

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: P628447

Luminaire Tested: **IFLD-S-SA3C-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628447
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-930-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13951.9 lumens	Max Intensity:	4547.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	86.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

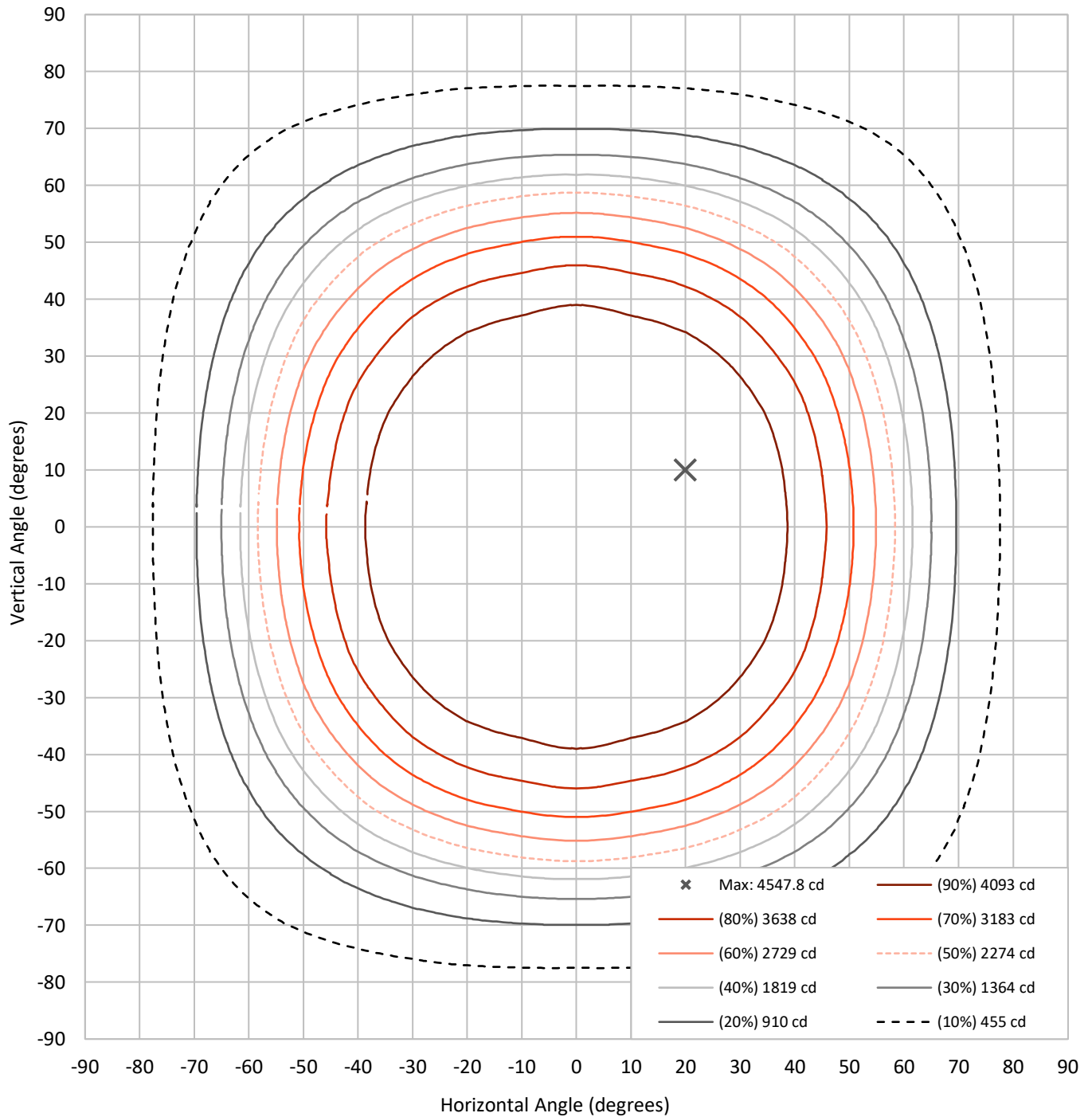
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8561.2 lumens	Field Lumens:	10263.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 160.8
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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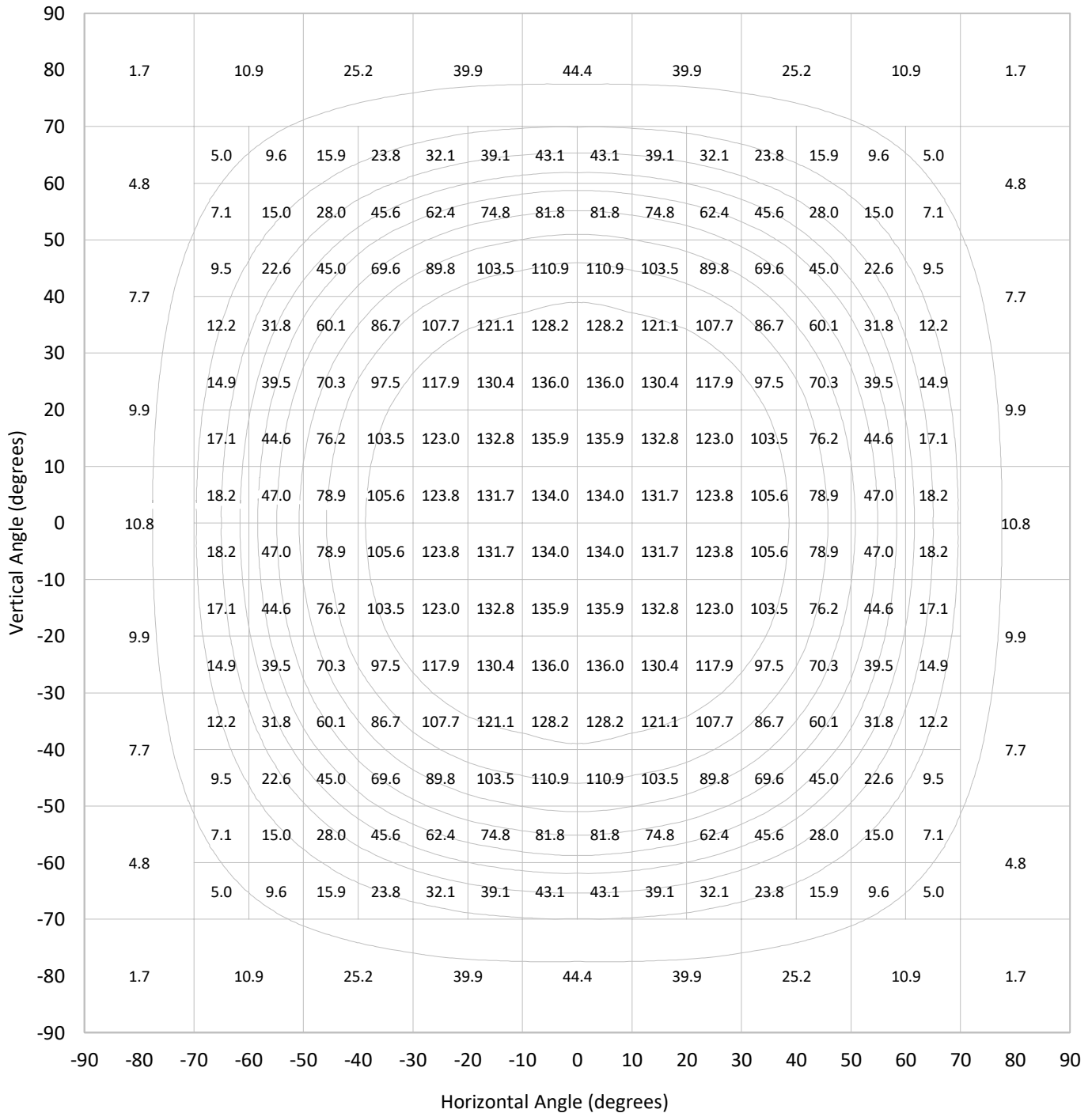
Iso-Candela Plot





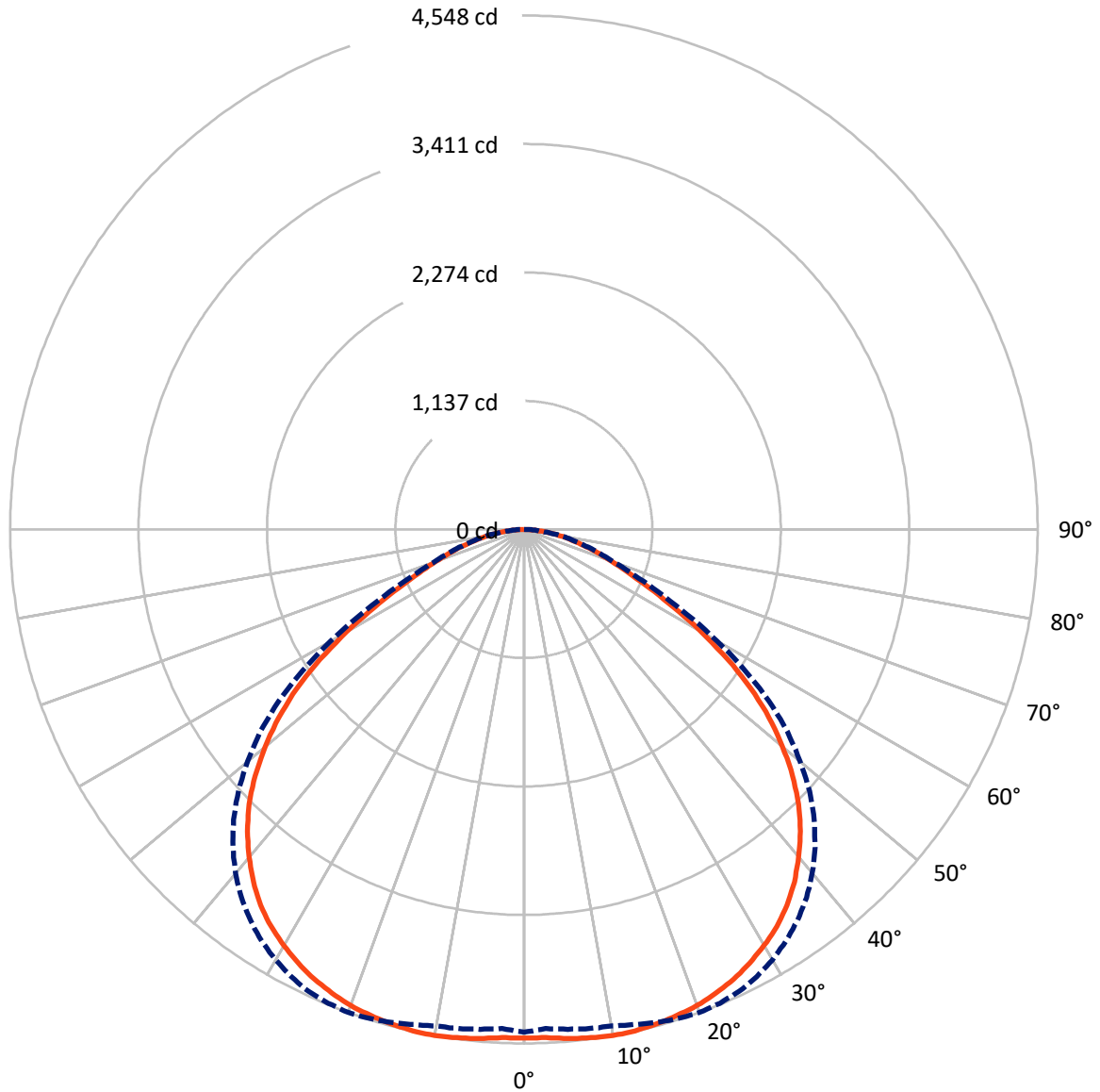
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Lumen Table



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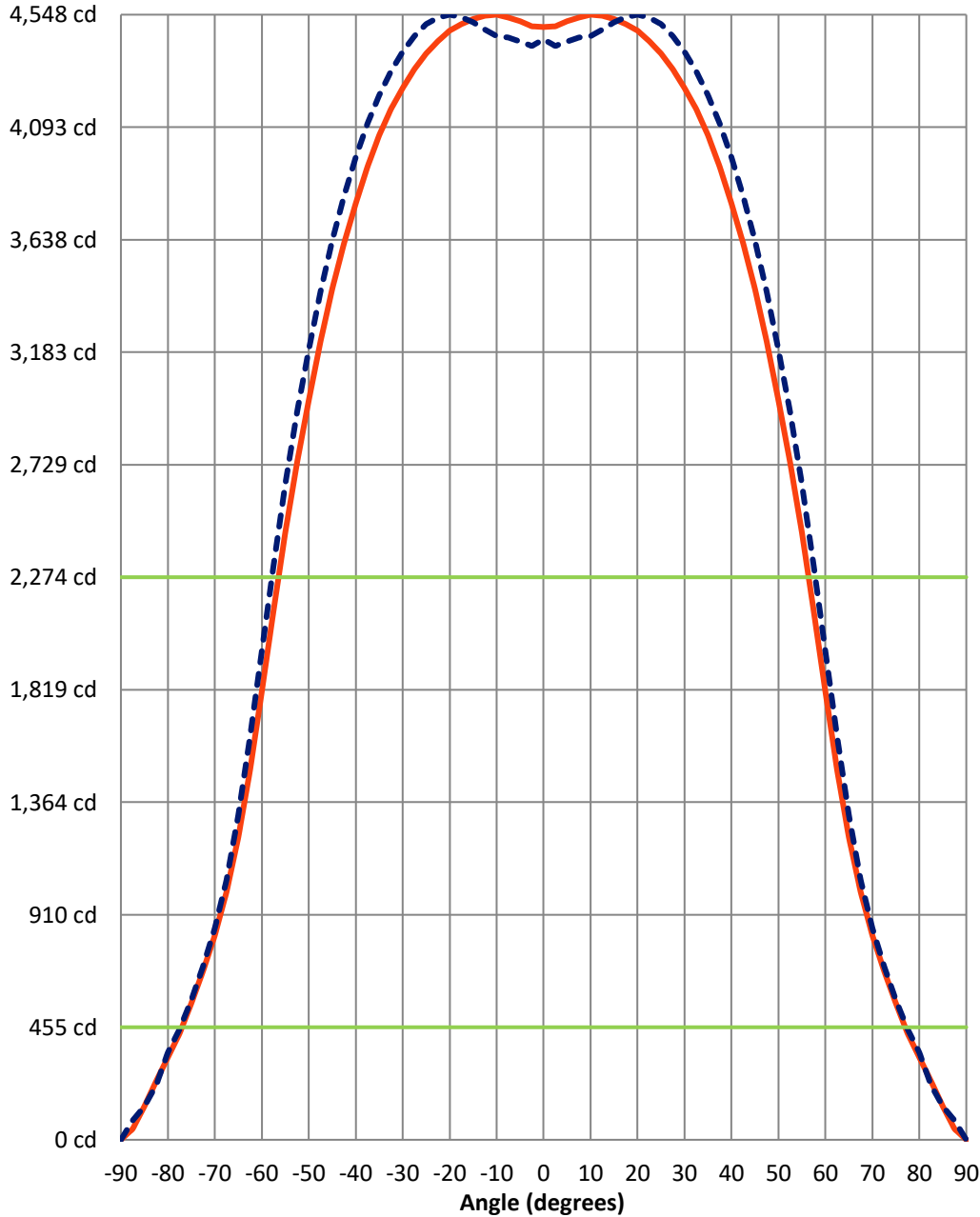
Luminous Intensity Polar Plot



— 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: 8561.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10263.4
 Efficiency: 73.6%

Spill:
 Lumens: 3688.5
 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°	36.7	39.6	41.1	42.6	44.0	45.5	47.0	45.5	44.0	44.0	42.6
85°	98.4	101.3	102.8	113.0	123.3	129.2	136.5	135.1	135.1	133.6	132.1
