

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: P623887

Luminaire Tested: **IFLD-M-SA4D-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623887
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

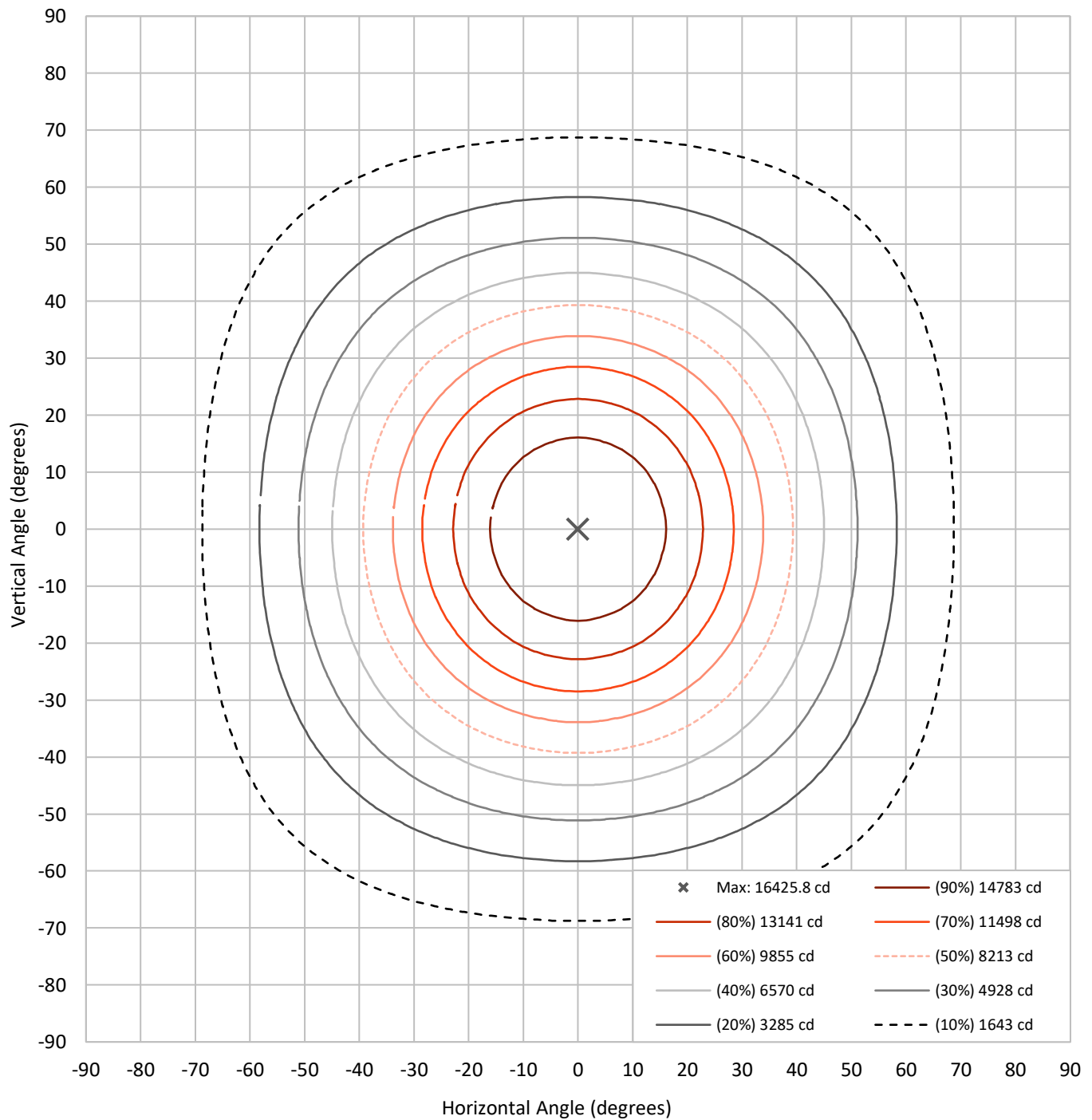
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29575.1 lumens	Max Intensity:	16425.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	12796.8 lumens	Field Lumens:	20954.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	249.7		
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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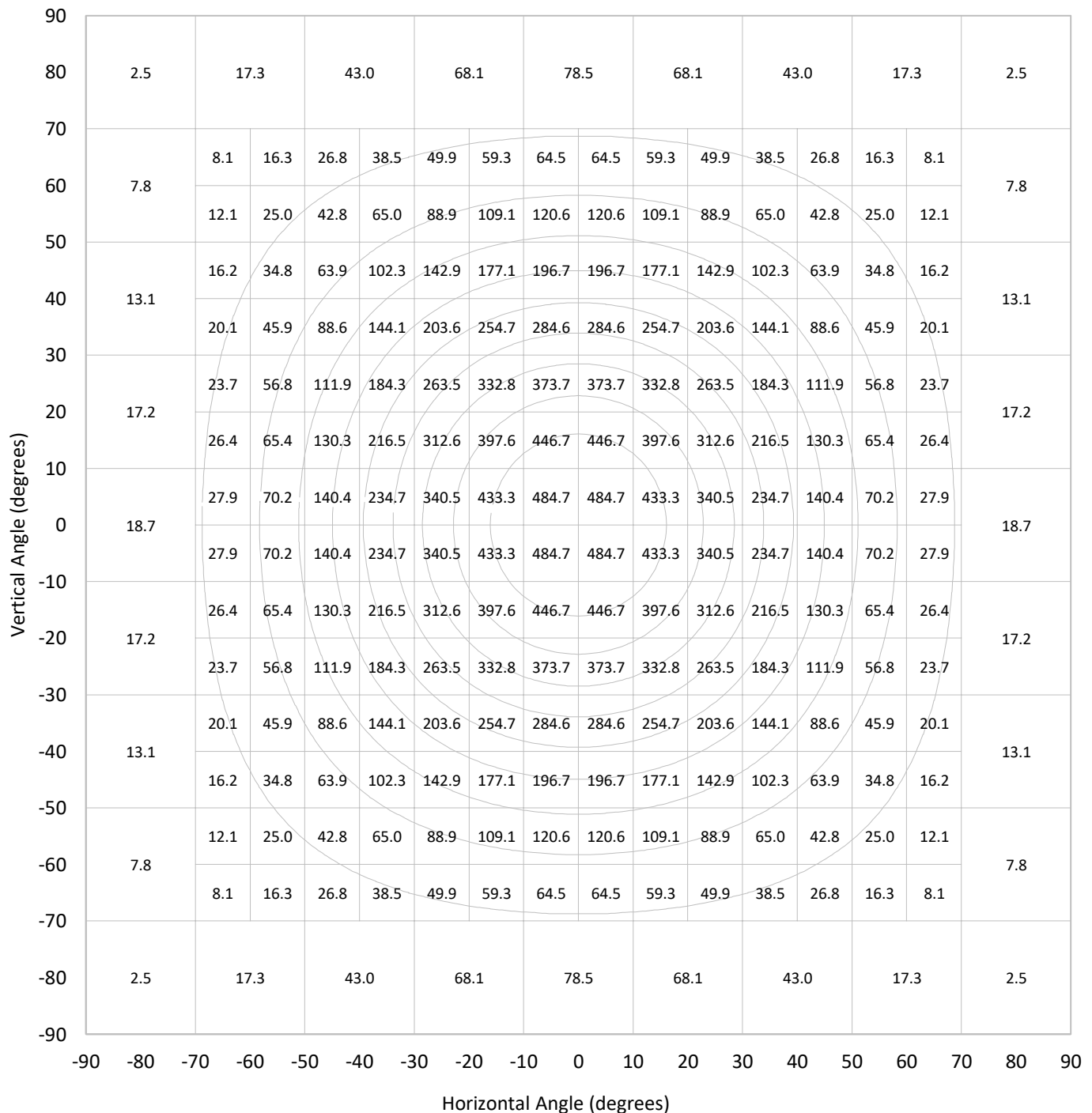
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Iso-Candela Plot



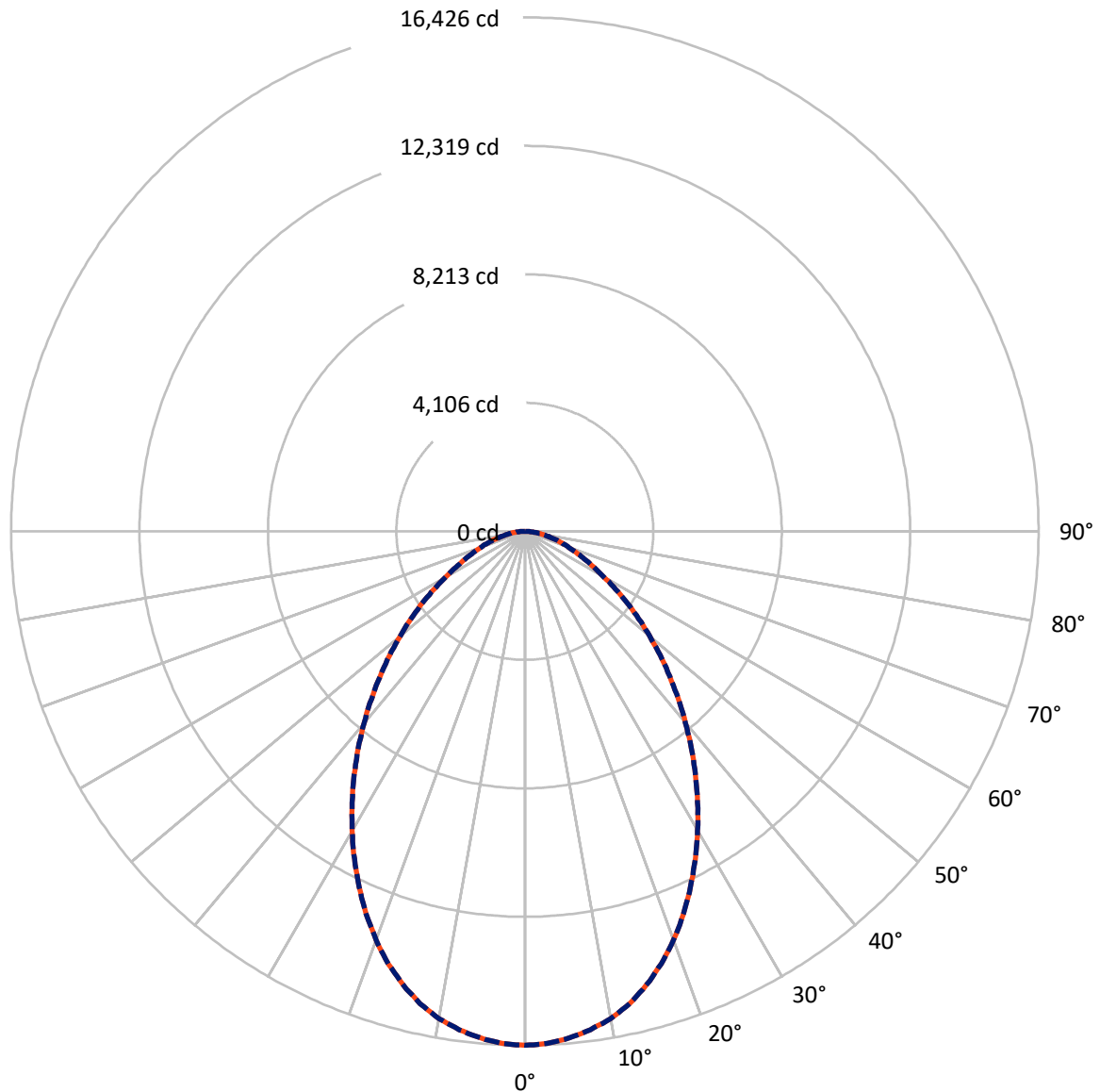
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Lumen Table



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Luminous Intensity Polar Plot

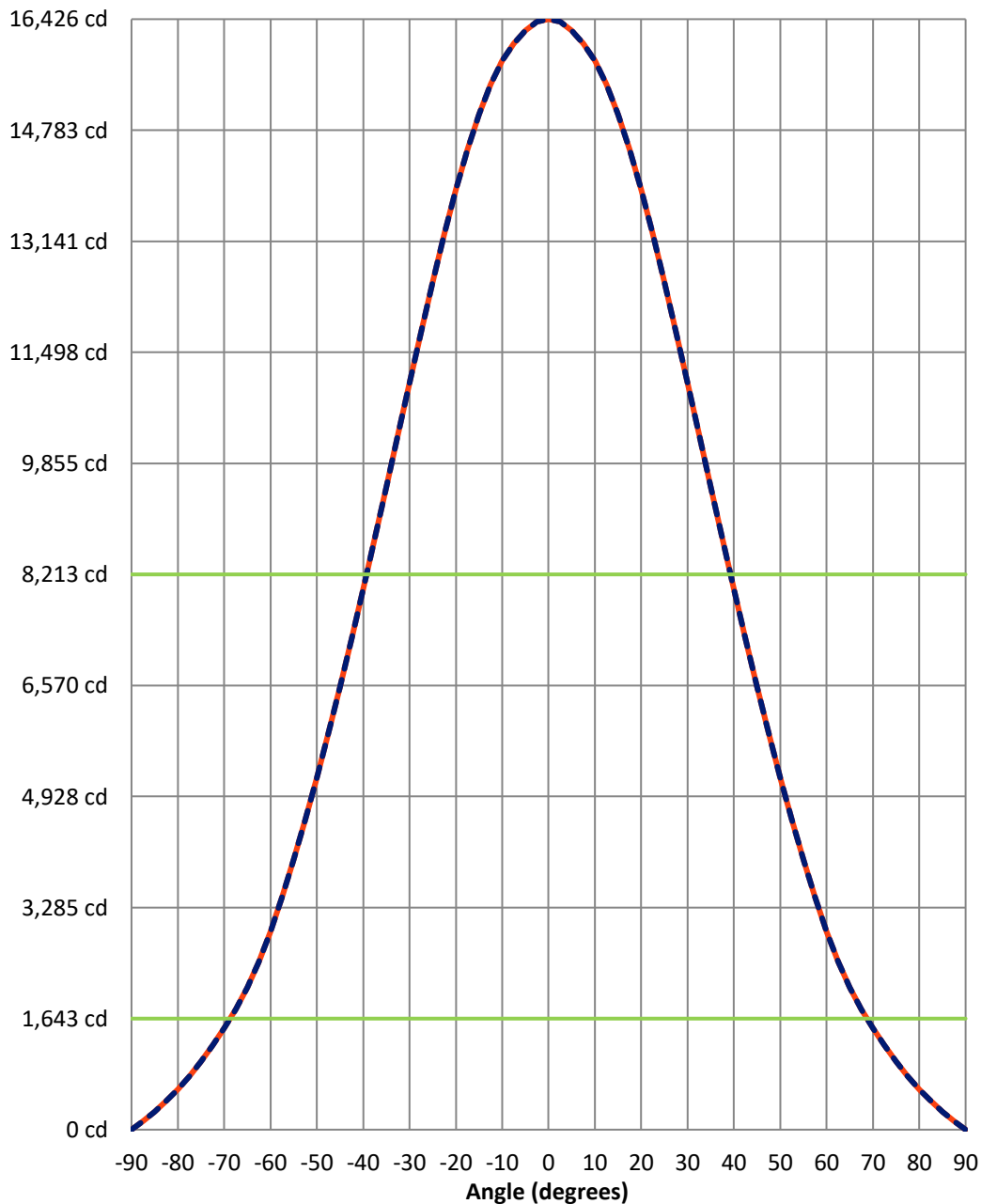


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 12796.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 20954.4
Efficiency: 70.9%

Spill:

Lumens: 8620.7
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°	126.4	126.4	126.4	126.4	126.4	126.4	126.4	120.3	120.3	117.2	114.1
85°	265.2	265.2	265.2	265.2	265.2	259.0	255.9	252.8	249.8	243.6	240.5
82.5°	425.5	425.5	425.5	425.5	419.4	413.2	410.1	403.9	397.8	388.5	379.3
