

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: P628193

Luminaire Tested: **IFLD-S-SA6E-727-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628193  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-727-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	45542 lumens	Max Intensity:	14844.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

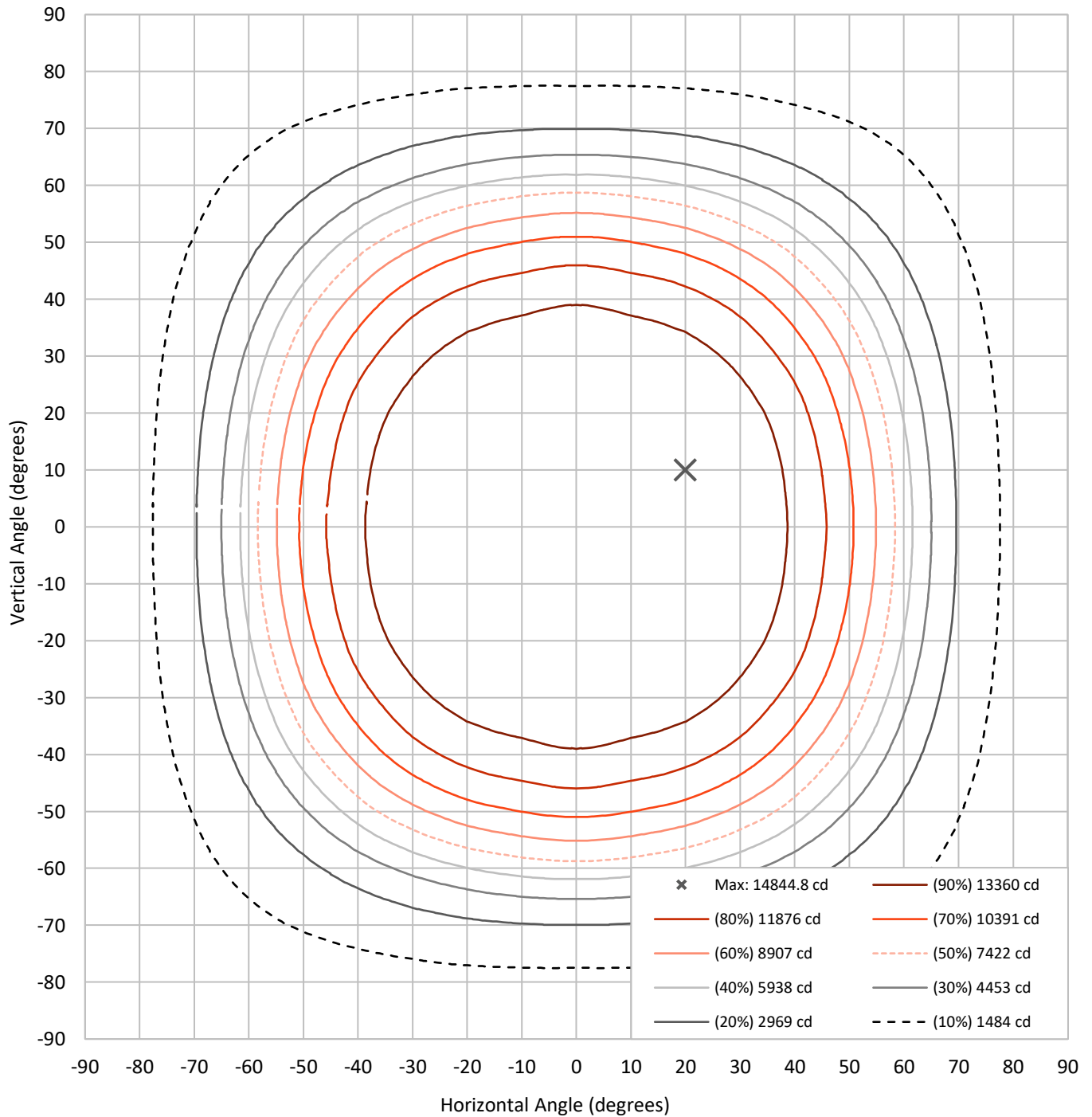
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	27945.5 lumens	Field Lumens:	33501.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2  
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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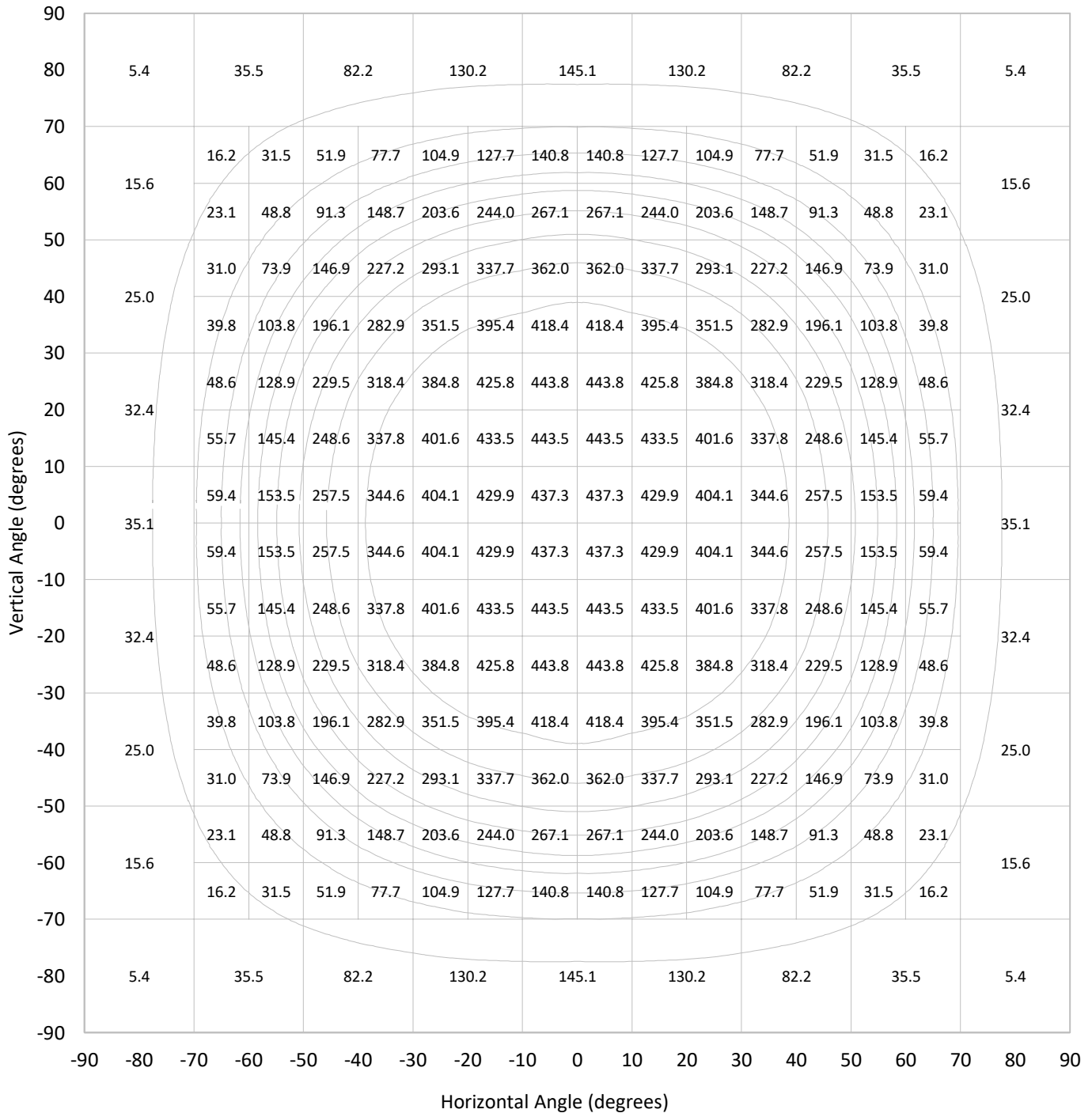
### Iso-Candela Plot





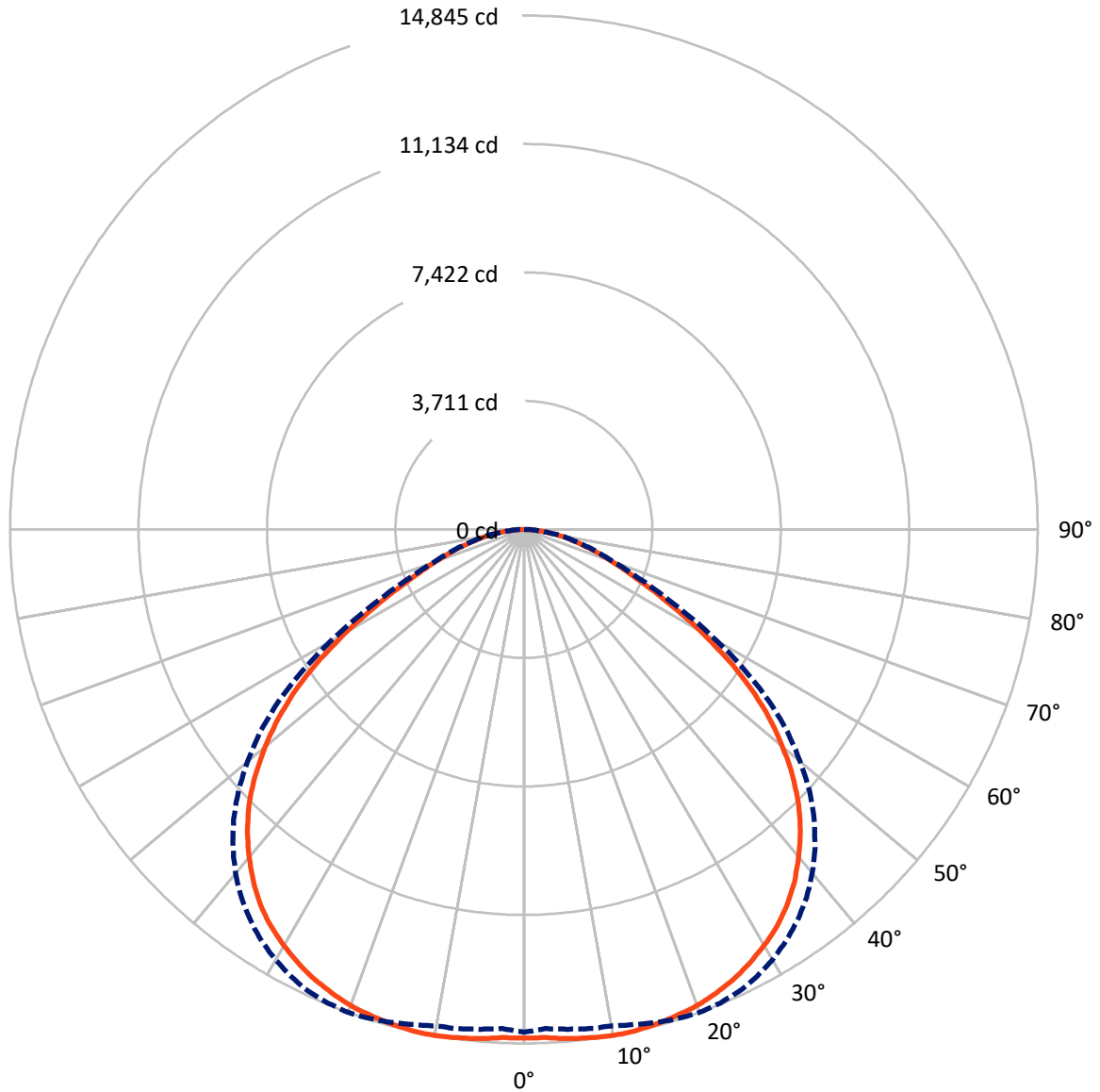
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### Lumen Table



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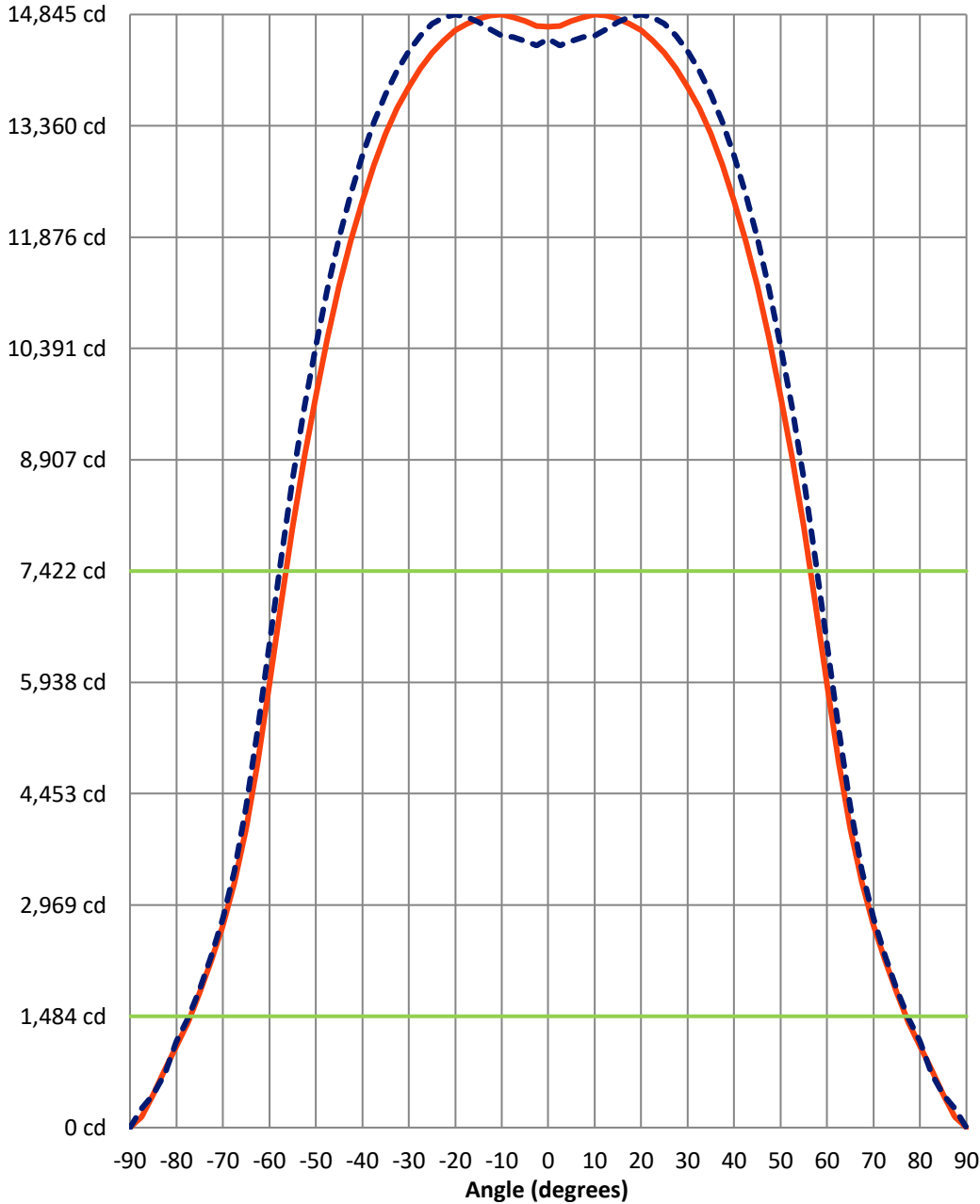
### Luminous Intensity Polar Plot



— 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: 27945.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 33501.9  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 12040.1  
 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°	119.8	129.4	134.2	139.0	143.8	148.5	153.3	148.5	143.8	143.8	139.0
85°	321.0	330.6	335.4	369.0	402.5	421.7	445.6	440.8	440.8	436.0	431.3
82.5°	642.1	670.8	694.8	728.3	747.5	776.3	795.4	781.1	771.5	752.3	737.9
