

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: P624576

Luminaire Tested: **IFLD-L-SA7D-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624576
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

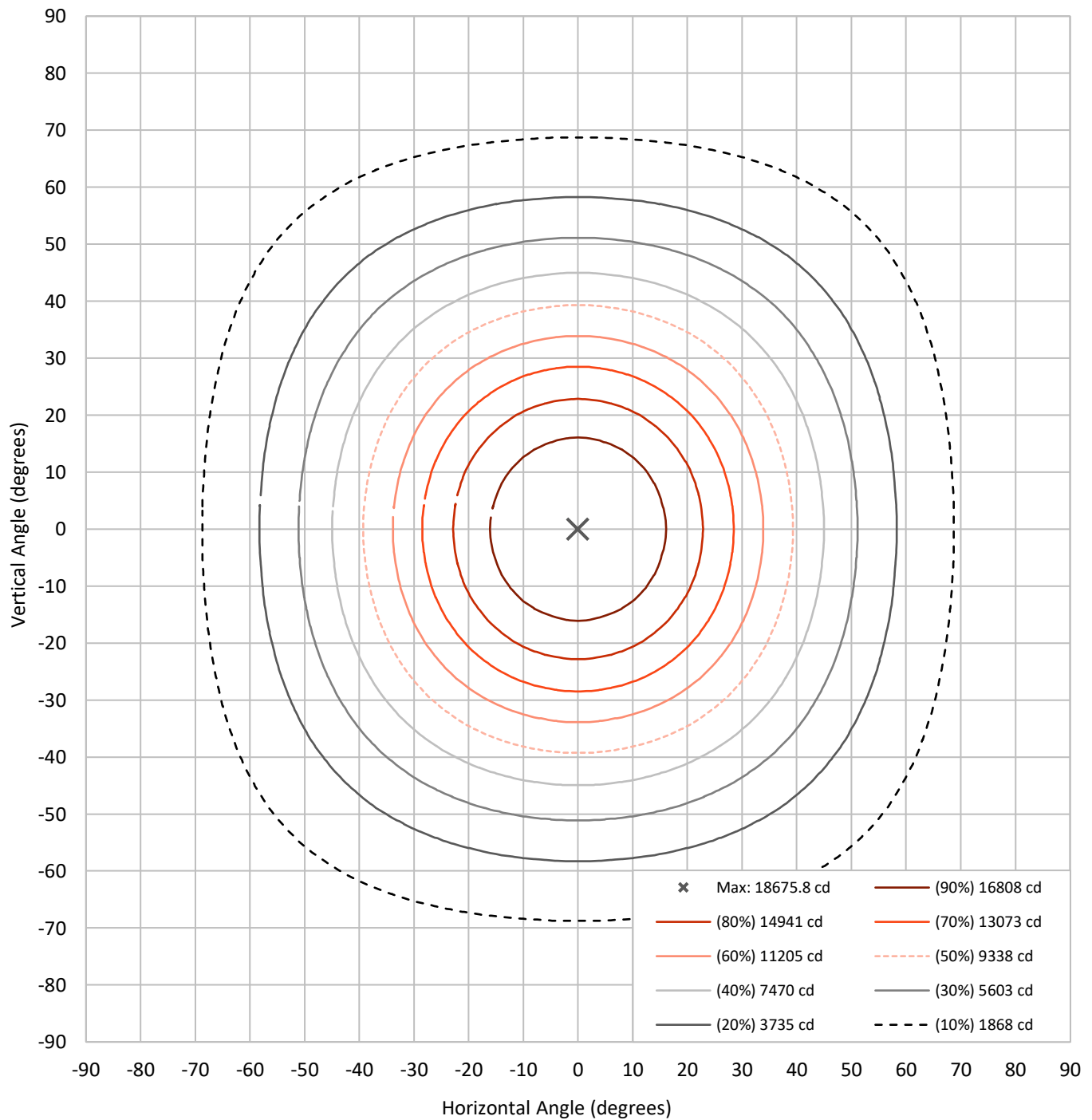
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33626.3 lumens	Max Intensity:	18675.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	79.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14549.8 lumens	Field Lumens:	23824.7 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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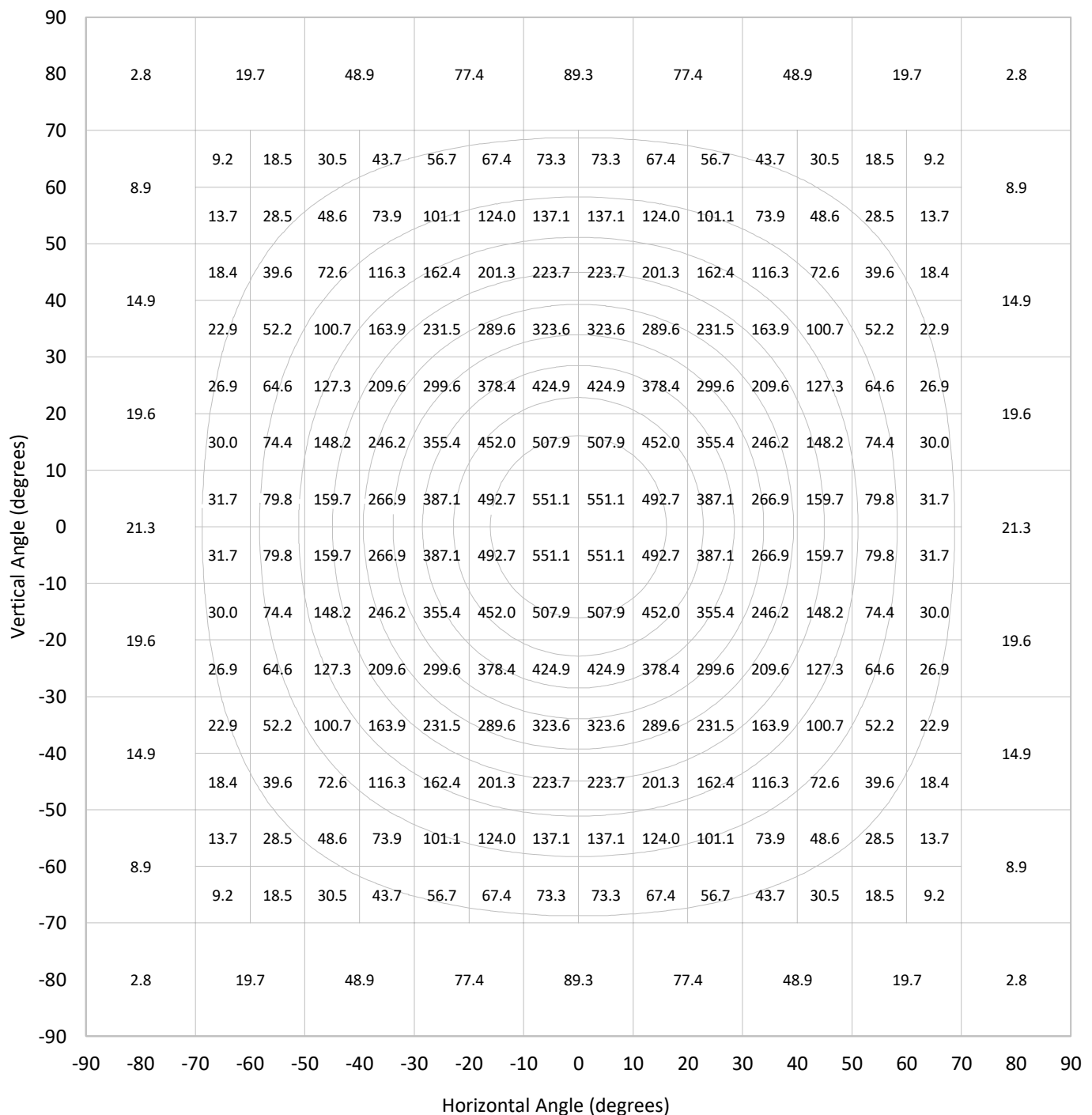
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Iso-Candela Plot



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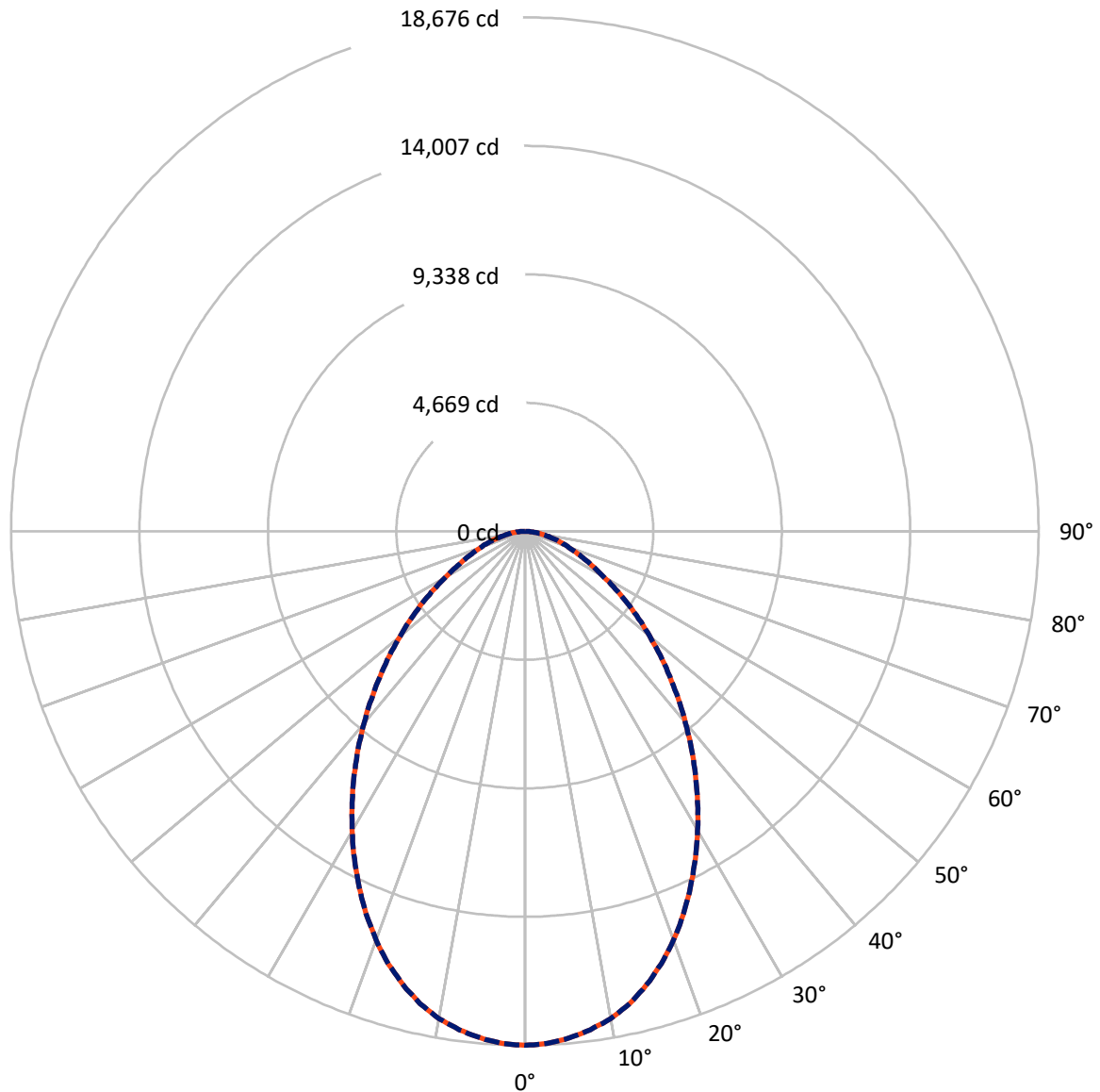
Lumen Table



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Luminous Intensity Polar Plot

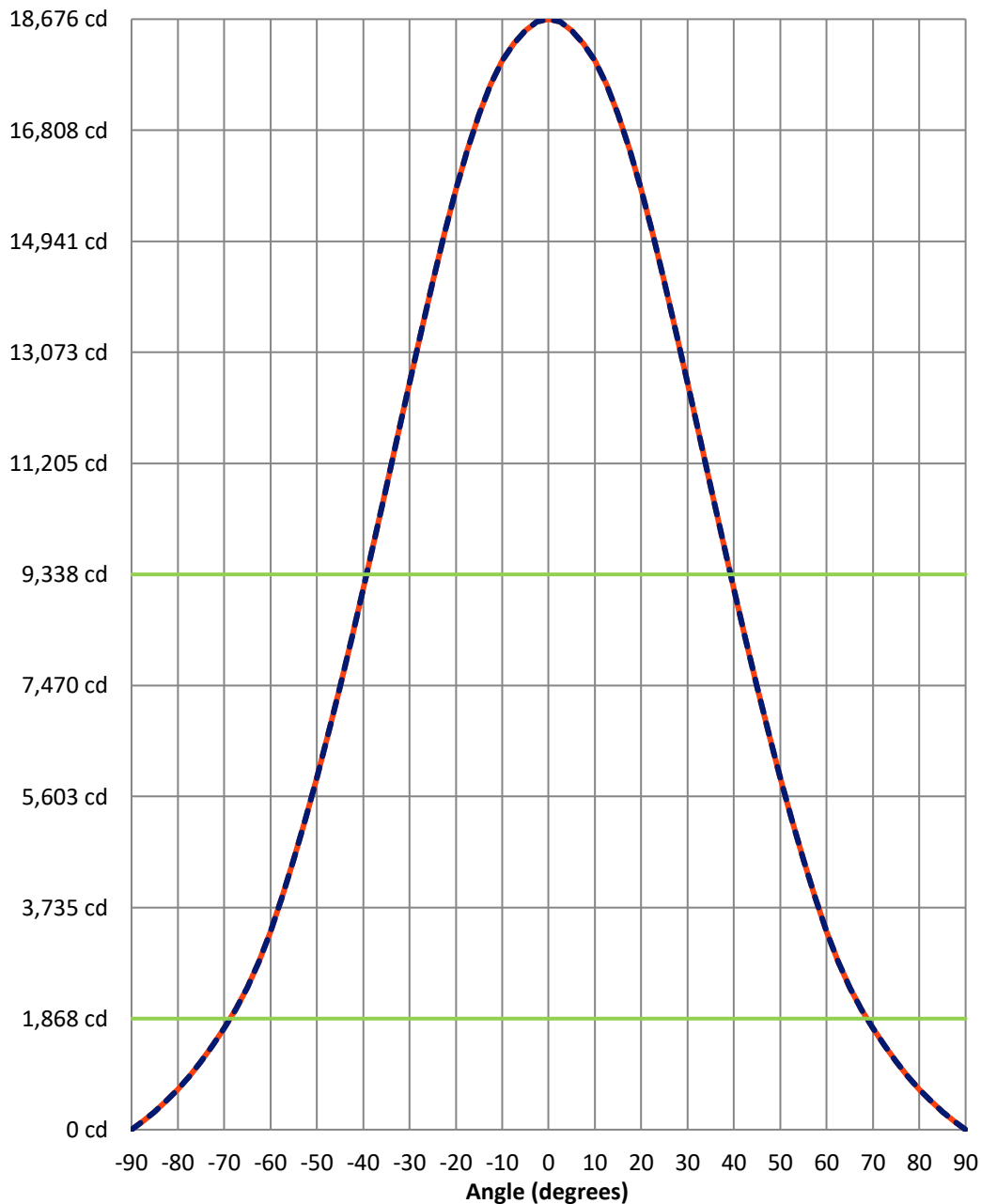


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14549.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 23824.7
Efficiency: 70.9%

Spill:

Lumens: 9801.5
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°	143.7	143.7	143.7	143.7	143.7	143.7	143.7	136.7	136.7	133.2	129.7
85°	301.5	301.5	301.5	301.5	301.5	294.5	291.0	287.5	284.0	277.0	273.5
82.5°	483.8	483.8	483.8	483.8	476.8	469.8	466.3	459.3	452.3	441.7	431.2
