

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: P628448

Luminaire Tested: **IFLD-S-SA3D-930-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628448  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-930-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

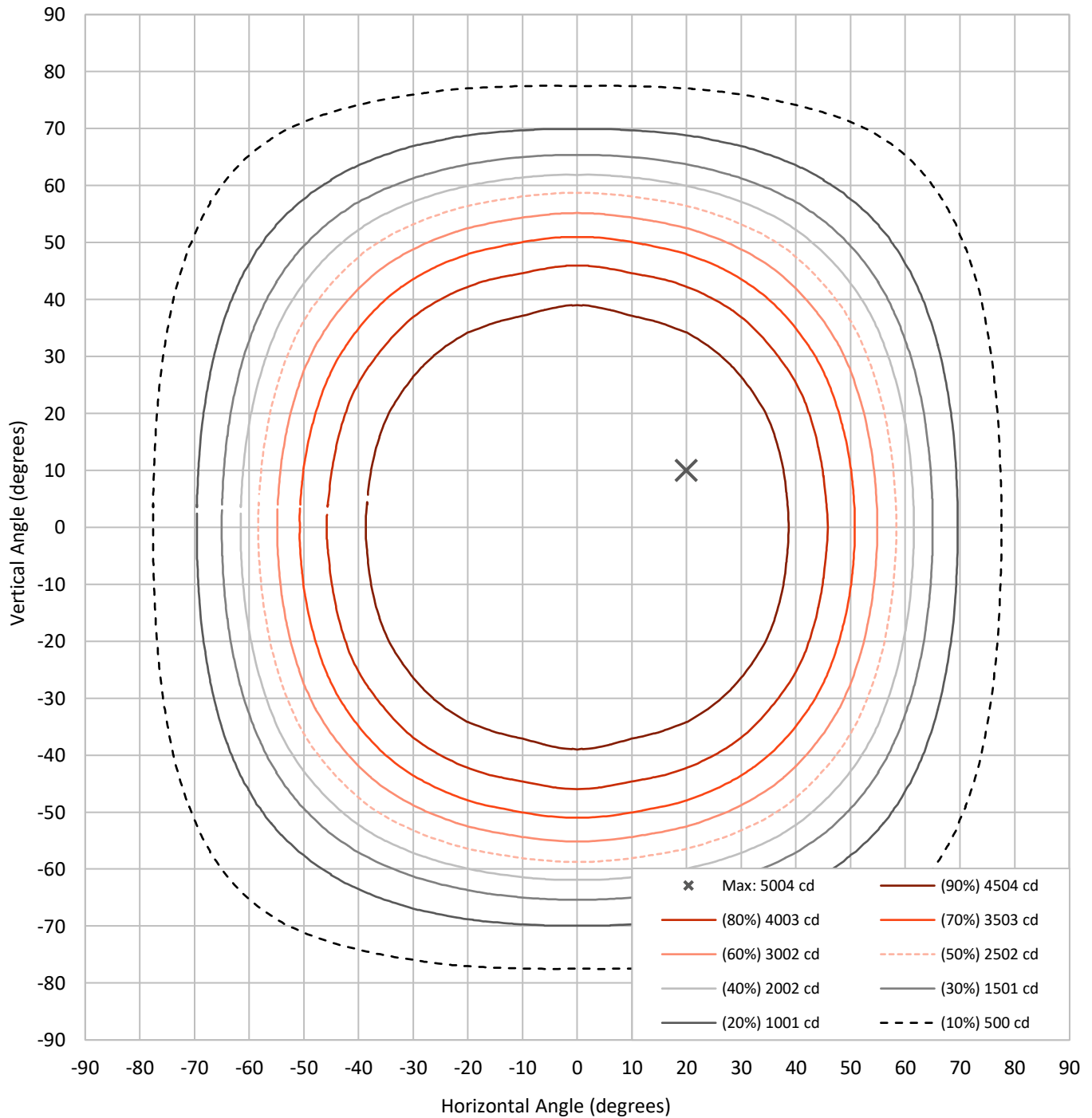
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15351.6 lumens	Max Intensity:	5004 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	83.4 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:	9420.1 lumens	Field Lumens:	11293.1 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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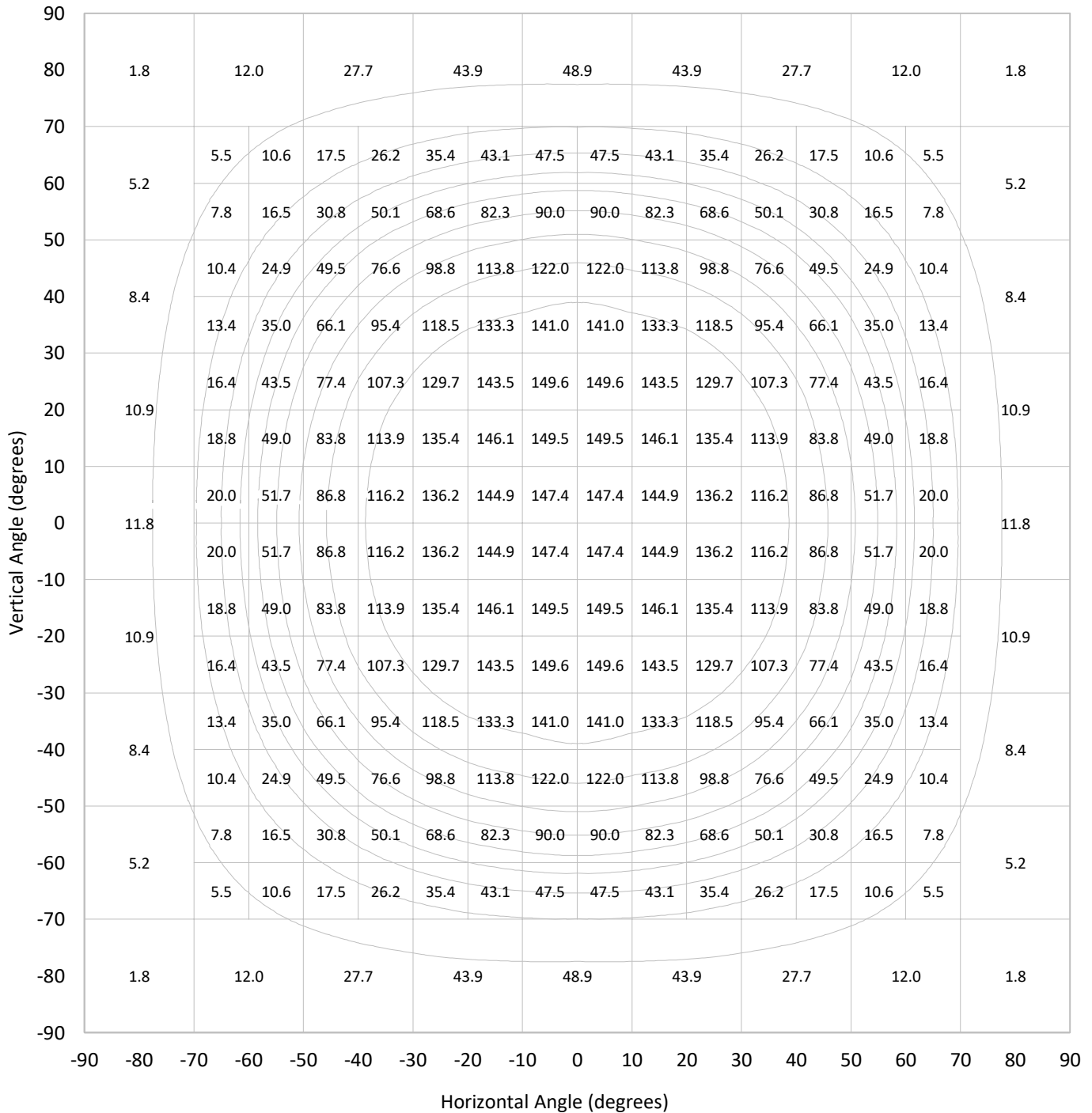
### Iso-Candela Plot





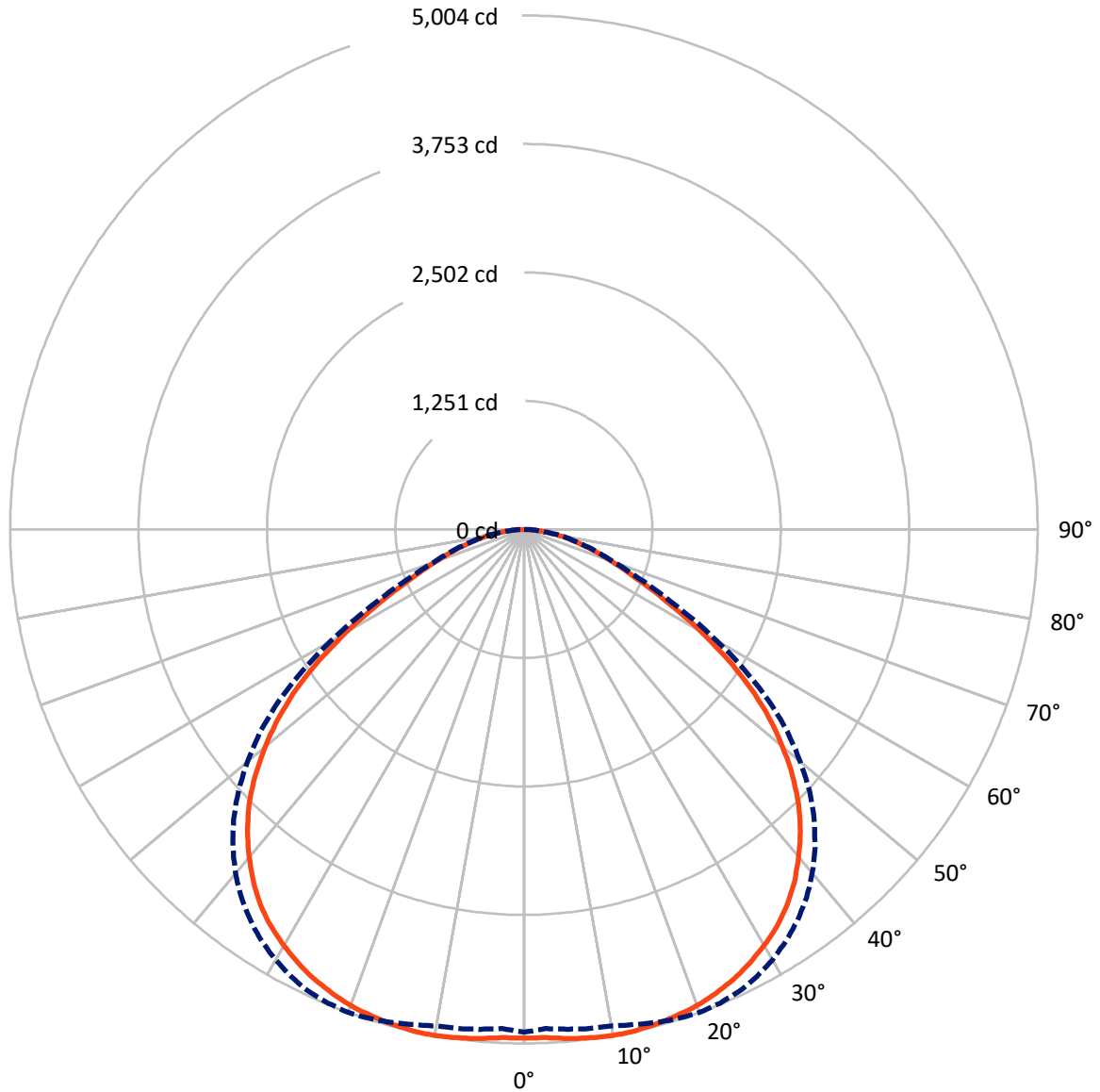
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### Lumen Table



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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: 9420.1  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 11293.1  
Efficiency: 73.6%

**Spill:**  
Lumens: 4058.6  
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°	40.4	43.6	45.2	46.8	48.5	50.1	51.7	50.1	48.5	48.5	46.8
85°	108.2	111.5	113.1	124.4	135.7	142.1	150.2	148.6	148.6	147.0	145.4
82.5°	216.4	226.1	234.2	245.5	252.0	261.7	268.1	263.3	260.1	253.6	248.7
80°	384.4	387.7	389.3	390.9	382.8	381.2	378.0	373.1	366.7	358.6	350.5
77.5°	489.4	492.6	495.9	492.6	491.0	489.4	484.6	479.7	473.3	466.8	457.1
75°	647.7	647.7	647.7	642.9	639.6	634.8	626.7	618.6	607.3	594.4	579.9
