

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: P628389

Luminaire Tested: **IFLD-S-SA3C-830-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628389  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

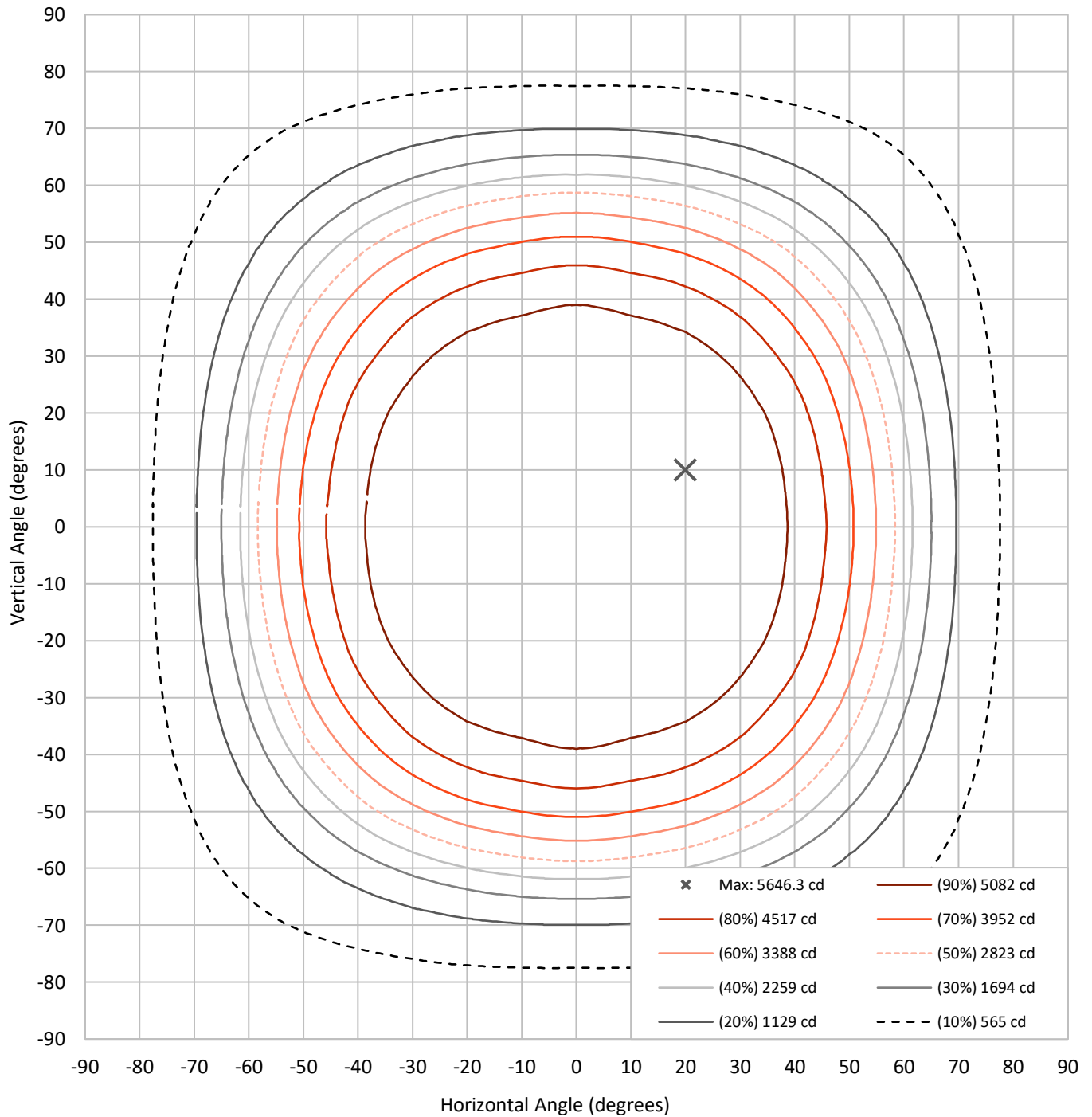
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	17322.2 lumens	Max Intensity:	5646.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	107.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	10629.3 lumens	Field Lumens:	12742.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 160.8  
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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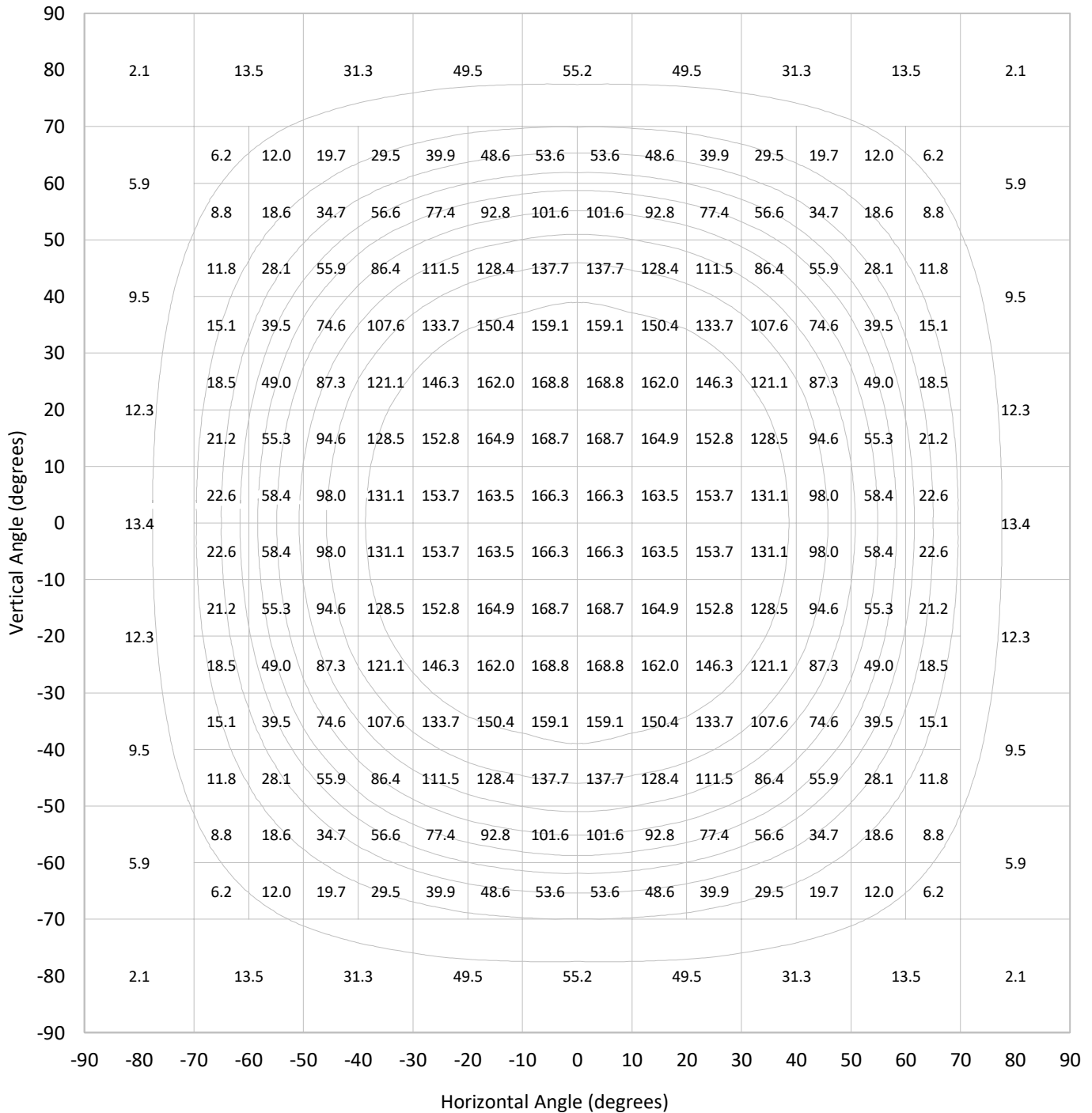
### Iso-Candela Plot





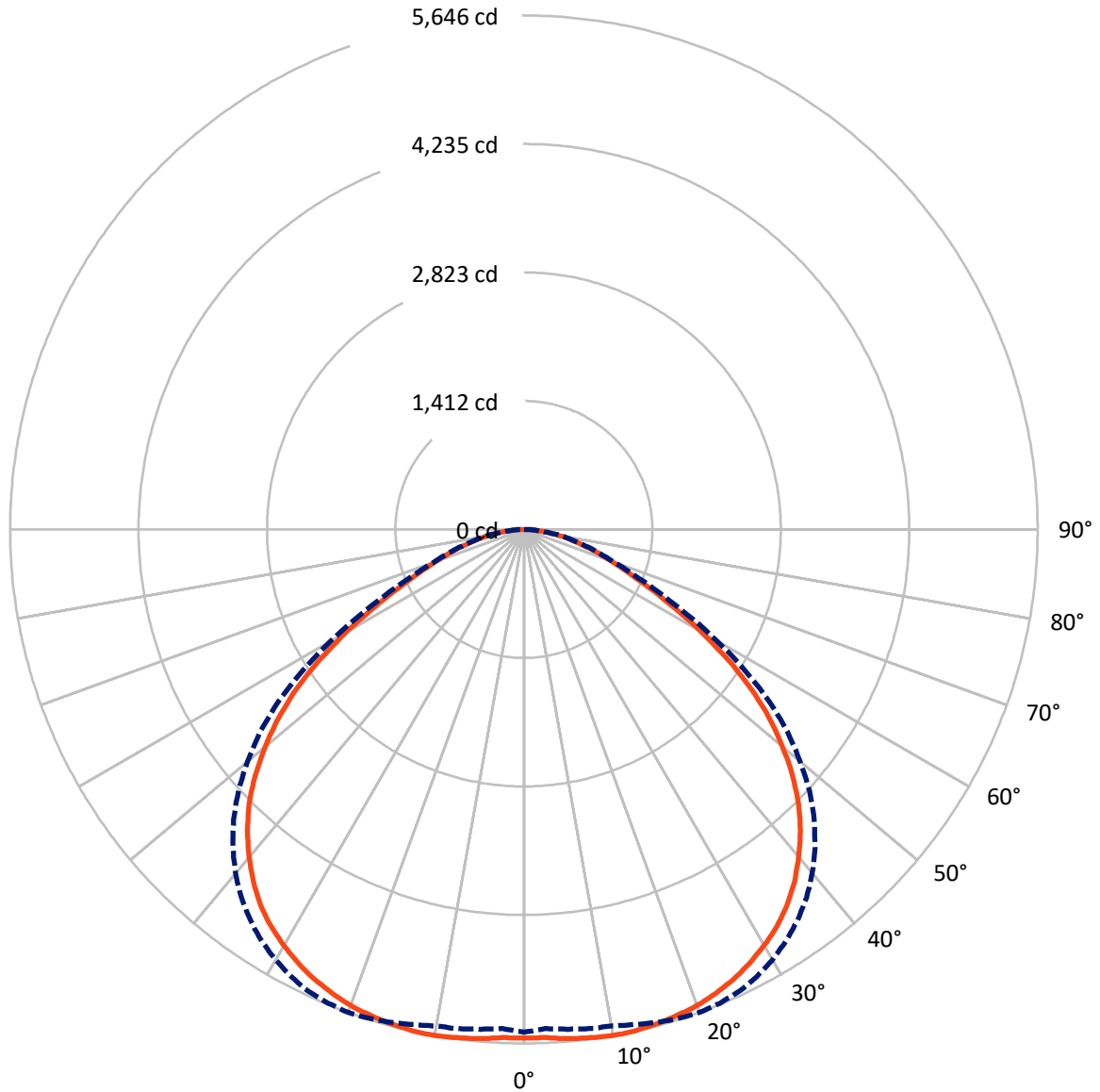
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### Lumen Table



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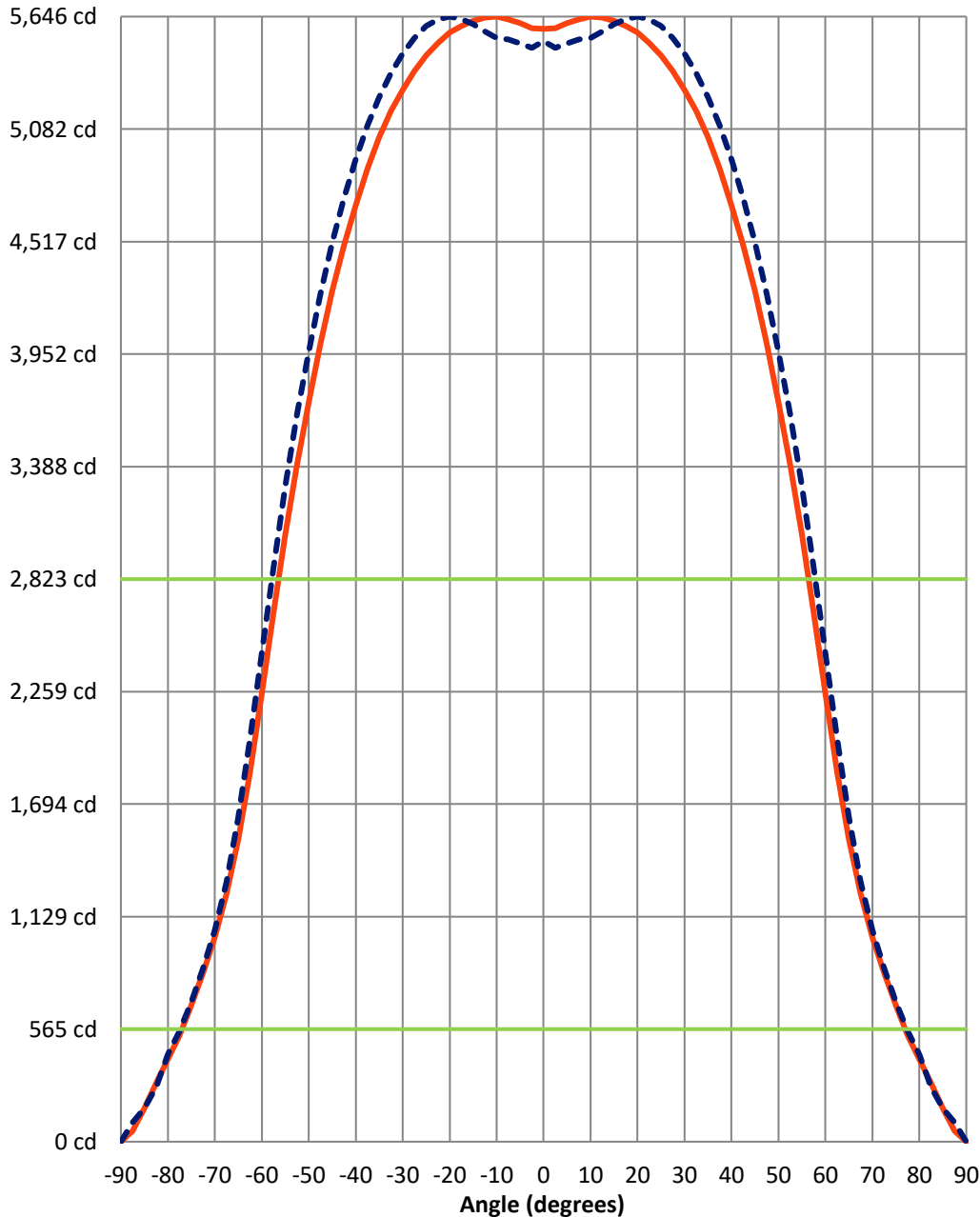
### Luminous Intensity Polar Plot



— 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: 10629.3  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 12742.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4579.5  
 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	51.0	52.9	54.7	56.5	58.3	56.5	54.7	54.7	52.9
85°	122.1	125.8	127.6	140.3	153.1	160.4	169.5	167.7	167.7	165.9	164.0
