

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: P628359

Luminaire Tested: **IFLD-S-SA3B-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628359
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

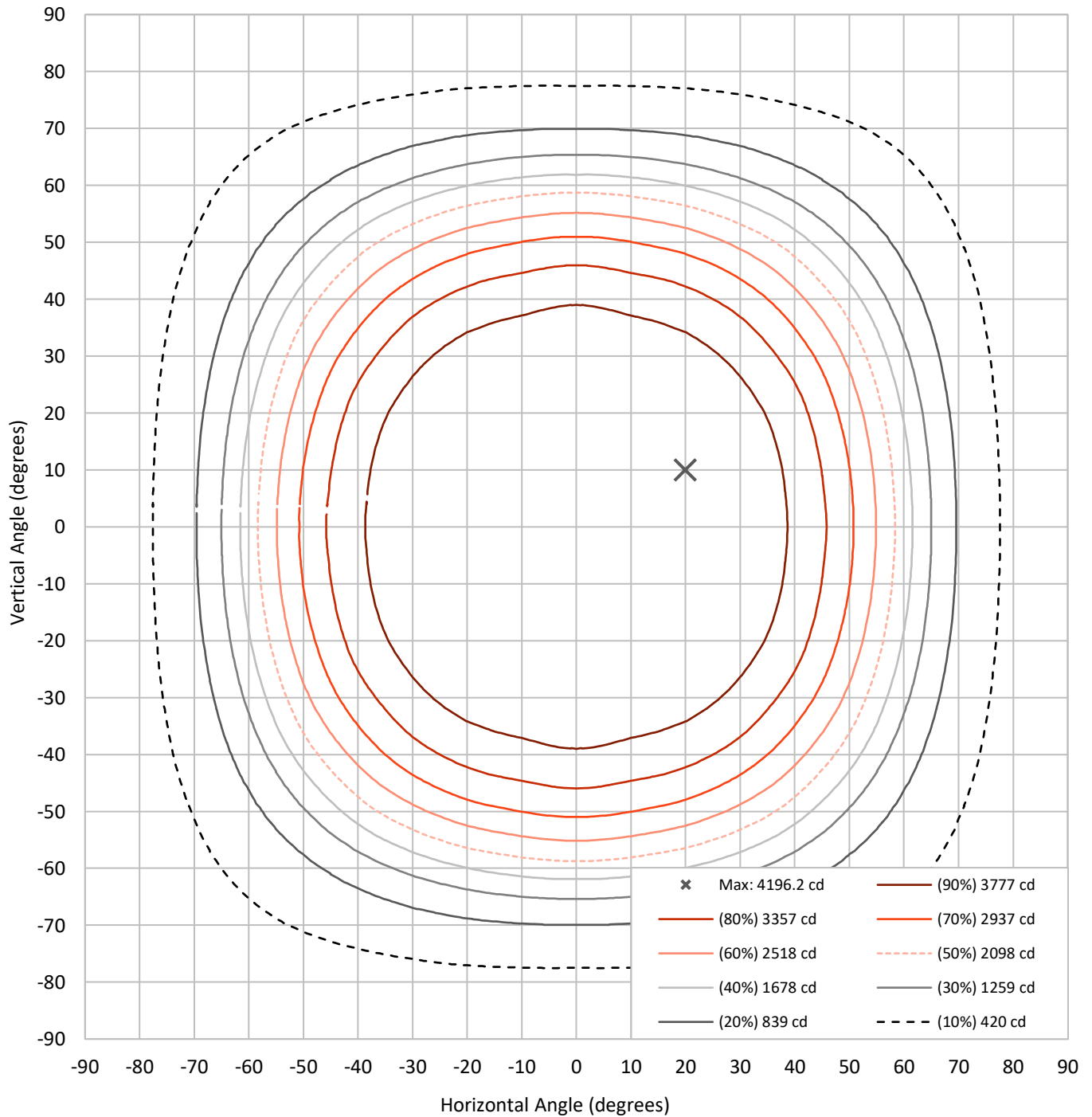
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12873.2 lumens	Max Intensity:	4196.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	105.2 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:	7899.3 lumens	Field Lumens:	9469.9 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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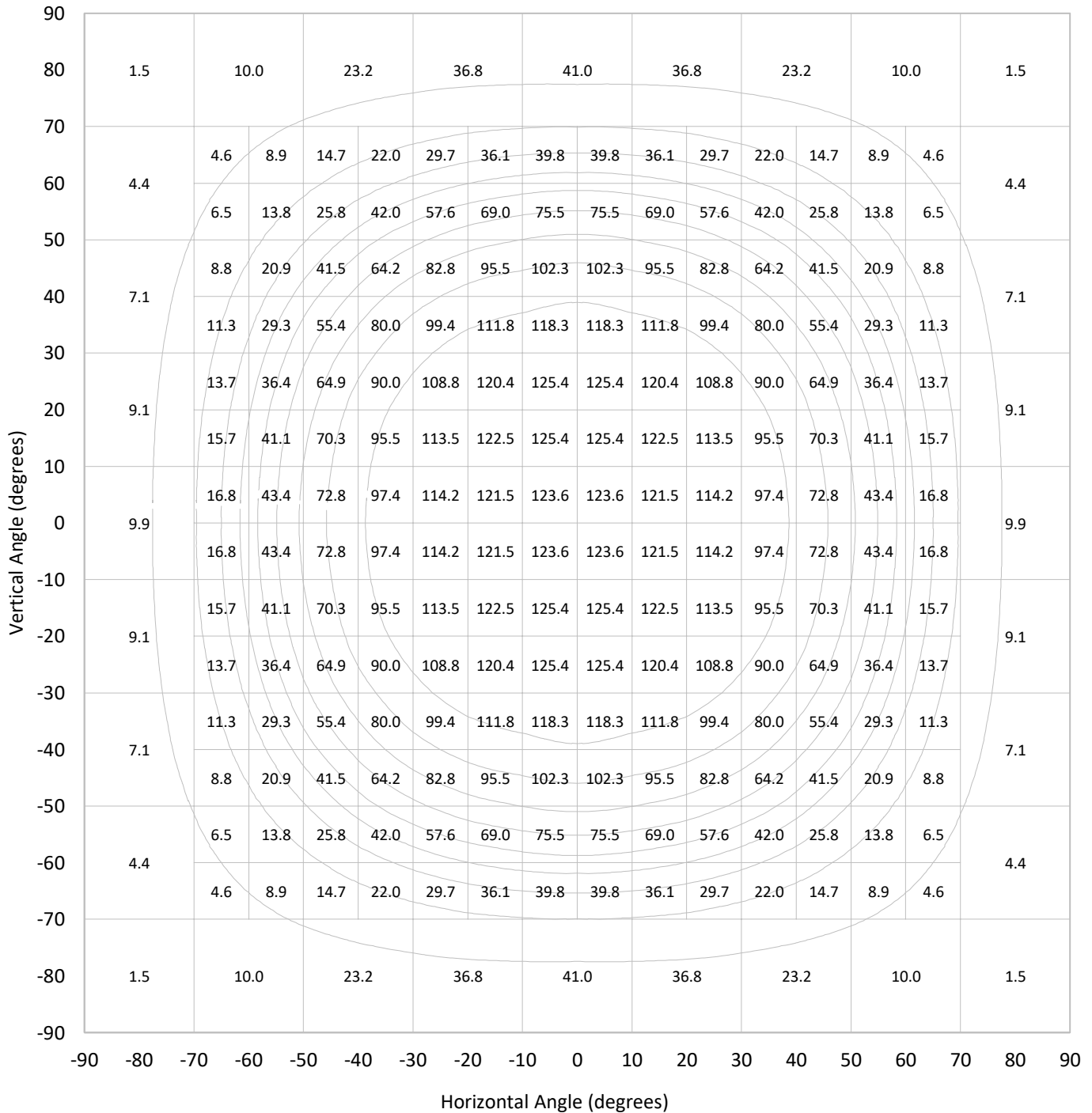
Iso-Candela Plot





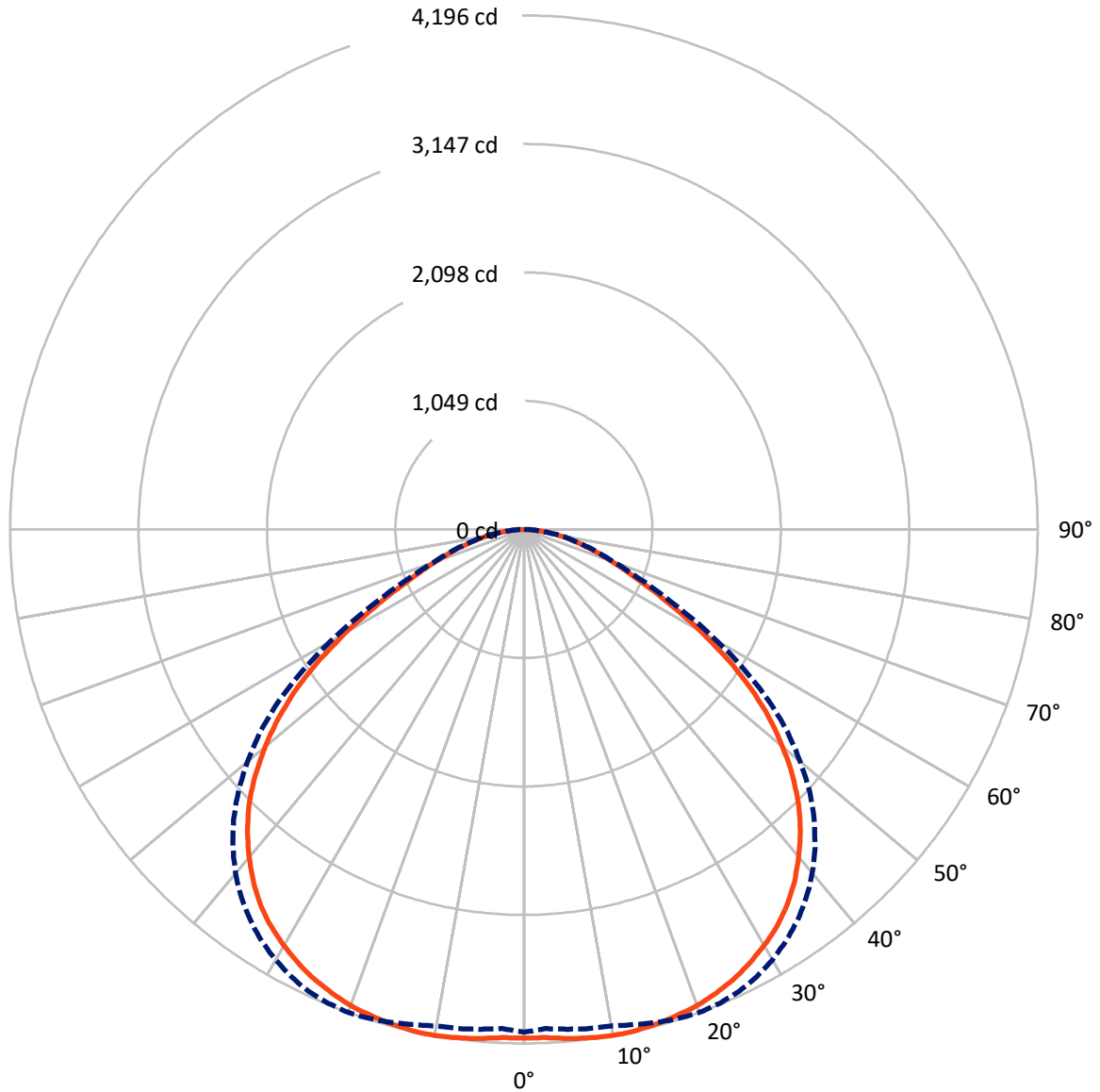
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Lumen Table



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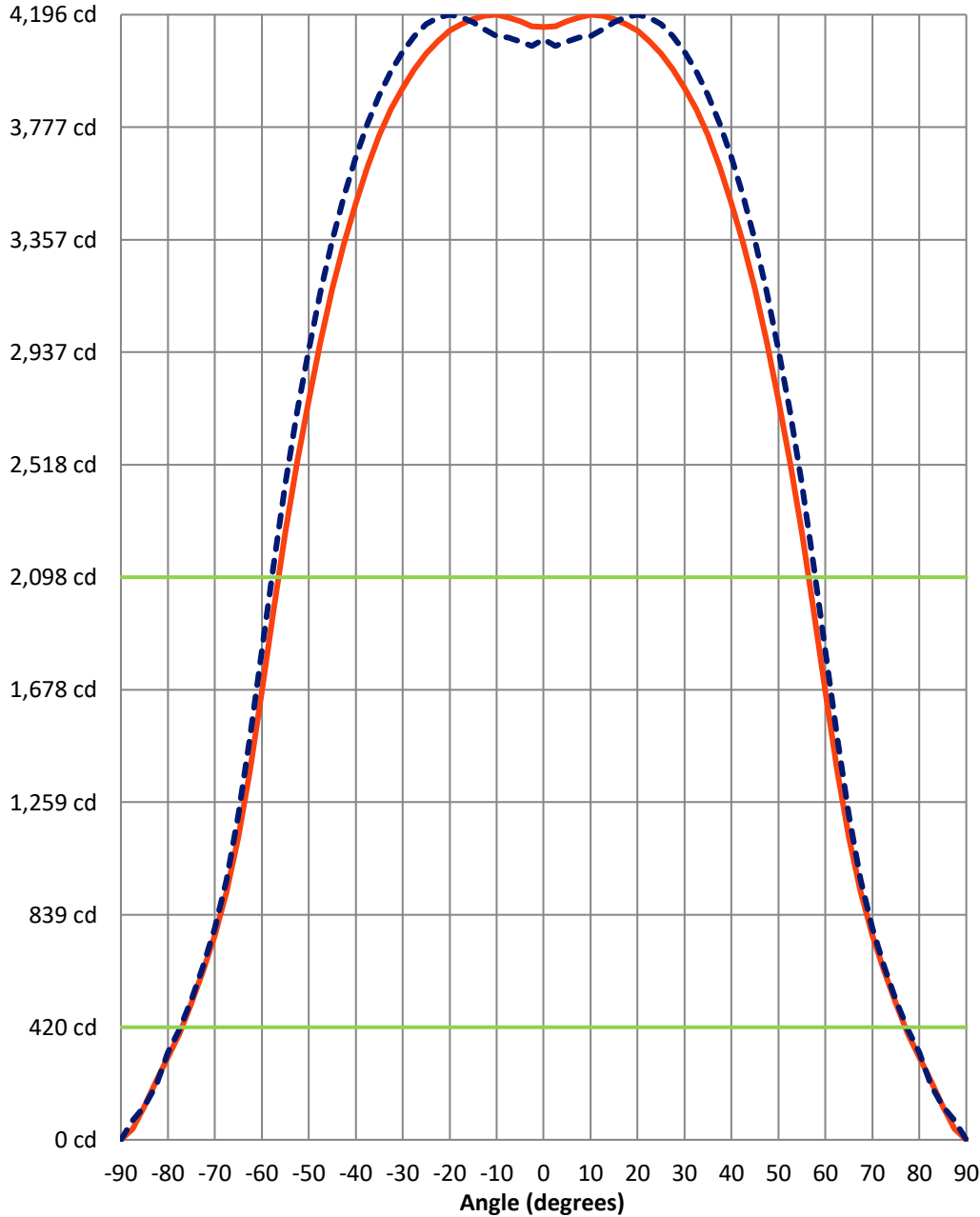
Luminous Intensity Polar Plot



— 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: 7899.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 9469.9
 Efficiency: 73.6%

Spill:
 Lumens: 3403.3
 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°	33.9	36.6	37.9	39.3	40.6	42.0	43.3	42.0	40.6	40.6	39.3
85°	90.7	93.5	94.8	104.3	113.8	119.2	126.0	124.6	124.6	123.3	121.9
82.5°	181.5	189.6	196.4	205.9	211.3	219.4	224.8	220.8	218.1	212.7	208.6
