

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: P628281

Luminaire Tested: **IFLD-M-SA4A-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628281  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

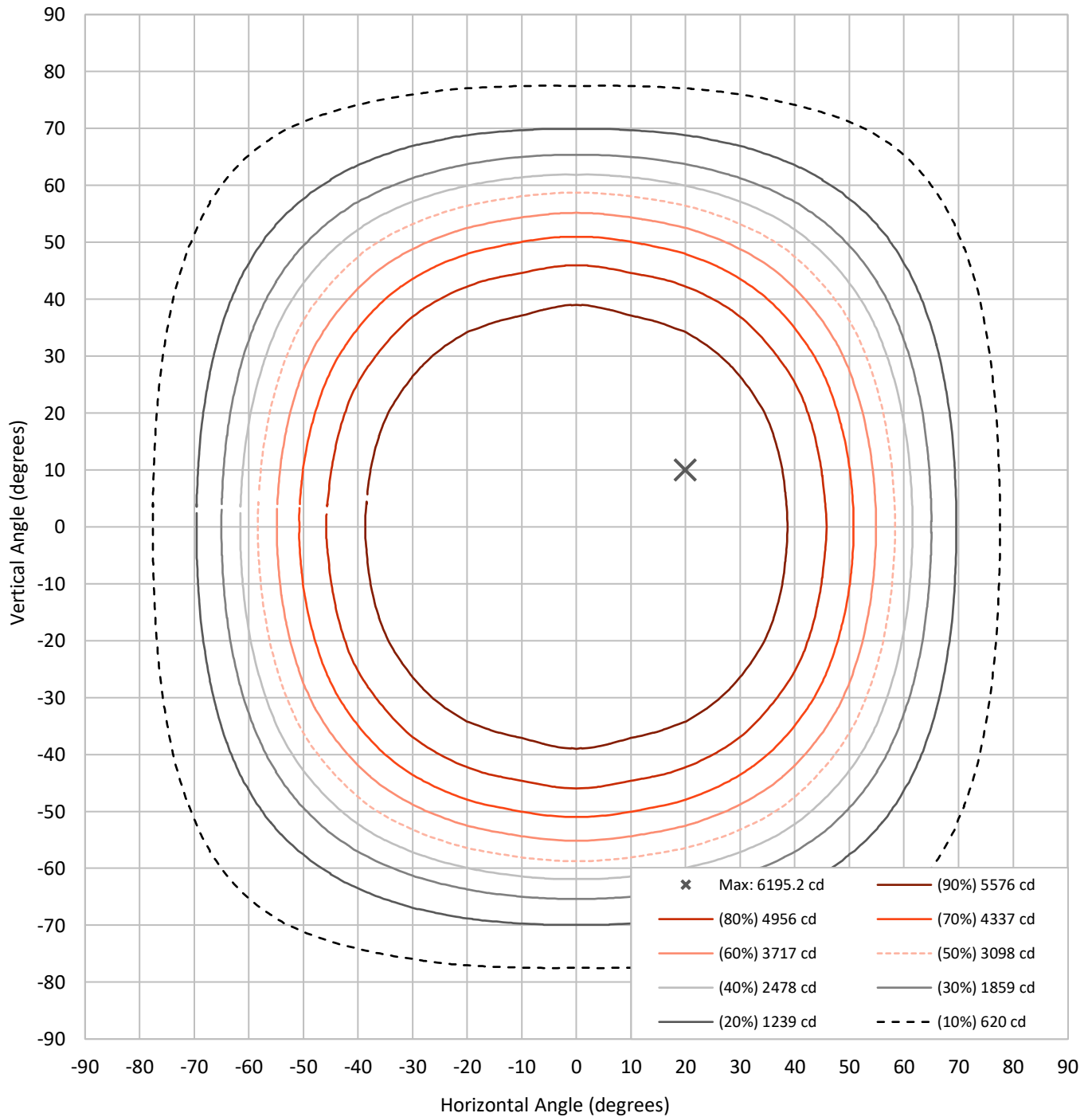
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	19006.1 lumens	Max Intensity:	6195.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	147.8 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:	11662.5 lumens	Field Lumens:	13981.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	128.6		
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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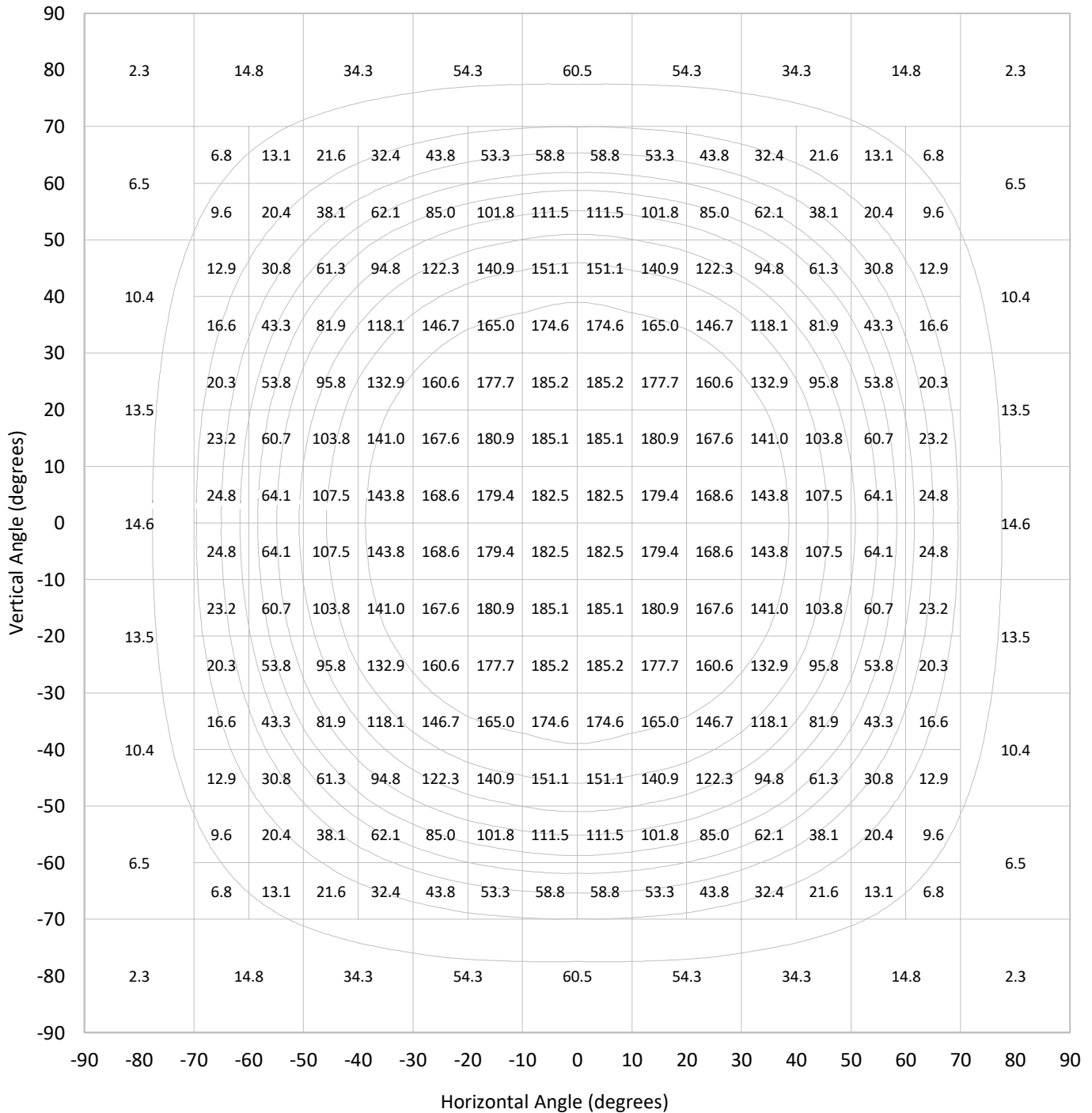
### Iso-Candela Plot





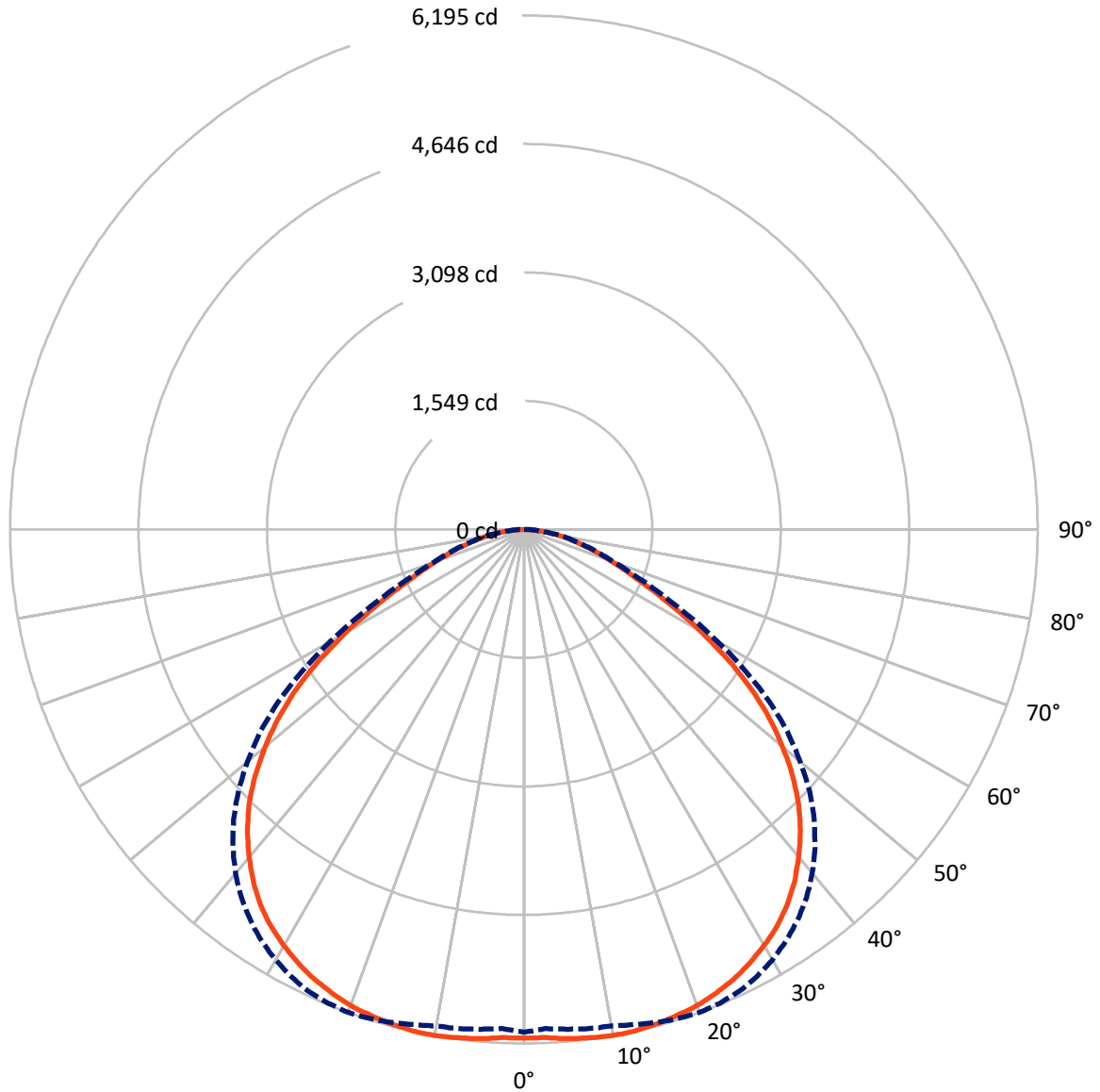
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### Lumen Table



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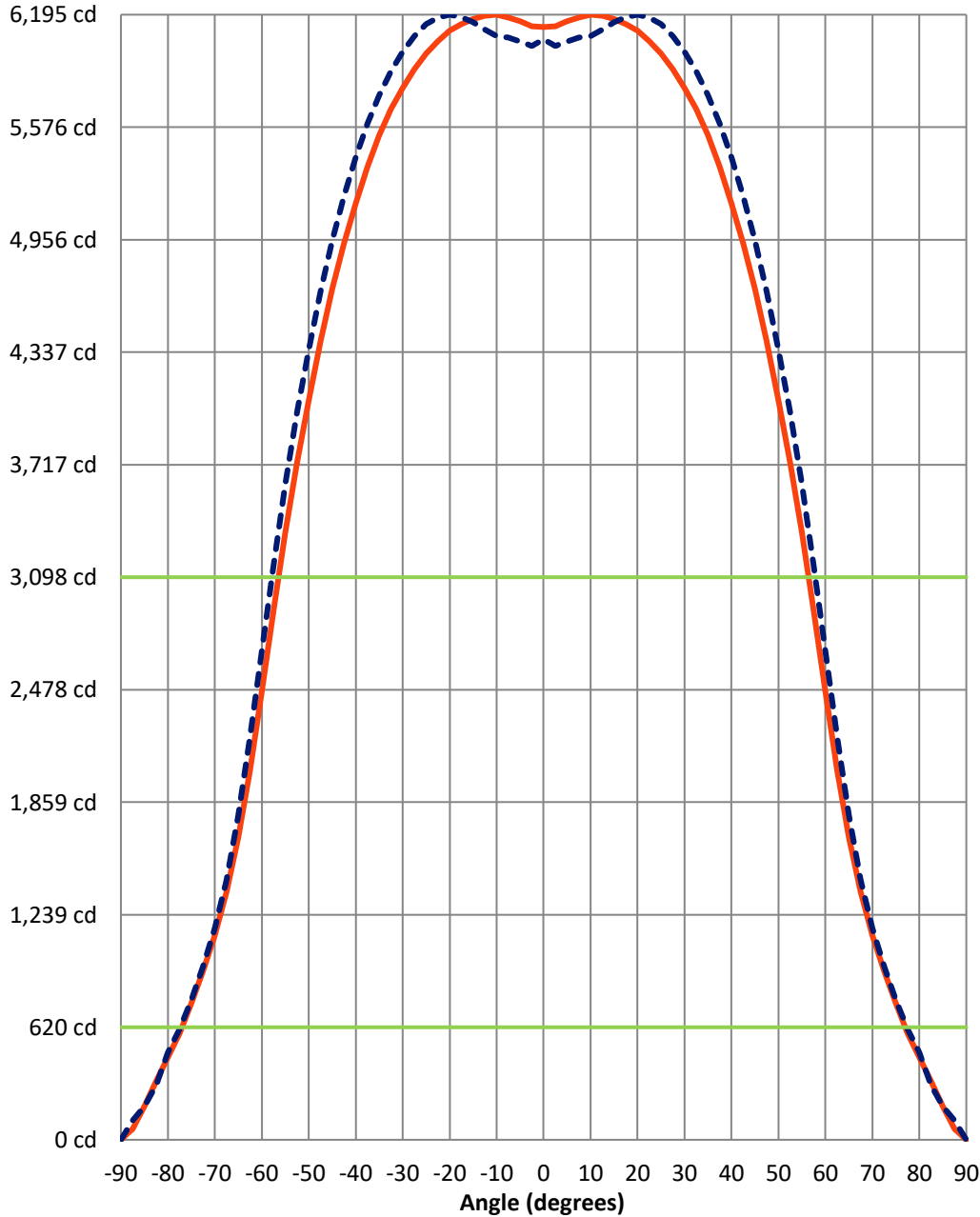
### Luminous Intensity Polar Plot



— 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: 11662.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 13981.4  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 5024.7  
 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°	50.0	54.0	56.0	58.0	60.0	62.0	64.0	62.0	60.0	60.0	58.0
85°	134.0	138.0	140.0	154.0	168.0	176.0	186.0	184.0	184.0	182.0	180.0