72.5°	815.7	814.1	812.5	802.8	794.7	785.0	773.7	764.0	751.1	736.5	717.2
70°	991.8	995.0	996.6	983.7	974.0	961.1	946.5	928.8	909.4	888.4	860.9
67.5°	1234.0	1230.8	1227.6	1209.8	1196.9	1179.1	1158.1	1132.3	1103.2	1070.9	1032.1
65°	1534.5	1539.3	1529.6	1511.9	1487.6	1458.6	1426.3	1389.1	1345.5	1297.0	1242.1
62.5°	1897.9	1906.0	1894.7	1872.1	1841.4	1802.6	1757.4	1704.1	1644.3	1576.5	1508.6
60°	2311.4	2309.8	2288.8	2258.1	2217.7	2169.3	2119.2	2061.0	1993.2	1914.1	1831.7
57.5°	2691.0	2687.8	2661.9	2631.2	2590.8	2539.2	2485.9	2424.5	2353.4	2269.4	2174.1
55°	3031.8	3028.6	3002.7	2970.4	2928.4	2876.7	2828.3	2770.1	2700.7	2611.8	2510.1
52.5°	3333.9	3335.5	3312.9	3277.3	3232.1	3182.0	3135.2	3077.0	3010.8	2922.0	2823.4
50°	3611.7	3610.1	3585.8	3553.5	3511.5	3463.1	3416.2	3358.1	3288.6	3203.0	3107.7
47.5°	3870.1	3866.9	3839.4	3803.9	3760.3	3718.3	3674.7	3623.0	3550.3	3464.7	3369.4
45°	4086.6	4080.1	4052.6	4018.7	3976.7	3939.6	3900.8	3862.0	3784.5	3705.4	3614.9
42.5°	4272.3	4270.7	4243.2	4209.3	4167.3	4135.0	4099.5	4051.0	3986.4	3913.7	3824.9
40°	4450.0	4437.1	4409.6	4377.3	4338.5	4311.1	4275.5	4227.1	4164.1	4093.0	4007.4
37.5°	4582.4	4584.0	4555.0	4519.4	4485.5	4459.7	4427.4	4382.1	4327.2	4257.8	4172.2
35°	4708.4	4700.3	4676.1	4645.4	4614.7	4585.7	4551.7	4513.0	4467.7	4403.1	4322.4
32.5°	4790.8	4802.1	4773.0	4740.7	4723.0	4700.3	4664.8	4624.4	4584.0	4519.4	4446.8
30°	4881.3	4871.6	4848.9	4821.5	4808.6	4794.0	4763.3	4724.6	4677.7	4619.6	4551.7