80°	322.4	325.1	326.4	327.8	321.0	319.7	316.9	312.9	307.5	300.7	293.9
77.5°	410.4	413.1	415.8	413.1	411.8	410.4	406.3	402.3	396.9	391.4	383.3
75°	543.1	543.1	543.1	539.1	536.4	532.3	525.5	518.8	509.3	498.4	486.3
72.5°	684.0	682.7	681.3	673.2	666.4	658.3	648.8	640.7	629.8	617.6	601.4
70°	831.6	834.4	835.7	824.9	816.7	805.9	793.7	778.8	762.6	745.0	721.9
67.5°	1034.8	1032.1	1029.4	1014.5	1003.7	988.8	971.2	949.5	925.1	898.0	865.5
65°	1286.7	1290.8	1282.7	1267.8	1247.5	1223.1	1196.0	1164.8	1128.3	1087.6	1041.6
62.5°	1591.5	1598.3	1588.8	1569.8	1544.1	1511.6	1473.7	1429.0	1378.9	1322.0	1265.1
60°	1938.3	1936.9	1919.3	1893.6	1859.7	1819.1	1777.1	1728.3	1671.4	1605.1	1536.0
57.5°	2256.6	2253.8	2232.2	2206.4	2172.6	2129.2	2084.5	2033.1	1973.5	1903.0	1823.1
55°	2542.3	2539.6	2518.0	2490.9	2455.7	2412.3	2371.7	2322.9	2264.7	2190.2	2104.9
52.5°	2795.6	2797.0	2778.0	2748.2	2710.3	2668.3	2629.0	2580.3	2524.7	2450.2	2367.6
50°	3028.6	3027.2	3006.9	2979.8	2944.6	2904.0	2864.7	2816.0	2757.7	2685.9	2606.0
47.5°	3245.3	3242.6	3219.6	3189.8	3153.2	3118.0	3081.4	3038.1	2977.1	2905.3	2825.4
45°	3426.8	3421.4	3398.4	3369.9	3334.7	3303.6	3271.1	3238.5	3173.5	3107.2	3031.3
42.5°	3582.6	3581.2	3558.2	3529.8	3494.5	3467.5	3437.7	3397.0	3342.8	3281.9	3207.4
40°	3731.6	3720.7	3697.7	3670.6	3638.1	3615.1	3585.3	3544.7	3491.8	3432.2	3360.4
