

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: P628195

Luminaire Tested: **IFLD-M-SA4B-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628195
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

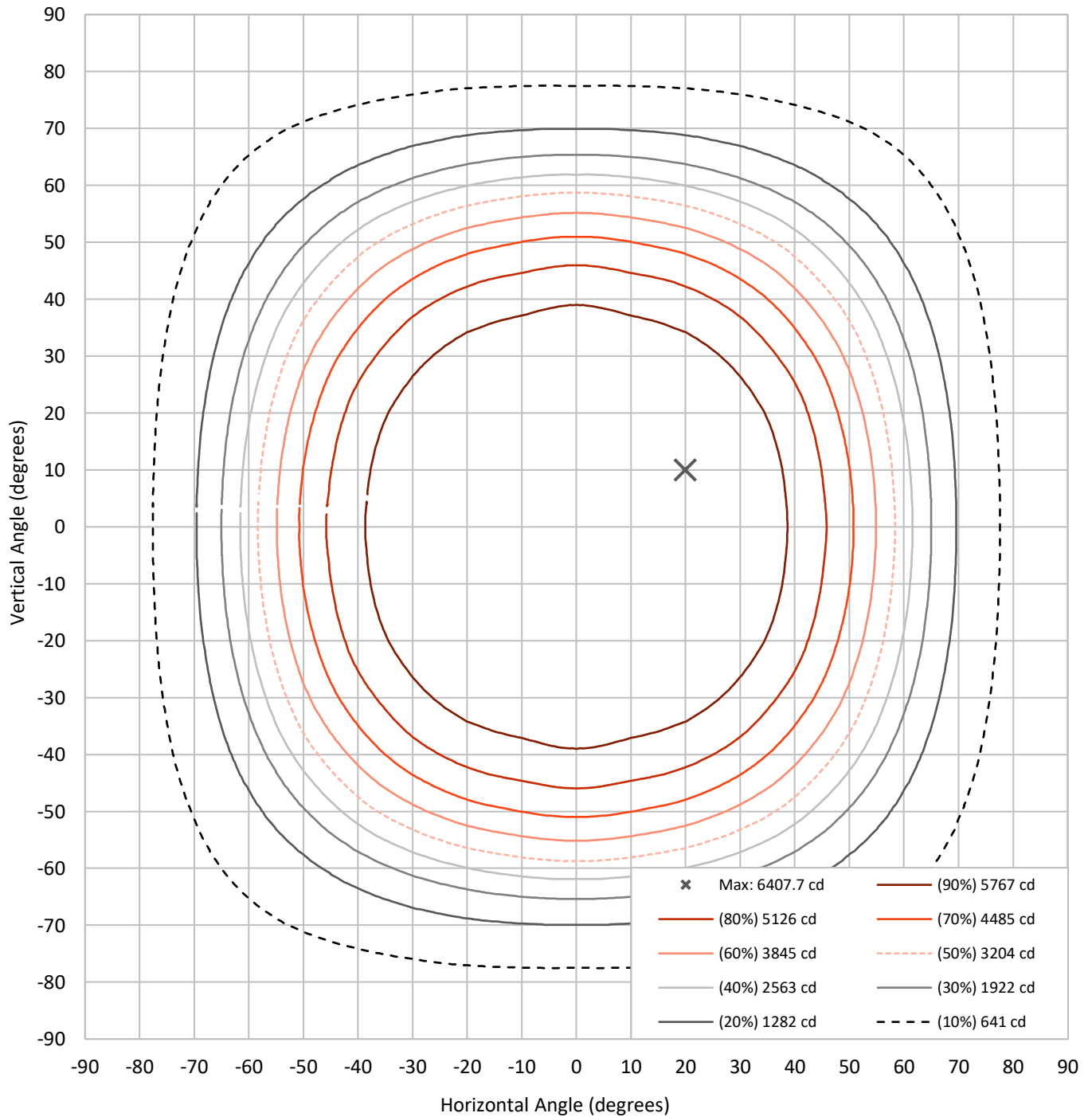
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19657.8 lumens	Max Intensity:	6407.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	118.3 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:	12062.4 lumens	Field Lumens:	14460.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	166.1		
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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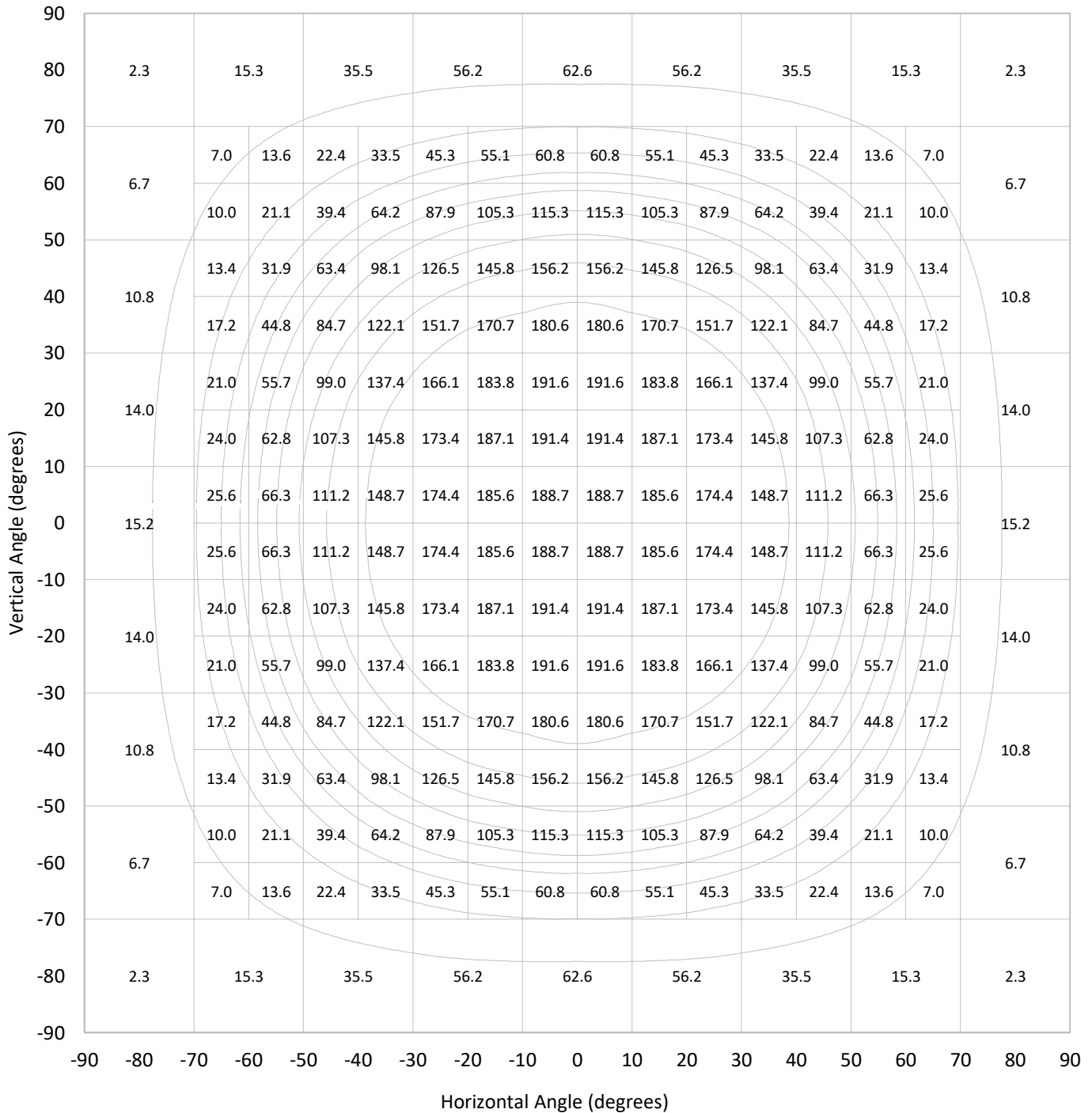
Iso-Candela Plot





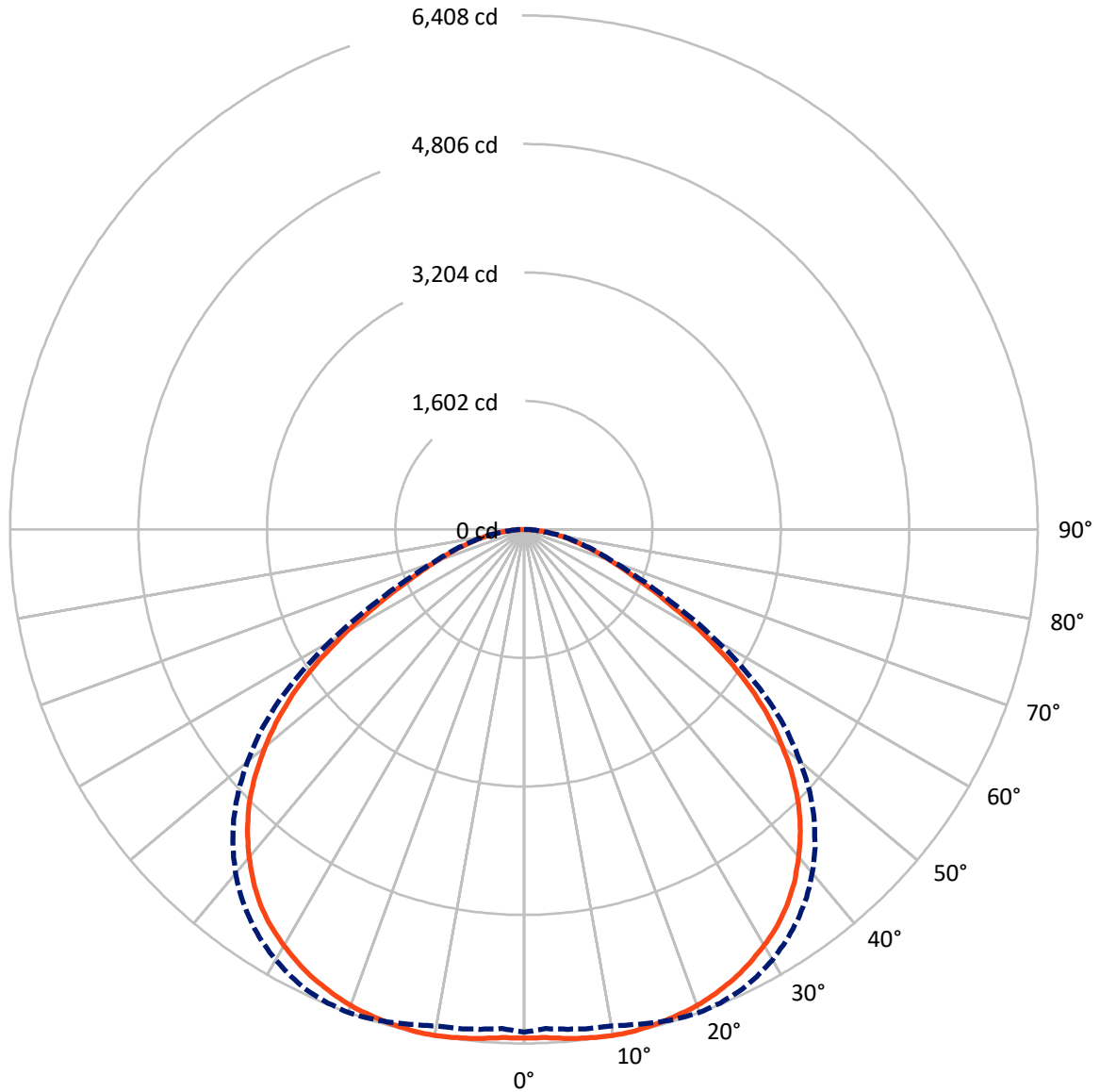
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Lumen Table



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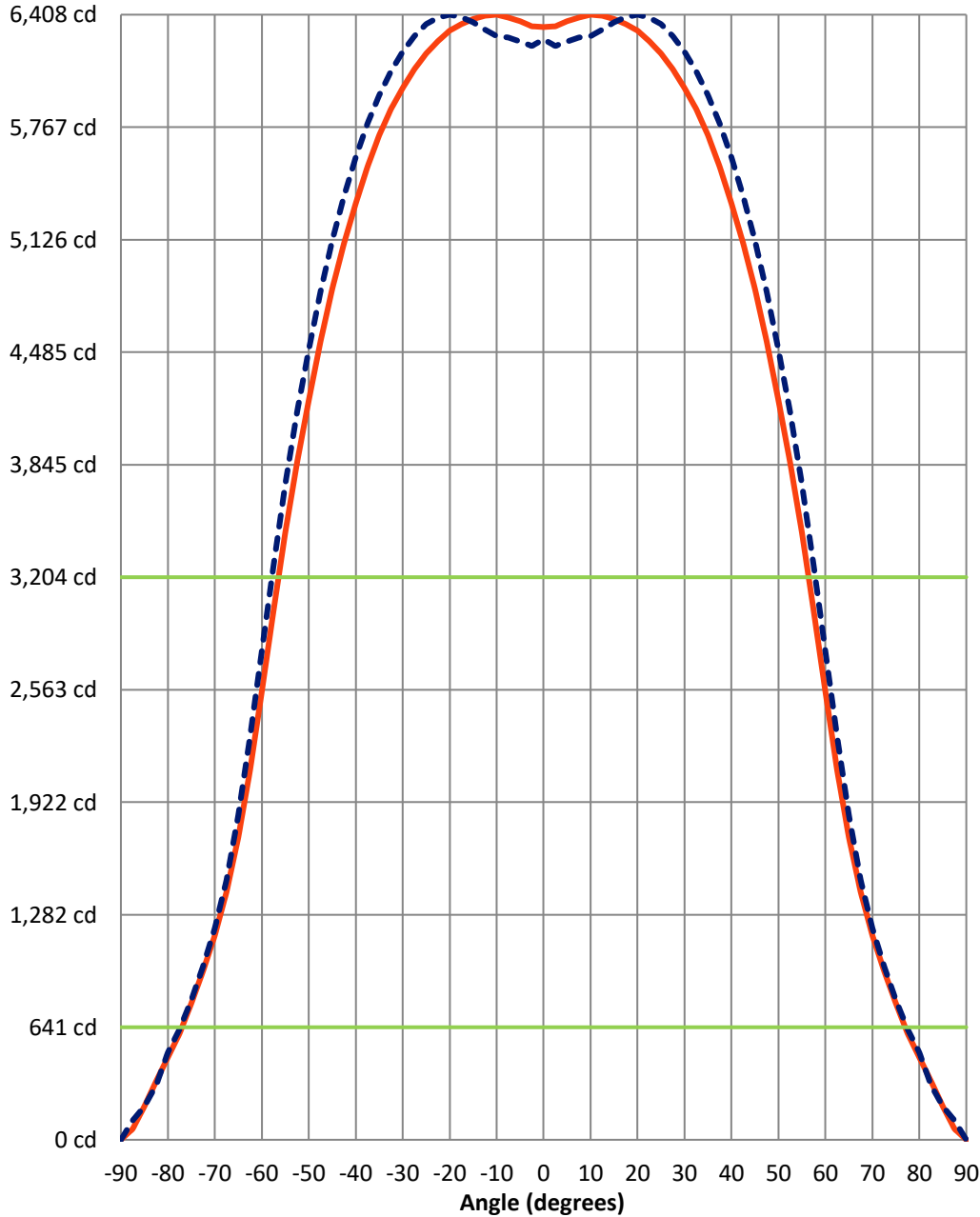
Luminous Intensity Polar Plot



— 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: 12062.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 14460.8
 Efficiency: 73.6%

Spill:
 Lumens: 5197
 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°	51.7	55.8	57.9	60.0	62.0	64.1	66.2	64.1	62.0	62.0	60.0
85°	138.6	142.7	144.8	159.3	173.7	182.0	192.4	190.3	190.3	188.2	186.1
82.5°	277.2	289.6	299.9	314.4	322.7	335.1	343.3	337.1	333.0	324.7	318.5