82.5°	196.7	205.5	212.9	223.1	229.0	237.8	243.7	239.3	236.3	230.5	226.1
80°	349.4	352.3	353.8	355.2	347.9	346.4	343.5	339.1	333.2	325.9	318.5
77.5°	444.8	447.7	450.7	447.7	446.3	444.8	440.4	436.0	430.1	424.2	415.4
75°	588.7	588.7	588.7	584.3	581.3	576.9	569.6	562.2	552.0	540.2	527.0
72.5°	741.3	739.9	738.4	729.6	722.2	713.4	703.2	694.3	682.6	669.4	651.8
70°	901.3	904.3	905.7	894.0	885.2	873.4	860.2	844.1	826.5	807.4	782.4
67.5°	1121.5	1118.6	1115.7	1099.5	1087.8	1071.6	1052.5	1029.0	1002.6	973.3	938.0
65°	1394.6	1399.0	1390.2	1374.0	1352.0	1325.6	1296.2	1262.5	1222.8	1178.8	1128.9
62.5°	1724.9	1732.2	1721.9	1701.4	1673.5	1638.3	1597.1	1548.7	1494.4	1432.7	1371.1
60°	2100.7	2099.2	2080.1	2052.2	2015.5	1971.5	1926.0	1873.1	1811.5	1739.5	1664.7
57.5°	2445.6	2442.7	2419.2	2391.3	2354.6	2307.6	2259.2	2203.4	2138.8	2062.5	1975.9
55°	2755.4	2752.4	2729.0	2699.6	2661.4	2614.5	2570.4	2517.6	2454.4	2373.7	2281.2
52.5°	3029.9	3031.4	3010.8	2978.5	2937.4	2891.9	2849.3	2796.5	2736.3	2655.6	2566.0
50°	3282.4	3280.9	3258.9	3229.5	3191.4	3147.3	3104.8	3051.9	2988.8	2911.0	2824.4
47.5°	3517.3	3514.3	3489.4	3457.1	3417.4	3379.3	3339.6	3292.7	3226.6	3148.8	3062.2
45°	3714.0	3708.1	3683.1	3652.3	3614.1	3580.4	3545.1	3509.9	3439.4	3367.5	3285.3
42.5°	3882.8	3881.3	3856.4	3825.5	3787.4	3758.0	3725.7	3681.7	3622.9	3556.9	3476.1
