

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: P628346

Luminaire Tested: **IFLD-L-SA7C-760-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628346
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-760-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	46668.8 lumens	Max Intensity:	15212.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	126.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

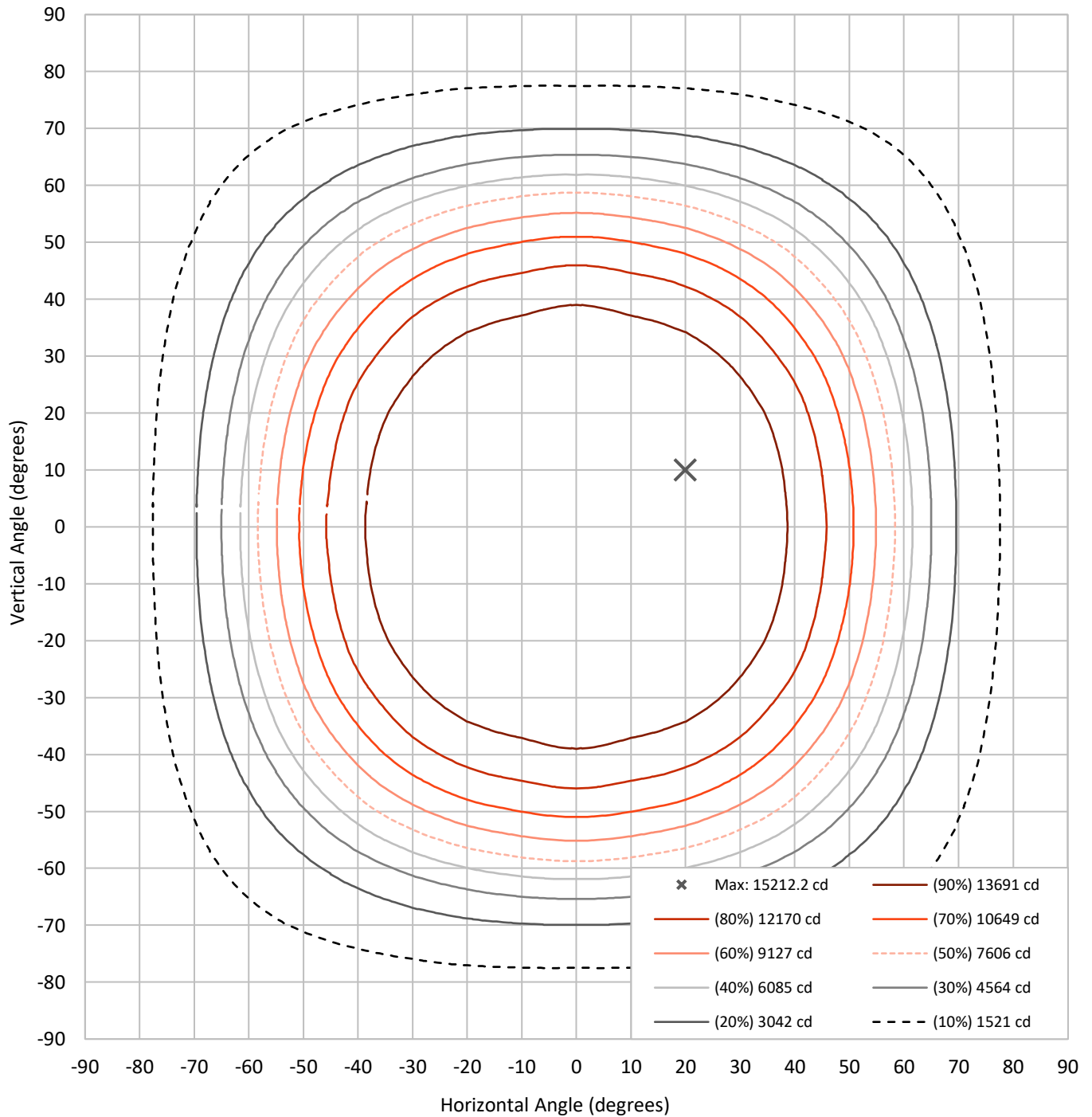
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	28637 lumens	Field Lumens:	34330.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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



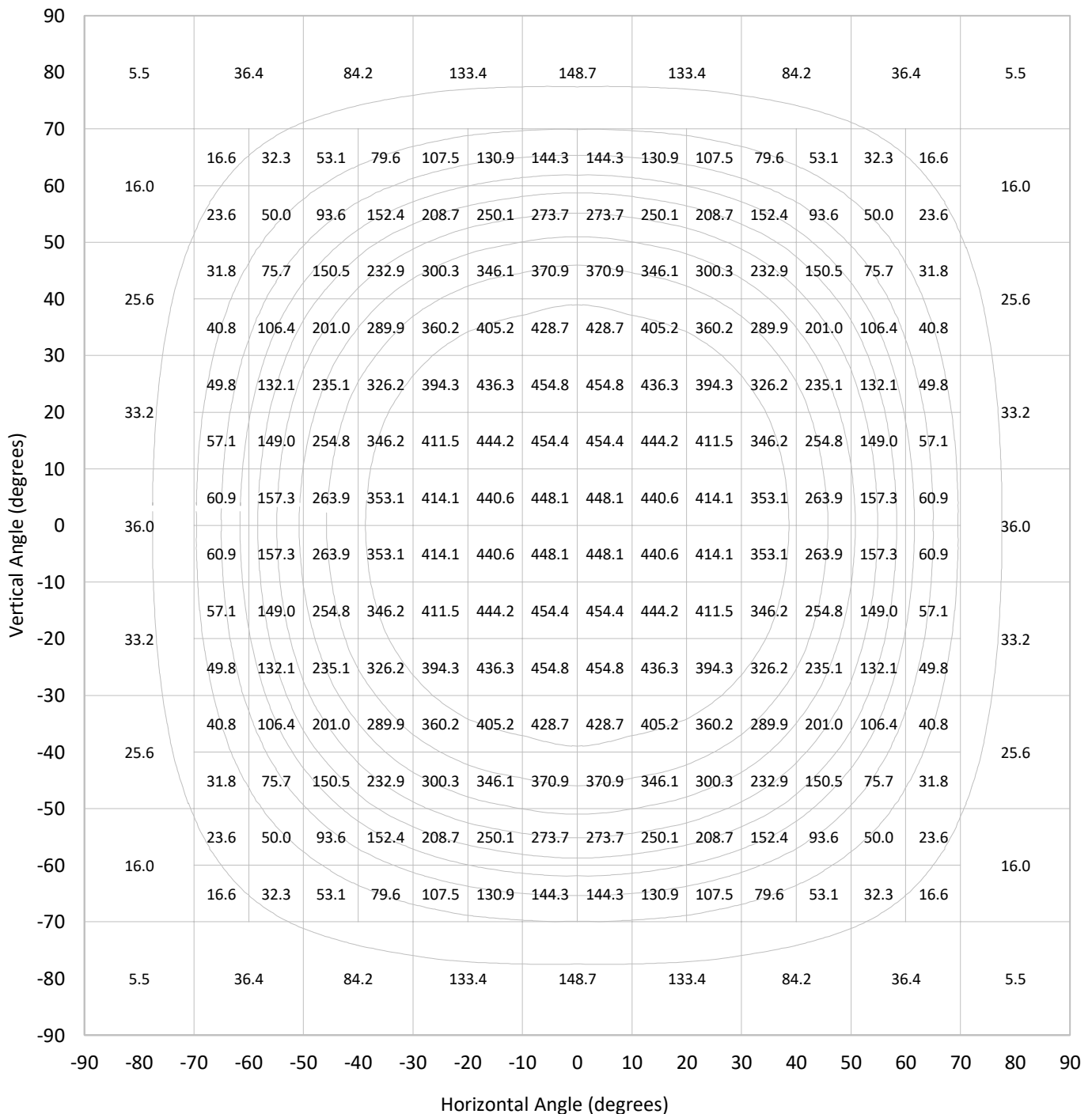
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Iso-Candela Plot



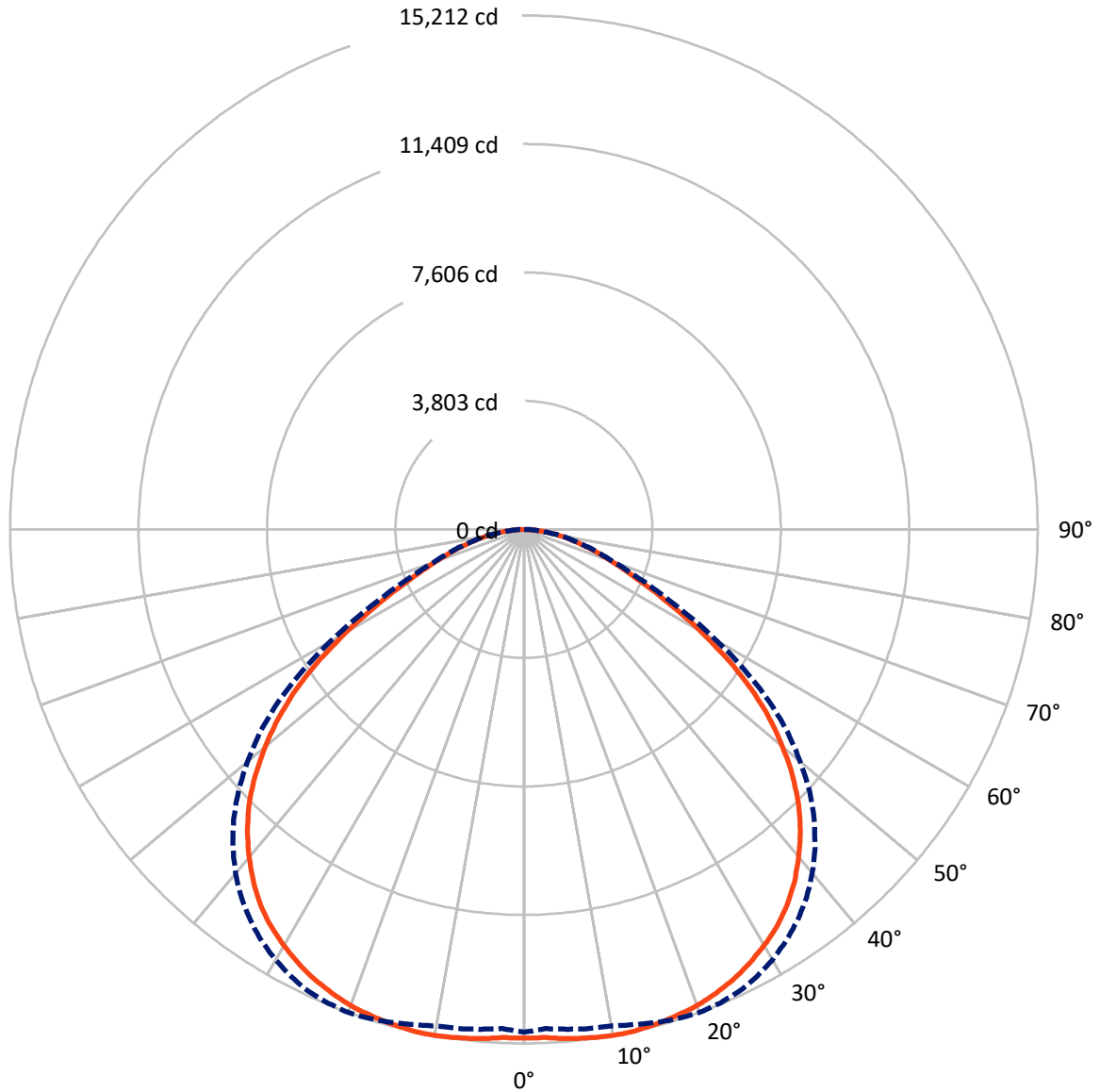
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Lumen Table



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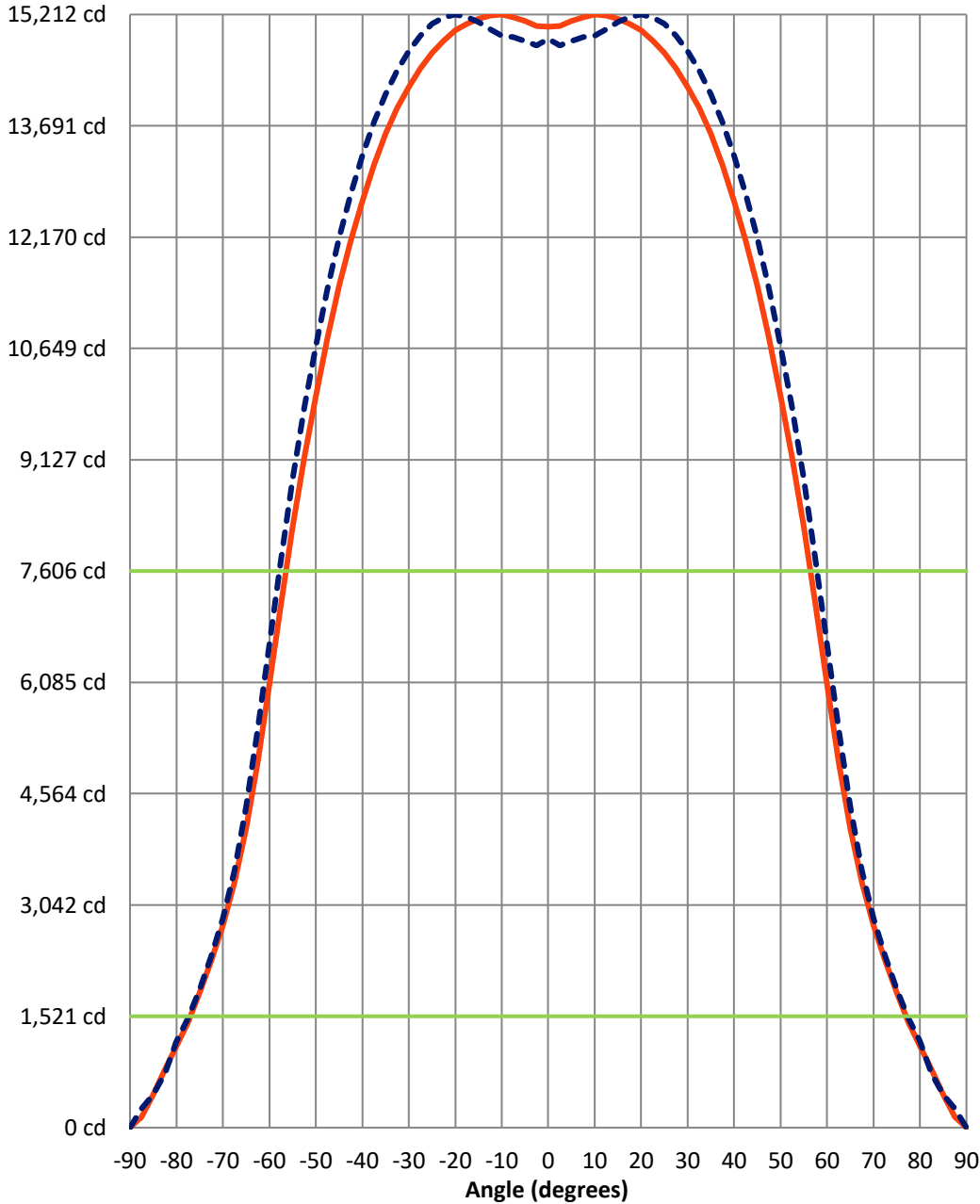
Luminous Intensity Polar Plot



— 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: 28637
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 34330.8
 Efficiency: 73.6%

Spill:
 Lumens: 12338
 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°	122.8	132.6	137.5	142.4	147.3	152.2	157.1	152.2	147.3	147.3	142.4
85°	329.0	338.8	343.7	378.1	412.5	432.1	456.7	451.7	451.7	446.8	441.9
82.5°	658.0	687.4	712.0	746.4	766.0	795.5	815.1	800.4	790.6	770.9	756.2
