

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: P628260

Luminaire Tested: **IFLD-L-SA7D-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628260
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	49514.2 lumens	Max Intensity:	16139.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	117.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

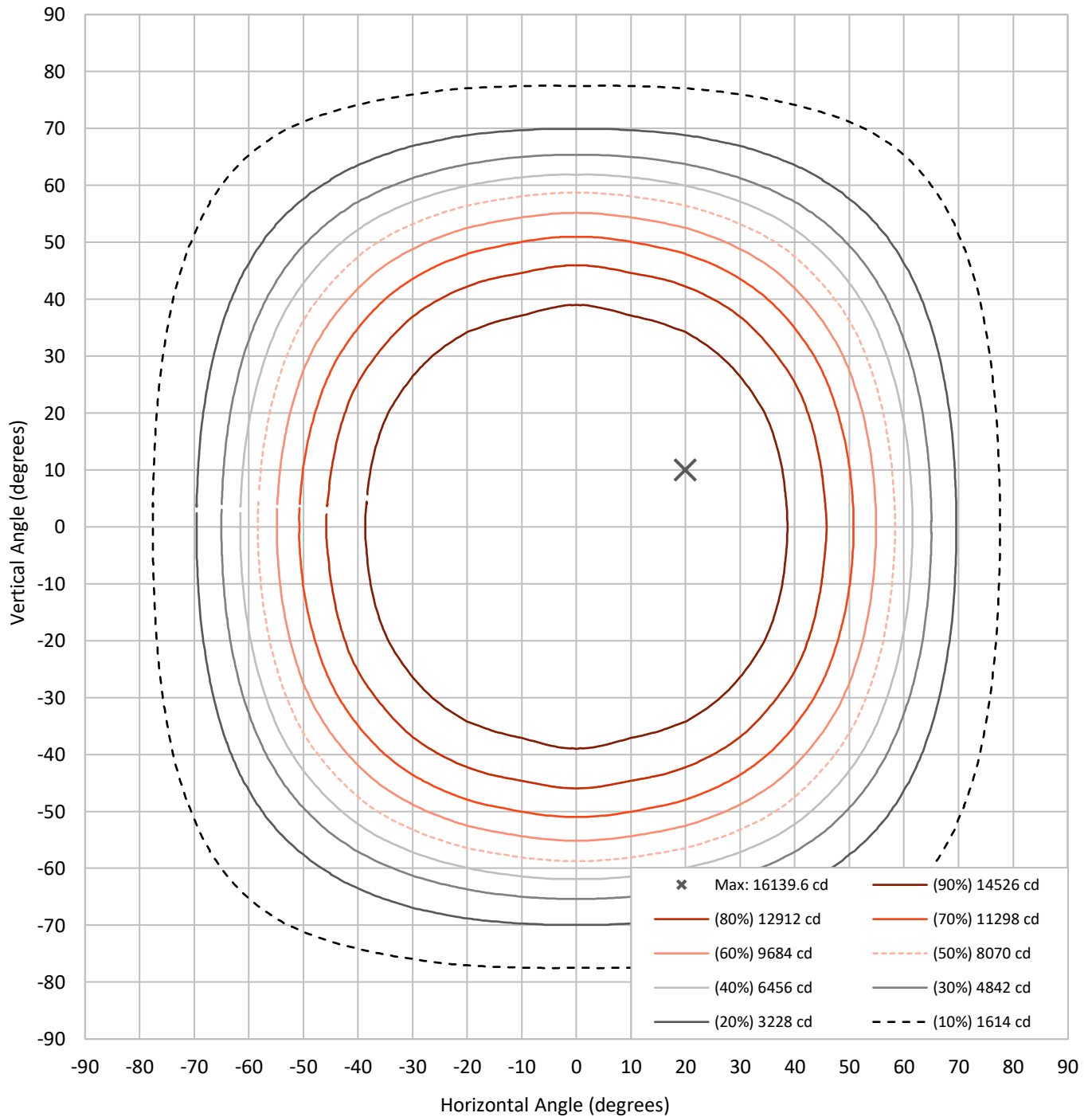
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	30383 lumens	Field Lumens:	36424 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 422.6
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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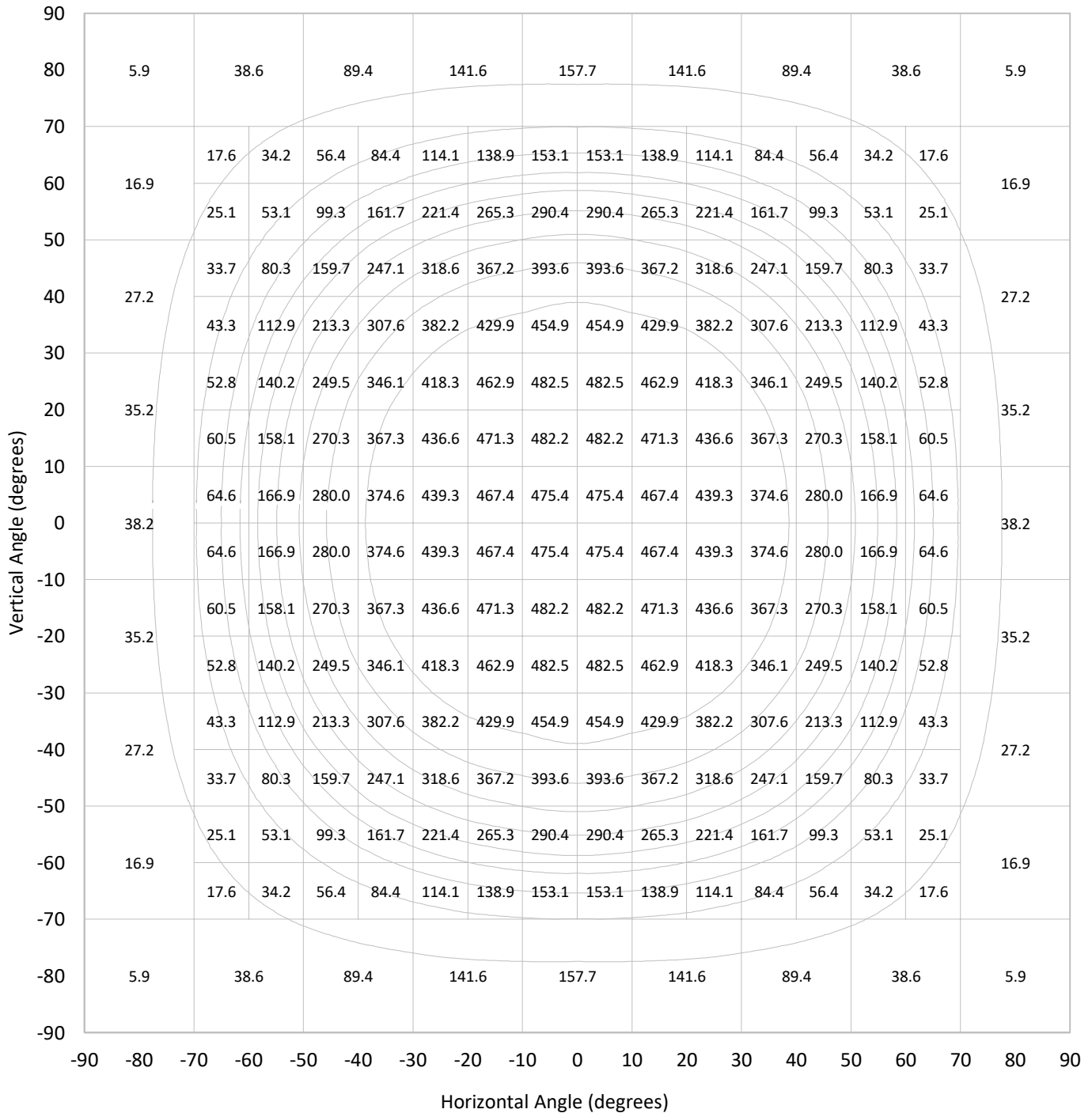
Iso-Candela Plot





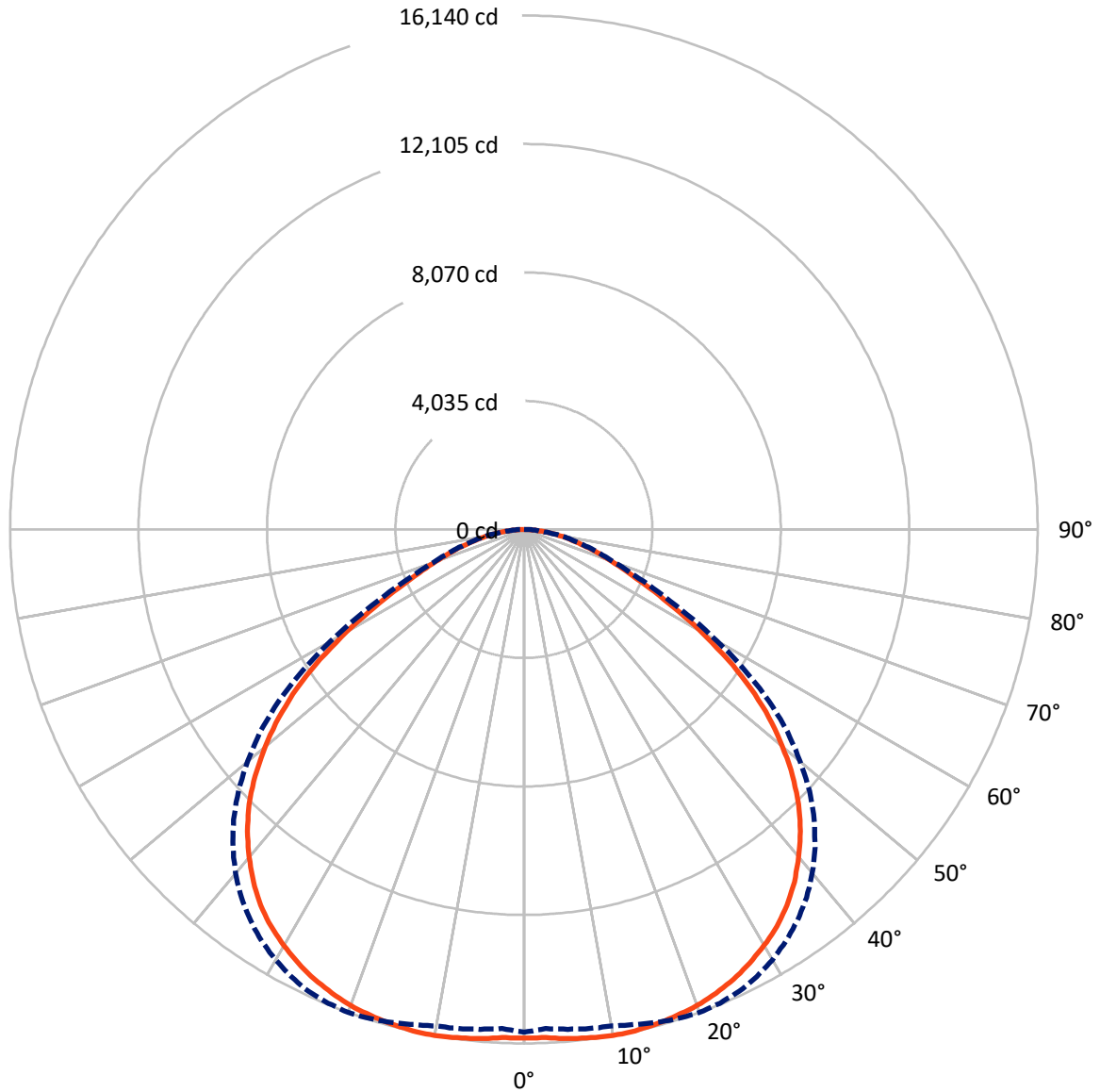
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Lumen Table



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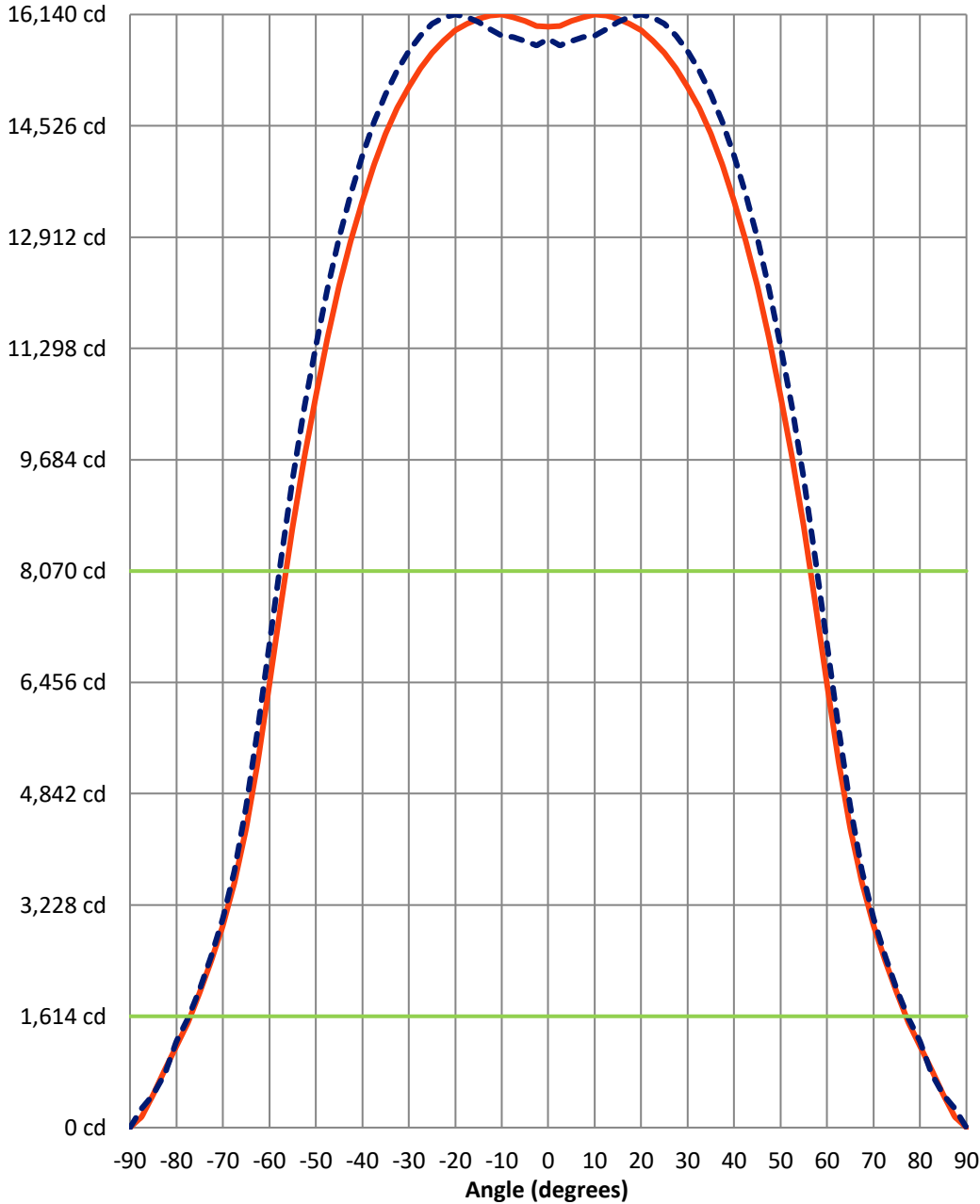
Luminous Intensity Polar Plot



— 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: 30383
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 36424
 Efficiency: 73.6%

Spill:
 Lumens: 13090.2
 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°	130.2	140.7	145.9	151.1	156.3	161.5	166.7	161.5	156.3	156.3	151.1
85°	349.0	359.5	364.7	401.1	437.6	458.5	484.5	479.3	479.3	474.1	468.9
82.5°	698.1	729.4	755.4	791.9	812.7	844.0	864.8	849.2	838.8	817.9	802.3
80°	1239.9	1250.3	1255.5	1260.7	1234.7	1229.5	1219.1	1203.4	1182.6	1156.6	1130.5
