

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: P628417

Luminaire Tested: **IFLD-S-SA3B-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628417
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

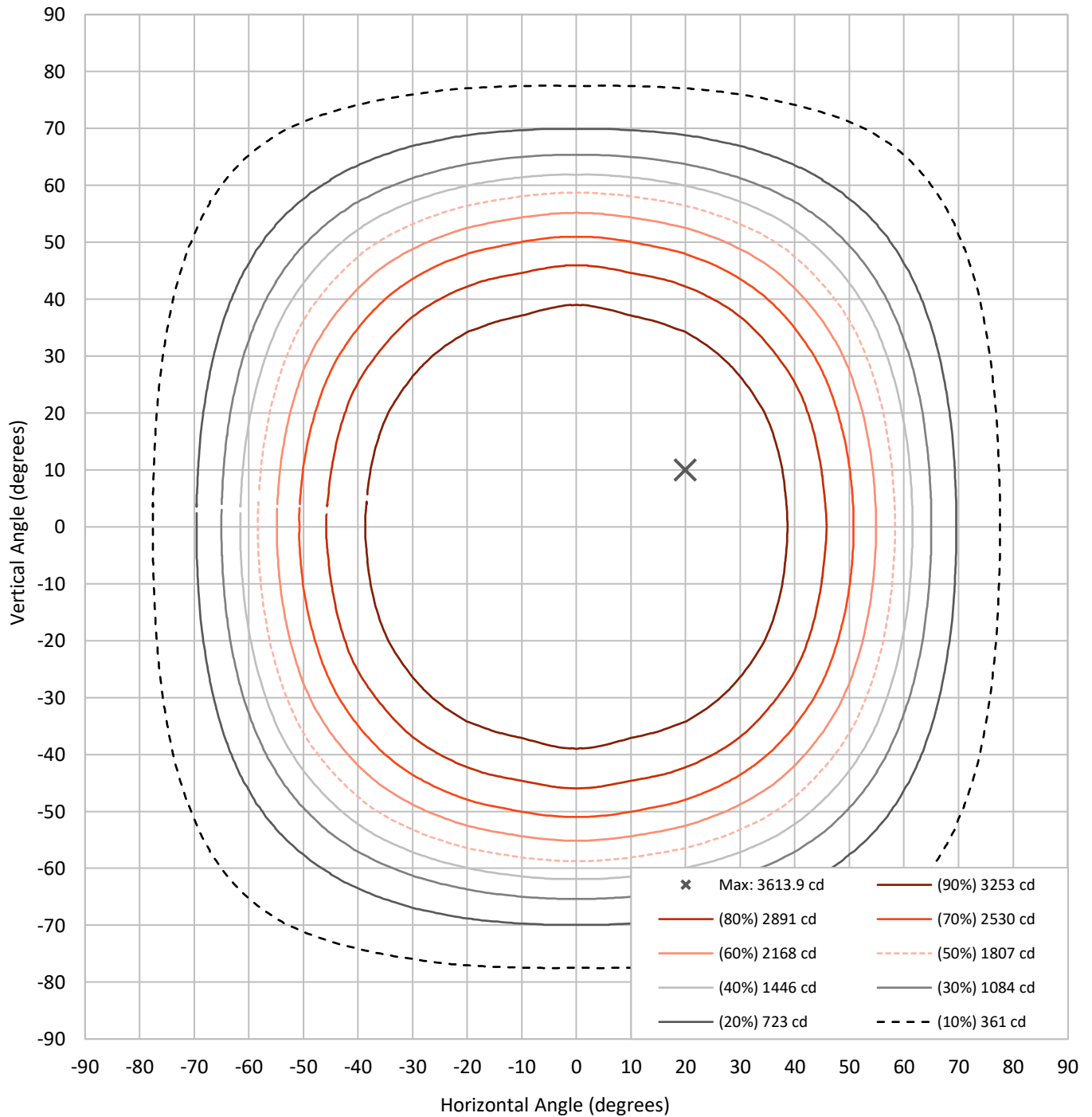
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11087 lumens	Max Intensity:	3613.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	90.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6803.2 lumens	Field Lumens:	8155.9 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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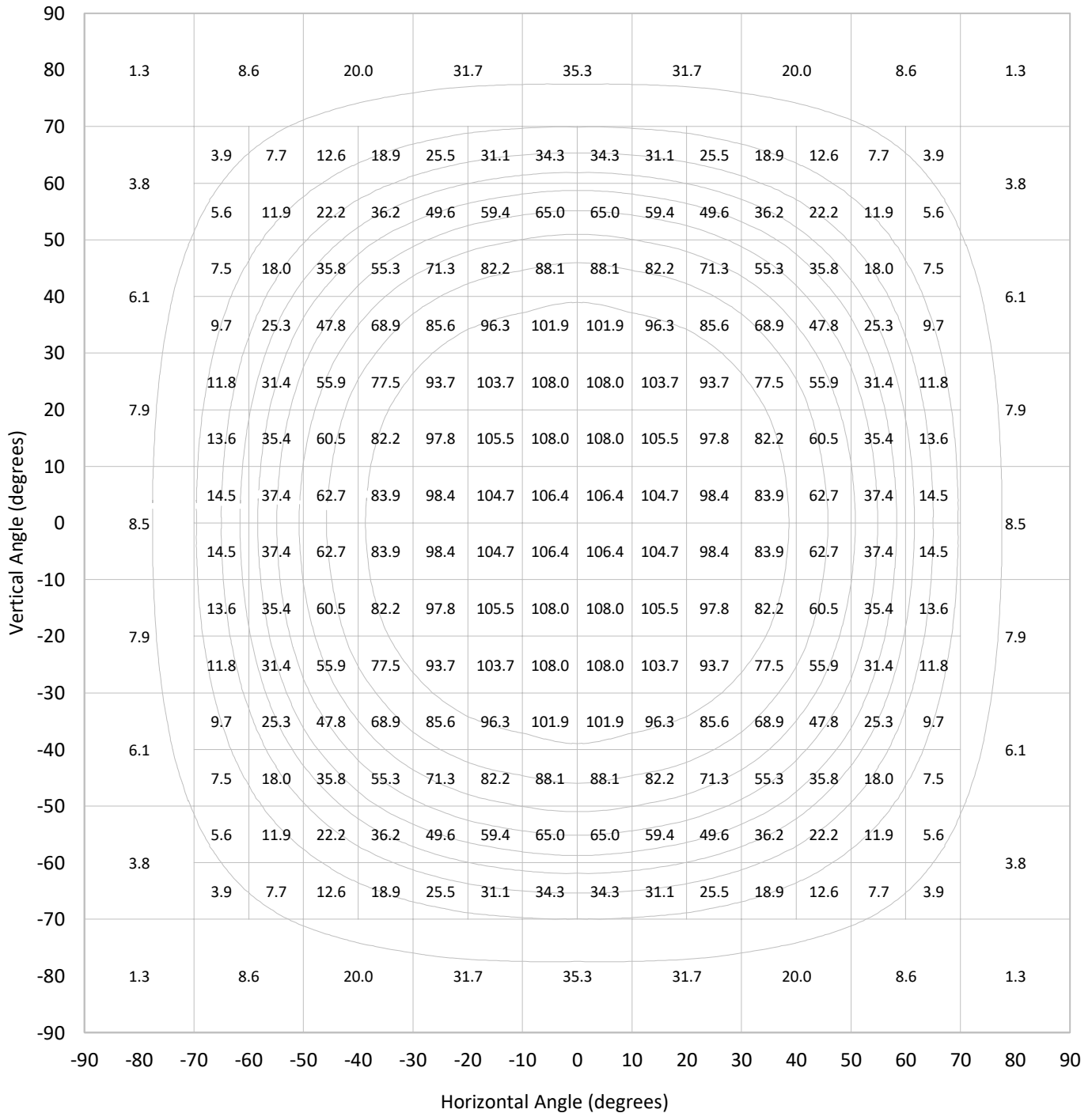
Iso-Candela Plot





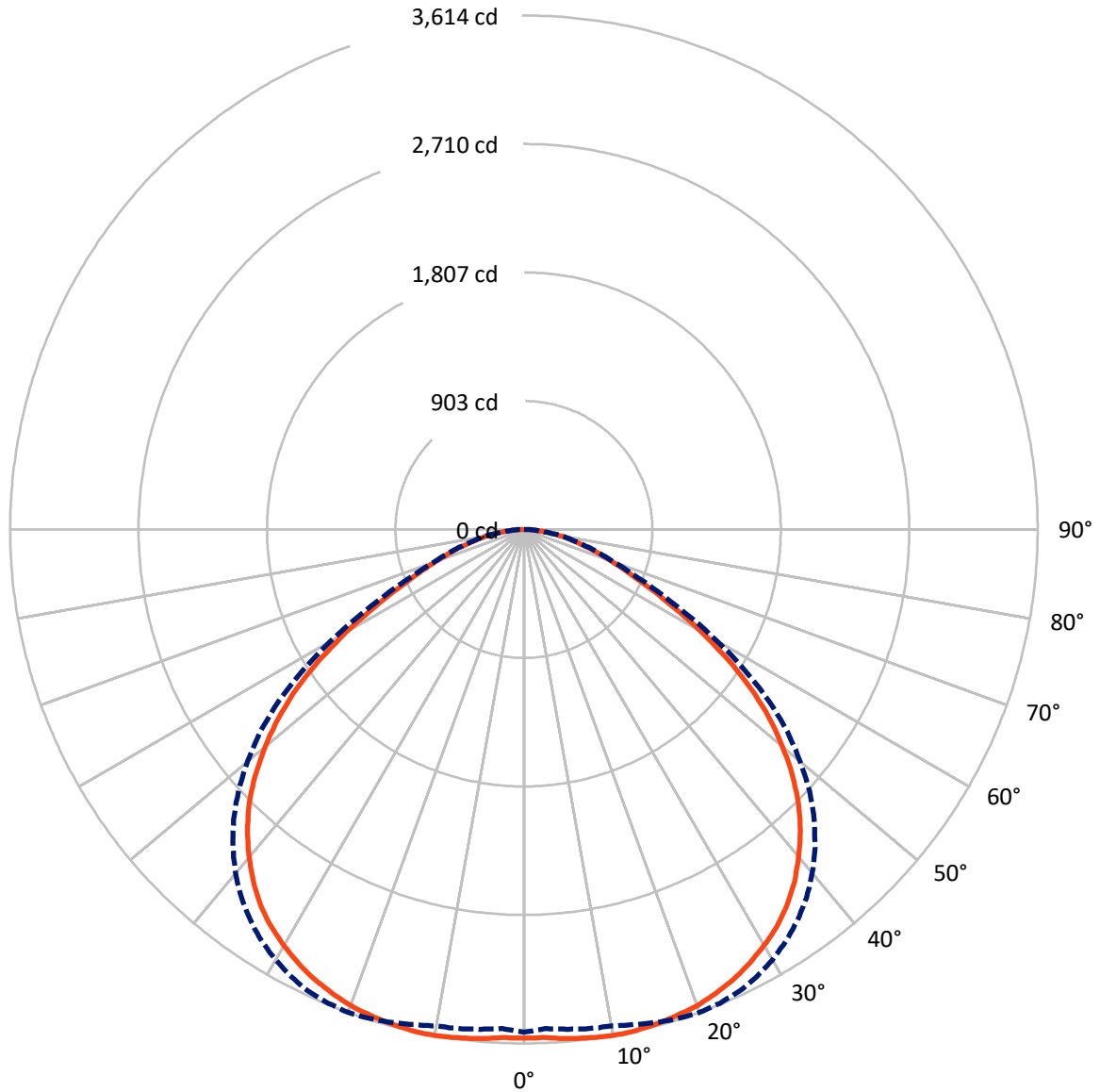
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Lumen Table



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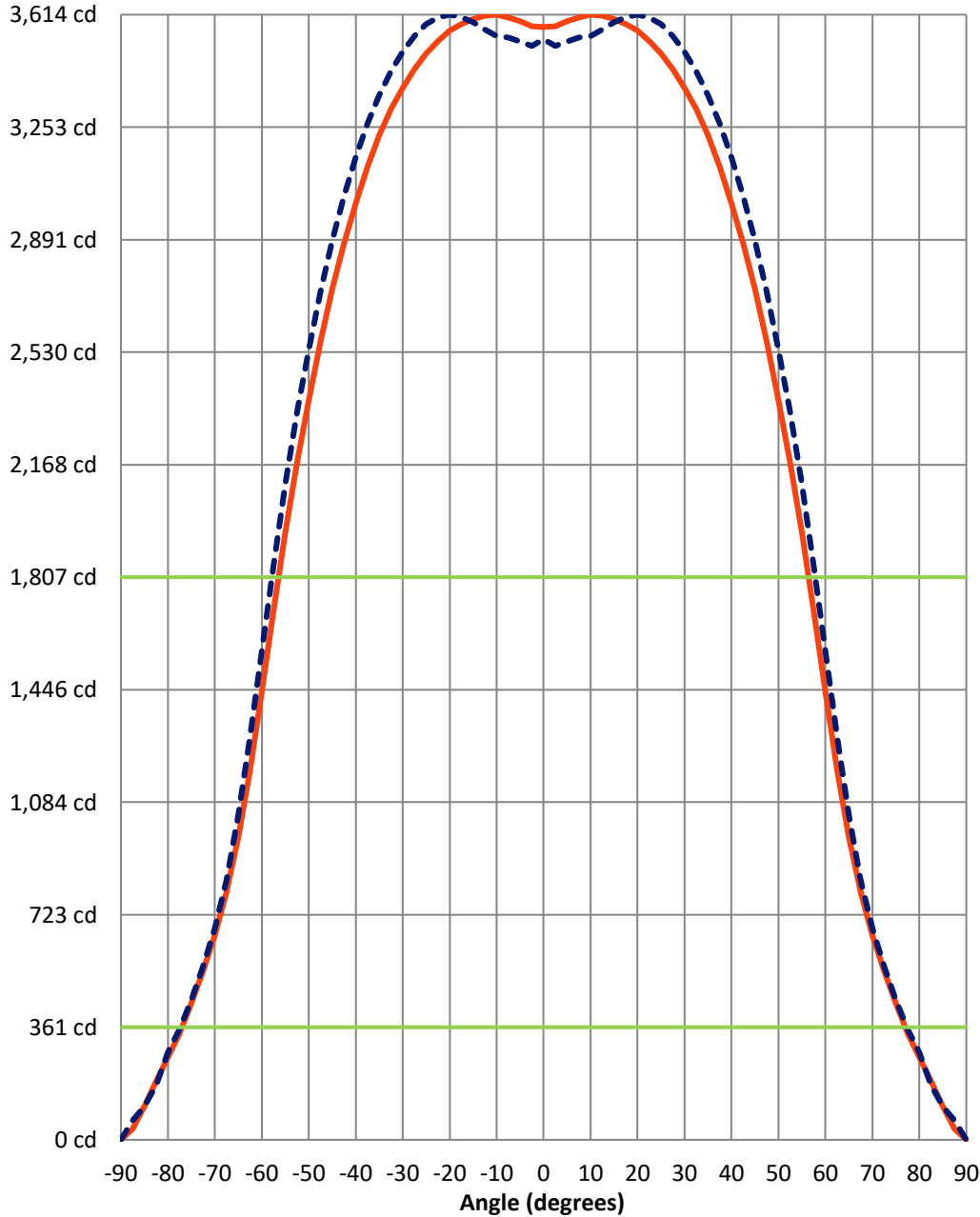
Luminous Intensity Polar Plot



— 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: 6803.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 8155.9
 Efficiency: 73.6%

Spill:
 Lumens: 2931.1
 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°	29.2	31.5	32.7	33.8	35.0	36.2	37.3	36.2	35.0	35.0	33.8
85°	78.2	80.5	81.7	89.8	98.0	102.7	108.5	107.3	107.3	106.2	105.0
82.5°	156.3	163.3	169.1	177.3	182.0	189.0	193.6	190.1	187.8	183.1	179.6
