

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: P628272

Luminaire Tested: **IFLD-S-SA3B-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628272
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

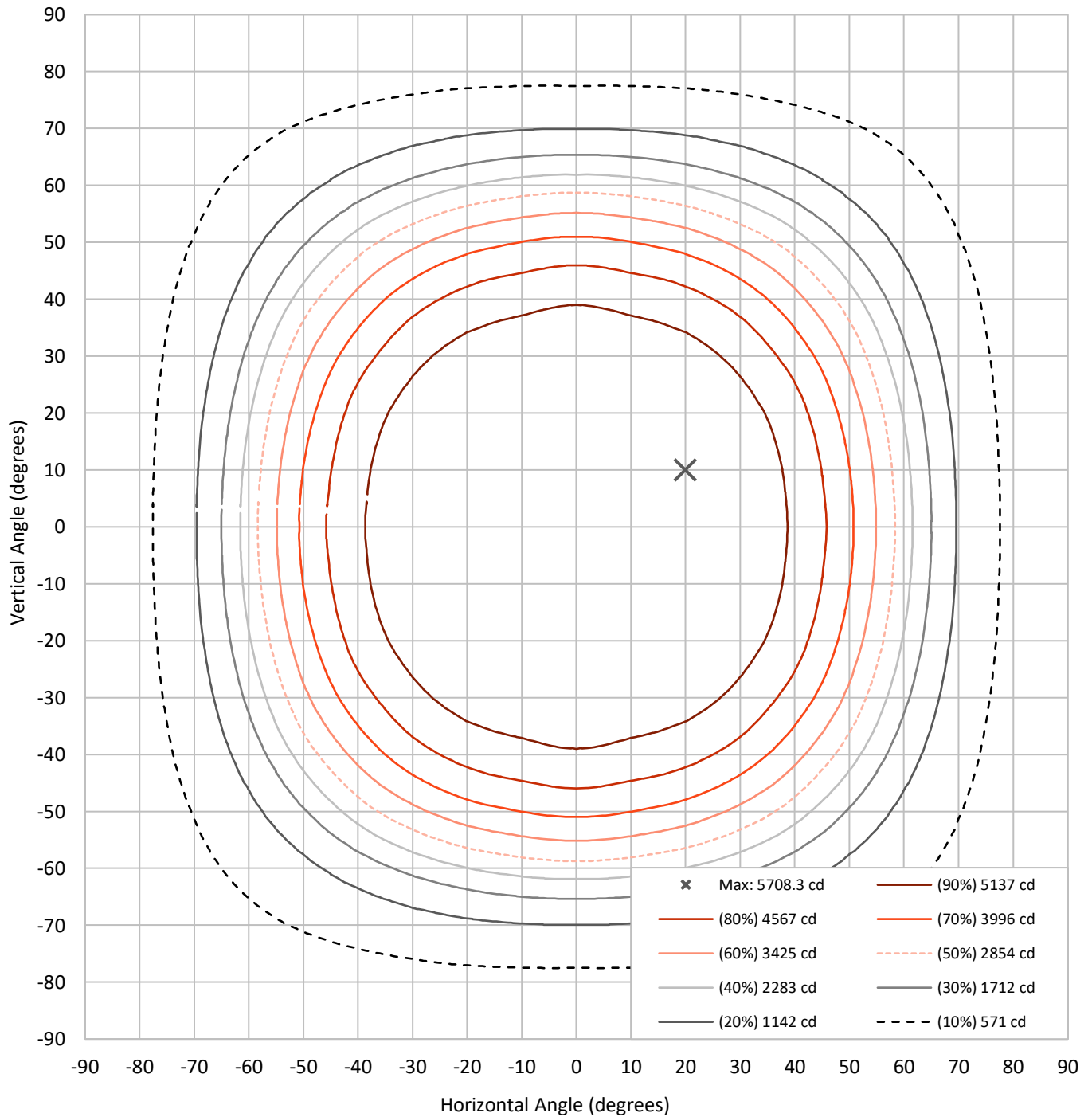
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17512.2 lumens	Max Intensity:	5708.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	143.1 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:	10745.9 lumens	Field Lumens:	12882.5 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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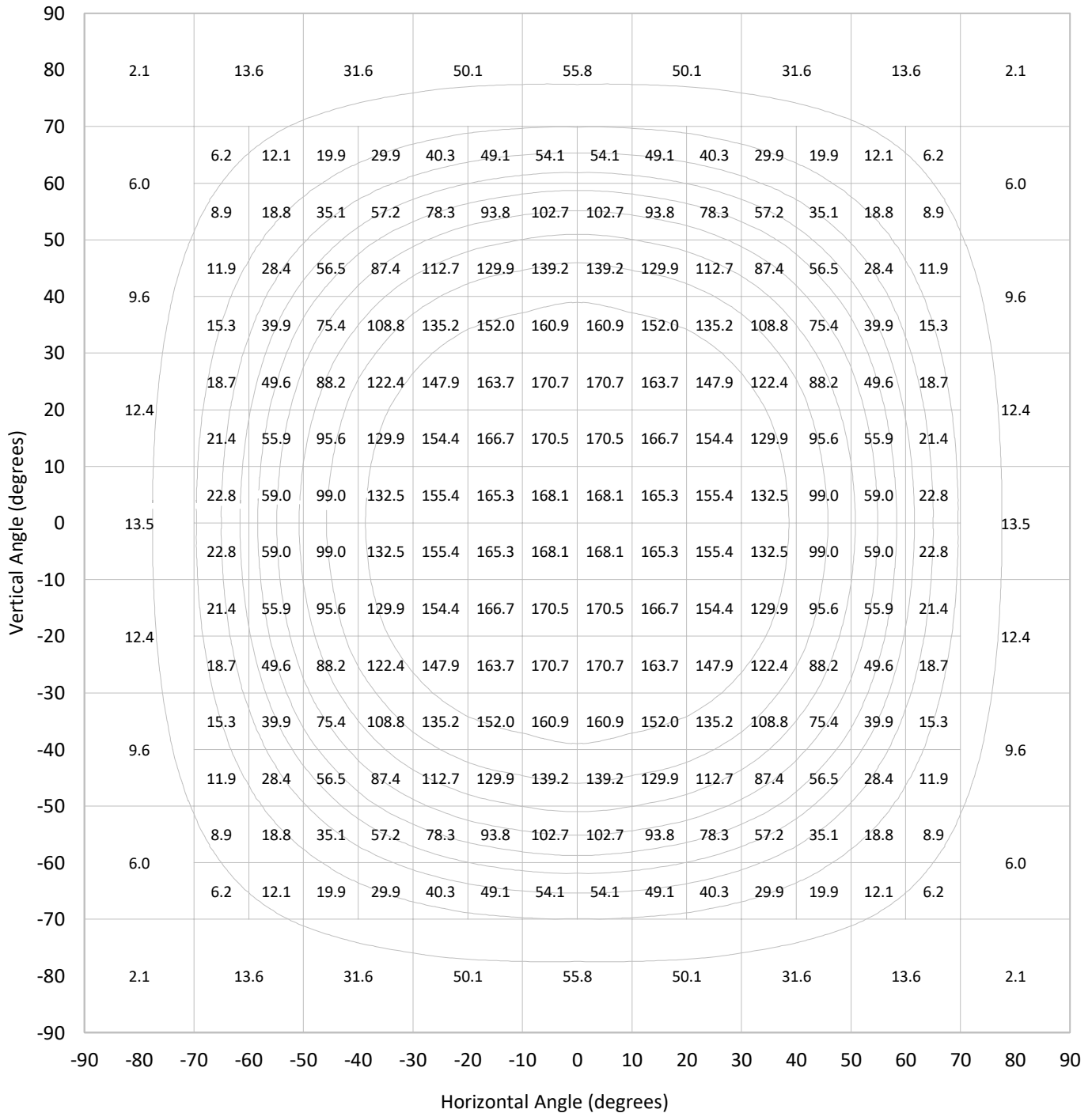
Iso-Candela Plot





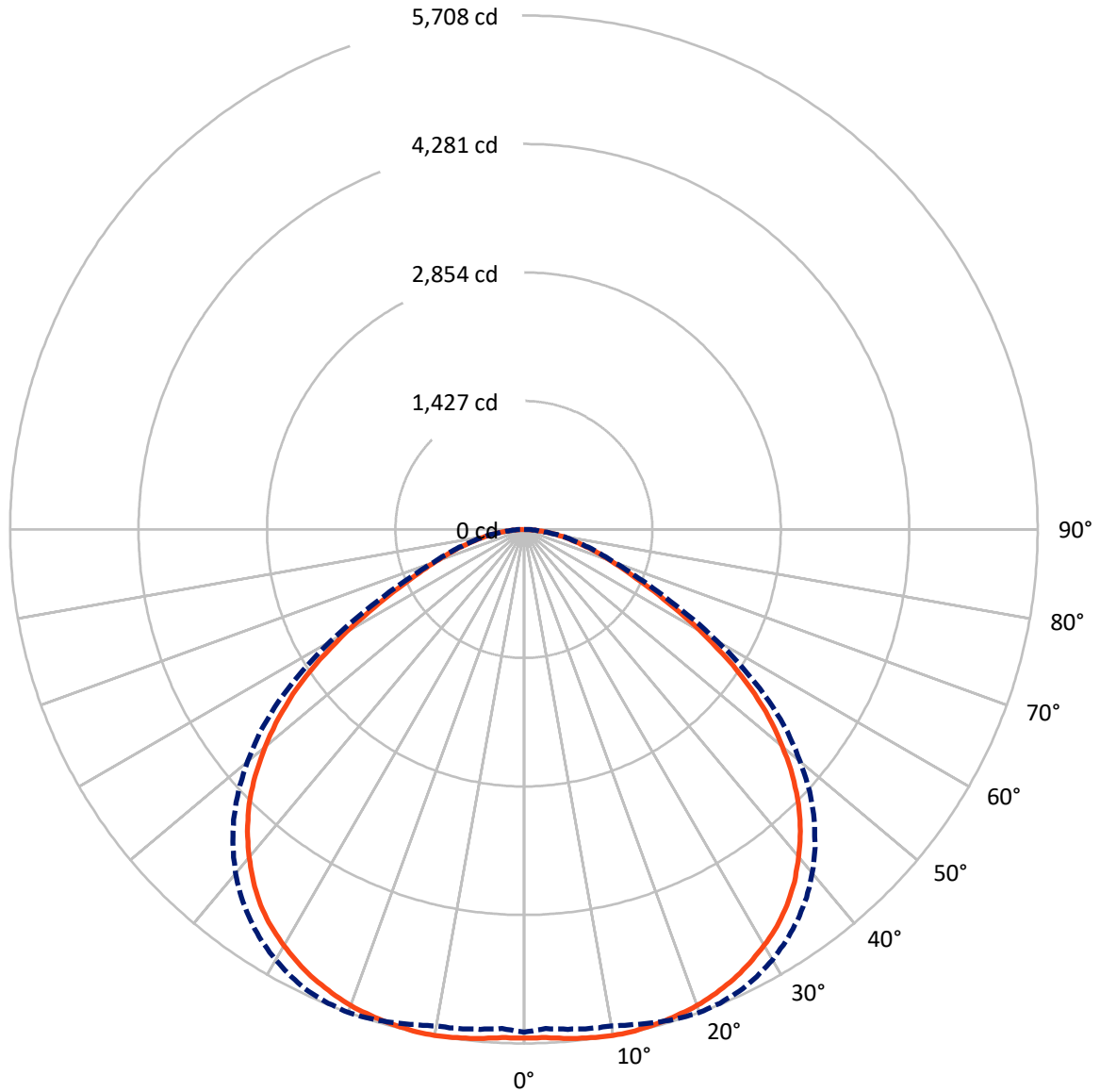
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Lumen Table



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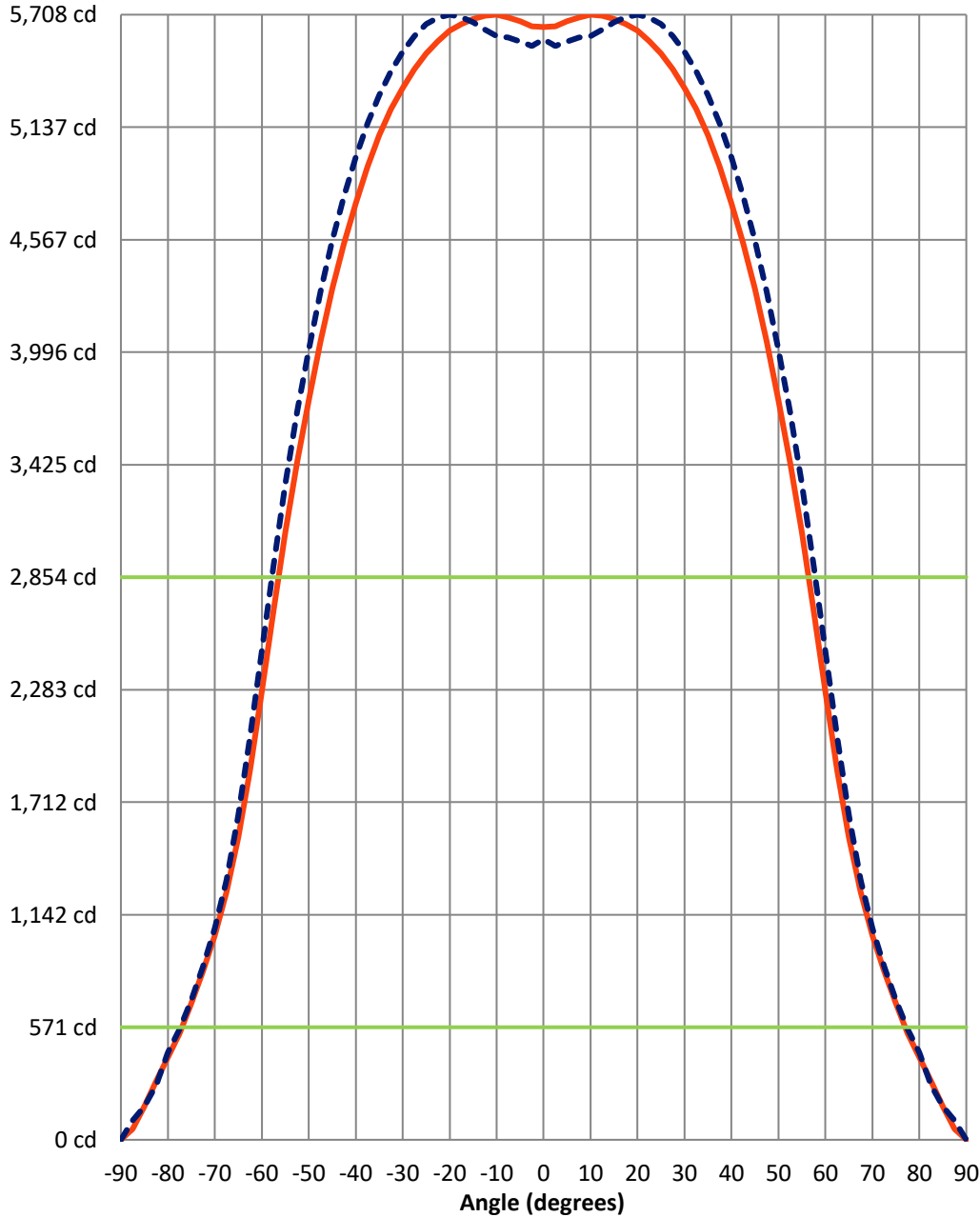
Luminous Intensity Polar Plot



— 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: 10745.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 12882.5
 Efficiency: 73.6%

Spill:
 Lumens: 4629.8
 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°	46.1	49.7	51.6	53.4	55.3	57.1	59.0	57.1	55.3	55.3	53.4
85°	123.5	127.1	129.0	141.9	154.8	162.1	171.4	169.5	169.5	167.7	165.8
82.5°	246.9	258.0	267.2	280.1	287.4	298.5	305.9	300.3	296.7	289.3	283.8
