

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: P628446

Luminaire Tested: **IFLD-S-SA3B-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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:	11207.8 lumens	Max Intensity:	3653.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	91.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

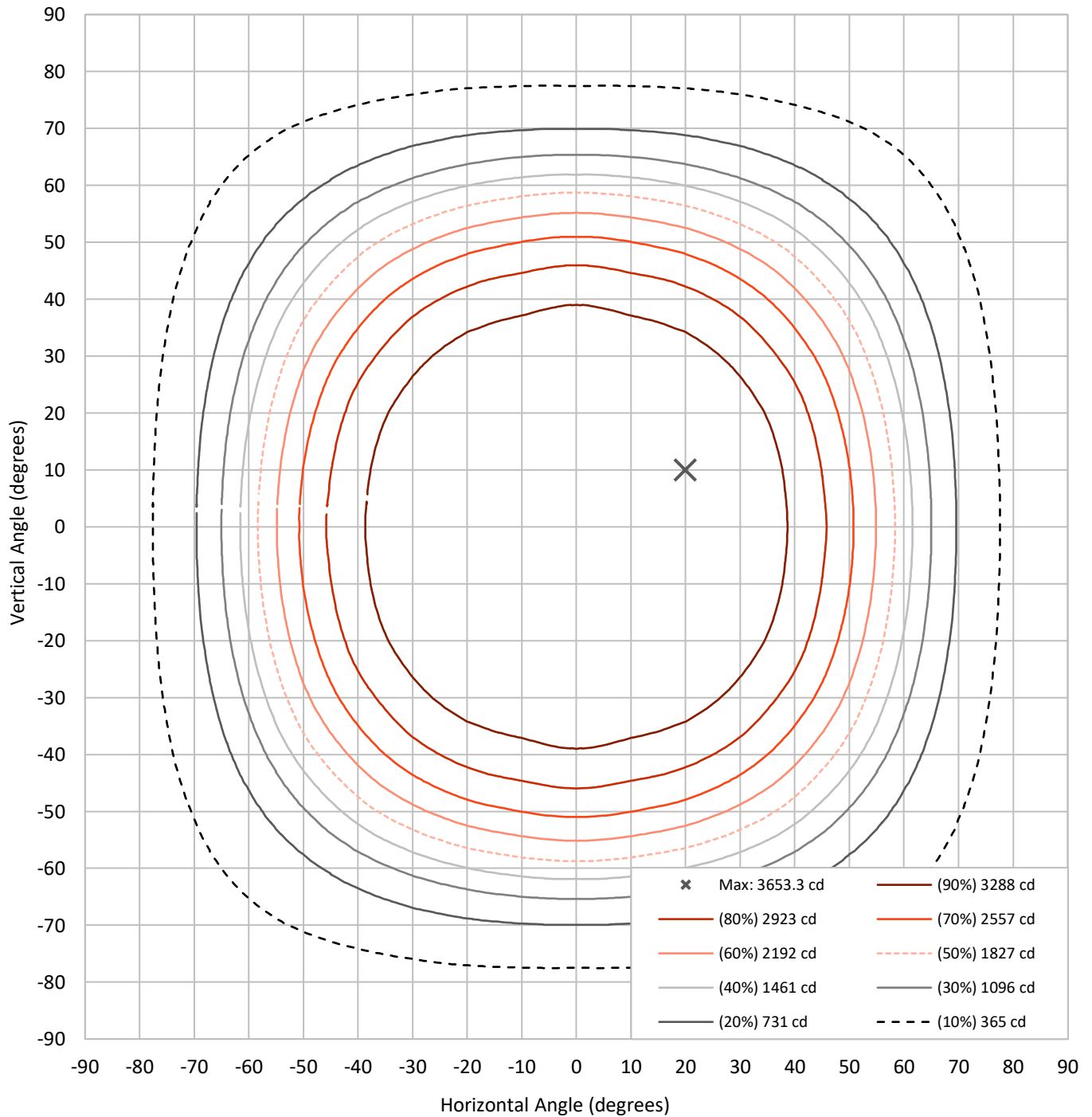
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6877.4 lumens	Field Lumens:	8244.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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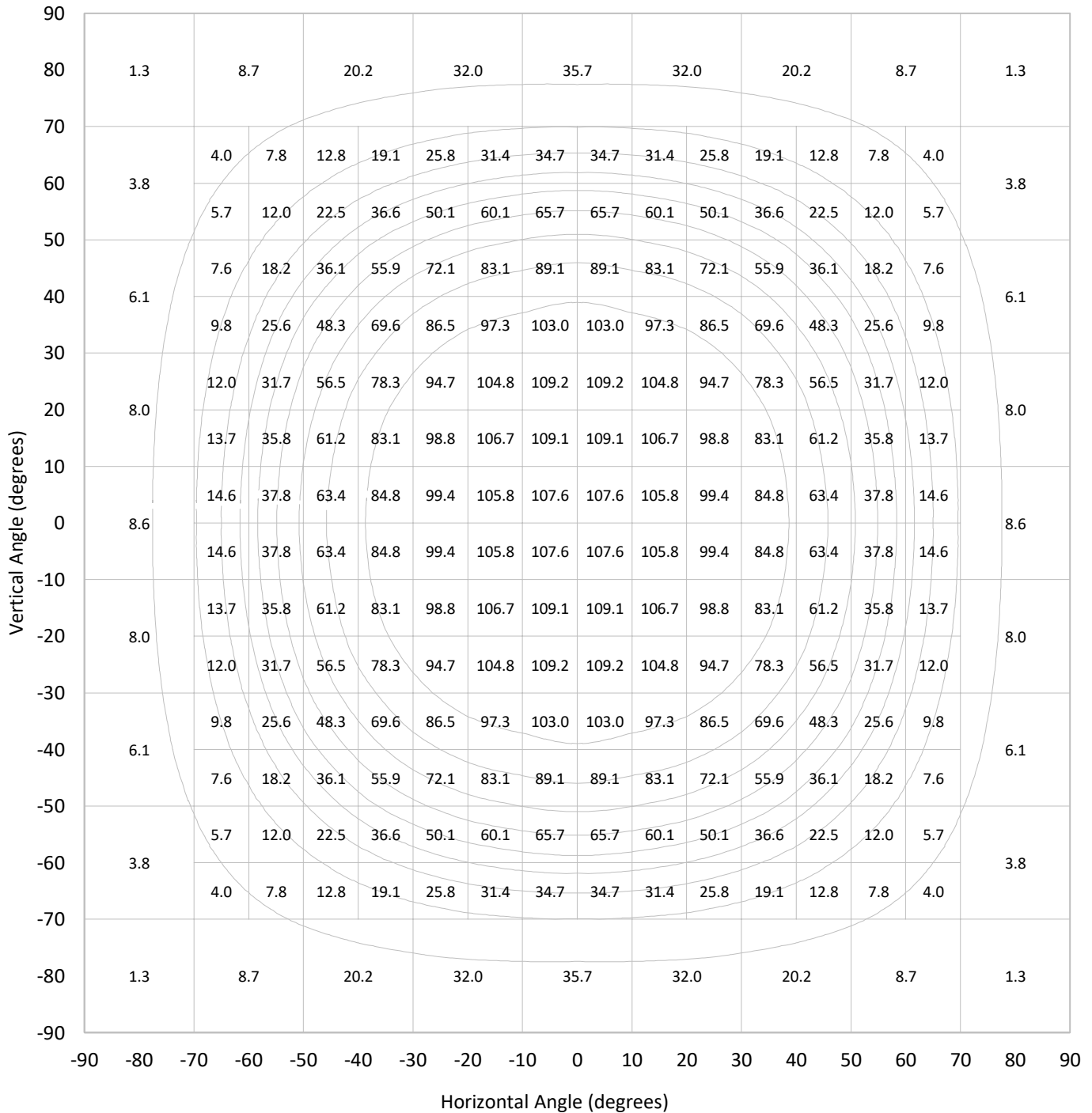
Iso-Candela Plot





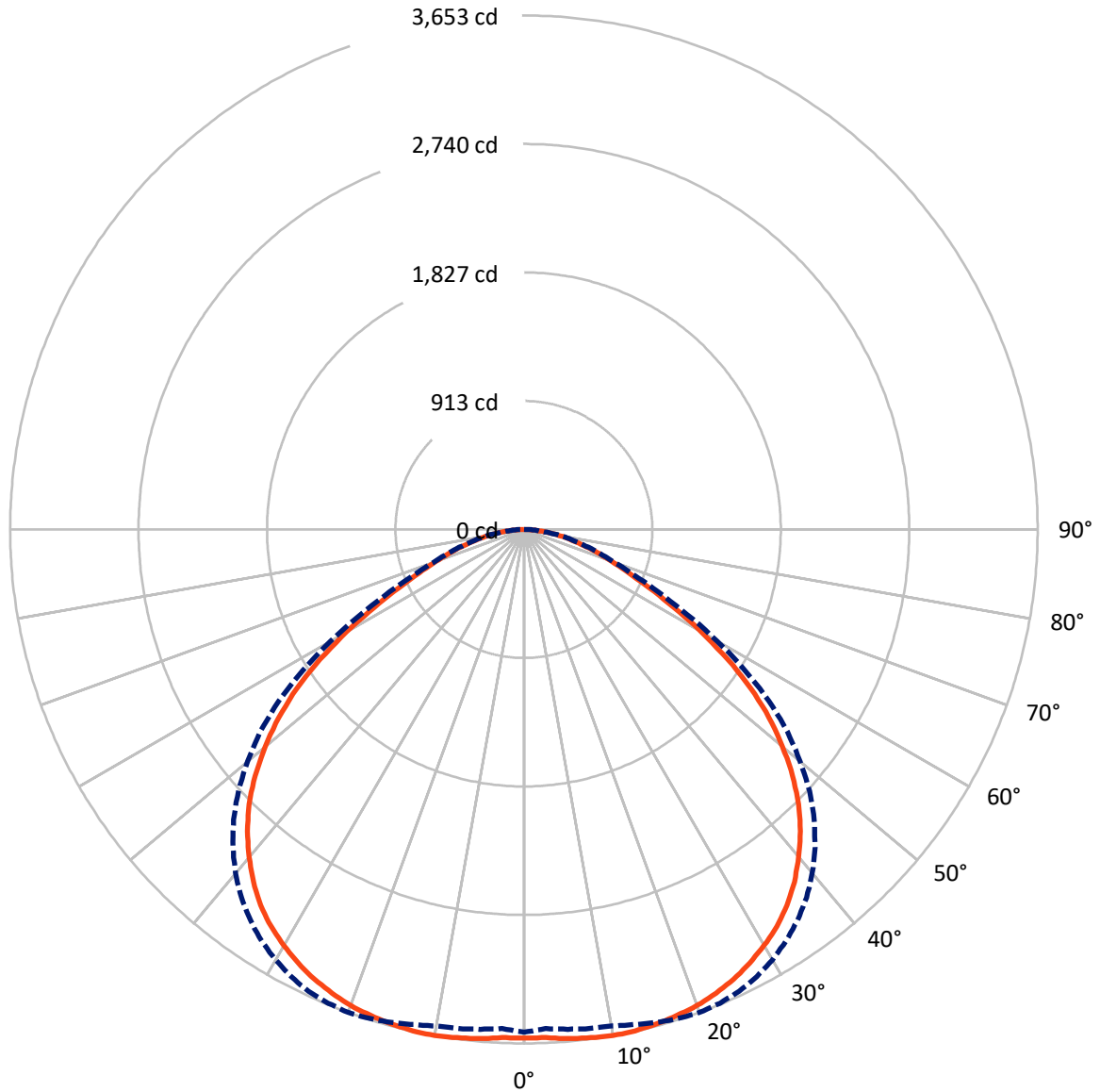
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Lumen Table



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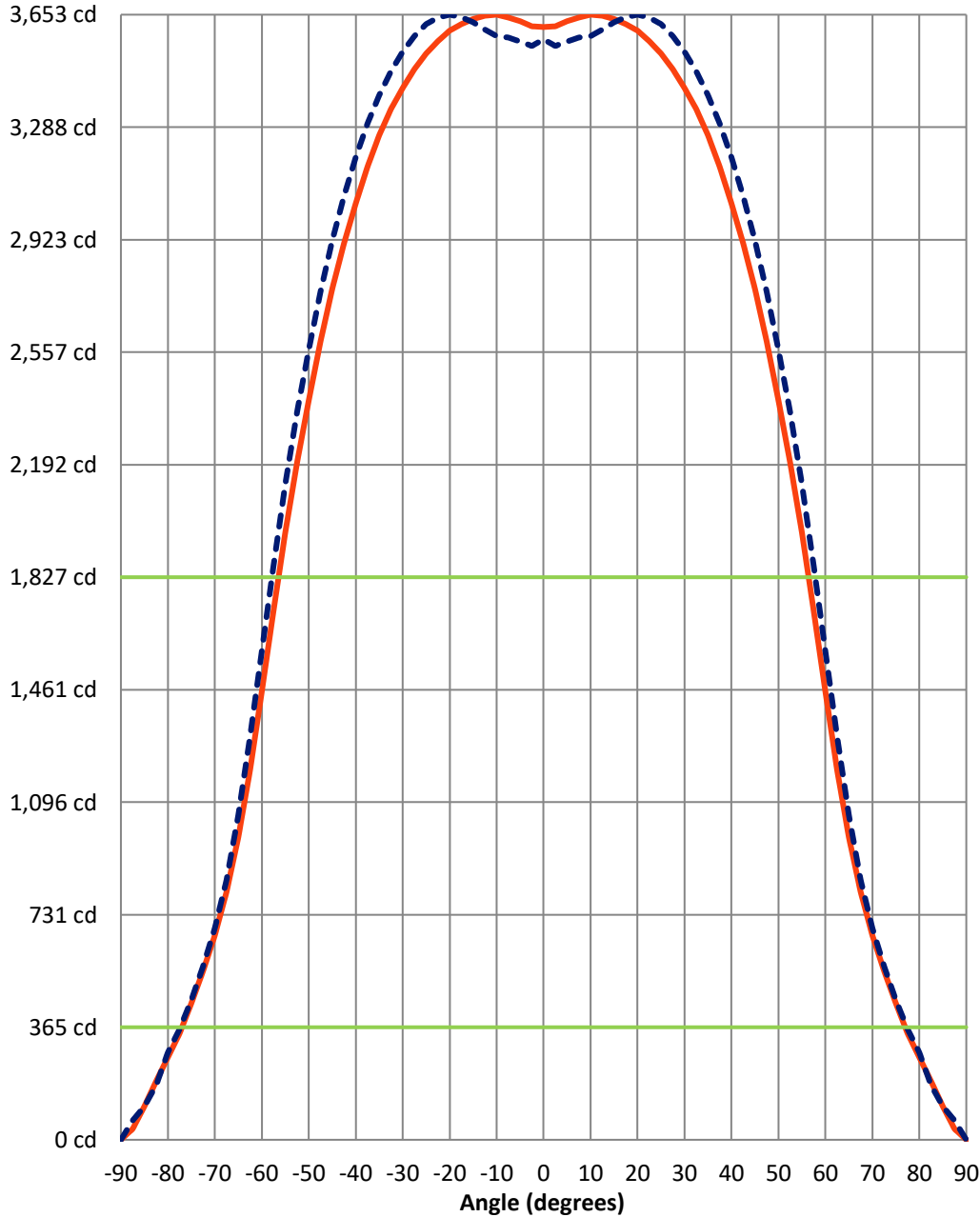
Luminous Intensity Polar Plot



— 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: 6877.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8244.8
 Efficiency: 73.6%

Spill:
 Lumens: 2963.1
 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°	29.5	31.8	33.0	34.2	35.4	36.6	37.7	36.6	35.4	34.2	34.2
85°	79.0	81.4	82.5	90.8	99.1	103.8	109.7	108.5	107.3	106.1	106.1
82.5°	158.0	165.1	171.0	179.2	184.0	191.0	195.8	192.2	185.1	181.6	181.6
