

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: P628509

Luminaire Tested: **IFLD-S-SA6B-940-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628509  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-940-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

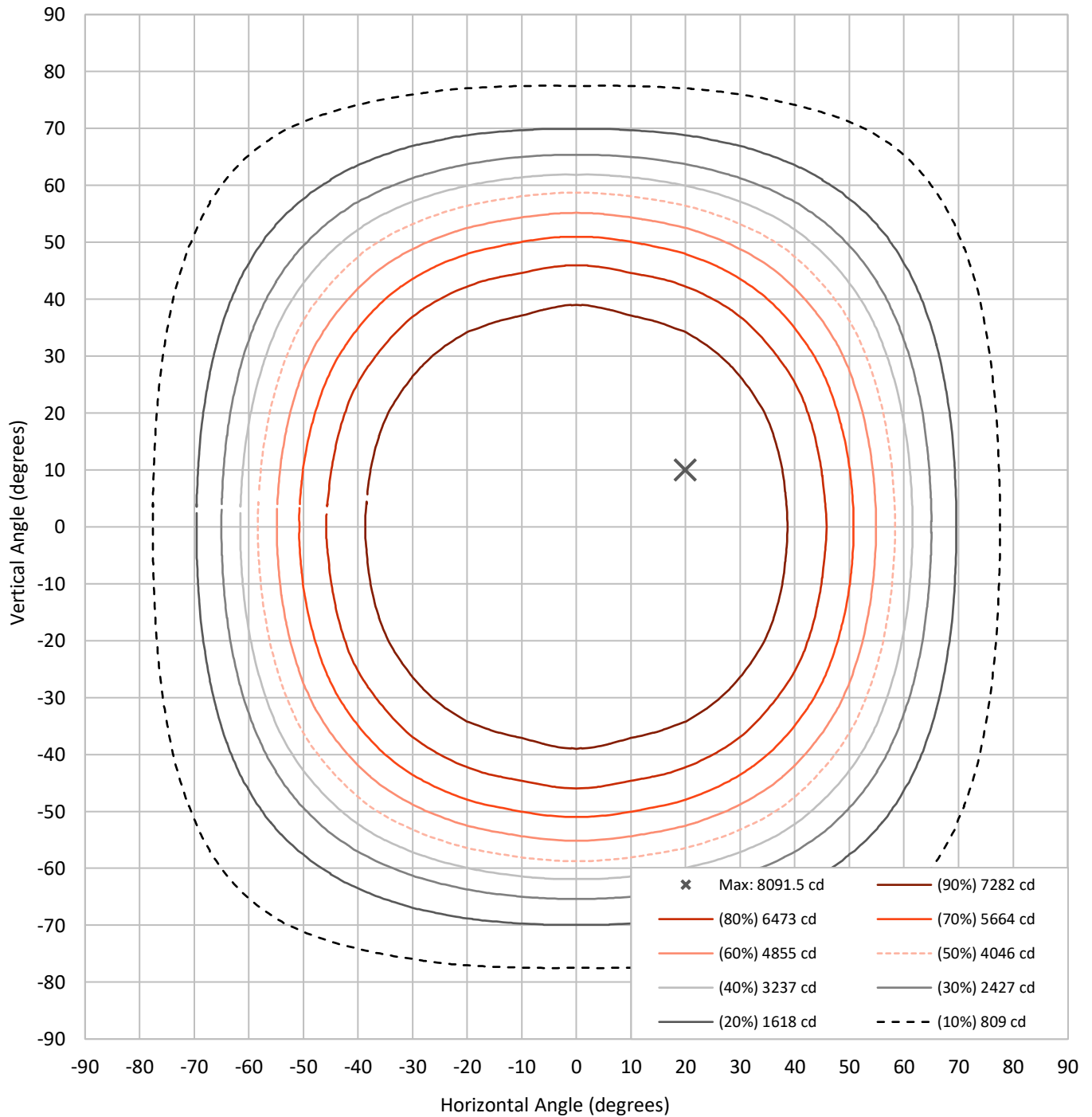
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	24823.8 lumens	Max Intensity:	8091.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	101.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	15232.4 lumens	Field Lumens:	18261 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9  
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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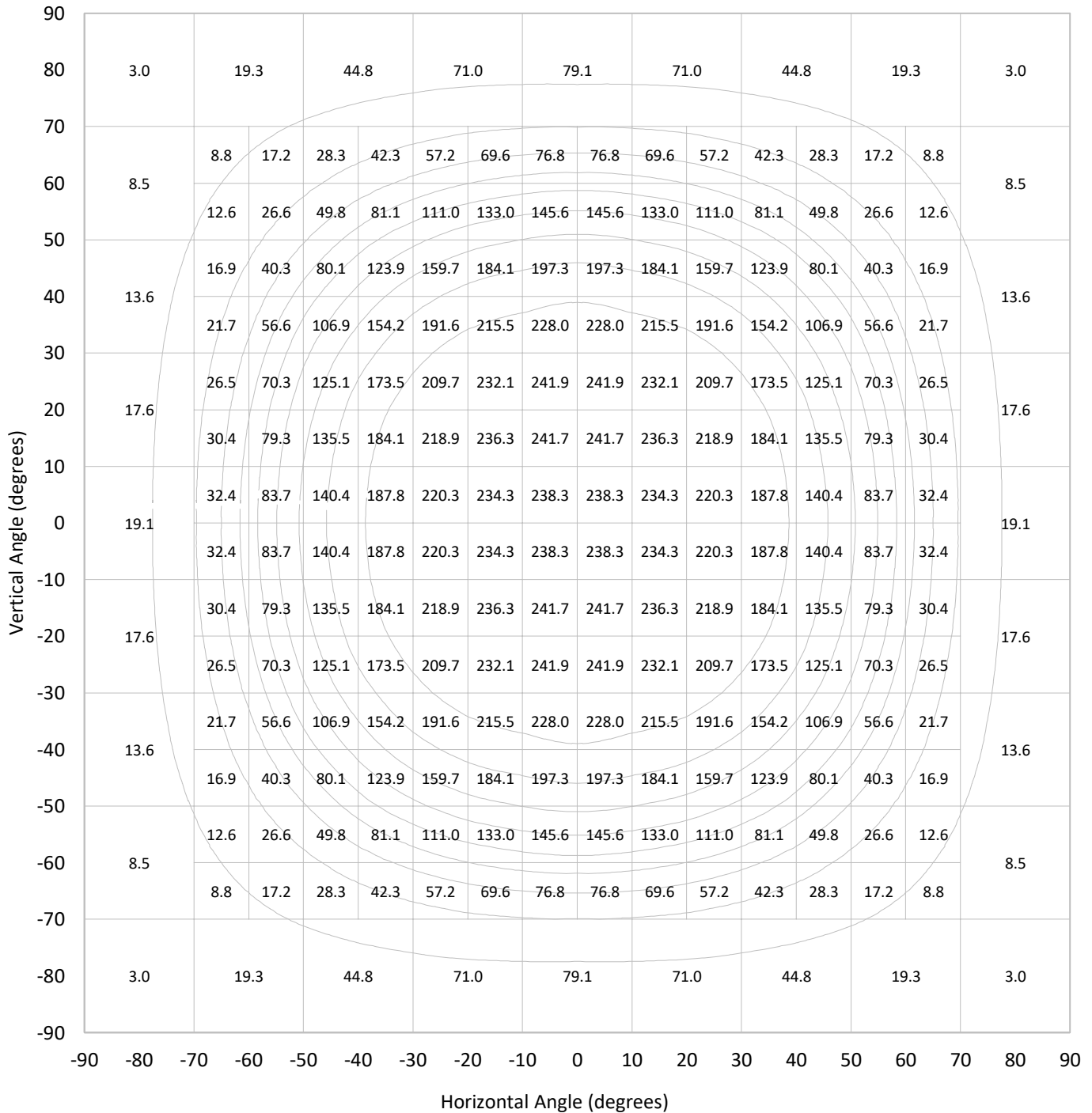
### Iso-Candela Plot





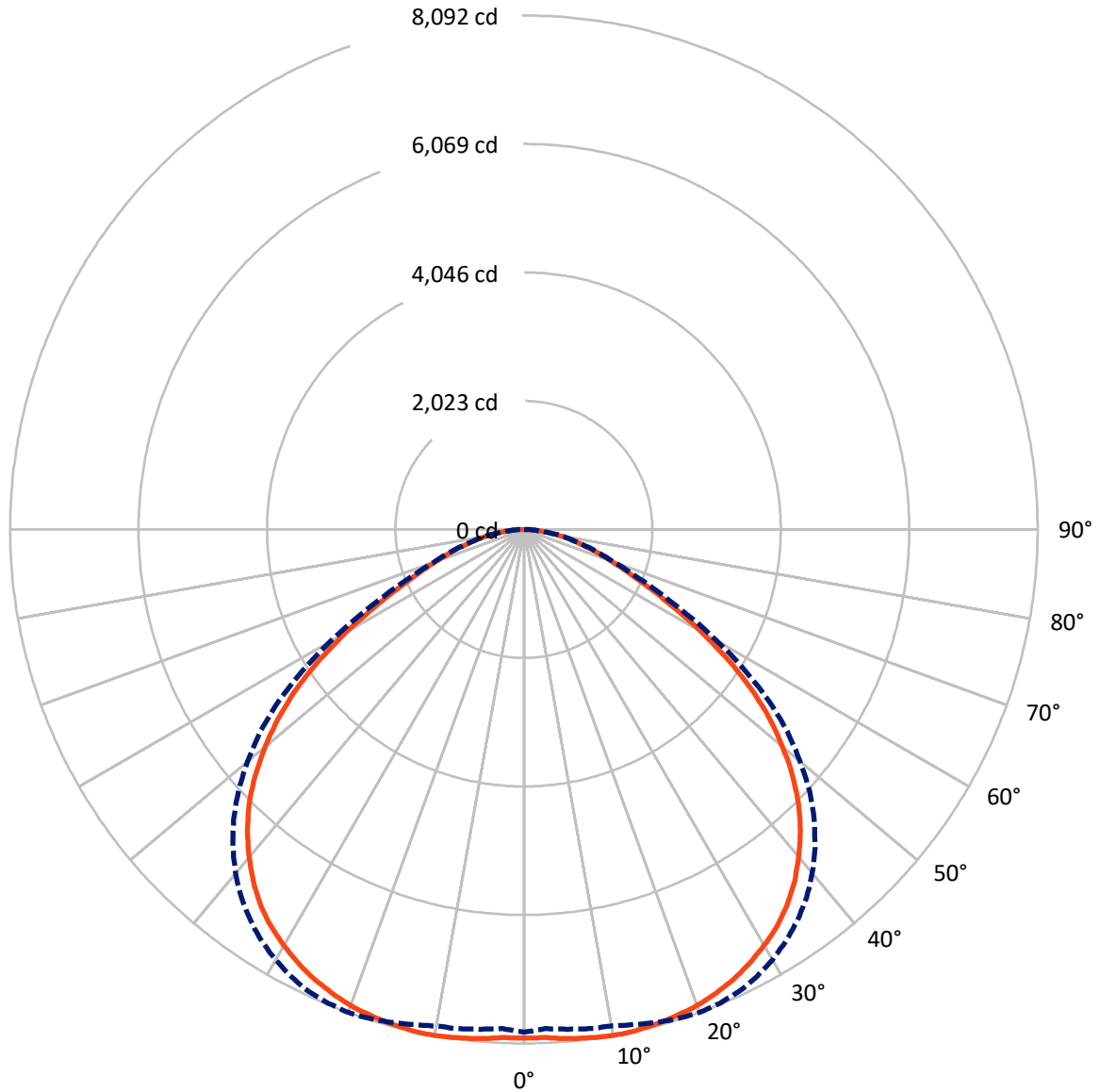
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### Lumen Table



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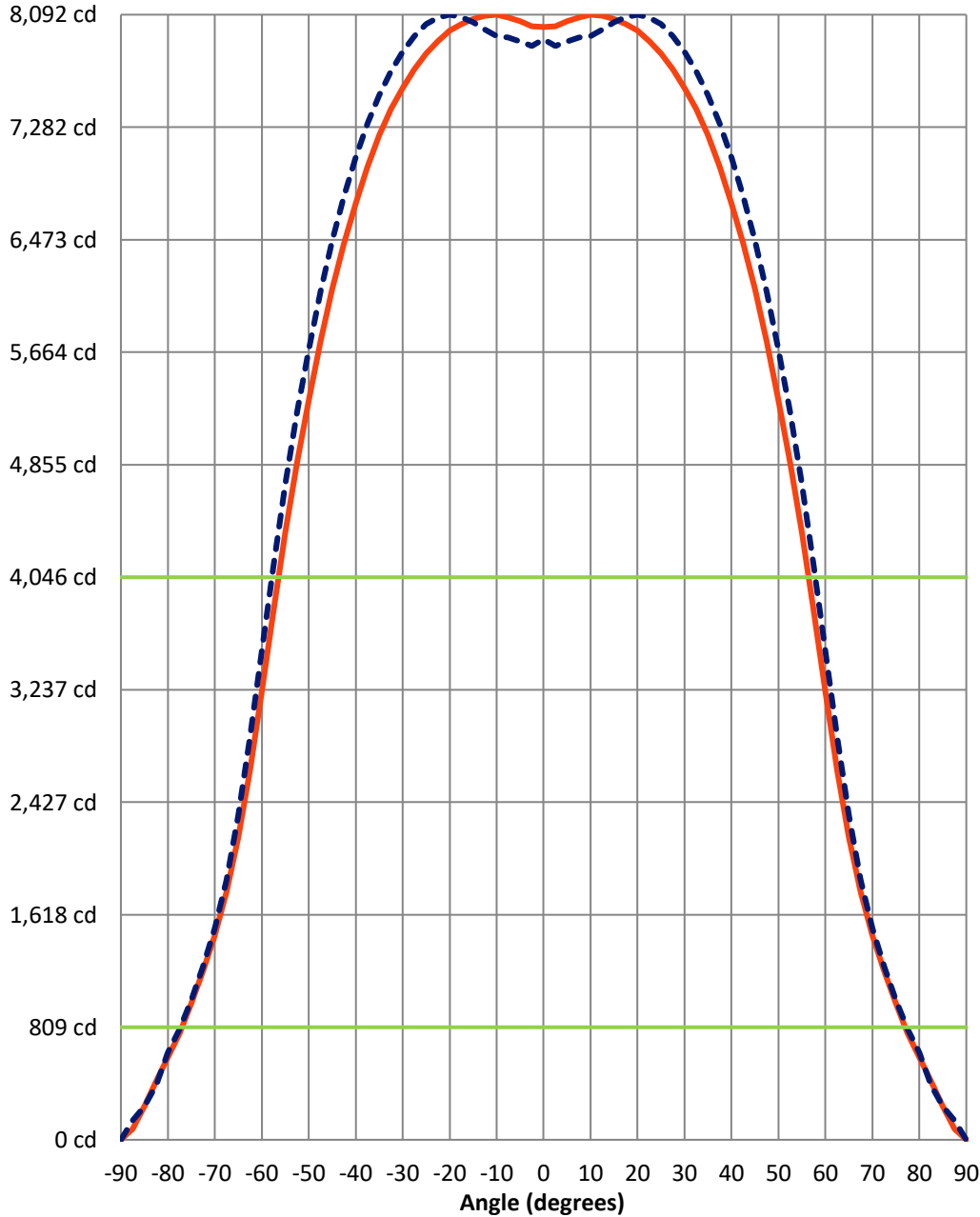
### Luminous Intensity Polar Plot



— 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: 15232.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 18261  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 6562.7  
 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°	65.3	70.5	73.1	75.7	78.4	81.0	83.6	81.0	78.4	78.4	75.7
85°	175.0	180.2	182.8	201.1	219.4	229.8	242.9	240.3	240.3	237.7	235.1