77.5°	1578.5	1589.0	1599.4	1589.0	1583.7	1578.5	1562.9	1547.3	1526.4	1505.6	1474.3
75°	2089.1	2089.1	2089.1	2073.5	2063.0	2047.4	2021.4	1995.3	1958.8	1917.2	1870.3
72.5°	2630.9	2625.7	2620.5	2589.2	2563.2	2531.9	2495.4	2464.2	2422.5	2375.6	2313.1
70°	3198.8	3209.2	3214.4	3172.7	3141.4	3099.8	3052.9	2995.6	2933.1	2865.3	2776.8
67.5°	3980.2	3969.8	3959.4	3902.1	3860.4	3803.1	3735.4	3652.0	3558.2	3454.0	3329.0
65°	4949.2	4964.8	4933.6	4876.3	4798.1	4704.4	4600.2	4480.3	4339.7	4183.4	4006.3
62.5°	6121.4	6147.4	6111.0	6038.0	5939.1	5814.0	5668.2	5496.2	5303.5	5084.7	4865.9
60°	7455.1	7449.9	7382.1	7283.2	7152.9	6996.6	6835.1	6647.6	6428.8	6173.5	5907.8
57.5°	8679.4	8668.9	8585.6	8486.6	8356.4	8189.6	8017.7	7819.8	7590.5	7319.6	7012.3
55°	9778.6	9768.2	9684.8	9580.6	9445.2	9278.5	9122.2	8934.6	8710.6	8424.1	8095.9
52.5°	10752.8	10758.0	10685.1	10570.5	10424.6	10263.1	10112.0	9924.5	9710.9	9424.3	9106.6
50°	11648.9	11643.7	11565.5	11461.3	11325.9	11169.6	11018.5	10831.0	10606.9	10330.8	10023.5
47.5°	12482.4	12472.0	12383.5	12268.8	12128.2	11992.7	11852.1	11685.4	11450.9	11174.8	10867.4
45°	13180.5	13159.7	13071.1	12961.7	12826.3	12706.5	12581.4	12456.4	12206.3	11951.1	11659.3
42.5°	13779.7	13774.4	13685.9	13576.5	13441.0	13336.8	13222.2	13065.9	12857.5	12623.1	12336.6
40°	14352.7	14311.0	14222.5	14118.3	13993.3	13904.7	13790.1	13633.8	13430.6	13201.4	12925.3
