

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: P628296

Luminaire Tested: **IFLD-S-SA2B-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628296
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

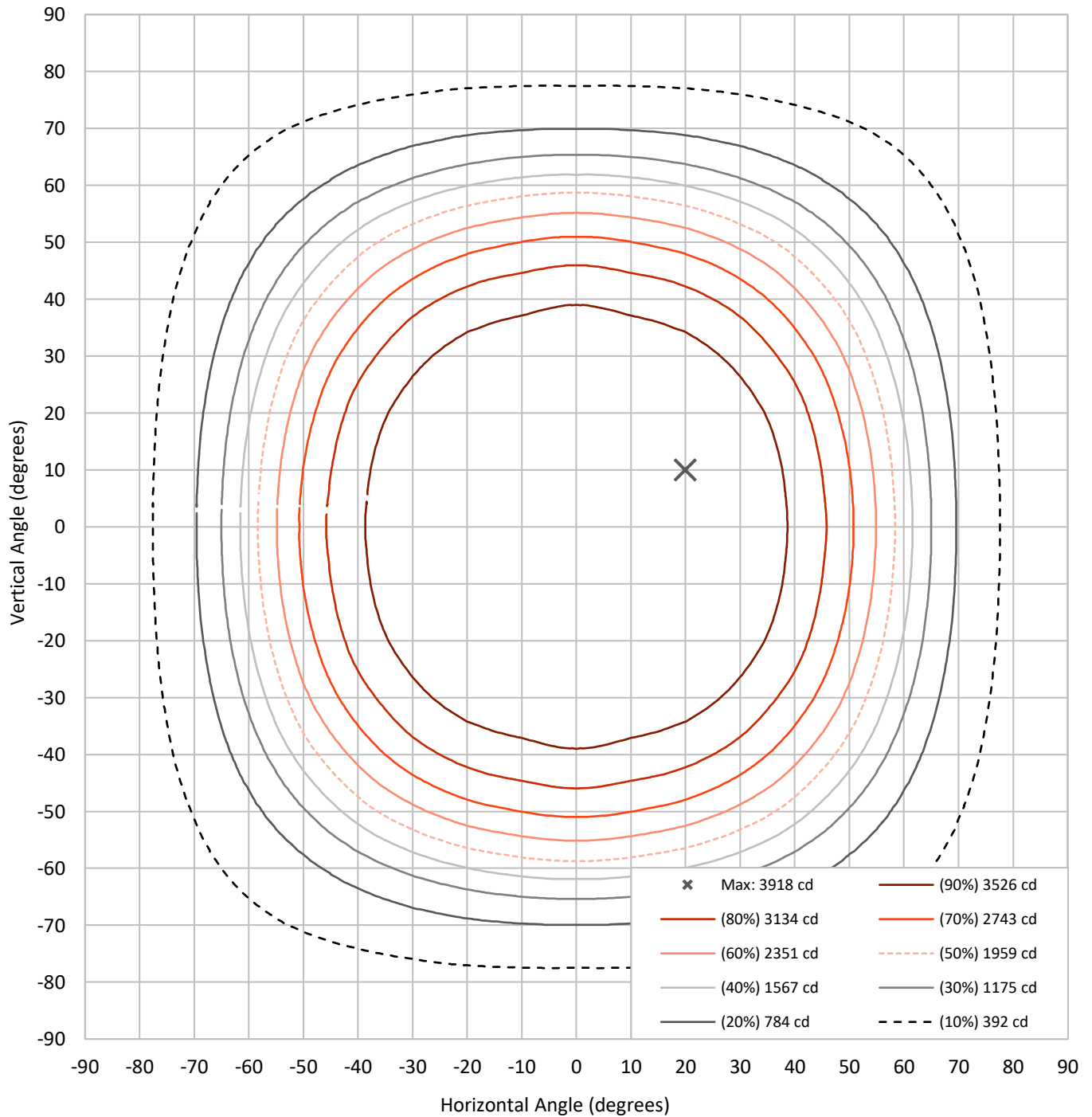
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12019.9 lumens	Max Intensity:	3918 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	145.9 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:	7375.7 lumens	Field Lumens:	8842.2 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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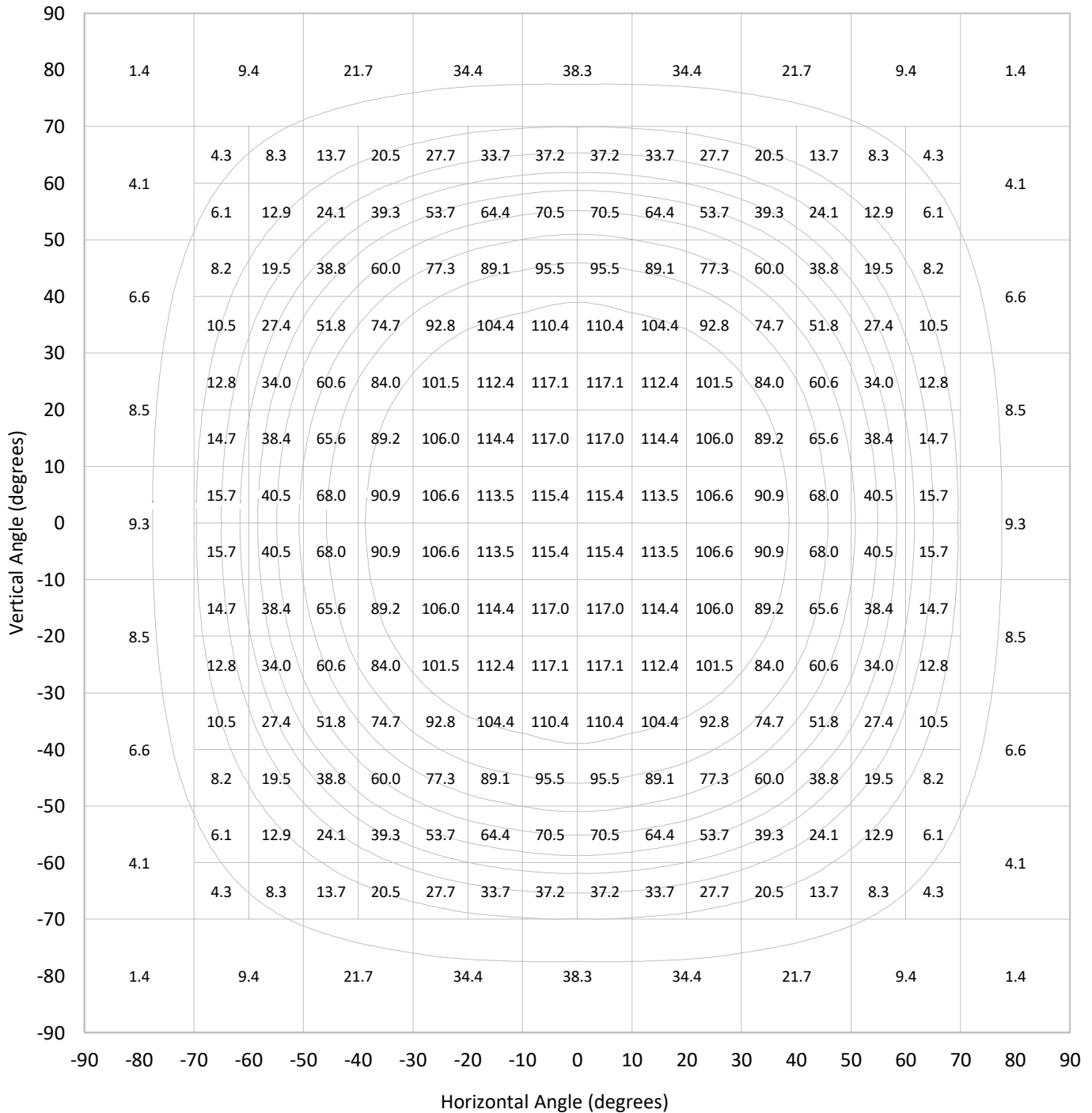
Iso-Candela Plot





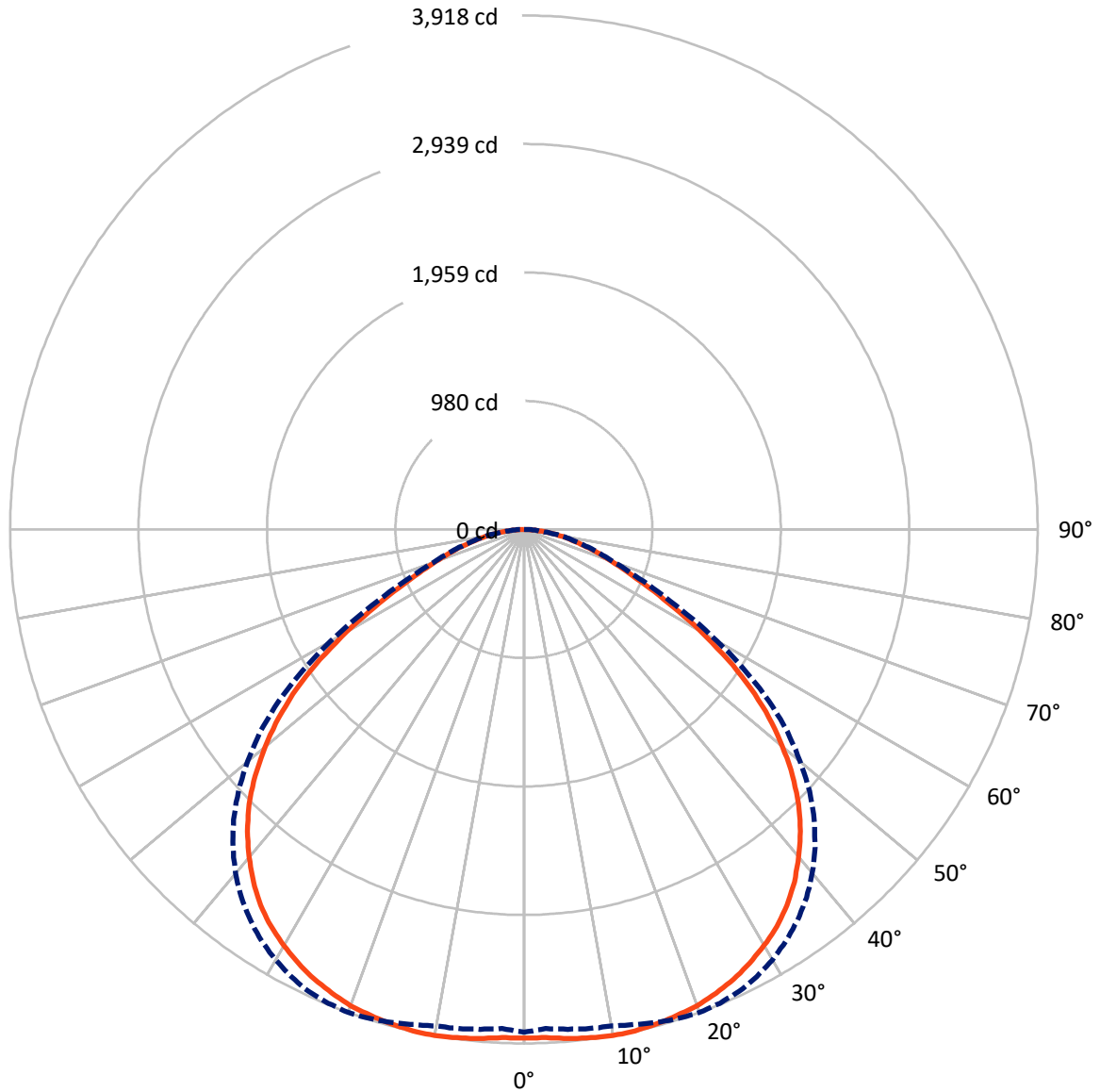
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Lumen Table



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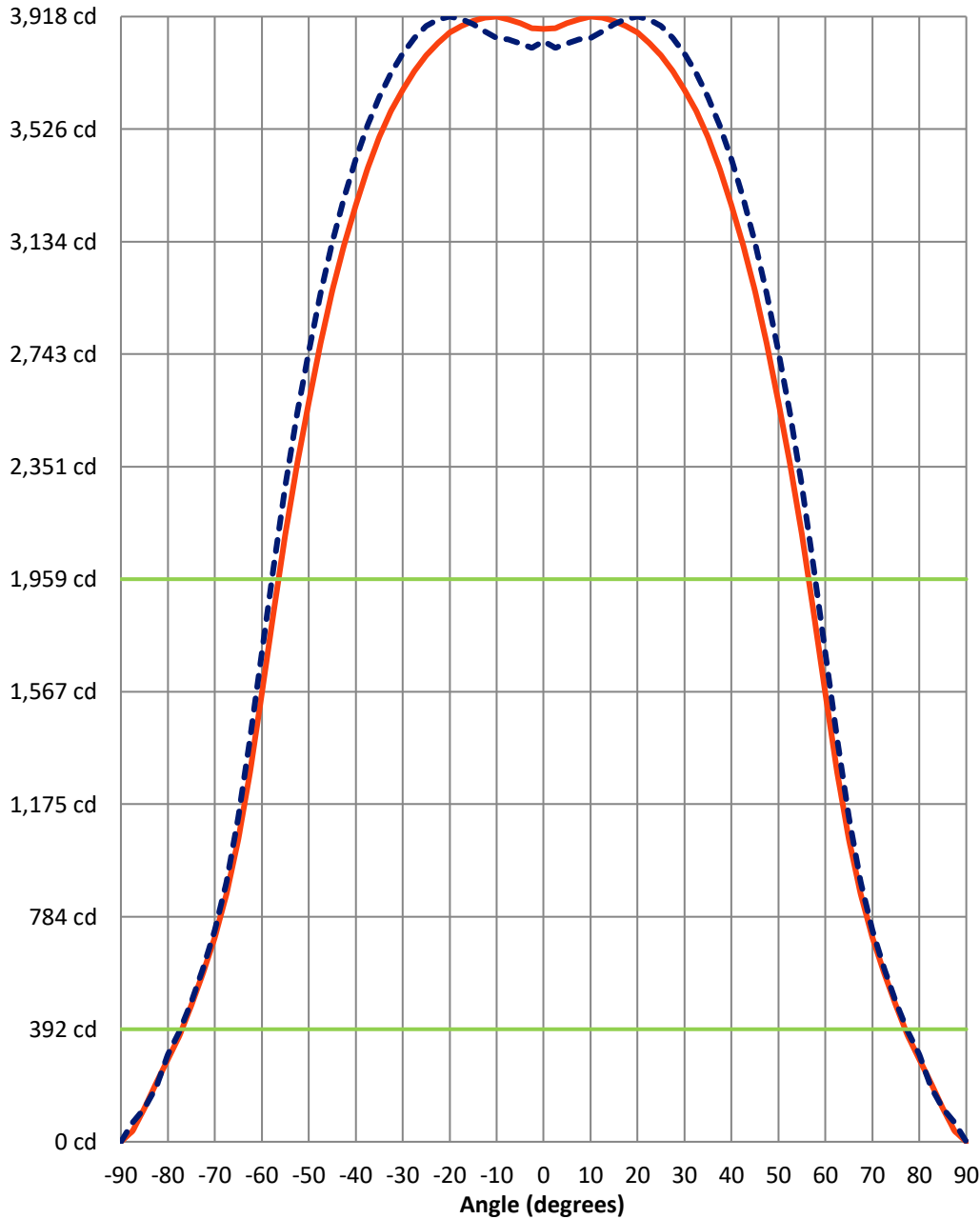
Luminous Intensity Polar Plot



— 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: 7375.7
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8842.2
 Efficiency: 73.6%

Spill:
 Lumens: 3177.7
 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°	31.6	34.1	35.4	36.7	37.9	39.2	40.5	39.2	37.9	37.9	36.7
85°	84.7	87.3	88.5	97.4	106.2	111.3	117.6	116.4	116.4	115.1	113.8
82.5°	169.5	177.1	183.4	192.2	197.3	204.9	209.9	206.1	203.6	198.6	194.8
