

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: P628222

Luminaire Tested: **IFLD-S-SA6E-730-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628222
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-730-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	49588.1 lumens	Max Intensity:	16163.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	106.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

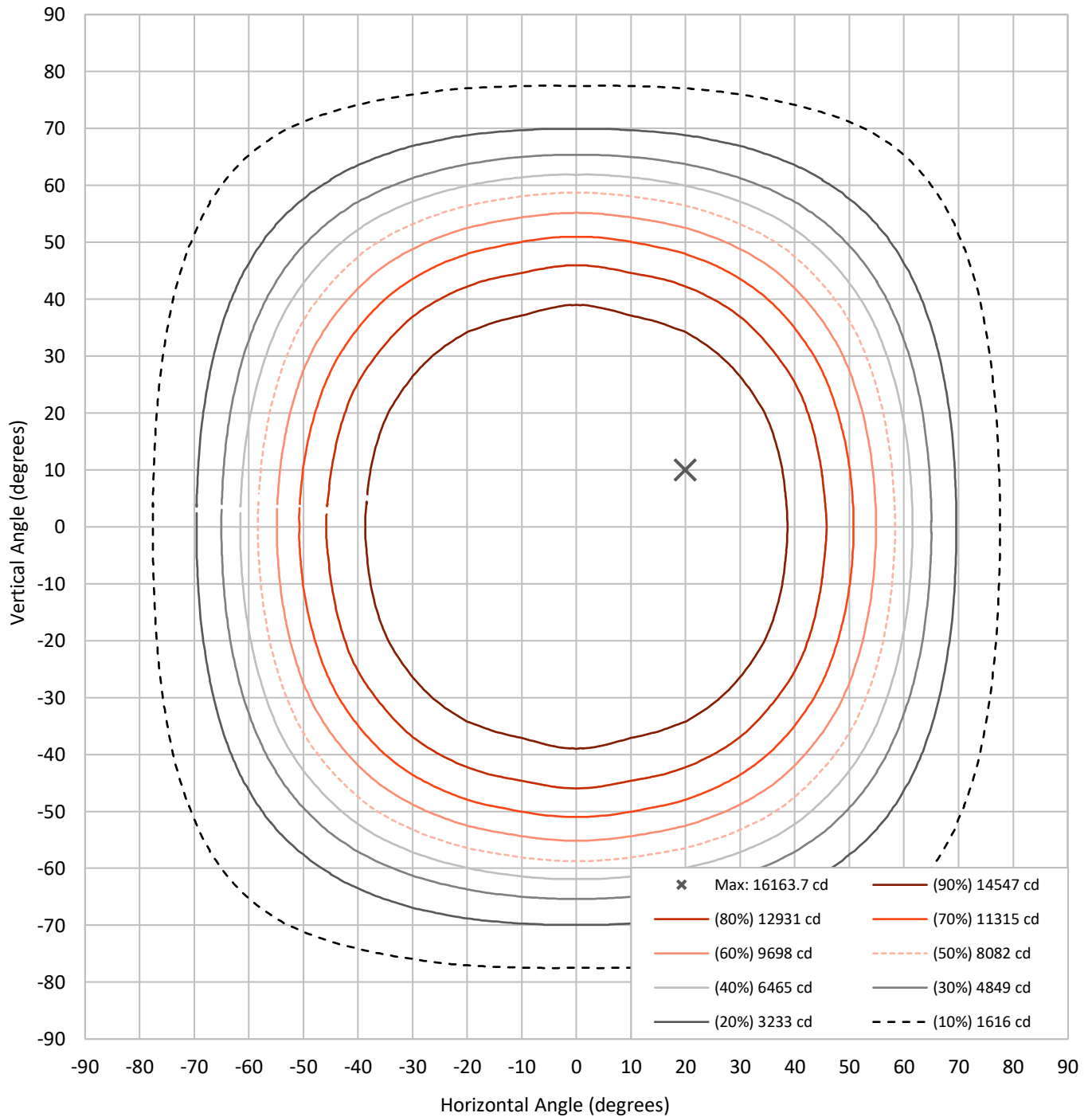
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	30428.3 lumens	Field Lumens:	36478.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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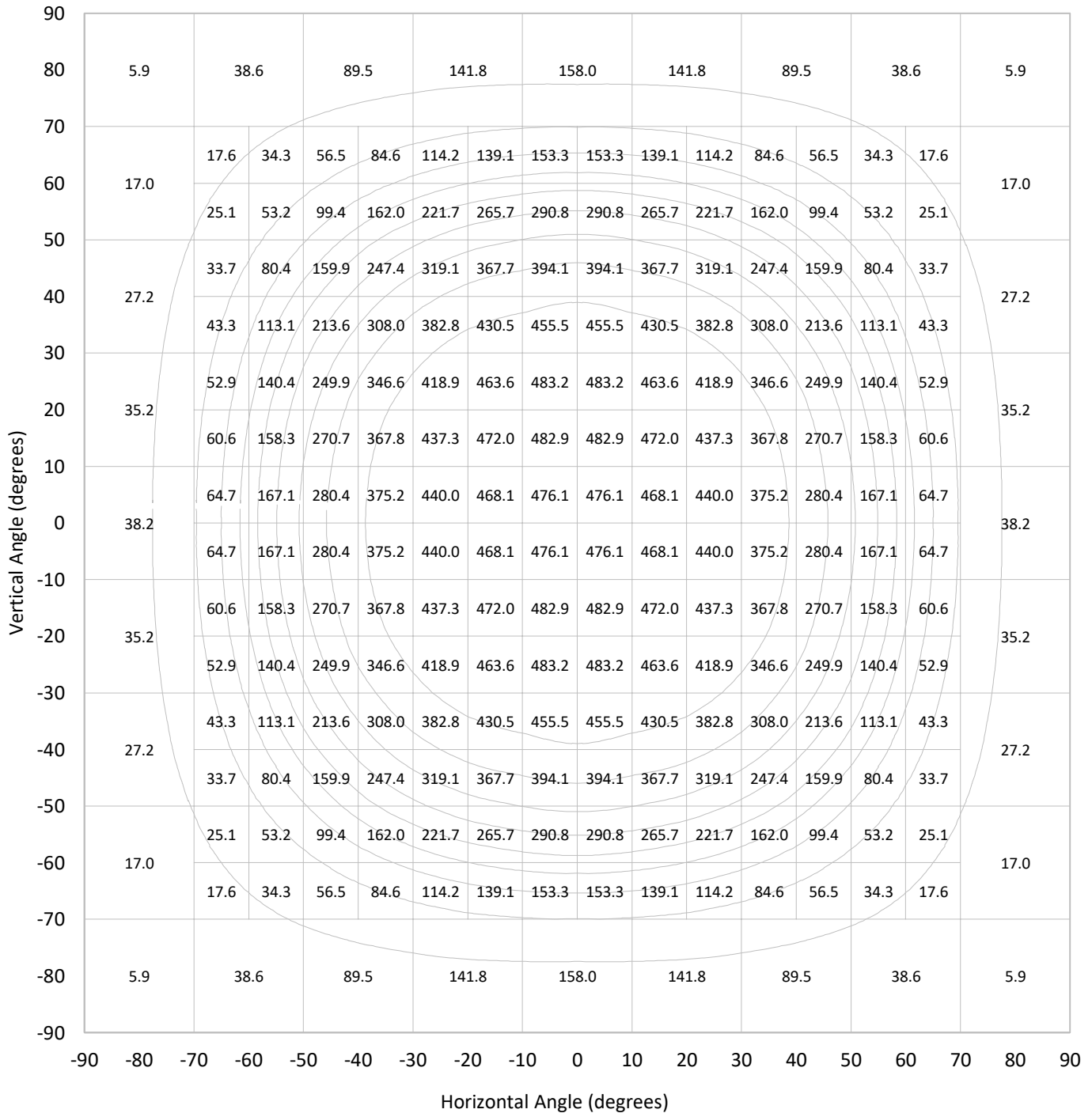
Iso-Candela Plot





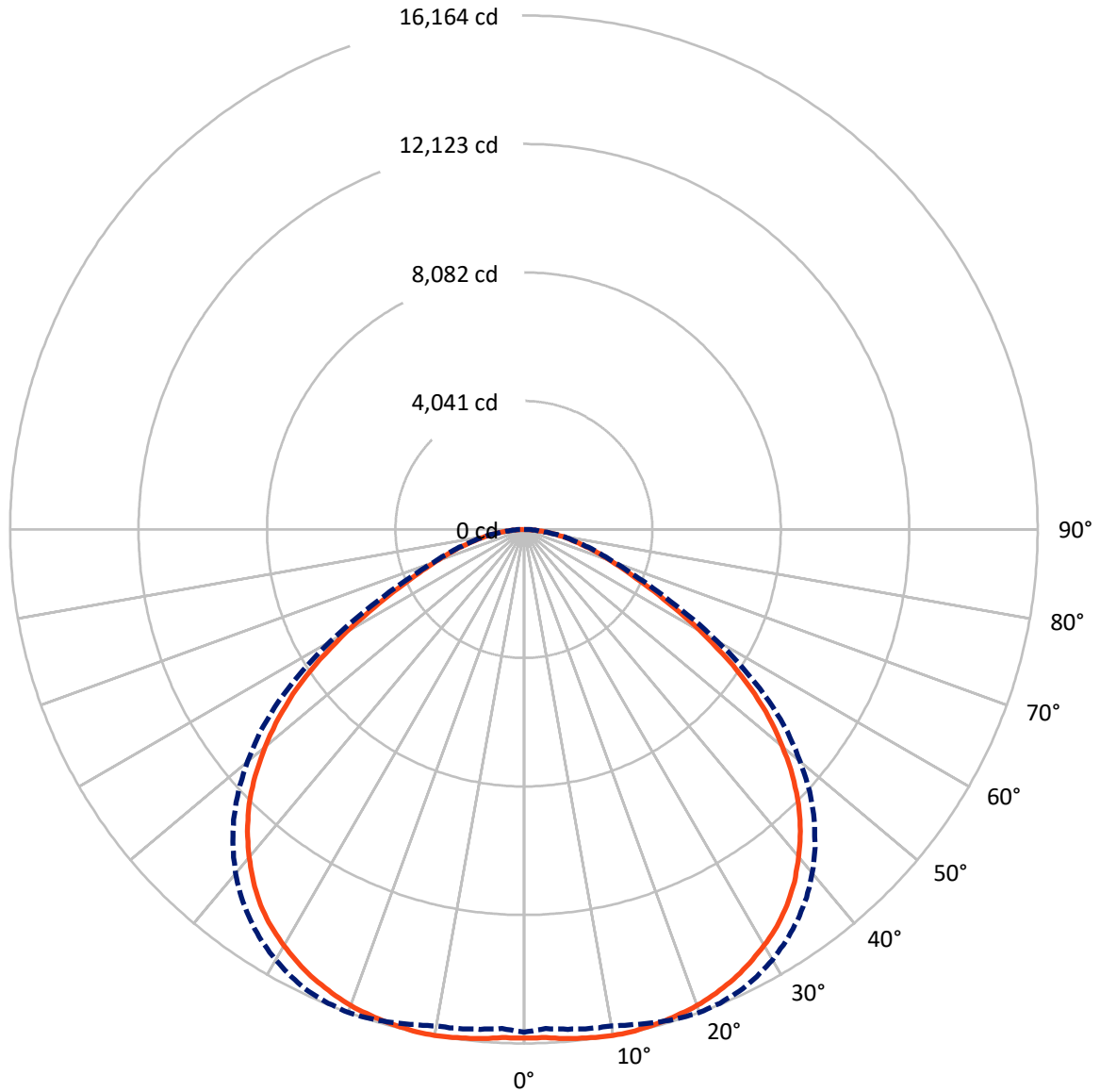
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Lumen Table



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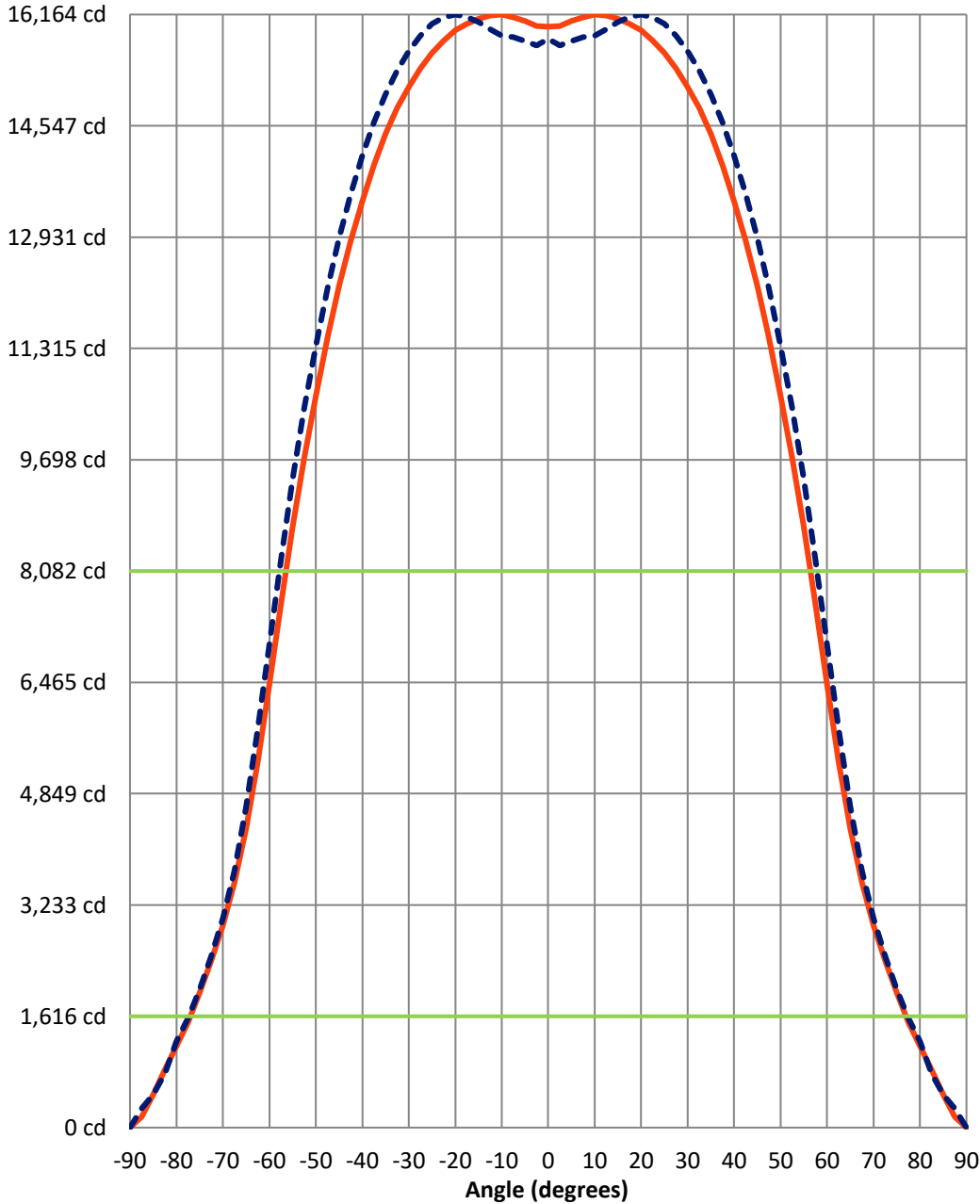
Luminous Intensity Polar Plot



— 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: 30428.3
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 36478.3
Efficiency: 73.6%

Spill:
Lumens: 13109.8
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°	130.4	140.9	146.1	151.3	156.5	161.7	167.0	161.7	156.5	156.5	151.3
85°	349.6	360.0	365.2	401.7	438.3	459.1	485.2	480.0	480.0	474.8	469.6
82.5°	699.1	730.4	756.5	793.1	813.9	845.2	866.1	850.4	840.0	819.1	803.5
80°	1241.8	1252.2	1257.4	1262.6	1236.5	1231.3	1220.9	1205.2	1184.4	1158.3	1132.2