82.5°	268.0	280.0	290.0	304.0	312.0	324.0	332.0	326.0	322.0	314.0	308.0
80°	475.9	479.9	481.9	483.9	473.9	471.9	467.9	461.9	453.9	443.9	433.9
77.5°	605.9	609.9	613.9	609.9	607.9	605.9	599.9	593.9	585.9	577.9	565.9
75°	801.9	801.9	801.9	795.9	791.9	785.9	775.9	765.9	751.9	735.9	717.9
72.5°	1009.9	1007.9	1005.9	993.9	983.9	971.9	957.9	945.9	929.9	911.9	887.9
70°	1227.8	1231.8	1233.8	1217.8	1205.8	1189.8	1171.9	1149.9	1125.9	1099.9	1065.9
67.5°	1527.8	1523.8	1519.8	1497.8	1481.8	1459.8	1433.8	1401.8	1365.8	1325.8	1277.8
65°	1899.8	1905.8	1893.8	1871.8	1841.8	1805.8	1765.8	1719.8	1665.8	1605.8	1537.8
62.5°	2349.7	2359.7	2345.7	2317.7	2279.7	2231.7	2175.7	2109.7	2035.7	1951.8	1867.8
60°	2861.6	2859.6	2833.6	2795.6	2745.7	2685.7	2623.7	2551.7	2467.7	2369.7	2267.7
57.5°	3331.6	3327.6	3295.6	3257.6	3207.6	3143.6	3077.6	3001.6	2913.6	2809.6	2691.7
55°	3753.5	3749.5	3717.5	3677.5	3625.5	3561.5	3501.6	3429.6	3343.6	3233.6	3107.6
52.5°	4127.5	4129.5	4101.5	4057.5	4001.5	3939.5	3881.5	3809.5	3727.5	3617.5	3495.6
50°	4471.4	4469.4	4439.4	4399.4	4347.5	4287.5	4229.5	4157.5	4071.5	3965.5	3847.5
47.5°	4791.4	4787.4	4753.4	4709.4	4655.4	4603.4	4549.4	4485.4	4395.4	4289.5	4171.5
45°	5059.4	5051.4	5017.4	4975.4	4923.4	4877.4	4829.4	4781.4	4685.4	4587.4	4475.4
42.5°	5289.3	5287.3	5253.3	5211.3	5159.3	5119.4	5075.4	5015.4	4935.4	4845.4	4735.4