80°	492.3	496.4	498.5	500.5	490.2	488.1	484.0	477.8	469.5	459.2	448.8
77.5°	626.7	630.8	635.0	630.8	628.8	626.7	620.5	614.3	606.0	597.7	585.3
75°	829.4	829.4	829.4	823.2	819.1	812.8	802.5	792.2	777.7	761.1	742.5
72.5°	1044.5	1042.4	1040.4	1028.0	1017.6	1005.2	990.7	978.3	961.8	943.2	918.3
70°	1269.9	1274.1	1276.2	1259.6	1247.2	1230.7	1212.0	1189.3	1164.5	1137.6	1102.4
67.5°	1580.2	1576.1	1571.9	1549.2	1532.6	1509.9	1483.0	1449.9	1412.7	1371.3	1321.7
65°	1964.9	1971.1	1958.7	1935.9	1904.9	1867.7	1826.3	1778.8	1722.9	1660.9	1590.5
62.5°	2430.3	2440.6	2426.1	2397.2	2357.9	2308.2	2250.3	2182.1	2105.5	2018.7	1931.8
60°	2959.8	2957.7	2930.8	2891.5	2839.8	2777.8	2713.6	2639.2	2552.3	2451.0	2345.5
57.5°	3445.8	3441.7	3408.6	3369.3	3317.6	3251.4	3183.1	3104.5	3013.5	2906.0	2784.0
55°	3882.2	3878.1	3845.0	3803.6	3749.9	3683.7	3621.6	3547.2	3458.2	3344.5	3214.2
52.5°	4269.0	4271.1	4242.1	4196.6	4138.7	4074.6	4014.6	3940.1	3855.3	3741.6	3615.4
50°	4624.8	4622.7	4591.7	4550.3	4496.5	4434.5	4374.5	4300.0	4211.1	4101.5	3979.4
47.5°	4955.7	4951.6	4916.4	4870.9	4815.0	4761.3	4705.4	4639.2	4546.2	4436.5	4314.5
45°	5232.8	5224.6	5189.4	5146.0	5092.2	5044.6	4995.0	4945.4	4846.1	4744.7	4628.9
42.5°	5470.7	5468.6	5433.5	5390.0	5336.3	5294.9	5249.4	5187.3	5104.6	5011.5	4897.8
