

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: P628271

Luminaire Tested: **IFLD-S-SA3A-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628271
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

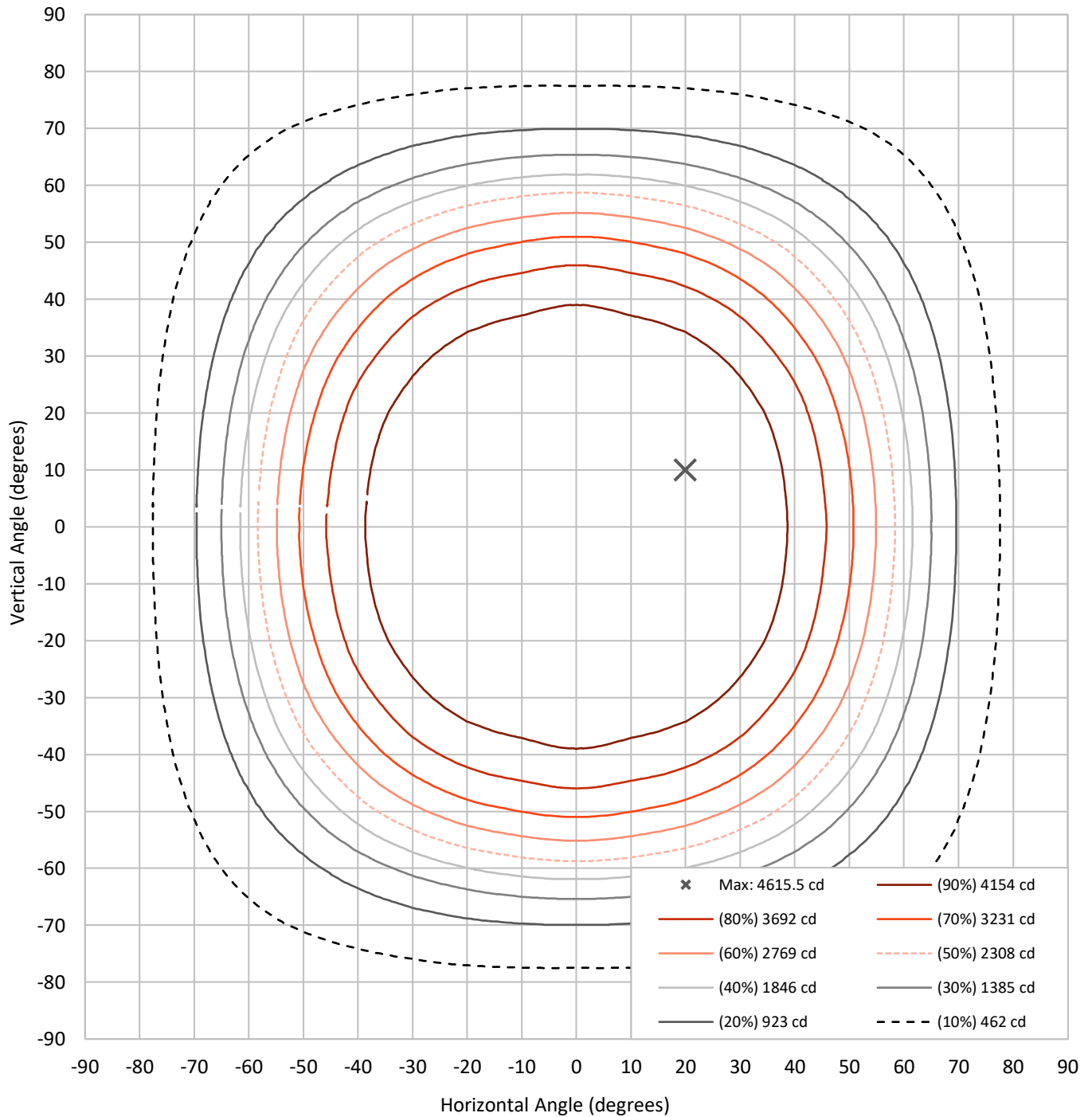
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14159.9 lumens	Max Intensity:	4615.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	149.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8688.8 lumens	Field Lumens:	10416.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 94.8
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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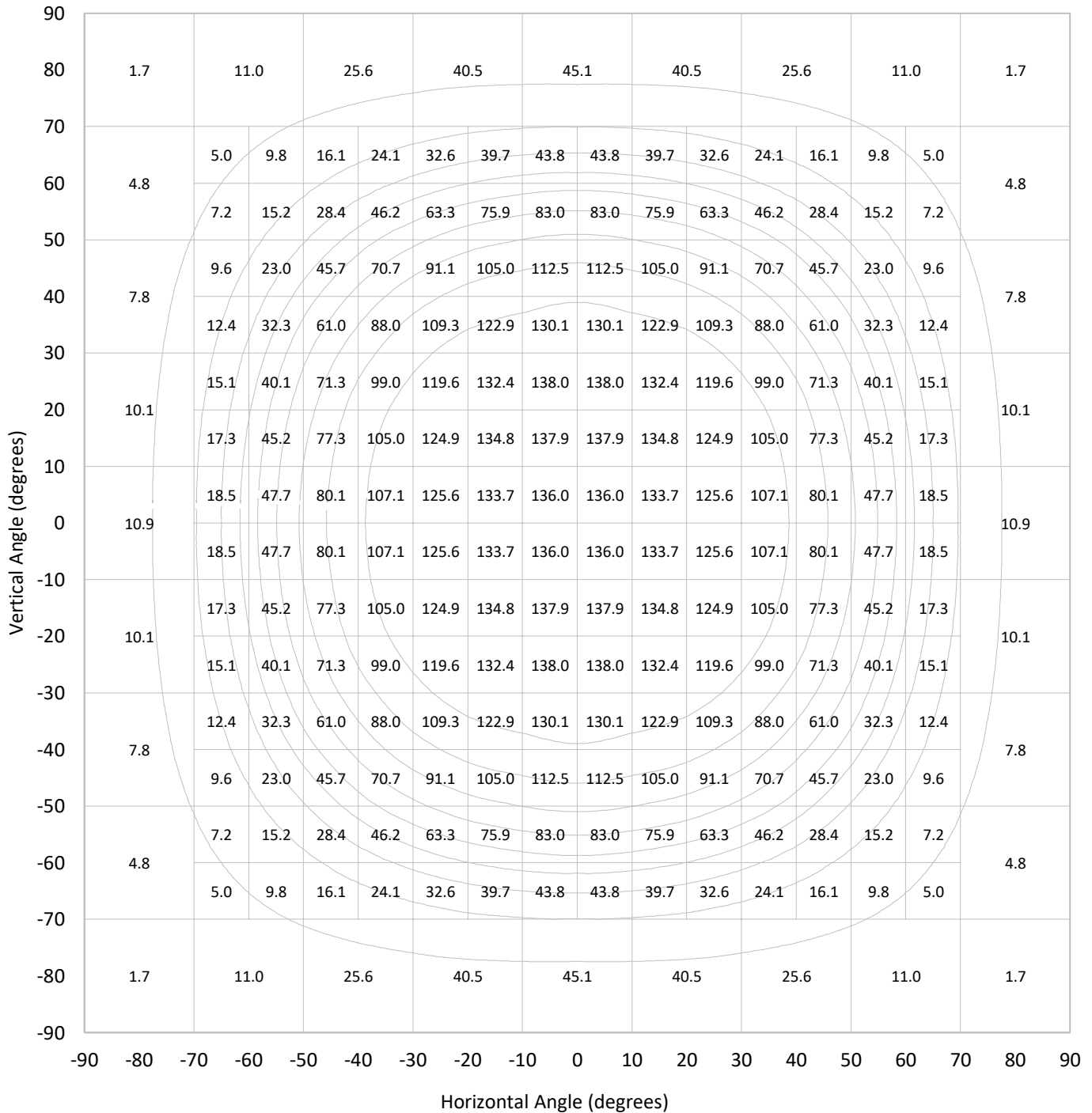
Iso-Candela Plot





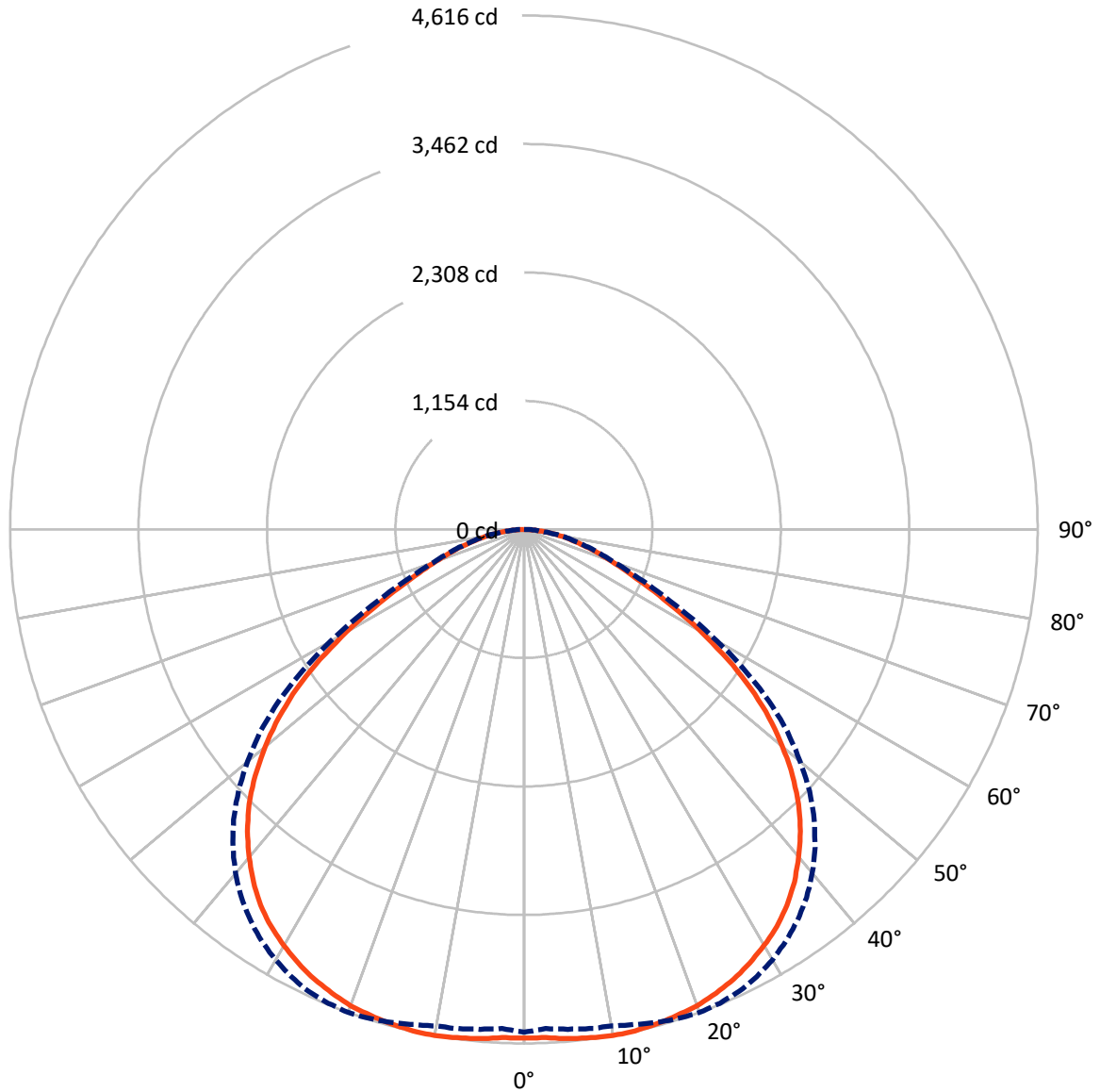
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Lumen Table



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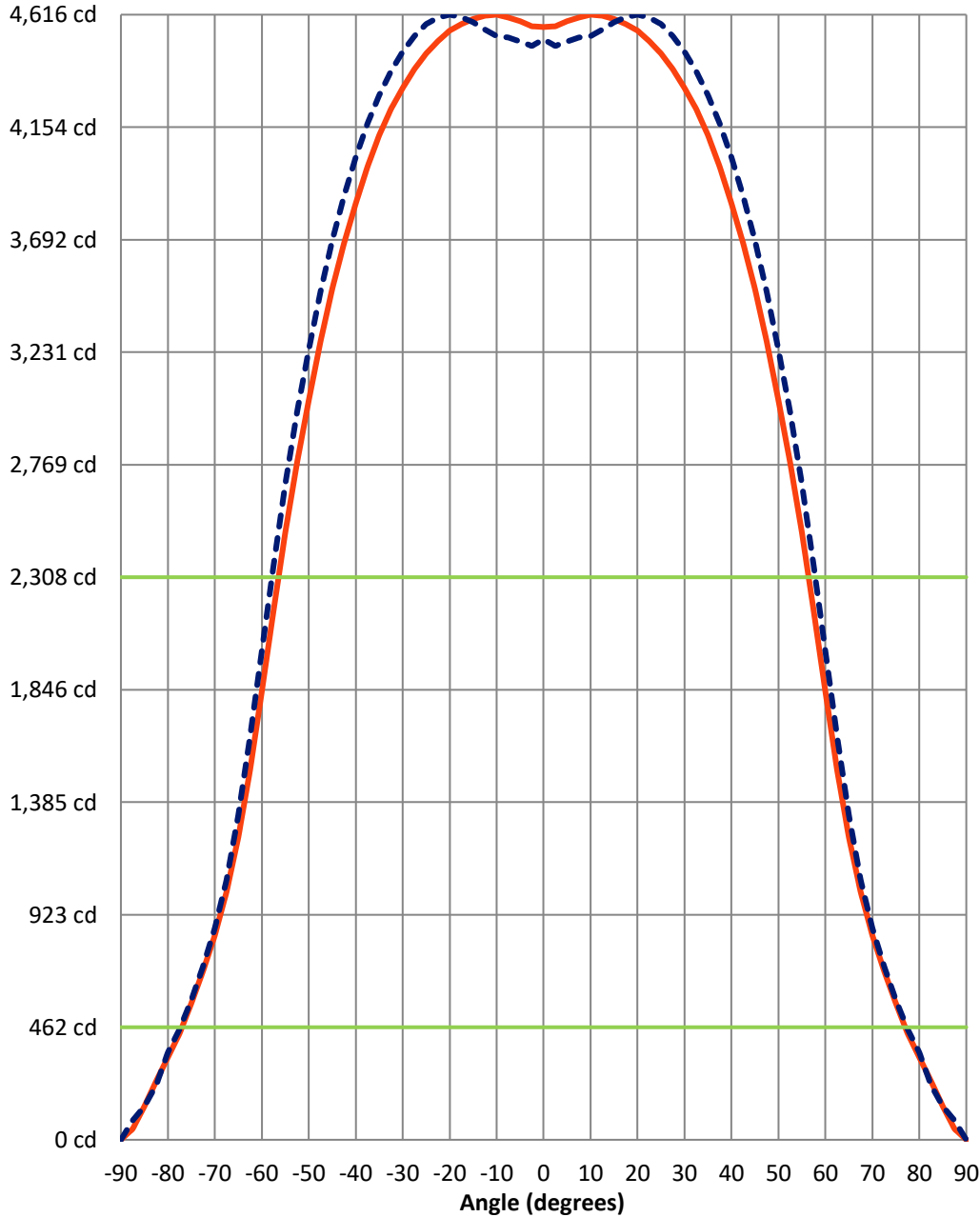
Luminous Intensity Polar Plot



— 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: 8688.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 10416.4
 Efficiency: 73.6%

Spill:
 Lumens: 3743.5
 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°	37.2	40.2	41.7	43.2	44.7	46.2	47.7	46.2	44.7	44.7	43.2
85°	99.8	102.8	104.3	114.7	125.1	131.1	138.6	137.1	137.1	135.6	134.1
