

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: P624521

Luminaire Tested: **IFLD-L-SA8B-927-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624521
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-927-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

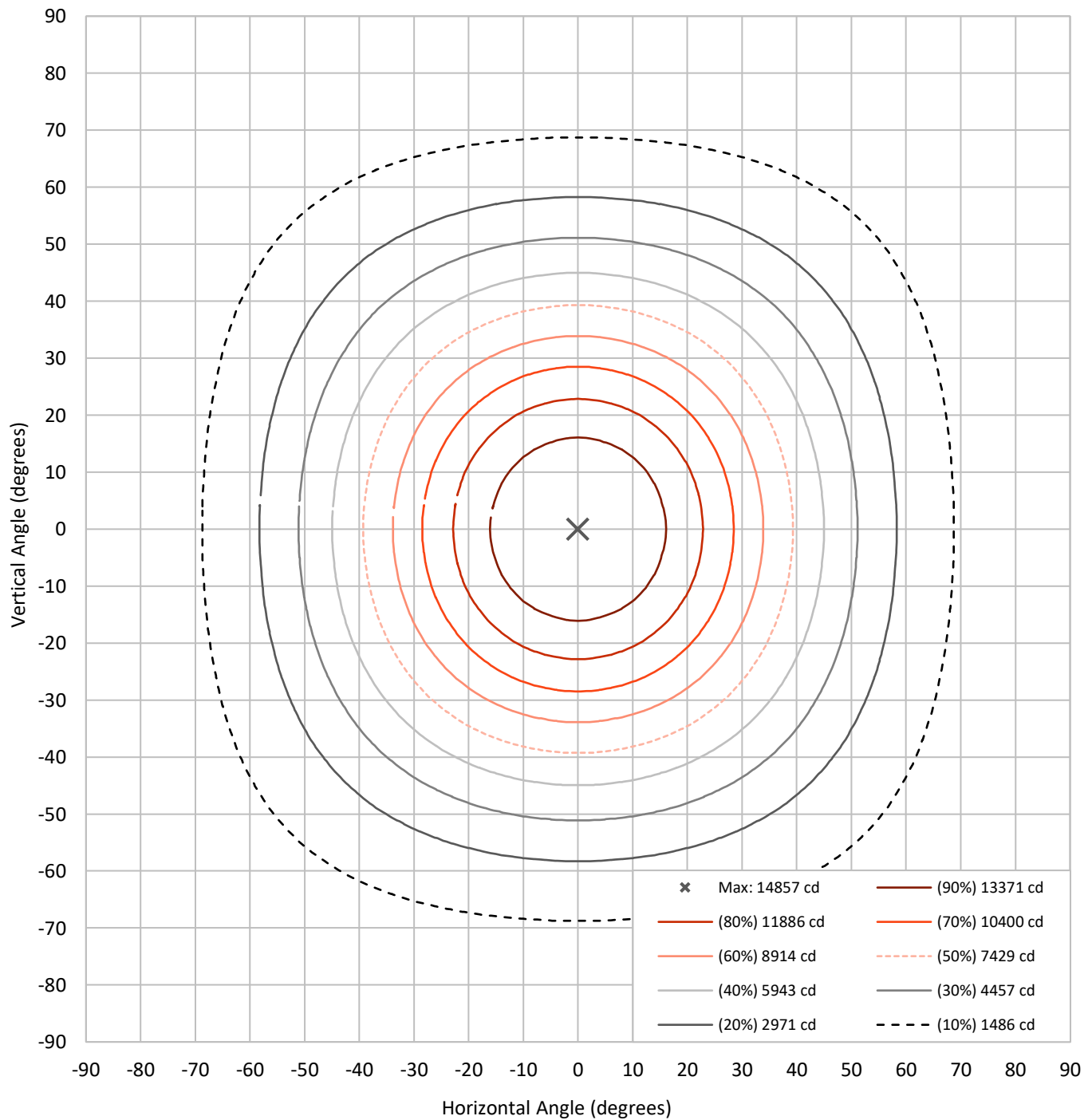
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26750.3 lumens	Max Intensity:	14857 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	83.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	11574.6 lumens	Field Lumens:	18953 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	320		
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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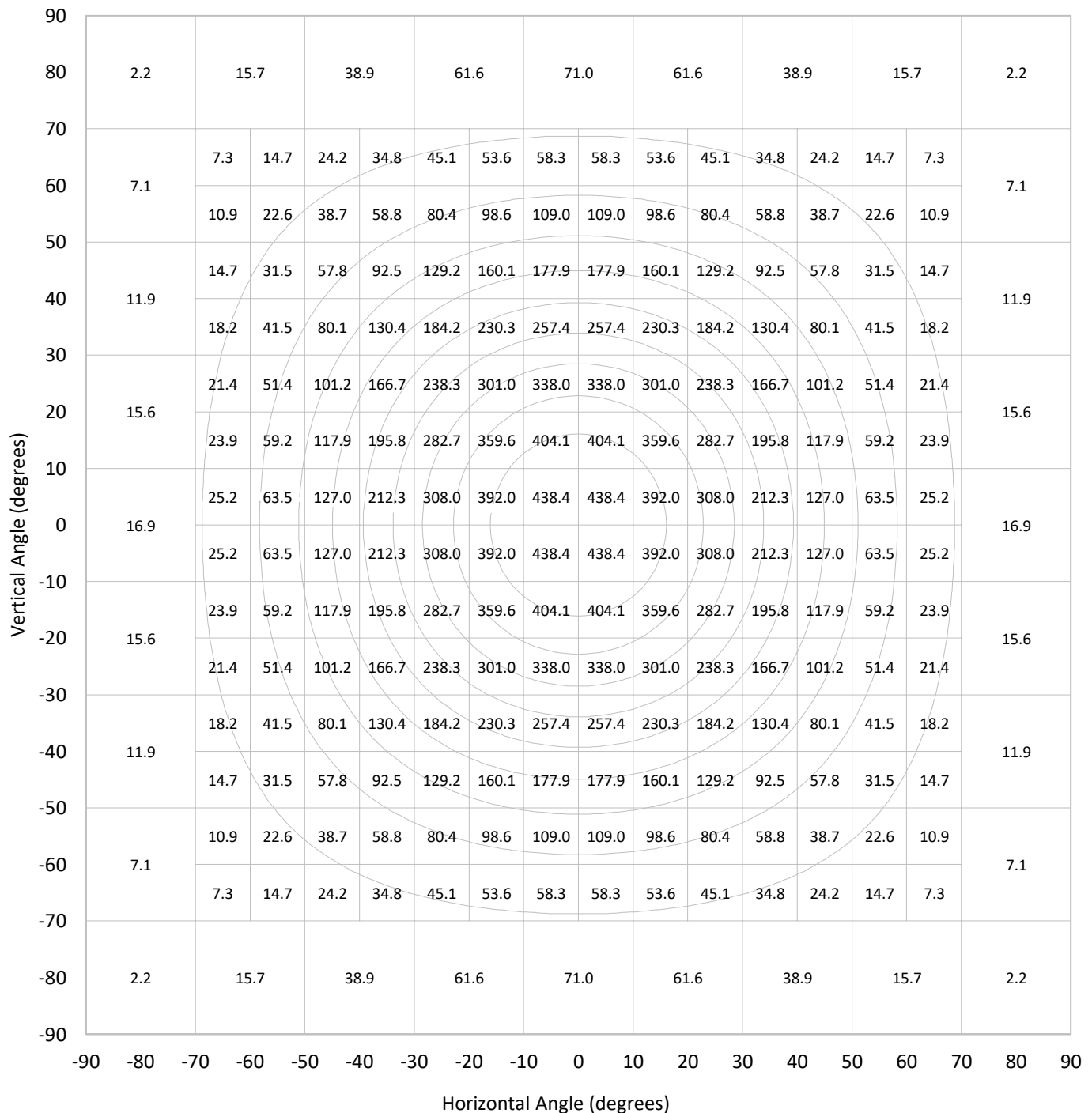
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Iso-Candela Plot



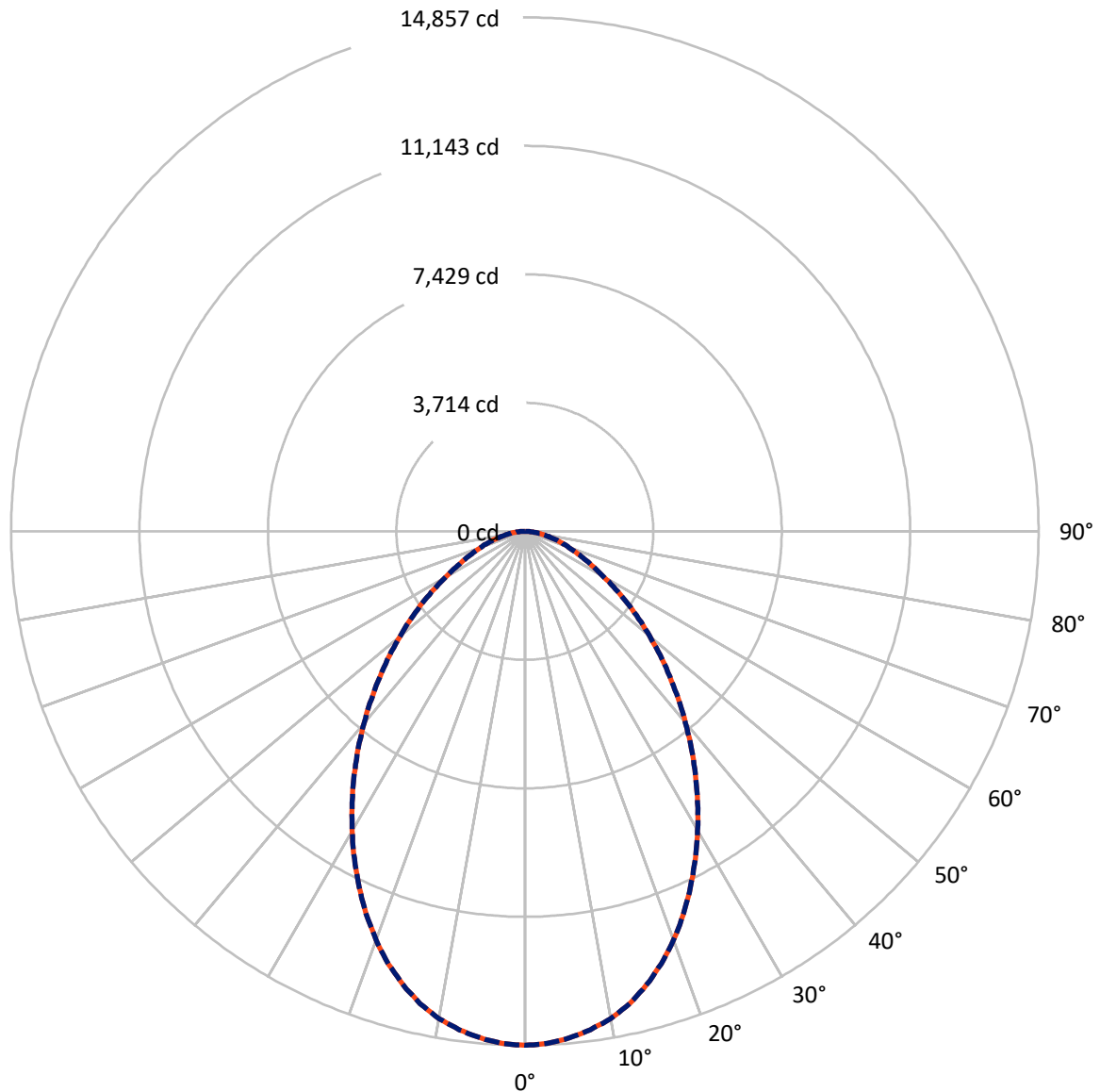
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Lumen Table



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Luminous Intensity Polar Plot

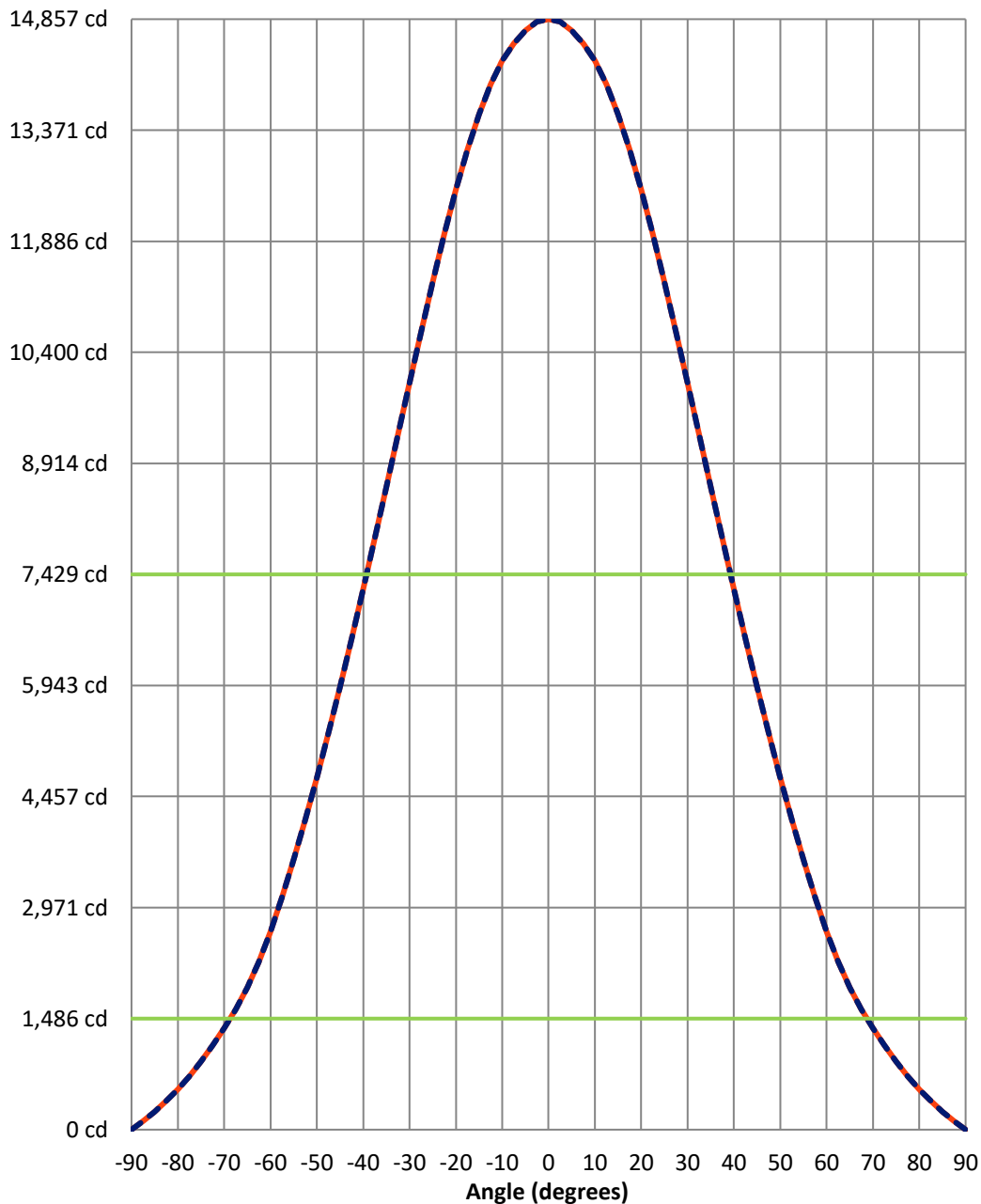


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 11574.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 18953
Efficiency: 70.9%

Spill:

Lumens: 7797.3
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°	114.3	114.3	114.3	114.3	114.3	114.3	114.3	108.8	108.8	106.0	103.2
