	3281.9	3187.2	3075.0	2951.7	2818.4	2663.9	2499.4	2323.7	2115.6	1882.6
30°	3446.3	3369.1	3279.4	3173.5	3055.1	2923.0	2772.3	2606.5	2427.1	2220.3	1989.8
27.5°	3519.8	3446.3	3359.1	3260.7	3147.3	3020.2	2868.2	2701.2	2518.1	2318.7	2088.2
25°	3583.4	3512.4	3431.4	3337.9	3225.8	3101.2	2957.9	2783.5	2600.3	2399.7	2171.7
22.5°	3640.7	3572.2	3491.2	3400.2	3298.1	3173.5	3028.9	2855.7	2670.1	2472.0	2247.7
20°	3691.8	3628.2	3548.5	3455.0	3352.9	3227.0	3083.8	2919.3	2732.4	2538.0	2316.2
17.5°	3732.9	3676.8	3597.1	3498.7	3396.5	3274.4	3134.8	2984.1	2786.0	2594.1	2373.6
15°	3761.6	3706.7	3634.5	3534.8	3435.1	3314.3	3174.7	3019.0	2834.6	2638.9	2420.9
12.5°	3781.5	3722.9	3655.6	3563.4	3463.8	3344.2	3208.3	3055.1	2875.7	2678.8	2462.0
10°	3786.5	3732.9	3665.6	3583.4	3486.2	3370.3	3237.0	3085.0	2909.3	2710.0	2495.7
7.5°	3789.0	3737.9	3676.8	3598.3	3502.4	3390.3	3258.2	3108.7	2934.2	2736.1	2520.6
5°	3787.7	3739.1	3684.3	3608.3	3512.4	3401.5	3271.9	3124.9	2951.7	2753.6	2539.3
2.5°	3784.0	3740.4	3689.3	3615.8	3523.6	3413.9	3285.6	3143.6	2970.4	2768.5	2554.2
0°	3793.9	3756.6	3691.8	3613.3	3526.1	3413.9	3284.4	3146.0	2972.9	2767.3	2553.0