77.5°	1580.9	1591.3	1601.8	1591.3	1586.1	1580.9	1565.2	1549.6	1528.7	1507.8	1476.5
75°	2092.2	2092.2	2092.2	2076.6	2066.1	2050.5	2024.4	1998.3	1961.8	1920.0	1873.1
72.5°	2634.8	2629.6	2624.4	2593.1	2567.0	2535.7	2499.2	2467.9	2426.1	2379.2	2316.6
70°	3203.5	3214.0	3219.2	3177.4	3146.1	3104.4	3057.4	3000.0	2937.4	2869.6	2780.9
67.5°	3986.1	3975.7	3965.3	3907.9	3866.1	3808.8	3740.9	3657.4	3563.5	3459.2	3334.0
65°	4956.6	4972.2	4940.9	4883.6	4805.3	4711.4	4607.0	4487.0	4346.2	4189.6	4012.2
62.5°	6130.5	6156.6	6120.1	6047.0	5947.9	5822.7	5676.6	5504.4	5311.4	5092.3	4873.1
60°	7466.2	7461.0	7393.2	7294.0	7163.6	7007.1	6845.3	6657.5	6438.4	6182.7	5916.6
57.5°	8692.3	8681.9	8598.4	8499.3	8368.8	8201.9	8029.7	7831.4	7601.9	7330.5	7022.7
55°	9793.2	9782.8	9699.3	9594.9	9459.3	9292.3	9135.8	8948.0	8723.6	8436.6	8107.9
52.5°	10768.9	10774.1	10701.0	10586.2	10440.2	10278.4	10127.1	9939.3	9725.4	9438.4	9120.1
50°	11666.3	11661.0	11582.8	11478.4	11342.8	11186.3	11034.9	10847.1	10622.8	10346.2	10038.4
47.5°	12501.1	12490.6	12401.9	12287.1	12146.3	12010.6	11869.7	11702.8	11468.0	11191.5	10883.6
45°	13200.2	13179.3	13090.6	12981.1	12845.4	12725.4	12600.2	12475.0	12224.5	11968.9	11676.7
42.5°	13800.2	13795.0	13706.3	13596.7	13461.1	13356.7	13241.9	13085.4	12876.7	12641.9	12355.0
40°	14374.1	14332.4	14243.7	14139.3	14014.1	13925.4	13810.6	13654.1	13450.6	13221.1	12944.5
