

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: P623997

Luminaire Tested: **IFLD-S-SA6C-760-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623997
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-760-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

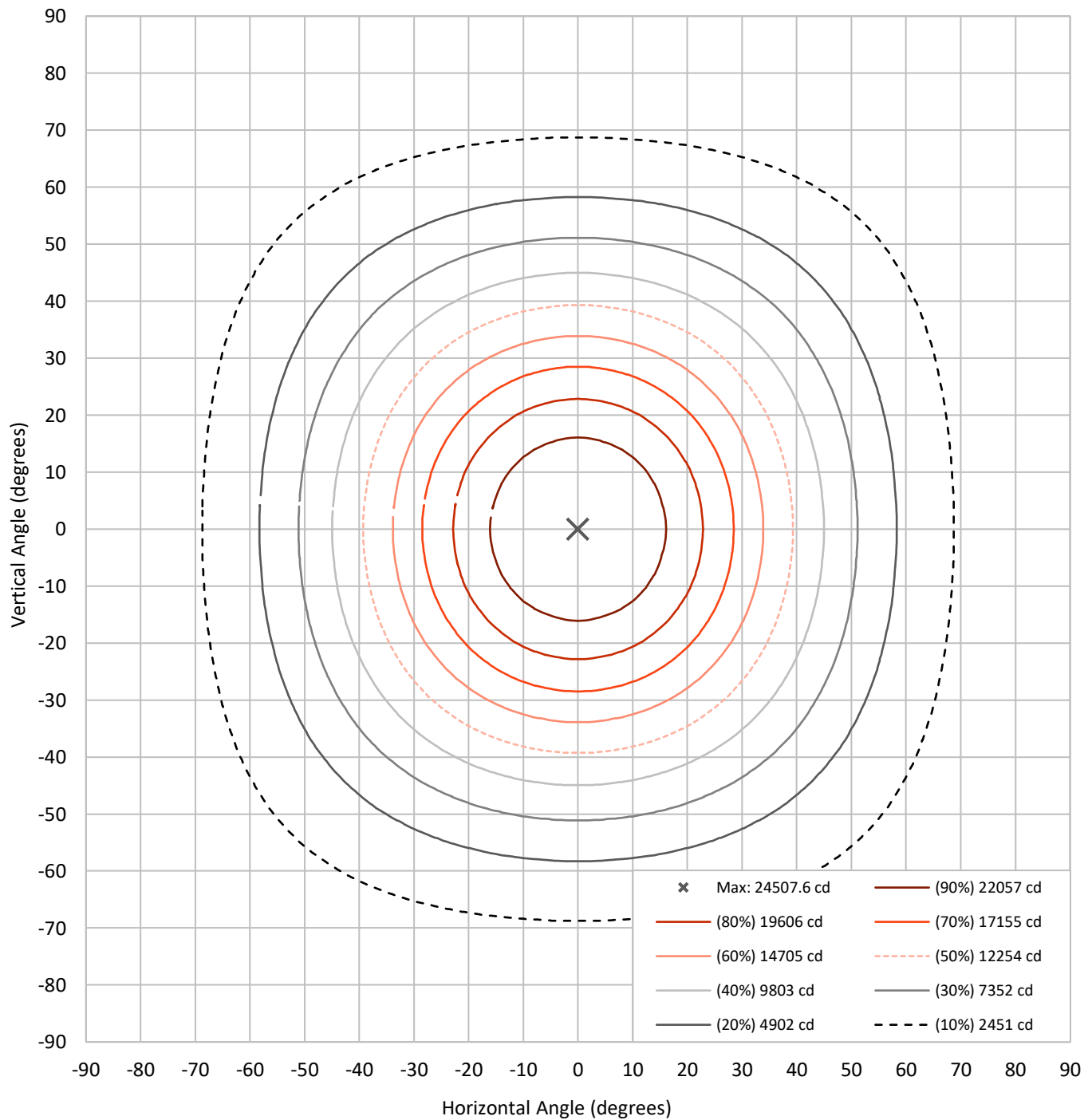
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	44126.6 lumens	Max Intensity:	24507.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	137.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	19093.1 lumens	Field Lumens:	31264.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	321.5		
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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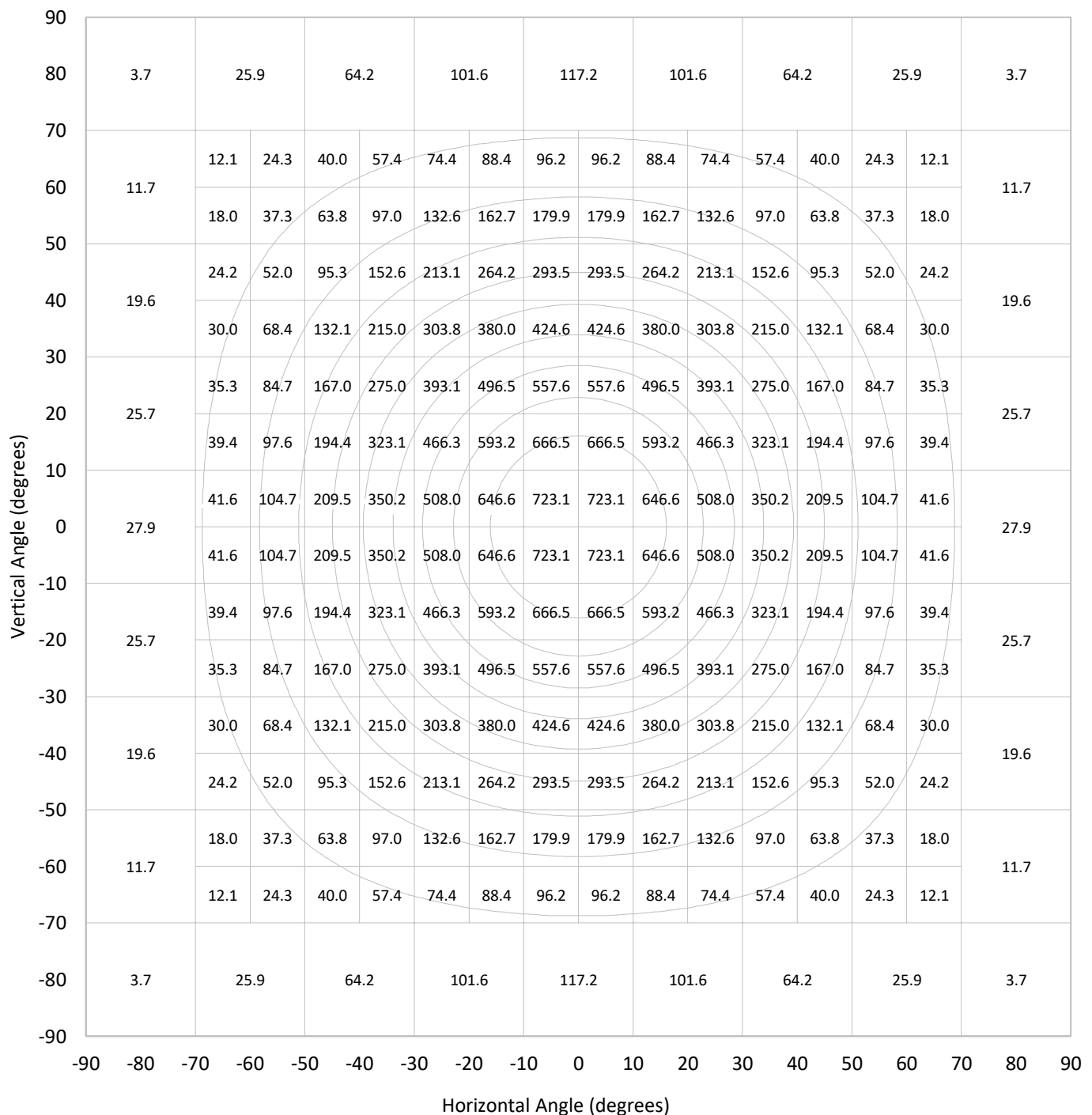
Iso-Candela Plot



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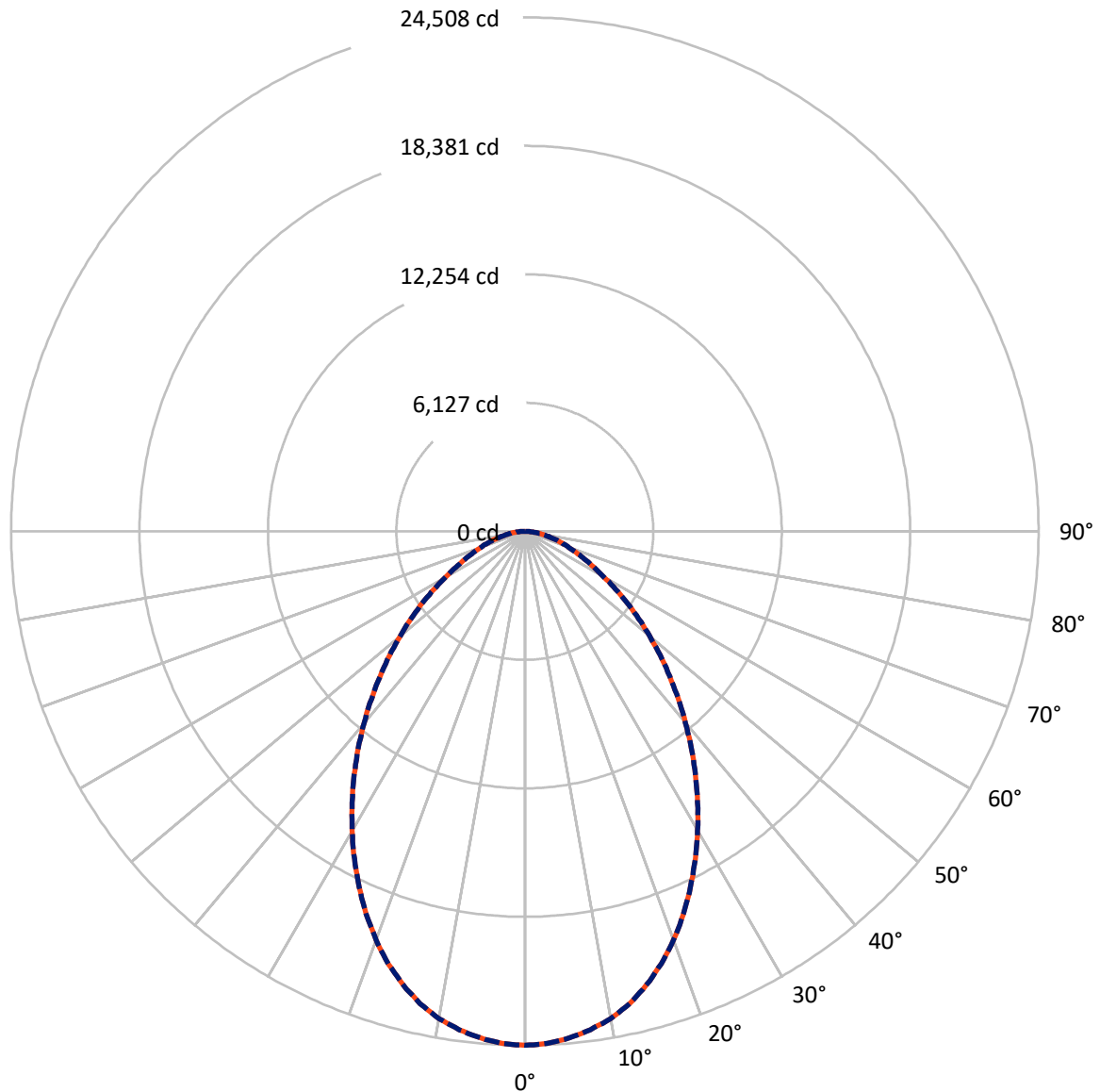
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Lumen Table



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Luminous Intensity Polar Plot

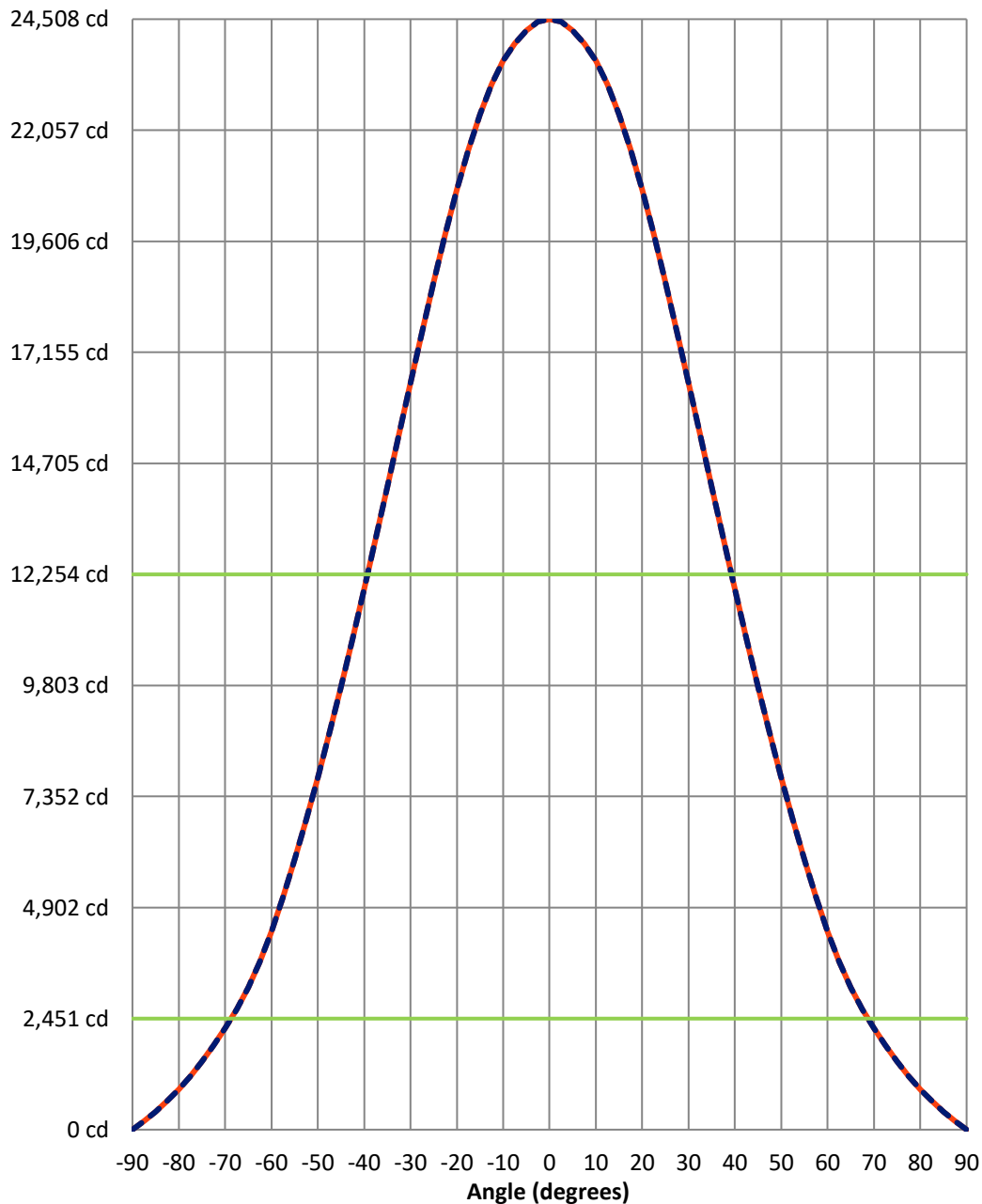


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 19093.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 31264.3
Efficiency: 70.9%

Spill:

Lumens: 12862.2
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°	188.6	188.6	188.6	188.6	188.6	188.6	188.6	179.4	179.4	174.8	170.2
85°	395.7	395.7	395.7	395.7	395.7	386.5	381.9	377.3	372.7	363.5	358.9
