

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: P628238

Luminaire Tested: **IFLD-S-SA2B-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628238
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11589.9 lumens	Max Intensity:	3777.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	140.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

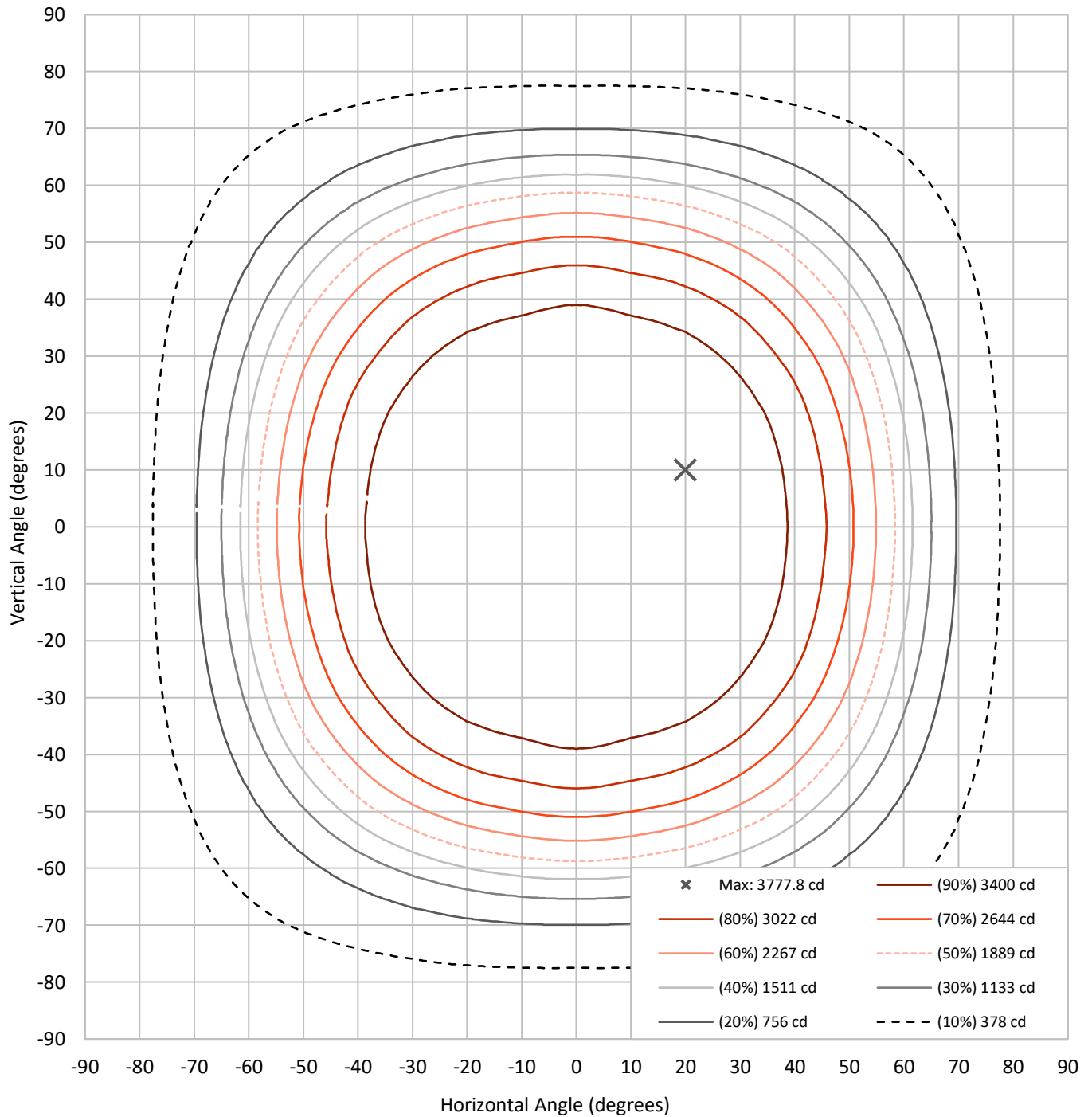
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7111.8 lumens	Field Lumens:	8525.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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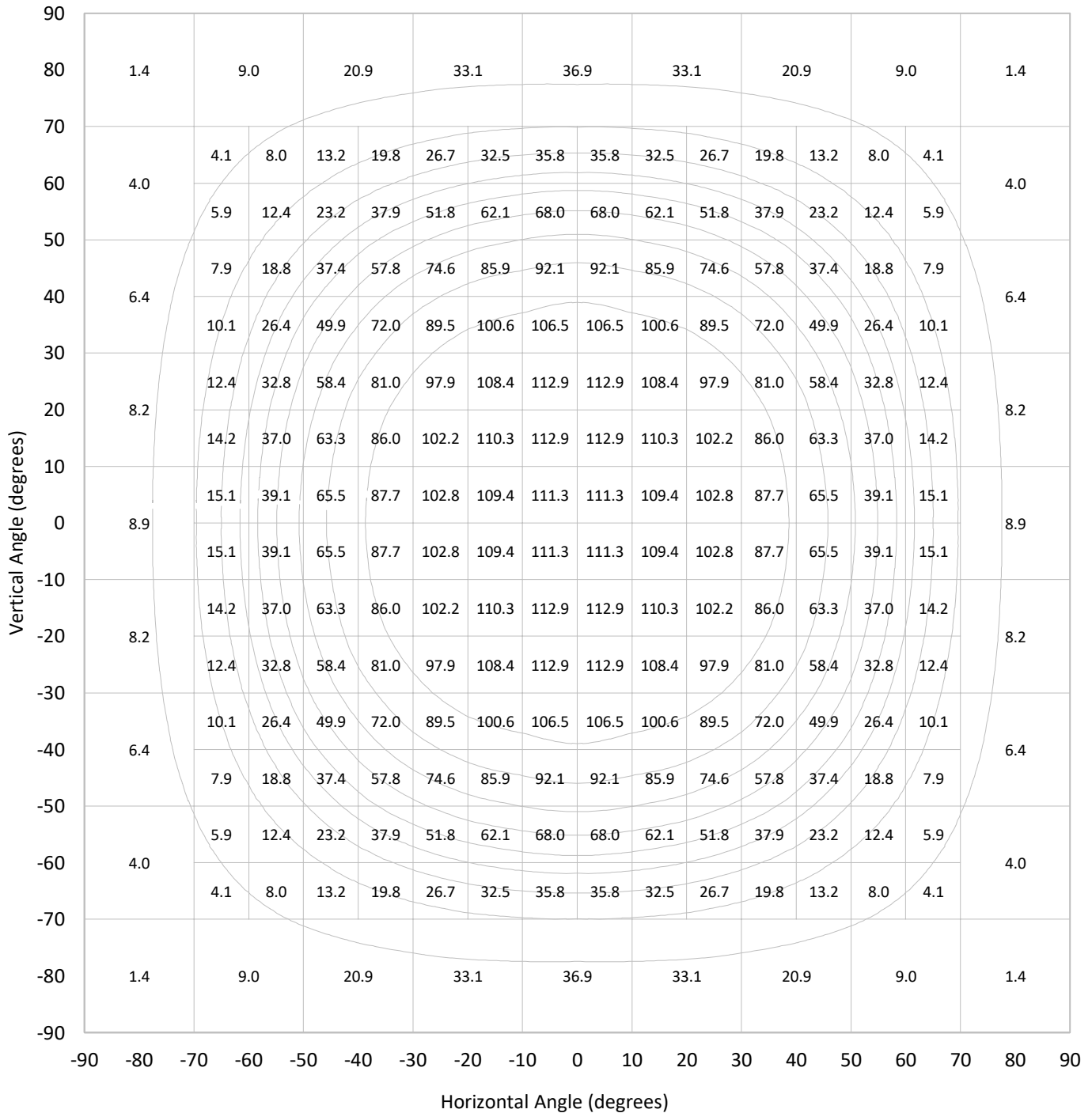
Iso-Candela Plot





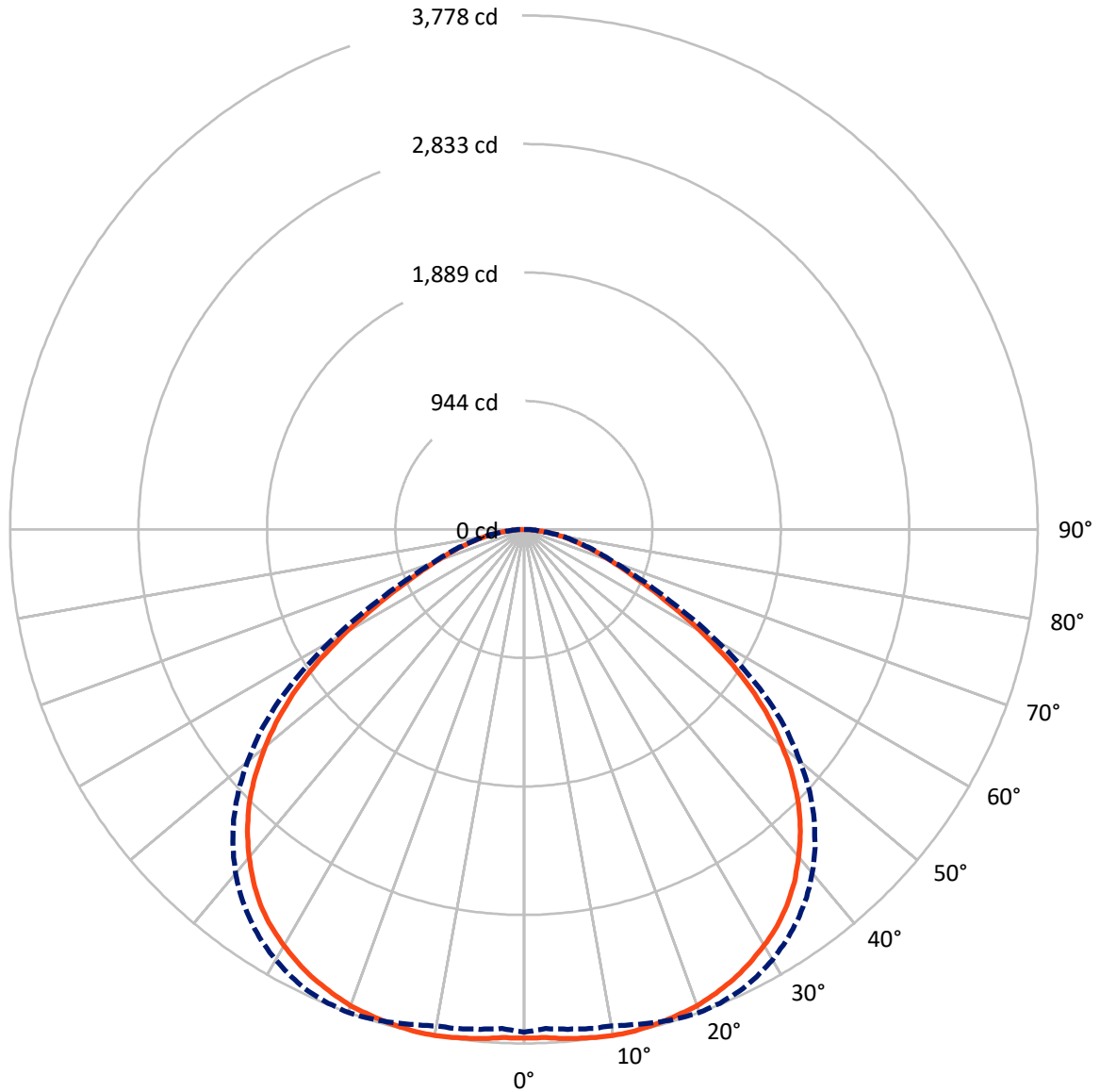
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Lumen Table



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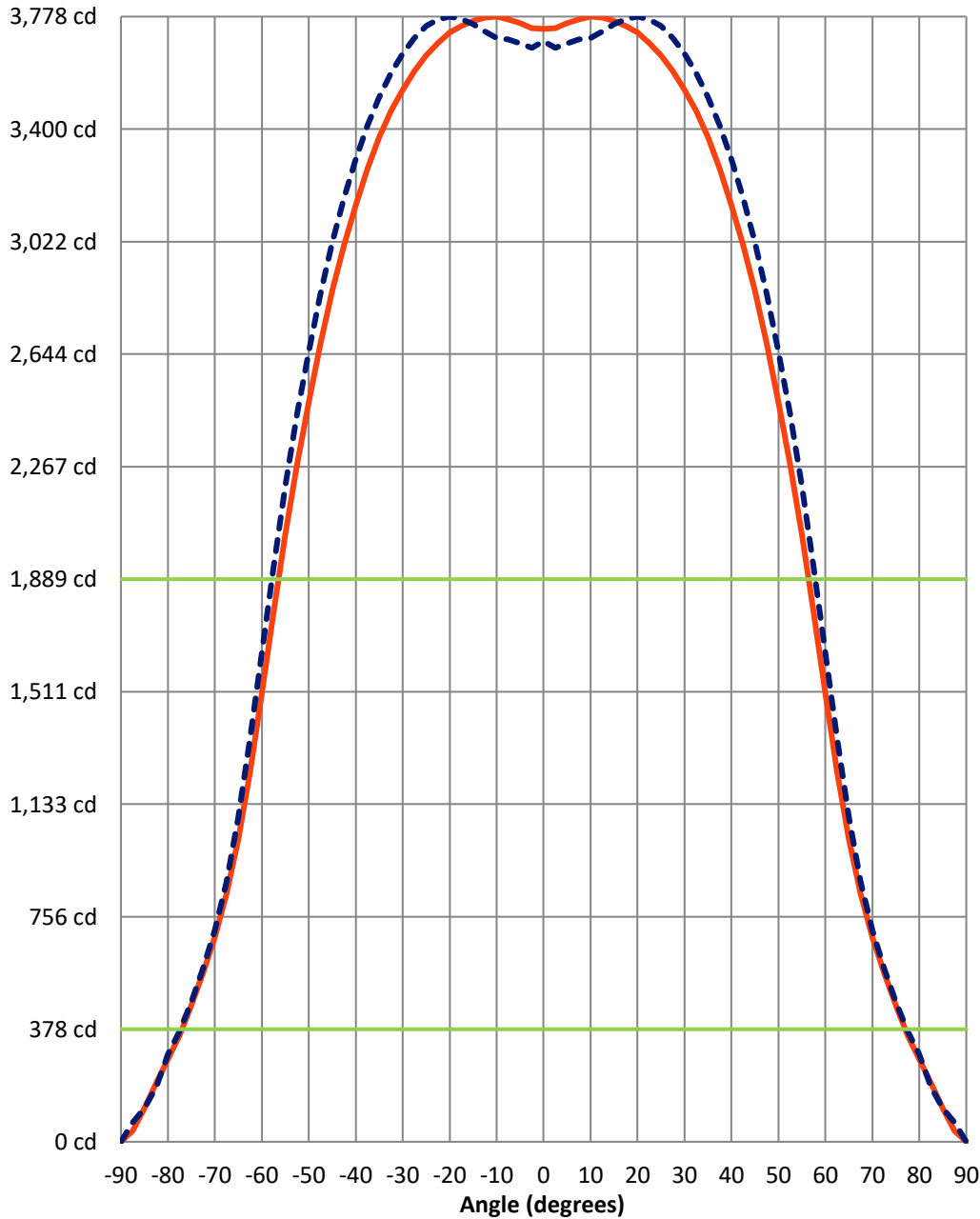
Luminous Intensity Polar Plot



— 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: 7111.8
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 8525.8
Efficiency: 73.6%

Spill:
Lumens: 3064
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°	30.5	32.9	34.1	35.4	36.6	37.8	39.0	37.8	36.6	36.6	35.4
85°	81.7	84.1	85.4	93.9	102.4	107.3	113.4	112.2	112.2	111.0	109.7
82.5°	163.4	170.7	176.8	185.4	190.2	197.5	202.4	198.8	196.3	191.5	187.8
