

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: P628506

Luminaire Tested: **IFLD-S-SA3D-940-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628506  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-940-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

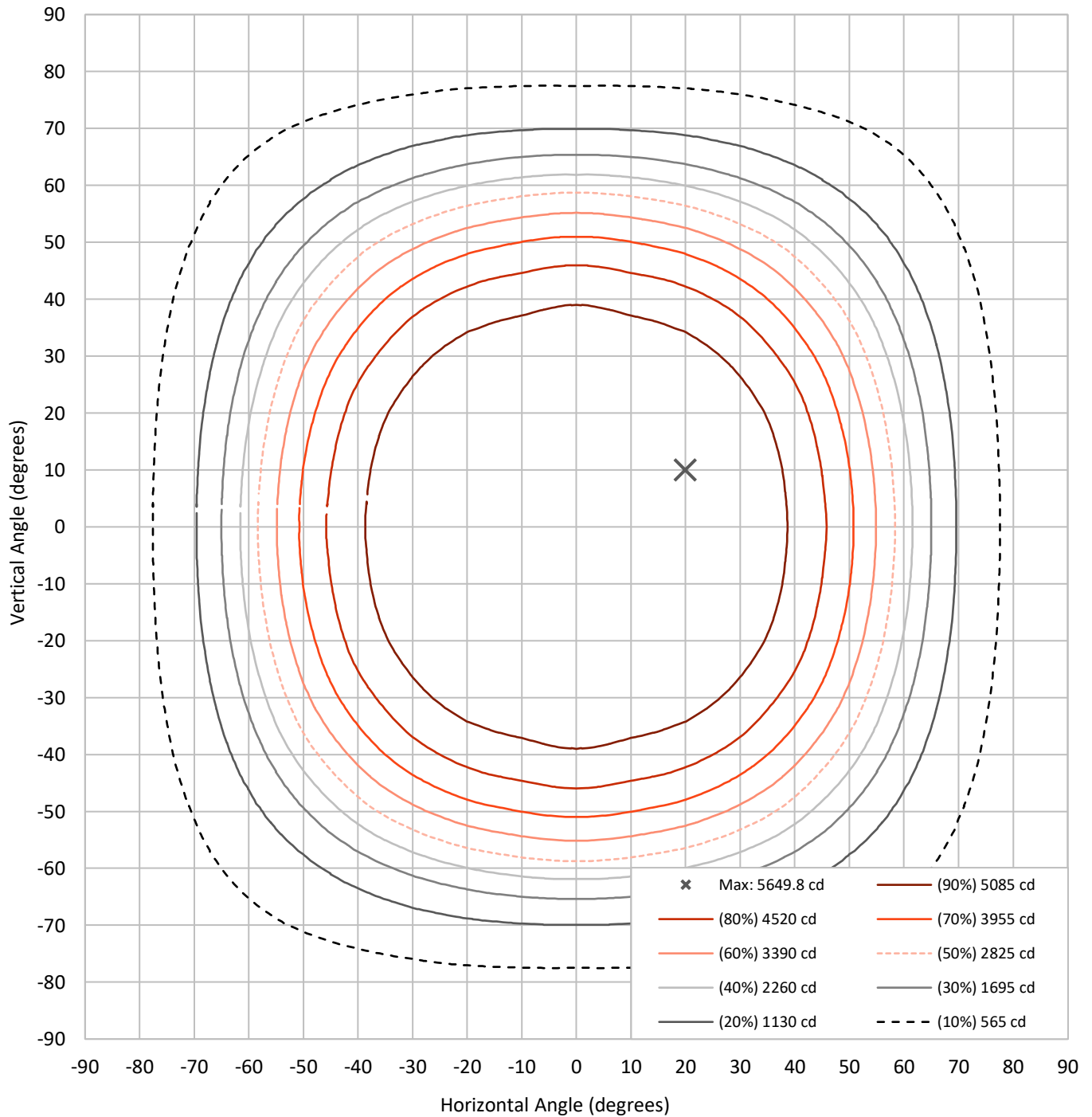
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17332.9 lumens	Max Intensity:	5649.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	94.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	10635.8 lumens	Field Lumens:	12750.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 184.1  
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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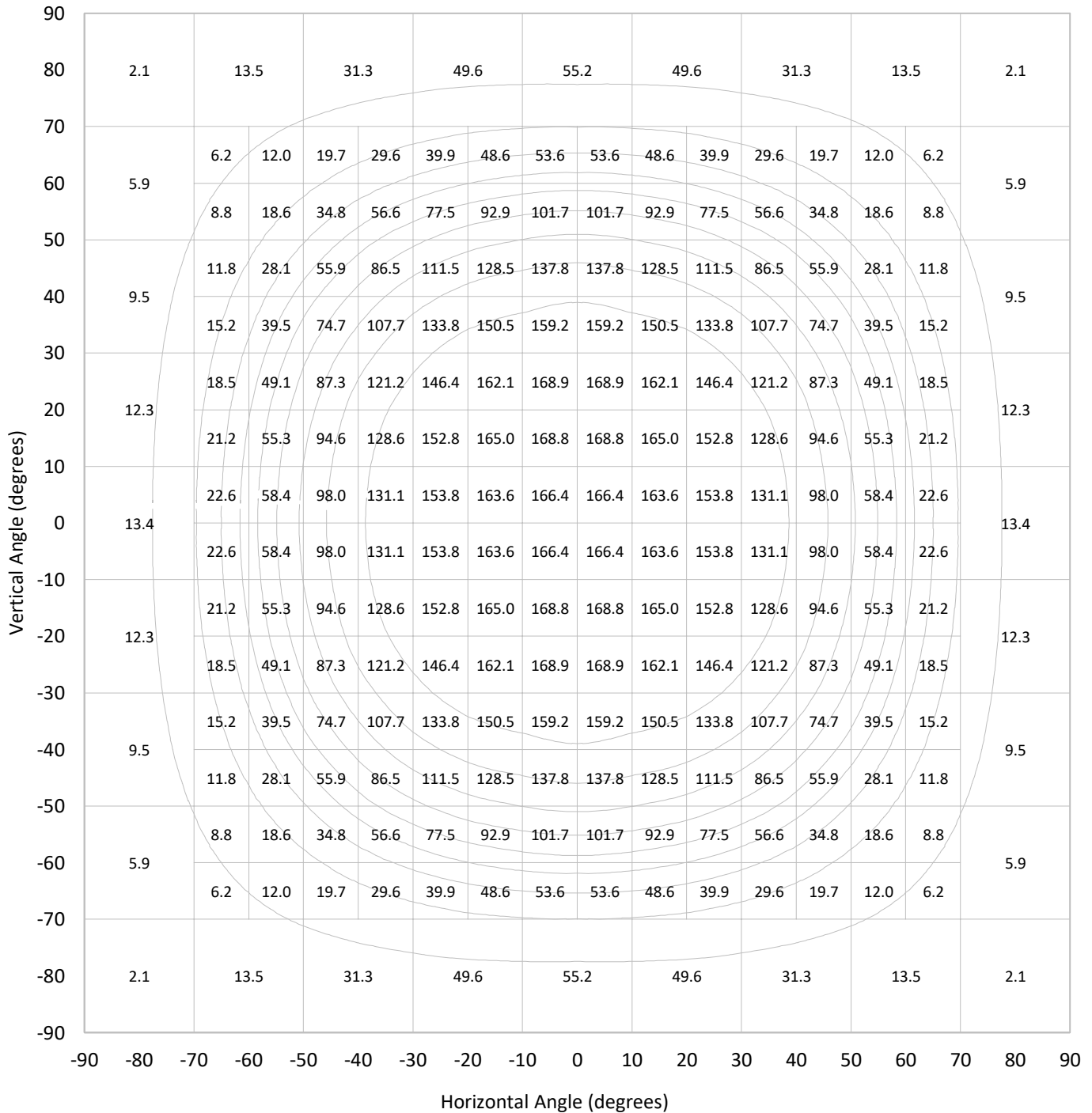
### Iso-Candela Plot





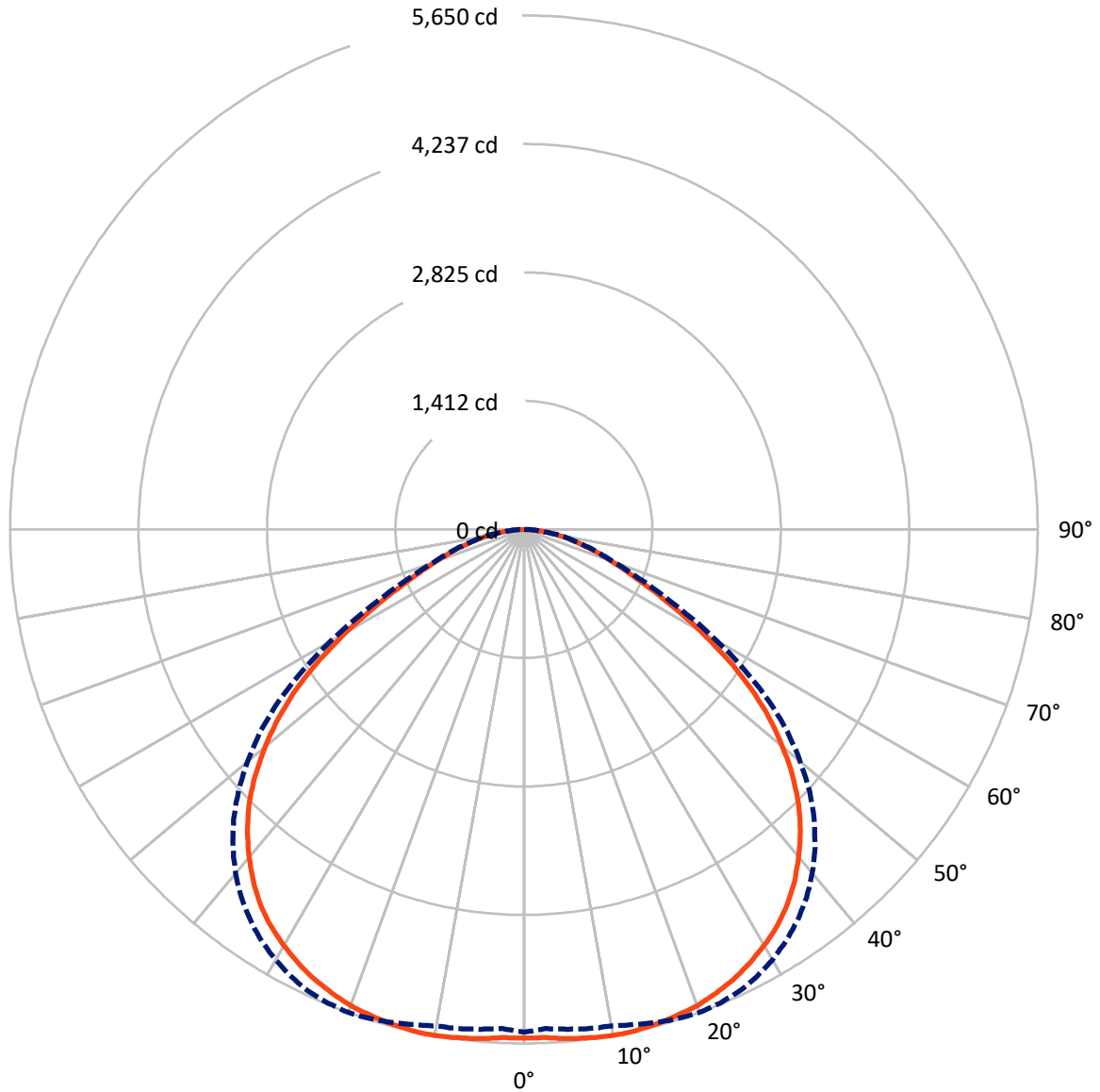
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### Lumen Table



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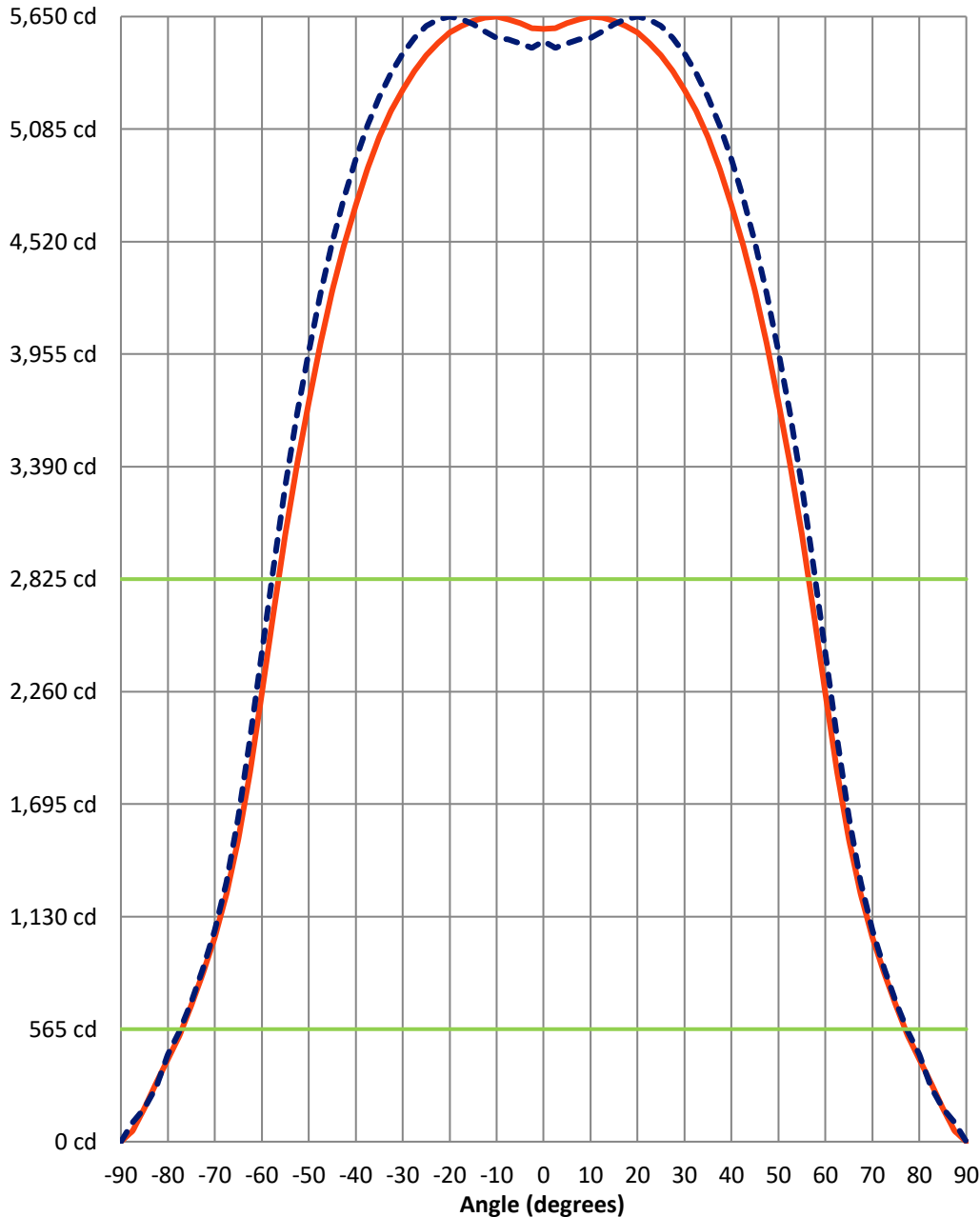
### Luminous Intensity Polar Plot



— 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: 10635.8  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 12750.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4582.4  
 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°	45.6	49.2	51.1	52.9	54.7	56.5	58.4	56.5	54.7	54.7	52.9
