

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: P624595

Luminaire Tested: **IFLD-S-SA6D-940-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-940-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

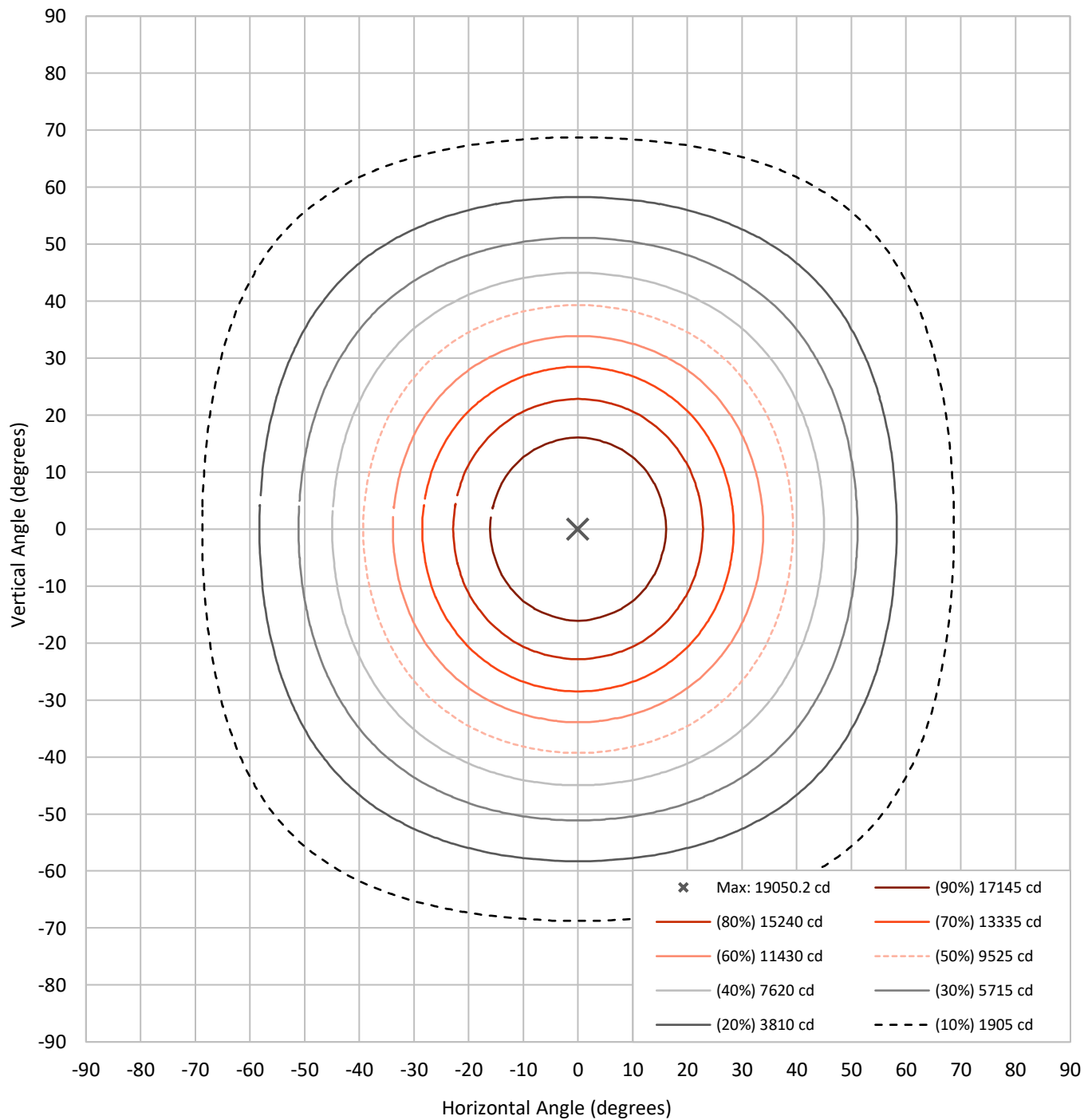
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34300.3 lumens	Max Intensity:	19050.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	93.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	14841.4 lumens	Field Lumens:	24302.3 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	368.2		
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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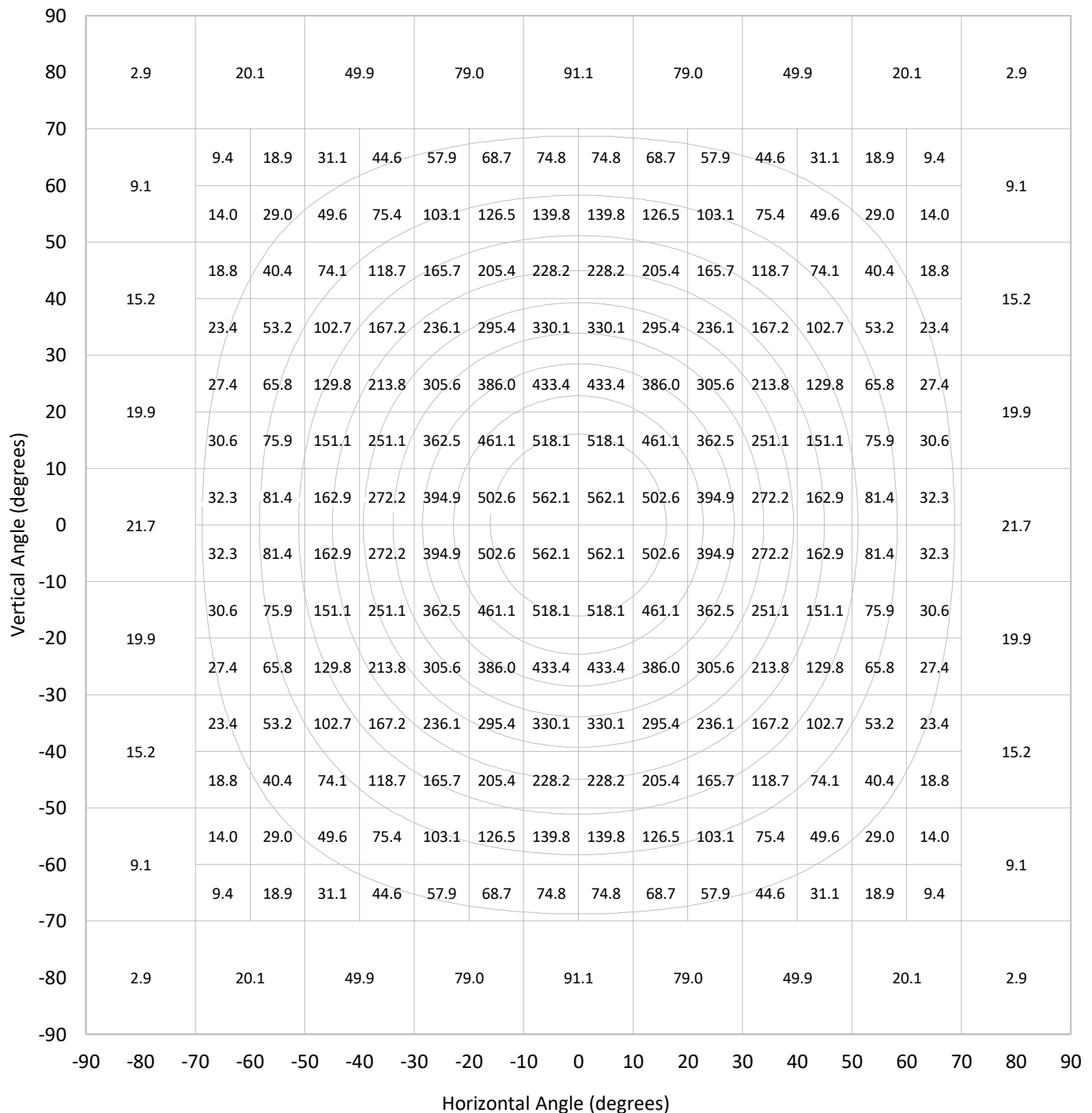
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Iso-Candela Plot



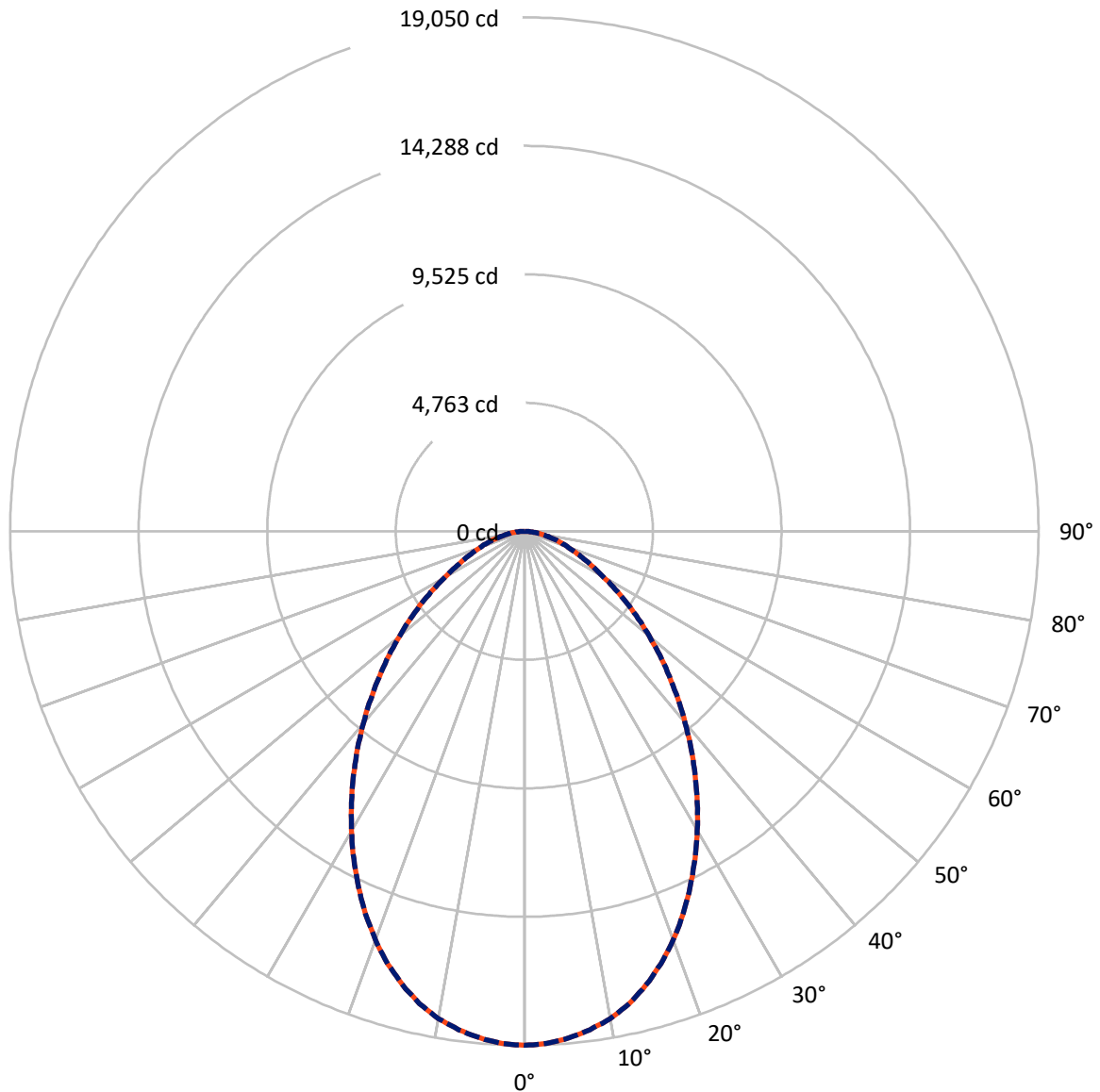
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Lumen Table



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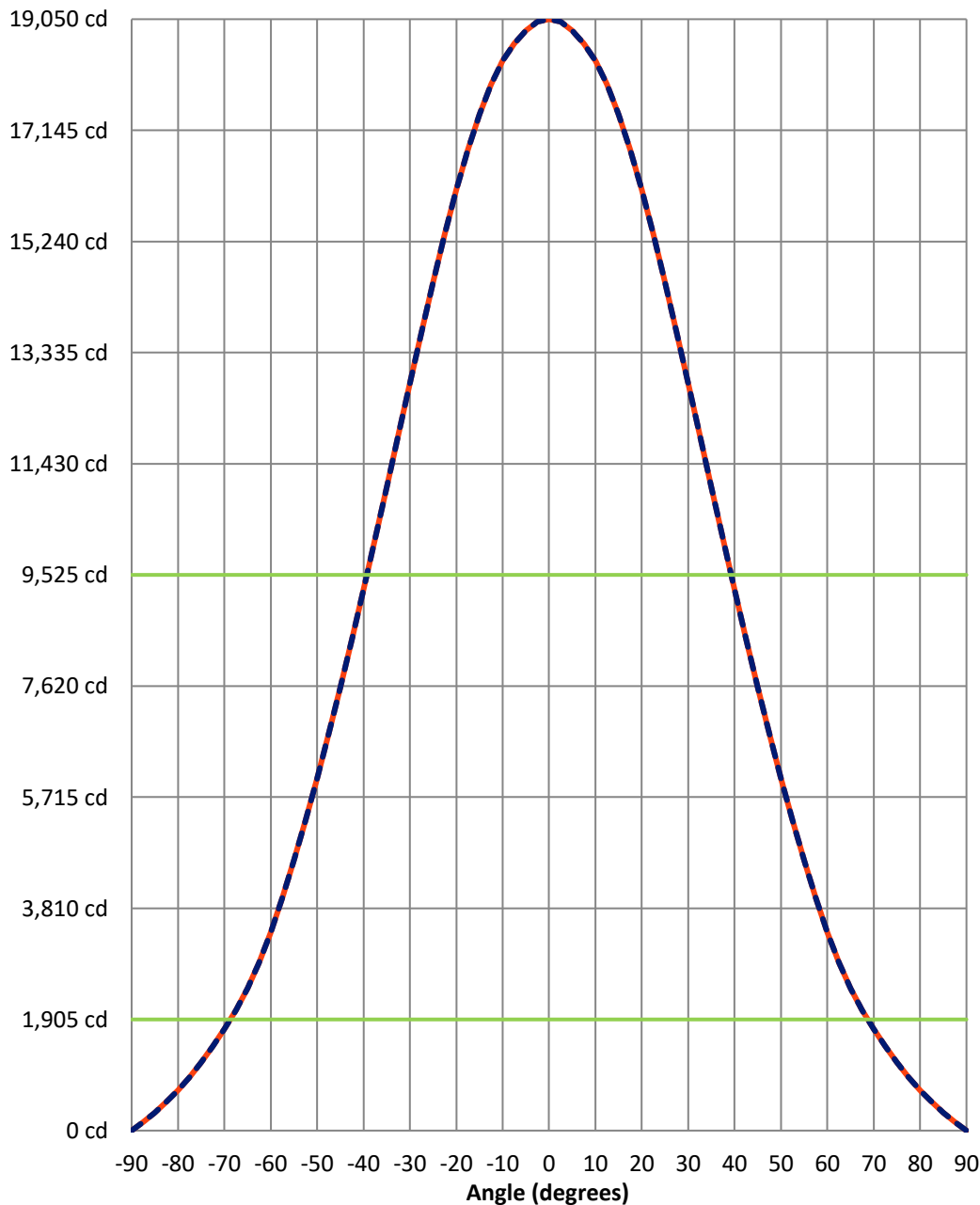
Luminous Intensity Polar Plot



— 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: 14841.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 24302.3
Efficiency: 70.9%

Spill:

Lumens: 9998
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°	146.6	146.6	146.6	146.6	146.6	146.6	146.6	139.5	139.5	135.9	132.3
85°	307.6	307.6	307.6	307.6	307.6	300.4	296.8	293.2	289.7	282.5	278.9
