

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: P624027

Luminaire Tested: **IFLD-S-SA6D-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624027
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34893.7 lumens	Max Intensity:	19379.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	94.8 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:	15098.2 lumens	Field Lumens:	24722.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

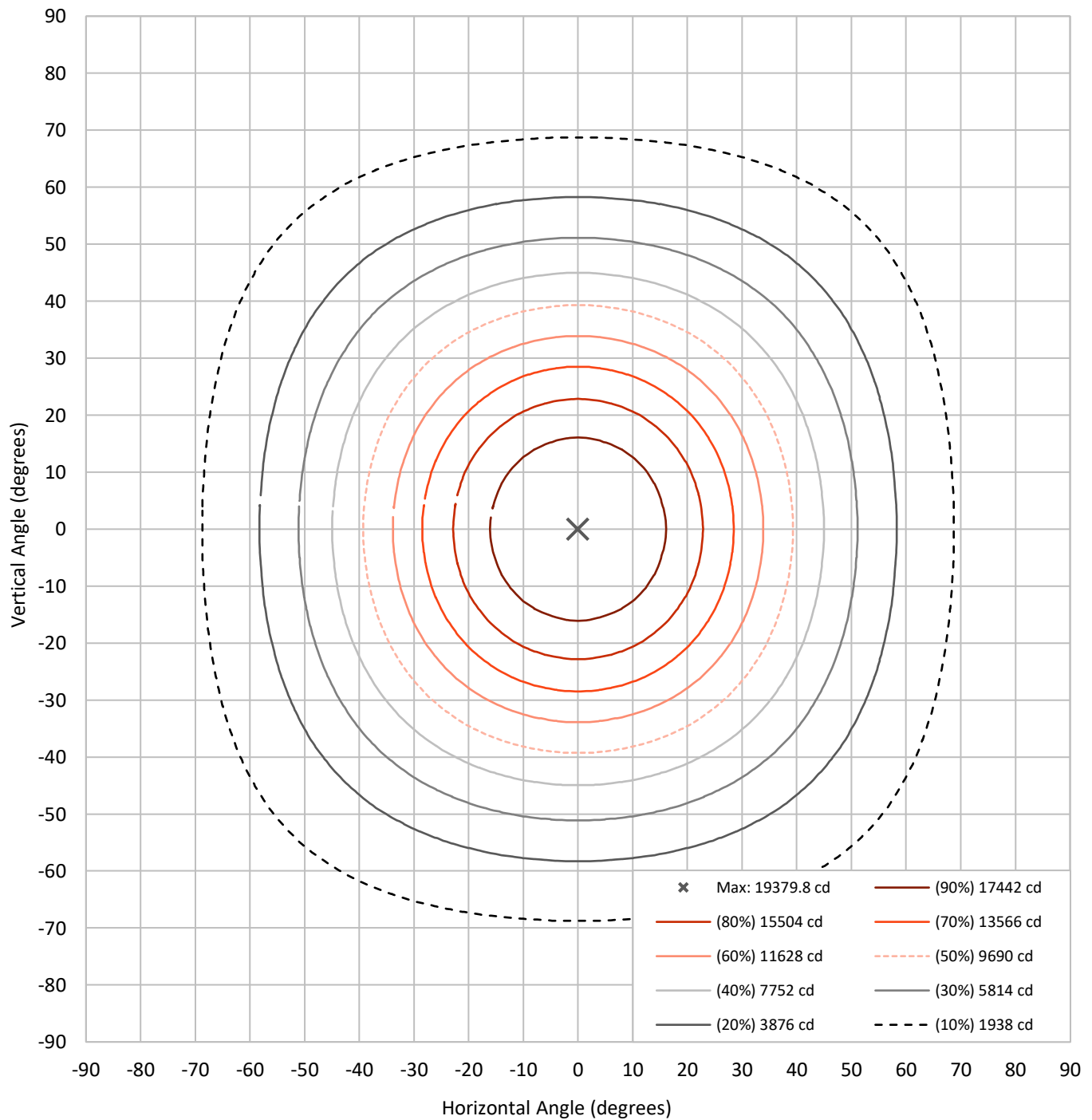
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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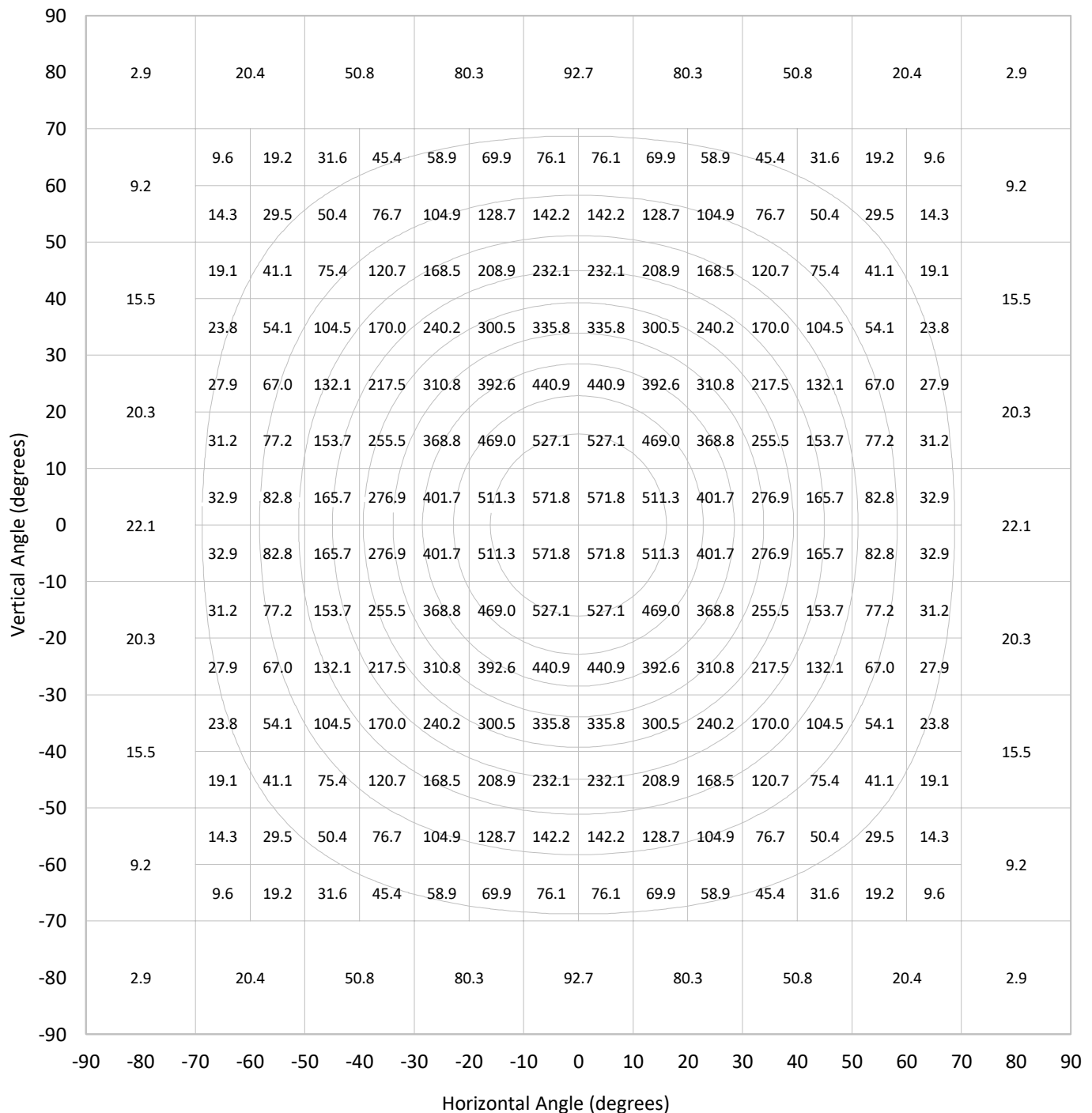
CATALOG NUMBER: IFLD-S-SA6D-827-U-77