27.5°	4944.2	4939.4	4911.9	4886.1	4879.6	4866.7	4842.5	4808.6	4761.7	4705.2	4642.2
25°	4971.7	4974.9	4949.1	4934.6	4934.6	4926.5	4907.1	4878.0	4831.2	4779.5	4718.1
22.5°	4984.6	4981.4	4963.6	4960.4	4968.5	4962.0	4953.9	4928.1	4886.1	4844.1	4792.4
20°	4992.7	4970.1	4953.9	4966.9	4976.5	4974.9	4968.5	4952.3	4932.9	4897.4	4852.2
17.5°	4974.9	4960.4	4941.0	4960.4	4981.4	4983.0	4976.5	4966.9	4962.0	4939.4	4899.0
15°	4931.3	4920.0	4923.2	4942.6	4966.9	4974.9	4979.8	4991.1	4984.6	4966.9	4931.3
12.5°	4902.2	4887.7	4902.2	4921.6	4934.6	4939.4	4978.2	4999.2	4999.2	4983.0	4960.4
10°	4894.2	4865.1	4884.5	4902.2	4908.7	4937.8	4970.1	4992.7	5004.0	4991.1	4962.0
7.5°	4878.0	4858.6	4866.7	4874.8	4911.9	4932.9	4950.7	4974.9	4991.1	4989.5	4963.6
5°	4869.9	4845.7	4848.9	4882.9	4908.7	4923.2	4929.7	4950.7	4974.9	4979.8	4960.4
2.5°	4848.9	4837.6	4861.9	4865.1	4884.5	4895.8	4902.2	4921.6	4952.3	4963.6	4955.6
0°	4837.6	4821.5	4805.3	4818.3	4850.6	4874.8	4884.5	4913.6	4949.1	4960.4	4942.6



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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°	45.2	43.6	42.0	40.4	42.0	42.0	42.0	40.4	42.0	40.4	40.4
85°	140.5	134.1	129.2	122.8	116.3	111.5	105.0	98.5	96.9	95.3	92.1
82.5°	242.3	234.2	226.1	216.4	206.8	195.4	184.1	171.2	168.0	164.8	159.9
80°	340.8	329.5	318.2	306.9	297.2	285.9	273.0	258.4	248.7	240.7	231.0
77.5°	444.2	428.0	411.9	392.5	381.2	369.9	357.0	342.4	327.9	315.0	300.4
75°	562.1	544.3	528.2	508.8	487.8	466.8	445.8	426.4	405.4	386.0	366.7
72.5°	692.9	667.1	641.2	617.0	591.2	565.3	537.9	512.0	486.2	460.3	432.9
