

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: P628212

Luminaire Tested: **IFLD-S-SA2E-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628212
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

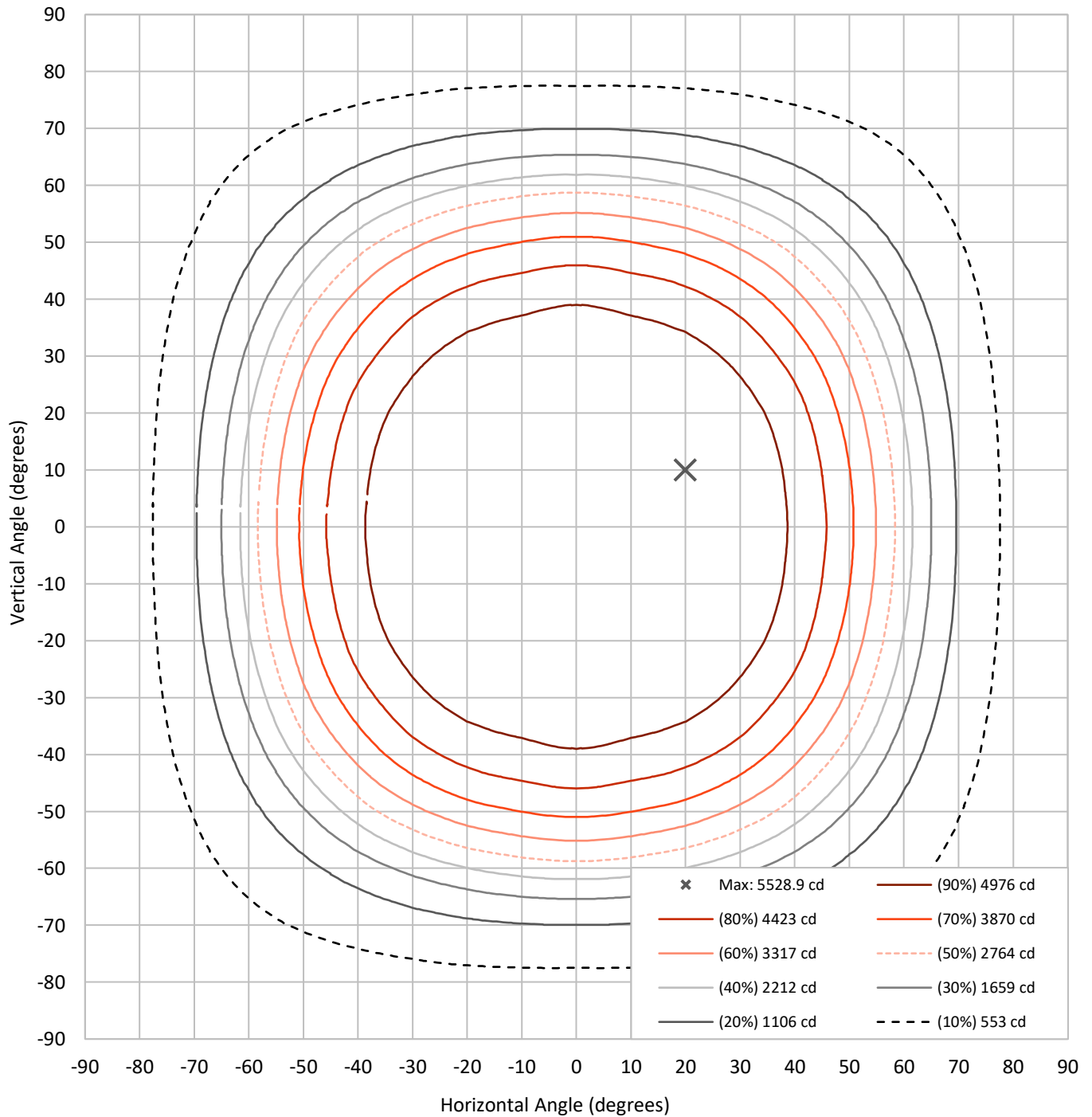
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16962.1 lumens	Max Intensity:	5528.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	108.6 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:	10408.3 lumens	Field Lumens:	12477.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	156.2		
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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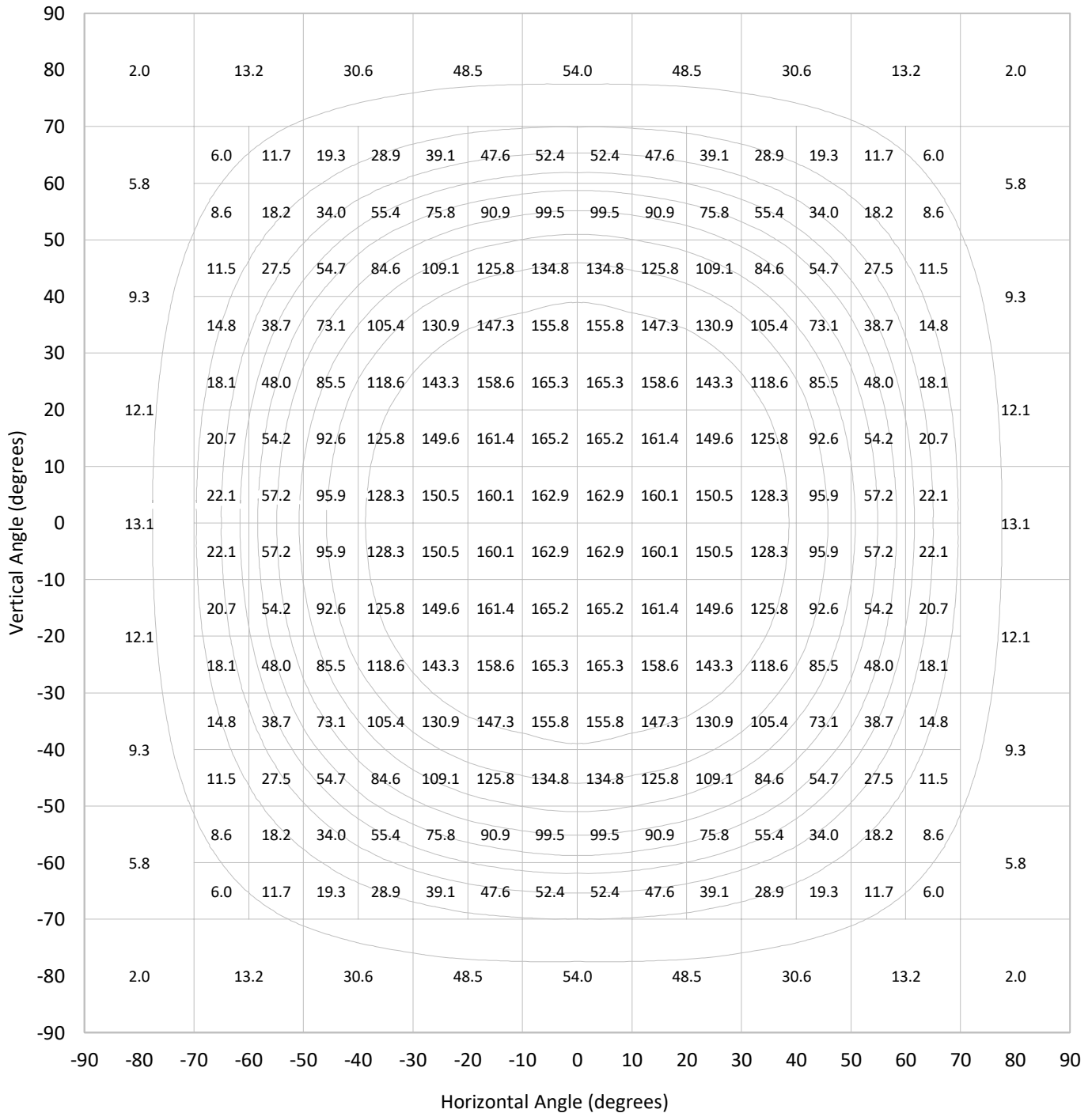
Iso-Candela Plot





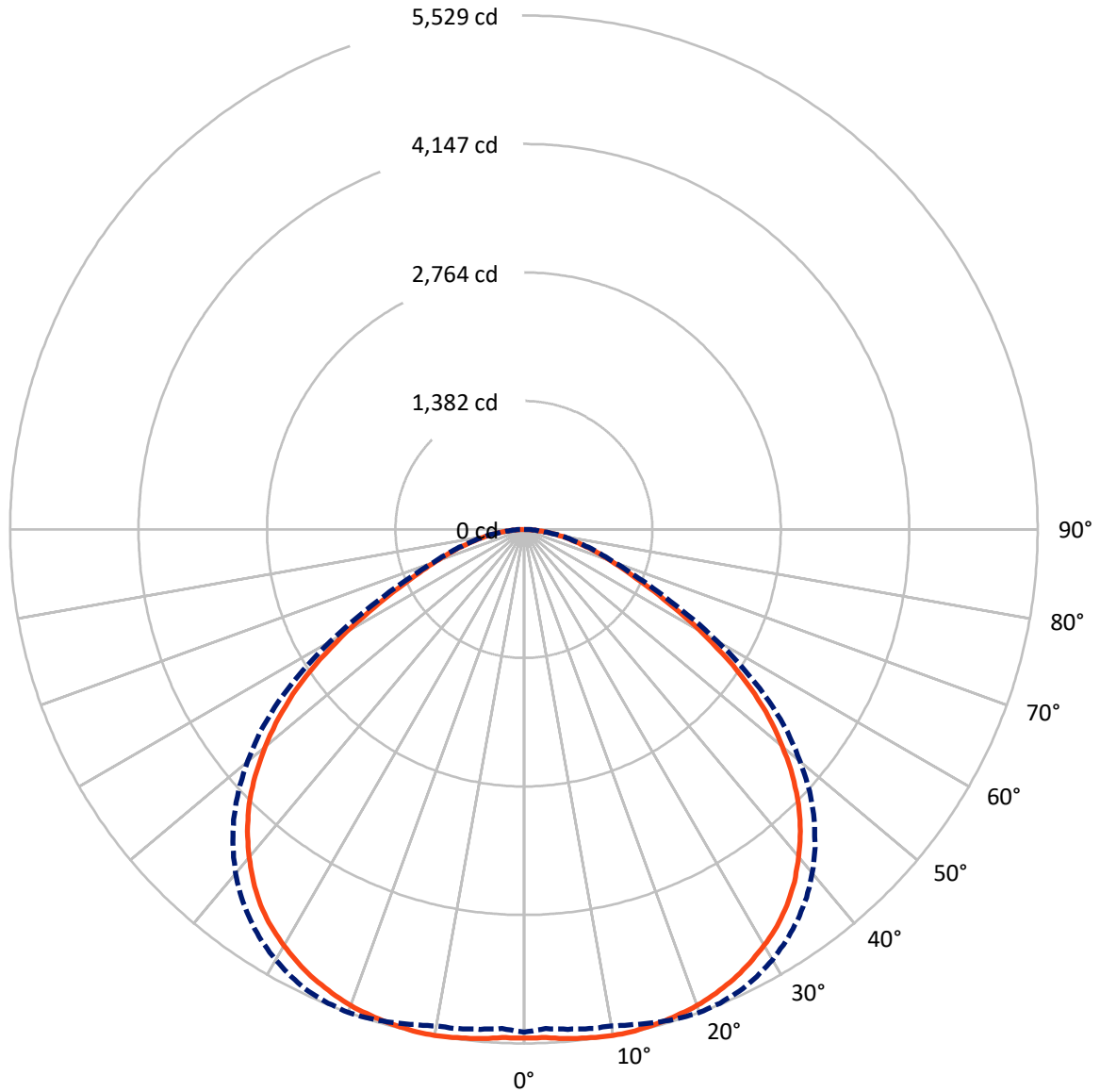
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Lumen Table



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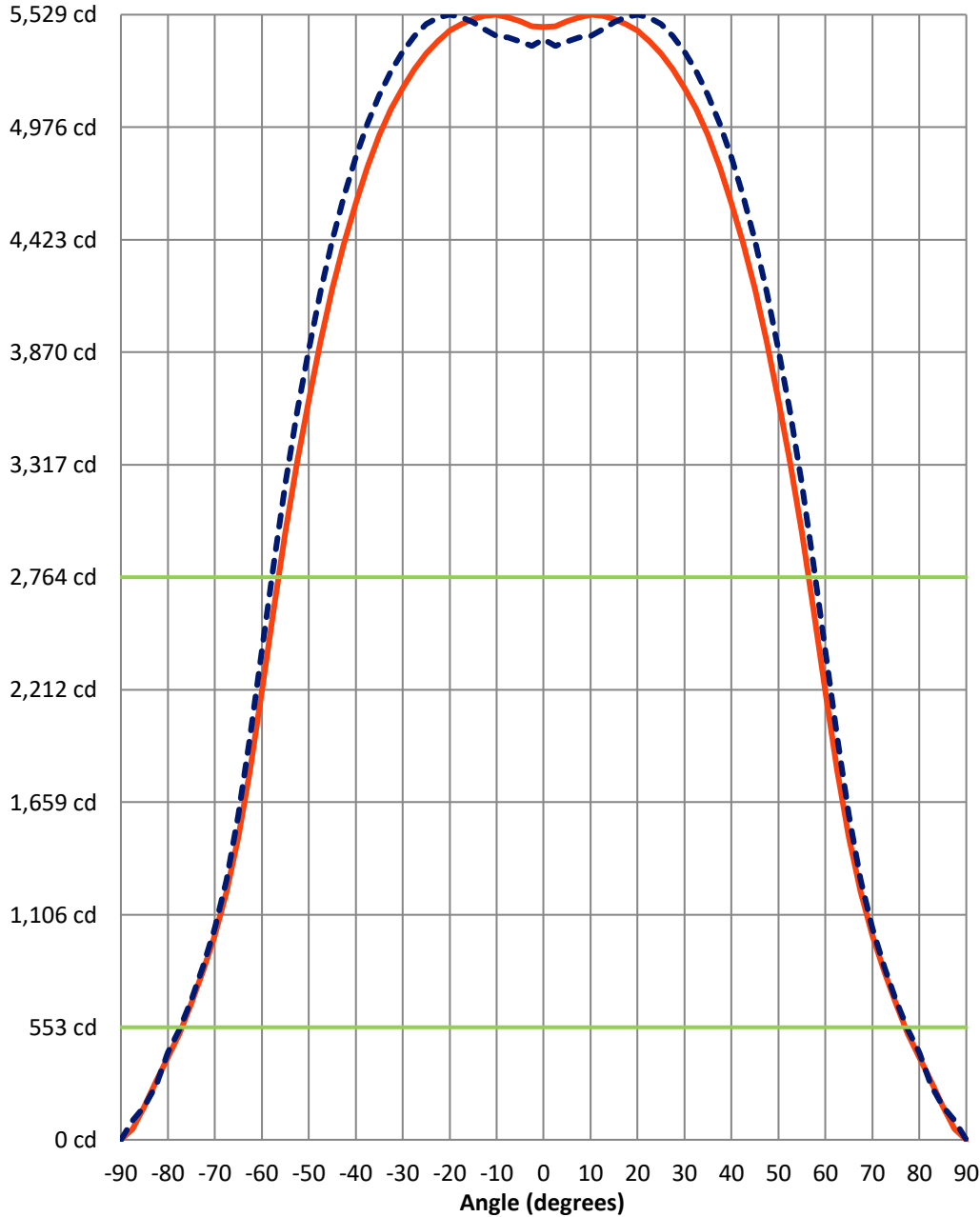
Luminous Intensity Polar Plot



— 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: 10408.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 12477.7
 Efficiency: 73.6%

Spill:
 Lumens: 4484.3
 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°	44.6	48.2	50.0	51.8	53.5	55.3	57.1	55.3	53.5	53.5	51.8
85°	119.6	123.1	124.9	137.4	149.9	157.1	166.0	164.2	164.2	162.4	160.6