85°	239.9	239.9	239.9	239.9	239.9	234.3	231.5	228.7	225.9	220.3	217.5
82.5°	384.9	384.9	384.9	384.9	379.3	373.7	370.9	365.4	359.8	351.4	343.0
80°	538.3	538.3	538.3	538.3	529.9	524.3	516.0	510.4	502.0	490.9	479.7
77.5°	714.0	714.0	714.0	705.6	700.0	691.7	683.3	672.1	661.0	647.0	630.3
75°	912.0	912.0	912.0	900.8	892.5	884.1	870.2	856.2	839.5	820.0	797.7
72.5°	1126.8	1126.8	1126.8	1112.8	1104.4	1090.5	1073.8	1054.2	1034.7	1009.6	981.7
70°	1358.2	1358.2	1358.2	1341.5	1327.6	1313.6	1291.3	1269.0	1241.1	1213.2	1179.7
67.5°	1609.3	1609.3	1609.3	1589.7	1573.0	1553.5	1528.4	1500.5	1467.0	1428.0	1388.9
65°	1902.1	1902.1	1890.9	1874.2	1854.7	1826.8	1796.1	1757.1	1715.2	1665.0	1612.0
62.5°	2247.9	2247.9	2231.2	2211.7	2186.6	2150.3	2108.5	2058.3	1999.7	1935.6	1871.4
60°	2649.5	2649.5	2630.0	2604.9	2568.7	2524.0	2468.3	2404.1	2331.6	2250.7	2172.6
57.5°	3112.5	3112.5	3087.4	3054.0	3009.3	2953.5	2883.8	2802.9	2710.9	2610.5	2512.9
55°	3614.5	3614.5	3583.9	3544.8	3491.8	3424.9	3341.2	3246.4	3134.8	3020.5	2895.0
52.5°	4147.2	4147.2	4111.0	4066.4	4005.0	3926.9	3832.1	3720.5	3592.2	3458.4	3310.5
50°	4707.8	4707.8	4666.0	4615.8	4546.1	4454.0	4345.3	4217.0	4074.7	3918.5	3748.4
47.5°	5307.5	5307.5	5260.1	5201.5	5117.8	5011.8	4883.5	4735.7	4574.0	4398.3	4205.8
45°	5923.8	5923.8	5870.8	5803.9	5711.9	5591.9	5449.7	5307.5	5101.1	4897.5	4674.4
42.5°	6565.3	6565.3	6503.9	6428.6	6322.7	6191.6	6029.8	5845.7	5642.1	5413.4	5170.8