82.5°	350.0	365.7	378.7	397.0	407.5	423.1	433.6	425.7	420.5	410.1	402.2
80°	621.6	626.8	629.5	632.1	619.0	616.4	611.2	603.3	592.9	579.8	566.8
77.5°	791.4	796.6	801.8	796.6	794.0	791.4	783.6	775.7	765.3	754.8	739.2
75°	1047.4	1047.4	1047.4	1039.5	1034.3	1026.5	1013.4	1000.3	982.1	961.2	937.7
72.5°	1319.0	1316.4	1313.8	1298.1	1285.0	1269.4	1251.1	1235.4	1214.5	1191.0	1159.7
70°	1603.7	1608.9	1611.5	1590.6	1575.0	1554.1	1530.6	1501.8	1470.5	1436.5	1392.1
67.5°	1995.5	1990.2	1985.0	1956.3	1935.4	1906.7	1872.7	1830.9	1783.9	1731.7	1669.0
65°	2481.3	2489.1	2473.4	2444.7	2405.5	2358.5	2306.3	2246.2	2175.7	2097.3	2008.5
62.5°	3068.9	3082.0	3063.7	3027.1	2977.5	2914.8	2841.7	2755.5	2658.9	2549.2	2439.5
60°	3737.6	3735.0	3701.0	3651.4	3586.1	3507.7	3426.8	3332.7	3223.0	3095.1	2961.9
57.5°	4351.4	4346.1	4304.3	4254.7	4189.4	4105.8	4019.7	3920.4	3805.5	3669.7	3515.6
55°	4902.5	4897.2	4855.5	4803.2	4735.3	4651.7	4573.4	4479.3	4367.0	4223.4	4058.8
52.5°	5390.9	5393.5	5356.9	5299.5	5226.3	5145.4	5069.6	4975.6	4868.5	4724.9	4565.5
50°	5840.1	5837.5	5798.3	5746.1	5678.2	5599.8	5524.1	5430.1	5317.8	5179.3	5025.2
47.5°	6258.0	6252.8	6208.4	6150.9	6080.4	6012.5	5942.0	5858.4	5740.9	5602.4	5448.3
45°	6608.0	6597.6	6553.2	6498.3	6430.4	6370.3	6307.6	6245.0	6119.6	5991.6	5845.3
42.5°	6908.4	6905.8	6861.4	6806.5	6738.6	6686.4	6628.9	6550.5	6446.1	6328.5	6184.9