82.5°	493.5	493.5	493.5	493.5	486.4	479.2	475.6	468.5	461.3	450.6	439.9
80°	690.2	690.2	690.2	690.2	679.5	672.3	661.6	654.4	643.7	629.4	615.1
77.5°	915.5	915.5	915.5	904.8	897.6	886.9	876.2	861.9	847.6	829.7	808.2
75°	1169.4	1169.4	1169.4	1155.1	1144.4	1133.6	1115.8	1097.9	1076.4	1051.4	1022.8
72.5°	1444.8	1444.8	1444.8	1426.9	1416.2	1398.3	1376.8	1351.8	1326.8	1294.6	1258.8
70°	1741.6	1741.6	1741.6	1720.1	1702.3	1684.4	1655.8	1627.2	1591.4	1555.6	1512.7
67.5°	2063.4	2063.4	2063.4	2038.4	2017.0	1991.9	1959.7	1924.0	1881.1	1831.0	1780.9
65°	2438.9	2438.9	2424.6	2403.2	2378.1	2342.4	2303.0	2253.0	2199.3	2135.0	2067.0
62.5°	2882.4	2882.4	2860.9	2835.9	2803.7	2757.2	2703.6	2639.2	2564.1	2481.9	2399.6
60°	3397.4	3397.4	3372.3	3340.1	3293.6	3236.4	3164.9	3082.7	2989.7	2886.0	2785.8
57.5°	3991.0	3991.0	3958.8	3915.9	3858.7	3787.2	3697.8	3594.0	3476.0	3347.3	3222.1
55°	4634.7	4634.7	4595.4	4545.3	4477.4	4391.5	4284.2	4162.7	4019.6	3873.0	3712.1
52.5°	5317.8	5317.8	5271.3	5214.0	5135.4	5035.2	4913.6	4770.6	4606.1	4434.4	4244.9
50°	6036.6	6036.6	5982.9	5918.5	5829.1	5711.1	5571.7	5407.2	5224.8	5024.5	4806.4
47.5°	6805.4	6805.4	6744.6	6669.5	6562.3	6426.4	6261.9	6072.3	5864.9	5639.6	5392.9
45°	7595.8	7595.8	7527.8	7442.0	7324.0	7170.2	6987.8	6805.4	6540.8	6279.7	5993.6
42.5°	8418.3	8418.3	8339.6	8243.1	8107.2	7939.1	7731.7	7495.6	7234.6	6941.3	6630.2
40°	9273.0	9273.0	9183.6	9072.7	8922.5	8729.4	8497.0	8232.3	7939.1	7613.7	7270.3