80°	595.1	595.1	595.1	595.1	585.9	579.7	570.4	564.3	555.0	542.7	530.4
77.5°	789.4	789.4	789.4	780.1	774.0	764.7	755.5	743.1	730.8	715.4	696.9
75°	1008.3	1008.3	1008.3	996.0	986.7	977.5	962.1	946.6	928.1	906.6	881.9
72.5°	1245.7	1245.7	1245.7	1230.3	1221.1	1205.7	1187.1	1165.6	1144.0	1116.2	1085.4
70°	1501.7	1501.7	1501.7	1483.2	1467.7	1452.3	1427.7	1403.0	1372.2	1341.3	1304.3
67.5°	1779.2	1779.2	1779.2	1757.6	1739.1	1717.5	1689.8	1658.9	1621.9	1578.8	1535.6
65°	2103.0	2103.0	2090.6	2072.1	2050.5	2019.7	1985.8	1942.6	1896.4	1840.9	1782.3
62.5°	2485.3	2485.3	2466.8	2445.2	2417.5	2377.4	2331.1	2275.6	2210.9	2140.0	2069.0
60°	2929.3	2929.3	2907.7	2880.0	2839.9	2790.6	2728.9	2658.0	2577.8	2488.4	2402.1
57.5°	3441.2	3441.2	3413.4	3376.4	3327.1	3265.4	3188.3	3098.9	2997.2	2886.2	2778.2
55°	3996.2	3996.2	3962.3	3919.1	3860.5	3786.5	3694.0	3589.2	3465.9	3339.4	3200.7
52.5°	4585.2	4585.2	4545.1	4495.7	4427.9	4341.6	4236.7	4113.4	3971.6	3823.5	3660.1
50°	5205.0	5205.0	5158.7	5103.2	5026.1	4924.4	4804.1	4662.3	4505.0	4332.3	4144.2
47.5°	5867.9	5867.9	5815.5	5750.7	5658.2	5541.1	5399.2	5235.8	5056.9	4862.7	4649.9
45°	6549.4	6549.4	6490.8	6416.8	6315.0	6182.4	6025.2	5867.9	5639.7	5414.6	5168.0
42.5°	7258.6	7258.6	7190.7	7107.5	6990.3	6845.4	6666.5	6463.0	6237.9	5985.1	5716.8
40°	7995.5	7995.5	7918.4	7822.9	7693.3	7526.8	7326.4	7098.2	6845.4	6564.8	6268.8