37.5°	14779.9	14785.1	14691.4	14576.7	14467.3	14384.0	14279.8	14133.9	13956.8	13732.8	13456.7
35°	15186.3	15160.2	15082.1	14983.1	14884.1	14790.3	14680.9	14555.9	14410.0	14201.6	13941.2
32.5°	15452.0	15488.4	15394.7	15290.5	15233.2	15160.2	15045.6	14915.4	14785.1	14576.7	14342.3
30°	15743.7	15712.5	15639.5	15551.0	15509.3	15462.4	15363.4	15238.4	15087.3	14899.7	14680.9
27.5°	15946.9	15931.3	15842.7	15759.3	15738.5	15696.8	15618.7	15509.3	15358.2	15175.9	14972.7
25°	16035.5	16045.9	15962.5	15915.6	15915.6	15889.6	15827.1	15733.3	15582.2	15415.5	15217.5
22.5°	16077.1	16066.7	16009.4	15999.0	16025.0	16004.2	15978.1	15894.8	15759.3	15623.9	15457.2
20°	16103.2	16030.2	15978.1	16019.8	16051.1	16045.9	16025.0	15972.9	15910.4	15795.8	15649.9
17.5°	16045.9	15999.0	15936.5	15999.0	16066.7	16071.9	16051.1	16019.8	16004.2	15931.3	15801.0
15°	15905.2	15868.7	15879.2	15941.7	16019.8	16045.9	16061.5	16098.0	16077.1	16019.8	15905.2
12.5°	15811.4	15764.5	15811.4	15874.0	15915.6	15931.3	16056.3	16124.0	16124.0	16071.9	15999.0
10°	15785.4	15691.6	15754.1	15811.4	15832.3	15926.1	16030.2	16103.2	16139.6	16098.0	16004.2
7.5°	15733.3	15670.8	15696.8	15722.9	15842.7	15910.4	15967.7	16045.9	16098.0	16092.8	16009.4
5°	15707.2	15629.1	15639.5	15748.9	15832.3	15879.2	15900.0	15967.7	16045.9	16061.5	15999.0
2.5°	15639.5	15603.0	15681.2	15691.6	15754.1	15790.6	15811.4	15874.0	15972.9	16009.4	15983.4
0°	15603.0	15551.0	15498.9	15540.5	15644.7	15722.9	15754.1	15847.9	15962.5	15999.0	15941.7