40°	5509.3	5493.3	5459.3	5419.3	5371.3	5337.3	5293.3	5233.3	5155.3	5067.4	4961.4
37.5°	5673.3	5675.3	5639.3	5595.3	5553.3	5521.3	5481.3	5425.3	5357.3	5271.3	5165.3
35°	5829.3	5819.3	5789.3	5751.3	5713.3	5677.3	5635.3	5587.3	5531.3	5451.3	5351.3
32.5°	5931.2	5945.2	5909.3	5869.3	5847.3	5819.3	5775.3	5725.3	5675.3	5595.3	5505.3
30°	6043.2	6031.2	6003.2	5969.2	5953.2	5935.2	5897.3	5849.3	5791.3	5719.3	5635.3
27.5°	6121.2	6115.2	6081.2	6049.2	6041.2	6025.2	5995.2	5953.2	5895.3	5825.3	5747.3
25°	6155.2	6159.2	6127.2	6109.2	6109.2	6099.2	6075.2	6039.2	5981.2	5917.3	5841.3
22.5°	6171.2	6167.2	6145.2	6141.2	6151.2	6143.2	6133.2	6101.2	6049.2	5997.2	5933.2
20°	6181.2	6153.2	6133.2	6149.2	6161.2	6159.2	6151.2	6131.2	6107.2	6063.2	6007.2
17.5°	6159.2	6141.2	6117.2	6141.2	6167.2	6169.2	6161.2	6149.2	6143.2	6115.2	6065.2
15°	6105.2	6091.2	6095.2	6119.2	6149.2	6159.2	6165.2	6179.2	6171.2	6149.2	6105.2
12.5°	6069.2	6051.2	6069.2	6093.2	6109.2	6115.2	6163.2	6189.2	6189.2	6169.2	6141.2
10°	6059.2	6023.2	6047.2	6069.2	6077.2	6113.2	6153.2	6181.2	6195.2	6179.2	6143.2
7.5°	6039.2	6015.2	6025.2	6035.2	6081.2	6107.2	6129.2	6159.2	6179.2	6177.2	6145.2
5°	6029.2	5999.2	6003.2	6045.2	6077.2	6095.2	6103.2	6129.2	6159.2	6165.2	6141.2
2.5°	6003.2	5989.2	6019.2	6023.2	6047.2	6061.2	6069.2	6093.2	6131.2	6145.2	6135.2
0°	5989.2	5969.2	5949.2	5965.2	6005.2	6035.2	6047.2	6083.2	6127.2	6141.2	6119.2