82.5°	239.1	249.9	258.8	271.3	278.4	289.1	296.3	290.9	287.3	280.2	274.8
80°	424.8	428.3	430.1	431.9	423.0	421.2	417.6	412.3	405.1	396.2	387.3
77.5°	540.8	544.3	547.9	544.3	542.5	540.8	535.4	530.1	522.9	515.8	505.1
75°	715.7	715.7	715.7	710.3	706.7	701.4	692.5	683.5	671.0	656.8	640.7
72.5°	901.3	899.5	897.7	887.0	878.1	867.4	854.9	844.2	829.9	813.8	792.4
70°	1095.8	1099.4	1101.1	1086.9	1076.2	1061.9	1045.8	1026.2	1004.8	981.6	951.2
67.5°	1363.5	1359.9	1356.4	1336.7	1322.5	1302.8	1279.6	1251.1	1218.9	1183.2	1140.4
65°	1695.4	1700.8	1690.1	1670.5	1643.7	1611.6	1575.9	1534.8	1486.6	1433.1	1372.4
62.5°	2097.0	2105.9	2093.4	2068.4	2034.5	1991.7	1941.7	1882.8	1816.8	1741.9	1666.9
60°	2553.9	2552.1	2528.9	2495.0	2450.4	2396.8	2341.5	2277.3	2202.3	2114.8	2023.8
57.5°	2973.3	2969.7	2941.2	2907.2	2862.6	2805.5	2746.6	2678.8	2600.3	2507.5	2402.2
55°	3349.9	3346.3	3317.7	3282.0	3235.6	3178.5	3125.0	3060.7	2984.0	2885.8	2773.4
52.5°	3683.6	3685.4	3660.4	3621.1	3571.2	3515.8	3464.1	3399.8	3326.6	3228.5	3119.6
50°	3990.6	3988.8	3962.0	3926.3	3879.9	3826.4	3774.6	3710.4	3633.6	3539.0	3433.7
47.5°	4276.1	4272.5	4242.2	4202.9	4154.7	4108.3	4060.2	4003.0	3922.7	3828.1	3722.8
45°	4515.2	4508.1	4477.8	4440.3	4393.9	4352.8	4310.0	4267.2	4181.5	4094.1	3994.1
42.5°	4720.5	4718.7	4688.4	4650.9	4604.5	4568.8	4529.5	4476.0	4404.6	4324.3	4226.1