82.5°	634.9	634.9	634.9	634.9	625.7	616.5	611.9	602.7	593.5	579.7	565.9
80°	887.9	887.9	887.9	887.9	874.1	864.9	851.1	841.9	828.1	809.7	791.3
77.5°	1177.8	1177.8	1177.8	1164.0	1154.8	1141.0	1127.2	1108.8	1090.4	1067.4	1039.7
75°	1504.4	1504.4	1504.4	1486.0	1472.2	1458.4	1435.4	1412.4	1384.8	1352.6	1315.8
72.5°	1858.7	1858.7	1858.7	1835.7	1821.9	1798.9	1771.2	1739.0	1706.8	1665.4	1619.4
70°	2240.5	2240.5	2240.5	2212.9	2189.9	2166.9	2130.1	2093.3	2047.3	2001.3	1946.1
67.5°	2654.6	2654.6	2654.6	2622.4	2594.8	2562.6	2521.2	2475.1	2419.9	2355.5	2291.1
65°	3137.6	3137.6	3119.2	3091.6	3059.4	3013.4	2962.8	2898.4	2829.4	2746.6	2659.2
62.5°	3708.1	3708.1	3680.5	3648.3	3606.9	3547.1	3478.1	3395.3	3298.7	3192.8	3087.0
60°	4370.6	4370.6	4338.4	4297.0	4237.2	4163.6	4071.6	3965.8	3846.1	3712.7	3583.9
57.5°	5134.3	5134.3	5092.9	5037.7	4964.1	4872.1	4757.1	4623.6	4471.8	4306.2	4145.2
55°	5962.4	5962.4	5911.8	5847.4	5760.0	5649.6	5511.6	5355.2	5171.1	4982.5	4775.5
52.5°	6841.2	6841.2	6781.4	6707.7	6606.5	6477.7	6321.3	6137.3	5925.6	5704.8	5461.0
50°	7765.9	7765.9	7696.9	7614.1	7499.1	7347.2	7167.8	6956.2	6721.5	6463.9	6183.3
47.5°	8755.0	8755.0	8676.8	8580.2	8442.2	8267.4	8055.7	7811.9	7545.1	7255.2	6937.8
45°	9771.8	9771.8	9684.4	9573.9	9422.1	9224.3	8989.7	8755.0	8414.6	8078.7	7710.7
42.5°	10829.9	10829.9	10728.7	10604.5	10429.7	10213.4	9946.6	9643.0	9307.1	8929.9	8529.6