40°	7195.7	7174.8	7130.4	7078.1	7015.5	6971.1	6913.6	6835.2	6733.4	6618.5	6480.0
37.5°	7409.9	7412.5	7365.4	7308.0	7253.1	7211.3	7159.1	7086.0	6997.2	6884.9	6746.4
35°	7613.6	7600.5	7561.3	7511.7	7462.1	7415.1	7360.2	7297.5	7224.4	7119.9	6989.3
32.5°	7746.8	7765.1	7718.1	7665.8	7637.1	7600.5	7543.1	7477.8	7412.5	7308.0	7190.5
30°	7893.0	7877.4	7840.8	7796.4	7775.5	7752.0	7702.4	7639.7	7564.0	7469.9	7360.2
27.5°	7994.9	7987.1	7942.7	7900.9	7890.4	7869.5	7830.4	7775.5	7699.8	7608.4	7506.5
25°	8039.3	8044.5	8002.7	7979.2	7979.2	7966.2	7934.8	7887.8	7812.1	7728.5	7629.2
22.5°	8060.2	8055.0	8026.3	8021.0	8034.1	8023.6	8010.6	7968.8	7900.9	7833.0	7749.4
20°	8073.3	8036.7	8010.6	8031.5	8047.1	8044.5	8034.1	8008.0	7976.6	7919.2	7846.0
17.5°	8044.5	8021.0	7989.7	8021.0	8055.0	8057.6	8047.1	8031.5	8023.6	7987.1	7921.8
15°	7974.0	7955.7	7961.0	7992.3	8031.5	8044.5	8052.4	8070.7	8060.2	8031.5	7974.0
12.5°	7927.0	7903.5	7927.0	7958.3	7979.2	7987.1	8049.8	8083.7	8083.7	8057.6	8021.0
10°	7913.9	7866.9	7898.3	7927.0	7937.4	7984.5	8036.7	8073.3	8091.5	8070.7	8023.6
7.5°	7887.8	7856.5	7869.5	7882.6	7942.7	7976.6	8005.4	8044.5	8070.7	8068.0	8026.3
5°	7874.8	7835.6	7840.8	7895.7	7937.4	7961.0	7971.4	8005.4	8044.5	8052.4	8021.0
2.5°	7840.8	7822.5	7861.7	7866.9	7898.3	7916.6	7927.0	7958.3	8008.0	8026.3	8013.2
0°	7822.5	7796.4	7770.3	7791.2	7843.4	7882.6	7898.3	7945.3	8002.7	8021.0	7992.3