85°	122.2	125.8	127.7	140.4	153.2	160.5	169.6	167.8	167.8	166.0	164.1
82.5°	244.4	255.3	264.4	277.2	284.5	295.4	302.7	297.3	293.6	286.3	280.9
80°	434.0	437.7	439.5	441.3	432.2	430.4	426.7	421.3	414.0	404.9	395.7
77.5°	552.6	556.2	559.9	556.2	554.4	552.6	547.1	541.6	534.3	527.1	516.1
75°	731.3	731.3	731.3	725.8	722.2	716.7	707.6	698.5	685.7	671.1	654.7
72.5°	921.0	919.1	917.3	906.4	897.3	886.3	873.6	862.6	848.0	831.6	809.7
70°	1119.8	1123.4	1125.2	1110.6	1099.7	1085.1	1068.7	1048.6	1026.7	1003.0	972.0
67.5°	1393.3	1389.7	1386.0	1366.0	1351.4	1331.3	1307.6	1278.4	1245.6	1209.1	1165.3
65°	1732.5	1738.0	1727.0	1707.0	1679.6	1646.8	1610.3	1568.4	1519.1	1464.4	1402.4
62.5°	2142.9	2152.0	2139.2	2113.7	2079.0	2035.3	1984.2	1924.0	1856.5	1779.9	1703.3
60°	2609.7	2607.9	2584.2	2549.5	2503.9	2449.2	2392.7	2327.0	2250.5	2161.1	2068.1
57.5°	3038.3	3034.6	3005.5	2970.8	2925.2	2866.9	2806.7	2737.4	2657.1	2562.3	2454.7
55°	3423.1	3419.4	3390.3	3353.8	3306.4	3248.0	3193.3	3127.7	3049.2	2948.9	2834.0
52.5°	3764.1	3766.0	3740.4	3700.3	3649.2	3592.7	3539.8	3474.2	3399.4	3299.1	3187.8
50°	4077.8	4076.0	4048.6	4012.2	3964.7	3910.0	3857.1	3791.5	3713.1	3616.4	3508.8
47.5°	4369.6	4365.9	4334.9	4294.8	4245.6	4198.2	4148.9	4090.6	4008.5	3911.8	3804.2
45°	4614.0	4606.7	4575.7	4537.4	4490.0	4448.0	4404.2	4360.5	4272.9	4183.6	4081.5
42.5°	4823.7	4821.9	4790.9	4752.6	4705.2	4668.7	4628.6	4573.9	4500.9	4418.8	4318.5