40°	11929.5	11929.5	11814.5	11671.8	11478.6	11230.2	10931.1	10590.7	10213.4	9794.8	9353.1
37.5°	13052.0	13052.0	12923.2	12766.8	12550.6	12274.5	11938.7	11561.4	11138.2	10673.5	10185.8
35°	14183.8	14183.8	14041.2	13870.9	13631.7	13328.1	12964.6	12546.0	12076.7	11570.6	11023.1
32.5°	15338.6	15338.6	15182.1	14988.9	14717.5	14381.6	13981.4	13525.9	13052.0	12463.2	11865.1
30°	16479.5	16479.5	16309.3	16097.7	15807.8	15439.8	15002.7	14501.2	13944.6	13341.9	12697.8
27.5°	17602.1	17556.1	17413.4	17188.0	16870.6	16479.5	16005.6	15462.8	14860.1	14197.6	13507.5
25°	18706.2	18655.6	18499.2	18250.8	17910.3	17482.5	16971.8	16392.1	15743.4	15044.1	14289.6
22.5°	19764.4	19709.2	19543.5	19276.7	18913.3	18448.6	17901.1	17280.0	16589.9	15840.0	15044.1
20°	20744.3	20684.5	20514.3	20233.6	19856.4	19364.1	18784.4	18117.3	17381.2	16589.9	15743.4
17.5°	21627.6	21567.8	21388.4	21098.6	20744.3	20196.8	19598.8	18894.9	18117.3	17280.0	16392.1
15°	22405.1	22340.7	22156.7	21866.9	21462.0	20946.7	20316.5	19598.8	18784.4	17901.1	16971.8
12.5°	23067.6	23003.2	22814.6	22524.8	22106.1	21590.8	20946.7	20196.8	19364.1	18448.6	17482.5
10°	23592.1	23527.7	23348.3	23072.2	22639.8	22106.1	21462.0	20744.3	19856.4	18913.3	17910.3
7.5°	23969.4	23909.6	23743.9	23467.9	23072.2	22524.8	21866.9	21098.6	20233.6	19276.7	18250.8
5°	24254.6	24185.6	24020.0	23743.9	23348.3	22814.6	22156.7	21388.4	20514.3	19543.5	18499.2
2.5°	24452.4	24369.6	24185.6	23909.6	23527.7	23003.2	22340.7	21567.8	20684.5	19709.2	18655.6