80°	1140.4	1150.0	1154.8	1159.6	1135.6	1130.9	1121.3	1106.9	1087.7	1063.8	1039.8
77.5°	1451.9	1461.5	1471.1	1461.5	1456.7	1451.9	1437.5	1423.2	1404.0	1384.8	1356.1
75°	1921.5	1921.5	1921.5	1907.1	1897.5	1883.2	1859.2	1835.2	1801.7	1763.4	1720.2
72.5°	2419.8	2415.0	2410.3	2381.5	2357.5	2328.8	2295.2	2266.5	2228.2	2185.0	2127.5
70°	2942.1	2951.7	2956.5	2918.2	2889.4	2851.1	2808.0	2755.3	2697.8	2635.5	2554.0
67.5°	3660.9	3651.3	3641.7	3589.0	3550.7	3498.0	3435.7	3359.0	3272.8	3176.9	3061.9
65°	4552.2	4566.5	4537.8	4485.1	4413.2	4327.0	4231.1	4120.9	3991.5	3847.8	3684.9
62.5°	5630.3	5654.3	5620.7	5553.6	5462.6	5347.6	5213.4	5055.3	4878.0	4676.8	4475.5
60°	6857.0	6852.2	6789.9	6698.9	6579.1	6435.3	6286.8	6114.3	5913.0	5678.2	5433.8
57.5°	7983.1	7973.5	7896.8	7805.8	7686.0	7532.6	7374.5	7192.4	6981.6	6732.4	6449.7
55°	8994.1	8984.5	8907.9	8812.0	8687.4	8534.1	8390.4	8217.9	8011.8	7748.3	7446.4
52.5°	9890.2	9895.0	9827.9	9722.5	9588.3	9439.8	9300.8	9128.3	8931.8	8668.3	8376.0
50°	10714.4	10709.6	10637.7	10541.9	10417.3	10273.5	10134.6	9962.1	9756.0	9502.0	9219.3
47.5°	11481.0	11471.5	11390.0	11284.6	11155.2	11030.6	10901.2	10747.9	10532.3	10278.3	9995.6
45°	12123.1	12104.0	12022.5	11921.9	11797.3	11687.1	11572.1	11457.1	11227.1	10992.3	10723.9
42.5°	12674.2	12669.4	12587.9	12487.3	12362.7	12266.9	12161.5	12017.7	11826.0	11610.4	11346.9
40°	13201.3	13162.9	13081.5	12985.6	12870.6	12789.2	12683.8	12540.0	12353.1	12142.3	11888.3