40°	7231.9	7231.9	7162.1	7075.7	6958.6	6807.9	6626.7	6420.3	6191.6	5937.8	5670.0
37.5°	7912.4	7912.4	7834.3	7739.5	7608.4	7441.0	7237.5	7008.8	6752.2	6470.5	6174.8
35°	8598.5	8598.5	8512.0	8408.8	8263.8	8079.7	7859.4	7605.6	7321.1	7014.3	6682.4
32.5°	9298.5	9298.5	9203.7	9086.6	8922.0	8718.4	8475.8	8199.7	7912.4	7555.4	7192.8
30°	9990.2	9990.2	9887.0	9758.7	9583.0	9359.9	9094.9	8790.9	8453.5	8088.1	7697.6
27.5°	10670.7	10642.8	10556.4	10419.7	10227.3	9990.2	9702.9	9373.8	9008.5	8606.9	8188.5
25°	11340.1	11309.4	11214.6	11064.0	10857.6	10598.2	10288.6	9937.2	9544.0	9120.0	8662.6
22.5°	11981.5	11948.1	11847.7	11685.9	11465.6	11183.9	10852.0	10475.5	10057.1	9602.5	9120.0
20°	12575.6	12539.3	12436.1	12266.0	12037.3	11738.9	11387.5	10983.1	10536.8	10057.1	9544.0
17.5°	13111.1	13074.8	12966.1	12790.3	12575.6	12243.7	11881.1	11454.4	10983.1	10475.5	9937.2
15°	13582.4	13543.4	13431.8	13256.1	13010.7	12698.3	12316.2	11881.1	11387.5	10852.0	10288.6
12.5°	13984.0	13945.0	13830.6	13654.9	13401.1	13088.8	12698.3	12243.7	11738.9	11183.9	10598.2
10°	14302.0	14262.9	14154.2	13986.8	13724.7	13401.1	13010.7	12575.6	12037.3	11465.6	10857.6
7.5°	14530.7	14494.4	14394.0	14226.7	13986.8	13654.9	13256.1	12790.3	12266.0	11685.9	11064.0
5°	14703.6	14661.8	14561.4	14394.0	14154.2	13830.6	13431.8	12966.1	12436.1	11847.7	11214.6
2.5°	14823.5	14773.3	14661.8	14494.4	14262.9	13945.0	13543.4	13074.8	12539.3	11948.1	11309.4