80°	438.5	442.2	444.1	445.9	436.7	434.8	431.2	425.6	418.3	409.1	399.8
77.5°	558.3	562.0	565.7	562.0	560.1	558.3	552.8	547.2	539.9	532.5	521.4
75°	738.9	738.9	738.9	733.3	729.7	724.1	714.9	705.7	692.8	678.1	661.5
72.5°	930.5	928.7	926.8	915.8	906.5	895.5	882.6	871.5	856.8	840.2	818.1
70°	1131.3	1135.0	1136.9	1122.1	1111.1	1096.3	1079.7	1059.5	1037.4	1013.4	982.1
67.5°	1407.7	1404.0	1400.4	1380.1	1365.3	1345.1	1321.1	1291.6	1258.5	1221.6	1177.4
65°	1750.4	1756.0	1744.9	1724.6	1697.0	1663.8	1627.0	1584.6	1534.9	1479.6	1416.9
62.5°	2165.0	2174.2	2161.3	2135.5	2100.5	2056.3	2004.7	1943.9	1875.7	1798.3	1721.0
60°	2636.7	2634.9	2610.9	2575.9	2529.8	2474.6	2417.5	2351.1	2273.7	2183.4	2089.5
57.5°	3069.7	3066.0	3036.6	3001.5	2955.5	2896.5	2835.7	2765.7	2684.6	2588.8	2480.1
55°	3458.5	3454.8	3425.3	3388.5	3340.6	3281.6	3226.3	3160.0	3080.8	2979.4	2863.4
52.5°	3803.1	3804.9	3779.1	3738.6	3687.0	3629.9	3576.4	3510.1	3434.6	3333.2	3220.8
50°	4120.0	4118.1	4090.5	4053.7	4005.7	3950.5	3897.0	3830.7	3751.5	3653.8	3545.1
47.5°	4414.8	4411.1	4379.8	4339.3	4289.5	4241.6	4191.8	4132.9	4050.0	3952.3	3843.6
45°	4661.7	4654.3	4623.0	4584.3	4536.4	4494.0	4449.8	4405.6	4317.1	4226.9	4123.7
42.5°	4873.6	4871.8	4840.4	4801.7	4753.8	4717.0	4676.4	4621.2	4547.5	4464.5	4363.2
40°	5076.3	5061.5	5030.2	4993.4	4949.1	4917.8	4877.3	4822.0	4750.1	4669.1	4571.4
