

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: P628298

Luminaire Tested: **IFLD-S-SA2D-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628298
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

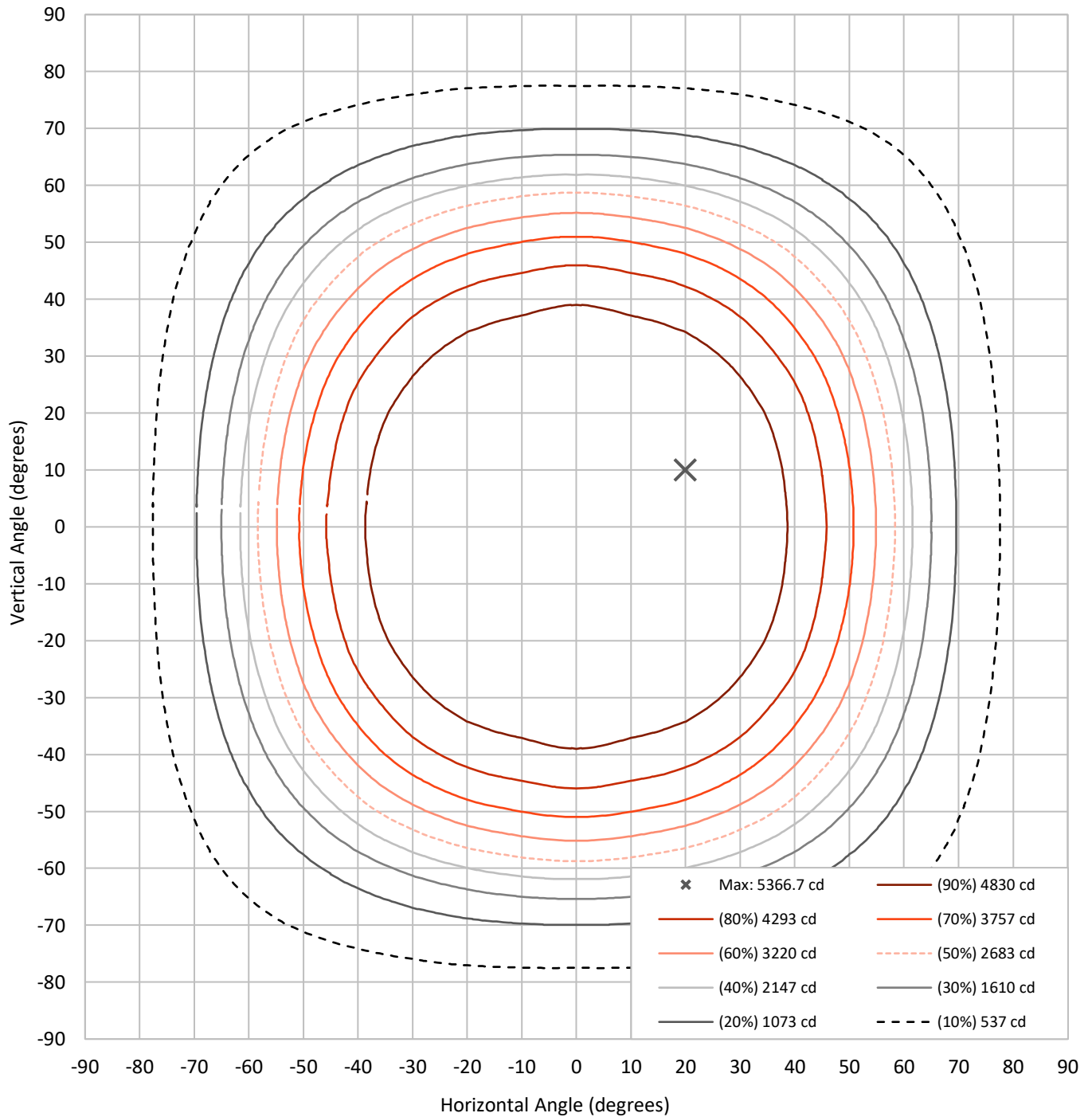
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16464.3 lumens	Max Intensity:	5366.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	132.9 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:	10102.9 lumens	Field Lumens:	12111.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	123.9		
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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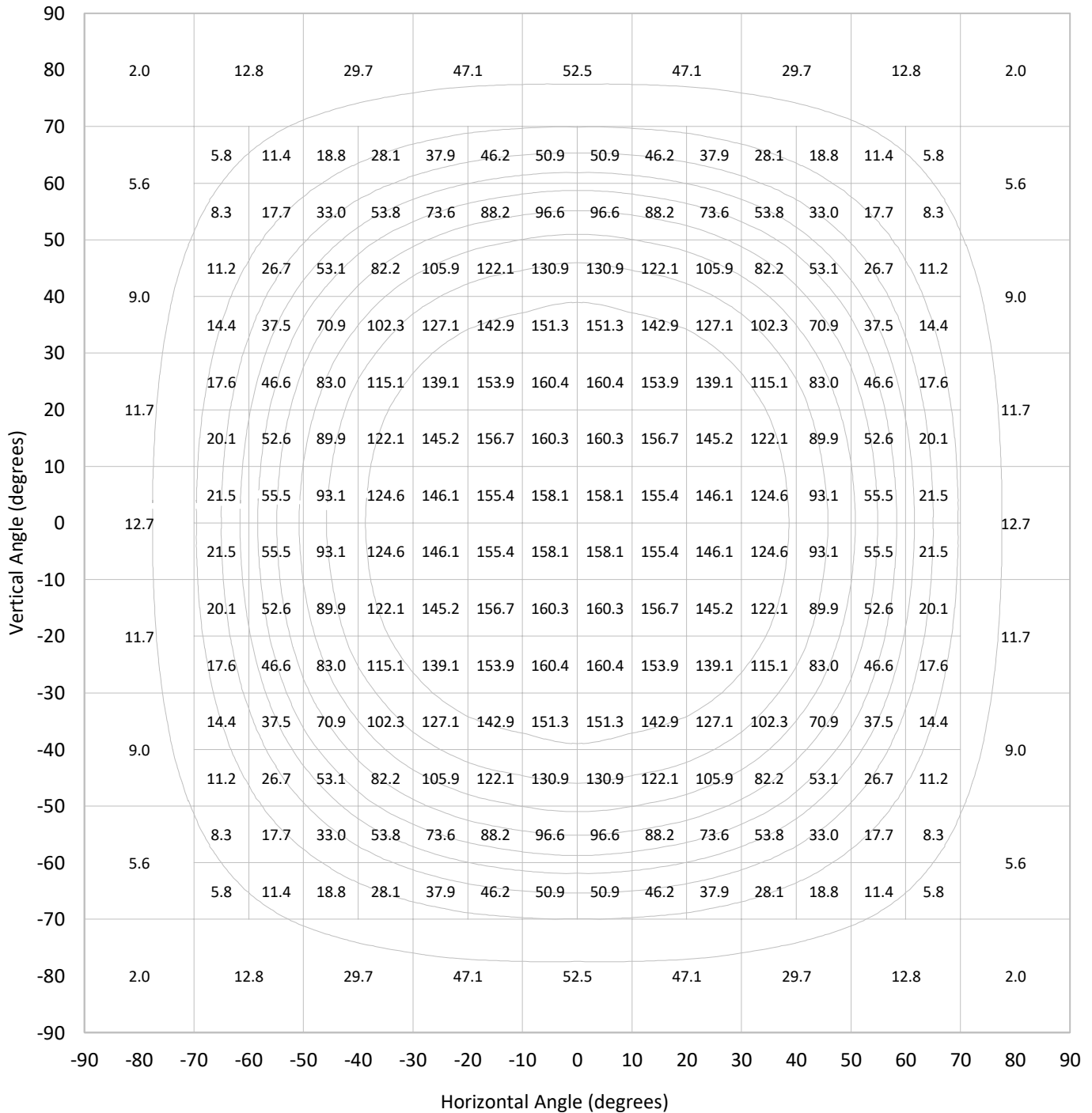
Iso-Candela Plot





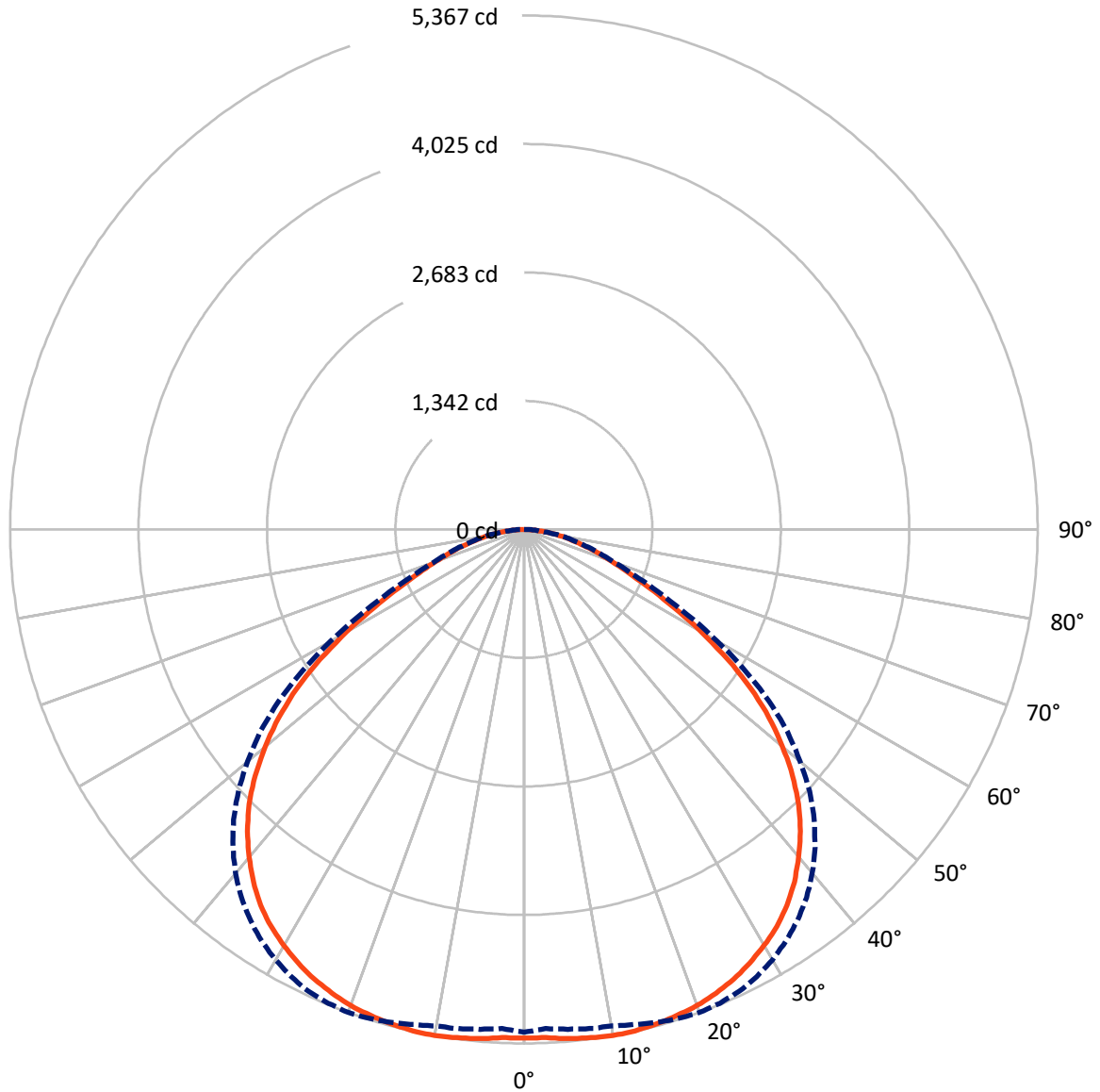
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Lumen Table



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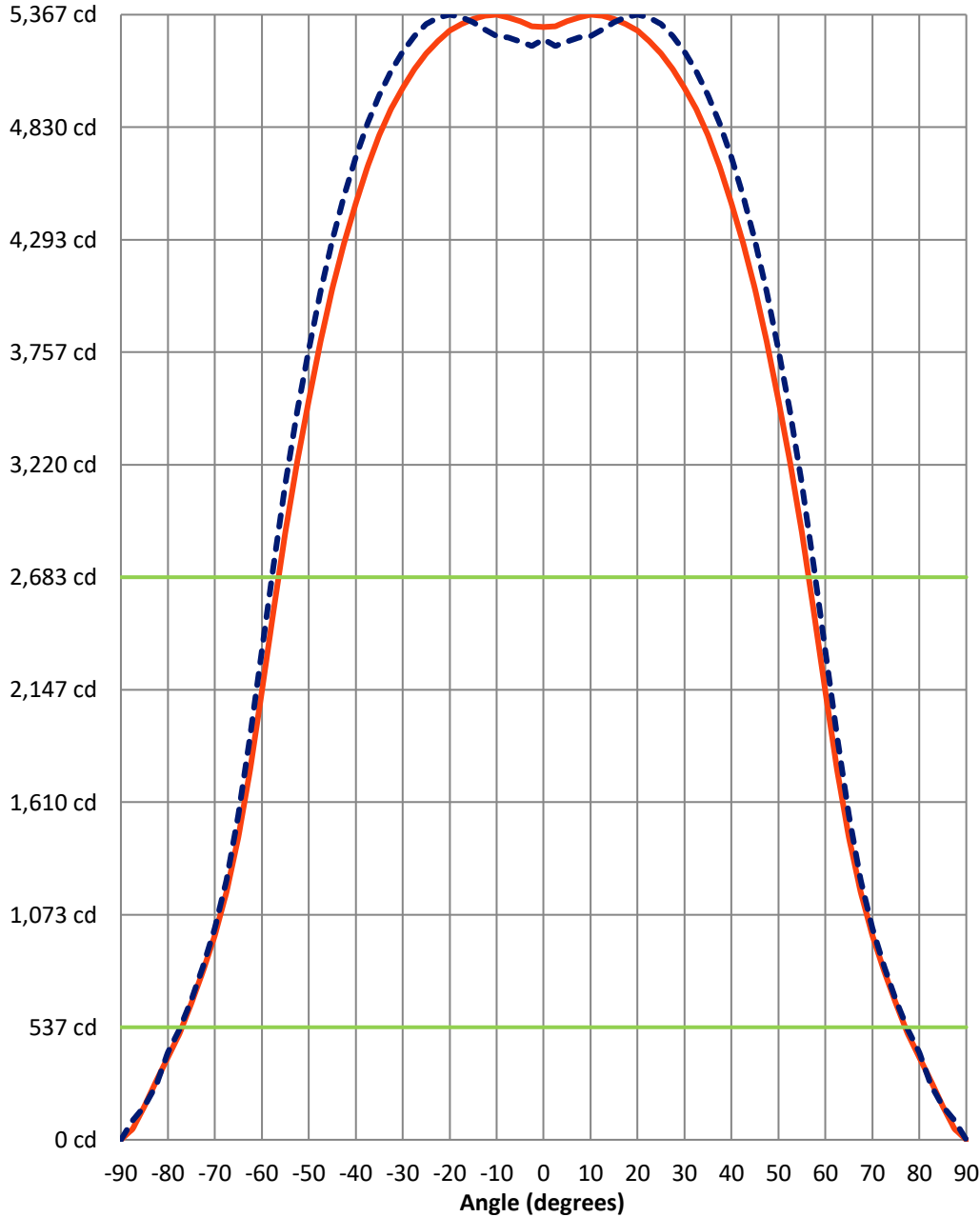
Luminous Intensity Polar Plot



— 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: 10102.9
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 12111.6
 Efficiency: 73.6%

Spill:
 Lumens: 4352.7
 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°	43.3	46.8	48.5	50.2	52.0	53.7	55.4	53.7	52.0	52.0	50.2
85°	116.1	119.5	121.3	133.4	145.5	152.4	161.1	159.4	159.4	157.6	155.9