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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°	73.1	70.5	67.9	65.3	67.9	67.9	67.9	65.3	67.9	65.3	65.3
85°	227.2	216.8	208.9	198.5	188.1	180.2	169.8	159.3	156.7	154.1	148.9
82.5°	391.8	378.7	365.7	350.0	334.3	316.0	297.8	276.9	271.6	266.4	258.6
80°	551.1	532.8	514.5	496.3	480.6	462.3	441.4	417.9	402.2	389.2	373.5
77.5°	718.3	692.1	666.0	634.7	616.4	598.1	577.2	553.7	530.2	509.3	485.8
75°	908.9	880.2	854.1	822.7	788.8	754.8	720.9	689.5	655.6	624.2	592.9
72.5°	1120.5	1078.7	1036.9	997.7	955.9	914.2	869.7	828.0	786.2	744.4	700.0
70°	1342.5	1290.3	1238.0	1185.8	1130.9	1076.1	1023.8	971.6	919.4	864.5	814.9
67.5°	1603.7	1543.6	1475.7	1402.6	1321.6	1251.1	1183.2	1120.5	1057.8	995.1	932.4
65°	1930.2	1846.6	1755.2	1655.9	1561.9	1467.9	1368.6	1274.6	1201.5	1128.3	1057.8
62.5°	2332.4	2214.9	2086.9	1958.9	1844.0	1721.2	1606.3	1483.5	1368.6	1264.1	1177.9
60°	2813.0	2653.7	2496.9	2332.4	2173.1	2005.9	1859.6	1708.2	1564.5	1436.5	1311.2
57.5°	3343.2	3157.7	2969.7	2768.6	2551.8	2355.9	2157.4	1958.9	1789.1	1619.4	1478.3
55°	3881.2	3685.3	3473.8	3246.5	3008.9	2758.1	2489.1	2267.1	2034.6	1836.1	1653.3
52.5°	4393.2	4189.4	3970.0	3761.1	3476.4	3189.1	2893.9	2601.4	2329.8	2076.4	1854.4
50°	4850.2	4651.7	4440.2	4197.3	3933.5	3627.9	3298.8	2969.7	2648.4	2350.7	2073.8