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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°	145.9	140.7	135.5	130.2	135.5	135.5	135.5	130.2	135.5	130.2	130.2
85°	453.2	432.4	416.8	395.9	375.1	359.5	338.6	317.8	312.6	307.4	297.0
82.5°	781.5	755.4	729.4	698.1	666.8	630.4	593.9	552.2	541.8	531.4	515.8
80°	1099.2	1062.8	1026.3	989.8	958.6	922.1	880.4	833.6	802.3	776.2	745.0
77.5°	1432.7	1380.6	1328.5	1266.0	1229.5	1193.0	1151.3	1104.5	1057.6	1015.9	969.0
75°	1813.0	1755.7	1703.6	1641.1	1573.3	1505.6	1437.9	1375.4	1307.6	1245.1	1182.6
72.5°	2235.0	2151.6	2068.3	1990.1	1906.7	1823.4	1734.8	1651.5	1568.1	1484.8	1396.2
70°	2677.8	2573.6	2469.4	2365.2	2255.8	2146.4	2042.2	1938.0	1833.8	1724.4	1625.4
67.5°	3198.8	3078.9	2943.5	2797.6	2636.1	2495.4	2360.0	2235.0	2109.9	1984.9	1859.9
65°	3850.0	3683.3	3500.9	3302.9	3115.4	2927.9	2729.9	2542.3	2396.5	2250.6	2109.9
62.5°	4652.3	4417.8	4162.5	3907.3	3678.0	3433.2	3204.0	2959.1	2729.9	2521.5	2349.6
60°	5610.8	5293.1	4980.5	4652.3	4334.5	4001.0	3709.3	3407.1	3120.6	2865.3	2615.3
57.5°	6668.4	6298.5	5923.4	5522.3	5089.9	4699.1	4303.2	3907.3	3568.6	3230.0	2948.7
55°	7741.6	7350.9	6928.9	6475.7	6001.6	5501.4	4964.8	4522.0	4058.4	3662.4	3297.7
52.5°	8762.7	8356.4	7918.7	7502.0	6934.1	6361.0	5772.3	5188.9	4647.1	4141.7	3698.9
50°	9674.4	9278.5	8856.5	8372.0	7845.8	7236.3	6579.9	5923.4	5282.6	4688.7	4136.5
47.5°	10508.0	10122.4	9700.5	9216.0	8736.7	8059.4	7397.8	6673.6	5959.9	5277.4	4631.4