37.5°	5227.4	5229.2	5196.0	5155.5	5116.8	5087.3	5050.5	4998.9	4936.2	4857.0	4759.4
35°	5371.1	5361.9	5334.2	5299.2	5264.2	5231.1	5192.4	5148.1	5096.5	5022.8	4930.7
32.5°	5465.1	5478.0	5444.8	5407.9	5387.7	5361.9	5321.3	5275.3	5229.2	5155.5	5072.6
30°	5568.2	5557.2	5531.4	5500.1	5485.3	5468.7	5433.7	5389.5	5336.1	5269.8	5192.4
27.5°	5640.1	5634.6	5603.3	5573.8	5566.4	5551.7	5524.0	5485.3	5431.9	5367.4	5295.5
25°	5671.4	5675.1	5645.6	5629.1	5629.1	5619.8	5597.7	5564.6	5511.1	5452.2	5382.1
22.5°	5686.2	5682.5	5662.2	5658.5	5667.7	5660.4	5651.2	5621.7	5573.8	5525.9	5466.9
20°	5695.4	5669.6	5651.2	5665.9	5677.0	5675.1	5667.7	5649.3	5627.2	5586.7	5535.1
17.5°	5675.1	5658.5	5636.4	5658.5	5682.5	5684.3	5677.0	5665.9	5660.4	5634.6	5588.5
15°	5625.4	5612.5	5616.2	5638.3	5665.9	5675.1	5680.6	5693.5	5686.2	5665.9	5625.4
12.5°	5592.2	5575.6	5592.2	5614.3	5629.1	5634.6	5678.8	5702.8	5702.8	5684.3	5658.5
10°	5583.0	5549.8	5571.9	5592.2	5599.6	5632.7	5669.6	5695.4	5708.3	5693.5	5660.4
7.5°	5564.6	5542.5	5551.7	5560.9	5603.3	5627.2	5647.5	5675.1	5693.5	5691.7	5662.2
5°	5555.3	5527.7	5531.4	5570.1	5599.6	5616.2	5623.5	5647.5	5675.1	5680.6	5658.5
2.5°	5531.4	5518.5	5546.1	5549.8	5571.9	5584.8	5592.2	5614.3	5649.3	5662.2	5653.0
0°	5518.5	5500.1	5481.6	5496.4	5533.2	5560.9	5571.9	5605.1	5645.6	5658.5	5638.3