40°	4044.3	4032.5	4007.6	3978.2	3943.0	3918.0	3885.7	3841.7	3784.4	3719.8	3642.0
37.5°	4164.6	4166.1	4139.7	4107.4	4076.5	4053.1	4023.7	3982.6	3932.7	3869.6	3791.8
35°	4279.1	4271.8	4249.8	4221.9	4194.0	4167.6	4136.7	4101.5	4060.4	4001.7	3928.3
32.5°	4354.0	4364.3	4337.8	4308.5	4292.3	4271.8	4239.5	4202.8	4166.1	4107.4	4041.3
30°	4436.2	4427.4	4406.8	4381.9	4370.1	4356.9	4329.0	4293.8	4251.2	4198.4	4136.7
27.5°	4493.5	4489.0	4464.1	4440.6	4434.7	4423.0	4401.0	4370.1	4327.6	4276.2	4218.9
25°	4518.4	4521.3	4497.9	4484.6	4484.6	4477.3	4459.7	4433.3	4390.7	4343.7	4287.9
22.5°	4530.1	4527.2	4511.1	4508.1	4515.5	4509.6	4502.3	4478.8	4440.6	4402.4	4355.5
20°	4537.5	4516.9	4502.3	4514.0	4522.8	4521.3	4515.5	4500.8	4483.2	4450.9	4409.8
17.5°	4521.3	4508.1	4490.5	4508.1	4527.2	4528.7	4522.8	4514.0	4509.6	4489.0	4452.3
15°	4481.7	4471.4	4474.4	4492.0	4514.0	4521.3	4525.7	4536.0	4530.1	4514.0	4481.7
12.5°	4455.3	4442.1	4455.3	4472.9	4484.6	4489.0	4524.3	4543.4	4543.4	4528.7	4508.1
10°	4447.9	4421.5	4439.1	4455.3	4461.2	4487.6	4516.9	4537.5	4547.8	4536.0	4509.6
7.5°	4433.3	4415.6	4423.0	4430.3	4464.1	4483.2	4499.3	4521.3	4536.0	4534.6	4511.1
5°	4425.9	4403.9	4406.8	4437.7	4461.2	4474.4	4480.2	4499.3	4521.3	4525.7	4508.1
2.5°	4406.8	4396.6	4418.6	4421.5	4439.1	4449.4	4455.3	4472.9	4500.8	4511.1	4503.7
