

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: P628504

Luminaire Tested: **IFLD-S-SA3B-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628504
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	12654.3 lumens	Max Intensity:	4124.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	103.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		

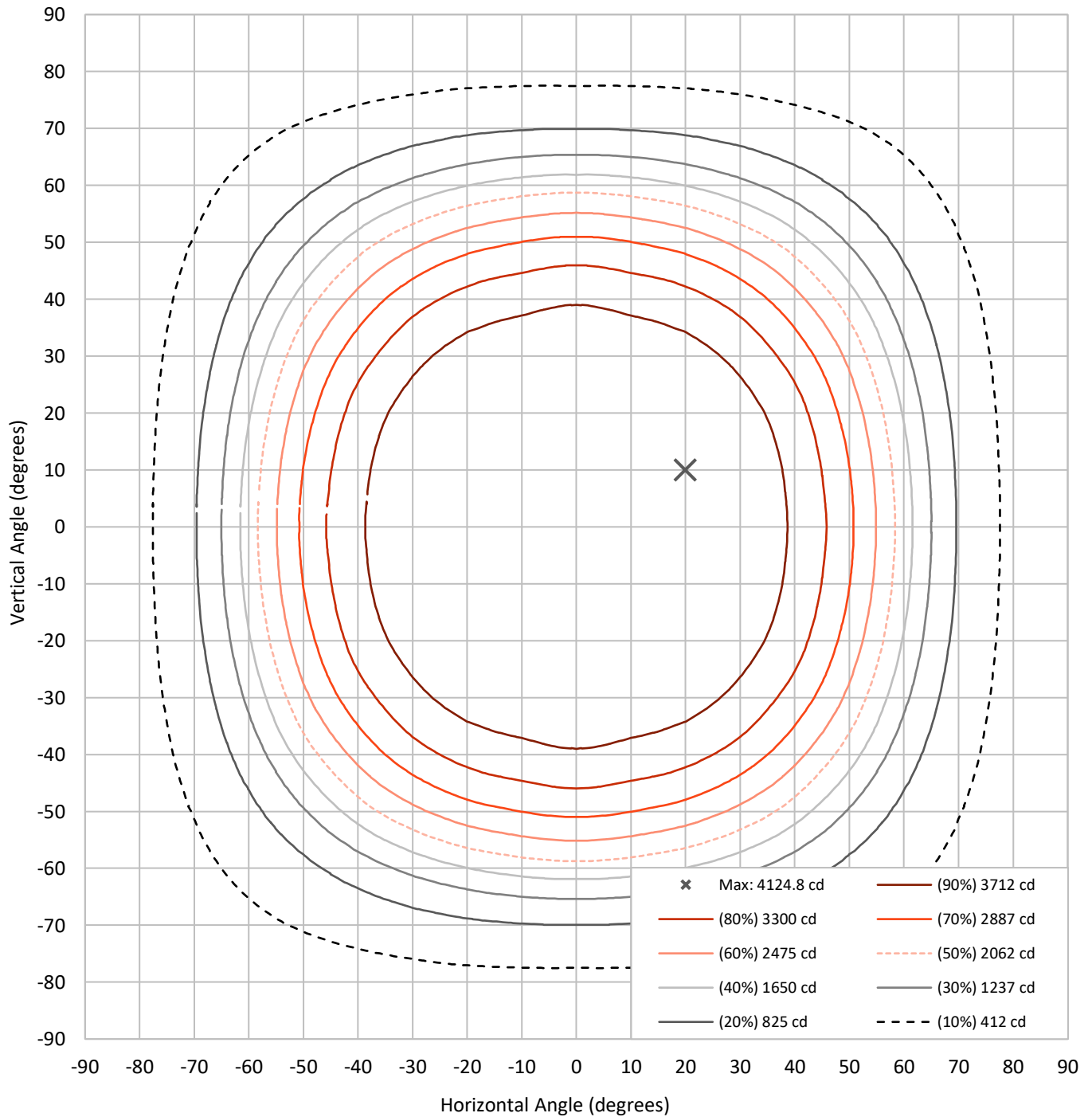
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	7765 lumens	Field Lumens:	9308.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



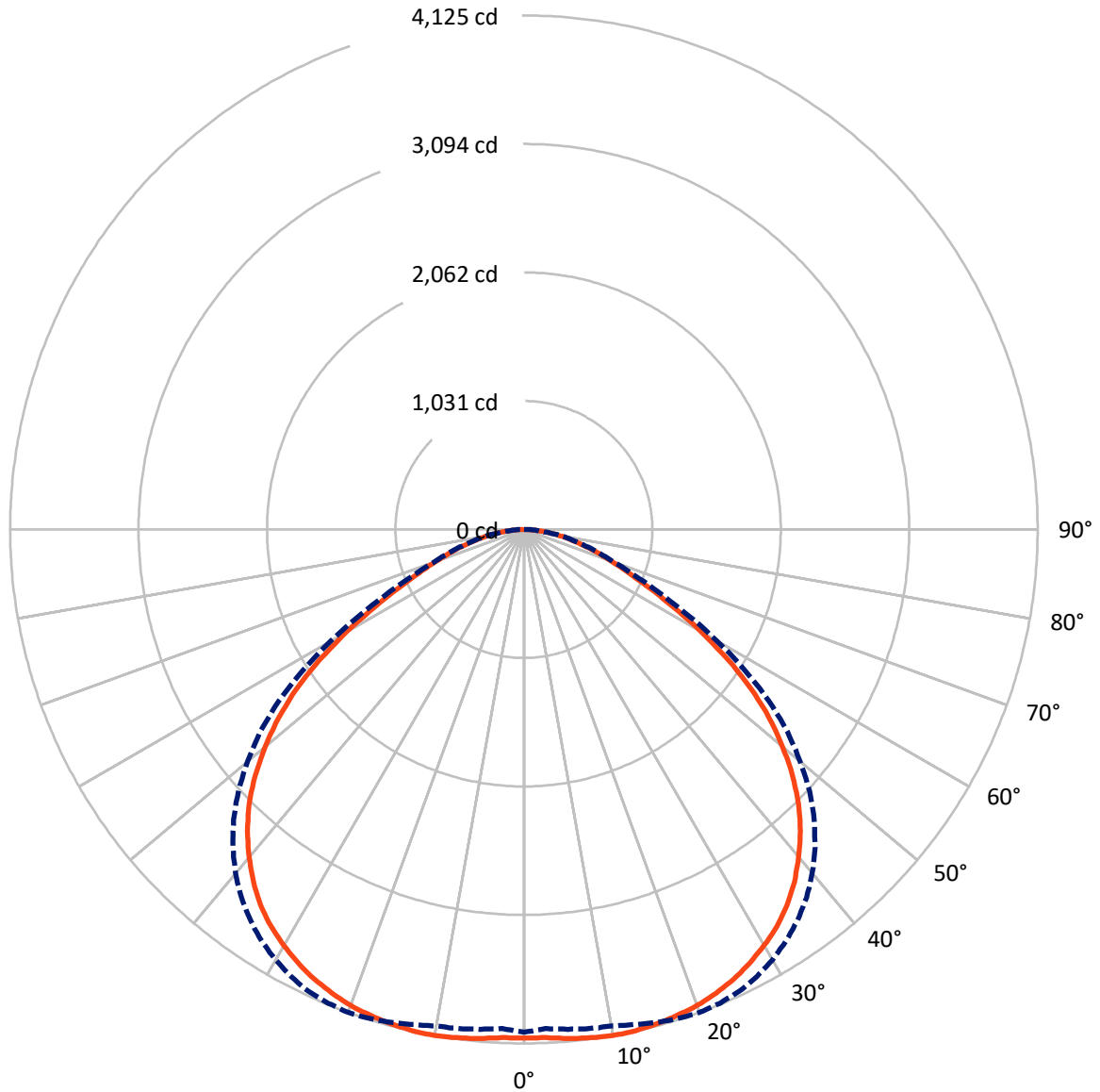
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Iso-Candela Plot



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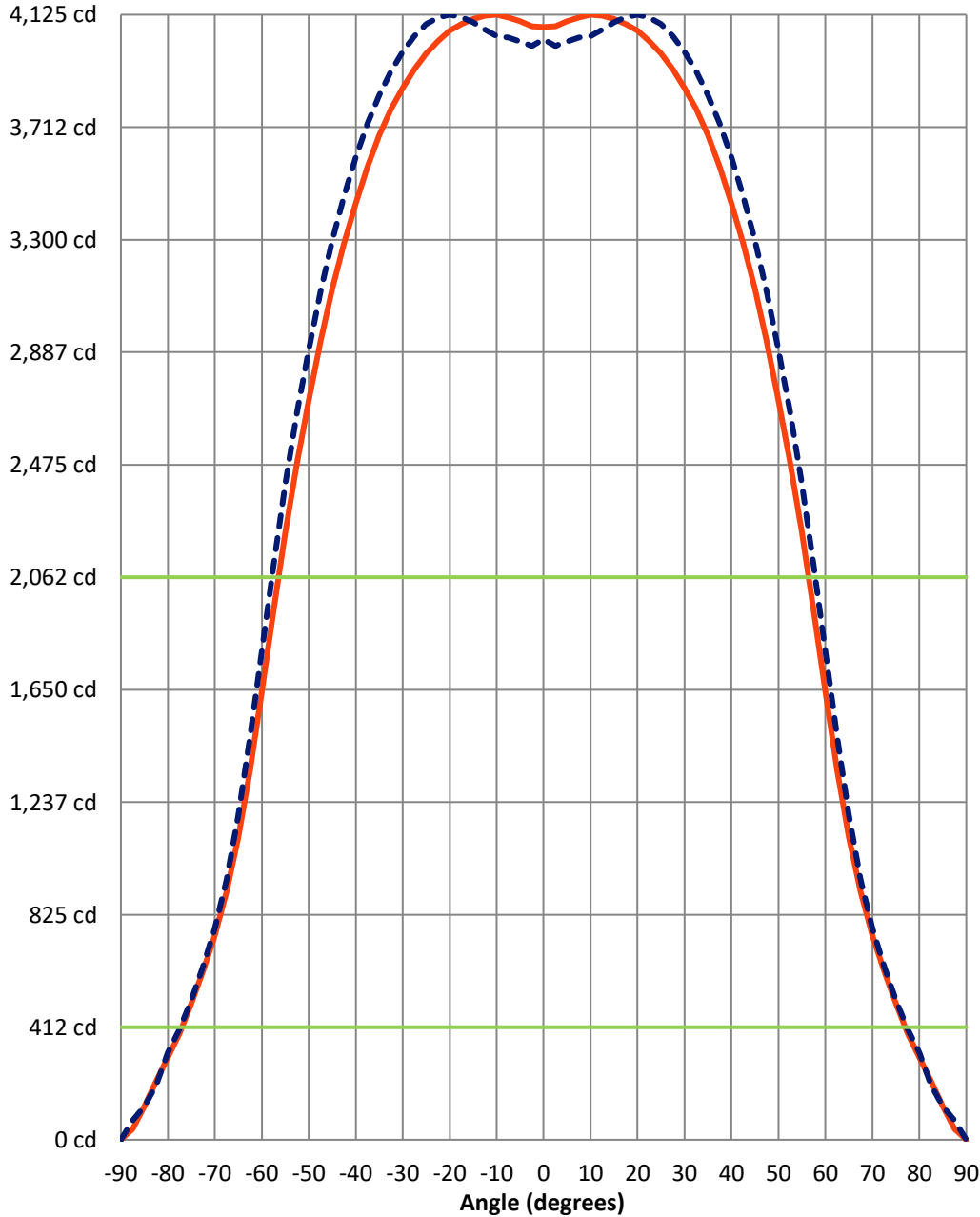
Luminous Intensity Polar Plot



— 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: 7765
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 9308.9
 Efficiency: 73.6%

Spill:
 Lumens: 3345.5
 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°	33.3	35.9	37.3	38.6	39.9	41.3	42.6	41.3	39.9	39.9	38.6
85°	89.2	91.9	93.2	102.5	111.8	117.2	123.8	122.5	122.5	121.2	119.8
82.5°	178.4	186.4	193.1	202.4	207.7	215.7	221.0	217.0	214.4	209.0	205.0
80°	316.9	319.5	320.9	322.2	315.6	314.2	311.6	307.6	302.2	295.6	288.9
77.5°	403.4	406.1	408.8	406.1	404.8	403.4	399.4	395.4	390.1	384.8	376.8
75°	533.9	533.9	533.9	529.9	527.3	523.3	516.6	509.9	500.6	490.0	478.0
72.5°	672.4	671.0	669.7	661.7	655.1	647.1	637.8	629.8	619.1	607.1	591.2
