

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: P628428

Luminaire Tested: **IFLD-M-SA4C-927-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628428  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-927-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (64) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

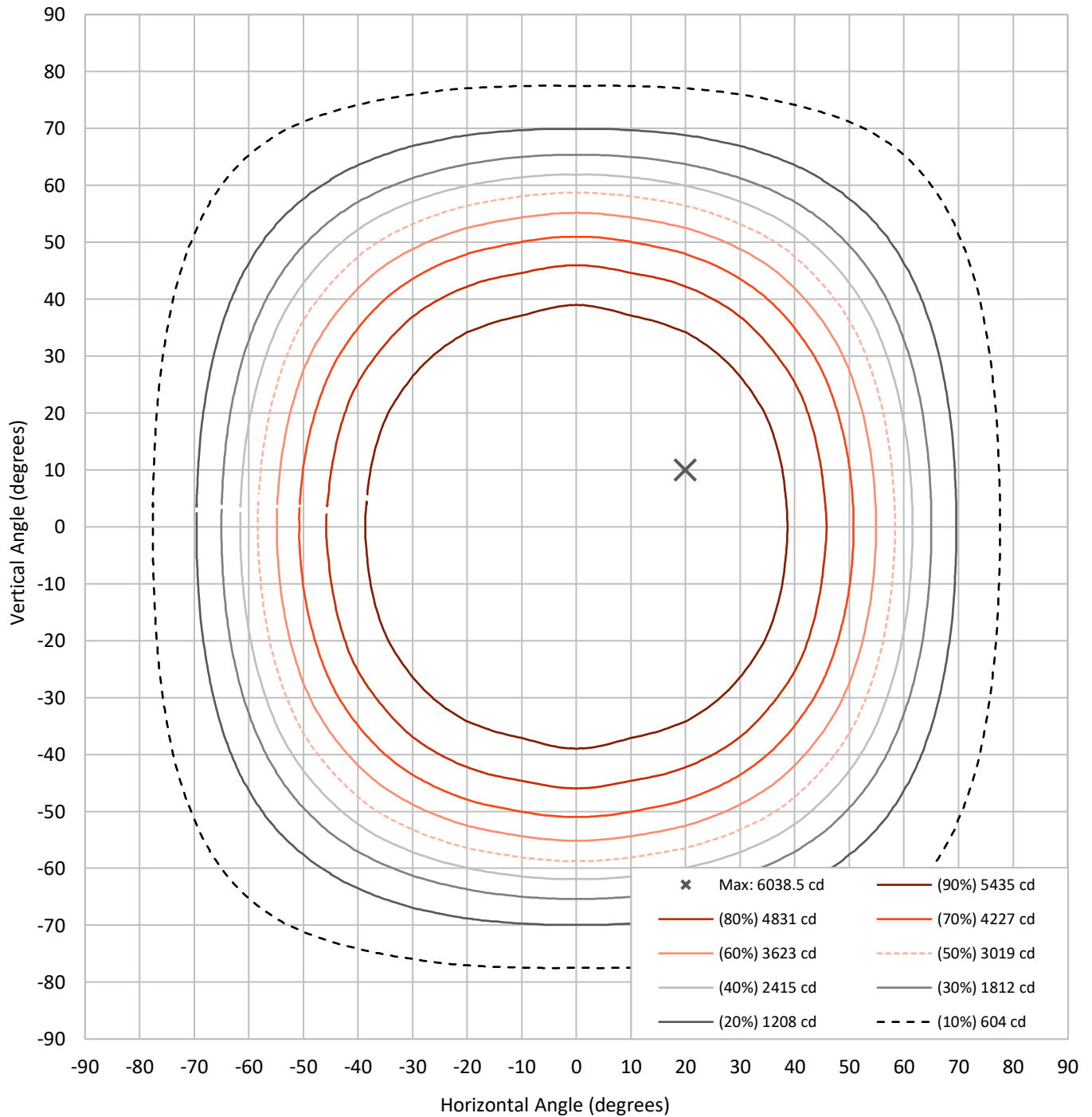
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	18525.2 lumens	Max Intensity:	6038.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	84.9 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:	11367.4 lumens	Field Lumens:	13627.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	218.1		
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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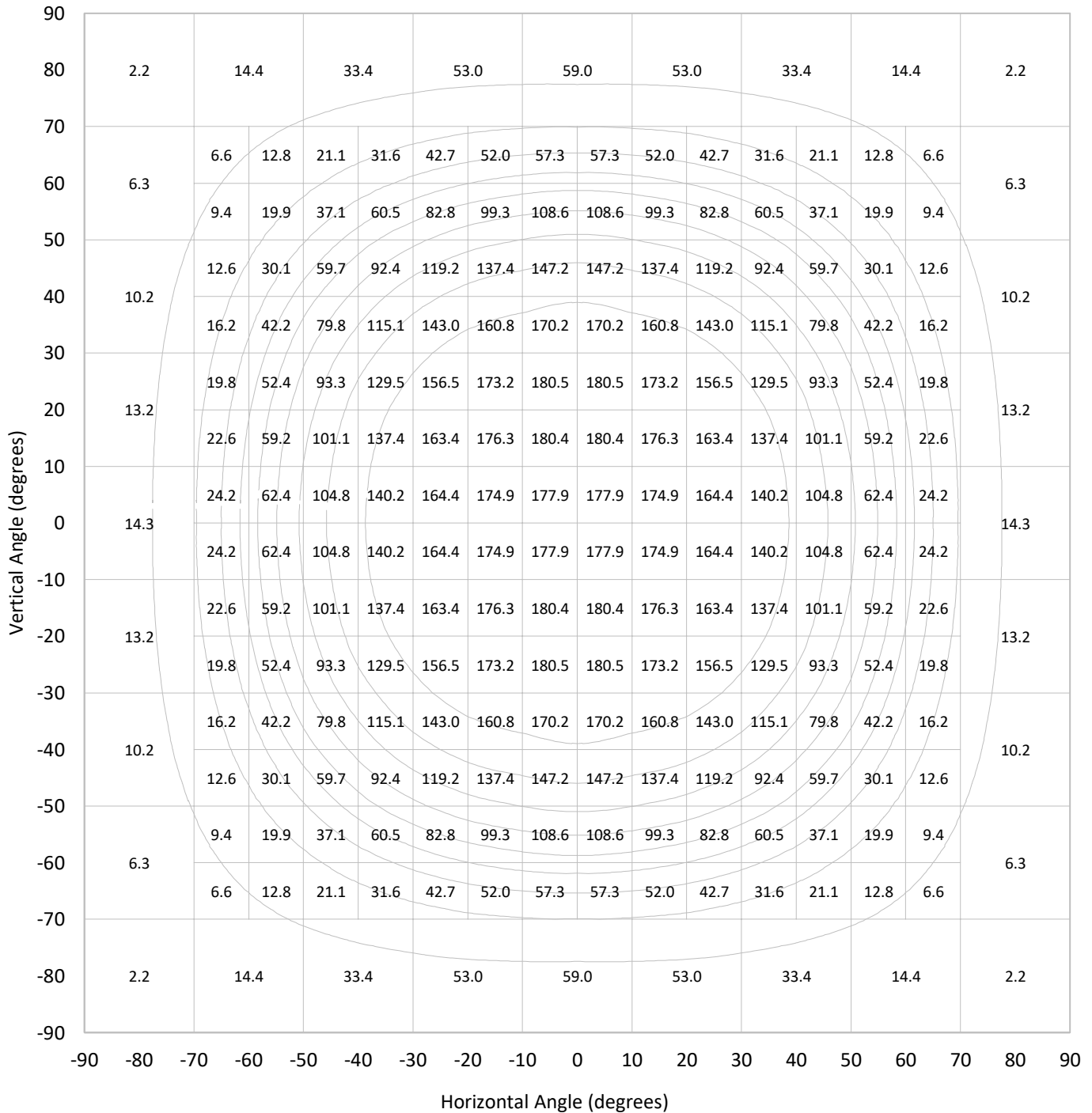
### Iso-Candela Plot





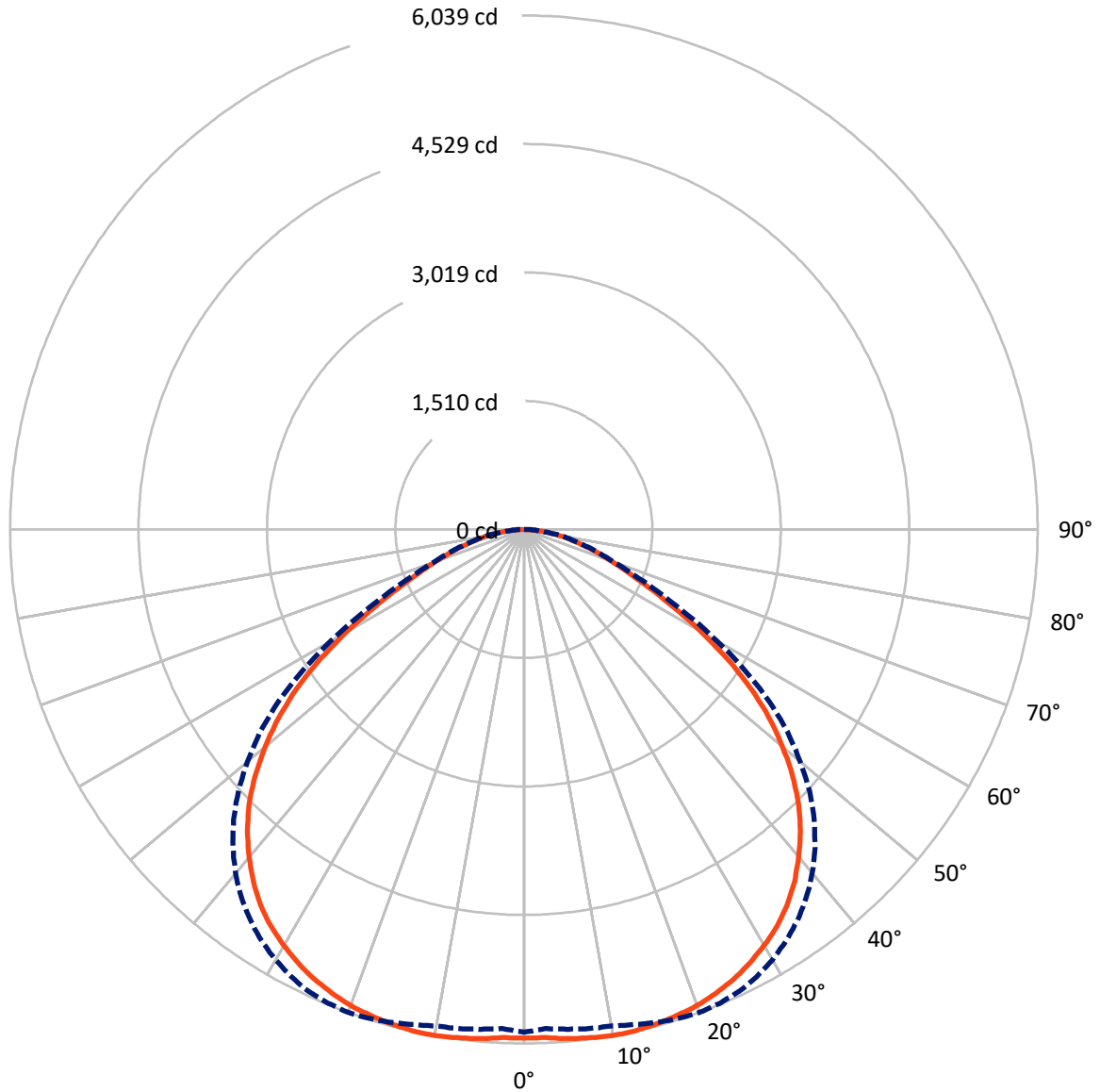
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### Lumen Table



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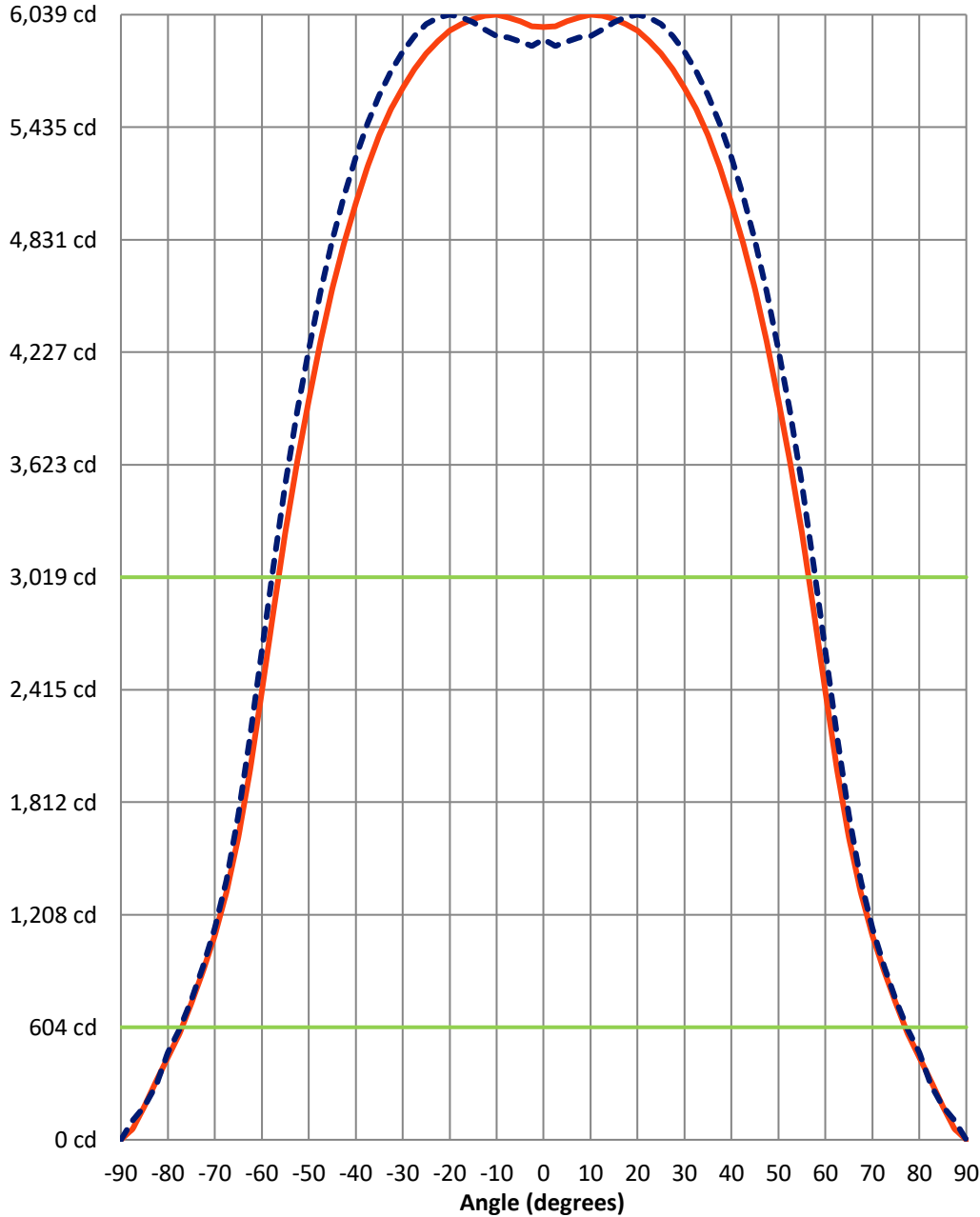
### Luminous Intensity Polar Plot



— 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: 11367.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 13627.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4897.6  
 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°	48.7	52.6	54.6	56.5	58.5	60.4	62.4	60.4	58.5	58.5	56.5