82.5°	199.6	208.6	216.0	226.5	232.4	241.4	247.3	242.8	239.9	233.9	229.4
80°	354.6	357.6	359.1	360.5	353.1	351.6	348.6	344.2	338.2	330.7	323.3
77.5°	451.4	454.4	457.4	454.4	452.9	451.4	447.0	442.5	436.5	430.6	421.6
75°	597.4	597.4	597.4	593.0	590.0	585.5	578.1	570.6	560.2	548.3	534.9
72.5°	752.4	750.9	749.4	740.5	733.0	724.1	713.6	704.7	692.8	679.4	661.5
70°	914.8	917.7	919.2	907.3	898.4	886.5	873.1	856.7	838.8	819.4	794.1
67.5°	1138.2	1135.3	1132.3	1115.9	1104.0	1087.6	1068.2	1044.4	1017.6	987.8	952.0
65°	1415.4	1419.8	1410.9	1394.5	1372.2	1345.3	1315.5	1281.3	1241.0	1196.3	1145.7
62.5°	1750.6	1758.0	1747.6	1726.7	1698.4	1662.7	1621.0	1571.8	1516.7	1454.1	1391.5
60°	2132.0	2130.5	2111.1	2082.8	2045.6	2000.9	1954.7	1901.0	1838.5	1765.5	1689.5
57.5°	2482.1	2479.1	2455.3	2427.0	2389.7	2342.0	2292.9	2236.3	2170.7	2093.2	2005.3
55°	2796.4	2793.5	2769.6	2739.8	2701.1	2653.4	2608.7	2555.1	2491.0	2409.1	2315.2
52.5°	3075.0	3076.5	3055.7	3022.9	2981.2	2935.0	2891.8	2838.2	2777.1	2695.1	2604.3
50°	3331.3	3329.8	3307.5	3277.7	3238.9	3194.2	3151.0	3097.4	3033.3	2954.4	2866.5
47.5°	3569.7	3566.7	3541.4	3508.6	3468.4	3429.6	3389.4	3341.7	3274.7	3195.7	3107.8
45°	3769.3	3763.4	3738.0	3706.7	3668.0	3633.7	3598.0	3562.2	3490.7	3417.7	3334.3
42.5°	3940.6	3939.2	3913.8	3882.5	3843.8	3814.0	3781.2	3736.5	3676.9	3609.9	3528.0
