

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: P623938

Luminaire Tested: **IFLD-S-SA6B-740-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623938
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

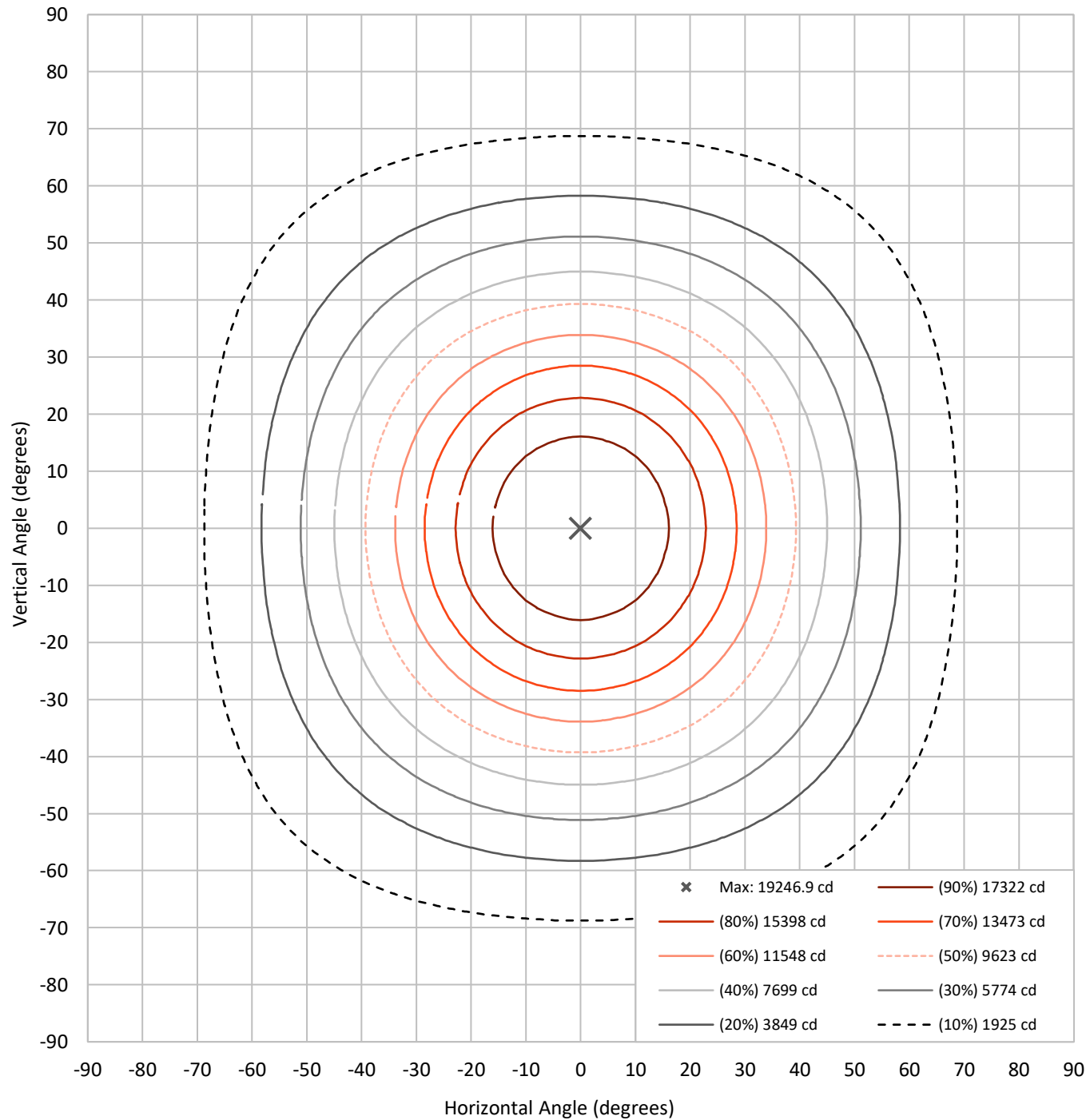
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34654.4 lumens	Max Intensity:	19246.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14994.6 lumens	Field Lumens:	24553.2 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	244.9		
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		





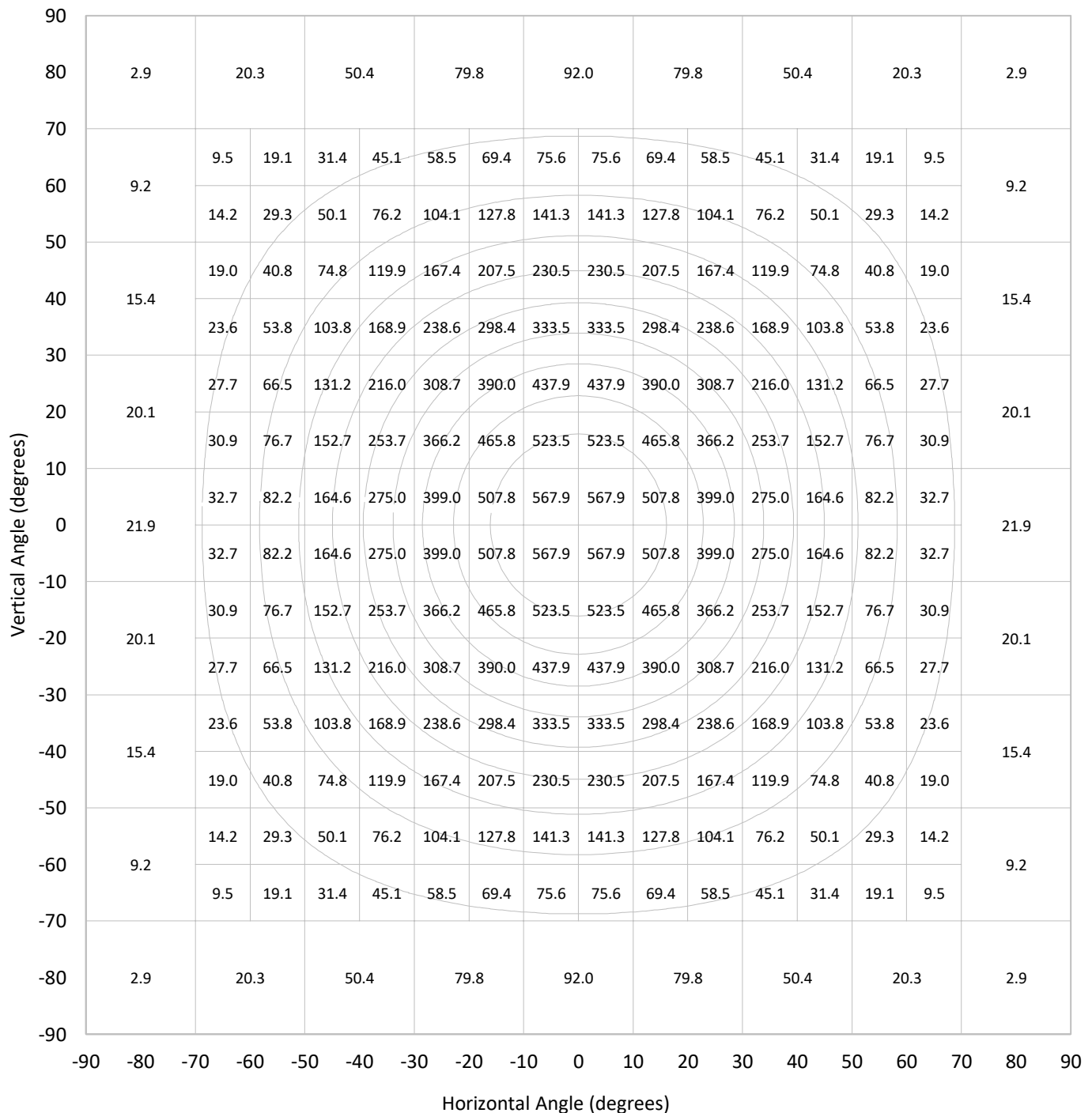
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Iso-Candela Plot



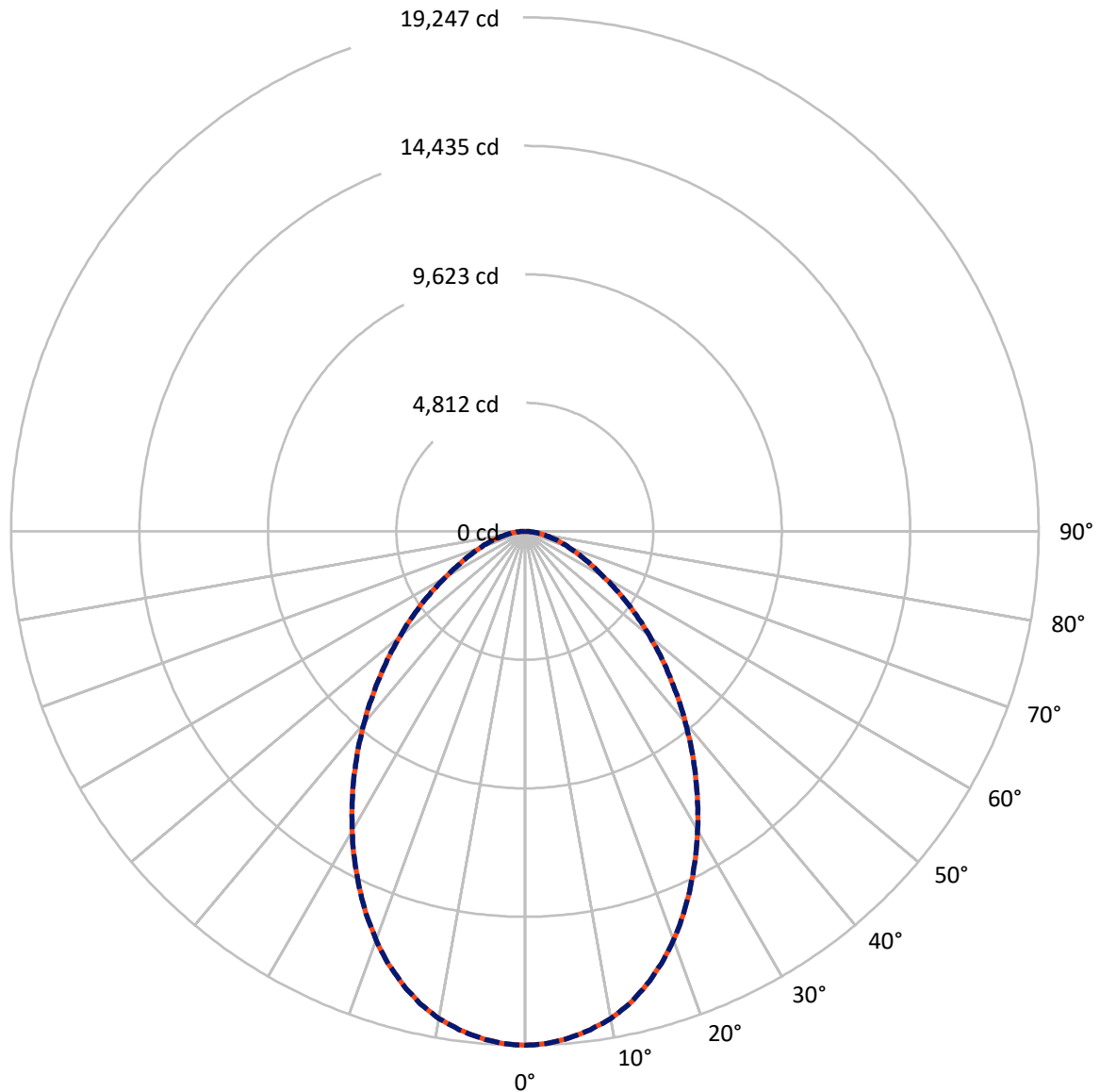
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Lumen Table



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Luminous Intensity Polar Plot

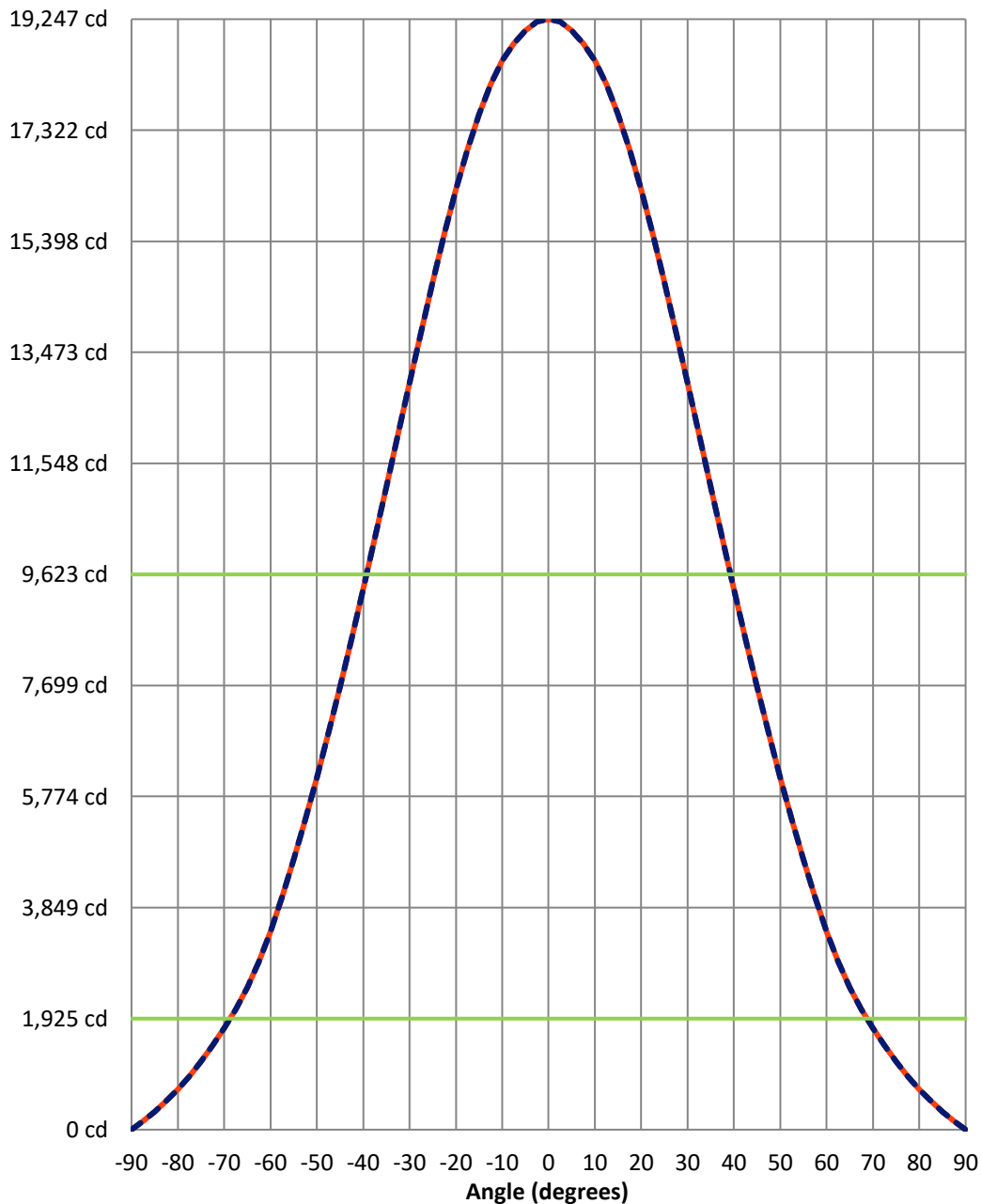


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 14994.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 24553.2
Efficiency: 70.9%

Spill:

Lumens: 10101.2
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°	148.1	148.1	148.1	148.1	148.1	148.1	148.1	140.9	140.9	137.3	133.7
85°	310.7	310.7	310.7	310.7	310.7	303.5	299.9	296.3	292.7	285.4	281.8
82.5°	498.6	498.6	498.6	498.6	491.4	484.2	480.5	473.3	466.1	455.2	444.4
80°	697.3	697.3	697.3	697.3	686.5	679.3	668.4	661.2	650.4	635.9	621.5