80°	676.6	676.6	676.6	676.6	666.1	659.1	648.6	641.6	631.1	617.0	603.0
77.5°	897.5	897.5	897.5	887.0	880.0	869.5	858.9	844.9	830.9	813.4	792.3
75°	1146.4	1146.4	1146.4	1132.4	1121.9	1111.4	1093.8	1076.3	1055.3	1030.7	1002.7
72.5°	1416.4	1416.4	1416.4	1398.8	1388.3	1370.8	1349.8	1325.2	1300.7	1269.1	1234.1
70°	1707.4	1707.4	1707.4	1686.3	1668.8	1651.3	1623.2	1595.2	1560.1	1525.1	1483.0
67.5°	2022.9	2022.9	2022.9	1998.4	1977.3	1952.8	1921.2	1886.2	1844.1	1795.0	1745.9
65°	2391.0	2391.0	2377.0	2356.0	2331.4	2296.4	2257.8	2208.7	2156.1	2093.0	2026.4
62.5°	2825.7	2825.7	2804.7	2780.2	2748.6	2703.0	2650.4	2587.3	2513.7	2433.1	2352.4
60°	3330.6	3330.6	3306.0	3274.5	3228.9	3172.8	3102.7	3022.1	2930.9	2829.2	2731.1
57.5°	3912.6	3912.6	3881.0	3838.9	3782.8	3712.7	3625.1	3523.4	3407.7	3281.5	3158.8
55°	4543.6	4543.6	4505.1	4456.0	4389.4	4305.2	4200.0	4080.8	3940.6	3796.9	3639.1
52.5°	5213.2	5213.2	5167.7	5111.6	5034.4	4936.3	4817.1	4676.8	4515.6	4347.3	4161.5
50°	5917.9	5917.9	5865.3	5802.2	5714.6	5598.9	5462.2	5300.9	5122.1	4925.8	4711.9
47.5°	6671.7	6671.7	6612.1	6538.5	6433.3	6300.1	6138.8	5953.0	5749.6	5528.8	5286.9
45°	7446.5	7446.5	7379.9	7295.7	7180.0	7029.3	6850.5	6671.7	6412.3	6156.3	5875.9
42.5°	8252.8	8252.8	8175.7	8081.1	7947.8	7783.1	7579.7	7348.3	7092.4	6804.9	6499.9
40°	9090.8	9090.8	9003.1	8894.4	8747.2	8557.9	8330.0	8070.5	7783.1	7464.0	7127.5