37.5°	3842.6	3844.0	3819.6	3789.8	3761.4	3739.7	3712.6	3674.7	3628.6	3570.4	3498.6
35°	3948.3	3941.5	3921.2	3895.5	3869.7	3845.4	3816.9	3784.4	3746.5	3692.3	3624.6
32.5°	4017.4	4026.8	4002.5	3975.4	3960.5	3941.5	3911.7	3877.9	3844.0	3789.8	3728.9
30°	4093.2	4085.1	4066.1	4043.1	4032.3	4020.1	3994.3	3961.8	3922.6	3873.8	3816.9
27.5°	4146.0	4142.0	4119.0	4097.3	4091.9	4081.0	4060.7	4032.3	3993.0	3945.6	3892.8
25°	4169.1	4171.8	4150.1	4137.9	4137.9	4131.1	4114.9	4090.5	4051.2	4007.9	3956.4
22.5°	4179.9	4177.2	4162.3	4159.6	4166.4	4160.9	4154.2	4132.5	4097.3	4062.1	4018.7
20°	4186.7	4167.7	4154.2	4165.0	4173.1	4171.8	4166.4	4152.8	4136.6	4106.8	4068.8
17.5°	4171.8	4159.6	4143.3	4159.6	4177.2	4178.6	4173.1	4165.0	4160.9	4142.0	4108.1
15°	4135.2	4125.7	4128.4	4144.7	4165.0	4171.8	4175.8	4185.3	4179.9	4165.0	4135.2
12.5°	4110.8	4098.6	4110.8	4127.1	4137.9	4142.0	4174.5	4192.1	4192.1	4178.6	4159.6
10°	4104.1	4079.7	4095.9	4110.8	4116.2	4140.6	4167.7	4186.7	4196.2	4185.3	4160.9
7.5°	4090.5	4074.3	4081.0	4087.8	4119.0	4136.6	4151.5	4171.8	4185.3	4184.0	4162.3
5°	4083.7	4063.4	4066.1	4094.6	4116.2	4128.4	4133.9	4151.5	4171.8	4175.8	4159.6
2.5°	4066.1	4056.6	4077.0	4079.7	4095.9	4105.4	4110.8	4127.1	4152.8	4162.3	4155.5
0°	4056.6	4043.1	4029.6	4040.4	4067.5	4087.8	4095.9	4120.3	4150.1	4159.6	4144.7