37.5°	13594.2	13599.0	13512.7	13407.3	13306.7	13230.0	13134.2	13000.0	12837.1	12631.1	12377.1
35°	13968.0	13944.0	13872.1	13781.1	13690.0	13603.8	13503.2	13388.2	13254.0	13062.3	12822.7
32.5°	14212.3	14245.9	14159.6	14063.8	14011.1	13944.0	13838.6	13718.8	13599.0	13407.3	13191.7
30°	14480.7	14451.9	14384.8	14303.4	14265.0	14221.9	14130.9	14015.9	13876.9	13704.4	13503.2
27.5°	14667.6	14653.2	14571.7	14495.1	14475.9	14437.5	14365.7	14265.0	14126.1	13958.4	13771.5
25°	14749.0	14758.6	14681.9	14638.8	14638.8	14614.8	14557.3	14471.1	14332.1	14178.8	13996.7
22.5°	14787.3	14777.8	14725.1	14715.5	14739.4	14720.3	14696.3	14619.6	14495.1	14370.5	14217.1
20°	14811.3	14744.2	14696.3	14734.6	14763.4	14758.6	14739.4	14691.5	14634.0	14528.6	14394.4
17.5°	14758.6	14715.5	14658.0	14715.5	14777.8	14782.6	14763.4	14734.6	14720.3	14653.2	14533.4
15°	14629.2	14595.7	14605.3	14662.8	14734.6	14758.6	14773.0	14806.5	14787.3	14734.6	14629.2
12.5°	14543.0	14499.8	14543.0	14600.5	14638.8	14653.2	14768.2	14830.5	14830.5	14782.6	14715.5
10°	14519.0	14432.8	14490.3	14543.0	14562.1	14648.4	14744.2	14811.3	14844.8	14806.5	14720.3
7.5°	14471.1	14413.6	14437.5	14461.5	14571.7	14634.0	14686.7	14758.6	14806.5	14801.7	14725.1
5°	14447.1	14375.3	14384.8	14485.5	14562.1	14605.3	14624.4	14686.7	14758.6	14773.0	14715.5
2.5°	14384.8	14351.3	14423.2	14432.8	14490.3	14523.8	14543.0	14600.5	14691.5	14725.1	14701.1
0°	14351.3	14303.4	14255.5	14293.8	14389.6	14461.5	14490.3	14576.5	14681.9	14715.5	14662.8