80°	301.0	303.5	304.8	306.1	299.7	298.5	295.9	292.1	287.1	280.8	274.4
77.5°	383.2	385.7	388.3	385.7	384.5	383.2	379.4	375.6	370.6	365.5	357.9
75°	507.1	507.1	507.1	503.3	500.8	497.0	490.7	484.4	475.5	465.4	454.0
72.5°	638.7	637.4	636.1	628.6	622.2	614.6	605.8	598.2	588.1	576.7	561.5
70°	776.5	779.0	780.3	770.2	762.6	752.5	741.1	727.2	712.0	695.6	674.1
67.5°	966.2	963.7	961.2	947.3	937.1	923.2	906.8	886.5	863.8	838.5	808.1
65°	1201.5	1205.3	1197.7	1183.8	1164.8	1142.0	1116.7	1087.6	1053.5	1015.5	972.5
62.5°	1486.0	1492.3	1483.5	1465.8	1441.7	1411.4	1376.0	1334.2	1287.5	1234.3	1181.2
60°	1809.8	1808.5	1792.1	1768.0	1736.4	1698.5	1659.3	1613.7	1560.6	1498.7	1434.2
57.5°	2107.0	2104.4	2084.2	2060.2	2028.6	1988.1	1946.4	1898.3	1842.7	1776.9	1702.3
55°	2373.8	2371.3	2351.1	2325.8	2292.9	2252.4	2214.5	2168.9	2114.6	2045.0	1965.3
52.5°	2610.3	2611.6	2593.9	2566.1	2530.6	2491.4	2454.8	2409.2	2357.4	2287.8	2210.7
50°	2827.8	2826.6	2807.6	2782.3	2749.4	2711.5	2674.8	2629.3	2574.9	2507.9	2433.3
47.5°	3030.2	3027.7	3006.2	2978.3	2944.2	2911.3	2877.2	2836.7	2779.8	2712.8	2638.1
45°	3199.7	3194.6	3173.1	3146.6	3113.7	3084.6	3054.2	3023.9	2963.2	2901.2	2830.4
42.5°	3345.1	3343.8	3322.3	3295.8	3262.9	3237.6	3209.8	3171.8	3121.3	3064.3	2994.8
40°	3484.2	3474.1	3452.6	3427.3	3397.0	3375.5	3347.6	3309.7	3260.4	3204.7	3137.7