80°	277.6	280.0	281.1	282.3	276.5	275.3	273.0	269.5	264.8	259.0	253.1
77.5°	353.5	355.8	358.1	355.8	354.6	353.5	350.0	346.5	341.8	337.1	330.1
75°	467.8	467.8	467.8	464.3	461.9	458.4	452.6	446.8	438.6	429.3	418.8
72.5°	589.1	587.9	586.8	579.8	573.9	566.9	558.8	551.8	542.4	531.9	517.9
70°	716.3	718.6	719.7	710.4	703.4	694.1	683.6	670.8	656.8	641.6	621.8
67.5°	891.2	888.9	886.6	873.7	864.4	851.6	836.4	817.7	796.7	773.4	745.4
65°	1108.2	1111.7	1104.7	1091.9	1074.4	1053.4	1030.0	1003.2	971.7	936.7	897.1
62.5°	1370.7	1376.5	1368.3	1352.0	1329.8	1301.8	1269.2	1230.7	1187.5	1138.5	1089.5
60°	1669.3	1668.1	1653.0	1630.8	1601.6	1566.7	1530.5	1488.5	1439.5	1382.3	1322.8
57.5°	1943.4	1941.1	1922.4	1900.3	1871.1	1833.8	1795.3	1751.0	1699.6	1639.0	1570.2
55°	2189.6	2187.2	2168.6	2145.3	2114.9	2077.6	2042.6	2000.6	1950.4	1886.3	1812.8
52.5°	2407.7	2408.9	2392.6	2366.9	2334.2	2298.1	2264.2	2222.2	2174.4	2110.3	2039.1
50°	2608.4	2607.2	2589.7	2566.4	2536.0	2501.0	2467.2	2425.2	2375.1	2313.2	2244.4
47.5°	2795.0	2792.7	2772.8	2747.2	2715.7	2685.4	2653.9	2616.5	2564.0	2502.2	2433.4
45°	2951.3	2946.7	2926.8	2902.3	2872.0	2845.2	2817.2	2789.2	2733.2	2676.0	2610.7
42.5°	3085.5	3084.3	3064.5	3040.0	3009.7	2986.3	2960.7	2925.7	2879.0	2826.5	2762.3
40°	3213.8	3204.5	3184.6	3161.3	3133.3	3113.5	3087.8	3052.8	3007.3	2956.0	2894.2