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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°	134.2	129.4	124.6	119.8	124.6	124.6	124.6	119.8	124.6	119.8	119.8
85°	416.9	397.7	383.3	364.2	345.0	330.6	311.5	292.3	287.5	282.7	273.1
82.5°	718.8	694.8	670.8	642.1	613.3	579.8	546.3	507.9	498.3	488.8	474.4
80°	1011.1	977.5	944.0	910.4	881.7	848.1	809.8	766.7	737.9	714.0	685.2
77.5°	1317.7	1269.8	1221.9	1164.4	1130.9	1097.3	1059.0	1015.9	972.7	934.4	891.3
75°	1667.5	1614.8	1566.9	1509.4	1447.1	1384.8	1322.5	1265.0	1202.7	1145.2	1087.7
72.5°	2055.7	1979.0	1902.3	1830.4	1753.8	1677.1	1595.7	1519.0	1442.3	1365.6	1284.2
70°	2463.0	2367.1	2271.3	2175.5	2074.8	1974.2	1878.4	1782.5	1686.7	1586.1	1495.0
67.5°	2942.1	2831.9	2707.3	2573.2	2424.6	2295.2	2170.7	2055.7	1940.7	1825.7	1710.7
65°	3541.1	3387.8	3220.1	3038.0	2865.5	2693.0	2510.9	2338.4	2204.2	2070.0	1940.7
62.5°	4279.0	4063.4	3828.6	3593.8	3383.0	3157.8	2946.9	2721.7	2510.9	2319.2	2161.1
60°	5160.7	4868.4	4580.9	4279.0	3986.7	3680.1	3411.7	3133.8	2870.3	2635.5	2405.5
57.5°	6133.4	5793.2	5448.2	5079.3	4681.5	4322.2	3958.0	3593.8	3282.4	2970.9	2712.1
55°	7120.5	6761.2	6373.0	5956.1	5520.1	5060.1	4566.5	4159.2	3732.8	3368.6	3033.2
52.5°	8059.7	7686.0	7283.5	6900.1	6377.8	5850.7	5309.3	4772.6	4274.2	3809.4	3402.1
50°	8898.3	8534.1	8146.0	7700.3	7216.4	6655.7	6052.0	5448.2	4858.8	4312.6	3804.7