37.5°	10145.6	10145.6	10045.4	9923.9	9755.8	9541.2	9280.1	8986.9	8657.9	8296.7	7917.6
35°	11025.3	11025.3	10914.4	10782.1	10596.2	10360.1	10077.6	9752.2	9387.4	8994.0	8568.5
32.5°	11922.9	11922.9	11801.3	11651.1	11440.1	11179.1	10868.0	10513.9	10145.6	9687.8	9222.9
30°	12809.8	12809.8	12677.5	12513.0	12287.7	12001.6	11661.9	11272.1	10839.4	10370.9	9870.2
27.5°	13682.4	13646.6	13535.8	13360.5	13113.8	12809.8	12441.5	12019.5	11551.0	11036.0	10499.6
25°	14540.7	14501.3	14379.8	14186.6	13922.0	13589.4	13192.5	12741.9	12237.6	11694.1	11107.6
22.5°	15363.2	15320.3	15191.5	14984.1	14701.6	14340.4	13914.9	13432.1	12895.6	12312.7	11694.1
20°	16124.9	16078.4	15946.1	15728.0	15434.7	15052.1	14601.5	14082.9	13510.7	12895.6	12237.6
17.5°	16811.5	16765.1	16625.6	16400.3	16124.9	15699.4	15234.5	14687.3	14082.9	13432.1	12741.9
15°	17415.9	17365.8	17222.8	16997.5	16682.8	16282.3	15792.3	15234.5	14601.5	13914.9	13192.5
12.5°	17930.9	17880.8	17734.2	17508.9	17183.5	16782.9	16282.3	15699.4	15052.1	14340.4	13589.4
10°	18338.6	18288.5	18149.0	17934.5	17598.3	17183.5	16682.8	16124.9	15434.7	14701.6	13922.0
7.5°	18631.8	18585.3	18456.6	18242.0	17934.5	17508.9	16997.5	16400.3	15728.0	14984.1	14186.6
5°	18853.5	18799.9	18671.1	18456.6	18149.0	17734.2	17222.8	16625.6	15946.1	15191.5	14379.8
2.5°	19007.3	18942.9	18799.9	18585.3	18288.5	17880.8	17365.8	16765.1	16078.4	15320.3	14501.3