80°	290.2	292.7	293.9	295.1	289.0	287.8	285.3	281.7	276.8	270.7	264.6
77.5°	369.5	371.9	374.4	371.9	370.7	369.5	365.8	362.2	357.3	352.4	345.1
75°	489.0	489.0	489.0	485.3	482.9	479.2	473.1	467.0	458.5	448.8	437.8
72.5°	615.8	614.6	613.4	606.1	600.0	592.6	584.1	576.8	567.0	556.1	541.4
70°	748.7	751.2	752.4	742.6	735.3	725.6	714.6	701.2	686.5	670.7	650.0
67.5°	931.7	929.2	926.8	913.4	903.6	890.2	874.3	854.8	832.9	808.5	779.2
65°	1158.5	1162.1	1154.8	1141.4	1123.1	1101.2	1076.8	1048.7	1015.8	979.2	937.7
62.5°	1432.8	1438.9	1430.4	1413.3	1390.2	1360.9	1326.8	1286.5	1241.4	1190.2	1139.0
60°	1745.0	1743.8	1727.9	1704.8	1674.3	1637.7	1599.9	1556.0	1504.8	1445.0	1382.8
57.5°	2031.6	2029.1	2009.6	1986.5	1956.0	1917.0	1876.7	1830.4	1776.7	1713.3	1641.4
55°	2288.9	2286.4	2266.9	2242.6	2210.8	2171.8	2135.2	2091.3	2038.9	1971.8	1895.0
52.5°	2516.9	2518.1	2501.1	2474.2	2440.1	2402.3	2366.9	2323.0	2273.0	2206.0	2131.6
50°	2726.7	2725.4	2707.2	2682.8	2651.1	2614.5	2579.1	2535.2	2482.8	2418.1	2346.2
47.5°	2921.8	2919.3	2898.6	2871.8	2838.9	2807.2	2774.2	2735.2	2680.3	2615.7	2543.8
45°	3085.2	3080.3	3059.6	3034.0	3002.3	2974.2	2944.9	2915.7	2857.1	2797.4	2729.1
42.5°	3225.4	3224.2	3203.5	3177.9	3146.2	3121.8	3094.9	3058.4	3009.6	2954.7	2887.6
40°	3359.6	3349.8	3329.1	3304.7	3275.4	3254.7	3227.9	3191.3	3143.7	3090.1	3025.4