47.5°	9665.0	9310.4	8922.2	8476.6	8035.8	7412.8	6804.3	6138.2	5481.8	4854.0	4259.9
45°	10383.7	10024.3	9621.8	9195.4	8687.4	8131.6	7503.9	6833.0	6128.7	5424.3	4739.0
42.5°	11035.4	10676.0	10268.7	9827.9	9324.7	8773.7	8165.1	7489.5	6780.3	6013.6	5261.3
40°	11605.6	11255.8	10862.9	10402.9	9933.3	9353.5	8754.5	8112.4	7379.3	6607.8	5778.9
37.5°	12104.0	11778.1	11390.0	10934.8	10436.4	9918.9	9300.8	8658.7	7997.4	7158.9	6310.7
35°	12544.8	12242.9	11845.2	11414.0	10925.2	10378.9	9799.1	9171.4	8457.4	7671.6	6847.4
32.5°	12928.1	12621.5	12257.3	11826.0	11351.7	10838.9	10244.8	9612.3	8936.6	8136.4	7240.3
30°	13254.0	12956.9	12611.9	12204.6	11749.4	11241.5	10661.6	10024.3	9334.3	8538.9	7652.4
27.5°	13536.7	13254.0	12918.6	12540.0	12104.0	11615.2	11030.6	10388.5	9684.1	8917.5	8031.0
25°	13781.1	13507.9	13196.5	12837.1	12405.8	11926.7	11375.6	10704.8	10000.4	9228.9	8352.0
22.5°	14001.5	13738.0	13426.5	13076.7	12683.8	12204.6	11648.7	10982.7	10268.7	9506.8	8644.3
20°	14198.0	13953.6	13646.9	13287.5	12894.6	12410.6	11859.6	11227.1	10508.3	9760.8	8907.9
17.5°	14356.1	14140.5	13833.8	13455.2	13062.3	12592.7	12056.0	11476.2	10714.4	9976.4	9128.3
15°	14466.3	14255.5	13977.5	13594.2	13210.9	12746.1	12209.4	11610.4	10901.2	10148.9	9310.4
12.5°	14543.0	14317.8	14059.0	13704.4	13321.1	12861.1	12338.8	11749.4	11059.4	10302.3	9468.5
10°	14562.1	14356.1	14097.3	13781.1	13407.3	12961.7	12449.0	11864.4	11188.7	10422.1	9597.9