37.5°	14802.0	14807.2	14713.3	14598.5	14488.9	14405.4	14301.1	14155.0	13977.6	13753.2	13476.7
35°	15208.9	15182.8	15104.6	15005.4	14906.3	14812.4	14702.8	14577.6	14431.5	14222.8	13961.9
32.5°	15475.0	15511.5	15417.6	15313.3	15255.9	15182.8	15068.1	14937.6	14807.2	14598.5	14363.7
30°	15767.2	15735.9	15662.8	15574.1	15532.4	15485.4	15386.3	15261.1	15109.8	14922.0	14702.8
27.5°	15970.7	15955.0	15866.3	15782.8	15762.0	15720.2	15642.0	15532.4	15381.1	15198.5	14995.0
25°	16059.4	16069.8	15986.3	15939.4	15939.4	15913.3	15850.7	15756.8	15605.5	15438.5	15240.2
22.5°	16101.1	16090.7	16033.3	16022.8	16048.9	16028.1	16002.0	15918.5	15782.8	15647.2	15480.2
20°	16127.2	16054.2	16002.0	16043.7	16075.0	16069.8	16048.9	15996.8	15934.2	15819.4	15673.3
17.5°	16069.8	16022.8	15960.2	16022.8	16090.7	16095.9	16075.0	16043.7	16028.1	15955.0	15824.6
15°	15928.9	15892.4	15902.8	15965.5	16043.7	16069.8	16085.5	16122.0	16101.1	16043.7	15928.9
12.5°	15835.0	15788.1	15835.0	15897.6	15939.4	15955.0	16080.2	16148.1	16148.1	16095.9	16022.8
10°	15808.9	15715.0	15777.6	15835.0	15855.9	15949.8	16054.2	16127.2	16163.7	16122.0	16028.1
7.5°	15756.8	15694.1	15720.2	15746.3	15866.3	15934.2	15991.5	16069.8	16122.0	16116.8	16033.3
5°	15730.7	15652.4	15662.8	15772.4	15855.9	15902.8	15923.7	15991.5	16069.8	16085.5	16022.8
2.5°	15662.8	15626.3	15704.6	15715.0	15777.6	15814.1	15835.0	15897.6	15996.8	16033.3	16007.2
0°	15626.3	15574.1	15522.0	15563.7	15668.1	15746.3	15777.6	15871.5	15986.3	16022.8	15965.5