0°	24507.6	24452.4	24254.6	23969.4	23592.1	23067.6	22405.1	21627.6	20744.3	19764.4	18706.2

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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°	165.6	165.6	161.0	156.4	151.8	142.6	138.0	133.4	128.8	119.6	115.0
85°	349.6	340.4	331.2	322.0	308.2	299.0	285.2	276.0	262.2	248.4	234.6
82.5°	552.1	538.3	519.9	506.1	487.7	464.7	446.3	423.3	400.3	381.9	358.9
80°	772.9	749.9	726.9	703.9	676.3	648.7	621.1	593.5	561.3	529.1	496.9
77.5°	1012.1	979.9	947.7	910.9	878.7	841.9	805.1	768.3	726.9	685.5	644.1
75°	1279.0	1237.6	1191.6	1145.6	1104.2	1053.5	1002.9	952.3	897.1	846.5	791.3
72.5°	1568.8	1518.2	1463.0	1407.8	1348.0	1283.6	1219.2	1150.2	1085.8	1021.3	952.3
70°	1881.7	1821.9	1752.8	1683.8	1610.2	1532.0	1453.8	1371.0	1288.2	1205.4	1122.6
67.5°	2217.5	2143.9	2061.1	1978.3	1886.3	1794.3	1702.2	1605.6	1504.4	1403.2	1306.6
65°	2576.4	2484.3	2387.7	2281.9	2176.1	2070.3	1959.9	1844.9	1729.8	1610.2	1504.4
62.5°	2976.6	2861.6	2737.4	2608.6	2488.9	2360.1	2240.5	2097.9	1959.9	1826.5	1693.0
60°	3441.3	3289.5	3137.6	2976.6	2824.8	2659.2	2512.0	2355.5	2199.1	2047.3	1890.9
57.5°	3961.2	3767.9	3583.9	3390.7	3188.2	3004.2	2815.6	2627.0	2452.1	2272.7	2102.5
55°	4550.0	4315.4	4085.4	3846.1	3611.5	3381.5	3142.2	2930.6	2714.4	2512.0	2314.1
52.5°	5194.1	4927.3	4642.1	4370.6	4071.6	3786.3	3519.5	3252.7	2999.6	2755.8	2530.4