37.5°	3309.4	3310.6	3289.6	3264.0	3239.5	3220.8	3197.5	3164.8	3125.1	3075.0	3013.2
35°	3400.4	3394.6	3377.1	3354.9	3332.8	3311.8	3287.3	3259.3	3226.6	3180.0	3121.6
32.5°	3459.9	3468.1	3447.1	3423.8	3410.9	3394.6	3368.9	3339.8	3310.6	3264.0	3211.5
30°	3525.3	3518.3	3501.9	3482.1	3472.8	3462.3	3440.1	3412.1	3378.3	3336.3	3287.3
27.5°	3570.8	3567.3	3547.4	3528.8	3524.1	3514.8	3497.3	3472.8	3438.9	3398.1	3352.6
25°	3590.6	3592.9	3574.3	3563.8	3563.8	3557.9	3543.9	3522.9	3489.1	3451.8	3407.4
22.5°	3599.9	3597.6	3584.8	3582.4	3588.3	3583.6	3577.8	3559.1	3528.8	3498.4	3461.1
20°	3605.7	3589.4	3577.8	3587.1	3594.1	3592.9	3588.3	3576.6	3562.6	3536.9	3504.3
17.5°	3592.9	3582.4	3568.4	3582.4	3597.6	3598.7	3594.1	3587.1	3583.6	3567.3	3538.1
15°	3561.4	3553.3	3555.6	3569.6	3587.1	3592.9	3596.4	3604.6	3599.9	3587.1	3561.4
12.5°	3540.4	3529.9	3540.4	3554.4	3563.8	3567.3	3595.2	3610.4	3610.4	3598.7	3582.4
10°	3534.6	3513.6	3527.6	3540.4	3545.1	3566.1	3589.4	3605.7	3613.9	3604.6	3583.6
7.5°	3522.9	3508.9	3514.8	3520.6	3547.4	3562.6	3575.4	3592.9	3604.6	3603.4	3584.8
5°	3517.1	3499.6	3501.9	3526.4	3545.1	3555.6	3560.3	3575.4	3592.9	3596.4	3582.4
2.5°	3501.9	3493.8	3511.3	3513.6	3527.6	3535.8	3540.4	3554.4	3576.6	3584.8	3578.9
0°	3493.8	3482.1	3470.4	3479.8	3503.1	3520.6	3527.6	3548.6	3574.3	3582.4	3569.6