0°	4396.6	4381.9	4367.2	4378.9	4408.3	4430.3	4439.1	4465.6	4497.9	4508.1	4492.0



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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°	41.1	39.6	38.2	36.7	38.2	38.2	38.2	36.7	38.2	36.7	36.7
85°	127.7	121.8	117.4	111.6	105.7	101.3	95.4	89.5	88.1	86.6	83.7
82.5°	220.2	212.9	205.5	196.7	187.9	177.6	167.3	155.6	152.7	149.7	145.3
80°	309.7	299.5	289.2	278.9	270.1	259.8	248.1	234.9	226.1	218.7	209.9
77.5°	403.7	389.0	374.3	356.7	346.4	336.2	324.4	311.2	298.0	286.3	273.0
75°	510.9	494.7	480.0	462.4	443.3	424.2	405.2	387.5	368.5	350.8	333.2
72.5°	629.8	606.3	582.8	560.8	537.3	513.8	488.8	465.3	441.9	418.4	393.4
70°	754.5	725.2	695.8	666.5	635.6	604.8	575.4	546.1	516.7	485.9	458.0
67.5°	901.3	867.6	829.4	788.3	742.8	703.2	665.0	629.8	594.5	559.3	524.1
65°	1084.8	1037.9	986.5	930.7	877.8	825.0	769.2	716.4	675.3	634.2	594.5
62.5°	1310.9	1244.8	1172.9	1101.0	1036.4	967.4	902.8	833.8	769.2	710.5	662.1
60°	1581.0	1491.5	1403.4	1310.9	1221.3	1127.4	1045.2	960.1	879.3	807.4	736.9
57.5°	1879.0	1774.8	1669.1	1556.0	1434.2	1324.1	1212.5	1101.0	1005.6	910.1	830.9
55°	2181.4	2071.3	1952.4	1824.7	1691.1	1550.2	1399.0	1274.2	1143.5	1032.0	929.2
52.5°	2469.1	2354.6	2231.3	2113.9	1953.9	1792.4	1626.5	1462.1	1309.4	1167.0	1042.3
50°	2726.0	2614.5	2495.5	2359.0	2210.8	2039.0	1854.0	1669.1	1488.5	1321.2	1165.6