77.5°	924.9	924.9	924.9	914.1	906.9	896.0	885.2	870.8	856.3	838.2	816.6
75°	1181.5	1181.5	1181.5	1167.0	1156.2	1145.3	1127.3	1109.2	1087.5	1062.2	1033.3
72.5°	1459.7	1459.7	1459.7	1441.6	1430.8	1412.7	1391.0	1365.7	1340.5	1307.9	1271.8
70°	1759.6	1759.6	1759.6	1737.9	1719.8	1701.8	1672.9	1644.0	1607.8	1571.7	1528.3
67.5°	2084.7	2084.7	2084.7	2059.5	2037.8	2012.5	1980.0	1943.8	1900.5	1849.9	1799.3
65°	2464.1	2464.1	2449.7	2428.0	2402.7	2366.6	2326.8	2276.2	2222.0	2157.0	2088.4
62.5°	2912.1	2912.1	2890.5	2865.2	2832.7	2785.7	2731.5	2666.5	2590.6	2507.5	2424.4
60°	3432.4	3432.4	3407.1	3374.6	3327.6	3269.8	3197.6	3114.5	3020.5	2915.8	2814.6
57.5°	4032.2	4032.2	3999.7	3956.3	3898.5	3826.3	3735.9	3631.1	3511.9	3381.8	3255.4
55°	4682.6	4682.6	4642.8	4592.2	4523.6	4436.9	4328.5	4205.6	4061.1	3913.0	3750.4
52.5°	5372.7	5372.7	5325.7	5267.9	5188.4	5087.2	4964.4	4819.9	4653.6	4480.2	4288.7
50°	6098.9	6098.9	6044.7	5979.7	5889.3	5770.1	5629.2	5463.0	5278.7	5076.4	4856.0
47.5°	6875.7	6875.7	6814.3	6738.4	6630.0	6492.7	6326.5	6135.0	5925.5	5697.8	5448.5
45°	7674.2	7674.2	7605.5	7518.8	7399.6	7244.2	7060.0	6875.7	6608.3	6344.6	6055.5
42.5°	8505.2	8505.2	8425.7	8328.2	8190.9	8021.0	7811.5	7573.0	7309.3	7013.0	6698.7
40°	9368.7	9368.7	9278.4	9166.4	9014.6	8819.5	8584.7	8317.3	8021.0	7692.3	7345.4
37.5°	10250.3	10250.3	10149.1	10026.3	9856.5	9639.7	9375.9	9079.7	8747.3	8382.3	7999.4