37.5°	3587.9	3589.2	3566.4	3538.6	3512.0	3491.8	3466.5	3431.1	3388.1	3333.7	3266.7
35°	3686.6	3680.3	3661.3	3637.3	3613.2	3590.5	3563.9	3533.5	3498.1	3447.5	3384.3
32.5°	3751.1	3759.9	3737.2	3711.9	3698.0	3680.3	3652.4	3620.8	3589.2	3538.6	3481.7
30°	3821.9	3814.3	3796.6	3775.1	3765.0	3753.6	3729.6	3699.2	3662.5	3617.0	3563.9
27.5°	3871.2	3867.4	3845.9	3825.7	3820.6	3810.5	3791.5	3765.0	3728.3	3684.0	3634.7
25°	3892.7	3895.2	3875.0	3863.6	3863.6	3857.3	3842.1	3819.4	3782.7	3742.2	3694.2
22.5°	3902.8	3900.3	3886.4	3883.9	3890.2	3885.1	3878.8	3858.6	3825.7	3792.8	3752.3
20°	3909.2	3891.5	3878.8	3888.9	3896.5	3895.2	3890.2	3877.5	3862.4	3834.5	3799.1
17.5°	3895.2	3883.9	3868.7	3883.9	3900.3	3901.6	3896.5	3888.9	3885.1	3867.4	3835.8
15°	3861.1	3852.2	3854.8	3870.0	3888.9	3895.2	3899.0	3907.9	3902.8	3888.9	3861.1
12.5°	3838.3	3827.0	3838.3	3853.5	3863.6	3867.4	3897.8	3914.2	3914.2	3901.6	3883.9
10°	3832.0	3809.3	3824.4	3838.3	3843.4	3866.2	3891.5	3909.2	3918.0	3907.9	3885.1
7.5°	3819.4	3804.2	3810.5	3816.8	3845.9	3862.4	3876.3	3895.2	3907.9	3906.6	3886.4
5°	3813.0	3794.1	3796.6	3823.2	3843.4	3854.8	3859.8	3876.3	3895.2	3899.0	3883.9
2.5°	3796.6	3787.8	3806.7	3809.3	3824.4	3833.3	3838.3	3853.5	3877.5	3886.4	3880.1
0°	3787.8	3775.1	3762.5	3772.6	3797.9	3816.8	3824.4	3847.2	3875.0	3883.9	3870.0