37.5°	8747.9	8747.9	8661.6	8556.7	8411.8	8226.8	8001.7	7748.8	7465.2	7153.7	6826.9
35°	9506.4	9506.4	9410.9	9296.8	9136.4	8932.9	8689.3	8408.7	8094.2	7755.0	7388.1
32.5°	10280.4	10280.4	10175.6	10046.1	9864.1	9639.0	9370.8	9065.5	8747.9	8353.2	7952.4
30°	11045.1	11045.1	10931.0	10789.2	10594.9	10348.2	10055.3	9719.2	9346.1	8942.2	8510.5
27.5°	11797.5	11766.7	11671.1	11520.0	11307.2	11045.1	10727.5	10363.7	9959.7	9515.7	9053.2
25°	12537.5	12503.6	12398.8	12232.3	12004.1	11717.3	11375.0	10986.5	10551.8	10083.1	9577.4
22.5°	13246.7	13209.7	13098.7	12919.9	12676.3	12364.9	11997.9	11581.6	11119.1	10616.5	10083.1
20°	13903.5	13863.4	13749.3	13561.3	13308.4	12978.5	12589.9	12142.8	11649.5	11119.1	10551.8
17.5°	14495.6	14455.5	14335.2	14141.0	13903.5	13536.6	13135.7	12664.0	12142.8	11581.6	10986.5
15°	15016.7	14973.5	14850.2	14655.9	14384.5	14039.2	13616.8	13135.7	12589.9	11997.9	11375.0
12.5°	15460.7	15417.5	15291.1	15096.8	14816.2	14470.9	14039.2	13536.6	12978.5	12364.9	11717.3
10°	15812.2	15769.0	15648.8	15463.8	15173.9	14816.2	14384.5	13903.5	13308.4	12676.3	12004.1
7.5°	16065.1	16025.0	15914.0	15729.0	15463.8	15096.8	14655.9	14141.0	13561.3	12919.9	12232.3
5°	16256.2	16210.0	16099.0	15914.0	15648.8	15291.1	14850.2	14335.2	13749.3	13098.7	12398.8
2.5°	16388.8	16333.3	16210.0	16025.0	15769.0	15417.5	14973.5	14455.5	13863.4	13209.7	12503.6