80°	280.7	283.0	284.2	285.4	279.5	278.3	275.9	272.4	261.8	255.9	255.9
77.5°	357.3	359.7	362.0	359.7	358.5	357.3	353.8	350.2	340.8	333.7	333.7
75°	472.9	472.9	472.9	469.3	467.0	463.4	457.5	451.7	434.0	423.3	423.3
72.5°	595.5	594.3	593.2	586.1	580.2	573.1	564.9	557.8	537.7	523.6	523.6
70°	724.1	726.4	727.6	718.2	711.1	701.7	691.0	678.1	648.6	628.5	628.5
67.5°	900.9	898.6	896.2	883.3	873.8	860.8	845.5	826.7	781.8	753.5	753.5
65°	1120.3	1123.8	1116.7	1103.8	1086.1	1064.9	1041.3	1014.2	946.9	906.8	906.8
62.5°	1385.6	1391.5	1383.3	1366.7	1344.3	1316.0	1283.0	1244.1	1150.9	1101.4	1101.4
60°	1687.5	1686.3	1671.0	1648.6	1619.1	1583.7	1547.2	1504.7	1397.4	1337.3	1337.3
57.5°	1964.6	1962.3	1943.4	1921.0	1891.5	1853.8	1814.9	1770.0	1656.8	1587.3	1587.3
55°	2213.4	2211.1	2192.2	2168.6	2138.0	2100.2	2064.9	2022.4	1906.8	1832.5	1832.5
52.5°	2434.0	2435.1	2418.6	2392.7	2359.7	2323.1	2288.9	2246.5	2133.3	2061.3	2061.3
50°	2636.8	2635.6	2617.9	2594.3	2563.7	2528.3	2494.1	2451.7	2338.4	2268.9	2268.9
47.5°	2825.5	2823.1	2803.1	2777.1	2745.3	2714.6	2682.8	2645.0	2529.5	2459.9	2459.9
45°	2983.5	2978.8	2958.7	2934.0	2903.3	2876.2	2847.9	2819.6	2705.2	2639.2	2639.2
42.5°	3119.1	3117.9	3097.9	3073.1	3042.5	3018.9	2992.9	2957.5	2857.3	2792.5	2792.5
40°	3248.8	3239.4	3219.3	3195.8	3167.5	3147.4	3121.5	3086.1	2988.2	2925.7	2925.7