35°	11139.1	11139.1	11027.1	10893.4	10705.6	10467.1	10181.7	9852.9	9484.3	9086.9	8656.9
32.5°	12046.0	12046.0	11923.2	11771.4	11558.2	11294.5	10980.2	10622.5	10250.3	9787.8	9318.1
30°	12942.1	12942.1	12808.4	12642.2	12414.5	12125.5	11782.3	11388.4	10951.3	10477.9	9972.1
27.5°	13823.7	13787.5	13675.5	13498.5	13249.2	12942.1	12569.9	12143.6	11670.3	11150.0	10608.0
25°	14690.8	14651.0	14528.2	14333.1	14065.7	13729.7	13328.7	12873.4	12364.0	11814.8	11222.2
22.5°	15521.8	15478.4	15348.4	15138.8	14853.4	14488.5	14058.5	13570.7	13028.8	12439.8	11814.8
20°	16291.4	16244.4	16110.7	15890.3	15594.1	15207.5	14752.2	14228.3	13650.2	13028.8	12364.0
17.5°	16985.1	16938.1	16797.2	16569.6	16291.4	15861.4	15391.7	14838.9	14228.3	13570.7	12873.4
15°	17595.7	17545.1	17400.6	17173.0	16855.0	16450.4	15955.4	15391.7	14752.2	14058.5	13328.7
12.5°	18116.0	18065.4	17917.3	17689.6	17360.9	16956.2	16450.4	15861.4	15207.5	14488.5	13729.7
10°	18527.9	18477.3	18336.4	18119.6	17780.0	17360.9	16855.0	16291.4	15594.1	14853.4	14065.7
7.5°	18824.2	18777.2	18647.1	18430.3	18119.6	17689.6	17173.0	16569.6	15890.3	15138.8	14333.1
5°	19048.2	18994.0	18863.9	18647.1	18336.4	17917.3	17400.6	16797.2	16110.7	15348.4	14528.2
2.5°	19203.5	19138.5	18994.0	18777.2	18477.3	18065.4	17545.1	16938.1	16244.4	15478.4	14651.0
0°	19246.9	19203.5	19048.2	18824.2	18527.9	18116.0	17595.7	16985.1	16291.4	15521.8	14690.8