0°	16425.8	16388.8	16256.2	16065.1	15812.2	15460.7	15016.7	14495.6	13903.5	13246.7	12537.5

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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°	111.0	111.0	107.9	104.8	101.8	95.6	92.5	89.4	86.3	80.2	77.1
85°	234.3	228.2	222.0	215.8	206.6	200.4	191.2	185.0	175.8	166.5	157.3
82.5°	370.0	360.8	348.4	339.2	326.9	311.4	299.1	283.7	268.3	255.9	240.5
80°	518.0	502.6	487.2	471.8	453.3	434.8	416.3	397.8	376.2	354.6	333.0
77.5°	678.4	656.8	635.2	610.5	588.9	564.3	539.6	514.9	487.2	459.4	431.7
75°	857.2	829.5	798.6	767.8	740.0	706.1	672.2	638.3	601.3	567.4	530.4
72.5°	1051.5	1017.6	980.6	943.6	903.5	860.3	817.1	770.9	727.7	684.5	638.3
70°	1261.2	1221.1	1174.8	1128.6	1079.2	1026.8	974.4	918.9	863.4	807.9	752.4
67.5°	1486.2	1436.9	1381.4	1325.9	1264.2	1202.6	1140.9	1076.1	1008.3	940.5	875.7
65°	1726.8	1665.1	1600.3	1529.4	1458.5	1387.6	1313.6	1236.5	1159.4	1079.2	1008.3
62.5°	1995.0	1917.9	1834.7	1748.3	1668.2	1581.8	1501.7	1406.1	1313.6	1224.2	1134.7
60°	2306.5	2204.7	2103.0	1995.0	1893.3	1782.3	1683.6	1578.8	1473.9	1372.2	1267.3
57.5°	2654.9	2525.4	2402.1	2272.5	2136.9	2013.5	1887.1	1760.7	1643.5	1523.3	1409.2
55°	3049.6	2892.3	2738.2	2577.8	2420.6	2266.4	2106.0	1964.2	1819.3	1683.6	1551.0
52.5°	3481.3	3302.4	3111.3	2929.3	2728.9	2537.7	2358.9	2180.0	2010.4	1847.0	1695.9
50°	3943.8	3734.1	3515.2	3293.2	3065.0	2839.9	2624.1	2414.4	2217.0	2025.9	1847.0