50°	5884.2	5571.4	5244.7	4913.5	4573.0	4237.2	3915.2	3602.3	3307.9	3022.6	2755.8
47.5°	6601.9	6247.7	5875.0	5497.8	5134.3	4724.9	4338.4	3984.2	3629.9	3307.9	2999.6
45°	7338.0	6937.8	6528.3	6100.5	5672.6	5230.9	4803.1	4370.6	3984.2	3602.3	3252.7
42.5°	8097.1	7646.3	7190.8	6716.9	6243.1	5760.0	5276.9	4803.1	4338.4	3915.2	3519.5
40°	8879.2	8382.4	7862.5	7347.2	6841.2	6289.1	5760.0	5230.9	4724.9	4237.2	3786.3
37.5°	9661.4	9118.5	8557.2	7977.5	7397.8	6841.2	6243.1	5672.6	5134.3	4573.0	4071.6
35°	10448.1	9850.0	9242.7	8612.4	7977.5	7347.2	6716.9	6100.5	5497.8	4913.5	4370.6
32.5°	11239.4	10586.1	9914.4	9242.7	8557.2	7862.5	7190.8	6528.3	5875.0	5244.7	4642.1
30°	12016.9	11308.4	10586.1	9850.0	9118.5	8382.4	7646.3	6937.8	6247.7	5571.4	4927.3
27.5°	12776.0	12016.9	11239.4	10448.1	9661.4	8879.2	8097.1	7338.0	6601.9	5884.2	5194.1
25°	13507.5	12697.8	11865.1	11023.1	10185.8	9353.1	8529.6	7710.7	6937.8	6183.3	5461.0
22.5°	14197.6	13341.9	12463.2	11570.6	10673.5	9794.8	8929.9	8078.7	7255.2	6463.9	5704.8
20°	14860.1	13944.6	13052.0	12076.7	11138.2	10213.4	9307.1	8414.6	7545.1	6721.5	5925.6
17.5°	15462.8	14501.2	13525.9	12546.0	11561.4	10590.7	9643.0	8755.0	7811.9	6956.2	6137.3
15°	16005.6	15002.7	13981.4	12964.6	11938.7	10931.1	9946.6	8989.7	8055.7	7167.8	6321.3
12.5°	16479.5	15439.8	14381.6	13328.1	12274.5	11230.2	10213.4	9224.3	8267.4	7347.2	6477.7
10°	16870.6	15807.8	14717.5	13631.7	12550.6	11478.6	10429.7	9422.1	8442.2	7499.1	6606.5