85°	130.6	134.5	136.4	150.1	163.7	171.5	181.3	179.3	179.3	177.4	175.4
82.5°	261.2	272.9	282.6	296.3	304.1	315.8	323.6	317.7	313.8	306.0	300.2
80°	463.9	467.8	469.7	471.7	461.9	460.0	456.1	450.3	442.5	432.7	423.0
77.5°	590.6	594.5	598.4	594.5	592.5	590.6	584.7	578.9	571.1	563.3	551.6
75°	781.6	781.6	781.6	775.8	771.9	766.0	756.3	746.5	732.9	717.3	699.7
72.5°	984.3	982.4	980.4	968.7	959.0	947.3	933.6	921.9	906.4	888.8	865.4
70°	1196.8	1200.7	1202.6	1187.0	1175.3	1159.7	1142.2	1120.8	1097.4	1072.0	1038.9
67.5°	1489.1	1485.3	1481.4	1459.9	1444.3	1422.9	1397.5	1366.4	1331.3	1292.3	1245.5
65°	1851.7	1857.5	1845.8	1824.4	1795.2	1760.1	1721.1	1676.3	1623.6	1565.2	1498.9
62.5°	2290.2	2300.0	2286.4	2259.1	2222.0	2175.2	2120.7	2056.4	1984.2	1902.4	1820.5
60°	2789.2	2787.3	2761.9	2724.9	2676.2	2617.7	2557.3	2487.1	2405.2	2309.7	2210.3
57.5°	3247.3	3243.4	3212.2	3175.2	3126.4	3064.1	2999.7	2925.7	2839.9	2738.6	2623.6
55°	3658.6	3654.7	3623.5	3584.5	3533.8	3471.4	3413.0	3342.8	3259.0	3151.8	3029.0
52.5°	4023.0	4025.0	3997.7	3954.8	3900.2	3839.8	3783.3	3713.1	3633.2	3526.0	3407.1
50°	4358.3	4356.3	4327.1	4288.1	4237.4	4179.0	4122.4	4052.3	3968.5	3865.2	3750.2
47.5°	4670.2	4666.3	4633.1	4590.2	4537.6	4486.9	4434.3	4371.9	4284.2	4180.9	4065.9
45°	4931.3	4923.5	4890.4	4849.5	4798.8	4754.0	4707.2	4660.4	4566.9	4471.3	4362.2