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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°	37.9	36.6	35.2	33.9	35.2	35.2	35.2	33.9	35.2	33.9	33.9
85°	117.8	112.4	108.4	102.9	97.5	93.5	88.0	82.6	81.3	79.9	77.2
82.5°	203.2	196.4	189.6	181.5	173.4	163.9	154.4	143.6	140.9	138.2	134.1
80°	285.8	276.3	266.8	257.3	249.2	239.7	228.9	216.7	208.6	201.8	193.7
77.5°	372.5	358.9	345.4	329.1	319.7	310.2	299.3	287.1	275.0	264.1	251.9
75°	471.4	456.5	442.9	426.7	409.1	391.4	373.8	357.6	340.0	323.7	307.5
72.5°	581.1	559.4	537.7	517.4	495.7	474.1	451.0	429.4	407.7	386.0	363.0
70°	696.2	669.1	642.0	614.9	586.5	558.0	531.0	503.9	476.8	448.3	422.6
67.5°	831.6	800.5	765.3	727.4	685.4	648.8	613.6	581.1	548.6	516.1	483.5
65°	1001.0	957.6	910.2	858.7	810.0	761.2	709.7	661.0	623.1	585.1	548.6
62.5°	1209.5	1148.6	1082.2	1015.9	956.3	892.6	833.0	769.3	709.7	655.6	610.9
60°	1458.8	1376.1	1294.9	1209.5	1126.9	1040.2	964.4	885.8	811.3	745.0	679.9
57.5°	1733.7	1637.6	1540.0	1435.7	1323.3	1221.7	1118.8	1015.9	927.8	839.8	766.6
55°	2012.7	1911.2	1801.4	1683.6	1560.4	1430.3	1290.8	1175.7	1055.1	952.2	857.4
52.5°	2278.2	2172.6	2058.8	1950.4	1802.8	1653.8	1500.8	1349.1	1208.2	1076.8	961.7
50°	2515.3	2412.3	2302.6	2176.6	2039.8	1881.4	1710.7	1540.0	1373.4	1219.0	1075.5