40°	5024.3	5009.7	4978.7	4942.2	4898.5	4867.5	4827.3	4772.6	4701.5	4621.3	4524.6
37.5°	5173.9	5175.7	5142.8	5102.7	5064.4	5035.2	4998.8	4947.7	4885.7	4807.3	4710.6
35°	5316.1	5307.0	5279.6	5245.0	5210.3	5177.5	5139.2	5095.4	5044.4	4971.4	4880.2
32.5°	5409.1	5421.9	5389.0	5352.6	5332.5	5307.0	5266.9	5221.3	5175.7	5102.7	5020.7
30°	5511.2	5500.3	5474.8	5443.8	5429.2	5412.8	5378.1	5334.3	5281.4	5215.8	5139.2
27.5°	5582.4	5576.9	5545.9	5516.7	5509.4	5494.8	5467.5	5429.2	5376.3	5312.5	5241.3
25°	5613.4	5617.0	5587.8	5571.4	5571.4	5562.3	5540.4	5507.6	5454.7	5396.3	5327.0
22.5°	5628.0	5624.3	5604.2	5600.6	5609.7	5602.4	5593.3	5564.1	5516.7	5469.3	5410.9
20°	5637.1	5611.5	5593.3	5607.9	5618.8	5617.0	5609.7	5591.5	5569.6	5529.5	5478.4
17.5°	5617.0	5600.6	5578.7	5600.6	5624.3	5626.1	5618.8	5607.9	5602.4	5576.9	5531.3
15°	5567.8	5555.0	5558.7	5580.5	5607.9	5617.0	5622.5	5635.2	5628.0	5607.9	5567.8
12.5°	5534.9	5518.5	5534.9	5556.8	5571.4	5576.9	5620.7	5644.4	5644.4	5626.1	5600.6
10°	5525.8	5493.0	5514.9	5534.9	5542.2	5575.1	5611.5	5637.1	5649.8	5635.2	5602.4
7.5°	5507.6	5485.7	5494.8	5503.9	5545.9	5569.6	5589.7	5617.0	5635.2	5633.4	5604.2
5°	5498.5	5471.1	5474.8	5513.1	5542.2	5558.7	5565.9	5589.7	5617.0	5622.5	5600.6
2.5°	5474.8	5462.0	5489.4	5493.0	5514.9	5527.7	5534.9	5556.8	5591.5	5604.2	5595.1