80°	1168.7	1178.5	1183.4	1188.3	1163.7	1158.8	1149.0	1134.3	1114.6	1090.1	1065.5
77.5°	1487.8	1497.6	1507.5	1497.6	1492.7	1487.8	1473.1	1458.4	1438.7	1419.1	1389.6
75°	1969.0	1969.0	1969.0	1954.3	1944.5	1929.8	1905.2	1880.7	1846.3	1807.0	1762.8
72.5°	2479.7	2474.8	2469.9	2440.4	2415.9	2386.4	2352.0	2322.6	2283.3	2239.1	2180.2
70°	3014.9	3024.8	3029.7	2990.4	2960.9	2921.6	2877.4	2823.4	2764.5	2700.7	2617.2
67.5°	3751.5	3741.7	3731.8	3677.8	3638.5	3584.5	3520.7	3442.1	3353.7	3255.5	3137.7
65°	4664.8	4679.5	4650.1	4596.1	4522.4	4434.0	4335.8	4222.9	4090.3	3943.0	3776.0
62.5°	5769.6	5794.2	5759.8	5691.1	5597.8	5479.9	5342.4	5180.4	4998.7	4792.5	4586.2
60°	7026.7	7021.8	6957.9	6864.6	6741.9	6594.6	6442.3	6265.6	6059.3	5818.7	5568.3
57.5°	8180.6	8170.8	8092.2	7998.9	7876.1	7719.0	7557.0	7370.4	7154.3	6899.0	6609.3
55°	9216.7	9206.8	9128.3	9030.1	8902.4	8745.3	8598.0	8421.2	8210.0	7940.0	7630.6
52.5°	10134.9	10139.8	10071.1	9963.0	9825.5	9673.3	9530.9	9354.2	9152.8	8882.8	8583.2
50°	10979.5	10974.6	10900.9	10802.7	10675.0	10527.7	10385.3	10208.5	9997.4	9737.2	9447.4
47.5°	11765.1	11755.3	11671.8	11563.8	11431.2	11303.5	11171.0	11013.8	10792.9	10532.6	10242.9
45°	12423.1	12403.5	12320.0	12216.9	12089.2	11976.3	11858.4	11740.6	11504.9	11264.3	10989.3
42.5°	12987.8	12982.9	12899.4	12796.3	12668.6	12570.4	12462.4	12315.1	12118.7	11897.7	11627.6
40°	13527.9	13488.6	13405.2	13307.0	13189.1	13105.6	12997.6	12850.3	12658.8	12442.7	12182.5