82.5°	232.1	242.5	251.2	263.3	270.2	280.6	287.6	282.4	278.9	272.0	266.8
80°	412.3	415.8	417.5	419.2	410.6	408.8	405.4	400.2	393.2	384.6	375.9
77.5°	524.9	528.4	531.8	528.4	526.6	524.9	519.7	514.5	507.6	500.6	490.2
75°	694.7	694.7	694.7	689.5	686.0	680.8	672.1	663.5	651.4	637.5	621.9
72.5°	874.8	873.1	871.4	861.0	852.3	841.9	829.8	819.4	805.5	789.9	769.1
70°	1063.6	1067.1	1068.8	1055.0	1044.6	1030.7	1015.1	996.1	975.3	952.8	923.3
67.5°	1323.5	1320.0	1316.6	1297.5	1283.6	1264.6	1242.1	1214.4	1183.2	1148.5	1106.9
65°	1645.7	1650.9	1640.5	1621.4	1595.5	1564.3	1529.6	1489.8	1443.0	1391.0	1332.2
62.5°	2035.5	2044.1	2032.0	2007.8	1974.8	1933.3	1884.8	1827.6	1763.5	1690.7	1618.0
60°	2478.9	2477.2	2454.7	2421.8	2378.5	2326.5	2272.8	2210.4	2137.7	2052.8	1964.4
57.5°	2886.0	2882.6	2854.9	2821.9	2778.6	2723.2	2666.0	2600.2	2524.0	2433.9	2331.7
55°	3251.6	3248.1	3220.4	3185.7	3140.7	3085.3	3033.3	2970.9	2896.4	2801.2	2692.0
52.5°	3575.5	3577.2	3553.0	3514.9	3466.4	3412.7	3362.4	3300.1	3229.0	3133.8	3028.1
50°	3873.5	3871.7	3845.7	3811.1	3766.1	3714.1	3663.8	3601.5	3527.0	3435.2	3333.0
47.5°	4150.6	4147.2	4117.7	4079.6	4032.8	3987.8	3941.0	3885.6	3807.6	3715.8	3613.6
45°	4382.8	4375.8	4346.4	4310.0	4265.0	4225.1	4183.5	4142.0	4058.8	3973.9	3876.9
42.5°	4582.0	4580.2	4550.8	4514.4	4469.4	4434.7	4396.6	4344.6	4275.4	4197.4	4102.1