37.5°	3345.5	3346.7	3325.5	3299.5	3274.8	3255.9	3232.3	3199.3	3108.5	3046.0	3046.0
35°	3437.5	3431.6	3413.9	3391.5	3369.1	3347.9	3323.1	3294.8	3214.6	3155.7	3155.7
32.5°	3497.6	3505.9	3484.7	3461.1	3448.1	3431.6	3405.7	3376.2	3299.5	3246.5	3246.5
30°	3563.7	3556.6	3540.1	3520.0	3510.6	3500.0	3477.6	3449.3	3372.6	3323.1	3323.1
27.5°	3609.7	3606.1	3586.1	3567.2	3562.5	3553.1	3535.4	3510.6	3435.1	3389.2	3389.2
25°	3629.7	3632.1	3613.2	3602.6	3602.6	3596.7	3582.5	3561.3	3489.4	3444.6	3444.6
22.5°	3639.2	3636.8	3623.8	3621.5	3627.4	3622.6	3616.7	3597.9	3536.6	3498.8	3498.8
20°	3645.0	3628.5	3616.7	3626.2	3633.3	3632.1	3627.4	3615.6	3575.5	3542.5	3542.5
17.5°	3632.1	3621.5	3607.3	3621.5	3636.8	3638.0	3633.3	3626.2	3606.1	3576.7	3576.7
15°	3600.2	3592.0	3594.3	3608.5	3626.2	3632.1	3635.6	3643.9	3626.2	3600.2	3600.2
12.5°	3579.0	3568.4	3579.0	3593.2	3602.6	3606.1	3634.4	3649.8	3638.0	3621.5	3621.5
10°	3573.1	3551.9	3566.0	3579.0	3583.7	3605.0	3628.5	3645.0	3643.9	3622.6	3622.6
7.5°	3561.3	3547.2	3553.1	3559.0	3586.1	3601.4	3614.4	3632.1	3642.7	3623.8	3623.8
5°	3555.4	3537.7	3540.1	3564.9	3583.7	3594.3	3599.1	3614.4	3635.6	3621.5	3621.5
2.5°	3540.1	3531.8	3549.5	3551.9	3566.0	3574.3	3579.0	3593.2	3623.8	3617.9	3617.9
0°	3531.8	3520.0	3508.3	3517.7	3541.3	3559.0	3566.0	3587.3	3621.5	3608.5	3608.5