0°	14857.0	14823.5	14703.6	14530.7	14302.0	13984.0	13582.4	13111.1	12575.6	11981.5	11340.1

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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°	100.4	100.4	97.6	94.8	92.0	86.5	83.7	80.9	78.1	72.5	69.7
85°	212.0	206.4	200.8	195.2	186.9	181.3	172.9	167.3	159.0	150.6	142.2
82.5°	334.7	326.3	315.2	306.8	295.6	281.7	270.5	256.6	242.6	231.5	217.5
80°	468.6	454.6	440.7	426.7	410.0	393.2	376.5	359.8	340.3	320.7	301.2
77.5°	613.6	594.1	574.5	552.2	532.7	510.4	488.1	465.8	440.7	415.6	390.5
75°	775.3	750.2	722.4	694.5	669.4	638.7	608.0	577.3	543.9	513.2	479.7
72.5°	951.0	920.4	886.9	853.4	817.2	778.1	739.1	697.2	658.2	619.2	577.3
70°	1140.7	1104.4	1062.6	1020.8	976.1	928.7	881.3	831.1	780.9	730.7	680.5
67.5°	1344.3	1299.7	1249.5	1199.3	1143.5	1087.7	1031.9	973.4	912.0	850.6	792.1
65°	1561.8	1506.1	1447.5	1383.3	1319.2	1255.0	1188.1	1118.4	1048.7	976.1	912.0
62.5°	1804.5	1734.8	1659.5	1581.4	1508.8	1430.8	1358.2	1271.8	1188.1	1107.2	1026.4
60°	2086.2	1994.1	1902.1	1804.5	1712.4	1612.0	1522.8	1428.0	1333.1	1241.1	1146.3
57.5°	2401.3	2284.2	2172.6	2055.5	1932.8	1821.2	1706.9	1592.5	1486.5	1377.8	1274.6
55°	2758.3	2616.1	2476.6	2331.6	2189.4	2049.9	1904.9	1776.6	1645.5	1522.8	1402.9
52.5°	3148.8	2987.0	2814.1	2649.5	2468.3	2295.3	2133.6	1971.8	1818.4	1670.6	1533.9