0°	19050.2	19007.3	18853.5	18631.8	18338.6	17930.9	17415.9	16811.5	16124.9	15363.2	14540.7

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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°	128.7	128.7	125.2	121.6	118.0	110.9	107.3	103.7	100.1	93.0	89.4
85°	271.8	264.6	257.5	250.3	239.6	232.5	221.7	214.6	203.8	193.1	182.4
82.5°	429.1	418.4	404.1	393.4	379.1	361.2	346.9	329.0	311.1	296.8	278.9
80°	600.8	582.9	565.0	547.2	525.7	504.2	482.8	461.3	436.3	411.3	386.2
77.5°	786.8	761.7	736.7	708.1	683.0	654.4	625.8	597.2	565.0	532.8	500.7
75°	994.2	962.0	926.2	890.5	858.3	818.9	779.6	740.3	697.4	658.0	615.1
72.5°	1219.5	1180.1	1137.2	1094.3	1047.8	997.7	947.7	894.0	844.0	793.9	740.3
70°	1462.7	1416.2	1362.5	1308.9	1251.7	1190.9	1130.1	1065.7	1001.3	937.0	872.6
67.5°	1723.7	1666.5	1602.1	1537.8	1466.2	1394.7	1323.2	1248.1	1169.4	1090.7	1015.6
65°	2002.7	1931.1	1856.0	1773.8	1691.5	1609.3	1523.4	1434.0	1344.6	1251.7	1169.4
62.5°	2313.8	2224.4	2127.8	2027.7	1934.7	1834.6	1741.6	1630.7	1523.4	1419.7	1316.0
60°	2675.0	2557.0	2438.9	2313.8	2195.8	2067.0	1952.6	1831.0	1709.4	1591.4	1469.8
57.5°	3079.1	2928.9	2785.8	2635.6	2478.3	2335.2	2188.6	2042.0	1906.1	1766.6	1634.3
55°	3536.8	3354.4	3175.6	2989.7	2807.3	2628.5	2442.5	2278.0	2109.9	1952.6	1798.8
52.5°	4037.5	3830.1	3608.3	3397.4	3164.9	2943.2	2735.8	2528.3	2331.7	2142.1	1966.9
50°	4573.9	4330.7	4076.8	3819.3	3554.7	3293.6	3043.3	2800.1	2571.3	2349.5	2142.1