40°	4104.5	4092.6	4067.3	4037.5	4001.7	3976.4	3943.6	3898.9	3840.8	3775.3	3696.3
37.5°	4226.7	4228.2	4201.4	4168.6	4137.3	4113.5	4083.7	4042.0	3991.3	3927.2	3848.3
35°	4342.9	4335.5	4313.1	4284.8	4256.5	4229.7	4198.4	4162.6	4120.9	4061.3	3986.8
32.5°	4418.9	4429.3	4402.5	4372.7	4356.3	4335.5	4302.7	4265.4	4228.2	4168.6	4101.6
30°	4502.3	4493.4	4472.5	4447.2	4435.3	4421.9	4393.6	4357.8	4314.6	4261.0	4198.4
27.5°	4560.4	4556.0	4530.6	4506.8	4500.8	4488.9	4466.6	4435.3	4392.1	4339.9	4281.8
25°	4585.8	4588.7	4564.9	4551.5	4551.5	4544.0	4526.2	4499.3	4456.1	4408.5	4351.8
22.5°	4597.7	4594.7	4578.3	4575.3	4582.8	4576.8	4569.4	4545.5	4506.8	4468.1	4420.4
20°	4605.1	4584.3	4569.4	4581.3	4590.2	4588.7	4582.8	4567.9	4550.0	4517.2	4475.5
17.5°	4588.7	4575.3	4557.4	4575.3	4594.7	4596.2	4590.2	4581.3	4576.8	4556.0	4518.7
15°	4548.5	4538.1	4541.1	4558.9	4581.3	4588.7	4593.2	4603.6	4597.7	4581.3	4548.5
12.5°	4521.7	4508.3	4521.7	4539.6	4551.5	4556.0	4591.7	4611.1	4611.1	4596.2	4575.3
10°	4514.2	4487.4	4505.3	4521.7	4527.6	4554.5	4584.3	4605.1	4615.5	4603.6	4576.8
7.5°	4499.3	4481.5	4488.9	4496.4	4530.6	4550.0	4566.4	4588.7	4603.6	4602.1	4578.3
5°	4491.9	4469.5	4472.5	4503.8	4527.6	4541.1	4547.0	4566.4	4588.7	4593.2	4575.3
2.5°	4472.5	4462.1	4484.4	4487.4	4505.3	4515.7	4521.7	4539.6	4567.9	4578.3	4570.9
0°	4462.1	4447.2	4432.3	4444.2	4474.0	4496.4	4505.3	4532.1	4564.9	4575.3	4558.9