42.5°	5155.5	5153.5	5120.4	5079.5	5028.8	4989.8	4946.9	4888.5	4810.5	4722.8	4615.6
40°	5369.9	5354.3	5321.2	5282.2	5235.4	5202.3	5159.4	5100.9	5024.9	4939.1	4835.8
37.5°	5529.7	5531.7	5496.6	5453.7	5412.8	5381.6	5342.6	5288.0	5221.8	5138.0	5034.7
35°	5681.8	5672.0	5642.8	5605.8	5568.7	5533.6	5492.7	5445.9	5391.3	5313.4	5215.9
32.5°	5781.2	5794.8	5759.7	5720.8	5699.3	5672.0	5629.1	5580.4	5531.7	5453.7	5366.0
30°	5890.3	5878.6	5851.3	5818.2	5802.6	5785.1	5748.0	5701.3	5644.7	5574.6	5492.7
27.5°	5966.3	5960.5	5927.4	5896.2	5888.4	5872.8	5843.5	5802.6	5746.1	5677.9	5601.9
25°	5999.5	6003.4	5972.2	5954.6	5954.6	5944.9	5921.5	5886.4	5829.9	5767.5	5693.5
22.5°	6015.1	6011.2	5989.7	5985.8	5995.6	5987.8	5978.0	5946.9	5896.2	5845.5	5783.1
20°	6024.8	5997.5	5978.0	5993.6	6005.3	6003.4	5995.6	5976.1	5952.7	5909.8	5855.2
17.5°	6003.4	5985.8	5962.4	5985.8	6011.2	6013.1	6005.3	5993.6	5987.8	5960.5	5911.8
15°	5950.8	5937.1	5941.0	5964.4	5993.6	6003.4	6009.2	6022.9	6015.1	5993.6	5950.8
12.5°	5915.7	5898.1	5915.7	5939.1	5954.6	5960.5	6007.3	6032.6	6032.6	6013.1	5985.8
10°	5905.9	5870.8	5894.2	5915.7	5923.5	5958.5	5997.5	6024.8	6038.5	6022.9	5987.8
7.5°	5886.4	5863.0	5872.8	5882.5	5927.4	5952.7	5974.1	6003.4	6022.9	6020.9	5989.7
5°	5876.7	5847.4	5851.3	5892.3	5923.5	5941.0	5948.8	5974.1	6003.4	6009.2	5985.8
2.5°	5851.3	5837.7	5866.9	5870.8	5894.2	5907.9	5915.7	5939.1	5976.1	5989.7	5980.0