40°	5698.2	5681.7	5646.5	5605.1	5555.5	5520.3	5474.8	5412.8	5332.1	5241.1	5131.5
37.5°	5867.8	5869.9	5832.7	5787.2	5743.7	5710.6	5669.3	5611.4	5541.0	5452.1	5342.5
35°	6029.2	6018.8	5987.8	5948.5	5909.2	5872.0	5828.5	5778.9	5721.0	5638.2	5534.8
32.5°	6134.6	6149.1	6111.9	6070.5	6047.8	6018.8	5973.3	5921.6	5869.9	5787.2	5694.1
30°	6250.5	6238.1	6209.1	6173.9	6157.4	6138.8	6099.5	6049.8	5989.9	5915.4	5828.5
27.5°	6331.1	6324.9	6289.8	6256.7	6248.4	6231.8	6200.8	6157.4	6097.4	6025.0	5944.4
25°	6366.3	6370.4	6337.3	6318.7	6318.7	6308.4	6283.6	6246.3	6186.3	6120.2	6041.6
22.5°	6382.8	6378.7	6355.9	6351.8	6362.2	6353.9	6343.5	6310.4	6256.7	6202.9	6136.7
20°	6393.2	6364.2	6343.5	6360.1	6372.5	6370.4	6362.2	6341.5	6316.6	6271.1	6213.2
17.5°	6370.4	6351.8	6327.0	6351.8	6378.7	6380.8	6372.5	6360.1	6353.9	6324.9	6273.2
15°	6314.6	6300.1	6304.2	6329.1	6360.1	6370.4	6376.6	6391.1	6382.8	6360.1	6314.6
12.5°	6277.4	6258.7	6277.4	6302.2	6318.7	6324.9	6374.6	6401.5	6401.5	6380.8	6351.8
10°	6267.0	6229.8	6254.6	6277.4	6285.6	6322.9	6364.2	6393.2	6407.7	6391.1	6353.9
7.5°	6246.3	6221.5	6231.8	6242.2	6289.8	6316.6	6339.4	6370.4	6391.1	6389.0	6355.9
5°	6236.0	6205.0	6209.1	6252.5	6285.6	6304.2	6312.5	6339.4	6370.4	6376.6	6351.8
2.5°	6209.1	6194.6	6225.6	6229.8	6254.6	6269.1	6277.4	6302.2	6341.5	6355.9	6345.6
0°	6194.6	6173.9	6153.3	6169.8	6211.2	6242.2	6254.6	6291.8	6337.3	6351.8	6329.1



