

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: P628487

Luminaire Tested: **IFLD-M-SA4D-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628487
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

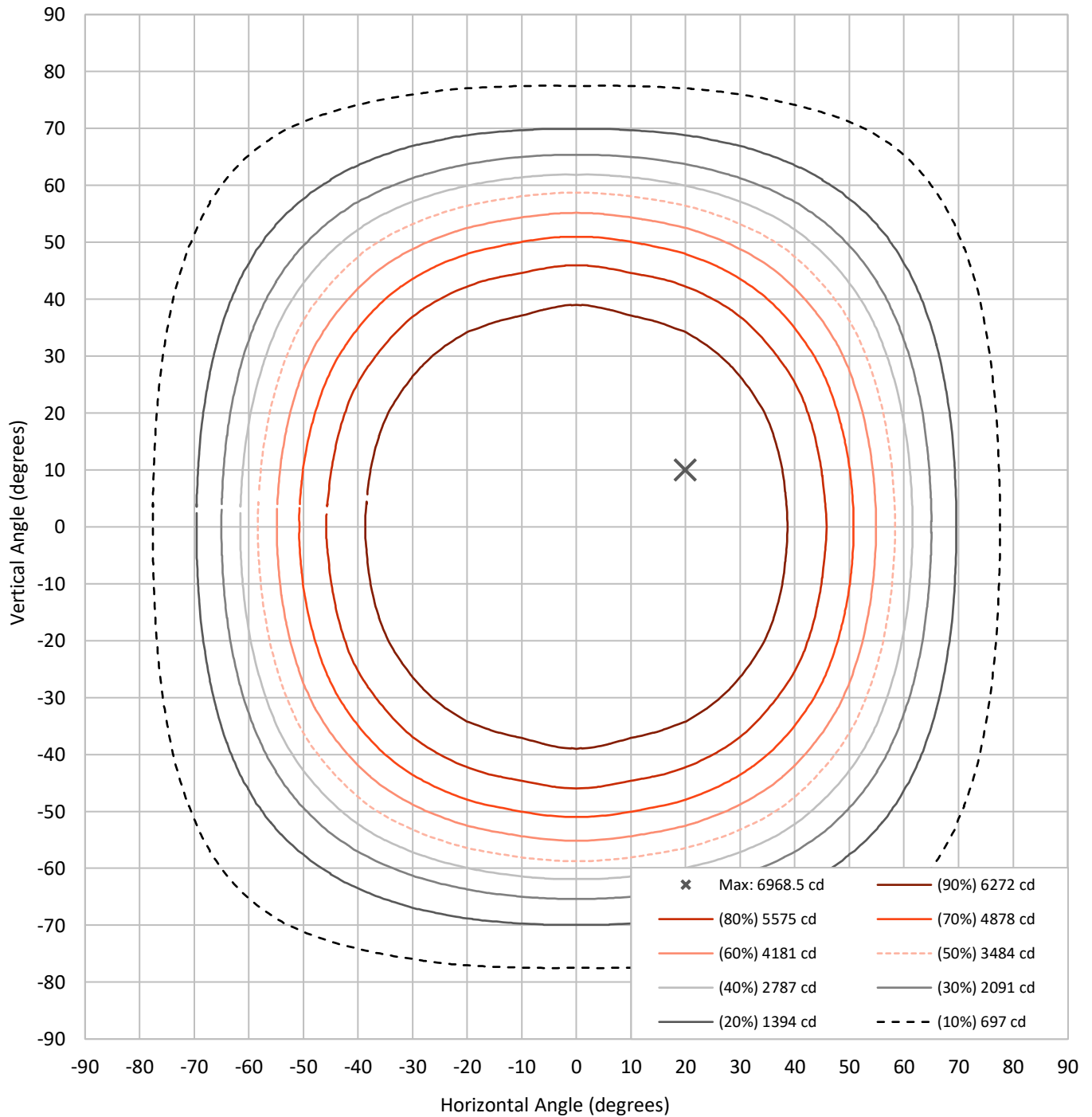
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21378.5 lumens	Max Intensity:	6968.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	85.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' 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:	13118.3 lumens	Field Lumens:	15726.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	249.7		
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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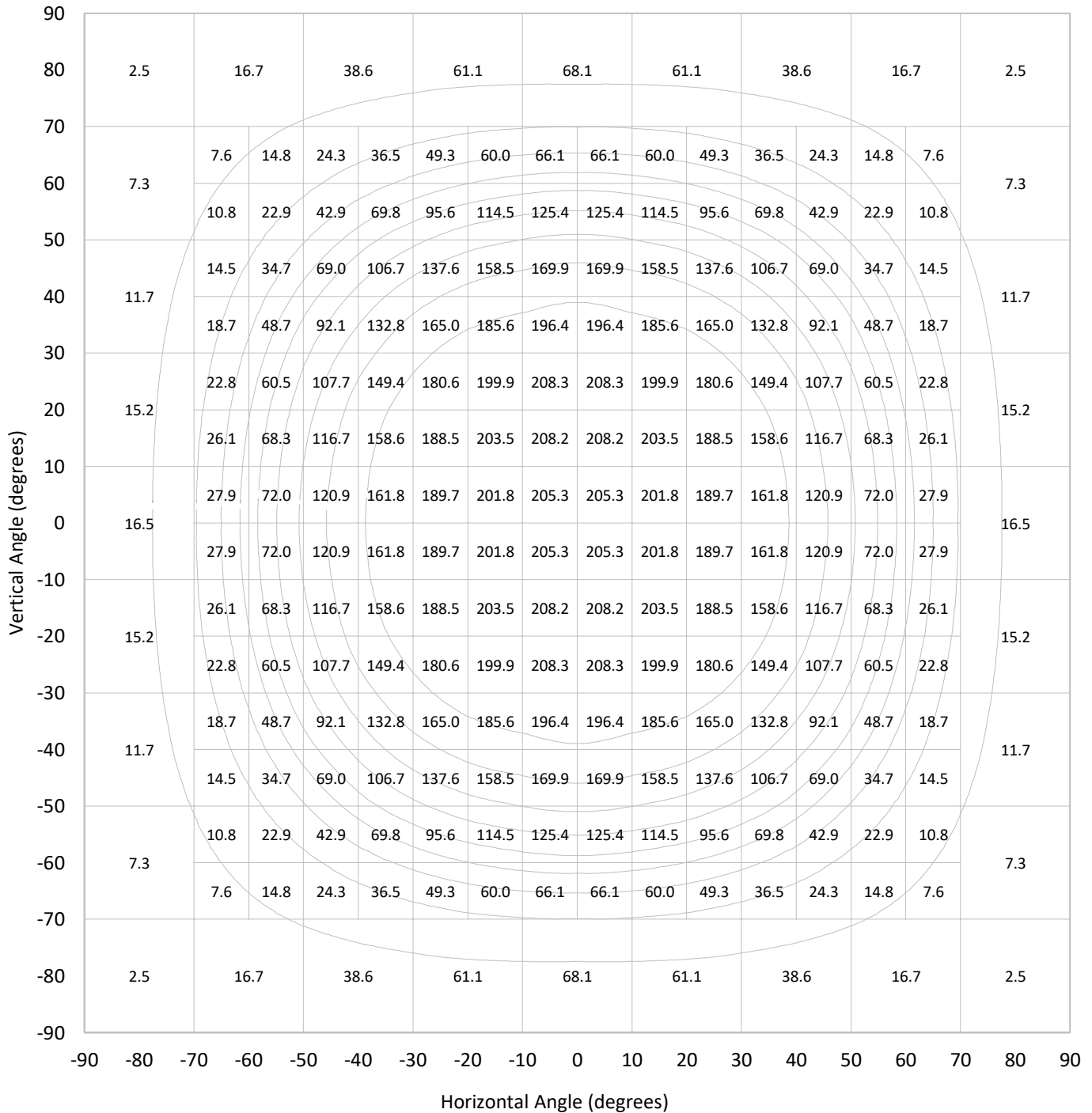
Iso-Candela Plot





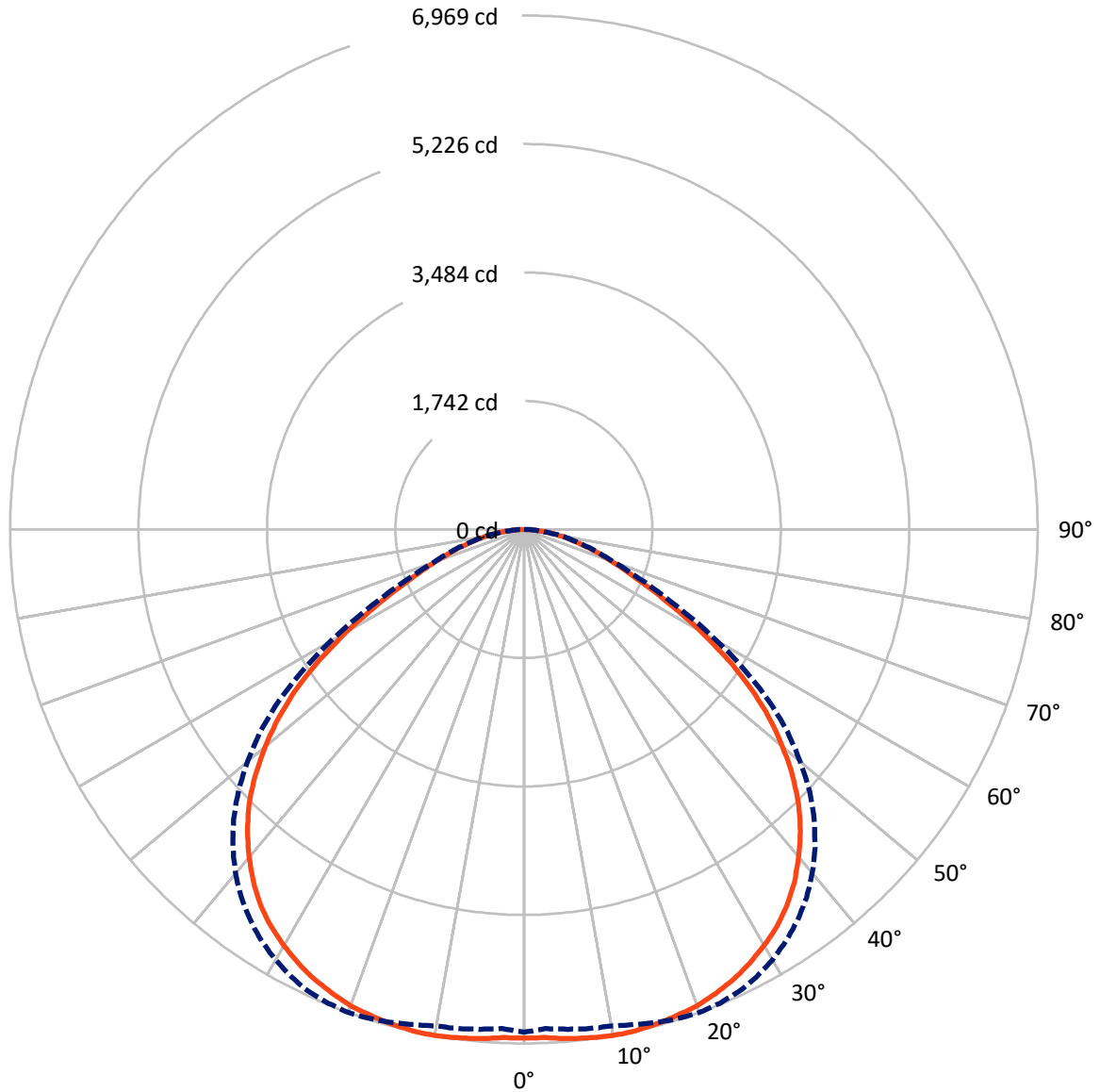
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Lumen Table



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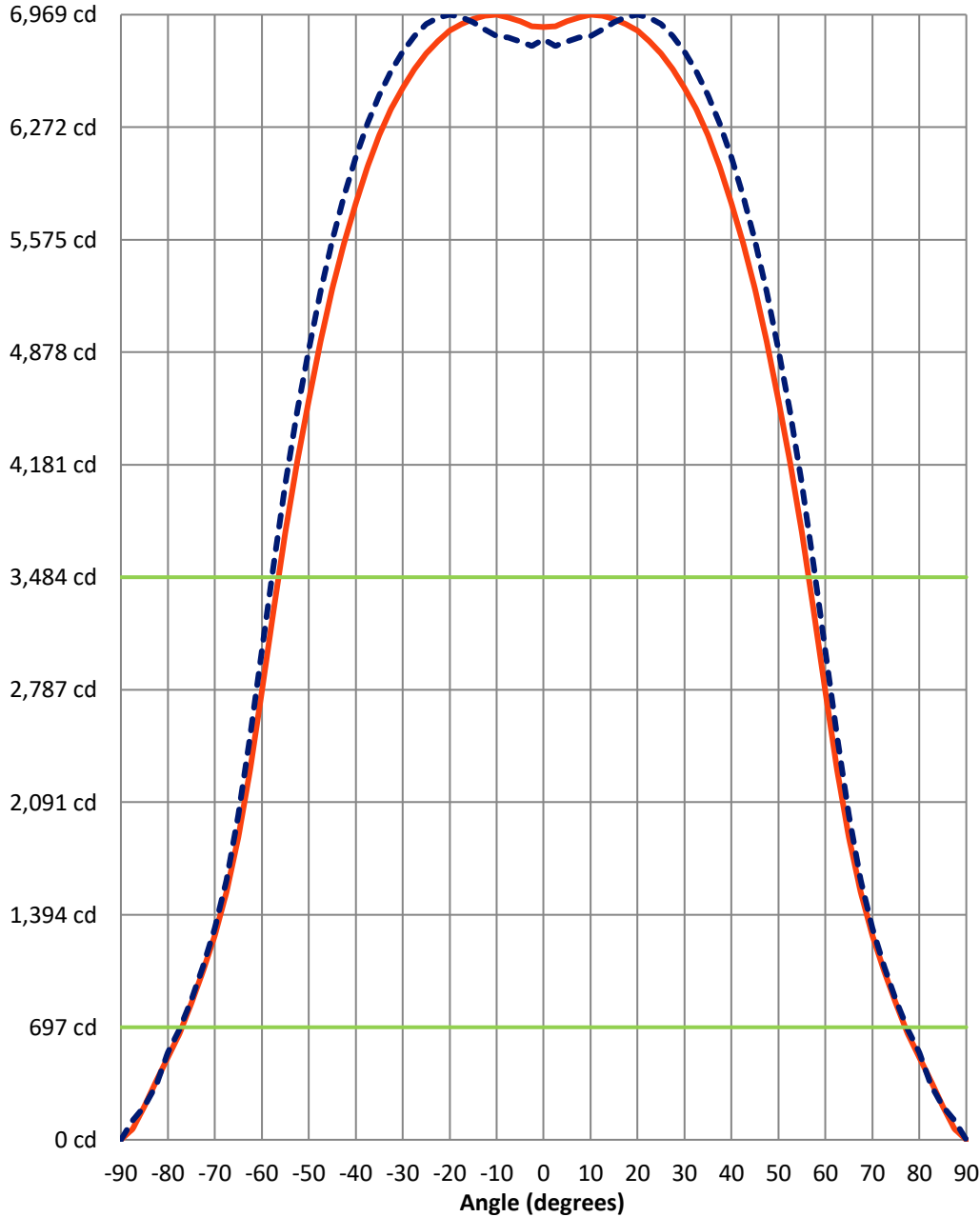
Luminous Intensity Polar Plot



— 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: 13118.3
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 15726.6
Efficiency: 73.6%

Spill:
Lumens: 5651.9
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°	56.2	60.7	63.0	65.2	67.5	69.7	72.0	69.7	67.5	67.5	65.2
85°	150.7	155.2	157.5	173.2	188.9	197.9	209.2	206.9	206.9	204.7	202.4