47.5°	4424.8	4187.4	3937.6	3684.8	3441.2	3166.8	2907.7	2670.3	2432.9	2217.0	2010.4
45°	4918.2	4649.9	4375.5	4088.7	3802.0	3505.9	3219.2	2929.3	2670.3	2414.4	2180.0
42.5°	5427.0	5124.8	4819.5	4501.9	4184.3	3860.5	3536.8	3219.2	2907.7	2624.1	2358.9
40°	5951.2	5618.1	5269.7	4924.4	4585.2	4215.2	3860.5	3505.9	3166.8	2839.9	2537.7
37.5°	6475.4	6111.5	5735.3	5346.8	4958.3	4585.2	4184.3	3802.0	3441.2	3065.0	2728.9
35°	7002.6	6601.8	6194.8	5772.3	5346.8	4924.4	4501.9	4088.7	3684.8	3293.2	2929.3
32.5°	7533.0	7095.1	6645.0	6194.8	5735.3	5269.7	4819.5	4375.5	3937.6	3515.2	3111.3
30°	8054.1	7579.3	7095.1	6601.8	6111.5	5618.1	5124.8	4649.9	4187.4	3734.1	3302.4
27.5°	8562.9	8054.1	7533.0	7002.6	6475.4	5951.2	5427.0	4918.2	4424.8	3943.8	3481.3
25°	9053.2	8510.5	7952.4	7388.1	6826.9	6268.8	5716.8	5168.0	4649.9	4144.2	3660.1
22.5°	9515.7	8942.2	8353.2	7755.0	7153.7	6564.8	5985.1	5414.6	4862.7	4332.3	3823.5
20°	9959.7	9346.1	8747.9	8094.2	7465.2	6845.4	6237.9	5639.7	5056.9	4505.0	3971.6
17.5°	10363.7	9719.2	9065.5	8408.7	7748.8	7098.2	6463.0	5867.9	5235.8	4662.3	4113.4
15°	10727.5	10055.3	9370.8	8689.3	8001.7	7326.4	6666.5	6025.2	5399.2	4804.1	4236.7
12.5°	11045.1	10348.2	9639.0	8932.9	8226.8	7526.8	6845.4	6182.4	5541.1	4924.4	4341.6
10°	11307.2	10594.9	9864.1	9136.4	8411.8	7693.3	6990.3	6315.0	5658.2	5026.1	4427.9
7.5°	11520.0	10789.2	10046.1	9296.8	8556.7	7822.9	7107.5	6416.8	5750.7	5103.2	4495.7