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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°	57.9	55.8	53.8	51.7	53.8	53.8	53.8	51.7	53.8	51.7	51.7
85°	179.9	171.7	165.5	157.2	148.9	142.7	134.4	126.2	124.1	122.0	117.9
82.5°	310.2	299.9	289.6	277.2	264.7	250.3	235.8	219.2	215.1	211.0	204.8
80°	436.4	421.9	407.5	393.0	380.6	366.1	349.5	330.9	318.5	308.2	295.8
77.5°	568.8	548.1	527.4	502.6	488.1	473.6	457.1	438.5	419.9	403.3	384.7
75°	719.8	697.0	676.3	651.5	624.6	597.7	570.9	546.0	519.1	494.3	469.5
72.5°	887.3	854.2	821.1	790.1	757.0	723.9	688.8	655.7	622.6	589.5	554.3
70°	1063.1	1021.8	980.4	939.0	895.6	852.1	810.8	769.4	728.0	684.6	645.3
67.5°	1269.9	1222.4	1168.6	1110.7	1046.6	990.7	936.9	887.3	837.7	788.0	738.4
65°	1528.5	1462.3	1389.9	1311.3	1236.9	1162.4	1083.8	1009.3	951.4	893.5	837.7
62.5°	1847.0	1753.9	1652.6	1551.2	1460.2	1363.0	1272.0	1174.8	1083.8	1001.1	932.8
60°	2227.6	2101.4	1977.3	1847.0	1720.8	1588.5	1472.6	1352.7	1238.9	1137.6	1038.3
57.5°	2647.4	2500.6	2351.7	2192.4	2020.7	1865.6	1708.4	1551.2	1416.8	1282.4	1170.7
55°	3073.5	2918.4	2750.9	2570.9	2382.7	2184.1	1971.1	1795.3	1611.2	1454.0	1309.2
52.5°	3478.9	3317.6	3143.8	2978.4	2752.9	2525.4	2291.7	2060.0	1844.9	1644.3	1468.5
50°	3840.9	3683.7	3516.1	3323.8	3114.9	2872.9	2612.3	2351.7	2097.3	1861.5	1642.2