40°	4916.8	4902.5	4872.2	4836.5	4793.7	4763.3	4724.1	4670.5	4600.9	4522.4	4427.8
37.5°	5063.1	5064.9	5032.8	4993.5	4956.1	4927.5	4891.8	4841.8	4781.2	4704.4	4609.8
35°	5202.4	5193.4	5166.7	5132.7	5098.8	5066.7	5029.2	4986.4	4936.4	4865.0	4775.8
32.5°	5293.4	5305.9	5273.7	5238.0	5218.4	5193.4	5154.2	5109.5	5064.9	4993.5	4913.2
30°	5393.3	5382.6	5357.6	5327.3	5313.0	5296.9	5263.0	5220.2	5168.4	5104.2	5029.2
27.5°	5462.9	5457.6	5427.2	5398.7	5391.5	5377.3	5350.5	5313.0	5261.2	5198.8	5129.2
25°	5493.3	5496.8	5468.3	5452.2	5452.2	5443.3	5421.9	5389.7	5338.0	5280.9	5213.1
22.5°	5507.5	5504.0	5484.3	5480.8	5489.7	5482.5	5473.6	5445.1	5398.7	5352.3	5295.2
20°	5516.5	5491.5	5473.6	5487.9	5498.6	5496.8	5489.7	5471.8	5450.4	5411.2	5361.2
17.5°	5496.8	5480.8	5459.3	5480.8	5504.0	5505.7	5498.6	5487.9	5482.5	5457.6	5412.9
15°	5448.6	5436.1	5439.7	5461.1	5487.9	5496.8	5502.2	5514.7	5507.5	5487.9	5448.6
12.5°	5416.5	5400.5	5416.5	5437.9	5452.2	5457.6	5500.4	5523.6	5523.6	5505.7	5480.8
10°	5407.6	5375.5	5396.9	5416.5	5423.7	5455.8	5491.5	5516.5	5528.9	5514.7	5482.5
7.5°	5389.7	5368.3	5377.3	5386.2	5427.2	5450.4	5470.1	5496.8	5514.7	5512.9	5484.3
5°	5380.8	5354.0	5357.6	5395.1	5423.7	5439.7	5446.9	5470.1	5496.8	5502.2	5480.8
2.5°	5357.6	5345.1	5371.9	5375.5	5396.9	5409.4	5416.5	5437.9	5471.8	5484.3	5475.4
0°	5345.1	5327.3	5309.4	5323.7	5359.4	5386.2	5396.9	5429.0	5468.3	5480.8	5461.1