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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°	130.1	130.1	126.5	122.8	119.2	112.0	108.4	104.8	101.2	93.9	90.3
85°	274.6	267.4	260.1	252.9	242.1	234.9	224.0	216.8	205.9	195.1	184.3
82.5°	433.6	422.7	408.3	397.4	383.0	364.9	350.5	332.4	314.3	299.9	281.8
80°	607.0	588.9	570.9	552.8	531.1	509.4	487.8	466.1	440.8	415.5	390.2
77.5°	794.9	769.6	744.3	715.4	690.1	661.2	632.3	603.4	570.9	538.3	505.8
75°	1004.4	971.9	935.8	899.7	867.1	827.4	787.7	747.9	704.6	664.8	621.5
72.5°	1232.1	1192.3	1149.0	1105.6	1058.6	1008.0	957.5	903.3	852.7	802.1	747.9
70°	1477.8	1430.8	1376.6	1322.4	1264.6	1203.2	1141.7	1076.7	1011.7	946.6	881.6
67.5°	1741.5	1683.7	1618.7	1553.6	1481.4	1409.1	1336.8	1261.0	1181.5	1102.0	1026.1
65°	2023.3	1951.1	1875.2	1792.1	1709.0	1625.9	1539.2	1448.8	1358.5	1264.6	1181.5
62.5°	2337.7	2247.3	2149.8	2048.6	1954.7	1853.5	1759.6	1647.6	1539.2	1434.4	1329.6
60°	2702.6	2583.4	2464.1	2337.7	2218.4	2088.4	1972.7	1849.9	1727.1	1607.8	1485.0
57.5°	3110.9	2959.1	2814.6	2662.8	2503.9	2359.3	2211.2	2063.1	1925.8	1784.9	1651.2
55°	3573.3	3389.1	3208.4	3020.5	2836.3	2655.6	2467.7	2301.5	2131.7	1972.7	1817.4
52.5°	4079.2	3869.6	3645.6	3432.4	3197.6	2973.6	2764.0	2554.4	2355.7	2164.2	1987.2
50°	4621.1	4375.4	4118.9	3858.8	3591.4	3327.6	3074.7	2829.0	2597.8	2373.8	2164.2