37.5°	3459.6	3460.8	3438.8	3412.0	3386.4	3366.9	3342.5	3308.3	3266.9	3214.4	3149.8
35°	3554.7	3548.6	3530.3	3507.1	3483.9	3462.0	3436.4	3407.1	3373.0	3324.2	3263.2
32.5°	3616.9	3625.4	3603.4	3579.1	3565.6	3548.6	3521.7	3491.3	3460.8	3412.0	3357.1
30°	3685.1	3677.8	3660.8	3640.0	3630.3	3619.3	3596.1	3566.9	3531.5	3487.6	3436.4
27.5°	3732.7	3729.0	3708.3	3688.8	3683.9	3674.2	3655.9	3630.3	3594.9	3552.2	3504.7
25°	3753.4	3755.9	3736.4	3725.4	3725.4	3719.3	3704.7	3682.7	3647.3	3608.3	3562.0
22.5°	3763.2	3760.8	3747.3	3744.9	3751.0	3746.1	3740.0	3720.5	3688.8	3657.1	3618.1
20°	3769.3	3752.2	3740.0	3749.8	3757.1	3755.9	3751.0	3738.8	3724.2	3697.3	3663.2
17.5°	3755.9	3744.9	3730.3	3744.9	3760.8	3762.0	3757.1	3749.8	3746.1	3729.0	3698.6
15°	3723.0	3714.4	3716.9	3731.5	3749.8	3755.9	3759.5	3768.1	3763.2	3749.8	3723.0
12.5°	3701.0	3690.0	3701.0	3715.6	3725.4	3729.0	3758.3	3774.2	3774.2	3762.0	3744.9
10°	3694.9	3673.0	3687.6	3701.0	3705.9	3727.8	3752.2	3769.3	3777.8	3768.1	3746.1
7.5°	3682.7	3668.1	3674.2	3680.3	3708.3	3724.2	3737.6	3755.9	3768.1	3766.8	3747.3
5°	3676.6	3658.3	3660.8	3686.4	3705.9	3716.9	3721.7	3737.6	3755.9	3759.5	3744.9
2.5°	3660.8	3652.2	3670.5	3673.0	3687.6	3696.1	3701.0	3715.6	3738.8	3747.3	3741.2
0°	3652.2	3640.0	3627.8	3637.6	3662.0	3680.3	3687.6	3709.5	3736.4	3744.9	3731.5



