

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: P624008

Luminaire Tested: **IFLD-L-SA7D-760-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-760-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

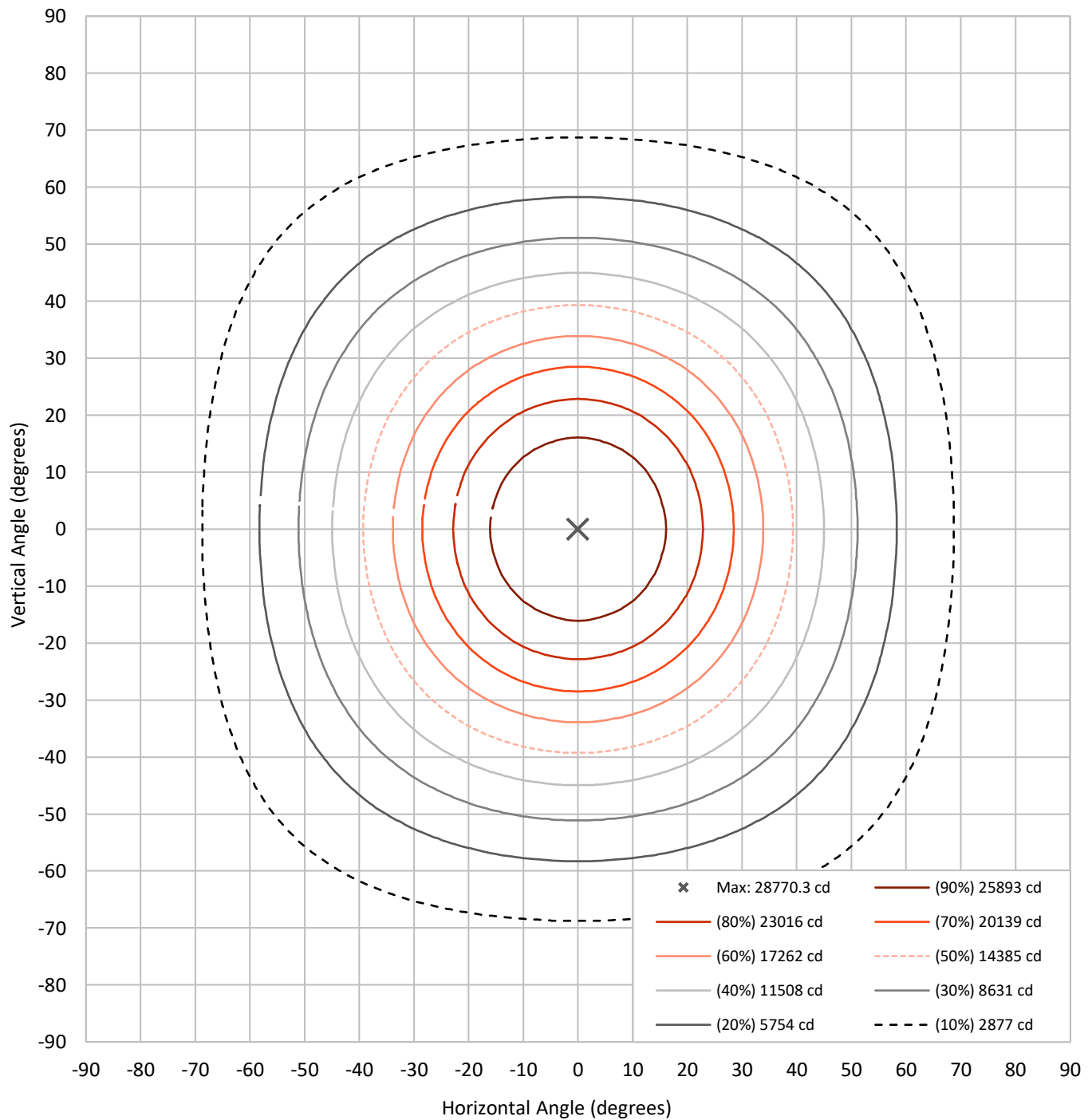
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	51801.6 lumens	Max Intensity:	28770.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	122.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	22414.1 lumens	Field Lumens:	36702.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
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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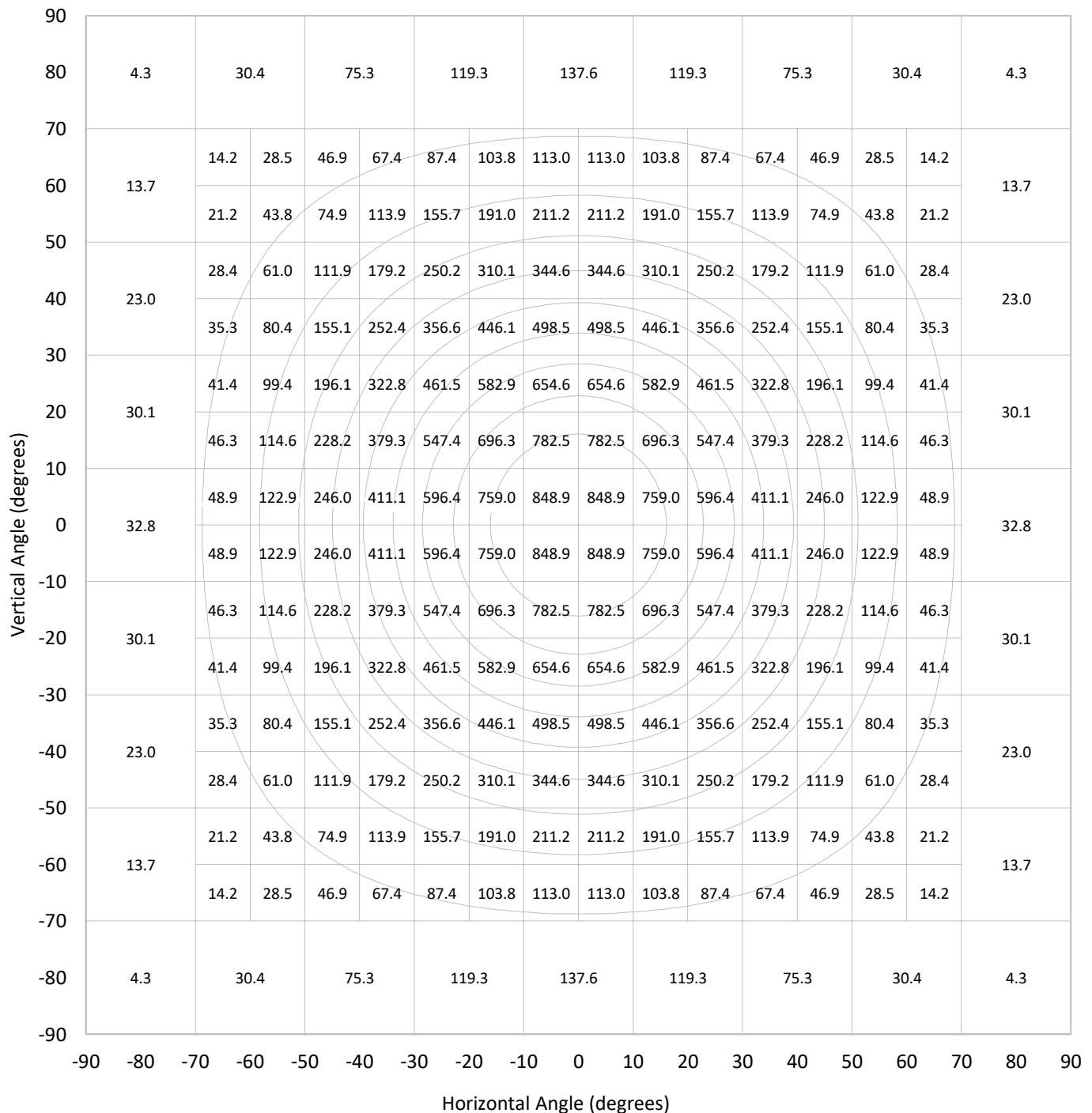
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Iso-Candela Plot



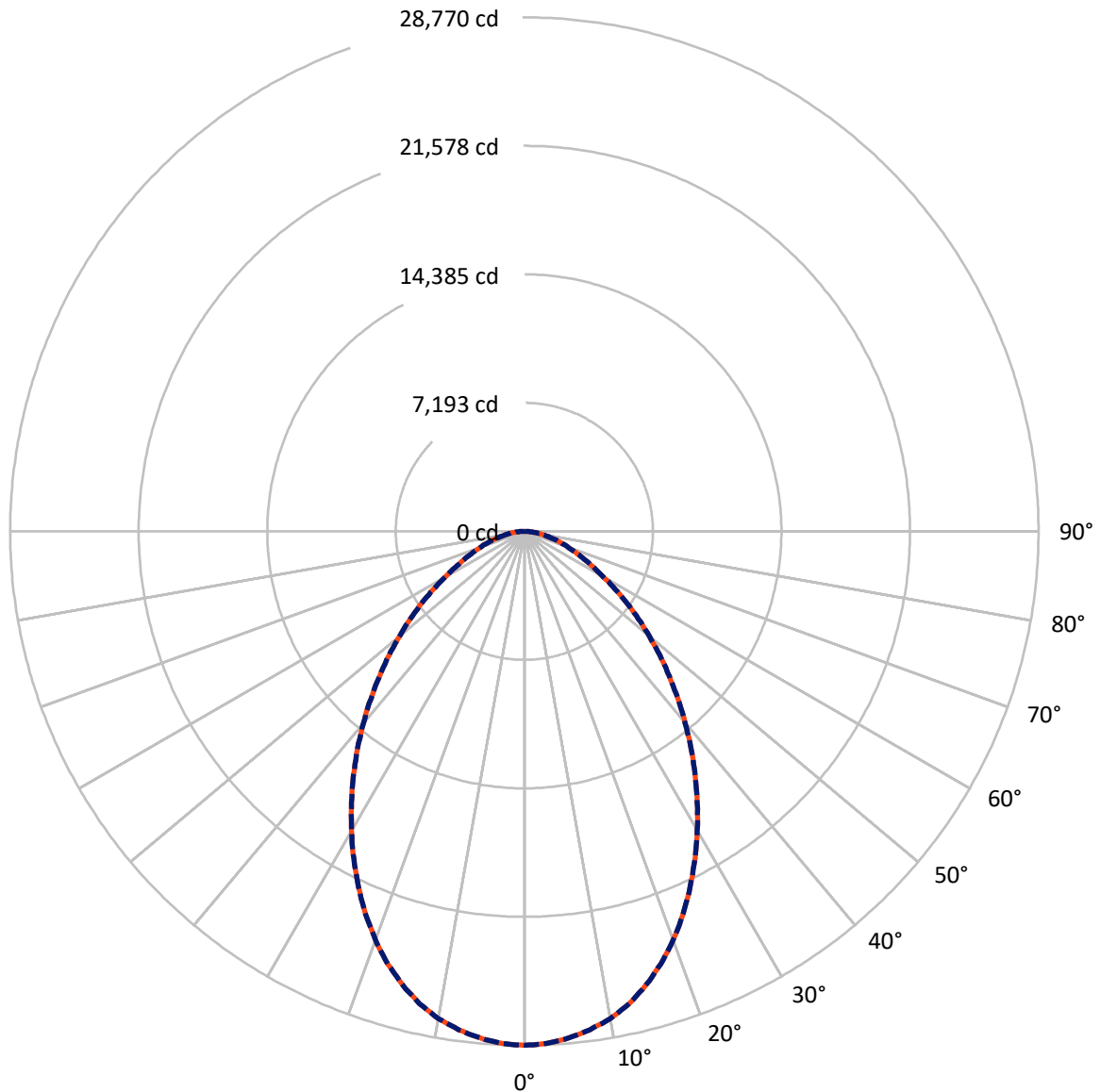
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Lumen Table



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Luminous Intensity Polar Plot

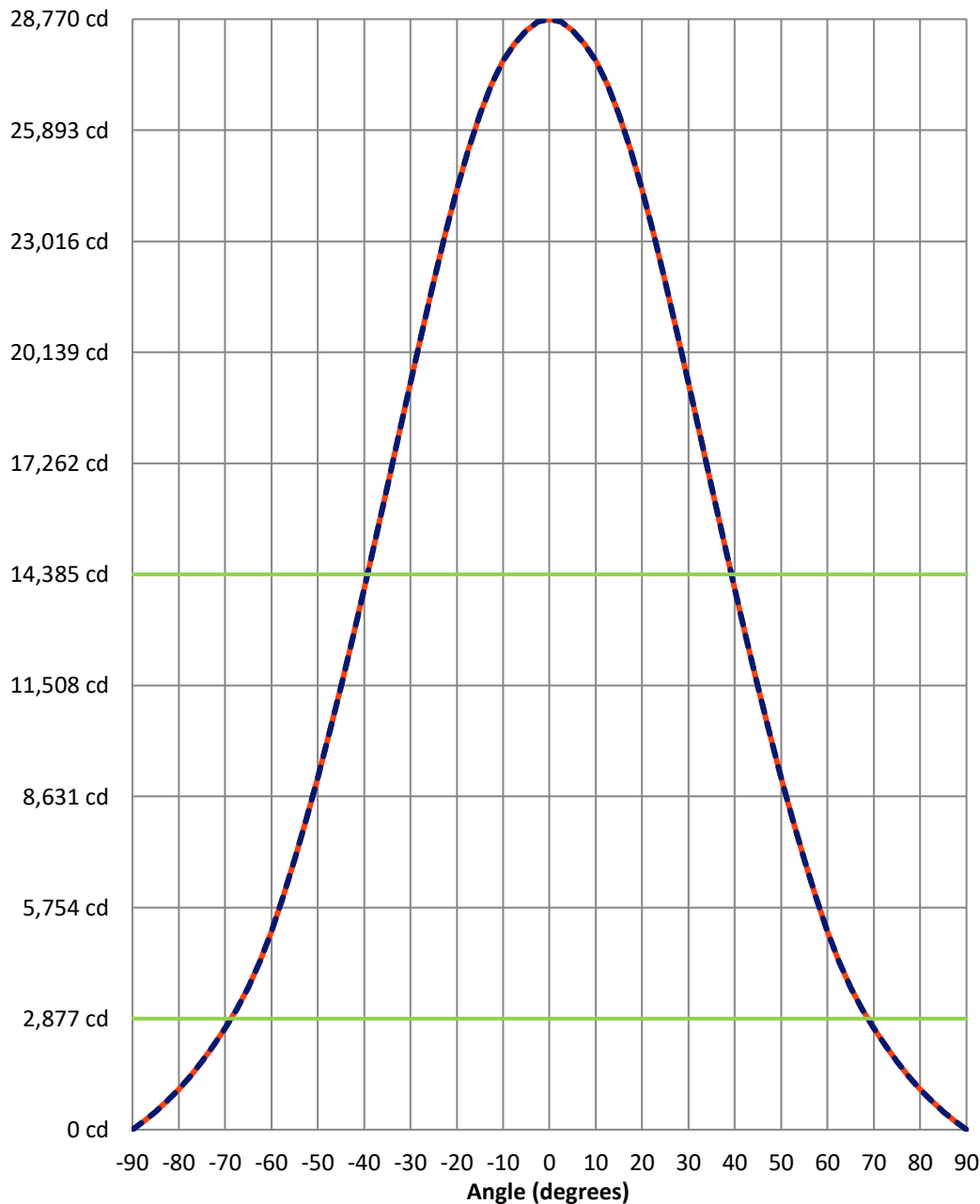


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 22414.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 36702.3
Efficiency: 70.9%

Spill:

Lumens: 15099.4
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	221.4	221.4	221.4	221.4	221.4	221.4	221.4	210.6	210.6	205.2	199.8
85°	464.5	464.5	464.5	464.5	464.5	453.7	448.3	442.9	437.5	426.7	421.3
82.5°	745.3	745.3	745.3	745.3	734.5	723.7	718.3	707.5	696.7	680.5	664.3