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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°	32.7	31.5	30.3	29.2	30.3	30.3	30.3	29.2	30.3	29.2	29.2
85°	101.5	96.8	93.3	88.7	84.0	80.5	75.8	71.2	70.0	68.8	66.5
82.5°	175.0	169.1	163.3	156.3	149.3	141.2	133.0	123.7	121.3	119.0	115.5
80°	246.1	238.0	229.8	221.6	214.6	206.5	197.1	186.6	179.6	173.8	166.8
77.5°	320.8	309.1	297.5	283.5	275.3	267.1	257.8	247.3	236.8	227.5	217.0
75°	406.0	393.1	381.5	367.5	352.3	337.1	322.0	308.0	292.8	278.8	264.8
72.5°	500.4	481.8	463.1	445.6	427.0	408.3	388.5	369.8	351.1	332.5	312.6
70°	599.6	576.3	552.9	529.6	505.1	480.6	457.3	433.9	410.6	386.1	364.0
67.5°	716.3	689.4	659.1	626.4	590.3	558.8	528.4	500.4	472.4	444.4	416.5
65°	862.1	824.7	783.9	739.6	697.6	655.6	611.3	569.3	536.6	503.9	472.4
62.5°	1041.7	989.2	932.1	874.9	823.6	768.7	717.4	662.6	611.3	564.6	526.1
60°	1256.4	1185.2	1115.2	1041.7	970.6	895.9	830.6	762.9	698.8	641.6	585.6
57.5°	1493.2	1410.3	1326.3	1236.5	1139.7	1052.2	963.6	874.9	799.1	723.2	660.3
55°	1733.5	1646.0	1551.5	1450.0	1343.8	1231.9	1111.7	1012.5	908.7	820.1	738.4
52.5°	1962.1	1871.1	1773.1	1679.8	1552.7	1424.3	1292.5	1161.9	1040.5	927.4	828.2
50°	2166.2	2077.6	1983.1	1874.6	1756.8	1620.3	1473.3	1326.3	1182.9	1049.9	926.2