47.5°	5184.8	4906.6	4613.9	4317.6	4032.2	3710.6	3407.1	3128.9	2850.7	2597.8	2355.7
45°	5762.9	5448.5	5127.0	4790.9	4454.9	4108.1	3772.1	3432.4	3128.9	2829.0	2554.4
42.5°	6359.0	6004.9	5647.2	5275.1	4903.0	4523.6	4144.2	3772.1	3407.1	3074.7	2764.0
40°	6973.2	6583.0	6174.8	5770.1	5372.7	4939.1	4523.6	4108.1	3710.6	3327.6	2973.6
37.5°	7587.5	7161.1	6720.3	6265.1	5809.8	5372.7	4903.0	4454.9	4032.2	3591.4	3197.6
35°	8205.3	7735.6	7258.7	6763.7	6265.1	5770.1	5275.1	4790.9	4317.6	3858.8	3432.4
32.5°	8826.8	8313.7	7786.2	7258.7	6720.3	6174.8	5647.2	5127.0	4613.9	4118.9	3645.6
30°	9437.4	8881.0	8313.7	7735.6	7161.1	6583.0	6004.9	5448.5	4906.6	4375.4	3869.6
27.5°	10033.5	9437.4	8826.8	8205.3	7587.5	6973.2	6359.0	5762.9	5184.8	4621.1	4079.2
25°	10608.0	9972.1	9318.1	8656.9	7999.4	7345.4	6698.7	6055.5	5448.5	4856.0	4288.7
22.5°	11150.0	10477.9	9787.8	9086.9	8382.3	7692.3	7013.0	6344.6	5697.8	5076.4	4480.2
20°	11670.3	10951.3	10250.3	9484.3	8747.3	8021.0	7309.3	6608.3	5925.5	5278.7	4653.6
17.5°	12143.6	11388.4	10622.5	9852.9	9079.7	8317.3	7573.0	6875.7	6135.0	5463.0	4819.9
15°	12569.9	11782.3	10980.2	10181.7	9375.9	8584.7	7811.5	7060.0	6326.5	5629.2	4964.4
12.5°	12942.1	12125.5	11294.5	10467.1	9639.7	8819.5	8021.0	7244.2	6492.7	5770.1	5087.2
10°	13249.2	12414.5	11558.2	10705.6	9856.5	9014.6	8190.9	7399.6	6630.0	5889.3	5188.4
7.5°	13498.5	12642.2	11771.4	10893.4	10026.3	9166.4	8328.2	7518.8	6738.4	5979.7	5267.9