37.5°	13930.6	13935.5	13847.1	13739.1	13635.9	13557.4	13459.2	13321.7	13154.7	12943.6	12683.3
35°	14313.6	14289.0	14215.4	14122.1	14028.8	13940.4	13837.3	13719.4	13581.9	13385.5	13140.0
32.5°	14564.0	14598.4	14510.0	14411.8	14357.8	14289.0	14181.0	14058.2	13935.5	13739.1	13518.1
30°	14839.0	14809.5	14740.8	14657.3	14618.0	14573.8	14480.5	14362.7	14220.3	14043.5	13837.3
27.5°	15030.5	15015.7	14932.3	14853.7	14834.1	14794.8	14721.1	14618.0	14475.6	14303.7	14112.2
25°	15114.0	15123.8	15045.2	15001.0	15001.0	14976.5	14917.5	14829.2	14686.8	14529.6	14343.0
22.5°	15153.2	15143.4	15089.4	15079.6	15104.1	15084.5	15059.9	14981.4	14853.7	14726.0	14568.9
20°	15177.8	15109.0	15059.9	15099.2	15128.7	15123.8	15104.1	15055.0	14996.1	14888.1	14750.6
17.5°	15123.8	15079.6	15020.7	15079.6	15143.4	15148.3	15128.7	15099.2	15084.5	15015.7	14893.0
15°	14991.2	14956.8	14966.6	15025.6	15099.2	15123.8	15138.5	15172.9	15153.2	15099.2	14991.2
12.5°	14902.8	14858.6	14902.8	14961.7	15001.0	15015.7	15133.6	15197.4	15197.4	15148.3	15079.6
10°	14878.3	14789.9	14848.8	14902.8	14922.4	15010.8	15109.0	15177.8	15212.2	15172.9	15084.5
7.5°	14829.2	14770.2	14794.8	14819.3	14932.3	14996.1	15050.1	15123.8	15172.9	15168.0	15089.4
5°	14804.6	14730.9	14740.8	14843.9	14922.4	14966.6	14986.3	15050.1	15123.8	15138.5	15079.6
2.5°	14740.8	14706.4	14780.0	14789.9	14848.8	14883.2	14902.8	14961.7	15055.0	15089.4	15064.8