7.5°	14571.7	14375.3	14140.5	13838.6	13469.6	13038.4	12530.4	11955.4	11284.6	10522.7	9693.7
5°	14566.9	14380.0	14169.2	13876.9	13507.9	13081.5	12583.1	12017.7	11351.7	10589.8	9765.6
2.5°	14552.6	14384.8	14188.4	13905.7	13551.1	13129.4	12635.9	12089.6	11423.5	10647.3	9823.1
0°	14590.9	14447.1	14198.0	13896.1	13560.7	13129.4	12631.1	12099.2	11433.1	10642.5	9818.3





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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°	119.8	115.0	115.0	110.2	105.4	100.6	91.0	86.3	76.7	62.3	47.9
85°	258.8	244.4	230.0	220.4	210.8	201.3	186.9	172.5	153.3	124.6	95.8
82.5°	455.2	426.5	397.7	364.2	335.4	306.7	282.7	258.8	230.0	186.9	143.8
80°	651.7	608.6	565.4	517.5	474.4	426.5	383.3	345.0	306.7	249.2	191.7
77.5°	848.1	790.6	728.3	670.8	608.6	546.3	484.0	431.3	373.8	306.7	239.6
75°	1030.2	963.1	905.6	824.2	747.5	666.1	584.6	512.7	440.8	359.4	287.5
72.5°	1212.3	1126.1	1044.6	967.9	881.7	781.1	690.0	599.0	507.9	412.1	325.8
70°	1394.4	1289.0	1188.4	1097.3	1001.5	900.8	790.6	685.2	575.0	460.0	359.4
67.5°	1581.3	1461.5	1346.5	1231.5	1121.3	1006.3	891.3	771.5	642.1	507.9	397.7
65°	1787.3	1638.8	1499.8	1370.4	1241.1	1116.5	987.1	857.7	714.0	560.6	431.3
62.5°	1993.4	1830.4	1667.5	1504.6	1360.9	1221.9	1082.9	939.2	781.1	618.1	464.8
60°	2213.8	2026.9	1840.0	1657.9	1480.7	1327.3	1174.0	1020.6	852.9	670.8	498.3
57.5°	2458.2	2233.0	2022.1	1816.1	1614.8	1432.7	1265.0	1102.1	915.2	723.6	536.7
55°	2736.1	2458.2	2209.0	1979.0	1758.6	1538.2	1356.1	1188.4	987.1	776.3	579.8