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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°	51.6	49.7	47.9	46.1	47.9	47.9	47.9	46.1	47.9	46.1	46.1
85°	160.3	152.9	147.4	140.0	132.7	127.1	119.8	112.4	110.6	108.7	105.0
82.5°	276.4	267.2	258.0	246.9	235.8	223.0	210.1	195.3	191.6	187.9	182.4
80°	388.8	375.9	363.0	350.1	339.0	326.1	311.4	294.8	283.8	274.5	263.5
77.5°	506.7	488.3	469.9	447.7	434.8	421.9	407.2	390.6	374.0	359.3	342.7
75°	641.2	620.9	602.5	580.4	556.5	532.5	508.5	486.4	462.5	440.4	418.3
72.5°	790.5	761.0	731.5	703.9	674.4	644.9	613.6	584.1	554.6	525.1	493.8
70°	947.1	910.2	873.4	836.5	797.8	759.1	722.3	685.4	648.6	609.9	574.9
67.5°	1131.3	1089.0	1041.1	989.5	932.3	882.6	834.7	790.5	746.2	702.0	657.8
65°	1361.7	1302.7	1238.2	1168.2	1101.9	1035.5	965.5	899.2	847.6	796.0	746.2
62.5°	1645.4	1562.5	1472.2	1381.9	1300.9	1214.3	1133.2	1046.6	965.5	891.8	831.0
60°	1984.4	1872.1	1761.5	1645.4	1533.0	1415.1	1311.9	1205.0	1103.7	1013.4	925.0
57.5°	2358.5	2227.7	2095.0	1953.1	1800.2	1662.0	1522.0	1381.9	1262.2	1142.4	1042.9
55°	2738.1	2599.9	2450.6	2290.3	2122.6	1945.8	1756.0	1599.4	1435.4	1295.3	1166.3
52.5°	3099.2	2955.5	2800.7	2653.3	2452.5	2249.8	2041.6	1835.2	1643.6	1464.8	1308.2
50°	3421.7	3281.6	3132.4	2961.0	2774.9	2559.3	2327.2	2095.0	1868.4	1658.3	1463.0