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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°	146.1	140.9	135.7	130.4	135.7	135.7	135.7	130.4	135.7	130.4	130.4
85°	453.9	433.0	417.4	396.5	375.7	360.0	339.1	318.3	313.0	307.8	297.4
82.5°	782.6	756.5	730.4	699.1	667.8	631.3	594.8	553.1	542.6	532.2	516.5
80°	1100.9	1064.4	1027.8	991.3	960.0	923.5	881.8	834.8	803.5	777.4	746.1
77.5°	1434.8	1382.6	1330.5	1267.8	1231.3	1194.8	1153.1	1106.1	1059.1	1017.4	970.4
75°	1815.7	1758.3	1706.1	1643.5	1575.7	1507.8	1440.0	1377.4	1309.6	1247.0	1184.4
72.5°	2238.3	2154.8	2071.3	1993.1	1909.6	1826.1	1737.4	1653.9	1570.5	1487.0	1398.3
70°	2681.8	2577.4	2473.1	2368.7	2259.2	2149.6	2045.2	1940.9	1836.5	1727.0	1627.9
67.5°	3203.5	3083.5	2947.9	2801.8	2640.0	2499.2	2363.5	2238.3	2113.1	1987.9	1862.6
65°	3855.7	3688.8	3506.1	3307.9	3120.0	2932.2	2734.0	2546.1	2400.0	2253.9	2113.1
62.5°	4659.2	4424.4	4168.8	3913.1	3683.5	3438.3	3208.7	2963.5	2734.0	2525.3	2353.1
60°	5619.2	5300.9	4987.9	4659.2	4340.9	4007.0	3714.8	3412.2	3125.3	2869.6	2619.2
57.5°	6678.4	6307.9	5932.3	5530.5	5097.5	4706.2	4309.6	3913.1	3574.0	3234.8	2953.1
55°	7753.2	7361.8	6939.2	6485.3	6010.5	5509.6	4972.2	4528.8	4064.4	3667.9	3302.7
52.5°	8775.8	8368.8	7930.6	7513.2	6944.5	6370.5	5781.0	5196.6	4654.0	4147.9	3704.4
50°	9688.8	9292.3	8869.7	8384.5	7857.5	7247.1	6589.7	5932.3	5290.5	4695.7	4142.7
47.5°	10523.6	10137.5	9714.9	9229.7	8749.7	8071.4	7408.8	6683.6	5968.8	5285.3	4638.3