47.5°	2960.9	2852.3	2733.4	2596.8	2461.8	2270.9	2084.5	1880.5	1679.4	1487.1	1305.0
45°	3181.1	3071.0	2947.7	2817.0	2661.4	2491.1	2298.8	2093.3	1877.5	1661.7	1451.8
42.5°	3380.7	3270.6	3145.9	3010.8	2856.7	2687.8	2501.4	2294.4	2077.2	1842.3	1611.8
40°	3555.4	3448.3	3327.9	3187.0	3043.1	2865.5	2682.0	2485.3	2260.7	2024.3	1770.4
37.5°	3708.1	3608.3	3489.4	3349.9	3197.2	3038.7	2849.3	2652.6	2450.0	2193.1	1933.3
35°	3843.1	3750.7	3628.8	3496.7	3347.0	3179.6	3002.0	2809.7	2591.0	2350.2	2097.7
32.5°	3960.6	3866.6	3755.1	3622.9	3477.6	3320.5	3138.5	2944.7	2737.8	2492.6	2218.1
30°	4060.4	3969.4	3863.7	3738.9	3599.5	3443.9	3266.2	3071.0	2859.6	2615.9	2344.3
27.5°	4147.0	4060.4	3957.6	3841.7	3708.1	3558.4	3379.3	3182.6	2966.8	2731.9	2460.3
25°	4221.9	4138.2	4042.8	3932.7	3800.6	3653.8	3485.0	3279.4	3063.6	2827.3	2558.7
22.5°	4289.4	4208.7	4113.2	4006.1	3885.7	3738.9	3568.6	3364.6	3145.9	2912.4	2648.2
20°	4349.6	4274.7	4180.8	4070.7	3950.3	3802.0	3633.2	3439.4	3219.3	2990.3	2729.0
17.5°	4398.0	4332.0	4238.0	4122.1	4001.7	3857.8	3693.4	3515.8	3282.4	3056.3	2796.5
15°	4431.8	4367.2	4282.1	4164.6	4047.2	3904.8	3740.4	3556.9	3339.6	3109.2	2852.3
12.5°	4455.3	4386.3	4307.0	4198.4	4081.0	3940.0	3780.0	3599.5	3388.1	3156.1	2900.7
10°	4461.2	4398.0	4318.8	4221.9	4107.4	3970.9	3813.8	3634.7	3427.7	3192.8	2940.3