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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°	33.0	31.8	30.7	29.5	30.7	30.7	30.7	29.5	30.7	29.5	29.5
85°	102.6	97.9	94.3	89.6	84.9	81.4	76.7	71.9	70.8	69.6	67.2
82.5°	176.9	171.0	165.1	158.0	150.9	142.7	134.4	125.0	122.6	120.3	116.7
80°	248.8	240.6	232.3	224.1	217.0	208.7	199.3	188.7	181.6	175.7	168.6
77.5°	324.3	312.5	300.7	286.6	278.3	270.0	260.6	250.0	239.4	230.0	219.3
75°	410.4	397.4	385.6	371.5	356.1	340.8	325.5	311.3	296.0	281.8	267.7
72.5°	505.9	487.0	468.2	450.5	431.6	412.7	392.7	373.8	355.0	336.1	316.0
70°	606.1	582.5	559.0	535.4	510.6	485.8	462.3	438.7	415.1	390.3	367.9
67.5°	724.1	696.9	666.3	633.3	596.7	564.9	534.2	505.9	477.6	449.3	421.0
65°	871.5	833.7	792.5	747.6	705.2	662.7	617.9	575.5	542.5	509.4	477.6
62.5°	1053.1	1000.0	942.2	884.4	832.5	777.1	725.2	669.8	617.9	570.8	531.8
60°	1270.0	1198.1	1127.4	1053.1	981.1	905.7	839.6	771.2	706.4	648.6	592.0
57.5°	1509.4	1425.7	1340.8	1250.0	1152.1	1063.7	974.1	884.4	807.8	731.1	667.5
55°	1752.4	1663.9	1568.4	1465.8	1358.5	1245.3	1123.8	1023.6	918.6	829.0	746.5
52.5°	1983.5	1891.5	1792.5	1698.1	1569.6	1439.9	1306.6	1174.5	1051.9	937.5	837.3
50°	2189.9	2100.2	2004.7	1895.0	1775.9	1638.0	1489.4	1340.8	1195.8	1061.3	936.3