Iso-Candela Plot



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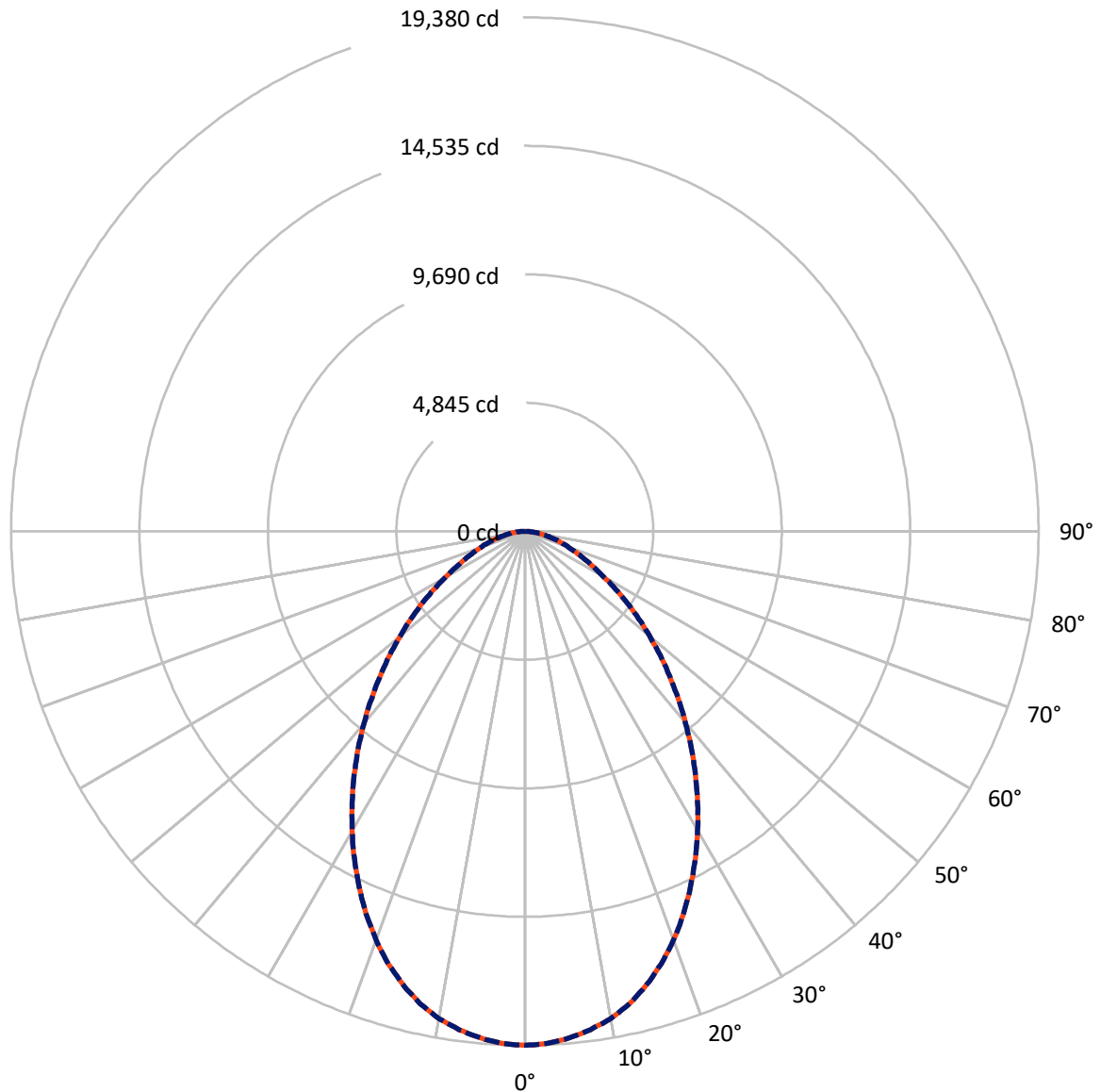
Lumen Table



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Luminous Intensity Polar Plot