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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°	41.7	40.2	38.7	37.2	38.7	38.7	38.7	37.2	38.7	37.2	37.2
85°	129.6	123.7	119.2	113.2	107.3	102.8	96.8	90.9	89.4	87.9	84.9
82.5°	223.5	216.0	208.6	199.6	190.7	180.3	169.8	157.9	154.9	152.0	147.5
80°	314.4	303.9	293.5	283.1	274.1	263.7	251.8	238.4	229.4	222.0	213.0
77.5°	409.7	394.8	379.9	362.0	351.6	341.2	329.3	315.8	302.4	290.5	277.1
75°	518.5	502.1	487.2	469.3	449.9	430.6	411.2	393.3	374.0	356.1	338.2
72.5°	639.1	615.3	591.5	569.1	545.3	521.4	496.1	472.3	448.4	424.6	399.3
70°	765.8	736.0	706.2	676.4	645.1	613.8	584.0	554.2	524.4	493.1	464.8
67.5°	914.8	880.5	841.8	800.0	753.9	713.6	674.9	639.1	603.4	567.6	531.9
65°	1101.0	1053.3	1001.2	944.6	890.9	837.3	780.7	727.0	685.3	643.6	603.4
62.5°	1330.4	1263.4	1190.4	1117.4	1051.8	981.8	916.3	846.2	780.7	721.1	671.9
60°	1604.6	1513.7	1424.3	1330.4	1239.6	1144.2	1060.8	974.4	892.4	819.4	747.9
57.5°	1907.0	1801.2	1694.0	1579.2	1455.6	1343.8	1230.6	1117.4	1020.5	923.7	843.3
55°	2213.9	2102.2	1981.5	1851.9	1716.3	1573.3	1419.8	1293.2	1160.6	1047.4	943.1
52.5°	2505.9	2389.7	2264.6	2145.4	1983.0	1819.1	1650.8	1483.9	1328.9	1184.4	1057.8
50°	2766.6	2653.4	2532.7	2394.2	2243.7	2069.4	1881.7	1694.0	1510.7	1340.9	1182.9