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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°	50.0	48.2	46.4	44.6	46.4	46.4	46.4	44.6	46.4	44.6	44.6
85°	155.3	148.1	142.8	135.6	128.5	123.1	116.0	108.9	107.1	105.3	101.7
82.5°	267.7	258.8	249.9	239.1	228.4	215.9	203.5	189.2	185.6	182.0	176.7
80°	376.6	364.1	351.6	339.1	328.4	315.9	301.6	285.5	274.8	265.9	255.2
77.5°	490.8	472.9	455.1	433.7	421.2	408.7	394.4	378.4	362.3	348.0	332.0
75°	621.1	601.4	583.6	562.2	539.0	515.8	492.6	471.2	448.0	426.5	405.1
72.5°	765.6	737.1	708.5	681.7	653.2	624.6	594.3	565.7	537.2	508.6	478.3
70°	917.3	881.6	845.9	810.2	772.8	735.3	699.6	663.9	628.2	590.7	556.8
67.5°	1095.8	1054.7	1008.3	958.4	903.0	854.9	808.5	765.6	722.8	680.0	637.1
65°	1318.9	1261.8	1199.3	1131.5	1067.2	1003.0	935.2	870.9	821.0	771.0	722.8
62.5°	1593.7	1513.4	1426.0	1338.5	1260.0	1176.1	1097.6	1013.7	935.2	863.8	804.9
60°	1922.1	1813.2	1706.2	1593.7	1484.9	1370.6	1270.7	1167.2	1069.0	981.6	895.9
57.5°	2284.4	2157.7	2029.2	1891.8	1743.6	1609.8	1474.1	1338.5	1222.5	1106.5	1010.1
55°	2652.0	2518.2	2373.6	2218.4	2056.0	1884.6	1700.8	1549.1	1390.3	1254.6	1129.7
52.5°	3001.8	2862.6	2712.7	2569.9	2375.4	2179.1	1977.4	1777.5	1591.9	1418.8	1267.1
50°	3314.2	3178.5	3034.0	2868.0	2687.7	2478.9	2254.1	2029.2	1809.7	1606.2	1417.0