80°	1042.4	1042.4	1042.4	1042.4	1026.2	1015.4	999.2	988.4	972.2	950.6	928.9
77.5°	1382.6	1382.6	1382.6	1366.4	1355.6	1339.4	1323.2	1301.6	1280.0	1253.0	1220.6
75°	1766.1	1766.1	1766.1	1744.5	1728.3	1712.1	1685.1	1658.1	1625.7	1587.9	1544.6
72.5°	2181.9	2181.9	2181.9	2154.9	2138.7	2111.7	2079.3	2041.5	2003.7	1955.1	1901.1
70°	2630.2	2630.2	2630.2	2597.8	2570.8	2543.8	2500.6	2457.4	2403.4	2349.4	2284.6
67.5°	3116.3	3116.3	3116.3	3078.5	3046.1	3008.3	2959.7	2905.7	2840.8	2765.2	2689.6
65°	3683.4	3683.4	3661.8	3629.4	3591.6	3537.6	3478.1	3402.5	3321.5	3224.3	3121.7
62.5°	4353.1	4353.1	4320.7	4282.9	4234.3	4164.1	4083.0	3985.8	3872.4	3748.2	3624.0
60°	5130.8	5130.8	5093.0	5044.4	4974.2	4887.8	4779.8	4655.5	4515.1	4358.5	4207.3
57.5°	6027.4	6027.4	5978.7	5913.9	5827.5	5719.5	5584.5	5427.9	5249.6	5055.2	4866.2
55°	6999.5	6999.5	6940.1	6864.5	6761.9	6632.2	6470.2	6286.6	6070.6	5849.1	5606.1
52.5°	8031.1	8031.1	7960.9	7874.4	7755.6	7604.4	7420.8	7204.7	6956.3	6697.1	6410.8
50°	9116.6	9116.6	9035.6	8938.4	8803.4	8625.2	8414.5	8166.1	7890.6	7588.2	7258.7
47.5°	10277.8	10277.8	10186.0	10072.6	9910.6	9705.3	9456.9	9170.6	8857.4	8517.1	8144.5
45°	11471.4	11471.4	11368.8	11239.2	11060.9	10828.7	10553.3	10277.8	9878.2	9483.9	9051.8
42.5°	12713.6	12713.6	12594.8	12449.0	12243.7	11989.9	11676.6	11320.2	10925.9	10483.1	10013.2
40°	14004.4	14004.4	13869.4	13702.0	13475.1	13183.5	12832.4	12432.8	11989.9	11498.4	10979.9