47.5°	3005.0	2894.8	2774.1	2635.5	2498.5	2304.8	2115.6	1908.5	1704.4	1509.2	1324.5
45°	3228.5	3116.8	2991.6	2859.0	2701.1	2528.3	2333.1	2124.5	1905.5	1686.5	1473.5
42.5°	3431.1	3319.4	3192.7	3055.7	2899.2	2727.9	2538.7	2328.6	2108.1	1869.8	1635.9
40°	3608.4	3499.7	3377.5	3234.5	3088.5	2908.2	2722.0	2522.3	2294.4	2054.5	1796.8
37.5°	3763.4	3662.0	3541.4	3399.8	3244.9	3084.0	2891.8	2692.2	2486.6	2225.8	1962.1
35°	3900.4	3806.6	3682.9	3548.8	3396.9	3227.0	3046.7	2851.6	2629.6	2385.2	2129.0
32.5°	4019.6	3924.3	3811.0	3676.9	3529.4	3370.0	3185.3	2988.6	2778.6	2529.8	2251.2
30°	4120.9	4028.5	3921.3	3794.6	3653.1	3495.2	3314.9	3116.8	2902.2	2654.9	2379.3
27.5°	4208.8	4120.9	4016.6	3898.9	3763.4	3611.4	3429.6	3230.0	3011.0	2772.6	2497.0
25°	4284.8	4199.9	4103.0	3991.3	3857.2	3708.2	3536.9	3328.3	3109.3	2869.4	2596.8
22.5°	4353.3	4271.4	4174.6	4065.8	3943.6	3794.6	3621.8	3414.7	3192.7	2955.9	2687.7
20°	4414.4	4338.4	4243.1	4131.3	4009.2	3858.7	3687.4	3490.7	3267.2	3034.8	2769.6
17.5°	4463.6	4396.5	4301.2	4183.5	4061.3	3915.3	3748.5	3568.2	3331.3	3101.9	2838.2
15°	4497.9	4432.3	4345.9	4226.7	4107.5	3963.0	3796.1	3609.9	3389.4	3155.5	2894.8
12.5°	4521.7	4451.7	4371.2	4261.0	4141.8	3998.8	3836.4	3653.1	3438.6	3203.2	2943.9
10°	4527.6	4463.6	4383.1	4284.8	4168.6	4030.0	3870.6	3688.9	3478.8	3240.4	2984.2