47.5°	5268.1	5074.8	4863.3	4620.4	4380.1	4040.5	3708.8	3345.8	2988.0	2645.8	2321.9
45°	5659.9	5464.0	5244.6	5012.2	4735.3	4432.3	4090.2	3724.5	3340.6	2956.6	2583.1
42.5°	6015.1	5819.2	5597.2	5356.9	5082.7	4782.3	4450.6	4082.3	3695.8	3277.9	2867.8
40°	6325.9	6135.3	5921.1	5670.4	5414.4	5098.4	4771.9	4421.9	4022.3	3601.8	3149.9
37.5°	6597.6	6420.0	6208.4	5960.3	5688.6	5406.6	5069.6	4719.6	4359.2	3902.1	3439.8
35°	6837.9	6673.3	6456.5	6221.5	5955.0	5657.3	5341.3	4999.1	4609.9	4181.6	3732.4
32.5°	7046.8	6879.6	6681.1	6446.1	6187.5	5908.0	5584.2	5239.4	4871.1	4434.9	3946.5
30°	7224.4	7062.5	6874.4	6652.4	6404.3	6127.4	5811.4	5464.0	5087.9	4654.3	4171.1
27.5°	7378.5	7224.4	7041.6	6835.2	6597.6	6331.2	6012.5	5662.5	5278.6	4860.7	4377.5
25°	7511.7	7362.8	7193.1	6997.2	6762.1	6500.9	6200.6	5834.9	5451.0	5030.4	4552.5
22.5°	7631.9	7488.2	7318.4	7127.8	6913.6	6652.4	6349.4	5986.4	5597.2	5181.9	4711.8
20°	7738.9	7605.7	7438.6	7242.7	7028.5	6764.7	6464.4	6119.6	5727.8	5320.4	4855.5
17.5°	7825.1	7707.6	7540.4	7334.1	7119.9	6864.0	6571.4	6255.4	5840.1	5437.9	4975.6
15°	7885.2	7770.3	7618.8	7409.9	7200.9	6947.6	6655.0	6328.5	5942.0	5531.9	5074.8
12.5°	7927.0	7804.2	7663.2	7469.9	7261.0	7010.2	6725.5	6404.3	6028.2	5615.5	5161.0
10°	7937.4	7825.1	7684.1	7511.7	7308.0	7065.1	6785.6	6467.0	6098.7	5680.8	5231.6
7.5°	7942.7	7835.6	7707.6	7543.1	7341.9	7106.9	6830.0	6516.6	6150.9	5735.6	5283.8