47.5°	3599.7	3467.6	3323.1	3157.1	2992.9	2760.9	2534.3	2286.2	2041.7	1807.9	1586.6
45°	3867.4	3733.6	3583.6	3424.8	3235.6	3028.6	2794.8	2545.0	2282.6	2020.3	1765.1
42.5°	4110.1	3976.3	3824.6	3660.4	3473.0	3267.8	3041.1	2789.5	2525.3	2239.8	1959.6
40°	4322.5	4192.2	4045.9	3874.5	3699.6	3483.7	3260.6	3021.5	2748.4	2461.1	2152.3
37.5°	4508.1	4386.8	4242.2	4072.6	3887.0	3694.3	3464.1	3224.9	2978.6	2666.3	2350.4
35°	4672.3	4559.9	4411.7	4251.1	4069.1	3865.6	3649.7	3415.9	3150.0	2857.3	2550.3
32.5°	4815.1	4700.9	4565.2	4404.6	4227.9	4037.0	3815.7	3580.1	3328.4	3030.4	2696.7
30°	4936.4	4825.8	4697.3	4545.6	4376.0	4186.9	3970.9	3733.6	3476.6	3180.3	2850.1
27.5°	5041.7	4936.4	4811.5	4670.5	4508.1	4326.1	4108.3	3869.2	3606.8	3321.3	2991.1
25°	5132.7	5031.0	4915.0	4781.2	4620.5	4442.1	4236.8	3987.0	3724.6	3437.3	3110.7
22.5°	5214.8	5116.7	5000.7	4870.4	4724.1	4545.6	4338.6	4090.5	3824.6	3540.8	3219.6
20°	5288.0	5197.0	5082.8	4948.9	4802.6	4622.3	4417.1	4181.5	3913.8	3635.4	3317.7
17.5°	5346.9	5266.6	5152.4	5011.4	4865.0	4690.1	4490.3	4274.3	3990.6	3715.7	3399.8
15°	5388.0	5309.4	5205.9	5063.1	4920.4	4747.3	4547.4	4324.3	4060.2	3780.0	3467.6
12.5°	5416.5	5332.6	5236.3	5104.2	4961.4	4790.1	4595.6	4376.0	4119.0	3837.1	3526.5
10°	5423.7	5346.9	5250.5	5132.7	4993.5	4827.6	4636.6	4418.9	4167.2	3881.7	3574.7