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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°	35.4	34.1	32.9	31.6	32.9	32.9	32.9	31.6	32.9	31.6	31.6
85°	110.0	105.0	101.2	96.1	91.1	87.3	82.2	77.1	75.9	74.6	72.1
82.5°	189.7	183.4	177.1	169.5	161.9	153.0	144.2	134.1	131.5	129.0	125.2
80°	266.8	258.0	249.1	240.3	232.7	223.9	213.7	202.4	194.8	188.4	180.9
77.5°	347.8	335.1	322.5	307.3	298.5	289.6	279.5	268.1	256.7	246.6	235.2
75°	440.1	426.2	413.6	398.4	381.9	365.5	349.1	333.9	317.4	302.3	287.1
72.5°	542.6	522.3	502.1	483.1	462.9	442.6	421.1	400.9	380.7	360.4	338.9
70°	650.1	624.8	599.5	574.2	547.6	521.1	495.8	470.5	445.2	418.6	394.6
67.5°	776.5	747.4	714.6	679.1	639.9	605.8	572.9	542.6	512.2	481.8	451.5
65°	934.6	894.1	849.9	801.8	756.3	710.8	662.7	617.2	581.8	546.3	512.2
62.5°	1129.4	1072.5	1010.5	948.5	892.9	833.4	777.8	718.3	662.7	612.1	570.4
60°	1362.1	1284.9	1209.0	1129.4	1052.2	971.3	900.5	827.1	757.6	695.6	634.9
57.5°	1618.8	1529.0	1438.0	1340.6	1235.6	1140.8	1044.6	948.5	866.3	784.1	715.8
55°	1879.3	1784.5	1682.0	1572.0	1456.9	1335.5	1205.3	1097.8	985.2	889.1	800.5
52.5°	2127.2	2028.6	1922.3	1821.2	1683.3	1544.2	1401.3	1259.6	1128.1	1005.4	897.9
50°	2348.5	2252.4	2150.0	2032.4	1904.6	1756.7	1597.3	1438.0	1282.4	1138.2	1004.2