82.5°	301.4	314.9	326.2	341.9	350.9	364.4	373.4	366.6	362.1	353.1	346.4
80°	535.3	539.8	542.1	544.3	533.1	530.8	526.4	519.6	510.6	499.4	488.1
77.5°	681.6	686.1	690.6	686.1	683.8	681.6	674.8	668.1	659.1	650.1	636.6
75°	902.0	902.0	902.0	895.2	890.7	884.0	872.8	861.5	845.8	827.8	807.5
72.5°	1135.9	1133.7	1131.4	1117.9	1106.7	1093.2	1077.4	1063.9	1046.0	1025.7	998.7
70°	1381.1	1385.6	1387.9	1369.9	1356.4	1338.4	1318.1	1293.4	1266.4	1237.1	1198.9
67.5°	1718.5	1714.0	1709.5	1684.8	1666.8	1642.0	1612.8	1576.8	1536.3	1491.3	1437.3
65°	2136.9	2143.6	2130.1	2105.4	2071.7	2031.2	1986.2	1934.5	1873.7	1806.2	1729.8
62.5°	2643.0	2654.2	2638.5	2607.0	2564.3	2510.3	2447.3	2373.1	2289.9	2195.4	2100.9
60°	3218.8	3216.6	3187.3	3144.6	3088.4	3020.9	2951.2	2870.2	2775.7	2665.5	2550.8
57.5°	3747.4	3742.9	3706.9	3664.2	3608.0	3536.0	3461.8	3376.3	3277.3	3160.4	3027.6
55°	4222.1	4217.6	4181.6	4136.6	4078.1	4006.1	3938.6	3857.7	3760.9	3637.2	3495.5
52.5°	4642.7	4644.9	4613.4	4564.0	4501.0	4431.2	4366.0	4285.0	4192.8	4069.1	3931.9
50°	5029.6	5027.3	4993.6	4948.6	4890.1	4822.6	4757.4	4676.4	4579.7	4460.5	4327.8
47.5°	5389.5	5385.0	5346.7	5297.2	5236.5	5178.0	5117.3	5045.3	4944.1	4824.9	4692.2
45°	5690.9	5681.9	5643.7	5596.4	5537.9	5486.2	5432.2	5378.2	5270.3	5160.0	5034.1
42.5°	5949.6	5947.3	5909.1	5861.8	5803.4	5758.4	5708.9	5641.4	5551.4	5450.2	5326.5