82.5°	244.2	255.2	264.3	277.0	284.3	295.3	302.5	297.1	293.4	286.1	280.7
80°	433.8	437.4	439.2	441.1	432.0	430.1	426.5	421.0	413.7	404.6	395.5
77.5°	552.2	555.9	559.5	555.9	554.1	552.2	546.8	541.3	534.0	526.7	515.8
75°	730.9	730.9	730.9	725.4	721.7	716.3	707.2	698.0	685.3	670.7	654.3
72.5°	920.4	918.6	916.8	905.8	896.7	885.8	873.0	862.1	847.5	831.1	809.2
70°	1119.1	1122.7	1124.5	1109.9	1099.0	1084.4	1068.0	1048.0	1026.1	1002.4	971.4
67.5°	1392.4	1388.8	1385.2	1365.1	1350.5	1330.5	1306.8	1277.6	1244.8	1208.4	1164.6
65°	1731.4	1736.9	1726.0	1705.9	1678.6	1645.8	1609.3	1567.4	1518.2	1463.5	1401.6
62.5°	2141.5	2150.6	2137.9	2112.4	2077.7	2034.0	1983.0	1922.8	1855.4	1778.8	1702.3
60°	2608.1	2606.3	2582.6	2548.0	2502.4	2447.7	2391.2	2325.6	2249.1	2159.8	2066.8
57.5°	3036.4	3032.8	3003.6	2969.0	2923.4	2865.1	2804.9	2735.7	2655.5	2560.7	2453.2
55°	3421.0	3417.3	3388.2	3351.7	3304.3	3246.0	3191.3	3125.7	3047.3	2947.1	2832.3
52.5°	3761.8	3763.6	3738.1	3698.0	3647.0	3590.5	3537.6	3472.0	3397.3	3297.0	3185.9
50°	4075.3	4073.5	4046.1	4009.7	3962.3	3907.6	3854.7	3789.1	3710.8	3614.2	3506.6
47.5°	4366.9	4363.2	4332.3	4292.2	4243.0	4195.6	4146.4	4088.0	4006.0	3909.4	3801.9
45°	4611.1	4603.8	4572.8	4534.6	4487.2	4445.3	4401.5	4357.8	4270.3	4181.0	4078.9
42.5°	4820.7	4818.9	4787.9	4749.6	4702.2	4665.8	4625.7	4571.0	4498.1	4416.1	4315.9