37.5°	15322.2	15322.2	15171.0	14987.4	14733.5	14409.5	14015.2	13572.3	13075.5	12530.0	11957.5
35°	16650.8	16650.8	16483.4	16283.6	16002.7	15646.3	15219.6	14728.1	14177.2	13583.1	12940.4
32.5°	18006.4	18006.4	17822.8	17596.0	17277.3	16883.1	16413.2	15878.5	15322.2	14630.9	13928.8
30°	19345.9	19345.9	19146.0	18897.6	18557.3	18125.3	17612.2	17023.5	16370.0	15662.5	14906.4
27.5°	20663.7	20609.7	20442.2	20177.6	19804.9	19345.9	18789.6	18152.3	17444.8	16667.0	15856.9
25°	21959.9	21900.5	21716.8	21425.2	21025.5	20523.2	19923.7	19243.2	18481.7	17660.8	16775.0
22.5°	23202.1	23137.3	22942.8	22629.6	22202.9	21657.4	21014.7	20285.6	19475.5	18595.1	17660.8
20°	24352.4	24282.2	24082.4	23753.0	23310.1	22732.2	22051.7	21268.6	20404.4	19475.5	18481.7
17.5°	25389.4	25319.2	25108.6	24768.3	24352.4	23709.7	23007.6	22181.3	21268.6	20285.6	19243.2
15°	26302.2	26226.5	26010.5	25670.3	25195.0	24590.1	23850.2	23007.6	22051.7	21014.7	19923.7
12.5°	27079.9	27004.3	26782.8	26442.6	25951.1	25346.2	24590.1	23709.7	22732.2	21657.4	20523.2
10°	27695.6	27620.0	27409.3	27085.3	26577.6	25951.1	25195.0	24352.4	23310.1	22202.9	21025.5
7.5°	28138.4	28068.2	27873.8	27549.8	27085.3	26442.6	25670.3	24768.3	23753.0	22629.6	21425.2
5°	28473.3	28392.3	28197.9	27873.8	27409.3	26782.8	26010.5	25108.6	24082.4	22942.8	21716.8
2.5°	28705.5	28608.3	28392.3	28068.2	27620.0	27004.3	26226.5	25319.2	24282.2	23137.3	21900.5