47.5°	2732.0	2631.7	2522.0	2396.1	2271.5	2095.4	1923.4	1735.1	1549.5	1372.1	1204.1
45°	2935.1	2833.6	2719.8	2599.2	2455.7	2298.5	2121.1	1931.5	1732.4	1533.3	1339.6
42.5°	3119.4	3017.8	2902.6	2778.0	2635.8	2480.0	2308.0	2117.0	1916.6	1699.9	1487.2
40°	3280.5	3181.7	3070.6	2940.6	2807.8	2643.9	2474.6	2293.1	2085.9	1867.8	1633.5
37.5°	3421.4	3329.3	3219.6	3090.9	2950.0	2803.8	2629.0	2447.5	2260.6	2023.6	1783.8
35°	3546.0	3460.7	3348.3	3226.4	3088.2	2933.8	2769.9	2592.5	2390.6	2168.5	1935.5
32.5°	3654.4	3567.7	3464.7	3342.8	3208.7	3063.8	2895.9	2717.1	2526.1	2299.9	2046.6
30°	3746.5	3662.5	3565.0	3449.8	3321.2	3177.6	3013.7	2833.6	2638.5	2413.7	2163.1
27.5°	3826.4	3746.5	3651.7	3544.7	3421.4	3283.2	3118.0	2936.5	2737.4	2520.7	2270.1
25°	3895.5	3818.3	3730.2	3628.6	3506.7	3371.3	3215.5	3025.9	2826.8	2608.7	2360.8
22.5°	3957.8	3883.3	3795.2	3696.4	3585.3	3449.8	3292.7	3104.5	2902.6	2687.3	2443.5
20°	4013.3	3944.2	3857.5	3756.0	3644.9	3508.1	3352.3	3173.5	2970.4	2759.1	2518.0
17.5°	4058.0	3997.1	3910.4	3803.4	3692.3	3559.6	3407.9	3244.0	3028.6	2820.0	2580.3
15°	4089.2	4029.6	3951.0	3842.6	3734.3	3602.9	3451.2	3281.9	3081.4	2868.8	2631.7
12.5°	4110.8	4047.2	3974.0	3873.8	3765.4	3635.4	3487.8	3321.2	3126.1	2912.1	2676.4
10°	4116.2	4058.0	3984.9	3895.5	3789.8	3663.9	3518.9	3353.7	3162.7	2946.0	2713.0