37.5°	9946.2	9946.2	9848.0	9728.8	9564.0	9353.7	9097.8	8810.3	8487.7	8133.6	7762.0
35°	10808.6	10808.6	10700.0	10570.2	10387.9	10156.5	9879.6	9560.5	9202.9	8817.3	8400.1
32.5°	11688.6	11688.6	11569.4	11422.2	11215.3	10959.4	10654.4	10307.3	9946.2	9497.4	9041.7
30°	12558.1	12558.1	12428.4	12267.1	12046.2	11765.7	11432.7	11050.5	10626.3	10167.1	9676.2
27.5°	13413.5	13378.4	13269.8	13098.0	12856.1	12558.1	12197.0	11783.3	11324.0	10819.2	10293.3
25°	14254.9	14216.4	14097.2	13907.8	13648.4	13322.4	12933.2	12491.5	11997.1	11464.2	10889.3
22.5°	15061.3	15019.2	14893.0	14689.6	14412.7	14058.6	13641.4	13168.1	12642.2	12070.8	11464.2
20°	15808.0	15762.4	15632.7	15418.9	15131.4	14756.3	14314.5	13806.2	13245.2	12642.2	11997.1
17.5°	16481.2	16435.6	16298.8	16078.0	15808.0	15390.8	14935.1	14398.7	13806.2	13168.1	12491.5
15°	17073.6	17024.6	16884.3	16663.5	16354.9	15962.3	15482.0	14935.1	14314.5	13641.4	12933.2
12.5°	17578.5	17529.4	17385.7	17164.8	16845.8	16453.1	15962.3	15390.8	14756.3	14058.6	13322.4
10°	17978.2	17929.1	17792.4	17582.0	17252.4	16845.8	16354.9	15808.0	15131.4	14412.7	13648.4
7.5°	18265.6	18220.1	18093.9	17883.5	17582.0	17164.8	16663.5	16078.0	15418.9	14689.6	13907.8
5°	18483.0	18430.4	18304.2	18093.9	17792.4	17385.7	16884.3	16298.8	15632.7	14893.0	14097.2
2.5°	18633.8	18570.7	18430.4	18220.1	17929.1	17529.4	17024.6	16435.6	15762.4	15019.2	14216.4