5°	11671.1	10931.0	10175.6	9410.9	8661.6	7918.4	7190.7	6490.8	5815.5	5158.7	4545.1
2.5°	11766.7	11045.1	10280.4	9506.4	8747.9	7995.5	7258.6	6549.4	5867.9	5205.0	4585.2
0°	11797.5	11045.1	10280.4	9506.4	8747.9	7995.5	7258.6	6549.4	5867.9	5205.0	4585.2

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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°	74.0	67.8	61.7	58.6	52.4	49.3	43.2	37.0	33.9	27.8	21.6
85°	148.0	135.7	126.4	117.2	107.9	95.6	86.3	77.1	64.8	55.5	43.2
82.5°	225.1	209.7	194.3	178.8	163.4	148.0	129.5	114.1	98.7	83.3	64.8
80°	311.4	286.8	265.2	243.6	222.0	200.4	175.8	154.2	129.5	107.9	86.3
77.5°	400.9	373.1	342.3	311.4	280.6	252.8	222.0	194.3	166.5	135.7	107.9
75°	496.4	459.4	425.5	385.4	348.4	308.4	271.3	234.3	200.4	166.5	129.5
72.5°	595.1	548.9	502.6	459.4	413.2	366.9	323.8	277.5	234.3	194.3	154.2
70°	696.9	641.4	585.9	533.4	481.0	425.5	376.2	323.8	271.3	222.0	175.8
67.5°	804.8	740.0	675.3	607.5	548.9	487.2	425.5	366.9	308.4	252.8	200.4
65°	922.0	844.9	764.7	693.8	616.7	548.9	481.0	413.2	348.4	280.6	222.0
62.5°	1042.2	952.8	863.4	774.0	693.8	607.5	533.4	459.4	385.4	311.4	243.6
60°	1165.6	1063.8	962.1	863.4	764.7	675.3	585.9	502.6	425.5	342.3	265.2
57.5°	1292.0	1177.9	1063.8	952.8	844.9	740.0	641.4	548.9	459.4	373.1	286.8
55°	1421.5	1292.0	1165.6	1042.2	922.0	804.8	696.9	595.1	496.4	400.9	311.4