5°	13675.5	12808.4	11923.2	11027.1	10149.1	9278.4	8425.7	7605.5	6814.3	6044.7	5325.7
2.5°	13787.5	12942.1	12046.0	11139.1	10250.3	9368.7	8505.2	7674.2	6875.7	6098.9	5372.7
0°	13823.7	12942.1	12046.0	11139.1	10250.3	9368.7	8505.2	7674.2	6875.7	6098.9	5372.7

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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°	86.7	79.5	72.3	68.6	61.4	57.8	50.6	43.4	39.7	32.5	25.3
85°	173.4	159.0	148.1	137.3	126.5	112.0	101.2	90.3	75.9	65.0	50.6
82.5°	263.8	245.7	227.6	209.6	191.5	173.4	151.7	133.7	115.6	97.6	75.9
80°	364.9	336.0	310.7	285.4	260.1	234.9	205.9	180.7	151.7	126.5	101.2
77.5°	469.7	437.2	401.1	364.9	328.8	296.3	260.1	227.6	195.1	159.0	126.5
75°	581.7	538.3	498.6	451.6	408.3	361.3	318.0	274.6	234.9	195.1	151.7
72.5°	697.3	643.1	588.9	538.3	484.2	430.0	379.4	325.2	274.6	227.6	180.7
70°	816.6	751.5	686.5	625.1	563.6	498.6	440.8	379.4	318.0	260.1	205.9
67.5°	943.0	867.1	791.3	711.8	643.1	570.9	498.6	430.0	361.3	296.3	234.9
65°	1080.3	990.0	896.0	812.9	722.6	643.1	563.6	484.2	408.3	328.8	260.1
62.5°	1221.2	1116.4	1011.7	906.9	812.9	711.8	625.1	538.3	451.6	364.9	285.4
60°	1365.7	1246.5	1127.3	1011.7	896.0	791.3	686.5	588.9	498.6	401.1	310.7
57.5°	1513.9	1380.2	1246.5	1116.4	990.0	867.1	751.5	643.1	538.3	437.2	336.0
55°	1665.6	1513.9	1365.7	1221.2	1080.3	943.0	816.6	697.3	581.7	469.7	364.9