47.5°	2352.9	2266.6	2172.1	2063.6	1956.3	1804.6	1656.5	1494.3	1334.5	1181.7	1037.0
45°	2527.9	2440.4	2342.4	2238.6	2114.9	1979.6	1826.8	1663.5	1492.0	1320.5	1153.7
42.5°	2686.5	2599.0	2499.9	2392.6	2270.1	2135.9	1987.8	1823.3	1650.6	1464.0	1280.9
40°	2825.3	2740.2	2644.5	2532.5	2418.2	2277.1	2131.3	1974.9	1796.5	1608.6	1406.8
37.5°	2946.7	2867.3	2772.8	2662.0	2540.7	2414.7	2264.2	2107.9	1946.9	1742.8	1536.3
35°	3054.0	2980.5	2883.7	2778.7	2659.7	2526.7	2385.6	2232.7	2058.9	1867.6	1667.0
32.5°	3147.3	3072.6	2984.0	2879.0	2763.5	2638.7	2494.0	2340.1	2175.6	1980.8	1762.6
30°	3226.6	3154.3	3070.3	2971.2	2860.3	2736.7	2595.5	2440.4	2272.4	2078.8	1863.0
27.5°	3295.5	3226.6	3145.0	3052.8	2946.7	2827.7	2685.4	2529.0	2357.6	2170.9	1955.1
25°	3354.9	3288.5	3212.6	3125.1	3020.1	2903.5	2769.3	2606.0	2434.6	2246.7	2033.3
22.5°	3408.6	3344.4	3268.6	3183.5	3087.8	2971.2	2835.8	2673.7	2499.9	2314.4	2104.4
20°	3456.4	3396.9	3322.3	3234.8	3139.1	3021.3	2887.2	2733.2	2558.2	2376.2	2168.6
17.5°	3494.9	3442.4	3367.8	3275.6	3180.0	3065.6	2935.0	2793.8	2608.4	2428.7	2222.2
15°	3521.8	3470.4	3402.8	3309.4	3216.1	3103.0	2972.3	2826.5	2653.9	2470.7	2266.6
12.5°	3540.4	3485.6	3422.6	3336.3	3243.0	3131.0	3003.8	2860.3	2692.4	2508.0	2305.1
10°	3545.1	3494.9	3431.9	3354.9	3264.0	3155.5	3030.6	2888.3	2723.9	2537.2	2336.6