47.5°	5131.8	4856.4	4566.8	4273.5	3991.0	3672.7	3372.3	3097.0	2821.6	2571.3	2331.7
45°	5704.0	5392.9	5074.6	4742.0	4409.4	4066.1	3733.5	3397.4	3097.0	2800.1	2528.3
42.5°	6294.0	5943.6	5589.5	5221.2	4852.9	4477.4	4101.9	3733.5	3372.3	3043.3	2735.8
40°	6902.0	6515.8	6111.7	5711.1	5317.8	4888.6	4477.4	4066.1	3672.7	3293.6	2943.2
37.5°	7509.9	7088.0	6651.7	6201.1	5750.5	5317.8	4852.9	4409.4	3991.0	3554.7	3164.9
35°	8121.5	7656.6	7184.5	6694.6	6201.1	5711.1	5221.2	4742.0	4273.5	3819.3	3397.4
32.5°	8736.6	8228.8	7706.6	7184.5	6651.7	6111.7	5589.5	5074.6	4566.8	4076.8	3608.3
30°	9340.9	8790.2	8228.8	7656.6	7088.0	6515.8	5943.6	5392.9	4856.4	4330.7	3830.1
27.5°	9931.0	9340.9	8736.6	8121.5	7509.9	6902.0	6294.0	5704.0	5131.8	4573.9	4037.5
25°	10499.6	9870.2	9222.9	8568.5	7917.6	7270.3	6630.2	5993.6	5392.9	4806.4	4244.9
22.5°	11036.0	10370.9	9687.8	8994.0	8296.7	7613.7	6941.3	6279.7	5639.6	5024.5	4434.4
20°	11551.0	10839.4	10145.6	9387.4	8657.9	7939.1	7234.6	6540.8	5864.9	5224.8	4606.1
17.5°	12019.5	11272.1	10513.9	9752.2	8986.9	8232.3	7495.6	6805.4	6072.3	5407.2	4770.6
15°	12441.5	11661.9	10868.0	10077.6	9280.1	8497.0	7731.7	6987.8	6261.9	5571.7	4913.6
12.5°	12809.8	12001.6	11179.1	10360.1	9541.2	8729.4	7939.1	7170.2	6426.4	5711.1	5035.2
10°	13113.8	12287.7	11440.1	10596.2	9755.8	8922.5	8107.2	7324.0	6562.3	5829.1	5135.4