40°	4772.5	4758.7	4729.2	4694.6	4653.0	4623.5	4585.4	4533.5	4465.9	4389.7	4297.9
37.5°	4914.6	4916.3	4885.1	4847.0	4810.6	4782.9	4748.3	4699.8	4640.9	4566.4	4474.6
35°	5049.7	5041.0	5015.1	4982.1	4949.2	4918.0	4881.7	4840.1	4791.6	4722.3	4635.7
32.5°	5138.0	5150.2	5119.0	5084.3	5065.3	5041.0	5002.9	4959.6	4916.3	4847.0	4769.1
30°	5235.1	5224.7	5200.4	5171.0	5157.1	5141.5	5108.6	5067.0	5016.8	4954.4	4881.7
27.5°	5302.6	5297.4	5268.0	5240.3	5233.3	5219.5	5193.5	5157.1	5106.9	5046.2	4978.7
25°	5332.1	5335.5	5307.8	5292.2	5292.2	5283.6	5262.8	5231.6	5181.4	5125.9	5060.1
22.5°	5345.9	5342.5	5323.4	5319.9	5328.6	5321.7	5313.0	5285.3	5240.3	5195.2	5139.8
20°	5354.6	5330.3	5313.0	5326.9	5337.3	5335.5	5328.6	5311.3	5290.5	5252.4	5203.9
17.5°	5335.5	5319.9	5299.2	5319.9	5342.5	5344.2	5337.3	5326.9	5321.7	5297.4	5254.1
15°	5288.8	5276.6	5280.1	5300.9	5326.9	5335.5	5340.7	5352.9	5345.9	5326.9	5288.8
12.5°	5257.6	5242.0	5257.6	5278.4	5292.2	5297.4	5339.0	5361.5	5361.5	5344.2	5319.9
10°	5248.9	5217.7	5238.5	5257.6	5264.5	5295.7	5330.3	5354.6	5366.7	5352.9	5321.7
7.5°	5231.6	5210.8	5219.5	5228.1	5268.0	5290.5	5309.5	5335.5	5352.9	5351.1	5323.4
5°	5222.9	5196.9	5200.4	5236.8	5264.5	5280.1	5287.0	5309.5	5335.5	5340.7	5319.9
2.5°	5200.4	5188.3	5214.3	5217.7	5238.5	5250.6	5257.6	5278.4	5311.3	5323.4	5314.7
0°	5188.3	5171.0	5153.6	5167.5	5202.1	5228.1	5238.5	5269.7	5307.8	5319.9	5300.9