7.5°	5427.2	5354.0	5266.6	5154.2	5016.7	4856.1	4666.9	4452.8	4202.9	3919.2	3610.4
5°	5425.4	5355.8	5277.3	5168.4	5031.0	4872.2	4686.6	4476.0	4227.9	3944.1	3637.2
2.5°	5420.1	5357.6	5284.4	5179.2	5047.1	4890.0	4706.2	4502.8	4254.7	3965.6	3658.6
0°	5434.4	5380.8	5288.0	5175.6	5050.7	4890.0	4704.4	4506.3	4258.3	3963.8	3656.8



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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°	44.6	42.8	42.8	41.0	39.3	37.5	33.9	32.1	28.6	23.2	17.8
85°	96.4	91.0	85.7	82.1	78.5	75.0	69.6	64.2	57.1	46.4	35.7
82.5°	169.5	158.8	148.1	135.6	124.9	114.2	105.3	96.4	85.7	69.6	53.5
80°	242.7	226.7	210.6	192.7	176.7	158.8	142.8	128.5	114.2	92.8	71.4
77.5°	315.9	294.5	271.3	249.9	226.7	203.5	180.3	160.6	139.2	114.2	89.2
75°	383.7	358.7	337.3	307.0	278.4	248.1	217.7	191.0	164.2	133.9	107.1
72.5°	451.5	419.4	389.1	360.5	328.4	290.9	257.0	223.1	189.2	153.5	121.4
70°	519.3	480.1	442.6	408.7	373.0	335.5	294.5	255.2	214.2	171.3	133.9
67.5°	588.9	544.3	501.5	458.7	417.6	374.8	332.0	287.3	239.1	189.2	148.1
65°	665.7	610.4	558.6	510.4	462.2	415.8	367.6	319.5	265.9	208.8	160.6
62.5°	742.4	681.7	621.1	560.4	506.9	455.1	403.3	349.8	290.9	230.2	173.1
60°	824.5	754.9	685.3	617.5	551.5	494.4	437.2	380.1	317.7	249.9	185.6
57.5°	915.5	831.7	753.1	676.4	601.4	533.6	471.2	410.5	340.9	269.5	199.9
55°	1019.1	915.5	822.7	737.1	655.0	572.9	505.1	442.6	367.6	289.1	215.9