47.5°	2378.5	2291.3	2195.8	2086.1	1977.6	1824.3	1674.5	1510.6	1349.1	1194.6	1048.3
45°	2555.4	2467.0	2367.9	2263.0	2138.0	2001.2	1846.7	1681.6	1508.3	1334.9	1166.3
42.5°	2715.8	2627.4	2527.1	2418.6	2294.8	2159.2	2009.4	1843.2	1668.6	1480.0	1294.8
40°	2856.1	2770.0	2673.3	2560.1	2444.6	2301.9	2154.5	1996.5	1816.0	1626.2	1422.2
37.5°	2978.8	2898.6	2803.1	2691.0	2568.4	2441.0	2288.9	2130.9	1968.2	1761.8	1553.1
35°	3087.3	3013.0	2915.1	2809.0	2688.7	2554.2	2411.6	2257.1	2081.4	1888.0	1685.1
32.5°	3181.6	3106.1	3016.5	2910.4	2793.6	2667.5	2521.2	2365.6	2199.3	2002.4	1781.8
30°	3261.8	3188.7	3103.8	3003.5	2891.5	2766.5	2623.8	2467.0	2297.2	2101.4	1883.3
27.5°	3331.4	3261.8	3179.2	3086.1	2978.8	2858.5	2714.6	2556.6	2383.3	2194.6	1976.4
25°	3391.5	3324.3	3247.6	3159.2	3053.1	2935.1	2799.5	2634.4	2461.1	2271.2	2055.4
22.5°	3445.8	3380.9	3304.2	3218.2	3121.5	3003.5	2866.7	2702.8	2527.1	2339.6	2127.4
20°	3494.1	3434.0	3358.5	3270.0	3173.3	3054.2	2918.6	2763.0	2586.1	2402.1	2192.2
17.5°	3533.0	3480.0	3404.5	3311.3	3214.6	3099.1	2967.0	2824.3	2636.8	2455.2	2246.5
15°	3560.1	3508.3	3439.9	3345.5	3251.2	3136.8	3004.7	2857.3	2682.8	2497.6	2291.3
12.5°	3579.0	3523.6	3459.9	3372.6	3278.3	3165.1	3036.6	2891.5	2721.7	2535.4	2330.2
10°	3583.7	3533.0	3469.3	3391.5	3299.5	3189.9	3063.7	2919.8	2753.5	2564.9	2362.0