52.5°	1551.0	1409.2	1267.3	1134.7	1008.3	875.7	752.4	638.3	530.4	431.7	333.0
50°	1683.6	1523.3	1372.2	1224.2	1079.2	940.5	807.9	684.5	567.4	459.4	354.6
47.5°	1819.3	1643.5	1473.9	1313.6	1159.4	1008.3	863.4	727.7	601.3	487.2	376.2
45°	1964.2	1760.7	1578.8	1406.1	1236.5	1076.1	918.9	770.9	638.3	514.9	397.8
42.5°	2106.0	1887.1	1683.6	1501.7	1313.6	1140.9	974.4	817.1	672.2	539.6	416.3
40°	2266.4	2013.5	1782.3	1581.8	1387.6	1202.6	1026.8	860.3	706.1	564.3	434.8
37.5°	2420.6	2136.9	1893.3	1668.2	1458.5	1264.2	1079.2	903.5	740.0	588.9	453.3
35°	2577.8	2272.5	1995.0	1748.3	1529.4	1325.9	1128.6	943.6	767.8	610.5	471.8
32.5°	2738.2	2402.1	2103.0	1834.7	1600.3	1381.4	1174.8	980.6	798.6	635.2	487.2
30°	2892.3	2525.4	2204.7	1917.9	1665.1	1436.9	1221.1	1017.6	829.5	656.8	502.6
27.5°	3049.6	2654.9	2306.5	1995.0	1726.8	1486.2	1261.2	1051.5	857.2	678.4	518.0
25°	3200.7	2778.2	2402.1	2069.0	1782.3	1535.6	1304.3	1085.4	881.9	696.9	530.4
22.5°	3339.4	2886.2	2488.4	2140.0	1840.9	1578.8	1341.3	1116.2	906.6	715.4	542.7
20°	3465.9	2997.2	2577.8	2210.9	1896.4	1621.9	1372.2	1144.0	928.1	730.8	555.0
17.5°	3589.2	3098.9	2658.0	2275.6	1942.6	1658.9	1403.0	1165.6	946.6	743.1	564.3
15°	3694.0	3188.3	2728.9	2331.1	1985.8	1689.8	1427.7	1187.1	962.1	755.5	570.4
12.5°	3786.5	3265.4	2790.6	2377.4	2019.7	1717.5	1452.3	1205.7	977.5	764.7	579.7
10°	3860.5	3327.1	2839.9	2417.5	2050.5	1739.1	1467.7	1221.1	986.7	774.0	585.9