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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°	56.0	54.0	52.0	50.0	52.0	52.0	52.0	50.0	52.0	50.0	50.0
85°	174.0	166.0	160.0	152.0	144.0	138.0	130.0	122.0	120.0	118.0	114.0
82.5°	300.0	290.0	280.0	268.0	256.0	242.0	228.0	212.0	208.0	204.0	198.0
80°	421.9	407.9	394.0	380.0	368.0	354.0	338.0	320.0	308.0	298.0	286.0
77.5°	549.9	529.9	509.9	485.9	471.9	457.9	441.9	423.9	405.9	390.0	372.0
75°	695.9	673.9	653.9	629.9	603.9	577.9	551.9	527.9	501.9	477.9	453.9
72.5°	857.9	825.9	793.9	763.9	731.9	699.9	665.9	633.9	601.9	569.9	535.9
70°	1027.9	987.9	947.9	907.9	865.9	823.9	783.9	743.9	703.9	661.9	623.9
67.5°	1227.8	1181.9	1129.9	1073.9	1011.9	957.9	905.9	857.9	809.9	761.9	713.9
65°	1477.8	1413.8	1343.8	1267.8	1195.8	1123.9	1047.9	975.9	919.9	863.9	809.9
62.5°	1785.8	1695.8	1597.8	1499.8	1411.8	1317.8	1229.8	1135.9	1047.9	967.9	901.9
60°	2153.7	2031.7	1911.8	1785.8	1663.8	1535.8	1423.8	1307.8	1197.8	1099.9	1003.9
57.5°	2559.7	2417.7	2273.7	2119.7	1953.8	1803.8	1651.8	1499.8	1369.8	1239.8	1131.9
55°	2971.6	2821.6	2659.7	2485.7	2303.7	2111.7	1905.8	1735.8	1557.8	1405.8	1265.8
52.5°	3363.6	3207.6	3039.6	2879.6	2661.7	2441.7	2215.7	1991.7	1783.8	1589.8	1419.8
50°	3713.5	3561.5	3399.6	3213.6	3011.6	2777.6	2525.7	2273.7	2027.7	1799.8	1587.8