7.5°	4530.6	4469.5	4396.5	4302.7	4188.0	4053.9	3896.0	3717.2	3508.6	3271.7	3014.0
5°	4529.1	4471.0	4405.5	4314.6	4199.9	4067.3	3912.3	3736.5	3529.4	3292.6	3036.3
2.5°	4524.7	4472.5	4411.4	4323.5	4213.3	4082.2	3928.7	3758.9	3551.8	3310.4	3054.2
0°	4536.6	4491.9	4414.4	4320.6	4216.3	4082.2	3927.2	3761.9	3554.8	3309.0	3052.7



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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°	37.2	35.8	35.8	34.3	32.8	31.3	28.3	26.8	23.8	19.4	14.9
85°	80.5	76.0	71.5	68.5	65.6	62.6	58.1	53.6	47.7	38.7	29.8
82.5°	141.5	132.6	123.7	113.2	104.3	95.4	87.9	80.5	71.5	58.1	44.7
80°	202.6	189.2	175.8	160.9	147.5	132.6	119.2	107.3	95.4	77.5	59.6
77.5°	263.7	245.8	226.5	208.6	189.2	169.8	150.5	134.1	116.2	95.4	74.5
75°	320.3	299.5	281.6	256.3	232.4	207.1	181.8	159.4	137.1	111.7	89.4
72.5°	376.9	350.1	324.8	300.9	274.1	242.8	214.5	186.2	157.9	128.1	101.3
70°	433.5	400.8	369.5	341.2	311.4	280.1	245.8	213.0	178.8	143.0	111.7
67.5°	491.6	454.4	418.6	382.9	348.6	312.9	277.1	239.9	199.6	157.9	123.7
65°	555.7	509.5	466.3	426.1	385.9	347.1	306.9	266.7	222.0	174.3	134.1
62.5°	619.8	569.1	518.5	467.8	423.1	379.9	336.7	292.0	242.8	192.2	144.5
60°	688.3	630.2	572.1	515.5	460.4	412.7	365.0	317.3	265.2	208.6	154.9
57.5°	764.3	694.3	628.7	564.7	502.1	445.5	393.3	342.7	284.6	225.0	166.9