7.5°	3919.1	3376.4	2880.0	2445.2	2072.1	1757.6	1483.2	1230.3	996.0	780.1	595.1
5°	3962.3	3413.4	2907.7	2466.8	2090.6	1779.2	1501.7	1245.7	1008.3	789.4	595.1
2.5°	3996.2	3441.2	2929.3	2485.3	2103.0	1779.2	1501.7	1245.7	1008.3	789.4	595.1
0°	3996.2	3441.2	2929.3	2485.3	2103.0	1779.2	1501.7	1245.7	1008.3	789.4	595.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.4	12.3	6.2	0.0
85°	33.9	21.6	12.3	0.0
82.5°	49.3	33.9	15.4	0.0
80°	64.8	43.2	21.6	0.0
77.5°	83.3	55.5	27.8	0.0
75°	98.7	64.8	33.9	0.0
72.5°	114.1	77.1	37.0	0.0
70°	129.5	86.3	43.2	0.0
67.5°	148.0	95.6	49.3	0.0
65°	163.4	107.9	52.4	0.0
62.5°	178.8	117.2	58.6	0.0
60°	194.3	126.4	61.7	0.0
57.5°	209.7	135.7	67.8	0.0
55°	225.1	148.0	74.0	0.0
52.5°	240.5	157.3	77.1	0.0
50°	255.9	166.5	80.2	0.0
47.5°	268.3	175.8	86.3	0.0
45°	283.7	185.0	89.4	0.0
42.5°	299.1	191.2	92.5	0.0
40°	311.4	200.4	95.6	0.0
37.5°	326.9	206.6	101.8	0.0
35°	339.2	215.8	104.8	0.0
32.5°	348.4	222.0	107.9	0.0
30°	360.8	228.2	111.0	0.0
27.5°	370.0	234.3	111.0	0.0
25°	379.3	240.5	114.1	0.0
22.5°	388.5	243.6	117.2	0.0
20°	397.8	249.8	120.3	0.0
17.5°	403.9	252.8	120.3	0.0
15°	410.1	255.9	126.4	0.0
12.5°	413.2	259.0	126.4	0.0
10°	419.4	265.2	126.4	0.0
7.5°	425.5	265.2	126.4	0.0
5°	425.5	265.2	126.4	0.0
2.5°	425.5	265.2	126.4	0.0
0°	425.5	265.2	126.4	0.0

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