0°	14706.4	14657.3	14608.2	14647.5	14745.7	14819.3	14848.8	14937.2	15045.2	15079.6	15025.6



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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°	137.5	132.6	127.7	122.8	127.7	127.7	127.7	122.8	127.7	122.8	122.8
85°	427.2	407.6	392.8	373.2	353.5	338.8	319.2	299.5	294.6	289.7	279.9
82.5°	736.5	712.0	687.4	658.0	628.5	594.1	559.8	520.5	510.7	500.9	486.1
80°	1036.1	1001.7	967.3	933.0	903.5	869.1	829.8	785.7	756.2	731.6	702.2
77.5°	1350.3	1301.2	1252.1	1193.2	1158.8	1124.5	1085.2	1041.0	996.8	957.5	913.3
75°	1708.8	1654.8	1605.7	1546.7	1482.9	1419.1	1355.2	1296.3	1232.5	1173.6	1114.6
72.5°	2106.5	2028.0	1949.4	1875.7	1797.2	1718.6	1635.1	1556.6	1478.0	1399.4	1316.0
70°	2523.9	2425.7	2327.5	2229.3	2126.2	2023.0	1924.8	1826.6	1728.4	1625.3	1532.0
67.5°	3014.9	2902.0	2774.3	2636.8	2484.6	2352.0	2224.4	2106.5	1988.7	1870.8	1753.0
65°	3628.7	3471.6	3299.7	3113.1	2936.4	2759.6	2573.0	2396.2	2258.7	2121.3	1988.7
62.5°	4384.9	4163.9	3923.3	3682.7	3466.7	3235.9	3019.8	2789.1	2573.0	2376.6	2214.6
60°	5288.4	4988.9	4694.3	4384.9	4085.4	3771.1	3496.1	3211.3	2941.3	2700.7	2465.0
57.5°	6285.2	5936.6	5583.0	5204.9	4797.4	4429.1	4055.9	3682.7	3363.6	3044.4	2779.2
55°	7296.7	6928.5	6530.7	6103.5	5656.7	5185.3	4679.5	4262.2	3825.1	3452.0	3108.2
52.5°	8259.2	7876.1	7463.7	7070.9	6535.6	5995.5	5440.6	4890.7	4380.0	3903.7	3486.3
50°	9118.5	8745.3	8347.5	7890.9	7394.9	6820.4	6201.7	5583.0	4979.1	4419.3	3898.8