47.5°	3716.5	3580.1	3430.9	3259.5	3090.0	2850.5	2616.5	2360.3	2107.9	1866.5	1638.0
45°	3992.9	3854.7	3699.9	3535.9	3340.6	3126.8	2885.5	2627.5	2356.6	2085.8	1822.3
42.5°	4243.4	4105.2	3948.6	3779.1	3585.6	3373.7	3139.7	2879.9	2607.2	2312.4	2023.1
40°	4462.7	4328.2	4177.1	4000.2	3819.6	3596.7	3366.4	3119.5	2837.6	2540.9	2222.1
37.5°	4654.3	4529.0	4379.8	4204.7	4013.1	3814.1	3576.4	3329.5	3075.3	2752.8	2426.7
35°	4823.8	4707.8	4554.8	4389.0	4201.1	3991.0	3768.1	3526.7	3252.1	2950.0	2633.0
32.5°	4971.3	4853.3	4713.3	4547.5	4365.0	4167.9	3939.4	3696.2	3436.4	3128.7	2784.1
30°	5096.5	4982.3	4849.6	4693.0	4518.0	4322.7	4099.7	3854.7	3589.3	3283.5	2942.6
27.5°	5205.3	5096.5	4967.6	4822.0	4654.3	4466.4	4241.6	3994.7	3723.8	3429.0	3088.1
25°	5299.2	5194.2	5074.4	4936.2	4770.4	4586.2	4374.3	4116.3	3845.4	3548.8	3211.6
22.5°	5384.0	5282.6	5162.9	5028.4	4877.3	4693.0	4479.3	4223.2	3948.6	3655.7	3324.0
20°	5459.5	5365.6	5247.6	5109.4	4958.4	4772.3	4560.4	4317.1	4040.8	3753.3	3425.3
17.5°	5520.3	5437.4	5319.5	5173.9	5022.8	4842.3	4635.9	4413.0	4120.0	3836.2	3510.1
15°	5562.7	5481.6	5374.8	5227.4	5080.0	4901.2	4694.9	4464.5	4191.8	3902.6	3580.1
12.5°	5592.2	5505.6	5406.1	5269.8	5122.3	4945.5	4744.6	4518.0	4252.7	3961.5	3640.9
10°	5599.6	5520.3	5420.8	5299.2	5155.5	4984.2	4787.0	4562.2	4302.4	4007.6	3690.7
7.5°	5603.3	5527.7	5437.4	5321.3	5179.5	5013.6	4818.3	4597.2	4339.3	4046.3	3727.5