45°	11306.3	10914.9	10476.7	10012.3	9459.3	8854.0	8170.6	7440.1	6673.1	5906.2	5160.1
42.5°	12015.8	11624.5	11181.0	10701.0	10153.2	9553.2	8890.6	8154.9	7382.7	6547.9	5728.8
40°	12636.7	12255.8	11828.0	11327.1	10815.8	10184.5	9532.3	8833.2	8034.9	7194.9	6292.3
37.5°	13179.3	12824.5	12401.9	11906.3	11363.6	10800.2	10127.1	9428.0	8708.0	7794.9	6871.4
35°	13659.3	13330.6	12897.6	12428.0	11895.8	11301.0	10669.7	9986.2	9208.8	8353.2	7455.8
32.5°	14076.7	13742.8	13346.3	12876.7	12360.2	11801.9	11154.9	10466.2	9730.6	8859.3	7883.6
30°	14431.5	14108.0	13732.4	13288.9	12793.2	12240.2	11608.9	10914.9	10163.6	9297.5	8332.3
27.5°	14739.4	14431.5	14066.3	13654.1	13179.3	12647.1	12010.6	11311.5	10544.5	9709.7	8744.5
25°	15005.4	14708.0	14368.9	13977.6	13508.0	12986.3	12386.3	11655.8	10888.9	10048.8	9094.0
22.5°	15245.4	14958.5	14619.3	14238.5	13810.6	13288.9	12683.7	11958.4	11181.0	10351.5	9412.3
20°	15459.4	15193.3	14859.4	14468.0	14040.2	13513.2	12913.2	12224.5	11441.9	10628.0	9699.3
17.5°	15631.5	15396.8	15062.8	14650.7	14222.8	13711.5	13127.2	12495.8	11666.3	10862.8	9939.3
15°	15751.5	15522.0	15219.4	14802.0	14384.6	13878.5	13294.1	12641.9	11869.7	11050.6	10137.5
12.5°	15835.0	15589.8	15308.1	14922.0	14504.6	14003.7	13435.0	12793.2	12041.9	11217.6	10309.7
10°	15855.9	15631.5	15349.8	15005.4	14598.5	14113.3	13555.0	12918.5	12182.8	11348.0	10450.6
7.5°	15866.3	15652.4	15396.8	15068.1	14666.3	14196.7	13643.7	13017.6	12287.1	11457.6	10554.9