52.5°	1817.4	1651.2	1485.0	1329.6	1181.5	1026.1	881.6	747.9	621.5	505.8	390.2
50°	1972.7	1784.9	1607.8	1434.4	1264.6	1102.0	946.6	802.1	664.8	538.3	415.5
47.5°	2131.7	1925.8	1727.1	1539.2	1358.5	1181.5	1011.7	852.7	704.6	570.9	440.8
45°	2301.5	2063.1	1849.9	1647.6	1448.8	1261.0	1076.7	903.3	747.9	603.4	466.1
42.5°	2467.7	2211.2	1972.7	1759.6	1539.2	1336.8	1141.7	957.5	787.7	632.3	487.8
40°	2655.6	2359.3	2088.4	1853.5	1625.9	1409.1	1203.2	1008.0	827.4	661.2	509.4
37.5°	2836.3	2503.9	2218.4	1954.7	1709.0	1481.4	1264.6	1058.6	867.1	690.1	531.1
35°	3020.5	2662.8	2337.7	2048.6	1792.1	1553.6	1322.4	1105.6	899.7	715.4	552.8
32.5°	3208.4	2814.6	2464.1	2149.8	1875.2	1618.7	1376.6	1149.0	935.8	744.3	570.9
30°	3389.1	2959.1	2583.4	2247.3	1951.1	1683.7	1430.8	1192.3	971.9	769.6	588.9
27.5°	3573.3	3110.9	2702.6	2337.7	2023.3	1741.5	1477.8	1232.1	1004.4	794.9	607.0
25°	3750.4	3255.4	2814.6	2424.4	2088.4	1799.3	1528.3	1271.8	1033.3	816.6	621.5
22.5°	3913.0	3381.8	2915.8	2507.5	2157.0	1849.9	1571.7	1307.9	1062.2	838.2	635.9
20°	4061.1	3511.9	3020.5	2590.6	2222.0	1900.5	1607.8	1340.5	1087.5	856.3	650.4
17.5°	4205.6	3631.1	3114.5	2666.5	2276.2	1943.8	1644.0	1365.7	1109.2	870.8	661.2
15°	4328.5	3735.9	3197.6	2731.5	2326.8	1980.0	1672.9	1391.0	1127.3	885.2	668.4
12.5°	4436.9	3826.3	3269.8	2785.7	2366.6	2012.5	1701.8	1412.7	1145.3	896.0	679.3
10°	4523.6	3898.5	3327.6	2832.7	2402.7	2037.8	1719.8	1430.8	1156.2	906.9	686.5