47.5°	2550.9	2457.3	2354.9	2237.2	2120.9	1956.5	1795.9	1620.1	1446.8	1281.1	1124.3
45°	2740.6	2645.7	2539.5	2426.9	2292.9	2146.2	1980.5	1803.4	1617.5	1431.6	1250.8
42.5°	2912.6	2817.7	2710.2	2593.9	2461.1	2315.6	2155.0	1976.7	1789.5	1587.2	1388.6
40°	3063.1	2970.8	2867.1	2745.6	2621.7	2468.7	2310.6	2141.1	1947.6	1744.0	1525.2
37.5°	3194.6	3108.6	3006.2	2886.0	2754.5	2617.9	2454.8	2285.3	2110.8	1889.4	1665.6
35°	3311.0	3231.3	3126.3	3012.5	2883.5	2739.3	2586.3	2420.6	2232.2	2024.8	1807.2
32.5°	3412.1	3331.2	3235.1	3121.3	2996.1	2860.7	2703.9	2537.0	2358.6	2147.4	1910.9
30°	3498.1	3419.7	3328.7	3221.2	3101.0	2967.0	2813.9	2645.7	2463.6	2253.7	2019.7
27.5°	3572.8	3498.1	3409.6	3309.7	3194.6	3065.6	2911.3	2741.9	2555.9	2353.6	2119.6
25°	3637.3	3565.2	3483.0	3388.1	3274.3	3147.8	3002.4	2825.3	2639.4	2435.8	2204.4
22.5°	3695.4	3625.9	3543.7	3451.3	3347.6	3221.2	3074.5	2898.7	2710.2	2509.1	2281.5
20°	3747.3	3682.8	3601.8	3507.0	3403.3	3275.6	3130.1	2963.2	2773.5	2576.2	2351.1
17.5°	3789.0	3732.1	3651.2	3551.3	3447.5	3323.6	3182.0	3028.9	2827.8	2633.1	2409.2
15°	3818.1	3762.5	3689.1	3587.9	3486.8	3364.1	3222.4	3064.3	2877.2	2678.6	2457.3
12.5°	3838.3	3778.9	3710.6	3617.0	3515.8	3394.4	3256.6	3101.0	2918.9	2719.1	2499.0
10°	3843.4	3789.0	3720.7	3637.3	3538.6	3421.0	3285.7	3131.4	2953.1	2750.7	2533.2