47.5°	4033.5	3885.5	3723.5	3537.6	3353.6	3093.6	2839.6	2561.7	2287.7	2025.7	1777.8
45°	4333.5	4183.5	4015.5	3837.5	3625.5	3393.6	3131.6	2851.6	2557.7	2263.7	1977.7
42.5°	4605.4	4455.4	4285.5	4101.5	3891.5	3661.5	3407.6	3125.6	2829.6	2509.7	2195.7
40°	4843.4	4697.4	4533.4	4341.5	4145.5	3903.5	3653.5	3385.6	3079.6	2757.7	2411.7
37.5°	5051.4	4915.4	4753.4	4563.4	4355.4	4139.5	3881.5	3613.5	3337.6	2987.6	2633.7
35°	5235.3	5109.4	4943.4	4763.4	4559.4	4331.5	4089.5	3827.5	3529.6	3201.6	2857.6
32.5°	5395.3	5267.3	5115.4	4935.4	4737.4	4523.4	4275.5	4011.5	3729.5	3395.6	3021.6
30°	5531.3	5407.3	5263.3	5093.4	4903.4	4691.4	4449.4	4183.5	3895.5	3563.5	3193.6
27.5°	5649.3	5531.3	5391.3	5233.3	5051.4	4847.4	4603.4	4335.5	4041.5	3721.5	3351.6
25°	5751.3	5637.3	5507.3	5357.3	5177.3	4977.4	4747.4	4467.4	4173.5	3851.5	3485.6
22.5°	5843.3	5733.3	5603.3	5457.3	5293.3	5093.4	4861.4	4583.4	4285.5	3967.5	3607.5
20°	5925.3	5823.3	5695.3	5545.3	5381.3	5179.3	4949.4	4685.4	4385.4	4073.5	3717.5
17.5°	5991.2	5901.3	5773.3	5615.3	5451.3	5255.3	5031.4	4789.4	4471.4	4163.5	3809.5
15°	6037.2	5949.2	5833.3	5673.3	5513.3	5319.3	5095.4	4845.4	4549.4	4235.5	3885.5
12.5°	6069.2	5975.2	5867.3	5719.3	5559.3	5367.3	5149.3	4903.4	4615.4	4299.5	3951.5
10°	6077.2	5991.2	5883.3	5751.3	5595.3	5409.3	5195.3	4951.4	4669.4	4349.4	4005.5