40°	6197.0	6179.0	6140.8	6095.8	6041.8	6003.5	5954.1	5886.6	5798.9	5699.9	5580.7
37.5°	6381.4	6383.7	6343.2	6293.7	6246.5	6210.5	6165.5	6102.5	6026.0	5929.3	5810.1
35°	6556.9	6545.6	6511.9	6469.2	6426.4	6385.9	6338.7	6284.7	6221.7	6131.8	6019.3
32.5°	6671.6	6687.4	6646.9	6601.9	6577.1	6545.6	6496.2	6439.9	6383.7	6293.7	6192.5
30°	6797.6	6784.1	6752.6	6714.3	6696.4	6676.1	6633.4	6579.4	6514.2	6433.2	6338.7
27.5°	6885.3	6878.6	6840.3	6804.3	6795.3	6777.3	6743.6	6696.4	6631.1	6552.4	6464.7
25°	6923.5	6928.0	6892.0	6871.8	6871.8	6860.6	6833.6	6793.1	6727.8	6655.9	6570.4
22.5°	6941.5	6937.0	6912.3	6907.8	6919.0	6910.0	6898.8	6862.8	6804.3	6745.8	6673.9
20°	6952.8	6921.3	6898.8	6916.8	6930.3	6928.0	6919.0	6896.5	6869.6	6820.1	6757.1
17.5°	6928.0	6907.8	6880.8	6907.8	6937.0	6939.3	6930.3	6916.8	6910.0	6878.6	6822.3
15°	6867.3	6851.6	6856.1	6883.0	6916.8	6928.0	6934.8	6950.5	6941.5	6916.8	6867.3
12.5°	6826.8	6806.6	6826.8	6853.8	6871.8	6878.6	6932.5	6961.8	6961.8	6939.3	6907.8
10°	6815.6	6775.1	6802.1	6826.8	6835.8	6876.3	6921.3	6952.8	6968.5	6950.5	6910.0
7.5°	6793.1	6766.1	6777.3	6788.6	6840.3	6869.6	6894.3	6928.0	6950.5	6948.3	6912.3
5°	6781.8	6748.1	6752.6	6799.8	6835.8	6856.1	6865.1	6894.3	6928.0	6934.8	6907.8
2.5°	6752.6	6736.8	6770.6	6775.1	6802.1	6817.8	6826.8	6853.8	6896.5	6912.3	6901.0
0°	6736.8	6714.3	6691.9	6709.8	6754.8	6788.6	6802.1	6842.6	6892.0	6907.8	6883.0