0°	5462.0	5443.8	5425.5	5440.1	5476.6	5503.9	5514.9	5547.7	5587.8	5600.6	5580.5



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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°	51.1	49.2	47.4	45.6	47.4	47.4	47.4	45.6	47.4	45.6	45.6
85°	158.7	151.4	145.9	138.6	131.3	125.8	118.5	111.2	109.4	107.6	104.0
82.5°	273.6	264.4	255.3	244.4	233.4	220.7	207.9	193.3	189.7	186.0	180.5
80°	384.8	372.0	359.3	346.5	335.6	322.8	308.2	291.8	280.9	271.7	260.8
77.5°	501.5	483.3	465.0	443.2	430.4	417.6	403.0	386.6	370.2	355.6	339.2
75°	634.6	614.6	596.4	574.5	550.8	527.1	503.3	481.5	457.7	435.9	414.0
72.5°	782.4	753.2	724.0	696.7	667.5	638.3	607.3	578.1	548.9	519.8	488.8
70°	937.4	900.9	864.4	828.0	789.7	751.4	714.9	678.4	641.9	603.6	569.0
67.5°	1119.8	1077.8	1030.4	979.3	922.8	873.6	826.1	782.4	738.6	694.8	651.1
65°	1347.7	1289.4	1225.5	1156.2	1090.6	1024.9	955.6	890.0	838.9	787.8	738.6
62.5°	1628.6	1546.5	1457.1	1367.8	1287.5	1201.8	1121.6	1035.9	955.6	882.7	822.5
60°	1964.1	1852.9	1743.5	1628.6	1517.3	1400.6	1298.5	1192.7	1092.4	1003.0	915.5
57.5°	2334.3	2204.9	2073.6	1933.1	1781.8	1645.0	1506.4	1367.8	1249.2	1130.7	1032.2
55°	2710.0	2573.2	2425.5	2266.9	2100.9	1925.8	1738.0	1583.0	1420.7	1282.1	1154.4
52.5°	3067.5	2925.2	2772.0	2626.1	2427.4	2226.7	2020.7	1816.4	1626.7	1449.8	1294.8
50°	3386.6	3248.0	3100.3	2930.7	2746.5	2533.1	2303.3	2073.6	1849.2	1641.3	1448.0