5°	5601.4	5529.6	5448.5	5336.1	5194.2	5030.2	4838.6	4621.2	4365.0	4072.1	3755.2
2.5°	5595.9	5531.4	5455.9	5347.1	5210.8	5048.6	4858.9	4648.8	4392.7	4094.2	3777.3
0°	5610.6	5555.3	5459.5	5343.5	5214.5	5048.6	4857.0	4652.5	4396.4	4092.3	3775.4



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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°	46.1	44.2	44.2	42.4	40.5	38.7	35.0	33.2	29.5	24.0	18.4
85°	99.5	94.0	88.4	84.8	81.1	77.4	71.9	66.3	59.0	47.9	36.9
82.5°	175.0	164.0	152.9	140.0	129.0	117.9	108.7	99.5	88.4	71.9	55.3
80°	250.6	234.0	217.4	199.0	182.4	164.0	147.4	132.7	117.9	95.8	73.7
77.5°	326.1	304.0	280.1	258.0	234.0	210.1	186.1	165.8	143.7	117.9	92.1
75°	396.2	370.4	348.2	316.9	287.4	256.1	224.8	197.2	169.5	138.2	110.6
72.5°	466.2	433.0	401.7	372.2	339.0	300.3	265.3	230.3	195.3	158.5	125.3
70°	536.2	495.7	457.0	421.9	385.1	346.4	304.0	263.5	221.1	176.9	138.2
67.5°	608.0	562.0	517.8	473.5	431.2	386.9	342.7	296.7	246.9	195.3	152.9
65°	687.3	630.2	576.7	527.0	477.2	429.3	379.6	329.8	274.5	215.6	165.8
62.5°	766.5	703.9	641.2	578.6	523.3	469.9	416.4	361.1	300.3	237.7	178.7
60°	851.3	779.4	707.5	637.5	569.4	510.4	451.4	392.5	328.0	258.0	191.6
57.5°	945.2	858.6	777.6	698.3	620.9	550.9	486.4	423.8	351.9	278.2	206.4
55°	1052.1	945.2	849.4	761.0	676.2	591.5	521.4	457.0	379.6	298.5	223.0