7.5°	3845.9	3794.1	3732.1	3652.4	3555.0	3441.2	3307.2	3155.4	2978.3	2777.3	2558.5
5°	3844.7	3795.3	3739.7	3662.5	3565.2	3452.6	3321.1	3171.8	2996.1	2795.0	2577.4
2.5°	3840.9	3796.6	3744.8	3670.1	3576.5	3465.3	3335.0	3190.8	3015.0	2810.1	2592.6
0°	3851.0	3813.0	3747.3	3667.6	3579.1	3465.3	3333.7	3193.3	3017.6	2808.9	2591.4



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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°	31.6	30.4	30.4	29.1	27.8	26.6	24.0	22.8	20.2	16.4	12.6
85°	68.3	64.5	60.7	58.2	55.6	53.1	49.3	45.5	40.5	32.9	25.3
82.5°	120.1	112.6	105.0	96.1	88.5	80.9	74.6	68.3	60.7	49.3	37.9
80°	172.0	160.6	149.2	136.6	125.2	112.6	101.2	91.1	80.9	65.8	50.6
77.5°	223.9	208.7	192.2	177.1	160.6	144.2	127.7	113.8	98.6	80.9	63.2
75°	271.9	254.2	239.0	217.5	197.3	175.8	154.3	135.3	116.4	94.9	75.9
72.5°	320.0	297.2	275.7	255.5	232.7	206.1	182.1	158.1	134.1	108.8	86.0
70°	368.0	340.2	313.6	289.6	264.3	237.8	208.7	180.9	151.8	121.4	94.9
67.5°	417.3	385.7	355.4	325.0	295.9	265.6	235.2	203.6	169.5	134.1	105.0
65°	471.7	432.5	395.8	361.7	327.6	294.7	260.5	226.4	188.4	148.0	113.8
62.5°	526.1	483.1	440.1	397.1	359.2	322.5	285.8	247.9	206.1	163.1	122.7
60°	584.3	535.0	485.6	437.6	390.8	350.3	309.8	269.4	225.1	177.1	131.5
57.5°	648.8	589.3	533.7	479.3	426.2	378.1	333.9	290.9	241.6	191.0	141.6