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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°	63.0	60.7	58.5	56.2	58.5	58.5	58.5	56.2	58.5	56.2	56.2
85°	195.7	186.7	179.9	171.0	162.0	155.2	146.2	137.2	135.0	132.7	128.2
82.5°	337.4	326.2	314.9	301.4	287.9	272.2	256.4	238.4	233.9	229.4	222.7
80°	474.6	458.9	443.1	427.4	413.9	398.1	380.1	359.9	346.4	335.2	321.7
77.5°	618.6	596.1	573.6	546.6	530.8	515.1	497.1	476.9	456.6	438.6	418.4
75°	782.8	758.0	735.5	708.5	679.3	650.1	620.8	593.8	564.6	537.6	510.6
72.5°	965.0	929.0	893.0	859.3	823.3	787.3	749.0	713.0	677.1	641.1	602.8
70°	1156.2	1111.2	1066.2	1021.2	974.0	926.7	881.8	836.8	791.8	744.5	701.8
67.5°	1381.1	1329.4	1270.9	1207.9	1138.2	1077.4	1019.0	965.0	911.0	857.0	803.0
65°	1662.3	1590.3	1511.6	1426.1	1345.1	1264.1	1178.7	1097.7	1034.7	971.7	911.0
62.5°	2008.7	1907.5	1797.2	1687.0	1588.0	1482.3	1383.4	1277.6	1178.7	1088.7	1014.5
60°	2422.6	2285.4	2150.4	2008.7	1871.5	1727.5	1601.5	1471.1	1347.4	1237.1	1129.2
57.5°	2879.2	2719.5	2557.5	2384.3	2197.6	2028.9	1858.0	1687.0	1540.8	1394.6	1273.1
55°	3342.6	3173.9	2991.7	2796.0	2591.3	2375.3	2143.6	1952.4	1752.3	1581.3	1423.8
52.5°	3783.4	3608.0	3419.0	3239.1	2993.9	2746.5	2492.3	2240.4	2006.4	1788.2	1597.0
50°	4177.1	4006.1	3823.9	3614.7	3387.5	3124.4	2840.9	2557.5	2280.9	2024.4	1786.0