50°	3567.1	3377.5	3179.5	2978.7	2772.3	2568.7	2373.4	2183.8	2005.3	1832.4	1670.6
47.5°	4002.2	3787.5	3561.6	3332.9	3112.5	2864.3	2630.0	2415.3	2200.5	2005.3	1818.4
45°	4448.5	4205.8	3957.6	3698.2	3438.8	3171.1	2911.7	2649.5	2415.3	2183.8	1971.8
42.5°	4908.6	4635.3	4359.2	4071.9	3784.7	3491.8	3199.0	2911.7	2630.0	2373.4	2133.6
40°	5382.8	5081.6	4766.4	4454.0	4147.2	3812.6	3491.8	3171.1	2864.3	2568.7	2295.3
37.5°	5856.9	5527.8	5187.5	4836.1	4484.7	4147.2	3784.7	3438.8	3112.5	2772.3	2468.3
35°	6333.8	5971.2	5603.1	5221.0	4836.1	4454.0	4071.9	3698.2	3332.9	2978.7	2649.5
32.5°	6813.5	6417.5	6010.3	5603.1	5187.5	4766.4	4359.2	3957.6	3561.6	3179.5	2814.1
30°	7284.9	6855.4	6417.5	5971.2	5527.8	5081.6	4635.3	4205.8	3787.5	3377.5	2987.0
27.5°	7745.0	7284.9	6813.5	6333.8	5856.9	5382.8	4908.6	4448.5	4002.2	3567.1	3148.8
25°	8188.5	7697.6	7192.8	6682.4	6174.8	5670.0	5170.8	4674.4	4205.8	3748.4	3310.5
22.5°	8606.9	8088.1	7555.4	7014.3	6470.5	5937.8	5413.4	4897.5	4398.3	3918.5	3458.4
20°	9008.5	8453.5	7912.4	7321.1	6752.2	6191.6	5642.1	5101.1	4574.0	4074.7	3592.2
17.5°	9373.8	8790.9	8199.7	7605.6	7008.8	6420.3	5845.7	5307.5	4735.7	4217.0	3720.5
15°	9702.9	9094.9	8475.8	7859.4	7237.5	6626.7	6029.8	5449.7	4883.5	4345.3	3832.1
12.5°	9990.2	9359.9	8718.4	8079.7	7441.0	6807.9	6191.6	5591.9	5011.8	4454.0	3926.9
10°	10227.3	9583.0	8922.0	8263.8	7608.4	6958.6	6322.7	5711.9	5117.8	4546.1	4005.0