70°	817.5	820.2	821.5	810.8	802.9	792.2	780.2	765.6	749.6	732.3	709.7
67.5°	1017.2	1014.6	1011.9	997.2	986.6	972.0	954.6	933.3	909.4	882.7	850.8
65°	1264.9	1268.9	1260.9	1246.2	1226.3	1202.3	1175.7	1145.0	1109.1	1069.1	1023.9
62.5°	1564.4	1571.1	1561.8	1543.1	1517.8	1485.9	1448.6	1404.7	1355.4	1299.5	1243.6
60°	1905.3	1904.0	1886.7	1861.4	1828.1	1788.1	1746.9	1698.9	1643.0	1577.8	1509.9
57.5°	2218.2	2215.5	2194.2	2168.9	2135.6	2093.0	2049.1	1998.5	1939.9	1870.7	1792.1
55°	2499.1	2496.5	2475.1	2448.5	2413.9	2371.3	2331.4	2283.4	2226.2	2152.9	2069.1
52.5°	2748.1	2749.4	2730.8	2701.5	2664.2	2622.9	2584.3	2536.4	2481.8	2408.6	2327.4
50°	2977.1	2975.8	2955.8	2929.2	2894.6	2854.6	2816.0	2768.1	2710.8	2640.2	2561.7
47.5°	3190.1	3187.5	3164.8	3135.5	3099.6	3065.0	3029.0	2986.4	2926.5	2855.9	2777.4
45°	3368.5	3363.2	3340.6	3312.6	3278.0	3247.4	3215.4	3183.5	3119.6	3054.3	2979.8
42.5°	3521.7	3520.3	3497.7	3469.7	3435.1	3408.5	3379.2	3339.3	3286.0	3226.1	3152.9
40°	3668.1	3657.5	3634.8	3608.2	3576.3	3553.6	3524.3	3484.4	3432.5	3373.9	3303.3
37.5°	3777.3	3778.6	3754.7	3725.4	3697.4	3676.1	3649.5	3612.2	3566.9	3509.7	3439.1
35°	3881.2	3874.5	3854.5	3829.2	3803.9	3780.0	3752.0	3720.0	3682.8	3629.5	3562.9
32.5°	3949.1	3958.4	3934.4	3907.8	3893.1	3874.5	3845.2	3811.9	3778.6	3725.4	3665.5
30°	4023.6	4015.6	3997.0	3974.4	3963.7	3951.7	3926.4	3894.5	3855.9	3807.9	3752.0
27.5°	4075.5	4071.5	4048.9	4027.6	4022.3	4011.6	3991.7	3963.7	3925.1	3878.5	3826.6