7.5°	13360.5	12513.0	11651.1	10782.1	9923.9	9072.7	8243.1	7442.0	6669.5	5918.5	5214.0
5°	13535.8	12677.5	11801.3	10914.4	10045.4	9183.6	8339.6	7527.8	6744.6	5982.9	5271.3
2.5°	13646.6	12809.8	11922.9	11025.3	10145.6	9273.0	8418.3	7595.8	6805.4	6036.6	5317.8
0°	13682.4	12809.8	11922.9	11025.3	10145.6	9273.0	8418.3	7595.8	6805.4	6036.6	5317.8

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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°	85.8	78.7	71.5	67.9	60.8	57.2	50.1	42.9	39.3	32.2	25.0
85°	171.7	157.4	146.6	135.9	125.2	110.9	100.1	89.4	75.1	64.4	50.1
82.5°	261.1	243.2	225.3	207.4	189.5	171.7	150.2	132.3	114.4	96.6	75.1
80°	361.2	332.6	307.6	282.5	257.5	232.5	203.8	178.8	150.2	125.2	100.1
77.5°	464.9	432.7	397.0	361.2	325.4	293.2	257.5	225.3	193.1	157.4	125.2
75°	575.8	532.8	493.5	447.0	404.1	357.6	314.7	271.8	232.5	193.1	150.2
72.5°	690.2	636.6	582.9	532.8	479.2	425.6	375.5	321.9	271.8	225.3	178.8
70°	808.2	743.8	679.5	618.7	557.9	493.5	436.3	375.5	314.7	257.5	203.8
67.5°	933.4	858.3	783.2	704.5	636.6	565.0	493.5	425.6	357.6	293.2	232.5
65°	1069.3	979.9	886.9	804.6	715.2	636.6	557.9	479.2	404.1	325.4	257.5
62.5°	1208.7	1105.0	1001.3	897.6	804.6	704.5	618.7	532.8	447.0	361.2	282.5
60°	1351.8	1233.8	1115.8	1001.3	886.9	783.2	679.5	582.9	493.5	397.0	307.6
57.5°	1498.4	1366.1	1233.8	1105.0	979.9	858.3	743.8	636.6	532.8	432.7	332.6
55°	1648.6	1498.4	1351.8	1208.7	1069.3	933.4	808.2	690.2	575.8	464.9	361.2