0°	18675.8	18633.8	18483.0	18265.6	17978.2	17578.5	17073.6	16481.2	15808.0	15061.3	14254.9

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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°	126.2	126.2	122.7	119.2	115.7	108.7	105.2	101.7	98.2	91.2	87.6
85°	266.4	259.4	252.4	245.4	234.9	227.9	217.4	210.4	199.8	189.3	178.8
82.5°	420.7	410.2	396.2	385.6	371.6	354.1	340.1	322.5	305.0	291.0	273.5
80°	589.0	571.5	553.9	536.4	515.4	494.3	473.3	452.3	427.7	403.2	378.6
77.5°	771.3	746.8	722.2	694.2	669.6	641.6	613.5	585.5	553.9	522.4	490.8
75°	974.6	943.1	908.0	873.0	841.4	802.8	764.3	725.7	683.6	645.1	603.0
72.5°	1195.5	1156.9	1114.9	1072.8	1027.2	978.1	929.1	876.5	827.4	778.3	725.7
70°	1433.9	1388.3	1335.7	1283.2	1227.1	1167.5	1107.9	1044.8	981.6	918.5	855.4
67.5°	1689.8	1633.7	1570.6	1507.5	1437.4	1367.3	1297.2	1223.6	1146.4	1069.3	995.7
65°	1963.3	1893.2	1819.6	1738.9	1658.3	1577.6	1493.5	1405.9	1318.2	1227.1	1146.4
62.5°	2268.3	2180.7	2086.0	1987.8	1896.7	1798.5	1707.4	1598.7	1493.5	1391.8	1290.2
60°	2622.4	2506.7	2391.0	2268.3	2152.6	2026.4	1914.2	1795.0	1675.8	1560.1	1440.9
57.5°	3018.6	2871.3	2731.1	2583.8	2429.6	2289.3	2145.6	2001.9	1868.6	1731.9	1602.2
55°	3467.3	3288.5	3113.2	2930.9	2752.1	2576.8	2394.5	2233.2	2068.5	1914.2	1763.5
52.5°	3958.1	3754.8	3537.4	3330.6	3102.7	2885.3	2682.0	2478.7	2285.8	2100.0	1928.2
50°	4484.0	4245.6	3996.7	3744.3	3484.8	3228.9	2983.5	2745.1	2520.7	2303.4	2100.0