7.5°	6081.2	5999.2	5901.3	5775.3	5621.3	5441.3	5229.3	4989.4	4709.4	4391.4	4045.5
5°	6079.2	6001.2	5913.3	5791.3	5637.3	5459.3	5251.3	5015.4	4737.4	4419.4	4075.5
2.5°	6073.2	6003.2	5921.3	5803.3	5655.3	5479.3	5273.3	5045.4	4767.4	4443.4	4099.5
0°	6089.2	6029.2	5925.3	5799.3	5659.3	5479.3	5271.3	5049.4	4771.4	4441.4	4097.5





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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°	50.0	48.0	48.0	46.0	44.0	42.0	38.0	36.0	32.0	26.0	20.0
85°	108.0	102.0	96.0	92.0	88.0	84.0	78.0	72.0	64.0	52.0	40.0
82.5°	190.0	178.0	166.0	152.0	140.0	128.0	118.0	108.0	96.0	78.0	60.0
80°	272.0	254.0	236.0	216.0	198.0	178.0	160.0	144.0	128.0	104.0	80.0
77.5°	354.0	330.0	304.0	280.0	254.0	228.0	202.0	180.0	156.0	128.0	100.0
75°	429.9	401.9	378.0	344.0	312.0	278.0	244.0	214.0	184.0	150.0	120.0
72.5°	505.9	469.9	435.9	403.9	368.0	326.0	288.0	250.0	212.0	172.0	136.0
70°	581.9	537.9	495.9	457.9	417.9	376.0	330.0	286.0	240.0	192.0	150.0
67.5°	659.9	609.9	561.9	513.9	467.9	419.9	372.0	322.0	268.0	212.0	166.0
65°	745.9	683.9	625.9	571.9	517.9	465.9	411.9	358.0	298.0	234.0	180.0
62.5°	831.9	763.9	695.9	627.9	567.9	509.9	451.9	392.0	326.0	258.0	194.0
60°	923.9	845.9	767.9	691.9	617.9	553.9	489.9	425.9	356.0	280.0	208.0
57.5°	1025.9	931.9	843.9	757.9	673.9	597.9	527.9	459.9	382.0	302.0	224.0
55°	1141.9	1025.9	921.9	825.9	733.9	641.9	565.9	495.9	411.9	324.0	242.0