0°	28770.3	28705.5	28473.3	28138.4	27695.6	27079.9	26302.2	25389.4	24352.4	23202.1	21959.9

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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°	194.4	194.4	189.0	183.6	178.2	167.4	162.0	156.6	151.2	140.4	135.0
85°	410.5	399.7	388.9	378.1	361.9	351.1	334.9	324.1	307.8	291.6	275.4
82.5°	648.1	631.9	610.3	594.1	572.5	545.5	523.9	496.9	469.9	448.3	421.3
80°	907.3	880.3	853.3	826.3	793.9	761.5	729.1	696.7	658.9	621.1	583.3
77.5°	1188.2	1150.4	1112.6	1069.4	1031.6	988.4	945.1	901.9	853.3	804.7	756.1
75°	1501.4	1452.8	1398.8	1344.8	1296.2	1236.8	1177.4	1118.0	1053.2	993.8	928.9
72.5°	1841.7	1782.3	1717.5	1652.7	1582.4	1506.8	1431.2	1350.2	1274.6	1199.0	1118.0
70°	2208.9	2138.7	2057.7	1976.7	1890.3	1798.5	1706.7	1609.5	1512.2	1415.0	1317.8
67.5°	2603.2	2516.8	2419.6	2322.4	2214.3	2106.3	1998.3	1884.9	1766.1	1647.3	1533.8
65°	3024.5	2916.5	2803.0	2678.8	2554.6	2430.4	2300.8	2165.7	2030.7	1890.3	1766.1
62.5°	3494.4	3359.3	3213.5	3062.3	2921.9	2770.6	2630.2	2462.8	2300.8	2144.1	1987.5
60°	4039.8	3861.6	3683.4	3494.4	3316.1	3121.7	2948.9	2765.2	2581.6	2403.4	2219.8
57.5°	4650.1	4423.3	4207.3	3980.4	3742.8	3526.8	3305.3	3083.9	2878.7	2668.0	2468.2
55°	5341.4	5066.0	4796.0	4515.1	4239.7	3969.6	3688.8	3440.3	3186.5	2948.9	2716.6
52.5°	6097.6	5784.3	5449.5	5130.8	4779.8	4444.9	4131.7	3818.4	3521.4	3235.1	2970.5
50°	6907.7	6540.4	6157.0	5768.1	5368.4	4974.2	4596.1	4228.9	3883.2	3548.4	3235.1