47.5°	5030.9	4761.0	4477.0	4189.5	3912.6	3600.5	3306.0	3036.1	2766.1	2520.7	2285.8
45°	5591.9	5286.9	4974.8	4648.8	4322.8	3986.2	3660.1	3330.6	3036.1	2745.1	2478.7
42.5°	6170.4	5826.8	5479.7	5118.6	4757.5	4389.4	4021.2	3660.1	3306.0	2983.5	2682.0
40°	6766.4	6387.7	5991.6	5598.9	5213.2	4792.5	4389.4	3986.2	3600.5	3228.9	2885.3
37.5°	7362.4	6948.7	6520.9	6079.2	5637.5	5213.2	4757.5	4322.8	3912.6	3484.8	3102.7
35°	7961.9	7506.1	7043.3	6563.0	6079.2	5598.9	5118.6	4648.8	4189.5	3744.3	3330.6
32.5°	8564.9	8067.0	7555.2	7043.3	6520.9	5991.6	5479.7	4974.8	4477.0	3996.7	3537.4
30°	9157.4	8617.5	8067.0	7506.1	6948.7	6387.7	5826.8	5286.9	4761.0	4245.6	3754.8
27.5°	9735.8	9157.4	8564.9	7961.9	7362.4	6766.4	6170.4	5591.9	5030.9	4484.0	3958.1
25°	10293.3	9676.2	9041.7	8400.1	7762.0	7127.5	6499.9	5875.9	5286.9	4711.9	4161.5
22.5°	10819.2	10167.1	9497.4	8817.3	8133.6	7464.0	6804.9	6156.3	5528.8	4925.8	4347.3
20°	11324.0	10626.3	9946.2	9202.9	8487.7	7783.1	7092.4	6412.3	5749.6	5122.1	4515.6
17.5°	11783.3	11050.5	10307.3	9560.5	8810.3	8070.5	7348.3	6671.7	5953.0	5300.9	4676.8
15°	12197.0	11432.7	10654.4	9879.6	9097.8	8330.0	7579.7	6850.5	6138.8	5462.2	4817.1
12.5°	12558.1	11765.7	10959.4	10156.5	9353.7	8557.9	7783.1	7029.3	6300.1	5598.9	4936.3
10°	12856.1	12046.2	11215.3	10387.9	9564.0	8747.2	7947.8	7180.0	6433.3	5714.6	5034.4
7.5°	13098.0	12267.1	11422.2	10570.2	9728.8	8894.4	8081.1	7295.7	6538.5	5802.2	5111.6