5°	7940.1	7838.2	7723.3	7564.0	7362.8	7130.4	6858.7	6550.5	6187.5	5772.2	5323.0
2.5°	7932.2	7840.8	7733.7	7579.6	7386.3	7156.5	6887.5	6589.7	6226.7	5803.6	5354.3
0°	7953.1	7874.8	7738.9	7574.4	7391.6	7156.5	6884.9	6595.0	6231.9	5800.9	5351.7





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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°	65.3	62.7	62.7	60.1	57.5	54.8	49.6	47.0	41.8	34.0	26.1
85°	141.0	133.2	125.4	120.1	114.9	109.7	101.9	94.0	83.6	67.9	52.2
82.5°	248.1	232.5	216.8	198.5	182.8	167.2	154.1	141.0	125.4	101.9	78.4
80°	355.2	331.7	308.2	282.1	258.6	232.5	208.9	188.1	167.2	135.8	104.5
77.5°	462.3	431.0	397.0	365.7	331.7	297.8	263.8	235.1	203.7	167.2	130.6
75°	561.6	525.0	493.6	449.2	407.5	363.0	318.6	279.5	240.3	195.9	156.7
72.5°	660.8	613.8	569.4	527.6	480.6	425.7	376.1	326.5	276.9	224.6	177.6
70°	760.1	702.6	647.7	598.1	545.9	491.0	431.0	373.5	313.4	250.7	195.9
67.5°	861.9	796.6	733.9	671.2	611.2	548.5	485.8	420.5	350.0	276.9	216.8
65°	974.2	893.3	817.5	747.0	676.5	608.6	538.0	467.5	389.2	305.6	235.1
62.5°	1086.5	997.7	908.9	820.1	741.8	666.0	590.3	511.9	425.7	336.9	253.4
60°	1206.7	1104.8	1003.0	903.7	807.1	723.5	639.9	556.3	464.9	365.7	271.6
57.5°	1339.9	1217.1	1102.2	989.9	880.2	780.9	689.5	600.7	498.9	394.4	292.5
55°	1491.4	1339.9	1204.1	1078.7	958.6	838.4	739.2	647.7	538.0	423.1	316.0