47.5°	7750.2	7334.4	6896.9	6454.0	6027.4	5546.7	5093.0	4677.1	4261.3	3883.2	3521.4
45°	8614.4	8144.5	7663.8	7161.5	6659.3	6140.8	5638.5	5130.8	4677.1	4228.9	3818.4
42.5°	9505.5	8976.2	8441.5	7885.2	7329.0	6761.9	6194.8	5638.5	5093.0	4596.1	4131.7
40°	10423.6	9840.4	9230.1	8625.2	8031.1	7383.0	6761.9	6140.8	5546.7	4974.2	4444.9
37.5°	11341.8	10704.5	10045.6	9365.1	8684.6	8031.1	7329.0	6659.3	6027.4	5368.4	4779.8
35°	12265.3	11563.2	10850.3	10110.4	9365.1	8625.2	7885.2	7161.5	6454.0	5768.1	5130.8
32.5°	13194.3	12427.4	11638.8	10850.3	10045.6	9230.1	8441.5	7663.8	6896.9	6157.0	5449.5
30°	14107.0	13275.3	12427.4	11563.2	10704.5	9840.4	8976.2	8144.5	7334.4	6540.4	5784.3
27.5°	14998.2	14107.0	13194.3	12265.3	11341.8	10423.6	9505.5	8614.4	7750.2	6907.7	6097.6
25°	15856.9	14906.4	13928.8	12940.4	11957.5	10979.9	10013.2	9051.8	8144.5	7258.7	6410.8
22.5°	16667.0	15662.5	14630.9	13583.1	12530.0	11498.4	10483.1	9483.9	8517.1	7588.2	6697.1
20°	17444.8	16370.0	15322.2	14177.2	13075.5	11989.9	10925.9	9878.2	8857.4	7890.6	6956.3
17.5°	18152.3	17023.5	15878.5	14728.1	13572.3	12432.8	11320.2	10277.8	9170.6	8166.1	7204.7
15°	18789.6	17612.2	16413.2	15219.6	14015.2	12832.4	11676.6	10553.3	9456.9	8414.5	7420.8
12.5°	19345.9	18125.3	16883.1	15646.3	14409.5	13183.5	11989.9	10828.7	9705.3	8625.2	7604.4
10°	19804.9	18557.3	17277.3	16002.7	14733.5	13475.1	12243.7	11060.9	9910.6	8803.4	7755.6