7.5°	10419.7	9758.7	9086.6	8408.8	7739.5	7075.7	6428.6	5803.9	5201.5	4615.8	4066.4
5°	10556.4	9887.0	9203.7	8512.0	7834.3	7162.1	6503.9	5870.8	5260.1	4666.0	4111.0
2.5°	10642.8	9990.2	9298.5	8598.5	7912.4	7231.9	6565.3	5923.8	5307.5	4707.8	4147.2
0°	10670.7	9990.2	9298.5	8598.5	7912.4	7231.9	6565.3	5923.8	5307.5	4707.8	4147.2

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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°	66.9	61.4	55.8	53.0	47.4	44.6	39.0	33.5	30.7	25.1	19.5
85°	133.9	122.7	114.3	106.0	97.6	86.5	78.1	69.7	58.6	50.2	39.0
82.5°	203.6	189.7	175.7	161.8	147.8	133.9	117.1	103.2	89.2	75.3	58.6
80°	281.7	259.4	239.9	220.3	200.8	181.3	159.0	139.4	117.1	97.6	78.1
77.5°	362.6	337.5	309.6	281.7	253.8	228.7	200.8	175.7	150.6	122.7	97.6
75°	449.0	415.6	384.9	348.6	315.2	278.9	245.4	212.0	181.3	150.6	117.1
72.5°	538.3	496.4	454.6	415.6	373.7	331.9	292.8	251.0	212.0	175.7	139.4
70°	630.3	580.1	529.9	482.5	435.1	384.9	340.3	292.8	245.4	200.8	159.0
67.5°	727.9	669.4	610.8	549.4	496.4	440.7	384.9	331.9	278.9	228.7	181.3
65°	833.9	764.2	691.7	627.5	557.8	496.4	435.1	373.7	315.2	253.8	200.8
62.5°	942.7	861.8	780.9	700.0	627.5	549.4	482.5	415.6	348.6	281.7	220.3
60°	1054.2	962.2	870.2	780.9	691.7	610.8	529.9	454.6	384.9	309.6	239.9
57.5°	1168.6	1065.4	962.2	861.8	764.2	669.4	580.1	496.4	415.6	337.5	259.4
55°	1285.7	1168.6	1054.2	942.7	833.9	727.9	630.3	538.3	449.0	362.6	281.7