5°	15861.1	15657.6	15428.1	15109.8	14708.0	14243.7	13701.1	13085.4	12360.2	11530.6	10633.2
2.5°	15845.5	15662.8	15448.9	15141.1	14755.0	14295.9	13758.5	13163.7	12438.4	11593.2	10695.8
0°	15887.2	15730.7	15459.4	15130.7	14765.4	14295.9	13753.2	13174.1	12448.9	11588.0	10690.6



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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°	130.4	125.2	125.2	120.0	114.8	109.6	99.1	93.9	83.5	67.8	52.2
85°	281.7	266.1	250.4	240.0	229.6	219.1	203.5	187.8	167.0	135.7	104.3
82.5°	495.7	464.4	433.0	396.5	365.2	333.9	307.8	281.7	250.4	203.5	156.5
80°	709.6	662.6	615.7	563.5	516.5	464.4	417.4	375.7	333.9	271.3	208.7
77.5°	923.5	860.9	793.1	730.4	662.6	594.8	527.0	469.6	407.0	333.9	260.9
75°	1121.8	1048.7	986.1	897.4	813.9	725.2	636.5	558.3	480.0	391.3	313.0
72.5°	1320.0	1226.1	1137.4	1053.9	960.0	850.4	751.3	652.2	553.1	448.7	354.8
70°	1518.3	1403.5	1293.9	1194.8	1090.5	980.9	860.9	746.1	626.1	500.9	391.3
67.5°	1721.8	1591.3	1466.1	1340.9	1220.9	1095.7	970.4	840.0	699.1	553.1	433.0
65°	1946.1	1784.4	1633.1	1492.2	1351.3	1215.7	1074.8	933.9	777.4	610.4	469.6
62.5°	2170.5	1993.1	1815.7	1638.3	1481.8	1330.5	1179.1	1022.6	850.4	673.1	506.1
60°	2410.5	2207.0	2003.5	1805.2	1612.2	1445.2	1278.3	1111.3	928.7	730.4	542.6
57.5°	2676.6	2431.3	2201.8	1977.4	1758.3	1560.0	1377.4	1200.0	996.5	787.8	584.4
55°	2979.2	2676.6	2405.3	2154.8	1914.8	1674.8	1476.5	1293.9	1074.8	845.2	631.3