7.5°	3547.4	3499.6	3442.4	3368.9	3279.1	3174.1	3050.5	2910.5	2747.2	2561.7	2359.9
5°	3546.3	3500.8	3449.4	3378.3	3288.5	3184.6	3063.3	2925.7	2763.5	2578.0	2377.4
2.5°	3542.8	3501.9	3454.1	3385.3	3299.0	3196.3	3076.1	2943.2	2781.0	2592.0	2391.4
0°	3552.1	3517.1	3456.4	3382.9	3301.3	3196.3	3075.0	2945.5	2783.3	2590.9	2390.2



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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°	29.2	28.0	28.0	26.8	25.7	24.5	22.2	21.0	18.7	15.2	11.7
85°	63.0	59.5	56.0	53.7	51.3	49.0	45.5	42.0	37.3	30.3	23.3
82.5°	110.8	103.8	96.8	88.7	81.7	74.7	68.8	63.0	56.0	45.5	35.0
80°	158.6	148.1	137.7	126.0	115.5	103.8	93.3	84.0	74.7	60.7	46.7
77.5°	206.5	192.5	177.3	163.3	148.1	133.0	117.8	105.0	91.0	74.7	58.3
75°	250.8	234.5	220.5	200.6	182.0	162.1	142.3	124.8	107.3	87.5	70.0
72.5°	295.1	274.1	254.3	235.6	214.6	190.1	168.0	145.8	123.7	100.3	79.3
70°	339.5	313.8	289.3	267.1	243.8	219.3	192.5	166.8	140.0	112.0	87.5
67.5°	385.0	355.8	327.8	299.8	273.0	245.0	217.0	187.8	156.3	123.7	96.8
65°	435.1	399.0	365.1	333.6	302.1	271.8	240.3	208.8	173.8	136.5	105.0
62.5°	485.3	445.6	406.0	366.3	331.3	297.5	263.6	228.6	190.1	150.5	113.2
60°	538.9	493.4	447.9	403.6	360.5	323.1	285.8	248.5	207.6	163.3	121.3
57.5°	598.4	543.6	492.3	442.1	393.1	348.8	308.0	268.3	222.8	176.1	130.7