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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°	31.1	29.9	29.9	28.7	27.4	26.2	23.7	22.4	19.9	16.2	12.5
85°	67.3	63.5	59.8	57.3	54.8	52.3	48.6	44.9	39.9	32.4	24.9
82.5°	118.4	110.9	103.4	94.7	87.2	79.7	73.5	67.3	59.8	48.6	37.4
80°	169.5	158.2	147.0	134.6	123.4	110.9	99.7	89.7	79.7	64.8	49.8
77.5°	220.5	205.6	189.4	174.4	158.2	142.0	125.8	112.1	97.2	79.7	62.3
75°	267.9	250.4	235.5	214.3	194.4	173.2	152.0	133.3	114.6	93.4	74.8
72.5°	315.2	292.8	271.6	251.7	229.3	203.1	179.4	155.7	132.1	107.2	84.7
70°	362.6	335.2	309.0	285.3	260.4	234.2	205.6	178.2	149.5	119.6	93.4
67.5°	411.2	380.0	350.1	320.2	291.6	261.7	231.7	200.6	167.0	132.1	103.4
65°	464.7	426.1	390.0	356.3	322.7	290.3	256.7	223.0	185.6	145.8	112.1
62.5°	518.3	476.0	433.6	391.2	353.9	317.7	281.6	244.2	203.1	160.7	120.9
60°	575.6	527.0	478.4	431.1	385.0	345.1	305.3	265.4	221.8	174.4	129.6
57.5°	639.2	580.6	525.8	472.2	419.9	372.5	328.9	286.6	238.0	188.1	139.5
55°	711.4	639.2	574.4	514.6	457.3	400.0	352.6	309.0	256.7	201.8	150.8
52.5°	787.4	704.0	625.5	558.2	497.1	432.3	375.0	326.4	275.4	215.6	160.7
50°	875.9	770.0	682.8	600.6	532.0	464.7	398.7	346.4	294.0	231.7	170.7
47.5°	966.9	849.7	740.1	650.4	569.4	495.9	426.1	363.8	311.5	246.7	180.7
45°	1072.8	925.7	804.9	699.0	605.5	528.3	453.5	382.5	326.4	261.7	190.6
42.5°	1174.9	1015.5	872.2	752.6	646.7	559.4	478.4	402.4	341.4	276.6	199.4
40°	1295.8	1105.2	937.0	803.6	687.8	589.3	503.4	423.6	355.1	290.3	208.1
37.5°	1411.7	1196.1	1015.5	859.7	727.6	619.2	528.3	443.6	367.6	304.0	219.3
35°	1526.3	1297.0	1090.2	912.0	768.8	652.9	553.2	462.3	380.0	315.2	229.3
32.5°	1635.9	1391.7	1166.2	970.6	813.6	684.0	575.6	479.7	392.5	325.2	239.2
30°	1738.1	1481.4	1241.0	1030.4	854.7	712.7	596.8	497.1	407.4	333.9	249.2
27.5°	1831.6	1568.7	1315.7	1086.5	893.4	738.9	619.2	513.3	419.9	342.6	257.9
25°	1916.3	1647.2	1384.3	1137.6	928.2	767.5	640.4	529.5	431.1	350.1	265.4
22.5°	1996.0	1719.4	1446.6	1188.6	970.6	796.2	660.4	544.5	442.3	357.6	272.9
20°	2065.8	1785.5	1506.4	1239.7	1008.0	822.3	677.8	558.2	452.3	362.6	280.3
17.5°	2121.9	1844.0	1559.9	1284.6	1040.4	844.8	692.8	570.6	461.0	368.8	285.3
15°	2171.7	1893.9	1604.8	1323.2	1069.0	863.5	706.5	580.6	468.5	372.5	291.6
12.5°	2214.1	1936.2	1643.4	1356.9	1094.0	879.6	717.7	588.1	474.7	376.3	295.3
10°	2249.0	1969.9	1675.8	1383.0	1113.9	892.1	726.4	595.6	479.7	380.0	299.0
7.5°	2275.1	1994.8	1699.5	1405.4	1130.1	900.8	733.9	600.6	484.7	382.5	305.3
5°	2295.1	2016.0	1718.2	1420.4	1142.5	913.3	742.6	606.8	489.7	385.0	305.3
2.5°	2310.0	2033.4	1733.1	1432.9	1152.5	910.8	742.6	605.5	489.7	385.0	304.0
0°	2307.5	2034.7	1731.9	1432.9	1152.5	908.3	742.6	604.3	489.7	385.0	304.0



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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°	18.7	12.5	6.2	0.0
82.5°	27.4	17.4	8.7	0.0
80°	36.1	23.7	11.2	0.0
77.5°	46.1	29.9	15.0	0.0
75°	54.8	34.9	17.4	0.0
72.5°	63.5	41.1	19.9	0.0
70°	71.0	46.1	22.4	0.0
67.5°	78.5	52.3	26.2	0.0
65°	84.7	57.3	28.7	0.0
62.5°	89.7	63.5	31.1	0.0
60°	95.9	68.5	33.6	0.0
57.5°	100.9	72.3	36.1	0.0
55°	105.9	74.8	38.6	0.0
52.5°	110.9	78.5	41.1	0.0
50°	115.9	82.2	43.6	0.0
47.5°	120.9	84.7	44.9	0.0
45°	128.3	88.5	47.3	0.0
42.5°	134.6	91.0	49.8	0.0
40°	140.8	93.4	51.1	0.0
37.5°	147.0	95.9	53.6	0.0
35°	153.3	98.4	54.8	0.0
32.5°	158.2	100.9	56.1	0.0
30°	163.2	103.4	57.3	0.0
27.5°	168.2	104.7	58.6	0.0
25°	171.9	107.2	59.8	0.0
22.5°	175.7	108.4	61.1	0.0
20°	178.2	109.6	62.3	0.0
17.5°	181.9	110.9	63.5	0.0
15°	183.2	112.1	66.0	0.0
12.5°	185.6	113.4	66.0	0.0
10°	186.9	114.6	66.0	0.0
7.5°	189.4	114.6	66.0	0.0
5°	188.1	114.6	66.0	0.0
2.5°	188.1	114.6	66.0	0.0
0°	186.9	114.6	66.0	0.0

(END OF REPORT)