47.5°	9904.1	9540.7	9143.0	8686.3	8234.6	7596.3	6972.6	6290.1	5617.4	4974.1	4365.3
45°	10640.7	10272.4	9859.9	9422.9	8902.4	8332.8	7689.6	7002.1	6280.3	5558.5	4856.3
42.5°	11308.5	10940.2	10522.8	10071.1	9555.5	8990.8	8367.2	7674.8	6948.1	6162.4	5391.5
40°	11892.8	11534.3	11131.7	10660.3	10179.1	9584.9	8971.1	8313.2	7561.9	6771.3	5921.8
37.5°	12403.5	12069.6	11671.8	11205.3	10694.7	10164.4	9530.9	8872.9	8195.3	7336.0	6466.9
35°	12855.2	12545.9	12138.3	11696.4	11195.5	10635.7	10041.6	9398.3	8666.7	7861.4	7016.8
32.5°	13248.0	12933.8	12560.6	12118.7	11632.5	11107.1	10498.3	9850.1	9157.7	8337.7	7419.5
30°	13581.9	13277.5	12924.0	12506.6	12040.1	11519.6	10925.5	10272.4	9565.3	8750.2	7841.8
27.5°	13871.6	13581.9	13238.2	12850.3	12403.5	11902.6	11303.5	10645.6	9923.7	9138.1	8229.7
25°	14122.1	13842.2	13523.0	13154.7	12712.8	12221.8	11657.1	10969.6	10247.8	9457.3	8558.7
22.5°	14347.9	14077.9	13758.7	13400.3	12997.6	12506.6	11937.0	11254.4	10522.8	9742.1	8858.2
20°	14549.3	14298.8	13984.6	13616.3	13213.7	12717.7	12153.0	11504.9	10768.3	10002.3	9128.3
17.5°	14711.3	14490.3	14176.1	13788.2	13385.5	12904.3	12354.4	11760.2	10979.5	10223.3	9354.2
15°	14824.2	14608.2	14323.4	13930.6	13537.7	13061.4	12511.5	11897.7	11171.0	10400.0	9540.7
12.5°	14902.8	14672.0	14406.9	14043.5	13650.7	13179.3	12644.1	12040.1	11333.0	10557.2	9702.8
10°	14922.4	14711.3	14446.1	14122.1	13739.1	13282.4	12757.0	12157.9	11465.6	10679.9	9835.4