40°	5021.2	5006.6	4975.6	4939.2	4895.4	4864.5	4824.4	4769.7	4698.6	4618.4	4521.8
37.5°	5170.6	5172.5	5139.7	5099.6	5061.3	5032.1	4995.7	4944.6	4882.7	4804.3	4707.7
35°	5312.8	5303.7	5276.4	5241.7	5207.1	5174.3	5136.0	5092.3	5041.2	4968.3	4877.2
32.5°	5405.8	5418.5	5385.7	5349.3	5329.2	5303.7	5263.6	5218.0	5172.5	5099.6	5017.5
30°	5507.8	5496.9	5471.4	5440.4	5425.8	5409.4	5374.8	5331.0	5278.2	5212.6	5136.0
27.5°	5578.9	5573.4	5542.4	5513.3	5506.0	5491.4	5464.1	5425.8	5372.9	5309.2	5238.1
25°	5609.9	5613.5	5584.4	5568.0	5568.0	5558.9	5537.0	5504.2	5451.3	5393.0	5323.7
22.5°	5624.5	5620.8	5600.8	5597.1	5606.2	5598.9	5589.8	5560.7	5513.3	5465.9	5407.6
20°	5633.6	5608.1	5589.8	5604.4	5615.4	5613.5	5606.2	5588.0	5566.1	5526.0	5475.0
17.5°	5613.5	5597.1	5575.3	5597.1	5620.8	5622.6	5615.4	5604.4	5598.9	5573.4	5527.9
15°	5564.3	5551.6	5555.2	5577.1	5604.4	5613.5	5619.0	5631.8	5624.5	5604.4	5564.3
12.5°	5531.5	5515.1	5531.5	5553.4	5568.0	5573.4	5617.2	5640.9	5640.9	5622.6	5597.1
10°	5522.4	5489.6	5511.5	5531.5	5538.8	5571.6	5608.1	5633.6	5646.3	5631.8	5598.9
7.5°	5504.2	5482.3	5491.4	5500.5	5542.4	5566.1	5586.2	5613.5	5631.8	5629.9	5600.8
5°	5495.1	5467.7	5471.4	5509.6	5538.8	5555.2	5562.5	5586.2	5613.5	5619.0	5597.1
2.5°	5471.4	5458.6	5485.9	5489.6	5511.5	5524.2	5531.5	5553.4	5588.0	5600.8	5591.7