55°	666.1	598.4	537.8	481.8	428.1	374.5	330.1	289.3	240.3	189.0	141.2
52.5°	737.2	659.1	585.6	522.6	465.4	404.8	351.1	305.6	257.8	201.8	150.5
50°	820.1	720.9	639.3	562.3	498.1	435.1	373.3	324.3	275.3	217.0	159.8
47.5°	905.2	795.6	692.9	608.9	533.1	464.3	399.0	340.6	291.6	231.0	169.1
45°	1004.4	866.7	753.6	654.4	566.9	494.6	424.6	358.1	305.6	245.0	178.5
42.5°	1100.0	950.7	816.6	704.6	605.4	523.8	447.9	376.8	319.6	259.0	186.6
40°	1213.2	1034.7	877.2	752.4	643.9	551.8	471.3	396.6	332.5	271.8	194.8
37.5°	1321.7	1119.9	950.7	804.9	681.3	579.8	494.6	415.3	344.1	284.6	205.3
35°	1429.0	1214.4	1020.7	853.9	719.7	611.3	517.9	432.8	355.8	295.1	214.6
32.5°	1531.7	1303.0	1091.9	908.7	761.7	640.4	538.9	449.1	367.5	304.5	224.0
30°	1627.3	1387.0	1161.9	964.7	800.2	667.3	558.8	465.4	381.5	312.6	233.3
27.5°	1714.8	1468.7	1231.9	1017.2	836.4	691.8	579.8	480.6	393.1	320.8	241.5
25°	1794.1	1542.2	1296.0	1065.0	869.1	718.6	599.6	495.8	403.6	327.8	248.5
22.5°	1868.8	1609.8	1354.3	1112.9	908.7	745.4	618.3	509.8	414.1	334.8	255.5
20°	1934.1	1671.6	1410.3	1160.7	943.7	769.9	634.6	522.6	423.5	339.5	262.5
17.5°	1986.6	1726.5	1460.5	1202.7	974.1	790.9	648.6	534.3	431.6	345.3	267.1
15°	2033.3	1773.1	1502.5	1238.9	1000.9	808.4	661.4	543.6	438.6	348.8	273.0
12.5°	2072.9	1812.8	1538.7	1270.4	1024.2	823.6	671.9	550.6	444.4	352.3	276.5