7.5°	17188.0	16097.7	14988.9	13870.9	12766.8	11671.8	10604.5	9573.9	8580.2	7614.1	6707.7
5°	17413.4	16309.3	15182.1	14041.2	12923.2	11814.5	10728.7	9684.4	8676.8	7696.9	6781.4
2.5°	17556.1	16479.5	15338.6	14183.8	13052.0	11929.5	10829.9	9771.8	8755.0	7765.9	6841.2
0°	17602.1	16479.5	15338.6	14183.8	13052.0	11929.5	10829.9	9771.8	8755.0	7765.9	6841.2

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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°	110.4	101.2	92.0	87.4	78.2	73.6	64.4	55.2	50.6	41.4	32.2
85°	220.8	202.4	188.6	174.8	161.0	142.6	128.8	115.0	96.6	82.8	64.4
82.5°	335.8	312.8	289.8	266.8	243.8	220.8	193.2	170.2	147.2	124.2	96.6
80°	464.7	427.9	395.7	363.5	331.2	299.0	262.2	230.0	193.2	161.0	128.8
77.5°	598.1	556.7	510.7	464.7	418.7	377.3	331.2	289.8	248.4	202.4	161.0
75°	740.7	685.5	634.9	575.1	519.9	460.1	404.9	349.6	299.0	248.4	193.2
72.5°	887.9	818.9	749.9	685.5	616.5	547.5	483.1	414.1	349.6	289.8	230.0
70°	1039.7	956.9	874.1	795.9	717.7	634.9	561.3	483.1	404.9	331.2	262.2
67.5°	1200.8	1104.2	1007.5	906.3	818.9	726.9	634.9	547.5	460.1	377.3	299.0
65°	1375.6	1260.6	1141.0	1035.1	920.1	818.9	717.7	616.5	519.9	418.7	331.2
62.5°	1555.0	1421.6	1288.2	1154.8	1035.1	906.3	795.9	685.5	575.1	464.7	363.5
60°	1739.0	1587.2	1435.4	1288.2	1141.0	1007.5	874.1	749.9	634.9	510.7	395.7
57.5°	1927.7	1757.4	1587.2	1421.6	1260.6	1104.2	956.9	818.9	685.5	556.7	427.9
55°	2120.9	1927.7	1739.0	1555.0	1375.6	1200.8	1039.7	887.9	740.7	598.1	464.7