0°	5458.6	5440.4	5422.2	5436.7	5473.2	5500.5	5511.5	5544.3	5584.4	5597.1	5577.1



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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°	51.0	49.2	47.4	45.6	47.4	47.4	47.4	45.6	47.4	45.6	45.6
85°	158.6	151.3	145.8	138.5	131.2	125.8	118.5	111.2	109.4	107.5	103.9
82.5°	273.4	264.3	255.2	244.2	233.3	220.5	207.8	193.2	189.5	185.9	180.4
80°	384.6	371.8	359.0	346.3	335.4	322.6	308.0	291.6	280.7	271.6	260.6
77.5°	501.2	483.0	464.8	442.9	430.1	417.4	402.8	386.4	370.0	355.4	339.0
75°	634.3	614.2	596.0	574.1	550.4	526.7	503.0	481.2	457.5	435.6	413.7
72.5°	781.9	752.7	723.6	696.2	667.1	637.9	606.9	577.8	548.6	519.4	488.4
70°	936.8	900.4	863.9	827.4	789.2	750.9	714.4	678.0	641.5	603.3	568.6
67.5°	1119.1	1077.1	1029.8	978.7	922.2	873.0	825.6	781.9	738.1	694.4	650.7
65°	1346.9	1288.6	1224.8	1155.5	1089.9	1024.3	955.0	889.4	838.4	787.4	738.1
62.5°	1627.6	1545.5	1456.2	1366.9	1286.7	1201.1	1120.9	1035.2	955.0	882.1	822.0
60°	1962.9	1851.7	1742.4	1627.6	1516.4	1399.7	1297.7	1192.0	1091.7	1002.4	914.9
57.5°	2332.9	2203.5	2072.3	1931.9	1780.7	1644.0	1505.4	1366.9	1248.5	1130.0	1031.6
55°	2708.3	2571.7	2424.0	2265.5	2099.6	1924.6	1736.9	1582.0	1419.8	1281.3	1153.7
52.5°	3065.6	2923.4	2770.3	2624.5	2425.8	2225.4	2019.4	1815.3	1625.7	1448.9	1294.0
50°	3384.5	3246.0	3098.4	2928.9	2744.8	2531.6	2301.9	2072.3	1848.1	1640.3	1447.1