7.5°	20177.6	18897.6	17596.0	16283.6	14987.4	13702.0	12449.0	11239.2	10072.6	8938.4	7874.4
5°	20442.2	19146.0	17822.8	16483.4	15171.0	13869.4	12594.8	11368.8	10186.0	9035.6	7960.9
2.5°	20609.7	19345.9	18006.4	16650.8	15322.2	14004.4	12713.6	11471.4	10277.8	9116.6	8031.1
0°	20663.7	19345.9	18006.4	16650.8	15322.2	14004.4	12713.6	11471.4	10277.8	9116.6	8031.1

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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°	129.6	118.8	108.0	102.6	91.8	86.4	75.6	64.8	59.4	48.6	37.8
85°	259.2	237.6	221.4	205.2	189.0	167.4	151.2	135.0	113.4	97.2	75.6
82.5°	394.3	367.3	340.3	313.2	286.2	259.2	226.8	199.8	172.8	145.8	113.4
80°	545.5	502.3	464.5	426.7	388.9	351.1	307.8	270.0	226.8	189.0	151.2
77.5°	702.1	653.5	599.5	545.5	491.5	442.9	388.9	340.3	291.6	237.6	189.0
75°	869.5	804.7	745.3	675.1	610.3	540.1	475.3	410.5	351.1	291.6	226.8
72.5°	1042.4	961.4	880.3	804.7	723.7	642.7	567.1	486.1	410.5	340.3	270.0
70°	1220.6	1123.4	1026.2	934.3	842.5	745.3	658.9	567.1	475.3	388.9	307.8
67.5°	1409.6	1296.2	1182.8	1064.0	961.4	853.3	745.3	642.7	540.1	442.9	351.1
65°	1614.9	1479.8	1339.4	1215.2	1080.2	961.4	842.5	723.7	610.3	491.5	388.9
62.5°	1825.5	1668.9	1512.2	1355.6	1215.2	1064.0	934.3	804.7	675.1	545.5	426.7
60°	2041.5	1863.3	1685.1	1512.2	1339.4	1182.8	1026.2	880.3	745.3	599.5	464.5
57.5°	2263.0	2063.1	1863.3	1668.9	1479.8	1296.2	1123.4	961.4	804.7	653.5	502.3
55°	2489.8	2263.0	2041.5	1825.5	1614.9	1409.6	1220.6	1042.4	869.5	702.1	545.5