52.5°	1127.9	1008.3	895.9	799.5	712.1	619.3	537.2	467.6	394.4	308.8	230.2
50°	1254.6	1102.9	978.0	860.2	762.1	665.7	571.1	496.1	421.2	332.0	244.5
47.5°	1384.9	1217.2	1060.1	931.6	815.6	710.3	610.4	521.1	446.2	353.4	258.8
45°	1536.6	1326.0	1152.9	1001.2	867.4	756.7	649.6	547.9	467.6	374.8	273.1
42.5°	1683.0	1454.5	1249.3	1077.9	926.3	801.3	685.3	576.5	489.0	396.2	285.5
40°	1856.1	1583.0	1342.1	1151.1	985.1	844.2	721.0	606.8	508.6	415.8	298.0
37.5°	2022.0	1713.3	1454.5	1231.4	1042.3	887.0	756.7	635.3	526.5	435.5	314.1
35°	2186.2	1857.9	1561.6	1306.4	1101.1	935.2	792.4	662.1	544.3	451.5	328.4
32.5°	2343.3	1993.5	1670.5	1390.3	1165.4	979.8	824.5	687.1	562.2	465.8	342.7
30°	2489.6	2122.0	1777.5	1475.9	1224.3	1020.8	854.9	712.1	583.6	478.3	356.9
27.5°	2623.5	2246.9	1884.6	1556.2	1279.6	1058.3	887.0	735.3	601.4	490.8	369.4
25°	2744.8	2359.4	1982.8	1629.4	1329.6	1099.4	917.3	758.5	617.5	501.5	380.1
22.5°	2859.1	2462.9	2072.0	1702.6	1390.3	1140.4	945.9	779.9	633.6	512.2	390.8
20°	2959.0	2557.5	2157.7	1775.8	1443.8	1177.9	970.9	799.5	647.8	519.3	401.6
17.5°	3039.3	2641.3	2234.4	1840.0	1490.2	1210.0	992.3	817.4	660.3	528.3	408.7
15°	3110.7	2712.7	2298.7	1895.3	1531.3	1236.8	1011.9	831.7	671.0	533.6	417.6
12.5°	3171.4	2773.4	2354.0	1943.5	1567.0	1260.0	1028.0	842.4	680.0	539.0	423.0