10°	2105.6	1844.3	1569.0	1294.8	1042.9	835.2	680.1	557.6	449.1	355.8	280.0
7.5°	2130.1	1867.6	1591.1	1315.8	1058.0	843.4	687.1	562.3	453.8	358.1	285.8
5°	2148.8	1887.4	1608.6	1329.8	1069.7	855.1	695.3	568.1	458.4	360.5	285.8
2.5°	2162.7	1903.8	1622.6	1341.5	1079.0	852.7	695.3	566.9	458.4	360.5	284.6
0°	2160.4	1904.9	1621.5	1341.5	1079.0	850.4	695.3	565.8	458.4	360.5	284.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.2	5.8	2.3	0.0
85°	17.5	11.7	5.8	0.0
82.5°	25.7	16.3	8.2	0.0
80°	33.8	22.2	10.5	0.0
77.5°	43.2	28.0	14.0	0.0
75°	51.3	32.7	16.3	0.0
72.5°	59.5	38.5	18.7	0.0
70°	66.5	43.2	21.0	0.0
67.5°	73.5	49.0	24.5	0.0
65°	79.3	53.7	26.8	0.0
62.5°	84.0	59.5	29.2	0.0
60°	89.8	64.2	31.5	0.0
57.5°	94.5	67.7	33.8	0.0
55°	99.2	70.0	36.2	0.0
52.5°	103.8	73.5	38.5	0.0
50°	108.5	77.0	40.8	0.0
47.5°	113.2	79.3	42.0	0.0
45°	120.2	82.8	44.3	0.0
42.5°	126.0	85.2	46.7	0.0
40°	131.8	87.5	47.8	0.0
37.5°	137.7	89.8	50.2	0.0
35°	143.5	92.2	51.3	0.0
32.5°	148.1	94.5	52.5	0.0
30°	152.8	96.8	53.7	0.0
27.5°	157.5	98.0	54.8	0.0
25°	161.0	100.3	56.0	0.0
22.5°	164.5	101.5	57.2	0.0
20°	166.8	102.7	58.3	0.0
17.5°	170.3	103.8	59.5	0.0
15°	171.5	105.0	61.8	0.0
12.5°	173.8	106.2	61.8	0.0
10°	175.0	107.3	61.8	0.0
7.5°	177.3	107.3	61.8	0.0
5°	176.1	107.3	61.8	0.0
2.5°	176.1	107.3	61.8	0.0
0°	175.0	107.3	61.8	0.0

(END OF REPORT)