47.5°	4537.0	4370.5	4188.3	3979.1	3772.2	3479.8	3194.1	2881.4	2573.3	2278.6	1999.7
45°	4874.4	4705.7	4516.7	4316.5	4078.1	3817.2	3522.5	3207.6	2876.9	2546.3	2224.6
42.5°	5180.3	5011.6	4820.4	4613.4	4377.3	4118.6	3832.9	3515.8	3182.8	2822.9	2469.8
40°	5448.0	5283.8	5099.3	4883.4	4662.9	4390.8	4109.6	3808.2	3464.0	3101.9	2712.7
37.5°	5681.9	5528.9	5346.7	5133.0	4899.1	4656.2	4366.0	4064.6	3754.2	3360.5	2962.4
35°	5888.8	5747.1	5560.4	5358.0	5128.5	4872.1	4599.9	4305.3	3970.1	3601.2	3214.3
32.5°	6068.8	5924.8	5753.9	5551.4	5328.7	5088.1	4809.1	4512.2	4195.1	3819.4	3398.8
30°	6221.7	6082.3	5920.3	5729.1	5515.4	5277.0	5004.8	4705.7	4381.8	4008.4	3592.2
27.5°	6354.4	6221.7	6064.3	5886.6	5681.9	5452.5	5178.0	4876.6	4546.0	4186.1	3769.9
25°	6469.2	6341.0	6194.7	6026.0	5823.6	5598.7	5340.0	5025.1	4694.4	4332.3	3920.6
22.5°	6572.6	6448.9	6302.7	6138.5	5954.1	5729.1	5468.2	5155.5	4820.4	4462.7	4057.8
20°	6664.9	6550.1	6406.2	6237.5	6053.0	5825.8	5567.2	5270.3	4932.9	4582.0	4181.6
17.5°	6739.1	6637.9	6493.9	6316.2	6131.8	5911.3	5659.4	5387.2	5029.6	4683.2	4285.0
15°	6790.8	6691.9	6561.4	6381.4	6201.5	5983.3	5731.4	5450.2	5117.3	4764.1	4370.5
12.5°	6826.8	6721.1	6599.6	6433.2	6253.2	6037.3	5792.1	5515.4	5191.5	4836.1	4444.7
10°	6835.8	6739.1	6617.6	6469.2	6293.7	6084.5	5843.8	5569.4	5252.3	4892.4	4505.5
7.5°	6840.3	6748.1	6637.9	6496.2	6323.0	6120.5	5882.1	5612.2	5297.2	4939.6	4550.5