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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°	34.1	32.9	31.7	30.5	31.7	31.7	31.7	30.5	31.7	30.5	30.5
85°	106.1	101.2	97.6	92.7	87.8	84.1	79.3	74.4	73.2	71.9	69.5
82.5°	182.9	176.8	170.7	163.4	156.1	147.6	139.0	129.3	126.8	124.4	120.7
80°	257.3	248.8	240.2	231.7	224.4	215.8	206.1	195.1	187.8	181.7	174.4
77.5°	335.3	323.2	311.0	296.3	287.8	279.3	269.5	258.5	247.5	237.8	226.8
75°	424.4	411.0	398.8	384.1	368.3	352.4	336.6	321.9	306.1	291.4	276.8
72.5°	523.1	503.6	484.1	465.8	446.3	426.8	406.1	386.6	367.1	347.5	326.8
70°	626.8	602.4	578.0	553.6	528.0	502.4	478.0	453.6	429.2	403.6	380.5
67.5°	748.7	720.7	689.0	654.8	617.0	584.1	552.4	523.1	493.9	464.6	435.3
65°	901.2	862.1	819.5	773.1	729.2	685.3	639.0	595.1	560.9	526.8	493.9
62.5°	1089.0	1034.1	974.3	914.6	860.9	803.6	750.0	692.6	639.0	590.2	550.0
60°	1313.3	1239.0	1165.8	1089.0	1014.6	936.5	868.2	797.5	730.4	670.7	612.2
57.5°	1560.9	1474.3	1386.5	1292.6	1191.4	1099.9	1007.3	914.6	835.3	756.1	690.2
55°	1812.1	1720.6	1621.9	1515.8	1404.8	1287.7	1162.1	1058.5	949.9	857.3	771.9
52.5°	2051.1	1956.0	1853.5	1756.0	1623.1	1488.9	1351.1	1214.6	1087.7	969.5	865.8
50°	2264.5	2171.8	2073.0	1959.6	1836.5	1693.8	1540.2	1386.5	1236.5	1097.5	968.2