25°	4098.2	4100.8	4079.5	4067.6	4067.6	4060.9	4044.9	4021.0	3982.3	3939.7	3889.1
22.5°	4108.8	4106.2	4091.5	4088.9	4095.5	4090.2	4083.5	4062.2	4027.6	3993.0	3950.4
20°	4115.5	4096.8	4083.5	4094.2	4102.2	4100.8	4095.5	4082.2	4066.2	4036.9	3999.7
17.5°	4100.8	4088.9	4072.9	4088.9	4106.2	4107.5	4102.2	4094.2	4090.2	4071.5	4038.3
15°	4064.9	4055.6	4058.2	4074.2	4094.2	4100.8	4104.8	4114.2	4108.8	4094.2	4064.9
12.5°	4040.9	4028.9	4040.9	4056.9	4067.6	4071.5	4103.5	4120.8	4120.8	4107.5	4088.9
10°	4034.3	4010.3	4026.3	4040.9	4046.3	4070.2	4096.8	4115.5	4124.8	4114.2	4090.2
7.5°	4021.0	4005.0	4011.6	4018.3	4048.9	4066.2	4080.9	4100.8	4114.2	4112.8	4091.5
5°	4014.3	3994.3	3997.0	4024.9	4046.3	4058.2	4063.6	4080.9	4100.8	4104.8	4088.9
2.5°	3997.0	3987.7	4007.6	4010.3	4026.3	4035.6	4040.9	4056.9	4082.2	4091.5	4084.9
0°	3987.7	3974.4	3961.0	3971.7	3998.3	4018.3	4026.3	4050.2	4079.5	4088.9	4074.2



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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°	37.3	35.9	34.6	33.3	34.6	34.6	34.6	33.3	34.6	33.3	33.3
85°	115.8	110.5	106.5	101.2	95.9	91.9	86.5	81.2	79.9	78.6	75.9
82.5°	199.7	193.1	186.4	178.4	170.4	161.1	151.8	141.1	138.5	135.8	131.8
80°	280.9	271.6	262.3	253.0	245.0	235.7	225.0	213.0	205.0	198.4	190.4
77.5°	366.1	352.8	339.5	323.5	314.2	304.9	294.2	282.3	270.3	259.6	247.6
75°	463.3	448.7	435.4	419.4	402.1	384.8	367.5	351.5	334.2	318.2	302.2
72.5°	571.2	549.9	528.6	508.6	487.3	466.0	443.4	422.1	400.8	379.5	356.8