70°	830.2	797.9	765.6	733.3	699.4	665.5	633.2	600.9	568.6	534.6	504.0
67.5°	991.8	954.6	912.6	867.4	817.3	773.7	731.7	692.9	654.2	615.4	576.6
65°	1193.7	1142.0	1085.4	1024.1	965.9	907.8	846.4	788.2	743.0	697.8	654.2
62.5°	1442.4	1369.7	1290.6	1211.4	1140.4	1064.4	993.4	917.5	846.4	781.8	728.5
60°	1739.6	1641.1	1544.2	1442.4	1343.9	1240.5	1150.0	1056.4	967.5	888.4	810.8
57.5°	2067.5	1952.8	1836.5	1712.2	1578.1	1456.9	1334.2	1211.4	1106.4	1001.4	914.2
55°	2400.2	2279.1	2148.3	2007.7	1860.8	1705.7	1539.3	1402.0	1258.3	1135.5	1022.4
52.5°	2716.8	2590.8	2455.2	2325.9	2149.9	1972.2	1789.7	1608.8	1440.8	1284.1	1146.8
50°	2999.5	2876.7	2745.9	2595.7	2432.5	2243.6	2040.0	1836.5	1637.9	1453.7	1282.5
47.5°	3257.9	3138.4	3007.6	2857.4	2708.8	2498.8	2293.6	2069.1	1847.8	1636.2	1435.9
45°	3500.2	3379.1	3243.4	3099.6	2928.4	2741.1	2529.5	2303.3	2065.9	1828.4	1597.5
42.5°	3719.9	3598.8	3461.5	3312.9	3143.3	2957.5	2752.4	2524.6	2285.6	2027.1	1773.5
40°	3912.1	3794.2	3661.7	3506.7	3348.4	3152.9	2951.0	2734.6	2487.5	2227.4	1948.0
37.5°	4080.1	3970.3	3839.4	3686.0	3518.0	3343.5	3135.2	2918.7	2695.8	2413.2	2127.3
35°	4228.7	4126.9	3992.9	3847.5	3682.7	3498.6	3303.2	3091.6	2850.9	2586.0	2308.2
32.5°	4357.9	4254.5	4131.8	3986.4	3826.5	3653.7	3453.4	3240.2	3012.4	2742.7	2440.6
30°	4467.7	4367.6	4251.3	4114.0	3960.6	3789.3	3593.9	3379.1	3146.5	2878.4	2579.5
27.5°	4563.0	4467.7	4354.7	4227.1	4080.1	3915.3	3718.3	3501.8	3264.4	3006.0	2707.1
25°	4645.4	4553.4	4448.4	4327.2	4181.9	4020.3	3834.6	3608.4	3371.0	3110.9	2815.4