52.5°	1164.5	1041.1	925.0	825.5	735.2	639.4	554.6	482.8	407.2	318.8	237.7
50°	1295.3	1138.7	1009.7	888.1	786.8	687.3	589.6	512.2	434.8	342.7	252.4
47.5°	1429.8	1256.6	1094.5	961.8	842.1	733.3	630.2	538.0	460.6	364.8	267.2
45°	1586.5	1369.0	1190.3	1033.7	895.5	781.2	670.7	565.7	482.8	386.9	281.9
42.5°	1737.5	1501.7	1289.8	1112.9	956.3	827.3	707.5	595.2	504.9	409.1	294.8
40°	1916.3	1634.4	1385.6	1188.5	1017.1	871.5	744.4	626.5	525.1	429.3	307.7
37.5°	2087.6	1768.9	1501.7	1271.4	1076.1	915.8	781.2	656.0	543.6	449.6	324.3
35°	2257.1	1918.1	1612.2	1348.8	1136.9	965.5	818.1	683.6	562.0	466.2	339.0
32.5°	2419.3	2058.2	1724.6	1435.4	1203.2	1011.6	851.3	709.4	580.4	480.9	353.8
30°	2570.4	2190.8	1835.2	1523.8	1264.0	1054.0	882.6	735.2	602.5	493.8	368.5
27.5°	2708.6	2319.8	1945.8	1606.7	1321.1	1092.6	915.8	759.1	620.9	506.7	381.4
25°	2833.9	2435.9	2047.1	1682.3	1372.7	1135.0	947.1	783.1	637.5	517.8	392.5
22.5°	2951.8	2542.7	2139.2	1757.8	1435.4	1177.4	976.6	805.2	654.1	528.8	403.5
20°	3055.0	2640.4	2227.7	1833.4	1490.6	1216.1	1002.4	825.5	668.9	536.2	414.6
17.5°	3137.9	2727.0	2306.9	1899.7	1538.5	1249.3	1024.5	843.9	681.8	545.4	421.9
15°	3211.6	2800.7	2373.2	1956.8	1580.9	1276.9	1044.7	858.6	692.8	550.9	431.2
12.5°	3274.2	2863.4	2430.4	2006.6	1617.8	1300.9	1061.3	869.7	702.0	556.5	436.7