55°	850.7	764.3	686.8	615.3	546.8	478.2	421.6	369.5	306.9	241.4	180.3
52.5°	941.6	841.8	747.9	667.5	594.4	517.0	448.4	390.3	329.3	257.7	192.2
50°	1047.4	920.7	816.4	718.1	636.2	555.7	476.8	414.2	351.6	277.1	204.1
47.5°	1156.1	1016.1	885.0	777.7	680.9	593.0	509.5	435.0	372.5	295.0	216.0
45°	1282.8	1107.0	962.4	835.8	724.1	631.7	542.3	457.4	390.3	312.9	227.9
42.5°	1404.9	1214.2	1042.9	899.9	773.2	668.9	572.1	481.2	408.2	330.7	238.4
40°	1549.4	1321.5	1120.4	961.0	822.4	704.7	601.9	506.5	424.6	347.1	248.8
37.5°	1688.0	1430.3	1214.2	1028.0	870.1	740.5	631.7	530.4	439.5	363.5	262.2
35°	1825.1	1550.9	1303.6	1090.6	919.2	780.7	661.5	552.7	454.4	376.9	274.1
32.5°	1956.2	1664.2	1394.5	1160.6	972.9	817.9	688.3	573.6	469.3	388.9	286.1
30°	2078.3	1771.4	1483.9	1232.1	1022.0	852.2	713.6	594.4	487.2	399.3	298.0
27.5°	2190.1	1875.7	1573.3	1299.1	1068.2	883.5	740.5	613.8	502.1	409.7	308.4
25°	2291.4	1969.6	1655.2	1360.2	1109.9	917.7	765.8	633.2	515.5	418.6	317.3
22.5°	2386.7	2056.0	1729.7	1421.3	1160.6	952.0	789.6	651.1	528.9	427.6	326.3
20°	2470.2	2135.0	1801.2	1482.4	1205.3	983.3	810.5	667.5	540.8	433.5	335.2
17.5°	2537.2	2205.0	1865.3	1536.0	1244.0	1010.1	828.4	682.4	551.2	441.0	341.2
15°	2596.8	2264.6	1918.9	1582.2	1278.3	1032.5	844.7	694.3	560.2	445.5	348.6
12.5°	2647.5	2315.2	1965.1	1622.4	1308.1	1051.8	858.2	703.2	567.6	449.9	353.1