52.5°	2716.6	2468.2	2219.8	1987.5	1766.1	1533.8	1317.8	1118.0	928.9	756.1	583.3
50°	2948.9	2668.0	2403.4	2144.1	1890.3	1647.3	1415.0	1199.0	993.8	804.7	621.1
47.5°	3186.5	2878.7	2581.6	2300.8	2030.7	1766.1	1512.2	1274.6	1053.2	853.3	658.9
45°	3440.3	3083.9	2765.2	2462.8	2165.7	1884.9	1609.5	1350.2	1118.0	901.9	696.7
42.5°	3688.8	3305.3	2948.9	2630.2	2300.8	1998.3	1706.7	1431.2	1177.4	945.1	729.1
40°	3969.6	3526.8	3121.7	2770.6	2430.4	2106.3	1798.5	1506.8	1236.8	988.4	761.5
37.5°	4239.7	3742.8	3316.1	2921.9	2554.6	2214.3	1890.3	1582.4	1296.2	1031.6	793.9
35°	4515.1	3980.4	3494.4	3062.3	2678.8	2322.4	1976.7	1652.7	1344.8	1069.4	826.3
32.5°	4796.0	4207.3	3683.4	3213.5	2803.0	2419.6	2057.7	1717.5	1398.8	1112.6	853.3
30°	5066.0	4423.3	3861.6	3359.3	2916.5	2516.8	2138.7	1782.3	1452.8	1150.4	880.3
27.5°	5341.4	4650.1	4039.8	3494.4	3024.5	2603.2	2208.9	1841.7	1501.4	1188.2	907.3
25°	5606.1	4866.2	4207.3	3624.0	3121.7	2689.6	2284.6	1901.1	1544.6	1220.6	928.9
22.5°	5849.1	5055.2	4358.5	3748.2	3224.3	2765.2	2349.4	1955.1	1587.9	1253.0	950.6
20°	6070.6	5249.6	4515.1	3872.4	3321.5	2840.8	2403.4	2003.7	1625.7	1280.0	972.2
17.5°	6286.6	5427.9	4655.5	3985.8	3402.5	2905.7	2457.4	2041.5	1658.1	1301.6	988.4
15°	6470.2	5584.5	4779.8	4083.0	3478.1	2959.7	2500.6	2079.3	1685.1	1323.2	999.2
12.5°	6632.2	5719.5	4887.8	4164.1	3537.6	3008.3	2543.8	2111.7	1712.1	1339.4	1015.4