70°	684.4	657.7	631.1	604.5	576.5	548.6	521.9	495.3	468.7	440.7	415.4
67.5°	817.5	786.9	752.3	715.0	673.7	637.8	603.1	571.2	539.2	507.3	475.3
65°	983.9	941.3	894.7	844.1	796.2	748.3	697.7	649.7	612.5	575.2	539.2
62.5°	1189.0	1129.1	1063.8	998.6	940.0	877.4	818.8	756.3	697.7	644.4	600.5
60°	1434.0	1352.7	1272.9	1189.0	1107.8	1022.5	948.0	870.8	797.5	732.3	668.4
57.5°	1704.2	1609.7	1513.8	1411.3	1300.8	1201.0	1099.8	998.6	912.0	825.5	753.6
55°	1978.5	1878.7	1770.8	1655.0	1533.8	1406.0	1268.9	1155.7	1037.2	936.0	842.8
52.5°	2239.5	2135.6	2023.8	1917.3	1772.1	1625.7	1475.2	1326.1	1187.6	1058.5	945.3
50°	2472.5	2371.3	2263.5	2139.6	2005.2	1849.4	1681.6	1513.8	1350.1	1198.3	1057.2
47.5°	2685.5	2587.0	2479.1	2355.3	2232.8	2059.7	1890.6	1705.6	1523.2	1348.8	1183.7
45°	2885.2	2785.4	2673.5	2555.0	2413.9	2259.5	2085.0	1898.6	1702.9	1507.2	1316.8
42.5°	3066.3	2966.5	2853.3	2730.8	2591.0	2437.9	2268.8	2081.0	1884.0	1671.0	1461.9
40°	3224.8	3127.6	3018.4	2890.6	2760.1	2599.0	2432.5	2254.1	2050.4	1836.1	1605.7
37.5°	3363.2	3272.7	3164.8	3038.3	2899.9	2756.1	2584.3	2405.9	2222.2	1989.2	1753.5
35°	3485.7	3401.8	3291.3	3171.5	3035.7	2883.9	2722.8	2548.4	2350.0	2131.6	1902.6
32.5°	3592.2	3507.0	3405.8	3286.0	3154.2	3011.7	2846.6	2670.9	2483.1	2260.8	2011.8
30°	3682.8	3600.2	3504.4	3391.2	3264.7	3123.6	2962.5	2785.4	2593.6	2372.6	2126.3
27.5°	3761.3	3682.8	3589.6	3484.4	3363.2	3227.4	3065.0	2886.6	2690.8	2477.8	2231.5
25°	3829.2	3753.3	3666.8	3566.9	3447.1	3314.0	3160.8	2974.4	2778.7	2564.4	2320.7