7.5°	3586.1	3537.7	3480.0	3405.7	3314.9	3208.7	3083.7	2942.2	2777.1	2589.6	2385.6
5°	3584.9	3538.9	3487.0	3415.1	3324.3	3219.3	3096.7	2957.5	2793.6	2606.1	2403.3
2.5°	3581.4	3540.1	3491.7	3422.2	3334.9	3231.1	3109.7	2975.2	2811.3	2620.3	2417.5
0°	3590.8	3555.4	3494.1	3419.8	3337.3	3231.1	3108.5	2977.6	2813.7	2619.1	2416.3



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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°	29.5	28.3	28.3	27.1	25.9	24.8	22.4	21.2	18.9	15.3	11.8
85°	63.7	60.1	56.6	54.2	51.9	49.5	46.0	42.5	37.7	30.7	23.6
82.5°	112.0	105.0	97.9	89.6	82.5	75.5	69.6	63.7	56.6	46.0	35.4
80°	160.4	149.8	139.2	127.4	116.7	105.0	94.3	84.9	75.5	61.3	47.2
77.5°	208.7	194.6	179.2	165.1	149.8	134.4	119.1	106.1	92.0	75.5	59.0
75°	253.5	237.0	222.9	202.8	184.0	163.9	143.9	126.2	108.5	88.4	70.8
72.5°	298.3	277.1	257.1	238.2	217.0	192.2	169.8	147.4	125.0	101.4	80.2
70°	343.2	317.2	292.5	270.0	246.5	221.7	194.6	168.6	141.5	113.2	88.4
67.5°	389.2	359.7	331.4	303.1	275.9	247.6	219.3	189.9	158.0	125.0	97.9
65°	439.9	403.3	369.1	337.3	305.4	274.8	242.9	211.1	175.7	138.0	106.1
62.5°	490.6	450.5	410.4	370.3	334.9	300.7	266.5	231.1	192.2	152.1	114.4
60°	544.8	498.8	452.8	408.0	364.4	326.7	288.9	251.2	209.9	165.1	122.6
57.5°	605.0	549.5	497.6	446.9	397.4	352.6	311.3	271.2	225.2	178.1	132.1