10°	3325.8	2913.1	2478.3	2045.3	1647.3	1319.3	1074.2	880.7	709.4	562.0	442.2
7.5°	3364.5	2950.0	2513.3	2078.4	1671.2	1332.2	1085.3	888.1	716.8	565.7	451.4
5°	3394.0	2981.3	2540.9	2100.5	1689.6	1350.6	1098.2	897.3	724.1	569.4	451.4
2.5°	3416.1	3007.1	2563.0	2119.0	1704.4	1346.9	1098.2	895.5	724.1	569.4	449.6
0°	3412.4	3008.9	2561.2	2119.0	1704.4	1343.2	1098.2	893.6	724.1	569.4	449.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.9	9.2	3.7	0.0
85°	27.6	18.4	9.2	0.0
82.5°	40.5	25.8	12.9	0.0
80°	53.4	35.0	16.6	0.0
77.5°	68.2	44.2	22.1	0.0
75°	81.1	51.6	25.8	0.0
72.5°	94.0	60.8	29.5	0.0
70°	105.0	68.2	33.2	0.0
67.5°	116.1	77.4	38.7	0.0
65°	125.3	84.8	42.4	0.0
62.5°	132.7	94.0	46.1	0.0
60°	141.9	101.3	49.7	0.0
57.5°	149.2	106.9	53.4	0.0
55°	156.6	110.6	57.1	0.0
52.5°	164.0	116.1	60.8	0.0
50°	171.4	121.6	64.5	0.0
47.5°	178.7	125.3	66.3	0.0
45°	189.8	130.8	70.0	0.0
42.5°	199.0	134.5	73.7	0.0
40°	208.2	138.2	75.5	0.0
37.5°	217.4	141.9	79.2	0.0
35°	226.6	145.6	81.1	0.0
32.5°	234.0	149.2	82.9	0.0
30°	241.4	152.9	84.8	0.0
27.5°	248.7	154.8	86.6	0.0
25°	254.3	158.5	88.4	0.0
22.5°	259.8	160.3	90.3	0.0
20°	263.5	162.1	92.1	0.0
17.5°	269.0	164.0	94.0	0.0
15°	270.9	165.8	97.7	0.0
12.5°	274.5	167.7	97.7	0.0
10°	276.4	169.5	97.7	0.0
7.5°	280.1	169.5	97.7	0.0
5°	278.2	169.5	97.7	0.0
2.5°	278.2	169.5	97.7	0.0
0°	276.4	169.5	97.7	0.0

(END OF REPORT)