45°	11289.4	10898.7	10461.1	9997.4	9445.2	8840.9	8158.4	7429.0	6663.2	5897.4	5152.4
42.5°	11997.9	11607.2	11164.4	10685.1	10138.1	9539.0	8877.3	8142.8	7371.7	6538.2	5720.2
40°	12617.9	12237.6	11810.4	11310.3	10799.7	10169.3	9518.1	8820.0	8022.9	7184.2	6282.9
37.5°	13159.7	12805.4	12383.5	11888.5	11346.7	10784.1	10112.0	9413.9	8695.0	7783.3	6861.2
35°	13639.0	13310.8	12878.4	12409.5	11878.1	11284.2	10653.8	9971.4	9195.1	8340.7	7444.7
32.5°	14055.8	13722.3	13326.4	12857.5	12341.8	11784.3	11138.3	10450.7	9716.1	8846.1	7871.9
30°	14410.0	14087.0	13711.9	13269.1	12774.2	12222.0	11591.6	10898.7	10148.5	9283.7	8319.9
27.5°	14717.4	14410.0	14045.3	13633.8	13159.7	12628.3	11992.7	11294.6	10528.8	9695.3	8731.5
25°	14983.1	14686.1	14347.5	13956.8	13487.9	12966.9	12367.8	11638.5	10872.6	10033.9	9080.5
22.5°	15222.7	14936.2	14597.6	14217.3	13790.1	13269.1	12664.8	11940.6	11164.4	10336.0	9398.3
20°	15436.3	15170.6	14837.2	14446.5	14019.3	13493.1	12894.0	12206.3	11424.9	10612.2	9684.8
17.5°	15608.3	15373.8	15040.4	14628.8	14201.6	13691.1	13107.6	12477.2	11648.9	10846.6	9924.5
15°	15728.1	15498.9	15196.7	14779.9	14363.1	13857.8	13274.3	12623.1	11852.1	11034.1	10122.4
12.5°	15811.4	15566.6	15285.3	14899.7	14483.0	13982.8	13415.0	12774.2	12024.0	11200.9	10294.4
10°	15832.3	15608.3	15326.9	14983.1	14576.7	14092.2	13534.8	12899.2	12164.6	11331.1	10435.0
7.5°	15842.7	15629.1	15373.8	15045.6	14644.5	14175.6	13623.4	12998.2	12268.8	11440.5	10539.2