47.5°	3678.4	3543.5	3395.7	3226.1	3058.4	2821.3	2589.7	2336.2	2086.3	1847.4	1621.3
45°	3952.0	3815.2	3662.0	3499.7	3306.4	3094.8	2855.9	2600.6	2332.5	2064.4	1803.6
42.5°	4200.0	4063.2	3908.2	3740.4	3548.9	3339.2	3107.6	2850.5	2580.5	2288.7	2002.4
40°	4417.0	4283.9	4134.3	3959.3	3780.5	3559.9	3331.9	3087.5	2808.5	2514.9	2199.4
37.5°	4606.7	4482.7	4334.9	4161.7	3972.0	3775.1	3539.8	3295.4	3043.8	2724.6	2401.8
35°	4774.5	4659.6	4508.2	4344.1	4158.0	3950.1	3729.5	3490.6	3218.8	2919.8	2606.1
32.5°	4920.4	4803.6	4665.0	4500.9	4320.4	4125.2	3899.1	3658.4	3401.2	3096.7	2755.6
30°	5044.4	4931.3	4800.0	4645.0	4471.7	4278.4	4057.7	3815.2	3552.6	3249.8	2912.5
27.5°	5152.0	5044.4	4916.7	4772.6	4606.7	4420.7	4198.2	3953.8	3685.7	3393.9	3056.5
25°	5245.0	5141.0	5022.5	4885.7	4721.6	4539.2	4329.5	4074.2	3806.1	3512.5	3178.7
22.5°	5328.9	5228.6	5110.0	4976.9	4827.3	4645.0	4433.4	4179.9	3908.2	3618.2	3290.0
20°	5403.6	5310.6	5193.9	5057.1	4907.6	4723.4	4513.7	4272.9	3999.4	3714.9	3390.3
17.5°	5463.8	5381.8	5265.0	5121.0	4971.4	4792.7	4588.4	4367.8	4077.8	3797.0	3474.2
15°	5505.8	5425.5	5319.7	5173.9	5028.0	4851.1	4646.8	4418.8	4148.9	3862.6	3543.5
12.5°	5534.9	5449.2	5350.8	5215.8	5069.9	4894.8	4696.0	4471.7	4209.1	3921.0	3603.6
10°	5542.2	5463.8	5365.3	5245.0	5102.7	4933.1	4738.0	4515.5	4258.4	3966.6	3652.9