0°	5837.7	5818.2	5798.7	5814.3	5853.3	5882.5	5894.2	5929.3	5972.2	5985.8	5964.4



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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°	54.6	52.6	50.7	48.7	50.7	50.7	50.7	48.7	50.7	48.7	48.7
85°	169.6	161.8	155.9	148.1	140.3	134.5	126.7	118.9	116.9	115.0	111.1
82.5°	292.4	282.6	272.9	261.2	249.5	235.8	222.2	206.6	202.7	198.8	193.0
80°	411.3	397.6	384.0	370.3	358.6	345.0	329.4	311.9	300.2	290.4	278.7
77.5°	536.0	516.5	497.0	473.6	460.0	446.4	430.8	413.2	395.7	380.1	362.5
75°	678.3	656.9	637.4	614.0	588.6	563.3	538.0	514.6	489.2	465.8	442.5
72.5°	836.2	805.0	773.8	744.6	713.4	682.2	649.1	617.9	586.7	555.5	522.4
70°	1001.9	962.9	923.9	884.9	844.0	803.0	764.1	725.1	686.1	645.2	608.1
67.5°	1196.8	1151.9	1101.3	1046.7	986.3	933.6	883.0	836.2	789.4	742.6	695.8
65°	1440.4	1378.0	1309.8	1235.8	1165.6	1095.4	1021.4	951.2	896.6	842.0	789.4
62.5°	1740.6	1652.9	1557.4	1461.9	1376.1	1284.5	1198.7	1107.1	1021.4	943.4	879.1
60°	2099.2	1980.3	1863.4	1740.6	1621.7	1496.9	1387.8	1274.7	1167.5	1072.0	978.5
57.5°	2494.9	2356.5	2216.2	2066.1	1904.3	1758.1	1610.0	1461.9	1335.2	1208.5	1103.2
55°	2896.4	2750.2	2592.4	2422.8	2245.4	2058.3	1857.5	1691.9	1518.4	1370.3	1233.8
52.5°	3278.5	3126.4	2962.7	2806.8	2594.3	2379.9	2159.7	1941.4	1738.6	1549.6	1383.9