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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°	48.5	46.8	45.0	43.3	45.0	45.0	45.0	43.3	45.0	43.3	43.3
85°	150.7	143.8	138.6	131.7	124.7	119.5	112.6	105.7	103.9	102.2	98.7
82.5°	259.8	251.2	242.5	232.1	221.7	209.6	197.5	183.6	180.2	176.7	171.5
80°	365.5	353.4	341.3	329.1	318.7	306.6	292.8	277.2	266.8	258.1	247.7
77.5°	476.4	459.1	441.7	421.0	408.8	396.7	382.8	367.3	351.7	337.8	322.2
75°	602.8	583.8	566.5	545.7	523.2	500.6	478.1	457.3	434.8	414.0	393.2
72.5°	743.2	715.4	687.7	661.7	634.0	606.3	576.9	549.1	521.4	493.7	464.3
70°	890.4	855.8	821.1	786.5	750.1	713.7	679.1	644.4	609.8	573.4	540.5
67.5°	1063.6	1023.8	978.8	930.3	876.6	829.8	784.7	743.2	701.6	660.0	618.4
65°	1280.2	1224.7	1164.1	1098.3	1035.9	973.6	907.7	845.4	796.9	748.4	701.6
62.5°	1547.0	1469.0	1384.1	1299.2	1223.0	1141.6	1065.4	984.0	907.7	838.4	781.3
60°	1865.7	1760.0	1656.1	1547.0	1441.3	1330.4	1233.4	1132.9	1037.7	952.8	869.6
57.5°	2217.4	2094.4	1969.6	1836.3	1692.5	1562.5	1430.9	1299.2	1186.6	1074.0	980.5
55°	2574.2	2444.3	2304.0	2153.3	1995.6	1829.3	1650.9	1503.6	1349.5	1217.8	1096.6
52.5°	2913.8	2778.6	2633.1	2494.5	2305.7	2115.2	1919.4	1725.4	1545.2	1377.2	1229.9
50°	3216.9	3085.3	2944.9	2783.8	2608.9	2406.2	2187.9	1969.6	1756.6	1559.1	1375.5