52.5°	1263.8	1129.9	1003.9	895.9	797.9	693.9	601.9	523.9	441.9	346.0	258.0
50°	1405.8	1235.8	1095.9	963.9	853.9	745.9	639.9	555.9	471.9	372.0	274.0
47.5°	1551.8	1363.8	1187.8	1043.9	913.9	795.9	683.9	583.9	499.9	395.9	290.0
45°	1721.8	1485.8	1291.8	1121.9	971.9	847.9	727.9	613.9	523.9	419.9	306.0
42.5°	1885.8	1629.8	1399.8	1207.8	1037.9	897.9	767.9	645.9	547.9	443.9	320.0
40°	2079.7	1773.8	1503.8	1289.8	1103.9	945.9	807.9	679.9	569.9	465.9	334.0
37.5°	2265.7	1919.8	1629.8	1379.8	1167.9	993.9	847.9	711.9	589.9	487.9	352.0
35°	2449.7	2081.7	1749.8	1463.8	1233.8	1047.9	887.9	741.9	609.9	505.9	368.0
32.5°	2625.7	2233.7	1871.8	1557.8	1305.8	1097.9	923.9	769.9	629.9	521.9	384.0
30°	2789.6	2377.7	1991.7	1653.8	1371.8	1143.9	957.9	797.9	653.9	535.9	399.9
27.5°	2939.6	2517.7	2111.7	1743.8	1433.8	1185.9	993.9	823.9	673.9	549.9	413.9
25°	3075.6	2643.7	2221.7	1825.8	1489.8	1231.8	1027.9	849.9	691.9	561.9	425.9
22.5°	3203.6	2759.7	2321.7	1907.8	1557.8	1277.8	1059.9	873.9	709.9	573.9	437.9
20°	3315.6	2865.6	2417.7	1989.7	1617.8	1319.8	1087.9	895.9	725.9	581.9	449.9
17.5°	3405.6	2959.6	2503.7	2061.7	1669.8	1355.8	1111.9	915.9	739.9	591.9	457.9
15°	3485.6	3039.6	2575.7	2123.7	1715.8	1385.8	1133.9	931.9	751.9	597.9	467.9
12.5°	3553.6	3107.6	2637.7	2177.7	1755.8	1411.8	1151.9	943.9	761.9	603.9	473.9