10°	3221.4	2821.6	2400.4	1981.0	1595.5	1277.8	1040.5	853.1	687.1	544.3	428.3
7.5°	3258.8	2857.3	2434.3	2013.1	1618.7	1290.3	1051.2	860.2	694.2	547.9	437.2
5°	3287.4	2887.6	2461.1	2034.5	1636.6	1308.2	1063.7	869.1	701.4	551.5	437.2
2.5°	3308.8	2912.6	2482.5	2052.4	1650.8	1304.6	1063.7	867.4	701.4	551.5	435.5
0°	3305.2	2914.4	2480.7	2052.4	1650.8	1301.0	1063.7	865.6	701.4	551.5	435.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.5	8.9	3.6	0.0
85°	26.8	17.8	8.9	0.0
82.5°	39.3	25.0	12.5	0.0
80°	51.8	33.9	16.1	0.0
77.5°	66.0	42.8	21.4	0.0
75°	78.5	50.0	25.0	0.0
72.5°	91.0	58.9	28.6	0.0
70°	101.7	66.0	32.1	0.0
67.5°	112.4	75.0	37.5	0.0
65°	121.4	82.1	41.0	0.0
62.5°	128.5	91.0	44.6	0.0
60°	137.4	98.2	48.2	0.0
57.5°	144.6	103.5	51.8	0.0
55°	151.7	107.1	55.3	0.0
52.5°	158.8	112.4	58.9	0.0
50°	166.0	117.8	62.5	0.0
47.5°	173.1	121.4	64.2	0.0
45°	183.8	126.7	67.8	0.0
42.5°	192.7	130.3	71.4	0.0
40°	201.7	133.9	73.2	0.0
37.5°	210.6	137.4	76.7	0.0
35°	219.5	141.0	78.5	0.0
32.5°	226.7	144.6	80.3	0.0
30°	233.8	148.1	82.1	0.0
27.5°	240.9	149.9	83.9	0.0
25°	246.3	153.5	85.7	0.0
22.5°	251.6	155.3	87.4	0.0
20°	255.2	157.1	89.2	0.0
17.5°	260.6	158.8	91.0	0.0
15°	262.3	160.6	94.6	0.0
12.5°	265.9	162.4	94.6	0.0
10°	267.7	164.2	94.6	0.0
7.5°	271.3	164.2	94.6	0.0
5°	269.5	164.2	94.6	0.0
2.5°	269.5	164.2	94.6	0.0
0°	267.7	164.2	94.6	0.0

(END OF REPORT)