52.5°	1798.8	1634.3	1469.8	1316.0	1169.4	1015.6	872.6	740.3	615.1	500.7	386.2
50°	1952.6	1766.6	1591.4	1419.7	1251.7	1090.7	937.0	793.9	658.0	532.8	411.3
47.5°	2109.9	1906.1	1709.4	1523.4	1344.6	1169.4	1001.3	844.0	697.4	565.0	436.3
45°	2278.0	2042.0	1831.0	1630.7	1434.0	1248.1	1065.7	894.0	740.3	597.2	461.3
42.5°	2442.5	2188.6	1952.6	1741.6	1523.4	1323.2	1130.1	947.7	779.6	625.8	482.8
40°	2628.5	2335.2	2067.0	1834.6	1609.3	1394.7	1190.9	997.7	818.9	654.4	504.2
37.5°	2807.3	2478.3	2195.8	1934.7	1691.5	1466.2	1251.7	1047.8	858.3	683.0	525.7
35°	2989.7	2635.6	2313.8	2027.7	1773.8	1537.8	1308.9	1094.3	890.5	708.1	547.2
32.5°	3175.6	2785.8	2438.9	2127.8	1856.0	1602.1	1362.5	1137.2	926.2	736.7	565.0
30°	3354.4	2928.9	2557.0	2224.4	1931.1	1666.5	1416.2	1180.1	962.0	761.7	582.9
27.5°	3536.8	3079.1	2675.0	2313.8	2002.7	1723.7	1462.7	1219.5	994.2	786.8	600.8
25°	3712.1	3222.1	2785.8	2399.6	2067.0	1780.9	1512.7	1258.8	1022.8	808.2	615.1
22.5°	3873.0	3347.3	2886.0	2481.9	2135.0	1831.0	1555.6	1294.6	1051.4	829.7	629.4
20°	4019.6	3476.0	2989.7	2564.1	2199.3	1881.1	1591.4	1326.8	1076.4	847.6	643.7
17.5°	4162.7	3594.0	3082.7	2639.2	2253.0	1924.0	1627.2	1351.8	1097.9	861.9	654.4
15°	4284.2	3697.8	3164.9	2703.6	2303.0	1959.7	1655.8	1376.8	1115.8	876.2	661.6
12.5°	4391.5	3787.2	3236.4	2757.2	2342.4	1991.9	1684.4	1398.3	1133.6	886.9	672.3