47.5°	2459.6	2369.4	2270.6	2157.2	2045.0	1886.5	1731.6	1562.1	1395.0	1235.3	1084.1
45°	2642.5	2551.1	2448.6	2340.1	2210.8	2069.4	1909.6	1738.9	1559.7	1380.4	1206.0
42.5°	2808.4	2716.9	2613.3	2501.1	2373.0	2232.8	2077.9	1906.0	1725.5	1530.4	1338.9
40°	2953.5	2864.5	2764.5	2647.4	2527.9	2380.3	2227.9	2064.5	1877.9	1681.6	1470.6
37.5°	3080.3	2997.4	2898.6	2782.8	2655.9	2524.2	2366.9	2203.5	2035.2	1821.8	1606.0
35°	3192.5	3115.7	3014.5	2904.7	2780.3	2641.3	2493.8	2334.0	2152.3	1952.3	1742.6
32.5°	3290.0	3212.0	3119.3	3009.6	2888.9	2758.4	2607.2	2446.2	2274.3	2070.6	1842.6
30°	3373.0	3297.4	3209.6	3105.9	2990.1	2860.8	2713.3	2551.1	2375.5	2173.0	1947.4
27.5°	3444.9	3373.0	3287.6	3191.3	3080.3	2955.9	2807.2	2643.7	2464.5	2269.4	2043.8
25°	3507.1	3437.6	3358.3	3266.9	3157.1	3035.2	2895.0	2724.2	2545.0	2348.6	2125.5
22.5°	3563.2	3496.1	3416.9	3327.9	3227.9	3105.9	2964.5	2795.0	2613.3	2419.4	2199.9
20°	3613.2	3551.0	3473.0	3381.5	3281.5	3158.3	3018.1	2857.1	2674.2	2484.0	2266.9
17.5°	3653.4	3598.6	3520.5	3424.2	3324.2	3204.7	3068.1	2920.6	2726.7	2538.9	2323.0
15°	3681.5	3627.8	3557.1	3459.6	3362.0	3243.7	3107.1	2954.7	2774.2	2582.8	2369.4
12.5°	3701.0	3643.7	3577.8	3487.6	3390.0	3273.0	3140.1	2990.1	2814.5	2621.8	2409.6
10°	3705.9	3653.4	3587.6	3507.1	3412.0	3298.6	3168.1	3019.3	2847.4	2652.3	2442.5