22.5°	3890.5	3817.2	3730.7	3633.5	3524.3	3391.2	3236.7	3051.7	2853.3	2641.6	2401.9
20°	3945.1	3877.2	3791.9	3692.1	3582.9	3448.4	3295.3	3119.6	2919.9	2712.1	2475.1
17.5°	3989.0	3929.1	3843.9	3738.7	3629.5	3499.0	3349.9	3188.8	2977.1	2772.1	2536.4
15°	4019.6	3961.0	3883.8	3777.3	3670.8	3541.6	3392.5	3226.1	3029.0	2820.0	2587.0
12.5°	4040.9	3978.3	3906.4	3807.9	3701.4	3573.6	3428.5	3264.7	3073.0	2862.6	2630.9
10°	4046.3	3989.0	3917.1	3829.2	3725.4	3601.5	3459.1	3296.6	3108.9	2895.9	2666.9
7.5°	4048.9	3994.3	3929.1	3845.2	3742.7	3622.9	3481.7	3321.9	3135.5	2923.8	2693.5
5°	4047.6	3995.7	3937.1	3855.9	3753.3	3634.8	3496.4	3339.3	3154.2	2942.5	2713.5
2.5°	4043.6	3997.0	3942.4	3863.8	3765.3	3648.1	3511.0	3359.2	3174.2	2958.5	2729.5
0°	4054.2	4014.3	3945.1	3861.2	3768.0	3648.1	3509.7	3361.9	3176.8	2957.1	2728.1



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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°	33.3	32.0	32.0	30.6	29.3	28.0	25.3	24.0	21.3	17.3	13.3
85°	71.9	67.9	63.9	61.2	58.6	55.9	51.9	47.9	42.6	34.6	26.6
82.5°	126.5	118.5	110.5	101.2	93.2	85.2	78.6	71.9	63.9	51.9	39.9
80°	181.1	169.1	157.1	143.8	131.8	118.5	106.5	95.9	85.2	69.2	53.3
77.5°	235.7	219.7	202.4	186.4	169.1	151.8	134.5	119.8	103.9	85.2	66.6
75°	286.3	267.6	251.6	229.0	207.7	185.1	162.4	142.5	122.5	99.9	79.9
72.5°	336.9	312.9	290.3	269.0	245.0	217.0	191.7	166.4	141.1	114.5	90.5
70°	387.4	358.2	330.2	304.9	278.3	250.3	219.7	190.4	159.8	127.8	99.9
67.5°	439.4	406.1	374.1	342.2	311.6	279.6	247.6	214.4	178.4	141.1	110.5