52.5°	3028.4	2707.3	2405.5	2146.7	1911.9	1662.7	1442.3	1255.4	1059.0	829.0	618.1
50°	3368.6	2961.3	2625.9	2309.6	2046.1	1787.3	1533.4	1332.1	1130.9	891.3	656.5
47.5°	3718.4	3268.0	2846.3	2501.3	2189.8	1907.1	1638.8	1399.2	1197.9	948.8	694.8
45°	4125.7	3560.3	3095.5	2688.2	2328.8	2031.7	1744.2	1471.1	1255.4	1006.3	733.1
42.5°	4518.6	3905.3	3354.2	2894.2	2486.9	2151.5	1840.0	1547.7	1312.9	1063.8	766.7
40°	4983.4	4250.3	3603.4	3090.7	2645.0	2266.5	1935.9	1629.2	1365.6	1116.5	800.2
37.5°	5429.1	4600.1	3905.3	3306.3	2798.4	2381.5	2031.7	1705.9	1413.6	1169.2	843.3
35°	5869.9	4988.2	4192.8	3507.6	2956.5	2510.9	2127.5	1777.7	1461.5	1212.3	881.7
32.5°	6291.6	5352.4	4485.1	3732.8	3129.0	2630.7	2213.8	1844.8	1509.4	1250.6	920.0
30°	6684.5	5697.4	4772.6	3962.8	3287.1	2740.9	2295.2	1911.9	1566.9	1284.2	958.4
27.5°	7043.9	6032.8	5060.1	4178.4	3435.7	2841.5	2381.5	1974.2	1614.8	1317.7	991.9
25°	7369.7	6334.7	5323.6	4374.9	3569.9	2951.7	2463.0	2036.5	1657.9	1346.5	1020.6
22.5°	7676.4	6612.6	5563.2	4571.3	3732.8	3061.9	2539.6	2094.0	1701.1	1375.2	1049.4
20°	7944.7	6866.6	5793.2	4767.8	3876.5	3162.6	2606.7	2146.7	1739.4	1394.4	1078.1
17.5°	8160.4	7091.8	5999.3	4940.3	4001.1	3248.8	2664.2	2194.6	1772.9	1418.4	1097.3
15°	8352.0	7283.5	6171.8	5088.8	4111.3	3320.7	2716.9	2233.0	1801.7	1432.7	1121.3
12.5°	8514.9	7446.4	6320.3	5218.2	4207.2	3383.0	2760.0	2261.7	1825.7	1447.1	1135.6