7.5°	3708.3	3658.3	3598.6	3521.7	3427.8	3318.1	3188.8	3042.5	2871.8	2677.9	2466.9
5°	3707.1	3659.5	3605.9	3531.5	3437.6	3329.1	3202.2	3058.4	2888.9	2695.0	2485.2
2.5°	3703.4	3660.8	3610.8	3538.8	3448.6	3341.3	3215.7	3076.6	2907.1	2709.6	2499.9
0°	3713.2	3676.6	3613.2	3536.4	3451.0	3341.3	3214.4	3079.1	2909.6	2708.4	2498.6



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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°	30.5	29.3	29.3	28.0	26.8	25.6	23.2	21.9	19.5	15.9	12.2
85°	65.8	62.2	58.5	56.1	53.7	51.2	47.6	43.9	39.0	31.7	24.4
82.5°	115.8	108.5	101.2	92.7	85.4	78.0	71.9	65.8	58.5	47.6	36.6
80°	165.8	154.9	143.9	131.7	120.7	108.5	97.6	87.8	78.0	63.4	48.8
77.5°	215.8	201.2	185.4	170.7	154.9	139.0	123.2	109.7	95.1	78.0	61.0
75°	262.2	245.1	230.5	209.7	190.2	169.5	148.8	130.5	112.2	91.5	73.2
72.5°	308.5	286.6	265.8	246.3	224.4	198.8	175.6	152.4	129.3	104.9	82.9
70°	354.9	328.0	302.4	279.3	254.9	229.3	201.2	174.4	146.3	117.1	91.5
67.5°	402.4	371.9	342.7	313.4	285.3	256.1	226.8	196.3	163.4	129.3	101.2
65°	454.9	417.0	381.7	348.8	315.8	284.1	251.2	218.3	181.7	142.7	109.7
62.5°	507.3	465.8	424.4	382.9	346.3	311.0	275.6	239.0	198.8	157.3	118.3
60°	563.4	515.8	468.3	421.9	376.8	337.8	298.8	259.7	217.1	170.7	126.8
57.5°	625.6	568.3	514.6	462.2	411.0	364.6	321.9	280.5	232.9	184.1	136.6