50°	3619.6	3471.4	3313.6	3132.3	2935.4	2707.4	2461.8	2216.2	1976.4	1754.2	1547.6
47.5°	3931.4	3787.2	3629.3	3448.0	3268.7	3015.3	2767.8	2496.9	2229.8	1974.5	1732.8
45°	4223.8	4077.6	3913.9	3740.4	3533.8	3307.7	3052.4	2779.5	2493.0	2206.4	1927.7
42.5°	4488.9	4342.7	4177.0	3997.7	3793.0	3568.9	3321.3	3046.5	2758.0	2446.2	2140.2
40°	4720.8	4578.6	4418.7	4231.6	4040.6	3804.7	3561.1	3299.9	3001.7	2687.9	2350.7
37.5°	4923.5	4791.0	4633.1	4448.0	4245.2	4034.7	3783.3	3522.1	3253.1	2912.0	2567.0
35°	5102.9	4980.1	4818.3	4642.9	4444.1	4221.9	3986.0	3730.7	3440.2	3120.6	2785.3
32.5°	5258.8	5134.1	4985.9	4810.5	4617.5	4409.0	4167.3	3910.0	3635.2	3309.7	2945.2
30°	5391.3	5270.5	5130.2	4964.5	4779.3	4572.7	4336.9	4077.6	3796.9	3473.4	3112.8
27.5°	5506.3	5391.3	5254.9	5100.9	4923.5	4724.7	4486.9	4225.8	3939.2	3627.4	3266.8
25°	5605.8	5494.7	5368.0	5221.8	5046.3	4851.4	4627.3	4354.4	4067.9	3754.1	3397.4
22.5°	5695.4	5588.2	5461.5	5319.2	5159.4	4964.5	4738.4	4467.4	4177.0	3867.1	3516.3
20°	5775.3	5675.9	5551.2	5405.0	5245.2	5048.3	4824.1	4566.9	4274.5	3970.4	3623.5
17.5°	5839.6	5751.9	5627.2	5473.2	5313.4	5122.4	4904.1	4668.2	4358.3	4058.1	3713.1
15°	5884.5	5798.7	5685.7	5529.7	5373.8	5184.7	4966.4	4722.8	4434.3	4128.3	3787.2
12.5°	5915.7	5824.1	5718.8	5574.6	5418.6	5231.5	5019.1	4779.3	4498.6	4190.7	3851.5
10°	5923.5	5839.6	5734.4	5605.8	5453.7	5272.4	5063.9	4826.1	4551.3	4239.4	3904.1