5°	6838.1	6750.3	6651.4	6514.2	6341.0	6140.8	5906.8	5641.4	5328.7	4971.1	4584.2
2.5°	6831.3	6752.6	6660.4	6527.6	6361.2	6163.3	5931.6	5675.1	5362.5	4998.1	4611.2
0°	6849.3	6781.8	6664.9	6523.2	6365.7	6163.3	5929.3	5679.6	5367.0	4995.8	4608.9



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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°	56.2	54.0	54.0	51.7	49.5	47.2	42.7	40.5	36.0	29.2	22.5
85°	121.5	114.7	108.0	103.5	99.0	94.5	87.7	81.0	72.0	58.5	45.0
82.5°	213.7	200.2	186.7	171.0	157.5	144.0	132.7	121.5	108.0	87.7	67.5
80°	305.9	285.7	265.4	242.9	222.7	200.2	179.9	162.0	144.0	117.0	90.0
77.5°	398.1	371.1	341.9	314.9	285.7	256.4	227.2	202.4	175.5	144.0	112.5
75°	483.6	452.1	425.1	386.9	350.9	312.7	274.4	240.7	206.9	168.7	135.0
72.5°	569.1	528.6	490.4	454.4	413.9	366.6	323.9	281.2	238.4	193.4	153.0
70°	654.6	605.1	557.8	515.1	470.1	422.9	371.1	321.7	269.9	215.9	168.7
67.5°	742.3	686.1	632.1	578.1	526.4	472.4	418.4	362.1	301.4	238.4	186.7
65°	839.0	769.3	704.1	643.3	582.6	524.1	463.4	402.6	335.2	263.2	202.4
62.5°	935.7	859.3	782.8	706.3	638.8	573.6	508.4	440.9	366.6	290.2	218.2
60°	1039.2	951.5	863.8	778.3	695.1	623.1	551.1	479.1	400.4	314.9	233.9
57.5°	1153.9	1048.2	949.2	852.5	758.0	672.6	593.8	517.4	429.6	339.7	251.9
55°	1284.4	1153.9	1037.0	929.0	825.5	722.0	636.6	557.8	463.4	364.4	272.2