47.5°	3676.1	3541.3	3393.6	3224.1	3056.5	2819.5	2588.1	2334.7	2085.0	1846.3	1620.3
45°	3949.5	3812.8	3659.7	3497.5	3304.3	3092.9	2854.2	2599.0	2331.1	2063.2	1802.5
42.5°	4197.4	4060.7	3905.8	3738.1	3546.7	3337.1	3105.7	2848.7	2578.9	2287.3	2001.2
40°	4414.3	4281.2	4131.8	3956.8	3778.2	3557.7	3329.8	3085.6	2806.8	2513.3	2198.0
37.5°	4603.8	4479.9	4332.3	4159.1	3969.6	3772.7	3537.6	3293.4	3041.9	2722.9	2400.3
35°	4771.5	4656.7	4505.4	4341.4	4155.5	3947.7	3727.2	3488.4	3216.8	2917.9	2604.5
32.5°	4917.3	4800.7	4662.1	4498.1	4317.7	4122.7	3896.7	3656.1	3399.1	3094.7	2753.9
30°	5041.2	4928.2	4797.0	4642.1	4469.0	4275.8	4055.2	3812.8	3550.4	3247.8	2910.7
27.5°	5148.8	5041.2	4913.7	4769.7	4603.8	4417.9	4195.6	3951.3	3683.4	3391.8	3054.6
25°	5241.7	5137.8	5019.4	4882.7	4718.6	4536.4	4326.8	4071.6	3803.7	3510.3	3176.7
22.5°	5325.6	5225.3	5106.9	4973.8	4824.4	4642.1	4430.7	4177.3	3905.8	3616.0	3287.9
20°	5400.3	5307.3	5190.7	5054.0	4904.5	4720.5	4510.9	4270.3	3996.9	3712.6	3388.2
17.5°	5460.4	5378.4	5261.8	5117.8	4968.3	4789.7	4585.6	4365.1	4075.3	3794.6	3472.0
15°	5502.4	5422.2	5316.4	5170.6	5024.8	4848.0	4643.9	4416.1	4146.4	3860.2	3541.3
12.5°	5531.5	5445.9	5347.4	5212.6	5066.8	4891.8	4693.1	4469.0	4206.5	3918.5	3601.4
10°	5538.8	5460.4	5362.0	5241.7	5099.6	4930.1	4735.0	4512.7	4255.7	3964.1	3650.6