7.5°	5545.9	5471.1	5381.8	5266.9	5126.4	4962.3	4769.0	4550.1	4294.8	4004.9	3689.4
5°	5544.1	5472.9	5392.7	5281.4	5141.0	4978.7	4789.0	4573.9	4320.4	4030.4	3716.7
2.5°	5538.6	5474.8	5400.0	5292.4	5157.4	4997.0	4809.1	4601.2	4347.7	4052.3	3738.6
0°	5553.2	5498.5	5403.6	5288.7	5161.1	4997.0	4807.3	4604.9	4351.4	4050.4	3736.8





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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°	45.6	43.8	43.8	41.9	40.1	38.3	34.7	32.8	29.2	23.7	18.2
85°	98.5	93.0	87.5	83.9	80.2	76.6	71.1	65.7	58.4	47.4	36.5
82.5°	173.3	162.3	151.4	138.6	127.7	116.7	107.6	98.5	87.5	71.1	54.7
80°	248.0	231.6	215.2	197.0	180.5	162.3	145.9	131.3	116.7	94.8	72.9
77.5°	322.8	300.9	277.2	255.3	231.6	207.9	184.2	164.1	142.2	116.7	91.2
75°	392.1	366.6	344.7	313.7	284.5	253.5	222.5	195.1	167.8	136.8	109.4
72.5°	461.4	428.6	397.6	368.4	335.6	297.3	262.6	228.0	193.3	156.8	124.0
70°	530.7	490.6	452.3	417.6	381.2	342.9	300.9	260.8	218.8	175.1	136.8
67.5°	601.8	556.2	512.5	468.7	426.7	383.0	339.2	293.6	244.4	193.3	151.4
65°	680.2	623.7	570.8	521.6	472.3	424.9	375.7	326.4	271.7	213.4	164.1
62.5°	758.7	696.7	634.6	572.6	517.9	465.0	412.2	357.4	297.3	235.3	176.9
60°	842.6	771.4	700.3	631.0	563.5	505.2	446.8	388.4	324.6	255.3	189.7
57.5°	935.6	849.8	769.6	691.2	614.6	545.3	481.5	419.5	348.3	275.4	204.3