7.5°	4119.0	4063.4	3997.1	3911.7	3807.4	3685.5	3541.9	3379.4	3189.8	2974.4	2740.1
5°	4117.6	4064.8	4005.2	3922.6	3818.3	3697.7	3556.8	3397.0	3208.7	2993.4	2760.4
2.5°	4113.5	4066.1	4010.6	3930.7	3830.5	3711.3	3571.7	3417.3	3229.1	3009.6	2776.7
0°	4124.4	4083.7	4013.3	3928.0	3833.2	3711.3	3570.4	3420.0	3231.8	3008.3	2775.3



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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°	33.9	32.5	32.5	31.2	29.8	28.4	25.7	24.4	21.7	17.6	13.5
85°	73.1	69.1	65.0	62.3	59.6	56.9	52.8	48.8	43.3	35.2	27.1
82.5°	128.7	120.5	112.4	102.9	94.8	86.7	79.9	73.1	65.0	52.8	40.6
80°	184.2	172.0	159.8	146.3	134.1	120.5	108.4	97.5	86.7	70.4	54.2
77.5°	239.7	223.5	205.9	189.6	172.0	154.4	136.8	121.9	105.6	86.7	67.7
75°	291.2	272.2	256.0	233.0	211.3	188.3	165.2	144.9	124.6	101.6	81.3
72.5°	342.7	318.3	295.3	273.6	249.2	220.8	195.0	169.3	143.6	116.5	92.1
70°	394.2	364.4	335.9	310.2	283.1	254.6	223.5	193.7	162.5	130.0	101.6
67.5°	447.0	413.1	380.6	348.1	316.9	284.4	251.9	218.1	181.5	143.6	112.4
65°	505.2	463.2	424.0	387.4	350.8	315.6	279.0	242.5	201.8	158.5	121.9
62.5°	563.5	517.4	471.4	425.3	384.7	345.4	306.1	265.5	220.8	174.7	131.4
60°	625.8	572.9	520.1	468.6	418.5	375.2	331.8	288.5	241.1	189.6	140.9
57.5°	694.8	631.2	571.6	513.3	456.5	405.0	357.6	311.5	258.7	204.5	151.7
55°	773.4	694.8	624.4	559.4	497.1	434.8	383.3	335.9	279.0	219.4	163.9