22.5°	4719.7	4630.9	4525.9	4408.0	4275.5	4114.0	3926.6	3702.1	3461.5	3204.6	2913.9
20°	4786.0	4703.6	4600.2	4479.1	4346.6	4183.5	3997.7	3784.5	3542.2	3290.2	3002.7
17.5°	4839.3	4766.6	4663.2	4535.6	4403.1	4244.8	4063.9	3868.5	3611.7	3362.9	3077.0
15°	4876.4	4805.3	4711.7	4582.4	4453.2	4296.5	4115.6	3913.7	3674.7	3421.1	3138.4
12.5°	4902.2	4826.3	4739.1	4619.6	4490.4	4335.3	4159.2	3960.6	3728.0	3472.8	3191.7
10°	4908.7	4839.3	4752.0	4645.4	4519.4	4369.2	4196.4	3999.3	3771.6	3513.1	3235.3
7.5°	4911.9	4845.7	4766.6	4664.8	4540.4	4395.1	4223.8	4030.0	3803.9	3547.1	3267.6
5°	4910.3	4847.3	4776.3	4677.7	4553.4	4409.6	4241.6	4051.0	3826.5	3569.7	3291.9
2.5°	4905.5	4848.9	4782.7	4687.4	4567.9	4425.8	4259.4	4075.2	3850.7	3589.1	3311.2
0°	4918.4	4869.9	4786.0	4684.2	4571.1	4425.8	4257.8	4078.5	3854.0	3587.4	3309.6





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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°	40.4	38.8	38.8	37.2	35.5	33.9	30.7	29.1	25.8	21.0	16.2
85°	87.2	82.4	77.5	74.3	71.1	67.8	63.0	58.1	51.7	42.0	32.3
82.5°	153.4	143.8	134.1	122.8	113.1	103.4	95.3	87.2	77.5	63.0	48.5
80°	219.7	205.1	190.6	174.4	159.9	143.8	129.2	116.3	103.4	84.0	64.6
77.5°	285.9	266.5	245.5	226.1	205.1	184.1	163.1	145.4	126.0	103.4	80.8
75°	347.3	324.7	305.3	277.8	252.0	224.5	197.1	172.8	148.6	121.1	96.9
72.5°	408.7	379.6	352.1	326.3	297.2	263.3	232.6	201.9	171.2	138.9	109.8
70°	470.0	434.5	400.6	369.9	337.6	303.7	266.5	231.0	193.8	155.1	121.1