7.5°	4464.1	4403.9	4332.0	4239.5	4126.5	3994.3	3838.7	3662.6	3457.1	3223.7	2969.7
5°	4462.6	4405.4	4340.8	4251.2	4138.2	4007.6	3854.9	3681.7	3477.6	3244.2	2991.7
2.5°	4458.2	4406.8	4346.7	4260.0	4151.4	4022.2	3871.0	3703.7	3499.6	3261.8	3009.3
0°	4470.0	4425.9	4349.6	4257.1	4154.3	4022.2	3869.6	3706.6	3502.6	3260.4	3007.9



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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°	36.7	35.2	35.2	33.8	32.3	30.8	27.9	26.4	23.5	19.1	14.7
85°	79.3	74.9	70.5	67.5	64.6	61.7	57.3	52.8	47.0	38.2	29.4
82.5°	139.5	130.6	121.8	111.6	102.8	93.9	86.6	79.3	70.5	57.3	44.0
80°	199.6	186.4	173.2	158.5	145.3	130.6	117.4	105.7	93.9	76.3	58.7
77.5°	259.8	242.2	223.1	205.5	186.4	167.3	148.3	132.1	114.5	93.9	73.4
75°	315.6	295.1	277.4	252.5	229.0	204.0	179.1	157.1	135.1	110.1	88.1
72.5°	371.4	345.0	320.0	296.5	270.1	239.3	211.4	183.5	155.6	126.2	99.8
70°	427.2	394.9	364.1	336.2	306.8	276.0	242.2	209.9	176.2	140.9	110.1
67.5°	484.4	447.7	412.5	377.3	343.5	308.3	273.0	236.3	196.7	155.6	121.8
65°	547.6	502.0	459.5	419.8	380.2	342.0	302.4	262.8	218.7	171.8	132.1
62.5°	610.7	560.8	510.9	460.9	416.9	374.3	331.8	287.7	239.3	189.4	142.4
60°	678.2	621.0	563.7	507.9	453.6	406.6	359.7	312.7	261.3	205.5	152.7
57.5°	753.1	684.1	619.5	556.4	494.7	438.9	387.5	337.6	280.4	221.7	164.4