55°	696.3	625.6	562.2	503.6	447.5	391.4	345.1	302.4	251.2	197.5	147.6
52.5°	770.7	689.0	612.2	546.3	486.6	423.1	367.1	319.5	269.5	211.0	157.3
50°	857.3	753.6	668.3	587.8	520.7	454.9	390.2	339.0	287.8	226.8	167.1
47.5°	946.3	831.7	724.3	636.5	557.3	485.3	417.0	356.1	304.9	241.4	176.8
45°	1049.9	906.0	787.8	684.1	592.6	517.0	443.9	374.4	319.5	256.1	186.6
42.5°	1149.9	993.8	853.6	736.5	632.9	547.5	468.3	393.9	334.1	270.7	195.1
40°	1268.2	1081.6	917.0	786.5	673.1	576.8	492.7	414.6	347.5	284.1	203.6
37.5°	1381.6	1170.7	993.8	841.4	712.2	606.1	517.0	434.1	359.7	297.5	214.6
35°	1493.8	1269.4	1067.0	892.6	752.4	639.0	541.4	452.4	371.9	308.5	224.4
32.5°	1601.1	1362.1	1141.4	949.9	796.3	669.5	563.4	469.5	384.1	318.3	234.1
30°	1701.1	1449.9	1214.6	1008.5	836.5	697.5	584.1	486.6	398.8	326.8	243.9
27.5°	1792.6	1535.3	1287.7	1063.4	874.3	723.1	606.1	502.4	411.0	335.3	252.4
25°	1875.5	1612.1	1354.8	1113.3	908.5	751.2	626.8	518.3	421.9	342.7	259.7
22.5°	1953.5	1682.8	1415.8	1163.3	949.9	779.2	646.3	532.9	432.9	350.0	267.1
20°	2021.8	1747.5	1474.3	1213.3	986.5	804.8	663.4	546.3	442.7	354.9	274.4
17.5°	2076.7	1804.8	1526.7	1257.2	1018.2	826.8	678.0	558.5	451.2	361.0	279.3
15°	2125.5	1853.5	1570.6	1295.0	1046.3	845.1	691.4	568.3	458.5	364.6	285.3
12.5°	2166.9	1895.0	1608.4	1328.0	1070.7	860.9	702.4	575.6	464.6	368.3	289.0