47.5°	4171.8	4018.7	3851.2	3658.9	3468.6	3199.7	2937.0	2649.5	2366.2	2095.2	1838.7
45°	4482.0	4326.9	4153.2	3969.1	3749.9	3509.9	3239.0	2949.4	2645.4	2341.3	2045.6
42.5°	4763.3	4608.2	4432.4	4242.1	4025.0	3787.1	3524.4	3232.8	2926.7	2595.7	2271.0
40°	5009.5	4858.5	4688.9	4490.3	4287.6	4037.4	3778.8	3501.7	3185.2	2852.2	2494.4
37.5°	5224.6	5083.9	4916.4	4719.9	4504.8	4281.4	4014.6	3737.5	3452.0	3090.1	2724.0
35°	5414.9	5284.6	5112.9	4926.7	4715.8	4480.0	4229.7	3958.8	3650.6	3311.4	2955.6
32.5°	5580.3	5448.0	5290.8	5104.6	4899.8	4678.5	4422.1	4149.0	3857.4	3512.0	3125.2
30°	5721.0	5592.7	5443.8	5268.0	5071.5	4852.3	4602.0	4326.9	4029.1	3685.7	3303.1
27.5°	5843.0	5721.0	5576.2	5412.8	5224.6	5013.6	4761.3	4484.1	4180.1	3849.1	3466.5
25°	5948.5	5830.6	5696.2	5541.0	5354.9	5148.0	4910.2	4620.6	4316.6	3983.6	3605.1
22.5°	6043.6	5929.9	5795.4	5644.4	5474.8	5268.0	5028.1	4740.6	4432.4	4103.5	3731.2
20°	6128.4	6022.9	5890.6	5735.5	5565.8	5356.9	5119.1	4846.1	4535.8	4213.2	3845.0
17.5°	6196.7	6103.6	5971.2	5807.8	5638.2	5435.5	5203.9	4953.6	4624.8	4306.2	3940.1
15°	6244.3	6153.3	6033.3	5867.8	5702.4	5501.7	5270.1	5011.5	4705.4	4380.7	4018.7
12.5°	6277.4	6180.1	6068.5	5915.4	5749.9	5551.4	5325.9	5071.5	4773.7	4446.9	4087.0
10°	6285.6	6196.7	6085.0	5948.5	5787.2	5594.8	5373.5	5121.2	4829.5	4498.6	4142.8
7.5°	6289.8	6205.0	6103.6	5973.3	5814.0	5627.9	5408.7	5160.5	4870.9	4542.0	4184.2