7.5°	14932.3	14730.9	14490.3	14181.0	13802.9	13361.0	12840.5	12251.2	11563.8	10783.1	9933.6
5°	14927.4	14735.9	14519.8	14220.3	13842.2	13405.2	12894.5	12315.1	11632.5	10851.8	10007.2
2.5°	14912.6	14740.8	14539.4	14249.7	13886.4	13454.3	12948.5	12388.7	11706.2	10910.7	10066.1
0°	14951.9	14804.6	14549.3	14239.9	13896.2	13454.3	12943.6	12398.5	11716.0	10905.8	10061.2



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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°	122.8	117.8	117.8	112.9	108.0	103.1	93.3	88.4	78.6	63.8	49.1
85°	265.2	250.4	235.7	225.9	216.1	206.2	191.5	176.8	157.1	127.7	98.2
82.5°	466.5	437.0	407.6	373.2	343.7	314.3	289.7	265.2	235.7	191.5	147.3
80°	667.8	623.6	579.4	530.3	486.1	437.0	392.8	353.5	314.3	255.3	196.4
77.5°	869.1	810.2	746.4	687.4	623.6	559.8	495.9	441.9	383.0	314.3	245.5
75°	1055.7	987.0	928.0	844.6	766.0	682.5	599.1	525.4	451.7	368.3	294.6
72.5°	1242.3	1153.9	1070.4	991.9	903.5	800.4	707.1	613.8	520.5	422.3	333.9
70°	1428.9	1320.9	1217.8	1124.5	1026.3	923.1	810.2	702.2	589.2	471.4	368.3
67.5°	1620.4	1497.6	1379.8	1262.0	1149.0	1031.2	913.3	790.6	658.0	520.5	407.6
65°	1831.5	1679.3	1536.9	1404.4	1271.8	1144.1	1011.5	878.9	731.6	574.5	441.9
62.5°	2042.7	1875.7	1708.8	1541.8	1394.5	1252.1	1109.7	962.4	800.4	633.4	476.3
60°	2268.6	2077.1	1885.6	1699.0	1517.3	1360.2	1203.0	1045.9	874.0	687.4	510.7
57.5°	2519.0	2288.2	2072.2	1861.0	1654.8	1468.2	1296.3	1129.4	937.9	741.5	550.0