10°	8649.1	7575.8	6444.9	5318.8	4283.8	3430.9	2793.6	2290.5	1844.8	1461.5	1150.0
7.5°	8749.7	7671.6	6536.0	5405.1	4346.1	3464.4	2822.3	2309.6	1864.0	1471.1	1174.0
5°	8826.4	7753.1	6607.8	5462.6	4394.0	3512.4	2855.9	2333.6	1883.2	1480.7	1174.0
2.5°	8883.9	7820.1	6665.3	5510.5	4432.4	3502.8	2855.9	2328.8	1883.2	1480.7	1169.2
0°	8874.3	7824.9	6660.5	5510.5	4432.4	3493.2	2855.9	2324.0	1883.2	1480.7	1169.2



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	33.5	24.0	9.6	0.0
85°	71.9	47.9	24.0	0.0
82.5°	105.4	67.1	33.5	0.0
80°	139.0	91.0	43.1	0.0
77.5°	177.3	115.0	57.5	0.0
75°	210.8	134.2	67.1	0.0
72.5°	244.4	158.1	76.7	0.0
70°	273.1	177.3	86.3	0.0
67.5°	301.9	201.3	100.6	0.0
65°	325.8	220.4	110.2	0.0
62.5°	345.0	244.4	119.8	0.0
60°	369.0	263.5	129.4	0.0
57.5°	388.1	277.9	139.0	0.0
55°	407.3	287.5	148.5	0.0
52.5°	426.5	301.9	158.1	0.0
50°	445.6	316.3	167.7	0.0
47.5°	464.8	325.8	172.5	0.0
45°	493.6	340.2	182.1	0.0
42.5°	517.5	349.8	191.7	0.0
40°	541.5	359.4	196.5	0.0
37.5°	565.4	369.0	206.0	0.0
35°	589.4	378.5	210.8	0.0
32.5°	608.6	388.1	215.6	0.0
30°	627.7	397.7	220.4	0.0
27.5°	646.9	402.5	225.2	0.0
25°	661.3	412.1	230.0	0.0
22.5°	675.6	416.9	234.8	0.0
20°	685.2	421.7	239.6	0.0
17.5°	699.6	426.5	244.4	0.0
15°	704.4	431.3	254.0	0.0
12.5°	714.0	436.0	254.0	0.0
10°	718.8	440.8	254.0	0.0
7.5°	728.3	440.8	254.0	0.0
5°	723.6	440.8	254.0	0.0
2.5°	723.6	440.8	254.0	0.0
0°	718.8	440.8	254.0	0.0

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