7.5°	4592.2	3956.3	3374.6	2865.2	2428.0	2059.5	1737.9	1441.6	1167.0	914.1	697.3
5°	4642.8	3999.7	3407.1	2890.5	2449.7	2084.7	1759.6	1459.7	1181.5	924.9	697.3
2.5°	4682.6	4032.2	3432.4	2912.1	2464.1	2084.7	1759.6	1459.7	1181.5	924.9	697.3
0°	4682.6	4032.2	3432.4	2912.1	2464.1	2084.7	1759.6	1459.7	1181.5	924.9	697.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.1	14.5	7.2	0.0
85°	39.7	25.3	14.5	0.0
82.5°	57.8	39.7	18.1	0.0
80°	75.9	50.6	25.3	0.0
77.5°	97.6	65.0	32.5	0.0
75°	115.6	75.9	39.7	0.0
72.5°	133.7	90.3	43.4	0.0
70°	151.7	101.2	50.6	0.0
67.5°	173.4	112.0	57.8	0.0
65°	191.5	126.5	61.4	0.0
62.5°	209.6	137.3	68.6	0.0
60°	227.6	148.1	72.3	0.0
57.5°	245.7	159.0	79.5	0.0
55°	263.8	173.4	86.7	0.0
52.5°	281.8	184.3	90.3	0.0
50°	299.9	195.1	93.9	0.0
47.5°	314.3	205.9	101.2	0.0
45°	332.4	216.8	104.8	0.0
42.5°	350.5	224.0	108.4	0.0
40°	364.9	234.9	112.0	0.0
37.5°	383.0	242.1	119.2	0.0
35°	397.4	252.9	122.8	0.0
32.5°	408.3	260.1	126.5	0.0
30°	422.7	267.4	130.1	0.0
27.5°	433.6	274.6	130.1	0.0
25°	444.4	281.8	133.7	0.0
22.5°	455.2	285.4	137.3	0.0
20°	466.1	292.7	140.9	0.0
17.5°	473.3	296.3	140.9	0.0
15°	480.5	299.9	148.1	0.0
12.5°	484.2	303.5	148.1	0.0
10°	491.4	310.7	148.1	0.0
7.5°	498.6	310.7	148.1	0.0
5°	498.6	310.7	148.1	0.0
2.5°	498.6	310.7	148.1	0.0
0°	498.6	310.7	148.1	0.0

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