5°	6287.7	6207.0	6116.0	5989.9	5830.6	5646.5	5431.4	5187.3	4899.8	4571.0	4215.2
2.5°	6281.5	6209.1	6124.3	6002.3	5849.2	5667.2	5454.2	5218.4	4930.9	4595.8	4240.1
0°	6298.0	6236.0	6128.4	5998.1	5853.3	5667.2	5452.1	5222.5	4935.0	4593.7	4238.0



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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°	51.7	49.6	49.6	47.6	45.5	43.4	39.3	37.2	33.1	26.9	20.7
85°	111.7	105.5	99.3	95.1	91.0	86.9	80.7	74.5	66.2	53.8	41.4
82.5°	196.5	184.1	171.7	157.2	144.8	132.4	122.0	111.7	99.3	80.7	62.0
80°	281.3	262.7	244.1	223.4	204.8	184.1	165.5	148.9	132.4	107.6	82.7
77.5°	366.1	341.3	314.4	289.6	262.7	235.8	208.9	186.1	161.3	132.4	103.4
75°	444.7	415.7	390.9	355.8	322.7	287.5	252.3	221.3	190.3	155.1	124.1
72.5°	523.3	486.1	450.9	417.8	380.6	337.1	297.8	258.5	219.2	177.9	140.6
70°	601.9	556.4	512.9	473.6	432.3	388.8	341.3	295.8	248.2	198.6	155.1
67.5°	682.5	630.8	581.2	531.6	484.0	434.3	384.7	333.0	277.2	219.2	171.7
65°	771.5	707.4	647.4	591.5	535.7	481.9	426.1	370.2	308.2	242.0	186.1
62.5°	860.4	790.1	719.8	649.5	587.4	527.4	467.4	405.4	337.1	266.8	200.6
60°	955.6	874.9	794.2	715.6	639.1	572.9	506.7	440.6	368.2	289.6	215.1
57.5°	1061.0	963.8	872.8	783.9	697.0	618.4	546.0	475.7	395.0	312.3	231.7
55°	1181.0	1061.0	953.5	854.2	759.1	663.9	585.3	512.9	426.1	335.1	250.3