55°	673.3	605.0	543.6	487.0	432.8	378.5	333.7	292.5	242.9	191.0	142.7
52.5°	745.3	666.3	592.0	528.3	470.5	409.2	355.0	309.0	260.6	204.0	152.1
50°	829.0	728.8	646.2	568.4	503.5	439.9	377.4	327.8	278.3	219.3	161.6
47.5°	915.1	804.2	700.5	615.6	538.9	469.3	403.3	344.3	294.8	233.5	171.0
45°	1015.3	876.2	761.8	661.6	573.1	500.0	429.2	362.0	309.0	247.6	180.4
42.5°	1112.0	961.1	825.5	712.3	612.0	529.5	452.8	380.9	323.1	261.8	188.7
40°	1226.4	1046.0	886.8	760.6	650.9	557.8	476.4	400.9	336.1	274.8	196.9
37.5°	1336.1	1132.1	961.1	813.7	688.7	586.1	500.0	419.8	347.9	287.7	207.5
35°	1444.6	1227.6	1031.8	863.2	727.6	617.9	523.6	437.5	359.7	298.3	217.0
32.5°	1548.3	1317.2	1103.8	918.6	770.0	647.4	544.8	454.0	371.5	307.8	226.4
30°	1645.0	1402.1	1174.5	975.2	809.0	674.5	564.9	470.5	385.6	316.0	235.8
27.5°	1733.5	1484.7	1245.3	1028.3	845.5	699.3	586.1	485.8	397.4	324.3	244.1
25°	1813.7	1559.0	1310.1	1076.7	878.5	726.4	606.1	501.2	408.0	331.4	251.2
22.5°	1889.2	1627.4	1369.1	1125.0	918.6	753.5	625.0	515.3	418.6	338.4	258.3
20°	1955.2	1689.9	1425.7	1173.3	954.0	778.3	641.5	528.3	428.1	343.2	265.3
17.5°	2008.3	1745.3	1476.4	1215.8	984.7	799.5	655.7	540.1	436.3	349.1	270.0
15°	2055.4	1792.5	1518.9	1252.4	1011.8	817.2	668.6	549.5	443.4	352.6	275.9
12.5°	2095.5	1832.5	1555.4	1284.2	1035.4	832.5	679.2	556.6	449.3	356.1	279.5