7.5°	5927.4	5847.4	5751.9	5629.1	5479.1	5303.6	5097.0	4863.1	4590.2	4280.3	3943.1
5°	5925.4	5849.4	5763.6	5644.7	5494.7	5321.2	5118.5	4888.5	4617.5	4307.6	3972.4
2.5°	5919.6	5851.3	5771.4	5656.4	5512.2	5340.7	5139.9	4917.7	4646.8	4331.0	3995.8
0°	5935.2	5876.7	5775.3	5652.5	5516.1	5340.7	5138.0	4921.6	4650.7	4329.1	3993.8





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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°	48.7	46.8	46.8	44.8	42.9	40.9	37.0	35.1	31.2	25.3	19.5
85°	105.3	99.4	93.6	89.7	85.8	81.9	76.0	70.2	62.4	50.7	39.0
82.5°	185.2	173.5	161.8	148.1	136.4	124.7	115.0	105.3	93.6	76.0	58.5
80°	265.1	247.5	230.0	210.5	193.0	173.5	155.9	140.3	124.7	101.4	78.0
77.5°	345.0	321.6	296.3	272.9	247.5	222.2	196.9	175.4	152.0	124.7	97.5
75°	419.1	391.8	368.4	335.3	304.1	270.9	237.8	208.6	179.3	146.2	116.9
72.5°	493.1	458.0	424.9	393.7	358.6	317.7	280.7	243.6	206.6	167.6	132.5
70°	567.2	524.3	483.4	446.4	407.4	366.4	321.6	278.7	233.9	187.1	146.2
67.5°	643.2	594.5	547.7	500.9	456.1	409.3	362.5	313.8	261.2	206.6	161.8
65°	727.0	666.6	610.1	557.5	504.8	454.2	401.5	348.9	290.4	228.1	175.4
62.5°	810.8	744.6	678.3	612.0	553.6	497.0	440.5	382.0	317.7	251.4	189.1
60°	900.5	824.5	748.5	674.4	602.3	539.9	477.5	415.2	346.9	272.9	202.7
57.5°	999.9	908.3	822.5	738.7	656.9	582.8	514.6	448.3	372.3	294.3	218.3