52.5°	1307.2	1168.6	1038.3	926.6	825.3	717.7	622.6	541.9	457.1	357.8	266.8
50°	1454.0	1278.2	1133.4	996.9	883.2	771.5	661.9	575.0	488.1	384.7	283.4
47.5°	1605.0	1410.6	1228.6	1079.7	945.2	823.2	707.4	603.9	517.1	409.5	299.9
45°	1780.8	1536.8	1336.1	1160.3	1005.2	877.0	752.9	635.0	541.9	434.3	316.5
42.5°	1950.4	1685.7	1447.8	1249.3	1073.5	928.7	794.2	668.1	566.7	459.2	330.9
40°	2151.1	1834.6	1555.4	1334.1	1141.7	978.3	835.6	703.2	589.5	481.9	345.4
37.5°	2343.4	1985.6	1685.7	1427.1	1207.9	1028.0	877.0	736.3	610.2	504.7	364.0
35°	2533.7	2153.1	1809.8	1514.0	1276.2	1083.8	918.3	767.3	630.8	523.3	380.6
32.5°	2715.7	2310.3	1935.9	1611.2	1350.6	1135.5	955.6	796.3	651.5	539.8	397.1
30°	2885.3	2459.2	2060.0	1710.5	1418.9	1183.1	990.7	825.3	676.3	554.3	413.7
27.5°	3040.4	2604.0	2184.1	1803.6	1483.0	1226.5	1028.0	852.1	697.0	568.8	428.1
25°	3181.1	2734.3	2297.9	1888.4	1540.9	1274.1	1063.1	879.0	715.6	581.2	440.6
22.5°	3313.4	2854.3	2401.3	1973.2	1611.2	1321.7	1096.2	903.9	734.3	593.6	453.0
20°	3429.3	2963.9	2500.6	2058.0	1673.3	1365.1	1125.2	926.6	750.8	601.9	465.4
17.5°	3522.3	3061.1	2589.5	2132.4	1727.0	1402.3	1150.0	947.3	765.3	612.2	473.6
15°	3605.1	3143.8	2664.0	2196.6	1774.6	1433.3	1172.7	963.8	777.7	618.4	484.0
12.5°	3675.4	3214.2	2728.1	2252.4	1816.0	1460.2	1191.4	976.2	788.0	624.6	490.2