5°	13269.8	12428.4	11569.4	10700.0	9848.0	9003.1	8175.7	7379.9	6612.1	5865.3	5167.7
2.5°	13378.4	12558.1	11688.6	10808.6	9946.2	9090.8	8252.8	7446.5	6671.7	5917.9	5213.2
0°	13413.5	12558.1	11688.6	10808.6	9946.2	9090.8	8252.8	7446.5	6671.7	5917.9	5213.2

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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°	84.1	77.1	70.1	66.6	59.6	56.1	49.1	42.1	38.6	31.6	24.5
85°	168.3	154.3	143.7	133.2	122.7	108.7	98.2	87.6	73.6	63.1	49.1
82.5°	255.9	238.4	220.9	203.3	185.8	168.3	147.2	129.7	112.2	94.7	73.6
80°	354.1	326.0	301.5	277.0	252.4	227.9	199.8	175.3	147.2	122.7	98.2
77.5°	455.8	424.2	389.2	354.1	319.0	287.5	252.4	220.9	189.3	154.3	122.7
75°	564.4	522.4	483.8	438.2	396.2	350.6	308.5	266.4	227.9	189.3	147.2
72.5°	676.6	624.0	571.5	522.4	469.8	417.2	368.1	315.5	266.4	220.9	175.3
70°	792.3	729.2	666.1	606.5	546.9	483.8	427.7	368.1	308.5	252.4	199.8
67.5°	915.0	841.4	767.8	690.7	624.0	553.9	483.8	417.2	350.6	287.5	227.9
65°	1048.3	960.6	869.5	788.8	701.2	624.0	546.9	469.8	396.2	319.0	252.4
62.5°	1185.0	1083.3	981.6	880.0	788.8	690.7	606.5	522.4	438.2	354.1	277.0
60°	1325.2	1209.5	1093.8	981.6	869.5	767.8	666.1	571.5	483.8	389.2	301.5
57.5°	1469.0	1339.2	1209.5	1083.3	960.6	841.4	729.2	624.0	522.4	424.2	326.0
55°	1616.2	1469.0	1325.2	1185.0	1048.3	915.0	792.3	676.6	564.4	455.8	354.1