52.5°	3297.4	2947.9	2619.2	2337.4	2081.8	1810.5	1570.5	1367.0	1153.1	902.6	673.1
50°	3667.9	3224.4	2859.2	2514.8	2227.9	1946.1	1669.6	1450.5	1231.3	970.4	714.8
47.5°	4048.8	3558.3	3099.2	2723.5	2384.4	2076.6	1784.4	1523.5	1304.4	1033.1	756.5
45°	4492.2	3876.6	3370.5	2927.0	2535.7	2212.2	1899.2	1601.8	1367.0	1095.7	798.3
42.5°	4920.1	4252.2	3652.2	3151.4	2707.9	2342.6	2003.5	1685.2	1429.6	1158.3	834.8
40°	5426.2	4627.9	3923.5	3365.3	2880.0	2467.9	2107.9	1773.9	1487.0	1215.7	871.3
37.5°	5911.4	5008.8	4252.2	3600.1	3047.0	2593.1	2212.2	1857.4	1539.2	1273.1	918.3
35°	6391.4	5431.4	4565.3	3819.2	3219.2	2734.0	2316.6	1935.7	1591.3	1320.0	960.0
32.5°	6850.5	5827.9	4883.6	4064.4	3407.0	2864.4	2410.5	2008.7	1643.5	1361.8	1001.8
30°	7278.4	6203.6	5196.6	4314.8	3579.2	2984.4	2499.2	2081.8	1706.1	1398.3	1043.5
27.5°	7669.7	6568.8	5509.6	4549.6	3740.9	3094.0	2593.1	2149.6	1758.3	1434.8	1080.0
25°	8024.5	6897.5	5796.6	4763.5	3887.0	3214.0	2681.8	2217.4	1805.2	1466.1	1111.3
22.5°	8358.4	7200.1	6057.5	4977.5	4064.4	3334.0	2765.3	2280.0	1852.2	1497.4	1142.6
20°	8650.6	7476.6	6307.9	5191.4	4220.9	3443.5	2838.3	2337.4	1893.9	1518.3	1173.9
17.5°	8885.4	7721.9	6532.3	5379.2	4356.6	3537.4	2900.9	2389.6	1930.5	1544.4	1194.8
15°	9094.0	7930.6	6720.1	5541.0	4476.6	3615.7	2958.3	2431.3	1961.8	1560.0	1220.9
12.5°	9271.4	8107.9	6881.8	5681.8	4580.9	3683.5	3005.3	2462.6	1987.9	1575.7	1236.5