10°	3733.3	3270.0	2781.9	2295.8	1849.1	1480.9	1205.8	988.7	796.3	630.8	496.4
7.5°	3776.8	3311.4	2821.2	2333.1	1876.0	1495.4	1218.2	996.9	804.6	635.0	506.7
5°	3809.8	3346.5	2852.2	2357.9	1896.6	1516.1	1232.7	1007.3	812.8	639.1	506.7
2.5°	3834.7	3375.5	2877.0	2378.6	1913.2	1511.9	1232.7	1005.2	812.8	639.1	504.7
0°	3830.5	3377.6	2875.0	2378.6	1913.2	1507.8	1232.7	1003.1	812.8	639.1	504.7



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.5	10.3	4.1	0.0
85°	31.0	20.7	10.3	0.0
82.5°	45.5	29.0	14.5	0.0
80°	60.0	39.3	18.6	0.0
77.5°	76.5	49.6	24.8	0.0
75°	91.0	57.9	29.0	0.0
72.5°	105.5	68.3	33.1	0.0
70°	117.9	76.5	37.2	0.0
67.5°	130.3	86.9	43.4	0.0
65°	140.6	95.1	47.6	0.0
62.5°	148.9	105.5	51.7	0.0
60°	159.3	113.8	55.8	0.0
57.5°	167.5	120.0	60.0	0.0
55°	175.8	124.1	64.1	0.0
52.5°	184.1	130.3	68.3	0.0
50°	192.4	136.5	72.4	0.0
47.5°	200.6	140.6	74.5	0.0
45°	213.0	146.9	78.6	0.0
42.5°	223.4	151.0	82.7	0.0
40°	233.7	155.1	84.8	0.0
37.5°	244.1	159.3	88.9	0.0
35°	254.4	163.4	91.0	0.0
32.5°	262.7	167.5	93.1	0.0
30°	270.9	171.7	95.1	0.0
27.5°	279.2	173.7	97.2	0.0
25°	285.4	177.9	99.3	0.0
22.5°	291.6	179.9	101.3	0.0
20°	295.8	182.0	103.4	0.0
17.5°	302.0	184.1	105.5	0.0
15°	304.0	186.1	109.6	0.0
12.5°	308.2	188.2	109.6	0.0
10°	310.2	190.3	109.6	0.0
7.5°	314.4	190.3	109.6	0.0
5°	312.3	190.3	109.6	0.0
2.5°	312.3	190.3	109.6	0.0
0°	310.2	190.3	109.6	0.0

(END OF REPORT)