52.5°	1763.5	1602.2	1440.9	1290.2	1146.4	995.7	855.4	725.7	603.0	490.8	378.6
50°	1914.2	1731.9	1560.1	1391.8	1227.1	1069.3	918.5	778.3	645.1	522.4	403.2
47.5°	2068.5	1868.6	1675.8	1493.5	1318.2	1146.4	981.6	827.4	683.6	553.9	427.7
45°	2233.2	2001.9	1795.0	1598.7	1405.9	1223.6	1044.8	876.5	725.7	585.5	452.3
42.5°	2394.5	2145.6	1914.2	1707.4	1493.5	1297.2	1107.9	929.1	764.3	613.5	473.3
40°	2576.8	2289.3	2026.4	1798.5	1577.6	1367.3	1167.5	978.1	802.8	641.6	494.3
37.5°	2752.1	2429.6	2152.6	1896.7	1658.3	1437.4	1227.1	1027.2	841.4	669.6	515.4
35°	2930.9	2583.8	2268.3	1987.8	1738.9	1507.5	1283.2	1072.8	873.0	694.2	536.4
32.5°	3113.2	2731.1	2391.0	2086.0	1819.6	1570.6	1335.7	1114.9	908.0	722.2	553.9
30°	3288.5	2871.3	2506.7	2180.7	1893.2	1633.7	1388.3	1156.9	943.1	746.8	571.5
27.5°	3467.3	3018.6	2622.4	2268.3	1963.3	1689.8	1433.9	1195.5	974.6	771.3	589.0
25°	3639.1	3158.8	2731.1	2352.4	2026.4	1745.9	1483.0	1234.1	1002.7	792.3	603.0
22.5°	3796.9	3281.5	2829.2	2433.1	2093.0	1795.0	1525.1	1269.1	1030.7	813.4	617.0
20°	3940.6	3407.7	2930.9	2513.7	2156.1	1844.1	1560.1	1300.7	1055.3	830.9	631.1
17.5°	4080.8	3523.4	3022.1	2587.3	2208.7	1886.2	1595.2	1325.2	1076.3	844.9	641.6
15°	4200.0	3625.1	3102.7	2650.4	2257.8	1921.2	1623.2	1349.8	1093.8	858.9	648.6
12.5°	4305.2	3712.7	3172.8	2703.0	2296.4	1952.8	1651.3	1370.8	1111.4	869.5	659.1
10°	4389.4	3782.8	3228.9	2748.6	2331.4	1977.3	1668.8	1388.3	1121.9	880.0	666.1