55°	838.2	753.1	676.7	606.3	538.7	471.2	415.4	364.1	302.4	237.8	177.6
52.5°	927.8	829.4	736.9	657.6	585.7	509.4	441.9	384.6	324.4	254.0	189.4
50°	1032.0	907.2	804.4	707.6	626.8	547.6	469.7	408.1	346.4	273.0	201.1
47.5°	1139.1	1001.2	872.0	766.3	670.9	584.3	502.0	428.6	367.0	290.7	212.9
45°	1263.9	1090.7	948.3	823.5	713.4	622.4	534.3	450.7	384.6	308.3	224.6
42.5°	1384.3	1196.4	1027.6	886.7	761.9	659.1	563.7	474.2	402.2	325.9	234.9
40°	1526.7	1302.1	1103.9	946.8	810.3	694.3	593.1	499.1	418.4	342.0	245.2
37.5°	1663.2	1409.2	1196.4	1012.9	857.3	729.6	622.4	522.6	433.1	358.2	258.4
35°	1798.3	1528.2	1284.5	1074.6	905.7	769.2	651.8	544.6	447.7	371.4	270.1
32.5°	1927.4	1639.7	1374.0	1143.5	958.6	805.9	678.2	565.2	462.4	383.1	281.8
30°	2047.8	1745.4	1462.1	1214.0	1007.0	839.7	703.2	585.7	480.0	393.4	293.6
27.5°	2157.9	1848.2	1550.2	1280.1	1052.5	870.5	729.6	604.8	494.7	403.7	303.9
25°	2257.7	1940.7	1630.9	1340.3	1093.6	904.3	754.5	623.9	507.9	412.5	312.7
22.5°	2351.7	2025.8	1704.3	1400.4	1143.5	938.0	778.0	641.5	521.1	421.3	321.5
20°	2433.9	2103.6	1774.8	1460.6	1187.6	968.9	798.6	657.6	532.9	427.2	330.3
17.5°	2499.9	2172.6	1837.9	1513.5	1225.8	995.3	816.2	672.3	543.1	434.5	336.2
15°	2558.7	2231.3	1890.7	1559.0	1259.5	1017.3	832.3	684.1	552.0	438.9	343.5
12.5°	2608.6	2281.2	1936.2	1598.6	1288.9	1036.4	845.5	692.9	559.3	443.3	347.9