55°	1113.0	999.9	898.6	805.0	715.3	625.7	551.6	483.4	401.5	315.8	235.8
52.5°	1231.9	1101.3	978.5	873.2	777.7	676.4	586.7	510.7	430.8	337.2	251.4
50°	1370.3	1204.6	1068.1	939.5	832.3	727.0	623.7	541.9	460.0	362.5	267.0
47.5°	1512.5	1329.3	1157.8	1017.5	890.8	775.8	666.6	569.2	487.3	385.9	282.6
45°	1678.2	1448.2	1259.2	1093.5	947.3	826.4	709.5	598.4	510.7	409.3	298.2
42.5°	1838.0	1588.6	1364.4	1177.3	1011.6	875.2	748.5	629.6	534.1	432.7	311.9
40°	2027.1	1728.9	1465.8	1257.2	1075.9	921.9	787.5	662.7	555.5	454.2	325.5
37.5°	2208.4	1871.2	1588.6	1344.9	1138.3	968.7	826.4	693.9	575.0	475.6	343.1
35°	2387.7	2029.1	1705.5	1426.8	1202.6	1021.4	865.4	723.1	594.5	493.1	358.6
32.5°	2559.2	2177.2	1824.4	1518.4	1272.8	1070.1	900.5	750.4	614.0	508.7	374.2
30°	2719.1	2317.5	1941.4	1611.9	1337.1	1114.9	933.6	777.7	637.4	522.4	389.8
27.5°	2865.2	2454.0	2058.3	1699.7	1397.5	1155.8	968.7	803.0	656.9	536.0	403.5
25°	2997.8	2576.8	2165.5	1779.6	1452.1	1200.7	1001.9	828.4	674.4	547.7	415.2
22.5°	3122.5	2689.8	2263.0	1859.5	1518.4	1245.5	1033.0	851.8	691.9	559.4	426.9
20°	3231.7	2793.1	2356.5	1939.4	1576.9	1286.4	1060.3	873.2	707.5	567.2	438.6
17.5°	3319.4	2884.7	2440.3	2009.6	1627.5	1321.5	1083.7	892.7	721.2	576.9	446.4
15°	3397.4	2962.7	2510.5	2070.0	1672.4	1350.8	1105.2	908.3	732.9	582.8	456.1
12.5°	3463.6	3029.0	2570.9	2122.6	1711.4	1376.1	1122.7	920.0	742.6	588.6	461.9