52.5°	1402.9	1274.6	1146.3	1026.4	912.0	792.1	680.5	577.3	479.7	390.5	301.2
50°	1522.8	1377.8	1241.1	1107.2	976.1	850.6	730.7	619.2	513.2	415.6	320.7
47.5°	1645.5	1486.5	1333.1	1188.1	1048.7	912.0	780.9	658.2	543.9	440.7	340.3
45°	1776.6	1592.5	1428.0	1271.8	1118.4	973.4	831.1	697.2	577.3	465.8	359.8
42.5°	1904.9	1706.9	1522.8	1358.2	1188.1	1031.9	881.3	739.1	608.0	488.1	376.5
40°	2049.9	1821.2	1612.0	1430.8	1255.0	1087.7	928.7	778.1	638.7	510.4	393.2
37.5°	2189.4	1932.8	1712.4	1508.8	1319.2	1143.5	976.1	817.2	669.4	532.7	410.0
35°	2331.6	2055.5	1804.5	1581.4	1383.3	1199.3	1020.8	853.4	694.5	552.2	426.7
32.5°	2476.6	2172.6	1902.1	1659.5	1447.5	1249.5	1062.6	886.9	722.4	574.5	440.7
30°	2616.1	2284.2	1994.1	1734.8	1506.1	1299.7	1104.4	920.4	750.2	594.1	454.6
27.5°	2758.3	2401.3	2086.2	1804.5	1561.8	1344.3	1140.7	951.0	775.3	613.6	468.6
25°	2895.0	2512.9	2172.6	1871.4	1612.0	1388.9	1179.7	981.7	797.7	630.3	479.7
22.5°	3020.5	2610.5	2250.7	1935.6	1665.0	1428.0	1213.2	1009.6	820.0	647.0	490.9
20°	3134.8	2710.9	2331.6	1999.7	1715.2	1467.0	1241.1	1034.7	839.5	661.0	502.0
17.5°	3246.4	2802.9	2404.1	2058.3	1757.1	1500.5	1269.0	1054.2	856.2	672.1	510.4
15°	3341.2	2883.8	2468.3	2108.5	1796.1	1528.4	1291.3	1073.8	870.2	683.3	516.0
12.5°	3424.9	2953.5	2524.0	2150.3	1826.8	1553.5	1313.6	1090.5	884.1	691.7	524.3