52.5°	1421.6	1270.9	1129.2	1007.7	897.5	780.5	677.1	589.3	497.1	389.1	290.2
50°	1581.3	1390.1	1232.7	1084.2	960.5	839.0	719.8	625.3	530.8	418.4	308.2
47.5°	1745.5	1534.1	1336.1	1174.2	1028.0	895.2	769.3	656.8	562.3	445.4	326.2
45°	1936.7	1671.3	1453.1	1261.9	1093.2	953.7	818.8	690.6	589.3	472.4	344.2
42.5°	2121.1	1833.2	1574.6	1358.6	1167.4	1010.0	863.8	726.5	616.3	499.4	359.9
40°	2339.3	1995.2	1691.5	1450.8	1241.6	1063.9	908.7	764.8	641.1	524.1	375.6
37.5°	2548.5	2159.4	1833.2	1552.1	1313.6	1117.9	953.7	800.8	663.6	548.8	395.9
35°	2755.5	2341.6	1968.2	1646.5	1387.9	1178.7	998.7	834.5	686.1	569.1	413.9
32.5°	2953.4	2512.5	2105.4	1752.3	1468.8	1234.9	1039.2	866.0	708.5	587.1	431.9
30°	3137.9	2674.5	2240.4	1860.2	1543.1	1286.6	1077.4	897.5	735.5	602.8	449.9
27.5°	3306.6	2831.9	2375.3	1961.4	1612.8	1333.9	1117.9	926.7	758.0	618.6	465.6
25°	3459.5	2973.7	2499.0	2053.7	1675.8	1385.6	1156.2	956.0	778.3	632.1	479.1
22.5°	3603.5	3104.1	2611.5	2145.9	1752.3	1437.3	1192.2	983.0	798.5	645.6	492.6
20°	3729.4	3223.3	2719.5	2238.1	1819.7	1484.6	1223.7	1007.7	816.5	654.6	506.1
17.5°	3830.7	3329.1	2816.2	2319.1	1878.2	1525.1	1250.6	1030.2	832.3	665.8	515.1
15°	3920.6	3419.0	2897.2	2388.8	1930.0	1558.8	1275.4	1048.2	845.8	672.6	526.4
12.5°	3997.1	3495.5	2966.9	2449.6	1974.9	1588.0	1295.6	1061.7	857.0	679.3	533.1