10°	2689.2	2355.4	2003.8	1653.7	1331.9	1066.7	868.6	712.1	573.6	454.4	357.6
7.5°	2720.5	2385.2	2032.2	1680.5	1351.3	1077.2	877.5	718.1	579.6	457.4	365.0
5°	2744.3	2410.6	2054.5	1698.4	1366.2	1092.1	887.9	725.6	585.5	460.4	365.0
2.5°	2762.2	2431.4	2072.4	1713.3	1378.1	1089.1	887.9	724.1	585.5	460.4	363.5
0°	2759.2	2432.9	2070.9	1713.3	1378.1	1086.1	887.9	722.6	585.5	460.4	363.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.4	7.4	3.0	0.0
85°	22.3	14.9	7.4	0.0
82.5°	32.8	20.9	10.4	0.0
80°	43.2	28.3	13.4	0.0
77.5°	55.1	35.8	17.9	0.0
75°	65.6	41.7	20.9	0.0
72.5°	76.0	49.2	23.8	0.0
70°	84.9	55.1	26.8	0.0
67.5°	93.9	62.6	31.3	0.0
65°	101.3	68.5	34.3	0.0
62.5°	107.3	76.0	37.2	0.0
60°	114.7	81.9	40.2	0.0
57.5°	120.7	86.4	43.2	0.0
55°	126.6	89.4	46.2	0.0
52.5°	132.6	93.9	49.2	0.0
50°	138.6	98.3	52.1	0.0
47.5°	144.5	101.3	53.6	0.0
45°	153.5	105.8	56.6	0.0
42.5°	160.9	108.8	59.6	0.0
40°	168.4	111.7	61.1	0.0
37.5°	175.8	114.7	64.1	0.0
35°	183.3	117.7	65.6	0.0
32.5°	189.2	120.7	67.0	0.0
30°	195.2	123.7	68.5	0.0
27.5°	201.1	125.1	70.0	0.0
25°	205.6	128.1	71.5	0.0
22.5°	210.1	129.6	73.0	0.0
20°	213.0	131.1	74.5	0.0
17.5°	217.5	132.6	76.0	0.0
15°	219.0	134.1	79.0	0.0
12.5°	222.0	135.6	79.0	0.0
10°	223.5	137.1	79.0	0.0
7.5°	226.5	137.1	79.0	0.0
5°	225.0	137.1	79.0	0.0
2.5°	225.0	137.1	79.0	0.0
0°	223.5	137.1	79.0	0.0

(END OF REPORT)