10°	9417.5	8248.8	7017.5	5791.4	4664.4	3735.7	3041.8	2494.0	2008.7	1591.3	1252.2
7.5°	9527.1	8353.2	7116.6	5885.3	4732.2	3772.2	3073.1	2514.8	2029.6	1601.8	1278.3
5°	9610.6	8441.9	7194.9	5947.9	4784.4	3824.4	3109.6	2540.9	2050.5	1612.2	1278.3
2.5°	9673.2	8514.9	7257.5	6000.1	4826.2	3814.0	3109.6	2535.7	2050.5	1612.2	1273.1
0°	9662.8	8520.1	7252.3	6000.1	4826.2	3803.5	3109.6	2530.5	2050.5	1612.2	1273.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	36.5	26.1	10.4	0.0
85°	78.3	52.2	26.1	0.0
82.5°	114.8	73.0	36.5	0.0
80°	151.3	99.1	47.0	0.0
77.5°	193.0	125.2	62.6	0.0
75°	229.6	146.1	73.0	0.0
72.5°	266.1	172.2	83.5	0.0
70°	297.4	193.0	93.9	0.0
67.5°	328.7	219.1	109.6	0.0
65°	354.8	240.0	120.0	0.0
62.5°	375.7	266.1	130.4	0.0
60°	401.7	287.0	140.9	0.0
57.5°	422.6	302.6	151.3	0.0
55°	443.5	313.0	161.7	0.0
52.5°	464.4	328.7	172.2	0.0
50°	485.2	344.4	182.6	0.0
47.5°	506.1	354.8	187.8	0.0
45°	537.4	370.4	198.3	0.0
42.5°	563.5	380.9	208.7	0.0
40°	589.6	391.3	213.9	0.0
37.5°	615.7	401.7	224.4	0.0
35°	641.7	412.2	229.6	0.0
32.5°	662.6	422.6	234.8	0.0
30°	683.5	433.0	240.0	0.0
27.5°	704.4	438.3	245.2	0.0
25°	720.0	448.7	250.4	0.0
22.5°	735.7	453.9	255.7	0.0
20°	746.1	459.1	260.9	0.0
17.5°	761.8	464.4	266.1	0.0
15°	767.0	469.6	276.5	0.0
12.5°	777.4	474.8	276.5	0.0
10°	782.6	480.0	276.5	0.0
7.5°	793.1	480.0	276.5	0.0
5°	787.8	480.0	276.5	0.0
2.5°	787.8	480.0	276.5	0.0
0°	782.6	480.0	276.5	0.0

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