10°	2201.1	1927.9	1640.1	1353.6	1090.2	873.1	710.9	582.9	469.5	371.9	292.7
7.5°	2226.7	1952.3	1663.3	1375.5	1106.0	881.7	718.3	587.8	474.4	374.4	298.8
5°	2246.2	1973.1	1681.6	1390.2	1118.2	893.8	726.8	593.9	479.2	376.8	298.8
2.5°	2260.8	1990.1	1696.2	1402.4	1128.0	891.4	726.8	592.6	479.2	376.8	297.5
0°	2258.4	1991.3	1695.0	1402.4	1128.0	889.0	726.8	591.4	479.2	376.8	297.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.5	6.1	2.4	0.0
85°	18.3	12.2	6.1	0.0
82.5°	26.8	17.1	8.5	0.0
80°	35.4	23.2	11.0	0.0
77.5°	45.1	29.3	14.6	0.0
75°	53.7	34.1	17.1	0.0
72.5°	62.2	40.2	19.5	0.0
70°	69.5	45.1	21.9	0.0
67.5°	76.8	51.2	25.6	0.0
65°	82.9	56.1	28.0	0.0
62.5°	87.8	62.2	30.5	0.0
60°	93.9	67.1	32.9	0.0
57.5°	98.8	70.7	35.4	0.0
55°	103.7	73.2	37.8	0.0
52.5°	108.5	76.8	40.2	0.0
50°	113.4	80.5	42.7	0.0
47.5°	118.3	82.9	43.9	0.0
45°	125.6	86.6	46.3	0.0
42.5°	131.7	89.0	48.8	0.0
40°	137.8	91.5	50.0	0.0
37.5°	143.9	93.9	52.4	0.0
35°	150.0	96.3	53.7	0.0
32.5°	154.9	98.8	54.9	0.0
30°	159.7	101.2	56.1	0.0
27.5°	164.6	102.4	57.3	0.0
25°	168.3	104.9	58.5	0.0
22.5°	171.9	106.1	59.8	0.0
20°	174.4	107.3	61.0	0.0
17.5°	178.0	108.5	62.2	0.0
15°	179.3	109.7	64.6	0.0
12.5°	181.7	111.0	64.6	0.0
10°	182.9	112.2	64.6	0.0
7.5°	185.4	112.2	64.6	0.0
5°	184.1	112.2	64.6	0.0
2.5°	184.1	112.2	64.6	0.0
0°	182.9	112.2	64.6	0.0

(END OF REPORT)