5°	15837.5	15634.3	15405.1	15087.3	14686.1	14222.5	13680.7	13065.9	12341.8	11513.4	10617.4
2.5°	15821.9	15639.5	15425.9	15118.5	14733.0	14274.6	13738.0	13144.1	12419.9	11576.0	10679.9
0°	15863.5	15707.2	15436.3	15108.1	14743.4	14274.6	13732.8	13154.5	12430.3	11570.7	10674.7



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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°	130.2	125.0	125.0	119.8	114.6	109.4	99.0	93.8	83.4	67.7	52.1
85°	281.3	265.7	250.1	239.6	229.2	218.8	203.2	187.5	166.7	135.5	104.2
82.5°	494.9	463.7	432.4	395.9	364.7	333.4	307.4	281.3	250.1	203.2	156.3
80°	708.5	661.6	614.7	562.6	515.8	463.7	416.8	375.1	333.4	270.9	208.4
77.5°	922.1	859.6	791.9	729.4	661.6	593.9	526.2	468.9	406.4	333.4	260.5
75°	1120.1	1047.1	984.6	896.1	812.7	724.1	635.6	557.4	479.3	390.7	312.6
72.5°	1318.1	1224.3	1135.7	1052.4	958.6	849.2	750.2	651.2	552.2	448.0	354.3
70°	1516.0	1401.4	1292.0	1193.0	1088.8	979.4	859.6	745.0	625.2	500.1	390.7
67.5°	1719.2	1589.0	1463.9	1338.9	1219.1	1094.0	969.0	838.8	698.1	552.2	432.4
65°	1943.2	1781.7	1630.6	1490.0	1349.3	1213.9	1073.2	932.5	776.2	609.5	468.9
62.5°	2167.2	1990.1	1813.0	1635.8	1479.6	1328.5	1177.4	1021.1	849.2	672.1	505.3
60°	2406.9	2203.7	2000.5	1802.6	1609.8	1443.1	1276.4	1109.7	927.3	729.4	541.8
57.5°	2672.6	2427.7	2198.5	1974.5	1755.7	1557.7	1375.4	1198.2	995.1	786.7	583.5
55°	2974.7	2672.6	2401.7	2151.6	1912.0	1672.3	1474.3	1292.0	1073.2	844.0	630.4