52.5°	856.0	765.3	679.9	606.8	540.4	470.0	407.7	354.9	299.3	234.3	174.7
50°	952.2	837.1	742.3	652.9	578.4	505.2	433.4	376.5	319.7	251.9	185.6
47.5°	1051.1	923.8	804.6	707.0	619.0	539.1	463.2	395.5	338.6	268.2	196.4
45°	1166.2	1006.4	875.0	759.9	658.3	574.3	493.0	415.8	354.9	284.4	207.2
42.5°	1277.3	1103.9	948.1	818.1	703.0	608.2	520.1	437.5	371.1	300.7	216.7
40°	1408.7	1201.4	1018.6	873.6	747.7	640.7	547.2	460.5	386.0	315.6	226.2
37.5°	1534.6	1300.3	1103.9	934.6	791.0	673.2	574.3	482.2	399.6	330.5	238.4
35°	1659.2	1410.0	1185.2	991.5	835.7	709.7	601.4	502.5	413.1	342.7	249.2
32.5°	1778.4	1512.9	1267.8	1055.1	884.5	743.6	625.8	521.5	426.7	353.5	260.1
30°	1889.5	1610.5	1349.1	1120.1	929.2	774.8	648.8	540.4	442.9	363.0	270.9
27.5°	1991.1	1705.3	1430.3	1181.1	971.2	803.2	673.2	558.0	456.5	372.5	280.4
25°	2083.2	1790.6	1504.8	1236.6	1009.1	834.4	696.2	575.7	468.6	380.6	288.5
22.5°	2169.9	1869.2	1572.5	1292.2	1055.1	865.5	717.9	591.9	480.8	388.7	296.6
20°	2245.7	1941.0	1637.6	1347.7	1095.8	894.0	736.8	606.8	491.7	394.2	304.8
17.5°	2306.7	2004.6	1695.8	1396.5	1131.0	918.3	753.1	620.3	501.2	400.9	310.2
15°	2360.8	2058.8	1744.6	1438.5	1162.1	938.7	768.0	631.2	509.3	405.0	316.9
12.5°	2406.9	2104.9	1786.6	1475.0	1189.2	956.3	780.2	639.3	516.1	409.1	321.0