47.5°	3494.1	3365.9	3225.6	3064.5	2905.1	2679.9	2459.9	2219.1	1981.8	1754.8	1540.0
45°	3753.9	3624.0	3478.5	3324.3	3140.7	2939.7	2712.8	2470.3	2215.6	1961.0	1713.3
42.5°	3989.5	3859.6	3712.4	3553.0	3371.1	3171.9	2951.9	2707.6	2451.2	2174.1	1902.1
40°	4195.7	4069.2	3927.2	3760.9	3591.1	3381.5	3164.9	2932.8	2667.8	2388.9	2089.2
37.5°	4375.8	4258.0	4117.7	3953.1	3773.0	3585.9	3362.4	3130.3	2891.2	2588.1	2281.5
35°	4535.2	4426.1	4282.3	4126.4	3949.7	3752.2	3542.6	3315.7	3057.5	2773.4	2475.5
32.5°	4673.8	4562.9	4431.3	4275.4	4103.9	3918.5	3703.7	3475.0	3230.8	2941.5	2617.5
30°	4791.6	4684.2	4559.5	4412.2	4247.6	4064.0	3854.4	3624.0	3374.5	3087.0	2766.5
27.5°	4893.8	4791.6	4670.3	4533.5	4375.8	4199.1	3987.8	3755.7	3501.0	3223.8	2903.4
25°	4982.1	4883.4	4770.8	4640.9	4485.0	4311.7	4112.5	3870.0	3615.3	3336.4	3019.4
22.5°	5061.8	4966.5	4853.9	4727.5	4585.4	4412.2	4211.3	3970.5	3712.4	3436.9	3125.1
20°	5132.8	5044.5	4933.6	4803.7	4661.7	4486.7	4287.5	4058.8	3799.0	3528.7	3220.4
17.5°	5190.0	5112.1	5001.2	4864.3	4722.3	4552.5	4358.5	4148.9	3873.5	3606.7	3300.1
15°	5229.9	5153.6	5053.2	4914.6	4776.0	4608.0	4413.9	4197.4	3941.0	3669.0	3365.9
12.5°	5257.6	5176.2	5082.6	4954.4	4815.8	4649.5	4460.7	4247.6	3998.2	3724.5	3423.1
10°	5264.5	5190.0	5096.5	4982.1	4847.0	4685.9	4500.6	4289.2	4045.0	3767.8	3469.8