10°	6761.9	5827.5	4974.2	4234.3	3591.6	3046.1	2570.8	2138.7	1728.3	1355.6	1026.2
7.5°	6864.5	5913.9	5044.4	4282.9	3629.4	3078.5	2597.8	2154.9	1744.5	1366.4	1042.4
5°	6940.1	5978.7	5093.0	4320.7	3661.8	3116.3	2630.2	2181.9	1766.1	1382.6	1042.4
2.5°	6999.5	6027.4	5130.8	4353.1	3683.4	3116.3	2630.2	2181.9	1766.1	1382.6	1042.4
0°	6999.5	6027.4	5130.8	4353.1	3683.4	3116.3	2630.2	2181.9	1766.1	1382.6	1042.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.0	21.6	10.8	0.0
85°	59.4	37.8	21.6	0.0
82.5°	86.4	59.4	27.0	0.0
80°	113.4	75.6	37.8	0.0
77.5°	145.8	97.2	48.6	0.0
75°	172.8	113.4	59.4	0.0
72.5°	199.8	135.0	64.8	0.0
70°	226.8	151.2	75.6	0.0
67.5°	259.2	167.4	86.4	0.0
65°	286.2	189.0	91.8	0.0
62.5°	313.2	205.2	102.6	0.0
60°	340.3	221.4	108.0	0.0
57.5°	367.3	237.6	118.8	0.0
55°	394.3	259.2	129.6	0.0
52.5°	421.3	275.4	135.0	0.0
50°	448.3	291.6	140.4	0.0
47.5°	469.9	307.8	151.2	0.0
45°	496.9	324.1	156.6	0.0
42.5°	523.9	334.9	162.0	0.0
40°	545.5	351.1	167.4	0.0
37.5°	572.5	361.9	178.2	0.0
35°	594.1	378.1	183.6	0.0
32.5°	610.3	388.9	189.0	0.0
30°	631.9	399.7	194.4	0.0
27.5°	648.1	410.5	194.4	0.0
25°	664.3	421.3	199.8	0.0
22.5°	680.5	426.7	205.2	0.0
20°	696.7	437.5	210.6	0.0
17.5°	707.5	442.9	210.6	0.0
15°	718.3	448.3	221.4	0.0
12.5°	723.7	453.7	221.4	0.0
10°	734.5	464.5	221.4	0.0
7.5°	745.3	464.5	221.4	0.0
5°	745.3	464.5	221.4	0.0
2.5°	745.3	464.5	221.4	0.0
0°	745.3	464.5	221.4	0.0

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