65°	496.6	455.4	416.7	380.8	344.8	310.2	274.3	238.3	198.4	155.8	119.8
62.5°	553.9	508.6	463.3	418.1	378.1	339.5	300.9	261.0	217.0	171.8	129.1
60°	615.1	563.2	511.3	460.7	411.4	368.8	326.2	283.6	237.0	186.4	138.5
57.5°	683.0	620.5	561.9	504.6	448.7	398.1	351.5	306.2	254.3	201.0	149.1
55°	760.3	683.0	613.8	549.9	488.6	427.4	376.8	330.2	274.3	215.7	161.1
52.5°	841.5	752.3	668.4	596.5	531.2	462.0	400.8	348.8	294.2	230.3	171.8
50°	936.0	822.8	729.6	641.8	568.5	496.6	426.1	370.1	314.2	247.6	182.4
47.5°	1033.2	908.0	790.9	695.0	608.5	529.9	455.4	388.8	332.9	263.6	193.1
45°	1146.4	989.3	860.1	746.9	647.1	564.5	484.6	408.8	348.8	279.6	203.7
42.5°	1255.5	1085.1	932.0	804.2	691.0	597.8	511.3	430.1	364.8	295.6	213.0
40°	1384.7	1181.0	1001.2	858.8	735.0	629.8	537.9	452.7	379.5	310.2	222.4
37.5°	1508.5	1278.2	1085.1	918.7	777.6	661.7	564.5	474.0	392.8	324.9	234.3
35°	1631.0	1386.0	1165.0	974.6	821.5	697.7	591.2	494.0	406.1	336.9	245.0
32.5°	1748.2	1487.2	1246.2	1037.2	869.4	731.0	615.1	512.6	419.4	347.5	255.6
30°	1857.4	1583.1	1326.1	1101.1	913.4	761.6	637.8	531.2	435.4	356.8	266.3
27.5°	1957.2	1676.3	1406.0	1161.0	954.6	789.5	661.7	548.6	448.7	366.1	275.6
25°	2047.8	1760.2	1479.2	1215.6	991.9	820.2	684.4	565.9	460.7	374.1	283.6
22.5°	2133.0	1837.4	1545.8	1270.2	1037.2	850.8	705.7	581.8	472.7	382.1	291.6
20°	2207.5	1908.0	1609.7	1324.8	1077.1	878.8	724.3	596.5	483.3	387.4	299.6
17.5°	2267.4	1970.5	1667.0	1372.7	1111.8	902.7	740.3	609.8	492.6	394.1	304.9