7.5°	5268.0	5196.9	5112.1	5002.9	4869.5	4713.6	4530.0	4322.1	4079.6	3804.2	3504.5
5°	5266.2	5198.7	5122.5	5016.8	4883.4	4729.2	4549.1	4344.6	4103.9	3828.4	3530.5
2.5°	5261.0	5200.4	5129.4	5027.2	4899.0	4746.5	4568.1	4370.6	4129.8	3849.2	3551.2
0°	5274.9	5222.9	5132.8	5023.7	4902.5	4746.5	4566.4	4374.1	4133.3	3847.5	3549.5



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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°	43.3	41.6	41.6	39.8	38.1	36.4	32.9	31.2	27.7	22.5	17.3
85°	93.5	88.3	83.2	79.7	76.2	72.8	67.6	62.4	55.4	45.0	34.6
82.5°	164.6	154.2	143.8	131.7	121.3	110.9	102.2	93.5	83.2	67.6	52.0
80°	235.6	220.0	204.4	187.1	171.5	154.2	138.6	124.7	110.9	90.1	69.3
77.5°	306.6	285.8	263.3	242.5	220.0	197.5	175.0	155.9	135.1	110.9	86.6
75°	372.4	348.2	327.4	298.0	270.2	240.8	211.3	185.4	159.4	129.9	103.9
72.5°	438.3	407.1	377.6	349.9	318.7	282.4	249.5	216.5	183.6	149.0	117.8
70°	504.1	466.0	429.6	396.7	362.1	325.7	285.8	247.7	207.9	166.3	129.9
67.5°	571.7	528.4	486.8	445.2	405.4	363.8	322.2	278.9	232.1	183.6	143.8
65°	646.2	592.5	542.2	495.4	448.7	403.6	356.9	310.1	258.1	202.7	155.9
62.5°	720.6	661.7	602.8	543.9	492.0	441.7	391.5	339.5	282.4	223.5	168.0
60°	800.3	732.8	665.2	599.4	535.3	479.9	424.4	369.0	308.4	242.5	180.2
57.5°	888.7	807.3	731.0	656.5	583.8	518.0	457.3	398.4	330.9	261.6	194.0
55°	989.2	888.7	798.6	715.4	635.8	556.1	490.2	429.6	356.9	280.6	209.6