55°	1041.3	935.6	840.7	753.2	669.3	585.4	516.1	452.3	375.7	295.4	220.7
52.5°	1152.6	1030.4	915.5	817.0	727.7	632.8	548.9	477.8	403.0	315.5	235.3
50°	1282.1	1127.0	999.4	879.0	778.7	680.2	583.6	507.0	430.4	339.2	249.8
47.5°	1415.2	1243.8	1083.3	952.0	833.4	725.8	623.7	532.5	455.9	361.1	264.4
45°	1570.2	1355.0	1178.1	1023.1	886.3	773.3	663.8	559.9	477.8	383.0	279.0
42.5°	1719.8	1486.3	1276.6	1101.5	946.5	818.8	700.3	589.1	499.7	404.9	291.8
40°	1896.7	1617.6	1371.4	1176.3	1006.7	862.6	736.8	620.1	519.8	424.9	304.6
37.5°	2066.3	1750.8	1486.3	1258.4	1065.0	906.4	773.3	649.2	538.0	445.0	321.0
35°	2234.0	1898.5	1595.7	1335.0	1125.2	955.6	809.7	676.6	556.2	461.4	335.6
32.5°	2394.5	2037.1	1707.0	1420.7	1190.9	1001.2	842.6	702.1	574.5	476.0	350.2
30°	2544.1	2168.4	1816.4	1508.2	1251.1	1043.2	873.6	727.7	596.4	488.8	364.7
27.5°	2680.8	2296.0	1925.8	1590.3	1307.6	1081.5	906.4	751.4	614.6	501.5	377.5
25°	2804.9	2410.9	2026.1	1665.0	1358.7	1123.4	937.4	775.1	631.0	512.5	388.4
22.5°	2921.6	2516.7	2117.3	1739.8	1420.7	1165.3	966.6	797.0	647.4	523.4	399.4
20°	3023.7	2613.4	2204.9	1814.6	1475.4	1203.6	992.1	817.0	662.0	530.7	410.3
17.5°	3105.8	2699.1	2283.3	1880.2	1522.8	1236.5	1014.0	835.3	674.8	539.8	417.6
15°	3178.7	2772.0	2348.9	1936.8	1564.7	1263.8	1034.0	849.8	685.7	545.3	426.7
12.5°	3240.7	2834.0	2405.5	1986.0	1601.2	1287.5	1050.5	860.8	694.8	550.8	432.2