55°	722.1	648.8	583.0	522.3	464.1	406.0	357.9	313.6	260.5	204.9	153.0
52.5°	799.3	714.6	634.9	566.6	504.6	438.8	380.7	331.3	279.5	218.8	163.1
50°	889.1	781.6	693.1	609.6	540.0	471.7	404.7	351.6	298.5	235.2	173.3
47.5°	981.4	862.5	751.2	660.2	578.0	503.3	432.5	369.3	316.2	250.4	183.4
45°	1088.9	939.7	817.0	709.5	614.6	536.2	460.3	388.3	331.3	265.6	193.5
42.5°	1192.6	1030.7	885.3	763.9	656.4	567.8	485.6	408.5	346.5	280.8	202.4
40°	1315.3	1121.8	951.0	815.7	698.1	598.2	510.9	430.0	360.4	294.7	211.2
37.5°	1432.9	1214.1	1030.7	872.6	738.6	628.6	536.2	450.2	373.1	308.6	222.6
35°	1549.2	1316.5	1106.6	925.8	780.3	662.7	561.5	469.2	385.7	320.0	232.7
32.5°	1660.5	1412.7	1183.8	985.2	825.8	694.3	584.3	486.9	398.4	330.1	242.8
30°	1764.2	1503.7	1259.6	1045.9	867.6	723.4	605.8	504.6	413.6	338.9	252.9
27.5°	1859.1	1592.2	1335.5	1102.8	906.8	750.0	628.6	521.1	426.2	347.8	261.8
25°	1945.1	1671.9	1405.1	1154.7	942.2	779.0	650.1	537.5	437.6	355.4	269.4
22.5°	2026.0	1745.3	1468.3	1206.5	985.2	808.1	670.3	552.7	449.0	363.0	277.0
20°	2096.9	1812.3	1529.0	1258.4	1023.1	834.7	688.0	566.6	459.1	368.0	284.6
17.5°	2153.8	1871.7	1583.4	1303.9	1056.0	857.5	703.2	579.2	467.9	374.3	289.6
15°	2204.4	1922.3	1628.9	1343.1	1085.1	876.4	717.1	589.3	475.5	378.1	295.9
12.5°	2247.4	1965.3	1668.1	1377.2	1110.4	892.9	728.5	596.9	481.8	381.9	299.7