15°	2320.7	2023.8	1714.9	1414.0	1142.4	922.7	754.9	620.5	500.6	398.1	311.6
12.5°	2366.0	2069.1	1756.2	1449.9	1169.0	940.0	766.9	628.4	507.3	402.1	315.6
10°	2403.3	2105.0	1790.8	1477.9	1190.3	953.3	776.2	636.4	512.6	406.1	319.5
7.5°	2431.2	2131.6	1816.1	1501.9	1207.6	962.6	784.2	641.8	517.9	408.8	326.2
5°	2452.5	2154.3	1836.1	1517.8	1220.9	975.9	793.5	648.4	523.3	411.4	326.2
2.5°	2468.5	2172.9	1852.0	1531.2	1231.6	973.3	793.5	647.1	523.3	411.4	324.9
0°	2465.8	2174.2	1850.7	1531.2	1231.6	970.6	793.5	645.7	523.3	411.4	324.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.3	6.7	2.7	0.0
85°	20.0	13.3	6.7	0.0
82.5°	29.3	18.6	9.3	0.0
80°	38.6	25.3	12.0	0.0
77.5°	49.3	32.0	16.0	0.0
75°	58.6	37.3	18.6	0.0
72.5°	67.9	43.9	21.3	0.0
70°	75.9	49.3	24.0	0.0
67.5°	83.9	55.9	28.0	0.0
65°	90.5	61.2	30.6	0.0
62.5°	95.9	67.9	33.3	0.0
60°	102.5	73.2	35.9	0.0
57.5°	107.8	77.2	38.6	0.0
55°	113.2	79.9	41.3	0.0
52.5°	118.5	83.9	43.9	0.0
50°	123.8	87.9	46.6	0.0
47.5°	129.1	90.5	47.9	0.0
45°	137.1	94.5	50.6	0.0
42.5°	143.8	97.2	53.3	0.0
40°	150.5	99.9	54.6	0.0
37.5°	157.1	102.5	57.3	0.0
35°	163.8	105.2	58.6	0.0
32.5°	169.1	107.8	59.9	0.0
30°	174.4	110.5	61.2	0.0
27.5°	179.7	111.8	62.6	0.0
25°	183.7	114.5	63.9	0.0
22.5°	187.7	115.8	65.2	0.0
20°	190.4	117.2	66.6	0.0
17.5°	194.4	118.5	67.9	0.0
15°	195.7	119.8	70.6	0.0
12.5°	198.4	121.2	70.6	0.0
10°	199.7	122.5	70.6	0.0
7.5°	202.4	122.5	70.6	0.0
5°	201.0	122.5	70.6	0.0
2.5°	201.0	122.5	70.6	0.0
0°	199.7	122.5	70.6	0.0

(END OF REPORT)