52.5°	1650.7	1475.7	1311.2	1170.1	1042.1	906.3	786.2	684.3	577.2	451.9	336.9
50°	1836.1	1614.1	1431.3	1258.9	1115.3	974.2	835.8	726.1	616.4	485.8	357.8
47.5°	2026.8	1781.3	1551.4	1363.4	1193.6	1039.5	893.3	762.7	653.0	517.1	378.7
45°	2248.8	1940.6	1687.3	1465.3	1269.4	1107.4	950.7	801.8	684.3	548.5	399.6
42.5°	2463.0	2128.7	1828.3	1577.6	1355.6	1172.7	1003.0	843.6	715.7	579.8	417.9
40°	2716.3	2316.7	1964.1	1684.7	1441.7	1235.4	1055.2	888.0	744.4	608.6	436.2
37.5°	2959.2	2507.4	2128.7	1802.2	1525.3	1298.1	1107.4	929.8	770.5	637.3	459.7
35°	3199.5	2718.9	2285.4	1911.9	1611.5	1368.6	1159.7	969.0	796.6	660.8	480.6
32.5°	3429.4	2917.4	2444.7	2034.6	1705.5	1433.9	1206.7	1005.6	822.7	681.7	501.5
30°	3643.5	3105.5	2601.4	2160.0	1791.7	1494.0	1251.1	1042.1	854.1	700.0	522.4
27.5°	3839.4	3288.3	2758.1	2277.5	1872.7	1548.8	1298.1	1076.1	880.2	718.3	540.7
25°	4017.0	3452.9	2901.8	2384.6	1945.8	1608.9	1342.5	1110.0	903.7	733.9	556.3
22.5°	4184.2	3604.4	3032.4	2491.7	2034.6	1669.0	1384.3	1141.4	927.2	749.6	572.0
20°	4330.5	3742.8	3157.7	2598.8	2113.0	1723.8	1420.9	1170.1	948.1	760.1	587.7
17.5°	4448.0	3865.6	3270.1	2692.8	2180.9	1770.8	1452.2	1196.2	966.4	773.1	598.1
15°	4552.5	3970.0	3364.1	2773.8	2241.0	1810.0	1480.9	1217.1	982.1	780.9	611.2
12.5°	4641.3	4058.8	3445.0	2844.3	2293.2	1844.0	1504.4	1232.8	995.1	788.8	619.0
10°	4714.4	4129.4	3513.0	2899.2	2335.0	1870.1	1522.7	1248.5	1005.6	796.6	626.8