7.5°	5542.4	5467.7	5378.4	5263.6	5123.3	4959.2	4766.0	4547.3	4292.2	4002.4	3687.1
5°	5540.6	5469.5	5389.4	5278.2	5137.8	4975.6	4786.1	4571.0	4317.7	4027.9	3714.4
2.5°	5535.2	5471.4	5396.6	5289.1	5154.2	4993.9	4806.1	4598.4	4345.0	4049.8	3736.3
0°	5549.7	5495.1	5400.3	5285.5	5157.9	4993.9	4804.3	4602.0	4348.7	4047.9	3734.5





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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°	45.6	43.7	43.7	41.9	40.1	38.3	34.6	32.8	29.2	23.7	18.2
85°	98.4	93.0	87.5	83.8	80.2	76.5	71.1	65.6	58.3	47.4	36.5
82.5°	173.1	162.2	151.3	138.5	127.6	116.6	107.5	98.4	87.5	71.1	54.7
80°	247.9	231.5	215.1	196.8	180.4	162.2	145.8	131.2	116.6	94.8	72.9
77.5°	322.6	300.7	277.0	255.2	231.5	207.8	184.1	164.0	142.2	116.6	91.1
75°	391.9	366.3	344.5	313.5	284.3	253.3	222.4	195.0	167.7	136.7	109.4
72.5°	461.1	428.3	397.3	368.2	335.4	297.1	262.5	227.8	193.2	156.7	123.9
70°	530.4	490.3	452.0	417.4	380.9	342.6	300.7	260.6	218.7	175.0	136.7
67.5°	601.4	555.9	512.1	468.4	426.5	382.7	339.0	293.4	244.2	193.2	151.3
65°	679.8	623.3	570.5	521.3	472.0	424.7	375.5	326.2	271.6	213.2	164.0
62.5°	758.2	696.2	634.3	572.3	517.6	464.8	411.9	357.2	297.1	235.1	176.8
60°	842.0	770.9	699.9	630.6	563.2	504.9	446.5	388.2	324.4	255.2	189.5
57.5°	935.0	849.3	769.1	690.8	614.2	544.9	481.2	419.2	348.1	275.2	204.1
55°	1040.7	935.0	840.2	752.7	668.9	585.0	515.8	452.0	375.5	295.3	220.5