52.5°	1094.8	978.8	869.6	776.1	691.2	601.1	521.4	453.9	382.8	299.7	223.5
50°	1217.8	1070.6	949.3	835.0	739.7	646.2	554.3	481.6	408.8	322.2	237.3
47.5°	1344.3	1181.4	1029.0	904.3	791.7	689.5	592.5	505.8	433.1	343.0	251.2
45°	1491.5	1287.1	1119.1	971.8	841.9	734.5	630.6	531.8	453.9	363.8	265.0
42.5°	1633.6	1411.8	1212.6	1046.3	899.1	777.8	665.2	559.5	474.7	384.6	277.2
40°	1801.6	1536.6	1302.7	1117.3	956.2	819.4	699.9	589.0	493.7	403.6	289.3
37.5°	1962.7	1663.0	1411.8	1195.3	1011.7	861.0	734.5	616.7	511.0	422.7	304.9
35°	2122.1	1803.3	1515.8	1268.1	1068.8	907.7	769.1	642.7	528.4	438.3	318.7
32.5°	2274.5	1935.0	1621.4	1349.5	1131.2	951.0	800.3	666.9	545.7	452.1	332.6
30°	2416.6	2059.7	1725.4	1432.6	1188.4	990.9	829.8	691.2	566.5	464.3	346.5
27.5°	2546.5	2181.0	1829.3	1510.6	1242.1	1027.3	861.0	713.7	583.8	476.4	358.6
25°	2664.3	2290.1	1924.6	1581.6	1290.6	1067.1	890.4	736.2	599.4	486.8	369.0
22.5°	2775.2	2390.6	2011.2	1652.6	1349.5	1106.9	918.1	757.0	615.0	497.2	379.4
20°	2872.2	2482.4	2094.4	1723.7	1401.4	1143.3	942.4	776.1	628.8	504.1	389.8
17.5°	2950.1	2563.8	2168.9	1786.0	1446.5	1174.5	963.2	793.4	641.0	512.8	396.7
15°	3019.4	2633.1	2231.2	1839.7	1486.3	1200.5	982.2	807.3	651.4	518.0	405.4
12.5°	3078.3	2692.0	2284.9	1886.5	1521.0	1223.0	997.8	817.7	660.0	523.2	410.6