10°	3518.2	3081.6	2621.6	2163.6	1742.5	1395.6	1136.4	931.7	750.4	594.5	467.8
7.5°	3559.1	3120.6	2658.6	2198.6	1767.9	1409.2	1148.0	939.5	758.2	598.4	477.5
5°	3590.3	3153.7	2687.9	2222.0	1787.4	1428.7	1161.7	949.2	766.0	602.3	477.5
2.5°	3613.7	3181.0	2711.3	2241.5	1803.0	1424.8	1161.7	947.3	766.0	602.3	475.6
0°	3609.8	3183.0	2709.3	2241.5	1803.0	1420.9	1161.7	945.3	766.0	602.3	475.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.6	9.7	3.9	0.0
85°	29.2	19.5	9.7	0.0
82.5°	42.9	27.3	13.6	0.0
80°	56.5	37.0	17.5	0.0
77.5°	72.1	46.8	23.4	0.0
75°	85.8	54.6	27.3	0.0
72.5°	99.4	64.3	31.2	0.0
70°	111.1	72.1	35.1	0.0
67.5°	122.8	81.9	40.9	0.0
65°	132.5	89.7	44.8	0.0
62.5°	140.3	99.4	48.7	0.0
60°	150.1	107.2	52.6	0.0
57.5°	157.9	113.1	56.5	0.0
55°	165.7	116.9	60.4	0.0
52.5°	173.5	122.8	64.3	0.0
50°	181.3	128.6	68.2	0.0
47.5°	189.1	132.5	70.2	0.0
45°	200.8	138.4	74.1	0.0
42.5°	210.5	142.3	78.0	0.0
40°	220.3	146.2	79.9	0.0
37.5°	230.0	150.1	83.8	0.0
35°	239.7	154.0	85.8	0.0
32.5°	247.5	157.9	87.7	0.0
30°	255.3	161.8	89.7	0.0
27.5°	263.1	163.7	91.6	0.0
25°	269.0	167.6	93.6	0.0
22.5°	274.8	169.6	95.5	0.0
20°	278.7	171.5	97.5	0.0
17.5°	284.6	173.5	99.4	0.0
15°	286.5	175.4	103.3	0.0
12.5°	290.4	177.4	103.3	0.0
10°	292.4	179.3	103.3	0.0
7.5°	296.3	179.3	103.3	0.0
5°	294.3	179.3	103.3	0.0
2.5°	294.3	179.3	103.3	0.0
0°	292.4	179.3	103.3	0.0

(END OF REPORT)