52.5°	1151.9	1029.8	914.9	816.5	727.2	632.4	548.6	477.5	402.8	315.3	235.1
50°	1281.3	1126.4	998.8	878.5	778.2	679.8	583.2	506.7	430.1	339.0	249.7
47.5°	1414.3	1243.0	1082.6	951.4	832.9	725.4	623.3	532.2	455.6	360.9	264.3
45°	1569.2	1354.2	1177.4	1022.5	885.8	772.8	663.4	559.5	477.5	382.7	278.9
42.5°	1718.7	1485.4	1275.8	1100.8	945.9	818.3	699.9	588.7	499.4	404.6	291.6
40°	1895.5	1616.6	1370.6	1175.6	1006.1	862.1	736.3	619.7	519.4	424.7	304.4
37.5°	2065.0	1749.7	1485.4	1257.6	1064.4	905.8	772.8	648.8	537.7	444.7	320.8
35°	2232.7	1897.3	1594.8	1334.1	1124.5	955.0	809.2	676.2	555.9	461.1	335.4
32.5°	2393.0	2035.8	1705.9	1419.8	1190.1	1000.6	842.0	701.7	574.1	475.7	349.9
30°	2542.5	2167.0	1815.3	1507.3	1250.3	1042.5	873.0	727.2	596.0	488.4	364.5
27.5°	2679.2	2294.6	1924.6	1589.3	1306.8	1080.8	905.8	750.9	614.2	501.2	377.3
25°	2803.1	2409.4	2024.9	1664.0	1357.8	1122.7	936.8	774.6	630.6	512.1	388.2
22.5°	2919.8	2515.2	2116.0	1738.7	1419.8	1164.6	966.0	796.5	647.0	523.1	399.1
20°	3021.8	2611.7	2203.5	1813.5	1474.5	1202.9	991.5	816.5	661.6	530.4	410.1
17.5°	3103.8	2697.4	2281.9	1879.1	1521.8	1235.7	1013.4	834.7	674.4	539.5	417.4
15°	3176.7	2770.3	2347.5	1935.6	1563.8	1263.0	1033.4	849.3	685.3	544.9	426.5
12.5°	3238.7	2832.3	2404.0	1984.8	1600.2	1286.7	1049.8	860.3	694.4	550.4	432.0