55°	2803.8	2519.0	2263.7	2028.0	1802.1	1576.2	1389.6	1217.8	1011.5	795.5	594.1
52.5°	3103.3	2774.3	2465.0	2199.8	1959.2	1703.9	1478.0	1286.5	1085.2	849.5	633.4
50°	3452.0	3034.6	2690.9	2366.8	2096.7	1831.5	1571.3	1365.1	1158.8	913.3	672.7
47.5°	3810.4	3348.8	2916.7	2563.2	2244.0	1954.3	1679.3	1433.8	1227.6	972.2	712.0
45°	4227.8	3648.4	3172.1	2754.7	2386.4	2082.0	1787.4	1507.5	1286.5	1031.2	751.3
42.5°	4630.4	4001.9	3437.2	2965.8	2548.5	2204.7	1885.6	1586.0	1345.4	1090.1	785.7
40°	5106.7	4355.4	3692.6	3167.2	2710.5	2322.6	1983.8	1669.5	1399.4	1144.1	820.0
37.5°	5563.4	4713.9	4001.9	3388.1	2867.6	2440.4	2082.0	1748.1	1448.5	1198.1	864.2
35°	6015.1	5111.6	4296.5	3594.4	3029.7	2573.0	2180.2	1821.7	1497.6	1242.3	903.5
32.5°	6447.2	5484.8	4596.1	3825.1	3206.4	2695.8	2268.6	1890.5	1546.7	1281.6	942.8
30°	6849.9	5838.4	4890.7	4060.8	3368.5	2808.7	2352.0	1959.2	1605.7	1316.0	982.1
27.5°	7218.2	6182.1	5185.3	4281.8	3520.7	2911.8	2440.4	2023.0	1654.8	1350.3	1016.4
25°	7552.1	6491.4	5455.4	4483.1	3658.2	3024.8	2523.9	2086.9	1699.0	1379.8	1045.9
22.5°	7866.3	6776.2	5700.9	4684.4	3825.1	3137.7	2602.5	2145.8	1743.2	1409.3	1075.4
20°	8141.3	7036.5	5936.6	4885.8	3972.4	3240.8	2671.2	2199.8	1782.4	1428.9	1104.8
17.5°	8362.3	7267.3	6147.7	5062.5	4100.1	3329.2	2730.1	2248.9	1816.8	1453.5	1124.5
15°	8558.7	7463.7	6324.5	5214.8	4213.1	3402.8	2784.1	2288.2	1846.3	1468.2	1149.0
12.5°	8725.6	7630.6	6476.7	5347.3	4311.3	3466.7	2828.3	2317.7	1870.8	1482.9	1163.7