10°	2649.7	2320.9	1974.4	1629.4	1312.4	1051.1	855.8	701.7	565.2	447.7	352.3
7.5°	2680.5	2350.2	2002.3	1655.9	1331.4	1061.3	864.6	707.6	571.0	450.7	359.7
5°	2704.0	2375.2	2024.3	1673.5	1346.1	1076.0	874.9	714.9	576.9	453.6	359.7
2.5°	2721.6	2395.7	2041.9	1688.2	1357.9	1073.1	874.9	713.4	576.9	453.6	358.2
0°	2718.7	2397.2	2040.5	1688.2	1357.9	1070.1	874.9	712.0	576.9	453.6	358.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.3	7.3	2.9	0.0
85°	22.0	14.7	7.3	0.0
82.5°	32.3	20.6	10.3	0.0
80°	42.6	27.9	13.2	0.0
77.5°	54.3	35.2	17.6	0.0
75°	64.6	41.1	20.6	0.0
72.5°	74.9	48.4	23.5	0.0
70°	83.7	54.3	26.4	0.0
67.5°	92.5	61.7	30.8	0.0
65°	99.8	67.5	33.8	0.0
62.5°	105.7	74.9	36.7	0.0
60°	113.0	80.7	39.6	0.0
57.5°	118.9	85.1	42.6	0.0
55°	124.8	88.1	45.5	0.0
52.5°	130.6	92.5	48.4	0.0
50°	136.5	96.9	51.4	0.0
47.5°	142.4	99.8	52.8	0.0
45°	151.2	104.2	55.8	0.0
42.5°	158.5	107.2	58.7	0.0
40°	165.9	110.1	60.2	0.0
37.5°	173.2	113.0	63.1	0.0
35°	180.6	116.0	64.6	0.0
32.5°	186.4	118.9	66.1	0.0
30°	192.3	121.8	67.5	0.0
27.5°	198.2	123.3	69.0	0.0
25°	202.6	126.2	70.5	0.0
22.5°	207.0	127.7	71.9	0.0
20°	209.9	129.2	73.4	0.0
17.5°	214.3	130.6	74.9	0.0
15°	215.8	132.1	77.8	0.0
12.5°	218.7	133.6	77.8	0.0
10°	220.2	135.1	77.8	0.0
7.5°	223.1	135.1	77.8	0.0
5°	221.7	135.1	77.8	0.0
2.5°	221.7	135.1	77.8	0.0
0°	220.2	135.1	77.8	0.0

(END OF REPORT)