10°	3289.7	2881.5	2451.4	2023.1	1629.4	1305.0	1062.6	871.2	701.7	555.9	437.4
7.5°	3328.0	2917.9	2486.0	2055.9	1653.1	1317.7	1073.5	878.5	709.0	559.5	446.5
5°	3357.2	2948.9	2513.3	2077.7	1671.3	1335.9	1086.3	887.6	716.3	563.2	446.5
2.5°	3379.1	2974.4	2535.2	2096.0	1685.9	1332.3	1086.3	885.8	716.3	563.2	444.7
0°	3375.4	2976.3	2533.4	2096.0	1685.9	1328.7	1086.3	883.9	716.3	563.2	444.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.8	9.1	3.6	0.0
85°	27.3	18.2	9.1	0.0
82.5°	40.1	25.5	12.8	0.0
80°	52.9	34.6	16.4	0.0
77.5°	67.4	43.7	21.9	0.0
75°	80.2	51.0	25.5	0.0
72.5°	93.0	60.1	29.2	0.0
70°	103.9	67.4	32.8	0.0
67.5°	114.8	76.5	38.3	0.0
65°	123.9	83.8	41.9	0.0
62.5°	131.2	93.0	45.6	0.0
60°	140.3	100.2	49.2	0.0
57.5°	147.6	105.7	52.9	0.0
55°	154.9	109.4	56.5	0.0
52.5°	162.2	114.8	60.1	0.0
50°	169.5	120.3	63.8	0.0
47.5°	176.8	123.9	65.6	0.0
45°	187.7	129.4	69.3	0.0
42.5°	196.8	133.0	72.9	0.0
40°	206.0	136.7	74.7	0.0
37.5°	215.1	140.3	78.4	0.0
35°	224.2	144.0	80.2	0.0
32.5°	231.5	147.6	82.0	0.0
30°	238.8	151.3	83.8	0.0
27.5°	246.0	153.1	85.7	0.0
25°	251.5	156.7	87.5	0.0
22.5°	257.0	158.6	89.3	0.0
20°	260.6	160.4	91.1	0.0
17.5°	266.1	162.2	93.0	0.0
15°	267.9	164.0	96.6	0.0
12.5°	271.6	165.9	96.6	0.0
10°	273.4	167.7	96.6	0.0
7.5°	277.0	167.7	96.6	0.0
5°	275.2	167.7	96.6	0.0
2.5°	275.2	167.7	96.6	0.0
0°	273.4	167.7	96.6	0.0

(END OF REPORT)