10°	3291.8	2883.3	2452.9	2024.3	1630.4	1305.8	1063.2	871.7	702.1	556.2	437.7
7.5°	3330.1	2919.8	2487.5	2057.1	1654.1	1318.5	1074.2	879.0	709.4	559.9	446.8
5°	3359.3	2950.8	2514.9	2079.0	1672.3	1336.8	1086.9	888.1	716.7	563.5	446.8
2.5°	3381.1	2976.3	2536.8	2097.3	1686.9	1333.1	1086.9	886.3	716.7	563.5	445.0
0°	3377.5	2978.1	2535.0	2097.3	1686.9	1329.5	1086.9	884.5	716.7	563.5	445.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.8	9.1	3.6	0.0
85°	27.4	18.2	9.1	0.0
82.5°	40.1	25.5	12.8	0.0
80°	52.9	34.7	16.4	0.0
77.5°	67.5	43.8	21.9	0.0
75°	80.2	51.1	25.5	0.0
72.5°	93.0	60.2	29.2	0.0
70°	104.0	67.5	32.8	0.0
67.5°	114.9	76.6	38.3	0.0
65°	124.0	83.9	41.9	0.0
62.5°	131.3	93.0	45.6	0.0
60°	140.4	100.3	49.2	0.0
57.5°	147.7	105.8	52.9	0.0
55°	155.0	109.4	56.5	0.0
52.5°	162.3	114.9	60.2	0.0
50°	169.6	120.4	63.8	0.0
47.5°	176.9	124.0	65.7	0.0
45°	187.8	129.5	69.3	0.0
42.5°	197.0	133.1	72.9	0.0
40°	206.1	136.8	74.8	0.0
37.5°	215.2	140.4	78.4	0.0
35°	224.3	144.1	80.2	0.0
32.5°	231.6	147.7	82.1	0.0
30°	238.9	151.4	83.9	0.0
27.5°	246.2	153.2	85.7	0.0
25°	251.7	156.8	87.5	0.0
22.5°	257.1	158.7	89.4	0.0
20°	260.8	160.5	91.2	0.0
17.5°	266.3	162.3	93.0	0.0
15°	268.1	164.1	96.7	0.0
12.5°	271.7	166.0	96.7	0.0
10°	273.6	167.8	96.7	0.0
7.5°	277.2	167.8	96.7	0.0
5°	275.4	167.8	96.7	0.0
2.5°	275.4	167.8	96.7	0.0
0°	273.6	167.8	96.7	0.0

(END OF REPORT)