10°	4060.1	3556.2	3025.4	2496.8	2010.9	1610.5	1311.4	1075.2	866.0	686.1	539.8
7.5°	4107.3	3601.2	3068.1	2537.3	2040.2	1626.3	1324.9	1084.2	875.0	690.6	551.1
5°	4143.3	3639.5	3101.9	2564.3	2062.7	1648.8	1340.6	1095.4	884.0	695.1	551.1
2.5°	4170.3	3671.0	3128.9	2586.8	2080.7	1644.3	1340.6	1093.2	884.0	695.1	548.8
0°	4165.8	3673.2	3126.6	2586.8	2080.7	1639.8	1340.6	1090.9	884.0	695.1	548.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.7	11.2	4.5	0.0
85°	33.7	22.5	11.2	0.0
82.5°	49.5	31.5	15.7	0.0
80°	65.2	42.7	20.2	0.0
77.5°	83.2	54.0	27.0	0.0
75°	99.0	63.0	31.5	0.0
72.5°	114.7	74.2	36.0	0.0
70°	128.2	83.2	40.5	0.0
67.5°	141.7	94.5	47.2	0.0
65°	153.0	103.5	51.7	0.0
62.5°	162.0	114.7	56.2	0.0
60°	173.2	123.7	60.7	0.0
57.5°	182.2	130.5	65.2	0.0
55°	191.2	135.0	69.7	0.0
52.5°	200.2	141.7	74.2	0.0
50°	209.2	148.5	78.7	0.0
47.5°	218.2	153.0	81.0	0.0
45°	231.7	159.7	85.5	0.0
42.5°	242.9	164.2	90.0	0.0
40°	254.2	168.7	92.2	0.0
37.5°	265.4	173.2	96.7	0.0
35°	276.7	177.7	99.0	0.0
32.5°	285.7	182.2	101.2	0.0
30°	294.7	186.7	103.5	0.0
27.5°	303.7	188.9	105.7	0.0
25°	310.4	193.4	108.0	0.0
22.5°	317.2	195.7	110.2	0.0
20°	321.7	197.9	112.5	0.0
17.5°	328.4	200.2	114.7	0.0
15°	330.7	202.4	119.2	0.0
12.5°	335.2	204.7	119.2	0.0
10°	337.4	206.9	119.2	0.0
7.5°	341.9	206.9	119.2	0.0
5°	339.7	206.9	119.2	0.0
2.5°	339.7	206.9	119.2	0.0
0°	337.4	206.9	119.2	0.0

(END OF REPORT)