10°	3609.5	3161.6	2689.7	2219.7	1787.8	1431.8	1165.9	955.9	769.9	609.9	479.9
7.5°	3651.5	3201.6	2727.7	2255.7	1813.8	1445.8	1177.9	963.9	777.9	613.9	489.9
5°	3683.5	3235.6	2757.7	2279.7	1833.8	1465.8	1191.8	973.9	785.9	617.9	489.9
2.5°	3707.5	3263.6	2781.6	2299.7	1849.8	1461.8	1191.8	971.9	785.9	617.9	487.9
0°	3703.5	3265.6	2779.6	2299.7	1849.8	1457.8	1191.8	969.9	785.9	617.9	487.9



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.0	10.0	4.0	0.0
85°	30.0	20.0	10.0	0.0
82.5°	44.0	28.0	14.0	0.0
80°	58.0	38.0	18.0	0.0
77.5°	74.0	48.0	24.0	0.0
75°	88.0	56.0	28.0	0.0
72.5°	102.0	66.0	32.0	0.0
70°	114.0	74.0	36.0	0.0
67.5°	126.0	84.0	42.0	0.0
65°	136.0	92.0	46.0	0.0
62.5°	144.0	102.0	50.0	0.0
60°	154.0	110.0	54.0	0.0
57.5°	162.0	116.0	58.0	0.0
55°	170.0	120.0	62.0	0.0
52.5°	178.0	126.0	66.0	0.0
50°	186.0	132.0	70.0	0.0
47.5°	194.0	136.0	72.0	0.0
45°	206.0	142.0	76.0	0.0
42.5°	216.0	146.0	80.0	0.0
40°	226.0	150.0	82.0	0.0
37.5°	236.0	154.0	86.0	0.0
35°	246.0	158.0	88.0	0.0
32.5°	254.0	162.0	90.0	0.0
30°	262.0	166.0	92.0	0.0
27.5°	270.0	168.0	94.0	0.0
25°	276.0	172.0	96.0	0.0
22.5°	282.0	174.0	98.0	0.0
20°	286.0	176.0	100.0	0.0
17.5°	292.0	178.0	102.0	0.0
15°	294.0	180.0	106.0	0.0
12.5°	298.0	182.0	106.0	0.0
10°	300.0	184.0	106.0	0.0
7.5°	304.0	184.0	106.0	0.0
5°	302.0	184.0	106.0	0.0
2.5°	302.0	184.0	106.0	0.0
0°	300.0	184.0	106.0	0.0

(END OF REPORT)