52.5°	2314.1	2102.5	1890.9	1693.0	1504.4	1306.6	1122.6	952.3	791.3	644.1	496.9
50°	2512.0	2272.7	2047.3	1826.5	1610.2	1403.2	1205.4	1021.3	846.5	685.5	529.1
47.5°	2714.4	2452.1	2199.1	1959.9	1729.8	1504.4	1288.2	1085.8	897.1	726.9	561.3
45°	2930.6	2627.0	2355.5	2097.9	1844.9	1605.6	1371.0	1150.2	952.3	768.3	593.5
42.5°	3142.2	2815.6	2512.0	2240.5	1959.9	1702.2	1453.8	1219.2	1002.9	805.1	621.1
40°	3381.5	3004.2	2659.2	2360.1	2070.3	1794.3	1532.0	1283.6	1053.5	841.9	648.7
37.5°	3611.5	3188.2	2824.8	2488.9	2176.1	1886.3	1610.2	1348.0	1104.2	878.7	676.3
35°	3846.1	3390.7	2976.6	2608.6	2281.9	1978.3	1683.8	1407.8	1145.6	910.9	703.9
32.5°	4085.4	3583.9	3137.6	2737.4	2387.7	2061.1	1752.8	1463.0	1191.6	947.7	726.9
30°	4315.4	3767.9	3289.5	2861.6	2484.3	2143.9	1821.9	1518.2	1237.6	979.9	749.9
27.5°	4550.0	3961.2	3441.3	2976.6	2576.4	2217.5	1881.7	1568.8	1279.0	1012.1	772.9
25°	4775.5	4145.2	3583.9	3087.0	2659.2	2291.1	1946.1	1619.4	1315.8	1039.7	791.3
22.5°	4982.5	4306.2	3712.7	3192.8	2746.6	2355.5	2001.3	1665.4	1352.6	1067.4	809.7
20°	5171.1	4471.8	3846.1	3298.7	2829.4	2419.9	2047.3	1706.8	1384.8	1090.4	828.1
17.5°	5355.2	4623.6	3965.8	3395.3	2898.4	2475.1	2093.3	1739.0	1412.4	1108.8	841.9
15°	5511.6	4757.1	4071.6	3478.1	2962.8	2521.2	2130.1	1771.2	1435.4	1127.2	851.1
12.5°	5649.6	4872.1	4163.6	3547.1	3013.4	2562.6	2166.9	1798.9	1458.4	1141.0	864.9