67.5°	533.0	492.6	453.9	415.1	378.0	339.2	300.4	260.1	216.4	171.2	134.1
65°	602.5	552.4	505.6	462.0	418.3	376.4	332.7	289.1	240.7	189.0	145.4
62.5°	671.9	617.0	562.1	507.2	458.7	411.9	365.0	316.6	263.3	208.4	156.7
60°	746.2	683.2	620.3	558.9	499.1	447.4	395.7	344.0	287.5	226.1	168.0
57.5°	828.6	752.7	681.6	612.2	544.3	483.0	426.4	371.5	308.5	243.9	180.9
55°	922.3	828.6	744.6	667.1	592.8	518.5	457.1	400.6	332.7	261.7	195.4
52.5°	1020.8	912.6	810.8	723.6	644.5	560.5	486.2	423.2	357.0	279.4	208.4
50°	1135.5	998.2	885.2	778.5	689.7	602.5	516.9	449.0	381.2	300.4	221.3
47.5°	1253.4	1101.6	959.5	843.2	738.2	642.9	552.4	471.6	403.8	319.8	234.2
45°	1390.7	1200.1	1043.4	906.1	785.0	684.9	587.9	495.9	423.2	339.2	247.1
42.5°	1523.2	1316.4	1130.7	975.6	838.3	725.2	620.3	521.7	442.6	358.6	258.4
40°	1679.8	1432.7	1214.7	1041.8	891.6	764.0	652.6	549.2	460.3	376.4	269.7
37.5°	1830.1	1550.6	1316.4	1114.5	943.3	802.8	684.9	575.0	476.5	394.1	284.3
35°	1978.7	1681.5	1413.3	1182.4	996.6	846.4	717.2	599.3	492.6	408.7	297.2
32.5°	2120.8	1804.2	1511.9	1258.3	1054.8	886.8	746.2	621.9	508.8	421.6	310.1
30°	2253.3	1920.5	1608.8	1335.8	1108.1	923.9	773.7	644.5	528.2	432.9	323.0
27.5°	2374.4	2033.6	1705.7	1408.5	1158.1	957.8	802.8	665.5	544.3	444.2	334.4
25°	2484.2	2135.3	1794.5	1474.7	1203.4	995.0	830.2	686.5	558.9	453.9	344.0
22.5°	2587.6	2229.0	1875.3	1540.9	1258.3	1032.1	856.1	705.9	573.4	463.6	353.7
20°	2678.1	2314.6	1952.8	1607.2	1306.7	1066.1	878.7	723.6	586.3	470.0	363.4
17.5°	2750.8	2390.6	2022.3	1665.3	1348.7	1095.1	898.1	739.8	597.6	478.1	369.9