52.5°	3292.5	2943.5	2615.3	2333.9	2078.7	1807.8	1568.1	1364.9	1151.3	901.3	672.1
50°	3662.4	3219.6	2854.9	2511.1	2224.5	1943.2	1667.1	1448.3	1229.5	969.0	713.7
47.5°	4042.7	3553.0	3094.6	2719.5	2380.8	2073.5	1781.7	1521.2	1302.4	1031.5	755.4
45°	4485.6	3870.8	3365.5	2922.6	2531.9	2208.9	1896.3	1599.4	1364.9	1094.0	797.1
42.5°	4912.7	4245.9	3646.8	3146.7	2703.8	2339.2	2000.5	1682.7	1427.5	1156.6	833.6
40°	5418.1	4621.0	3917.7	3360.3	2875.8	2464.2	2104.7	1771.3	1484.8	1213.9	870.0
37.5°	5902.6	5001.3	4245.9	3594.7	3042.5	2589.2	2208.9	1854.7	1536.9	1271.2	916.9
35°	6381.9	5423.3	4558.5	3813.5	3214.4	2729.9	2313.1	1932.8	1589.0	1318.1	958.6
32.5°	6840.3	5819.2	4876.3	4058.4	3401.9	2860.1	2406.9	2005.7	1641.1	1359.7	1000.3
30°	7267.5	6194.3	5188.9	4308.4	3573.9	2979.9	2495.4	2078.7	1703.6	1396.2	1041.9
27.5°	7658.3	6559.0	5501.4	4542.9	3735.4	3089.4	2589.2	2146.4	1755.7	1432.7	1078.4
25°	8012.5	6887.2	5788.0	4756.5	3881.2	3209.2	2677.8	2214.1	1802.6	1463.9	1109.7
22.5°	8345.9	7189.4	6048.5	4970.1	4058.4	3329.0	2761.1	2276.6	1849.4	1495.2	1140.9
20°	8637.7	7465.5	6298.5	5183.7	4214.6	3438.4	2834.1	2333.9	1891.1	1516.0	1172.2
17.5°	8872.1	7710.4	6522.5	5371.2	4350.1	3532.2	2896.6	2386.0	1927.6	1542.1	1193.0
15°	9080.5	7918.7	6710.1	5532.7	4469.9	3610.3	2953.9	2427.7	1958.8	1557.7	1219.1
12.5°	9257.6	8095.9	6871.6	5673.4	4574.1	3678.0	3000.8	2459.0	1984.9	1573.3	1234.7