10°	8863.1	7763.2	6604.4	5450.5	4389.8	3515.8	2862.7	2347.1	1890.5	1497.6	1178.5
7.5°	8966.2	7861.4	6697.7	5538.8	4453.7	3550.2	2892.2	2366.8	1910.1	1507.5	1203.0
5°	9044.8	7944.9	6771.3	5597.8	4502.8	3599.3	2926.5	2391.3	1929.8	1517.3	1203.0
2.5°	9103.7	8013.6	6830.2	5646.9	4542.0	3589.4	2926.5	2386.4	1929.8	1517.3	1198.1
0°	9093.9	8018.5	6825.3	5646.9	4542.0	3579.6	2926.5	2381.5	1929.8	1517.3	1198.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	34.4	24.6	9.8	0.0
85°	73.7	49.1	24.6	0.0
82.5°	108.0	68.7	34.4	0.0
80°	142.4	93.3	44.2	0.0
77.5°	181.7	117.8	58.9	0.0
75°	216.1	137.5	68.7	0.0
72.5°	250.4	162.0	78.6	0.0
70°	279.9	181.7	88.4	0.0
67.5°	309.3	206.2	103.1	0.0
65°	333.9	225.9	112.9	0.0
62.5°	353.5	250.4	122.8	0.0
60°	378.1	270.1	132.6	0.0
57.5°	397.7	284.8	142.4	0.0
55°	417.4	294.6	152.2	0.0
52.5°	437.0	309.3	162.0	0.0
50°	456.7	324.1	171.9	0.0
47.5°	476.3	333.9	176.8	0.0
45°	505.8	348.6	186.6	0.0
42.5°	530.3	358.5	196.4	0.0
40°	554.9	368.3	201.3	0.0
37.5°	579.4	378.1	211.1	0.0
35°	604.0	387.9	216.1	0.0
32.5°	623.6	397.7	221.0	0.0
30°	643.3	407.6	225.9	0.0
27.5°	662.9	412.5	230.8	0.0
25°	677.6	422.3	235.7	0.0
22.5°	692.4	427.2	240.6	0.0
20°	702.2	432.1	245.5	0.0
17.5°	716.9	437.0	250.4	0.0
15°	721.8	441.9	260.2	0.0
12.5°	731.6	446.8	260.2	0.0
10°	736.5	451.7	260.2	0.0
7.5°	746.4	451.7	260.2	0.0
5°	741.5	451.7	260.2	0.0
2.5°	741.5	451.7	260.2	0.0
0°	736.5	451.7	260.2	0.0

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