10°	5760.0	4964.1	4237.2	3606.9	3059.4	2594.8	2189.9	1821.9	1472.2	1154.8	874.1
7.5°	5847.4	5037.7	4297.0	3648.3	3091.6	2622.4	2212.9	1835.7	1486.0	1164.0	887.9
5°	5911.8	5092.9	4338.4	3680.5	3119.2	2654.6	2240.5	1858.7	1504.4	1177.8	887.9
2.5°	5962.4	5134.3	4370.6	3708.1	3137.6	2654.6	2240.5	1858.7	1504.4	1177.8	887.9
0°	5962.4	5134.3	4370.6	3708.1	3137.6	2654.6	2240.5	1858.7	1504.4	1177.8	887.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.0	18.4	9.2	0.0
85°	50.6	32.2	18.4	0.0
82.5°	73.6	50.6	23.0	0.0
80°	96.6	64.4	32.2	0.0
77.5°	124.2	82.8	41.4	0.0
75°	147.2	96.6	50.6	0.0
72.5°	170.2	115.0	55.2	0.0
70°	193.2	128.8	64.4	0.0
67.5°	220.8	142.6	73.6	0.0
65°	243.8	161.0	78.2	0.0
62.5°	266.8	174.8	87.4	0.0
60°	289.8	188.6	92.0	0.0
57.5°	312.8	202.4	101.2	0.0
55°	335.8	220.8	110.4	0.0
52.5°	358.9	234.6	115.0	0.0
50°	381.9	248.4	119.6	0.0
47.5°	400.3	262.2	128.8	0.0
45°	423.3	276.0	133.4	0.0
42.5°	446.3	285.2	138.0	0.0
40°	464.7	299.0	142.6	0.0
37.5°	487.7	308.2	151.8	0.0
35°	506.1	322.0	156.4	0.0
32.5°	519.9	331.2	161.0	0.0
30°	538.3	340.4	165.6	0.0
27.5°	552.1	349.6	165.6	0.0
25°	565.9	358.9	170.2	0.0
22.5°	579.7	363.5	174.8	0.0
20°	593.5	372.7	179.4	0.0
17.5°	602.7	377.3	179.4	0.0
15°	611.9	381.9	188.6	0.0
12.5°	616.5	386.5	188.6	0.0
10°	625.7	395.7	188.6	0.0
7.5°	634.9	395.7	188.6	0.0
5°	634.9	395.7	188.6	0.0
2.5°	634.9	395.7	188.6	0.0
0°	634.9	395.7	188.6	0.0

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