10°	3491.8	3009.3	2568.7	2186.6	1854.7	1573.0	1327.6	1104.4	892.5	700.0	529.9
7.5°	3544.8	3054.0	2604.9	2211.7	1874.2	1589.7	1341.5	1112.8	900.8	705.6	538.3
5°	3583.9	3087.4	2630.0	2231.2	1890.9	1609.3	1358.2	1126.8	912.0	714.0	538.3
2.5°	3614.5	3112.5	2649.5	2247.9	1902.1	1609.3	1358.2	1126.8	912.0	714.0	538.3
0°	3614.5	3112.5	2649.5	2247.9	1902.1	1609.3	1358.2	1126.8	912.0	714.0	538.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	13.9	11.2	5.6	0.0
85°	30.7	19.5	11.2	0.0
82.5°	44.6	30.7	13.9	0.0
80°	58.6	39.0	19.5	0.0
77.5°	75.3	50.2	25.1	0.0
75°	89.2	58.6	30.7	0.0
72.5°	103.2	69.7	33.5	0.0
70°	117.1	78.1	39.0	0.0
67.5°	133.9	86.5	44.6	0.0
65°	147.8	97.6	47.4	0.0
62.5°	161.8	106.0	53.0	0.0
60°	175.7	114.3	55.8	0.0
57.5°	189.7	122.7	61.4	0.0
55°	203.6	133.9	66.9	0.0
52.5°	217.5	142.2	69.7	0.0
50°	231.5	150.6	72.5	0.0
47.5°	242.6	159.0	78.1	0.0
45°	256.6	167.3	80.9	0.0
42.5°	270.5	172.9	83.7	0.0
40°	281.7	181.3	86.5	0.0
37.5°	295.6	186.9	92.0	0.0
35°	306.8	195.2	94.8	0.0
32.5°	315.2	200.8	97.6	0.0
30°	326.3	206.4	100.4	0.0
27.5°	334.7	212.0	100.4	0.0
25°	343.0	217.5	103.2	0.0
22.5°	351.4	220.3	106.0	0.0
20°	359.8	225.9	108.8	0.0
17.5°	365.4	228.7	108.8	0.0
15°	370.9	231.5	114.3	0.0
12.5°	373.7	234.3	114.3	0.0
10°	379.3	239.9	114.3	0.0
7.5°	384.9	239.9	114.3	0.0
5°	384.9	239.9	114.3	0.0
2.5°	384.9	239.9	114.3	0.0
0°	384.9	239.9	114.3	0.0

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