10°	2282.8	1999.5	1701.0	1403.8	1130.6	905.5	737.3	604.5	486.9	385.7	303.5
7.5°	2309.3	2024.8	1725.0	1426.6	1147.1	914.4	744.9	609.6	492.0	388.3	309.8
5°	2329.6	2046.3	1744.0	1441.7	1159.7	927.0	753.8	615.9	497.0	390.8	309.8
2.5°	2344.7	2064.0	1759.2	1454.4	1169.8	924.5	753.8	614.6	497.0	390.8	308.6
0°	2342.2	2065.2	1757.9	1454.4	1169.8	922.0	753.8	613.4	497.0	390.8	308.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.9	6.3	2.5	0.0
85°	19.0	12.6	6.3	0.0
82.5°	27.8	17.7	8.9	0.0
80°	36.7	24.0	11.4	0.0
77.5°	46.8	30.4	15.2	0.0
75°	55.6	35.4	17.7	0.0
72.5°	64.5	41.7	20.2	0.0
70°	72.1	46.8	22.8	0.0
67.5°	79.7	53.1	26.6	0.0
65°	86.0	58.2	29.1	0.0
62.5°	91.1	64.5	31.6	0.0
60°	97.4	69.6	34.1	0.0
57.5°	102.4	73.4	36.7	0.0
55°	107.5	75.9	39.2	0.0
52.5°	112.6	79.7	41.7	0.0
50°	117.6	83.5	44.3	0.0
47.5°	122.7	86.0	45.5	0.0
45°	130.3	89.8	48.1	0.0
42.5°	136.6	92.3	50.6	0.0
40°	142.9	94.9	51.9	0.0
37.5°	149.2	97.4	54.4	0.0
35°	155.6	99.9	55.6	0.0
32.5°	160.6	102.4	56.9	0.0
30°	165.7	105.0	58.2	0.0
27.5°	170.7	106.2	59.4	0.0
25°	174.5	108.8	60.7	0.0
22.5°	178.3	110.0	62.0	0.0
20°	180.9	111.3	63.2	0.0
17.5°	184.6	112.6	64.5	0.0
15°	185.9	113.8	67.0	0.0
12.5°	188.4	115.1	67.0	0.0
10°	189.7	116.4	67.0	0.0
7.5°	192.2	116.4	67.0	0.0
5°	191.0	116.4	67.0	0.0
2.5°	191.0	116.4	67.0	0.0
0°	189.7	116.4	67.0	0.0

(END OF REPORT)