10°	2444.8	2141.4	1821.8	1503.5	1210.9	969.8	789.7	647.4	521.5	413.1	325.1
7.5°	2473.3	2168.5	1847.5	1527.8	1228.5	979.3	797.8	652.9	526.9	415.8	331.8
5°	2494.9	2191.5	1867.8	1544.1	1242.1	992.8	807.3	659.6	532.3	418.5	331.8
2.5°	2511.2	2210.5	1884.1	1557.6	1252.9	990.1	807.3	658.3	532.3	418.5	330.5
0°	2508.5	2211.9	1882.7	1557.6	1252.9	987.4	807.3	656.9	532.3	418.5	330.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.5	6.8	2.7	0.0
85°	20.3	13.5	6.8	0.0
82.5°	29.8	19.0	9.5	0.0
80°	39.3	25.7	12.2	0.0
77.5°	50.1	32.5	16.3	0.0
75°	59.6	37.9	19.0	0.0
72.5°	69.1	44.7	21.7	0.0
70°	77.2	50.1	24.4	0.0
67.5°	85.3	56.9	28.4	0.0
65°	92.1	62.3	31.2	0.0
62.5°	97.5	69.1	33.9	0.0
60°	104.3	74.5	36.6	0.0
57.5°	109.7	78.6	39.3	0.0
55°	115.1	81.3	42.0	0.0
52.5°	120.5	85.3	44.7	0.0
50°	126.0	89.4	47.4	0.0
47.5°	131.4	92.1	48.8	0.0
45°	139.5	96.2	51.5	0.0
42.5°	146.3	98.9	54.2	0.0
40°	153.1	101.6	55.5	0.0
37.5°	159.8	104.3	58.2	0.0
35°	166.6	107.0	59.6	0.0
32.5°	172.0	109.7	61.0	0.0
30°	177.4	112.4	62.3	0.0
27.5°	182.9	113.8	63.7	0.0
25°	186.9	116.5	65.0	0.0
22.5°	191.0	117.8	66.4	0.0
20°	193.7	119.2	67.7	0.0
17.5°	197.8	120.5	69.1	0.0
15°	199.1	121.9	71.8	0.0
12.5°	201.8	123.3	71.8	0.0
10°	203.2	124.6	71.8	0.0
7.5°	205.9	124.6	71.8	0.0
5°	204.5	124.6	71.8	0.0
2.5°	204.5	124.6	71.8	0.0
0°	203.2	124.6	71.8	0.0

(END OF REPORT)