10°	4477.4	3858.7	3293.6	2803.7	2378.1	2017.0	1702.3	1416.2	1144.4	897.6	679.5
7.5°	4545.3	3915.9	3340.1	2835.9	2403.2	2038.4	1720.1	1426.9	1155.1	904.8	690.2
5°	4595.4	3958.8	3372.3	2860.9	2424.6	2063.4	1741.6	1444.8	1169.4	915.5	690.2
2.5°	4634.7	3991.0	3397.4	2882.4	2438.9	2063.4	1741.6	1444.8	1169.4	915.5	690.2
0°	4634.7	3991.0	3397.4	2882.4	2438.9	2063.4	1741.6	1444.8	1169.4	915.5	690.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.9	14.3	7.2	0.0
85°	39.3	25.0	14.3	0.0
82.5°	57.2	39.3	17.9	0.0
80°	75.1	50.1	25.0	0.0
77.5°	96.6	64.4	32.2	0.0
75°	114.4	75.1	39.3	0.0
72.5°	132.3	89.4	42.9	0.0
70°	150.2	100.1	50.1	0.0
67.5°	171.7	110.9	57.2	0.0
65°	189.5	125.2	60.8	0.0
62.5°	207.4	135.9	67.9	0.0
60°	225.3	146.6	71.5	0.0
57.5°	243.2	157.4	78.7	0.0
55°	261.1	171.7	85.8	0.0
52.5°	278.9	182.4	89.4	0.0
50°	296.8	193.1	93.0	0.0
47.5°	311.1	203.8	100.1	0.0
45°	329.0	214.6	103.7	0.0
42.5°	346.9	221.7	107.3	0.0
40°	361.2	232.5	110.9	0.0
37.5°	379.1	239.6	118.0	0.0
35°	393.4	250.3	121.6	0.0
32.5°	404.1	257.5	125.2	0.0
30°	418.4	264.6	128.7	0.0
27.5°	429.1	271.8	128.7	0.0
25°	439.9	278.9	132.3	0.0
22.5°	450.6	282.5	135.9	0.0
20°	461.3	289.7	139.5	0.0
17.5°	468.5	293.2	139.5	0.0
15°	475.6	296.8	146.6	0.0
12.5°	479.2	300.4	146.6	0.0
10°	486.4	307.6	146.6	0.0
7.5°	493.5	307.6	146.6	0.0
5°	493.5	307.6	146.6	0.0
2.5°	493.5	307.6	146.6	0.0
0°	493.5	307.6	146.6	0.0

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