7.5°	4456.0	3838.9	3274.5	2780.2	2356.0	1998.4	1686.3	1398.8	1132.4	887.0	676.6
5°	4505.1	3881.0	3306.0	2804.7	2377.0	2022.9	1707.4	1416.4	1146.4	897.5	676.6
2.5°	4543.6	3912.6	3330.6	2825.7	2391.0	2022.9	1707.4	1416.4	1146.4	897.5	676.6
0°	4543.6	3912.6	3330.6	2825.7	2391.0	2022.9	1707.4	1416.4	1146.4	897.5	676.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.5	14.0	7.0	0.0
85°	38.6	24.5	14.0	0.0
82.5°	56.1	38.6	17.5	0.0
80°	73.6	49.1	24.5	0.0
77.5°	94.7	63.1	31.6	0.0
75°	112.2	73.6	38.6	0.0
72.5°	129.7	87.6	42.1	0.0
70°	147.2	98.2	49.1	0.0
67.5°	168.3	108.7	56.1	0.0
65°	185.8	122.7	59.6	0.0
62.5°	203.3	133.2	66.6	0.0
60°	220.9	143.7	70.1	0.0
57.5°	238.4	154.3	77.1	0.0
55°	255.9	168.3	84.1	0.0
52.5°	273.5	178.8	87.6	0.0
50°	291.0	189.3	91.2	0.0
47.5°	305.0	199.8	98.2	0.0
45°	322.5	210.4	101.7	0.0
42.5°	340.1	217.4	105.2	0.0
40°	354.1	227.9	108.7	0.0
37.5°	371.6	234.9	115.7	0.0
35°	385.6	245.4	119.2	0.0
32.5°	396.2	252.4	122.7	0.0
30°	410.2	259.4	126.2	0.0
27.5°	420.7	266.4	126.2	0.0
25°	431.2	273.5	129.7	0.0
22.5°	441.7	277.0	133.2	0.0
20°	452.3	284.0	136.7	0.0
17.5°	459.3	287.5	136.7	0.0
15°	466.3	291.0	143.7	0.0
12.5°	469.8	294.5	143.7	0.0
10°	476.8	301.5	143.7	0.0
7.5°	483.8	301.5	143.7	0.0
5°	483.8	301.5	143.7	0.0
2.5°	483.8	301.5	143.7	0.0
0°	483.8	301.5	143.7	0.0

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