15°	2815.4	2455.2	2080.4	1715.4	1385.9	1119.4	915.8	752.7	607.3	483.0	378.0
12.5°	2870.3	2510.1	2130.5	1759.0	1418.2	1140.4	930.4	762.4	615.4	487.8	382.8
10°	2915.5	2553.7	2172.5	1792.9	1444.0	1156.5	941.7	772.1	621.9	492.6	387.7
7.5°	2949.4	2586.0	2203.2	1822.0	1465.0	1167.8	951.4	778.5	628.3	495.9	395.7
5°	2975.3	2613.5	2227.4	1841.4	1481.2	1184.0	962.7	786.6	634.8	499.1	395.7
2.5°	2994.7	2636.1	2246.8	1857.5	1494.1	1180.7	962.7	785.0	634.8	499.1	394.1
0°	2991.4	2637.7	2245.2	1857.5	1494.1	1177.5	962.7	783.4	634.8	499.1	394.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.3	8.1	3.2	0.0
85°	24.2	16.2	8.1	0.0
82.5°	35.5	22.6	11.3	0.0
80°	46.8	30.7	14.5	0.0
77.5°	59.8	38.8	19.4	0.0
75°	71.1	45.2	22.6	0.0
72.5°	82.4	53.3	25.8	0.0
70°	92.1	59.8	29.1	0.0
67.5°	101.8	67.8	33.9	0.0
65°	109.8	74.3	37.2	0.0
62.5°	116.3	82.4	40.4	0.0
60°	124.4	88.8	43.6	0.0
57.5°	130.8	93.7	46.8	0.0
55°	137.3	96.9	50.1	0.0
52.5°	143.8	101.8	53.3	0.0
50°	150.2	106.6	56.5	0.0
47.5°	156.7	109.8	58.1	0.0
45°	166.4	114.7	61.4	0.0
42.5°	174.4	117.9	64.6	0.0
40°	182.5	121.1	66.2	0.0
37.5°	190.6	124.4	69.5	0.0
35°	198.7	127.6	71.1	0.0
32.5°	205.1	130.8	72.7	0.0
30°	211.6	134.1	74.3	0.0
27.5°	218.1	135.7	75.9	0.0
25°	222.9	138.9	77.5	0.0
22.5°	227.7	140.5	79.1	0.0
20°	231.0	142.1	80.8	0.0
17.5°	235.8	143.8	82.4	0.0
15°	237.4	145.4	85.6	0.0
12.5°	240.7	147.0	85.6	0.0
10°	242.3	148.6	85.6	0.0
7.5°	245.5	148.6	85.6	0.0
5°	243.9	148.6	85.6	0.0
2.5°	243.9	148.6	85.6	0.0
0°	242.3	148.6	85.6	0.0

(END OF REPORT)