10°	9403.5	8236.5	7007.0	5782.8	4657.5	3730.1	3037.3	2490.2	2005.7	1589.0	1250.3
7.5°	9512.9	8340.7	7106.0	5876.5	4725.2	3766.6	3068.5	2511.1	2026.6	1599.4	1276.4
5°	9596.3	8429.3	7184.2	5939.1	4777.3	3818.7	3105.0	2537.1	2047.4	1609.8	1276.4
2.5°	9658.8	8502.2	7246.7	5991.2	4819.0	3808.3	3105.0	2531.9	2047.4	1609.8	1271.2
0°	9648.4	8507.4	7241.5	5991.2	4819.0	3797.9	3105.0	2526.7	2047.4	1609.8	1271.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	36.5	26.0	10.4	0.0
85°	78.1	52.1	26.0	0.0
82.5°	114.6	72.9	36.5	0.0
80°	151.1	99.0	46.9	0.0
77.5°	192.8	125.0	62.5	0.0
75°	229.2	145.9	72.9	0.0
72.5°	265.7	171.9	83.4	0.0
70°	297.0	192.8	93.8	0.0
67.5°	328.2	218.8	109.4	0.0
65°	354.3	239.6	119.8	0.0
62.5°	375.1	265.7	130.2	0.0
60°	401.1	286.5	140.7	0.0
57.5°	422.0	302.2	151.1	0.0
55°	442.8	312.6	161.5	0.0
52.5°	463.7	328.2	171.9	0.0
50°	484.5	343.8	182.3	0.0
47.5°	505.3	354.3	187.5	0.0
45°	536.6	369.9	198.0	0.0
42.5°	562.6	380.3	208.4	0.0
40°	588.7	390.7	213.6	0.0
37.5°	614.7	401.1	224.0	0.0
35°	640.8	411.6	229.2	0.0
32.5°	661.6	422.0	234.4	0.0
30°	682.5	432.4	239.6	0.0
27.5°	703.3	437.6	244.9	0.0
25°	718.9	448.0	250.1	0.0
22.5°	734.6	453.2	255.3	0.0
20°	745.0	458.5	260.5	0.0
17.5°	760.6	463.7	265.7	0.0
15°	765.8	468.9	276.1	0.0
12.5°	776.2	474.1	276.1	0.0
10°	781.5	479.3	276.1	0.0
7.5°	791.9	479.3	276.1	0.0
5°	786.7	479.3	276.1	0.0
2.5°	786.7	479.3	276.1	0.0
0°	781.5	479.3	276.1	0.0

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