10°	3126.8	2738.8	2330.0	1922.9	1548.7	1240.3	1009.9	828.0	666.9	528.4	415.8
7.5°	3163.2	2773.4	2362.9	1954.1	1571.2	1252.5	1020.3	835.0	673.9	531.8	424.4
5°	3190.9	2802.9	2388.9	1974.8	1588.5	1269.8	1032.5	843.6	680.8	535.3	424.4
2.5°	3211.7	2827.1	2409.6	1992.2	1602.4	1266.3	1032.5	841.9	680.8	535.3	422.7
0°	3208.2	2828.9	2407.9	1992.2	1602.4	1262.9	1032.5	840.2	680.8	535.3	422.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.1	8.7	3.5	0.0
85°	26.0	17.3	8.7	0.0
82.5°	38.1	24.3	12.1	0.0
80°	50.2	32.9	15.6	0.0
77.5°	64.1	41.6	20.8	0.0
75°	76.2	48.5	24.3	0.0
72.5°	88.3	57.2	27.7	0.0
70°	98.7	64.1	31.2	0.0
67.5°	109.1	72.8	36.4	0.0
65°	117.8	79.7	39.8	0.0
62.5°	124.7	88.3	43.3	0.0
60°	133.4	95.3	46.8	0.0
57.5°	140.3	100.5	50.2	0.0
55°	147.2	103.9	53.7	0.0
52.5°	154.2	109.1	57.2	0.0
50°	161.1	114.3	60.6	0.0
47.5°	168.0	117.8	62.4	0.0
45°	178.4	123.0	65.8	0.0
42.5°	187.1	126.5	69.3	0.0
40°	195.8	129.9	71.0	0.0
37.5°	204.4	133.4	74.5	0.0
35°	213.1	136.9	76.2	0.0
32.5°	220.0	140.3	78.0	0.0
30°	226.9	143.8	79.7	0.0
27.5°	233.9	145.5	81.4	0.0
25°	239.1	149.0	83.2	0.0
22.5°	244.3	150.7	84.9	0.0
20°	247.7	152.4	86.6	0.0
17.5°	252.9	154.2	88.3	0.0
15°	254.7	155.9	91.8	0.0
12.5°	258.1	157.6	91.8	0.0
10°	259.8	159.4	91.8	0.0
7.5°	263.3	159.4	91.8	0.0
5°	261.6	159.4	91.8	0.0
2.5°	261.6	159.4	91.8	0.0
0°	259.8	159.4	91.8	0.0

(END OF REPORT)