7.5°	4769.3	4181.6	3562.6	2946.2	2369.0	1888.4	1538.4	1258.9	1016.0	801.8	639.9
5°	4811.0	4226.0	3601.8	2977.5	2395.1	1914.5	1556.7	1272.0	1026.5	807.1	639.9
2.5°	4842.4	4262.6	3633.1	3003.6	2416.0	1909.3	1556.7	1269.4	1026.5	807.1	637.3
0°	4837.2	4265.2	3630.5	3003.6	2416.0	1904.0	1556.7	1266.8	1026.5	807.1	637.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.3	13.1	5.2	0.0
85°	39.2	26.1	13.1	0.0
82.5°	57.5	36.6	18.3	0.0
80°	75.7	49.6	23.5	0.0
77.5°	96.6	62.7	31.3	0.0
75°	114.9	73.1	36.6	0.0
72.5°	133.2	86.2	41.8	0.0
70°	148.9	96.6	47.0	0.0
67.5°	164.5	109.7	54.8	0.0
65°	177.6	120.1	60.1	0.0
62.5°	188.1	133.2	65.3	0.0
60°	201.1	143.7	70.5	0.0
57.5°	211.6	151.5	75.7	0.0
55°	222.0	156.7	81.0	0.0
52.5°	232.5	164.5	86.2	0.0
50°	242.9	172.4	91.4	0.0
47.5°	253.4	177.6	94.0	0.0
45°	269.0	185.4	99.3	0.0
42.5°	282.1	190.7	104.5	0.0
40°	295.1	195.9	107.1	0.0
37.5°	308.2	201.1	112.3	0.0
35°	321.3	206.3	114.9	0.0
32.5°	331.7	211.6	117.5	0.0
30°	342.2	216.8	120.1	0.0
27.5°	352.6	219.4	122.8	0.0
25°	360.4	224.6	125.4	0.0
22.5°	368.3	227.2	128.0	0.0
20°	373.5	229.8	130.6	0.0
17.5°	381.3	232.5	133.2	0.0
15°	383.9	235.1	138.4	0.0
12.5°	389.2	237.7	138.4	0.0
10°	391.8	240.3	138.4	0.0
7.5°	397.0	240.3	138.4	0.0
5°	394.4	240.3	138.4	0.0
2.5°	394.4	240.3	138.4	0.0
0°	391.8	240.3	138.4	0.0

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