10°	2128.5	1864.4	1586.1	1309.0	1054.2	844.3	687.5	563.7	454.0	359.7	283.0
7.5°	2153.3	1888.0	1608.5	1330.2	1069.6	852.6	694.6	568.4	458.7	362.0	288.9
5°	2172.2	1908.0	1626.2	1344.3	1081.4	864.4	702.8	574.3	463.4	364.4	288.9
2.5°	2186.3	1924.5	1640.3	1356.1	1090.8	862.0	702.8	573.1	463.4	364.4	287.7
0°	2184.0	1925.7	1639.2	1356.1	1090.8	859.7	702.8	571.9	463.4	364.4	287.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.3	5.9	2.4	0.0
85°	17.7	11.8	5.9	0.0
82.5°	25.9	16.5	8.3	0.0
80°	34.2	22.4	10.6	0.0
77.5°	43.6	28.3	14.2	0.0
75°	51.9	33.0	16.5	0.0
72.5°	60.1	38.9	18.9	0.0
70°	67.2	43.6	21.2	0.0
67.5°	74.3	49.5	24.8	0.0
65°	80.2	54.2	27.1	0.0
62.5°	84.9	60.1	29.5	0.0
60°	90.8	64.9	31.8	0.0
57.5°	95.5	68.4	34.2	0.0
55°	100.2	70.8	36.6	0.0
52.5°	105.0	74.3	38.9	0.0
50°	109.7	77.8	41.3	0.0
47.5°	114.4	80.2	42.5	0.0
45°	121.5	83.7	44.8	0.0
42.5°	127.4	86.1	47.2	0.0
40°	133.3	88.4	48.3	0.0
37.5°	139.2	90.8	50.7	0.0
35°	145.0	93.2	51.9	0.0
32.5°	149.8	95.5	53.1	0.0
30°	154.5	97.9	54.2	0.0
27.5°	159.2	99.1	55.4	0.0
25°	162.7	101.4	56.6	0.0
22.5°	166.3	102.6	57.8	0.0
20°	168.6	103.8	59.0	0.0
17.5°	172.2	105.0	60.1	0.0
15°	173.3	106.1	62.5	0.0
12.5°	175.7	107.3	62.5	0.0
10°	176.9	108.5	62.5	0.0
7.5°	179.2	108.5	62.5	0.0
5°	178.1	108.5	62.5	0.0
2.5°	178.1	108.5	62.5	0.0
0°	176.9	108.5	62.5	0.0

(END OF REPORT)