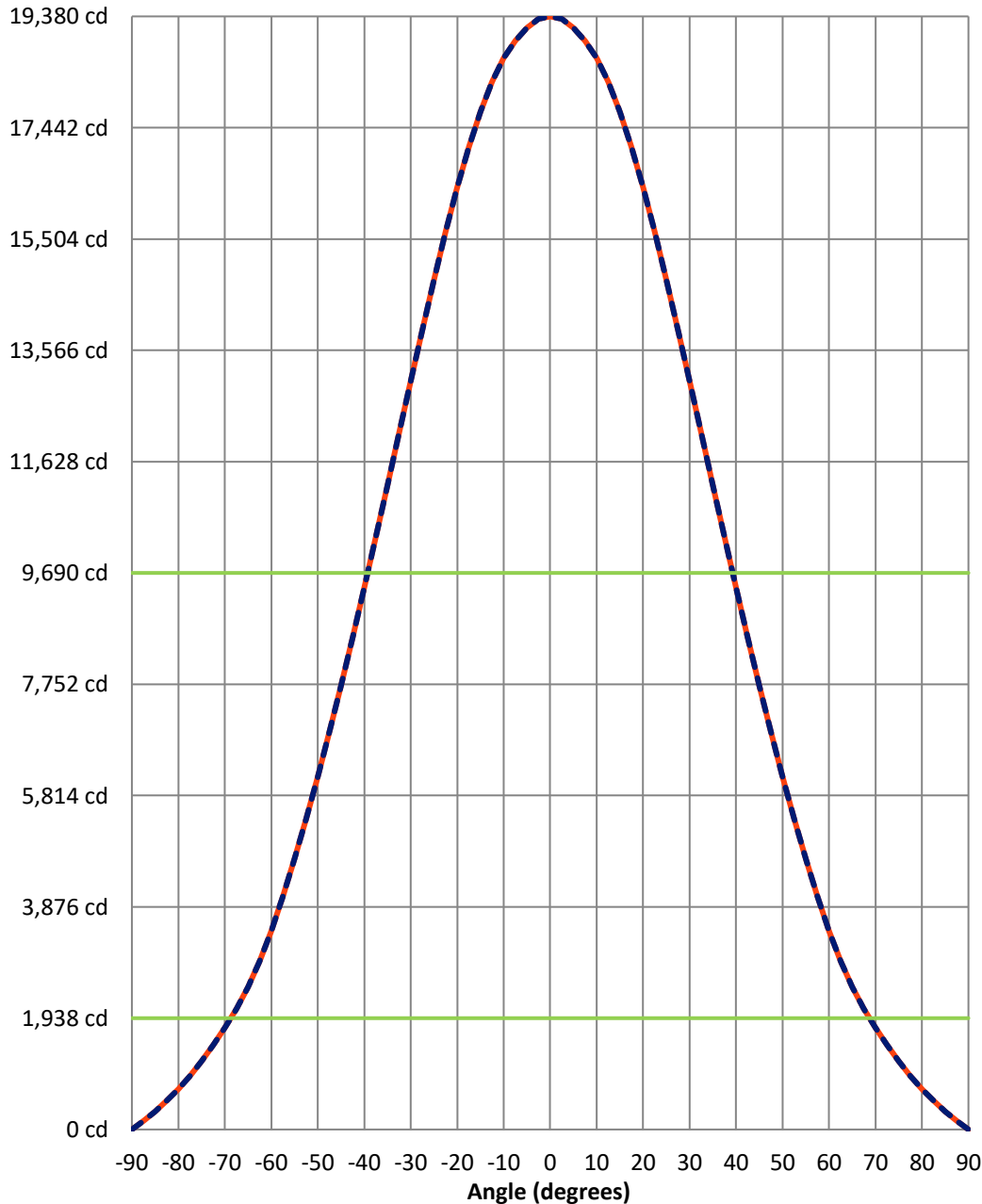


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg

Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15098.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 24722.7
Efficiency: 70.9%

Spill:

Lumens: 10171
Efficiency: 29.1%

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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°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	141.9	141.9	138.2	134.6
85°	312.9	312.9	312.9	312.9	312.9	305.6	302.0	298.3	294.7	287.4	283.8
82.5°	502.0	502.0	502.0	502.0	494.8	487.5	483.9	476.6	469.3	458.4	447.5
80°	702.1	702.1	702.1	702.1	691.2	683.9	673.0	665.8	654.8	640.3	625.7
77.5°	931.3	931.3	931.3	920.4	913.1	902.2	891.3	876.8	862.2	844.0	822.2
75°	1189.6	1189.6	1189.6	1175.1	1164.2	1153.3	1135.1	1116.9	1095.0	1069.6	1040.5
72.5°	1469.8	1469.8	1469.8	1451.6	1440.7	1422.5	1400.6	1375.2	1349.7	1317.0	1280.6
70°	1771.7	1771.7	1771.7	1749.9	1731.7	1713.5	1684.4	1655.3	1618.9	1582.5	1538.9
67.5°	2099.1	2099.1	2099.1	2073.7	2051.8	2026.4	1993.6	1957.3	1913.6	1862.7	1811.7
65°	2481.1	2481.1	2466.6	2444.8	2419.3	2382.9	2342.9	2292.0	2237.4	2171.9	2102.8
62.5°	2932.2	2932.2	2910.4	2885.0	2852.2	2804.9	2750.3	2684.9	2608.5	2524.8	2441.1
60°	3456.1	3456.1	3430.7	3397.9	3350.6	3292.4	3219.7	3136.0	3041.4	2935.9	2834.0
57.5°	4060.0	4060.0	4027.3	3983.6	3925.4	3852.7	3761.7	3656.2	3536.2	3405.2	3277.9
55°	4714.9	4714.9	4674.9	4623.9	4554.8	4467.5	4358.4	4234.7	4089.1	3940.0	3776.3
52.5°	5409.7	5409.7	5362.4	5304.2	5224.2	5122.3	4998.6	4853.1	4685.8	4511.2	4318.3
50°	6141.0	6141.0	6086.4	6020.9	5930.0	5809.9	5668.0	5500.7	5315.2	5111.4	4889.5
47.5°	6923.2	6923.2	6861.3	6784.9	6675.8	6537.5	6370.2	6177.4	5966.4	5737.2	5486.1
45°	7727.2	7727.2	7658.0	7570.7	7450.7	7294.2	7108.7	6923.2	6653.9	6388.4	6097.3
42.5°	8563.9	8563.9	8483.9	8385.6	8247.4	8076.4	7865.4	7625.3	7359.7	7061.4	6744.9
40°	9433.4	9433.4	9342.5	9229.7	9076.9	8880.4	8643.9	8374.7	8076.4	7745.4	7396.1
37.5°	10321.1	10321.1	10219.2	10095.5	9924.5	9706.3	9440.7	9142.4	8807.7	8440.2	8054.6
35°	11216.0	11216.0	11103.3	10968.6	10779.5	10539.4	10252.0	9920.9	9549.8	9149.6	8716.7
32.5°	12129.2	12129.2	12005.5	11852.7	11638.0	11372.5	11056.0	10695.8	10321.1	9855.4	9382.5
30°	13031.4	13031.4	12896.8	12729.5	12500.3	12209.2	11863.6	11467.1	11026.9	10550.3	10041.0
27.5°	13919.1	13882.7	13769.9	13591.7	13340.6	13031.4	12656.7	12227.4	11750.8	11226.9	10681.2
25°	14792.2	14752.2	14628.5	14432.0	14162.8	13824.5	13420.7	12962.3	12449.3	11896.3	11299.7
22.5°	15629.0	15585.3	15454.3	15243.3	14955.9	14588.5	14155.6	13664.4	13118.7	12525.7	11896.3
20°	16403.9	16356.6	16222.0	16000.0	15701.7	15312.5	14854.1	14326.5	13744.5	13118.7	12449.3
17.5°	17102.4	17055.1	16913.2	16684.0	16403.9	15970.9	15498.0	14941.4	14326.5	13664.4	12962.3
15°	17717.2	17666.3	17520.7	17291.5	16971.4	16563.9	16065.5	15498.0	14854.1	14155.6	13420.7
12.5°	18241.1	18190.1	18041.0	17811.8	17480.7	17073.3	16563.9	15970.9	15312.5	14588.5	13824.5
10°	18655.8	18604.9	18463.0	18244.7	17902.7	17480.7	16971.4	16403.9	15701.7	14955.9	14162.8
7.5°	18954.1	18906.8	18775.9	18557.6	18244.7	17811.8	17291.5	16684.0	16000.0	15243.3	14432.0
5°	19179.7	19125.1	18994.1	18775.9	18463.0	18041.0	17520.7	16913.2	16222.0	15454.3	14628.5
2.5°	19336.1	19270.6	19125.1	18906.8	18604.9	18190.1	17666.3	17055.1	16356.6	15585.3	14752.2
0°	19379.8	19336.1	19179.7	18954.1	18655.8	18241.1	17717.2	17102.4	16403.9	15629.0	14792.2

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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°	131.0	131.0	127.3	123.7	120.1	112.8	109.1	105.5	101.9	94.6	91.0
85°	276.5	269.2	261.9	254.7	243.7	236.5	225.6	218.3	207.4	196.5	185.5
82.5°	436.6	425.6	411.1	400.2	385.6	367.4	352.9	334.7	316.5	302.0	283.8
80°	611.2	593.0	574.8	556.6	534.8	513.0	491.1	469.3	443.8	418.4	392.9
77.5°	800.4	774.9	749.4	720.3	694.9	665.8	636.7	607.6	574.8	542.1	509.3
75°	1011.4	978.6	942.2	905.9	873.1	833.1	793.1	753.1	709.4	669.4	625.7
72.5°	1240.6	1200.5	1156.9	1113.2	1065.9	1015.0	964.1	909.5	858.6	807.6	753.1
70°	1488.0	1440.7	1386.1	1331.5	1273.3	1211.5	1149.6	1084.1	1018.6	953.2	887.7
67.5°	1753.5	1695.3	1629.8	1564.4	1491.6	1418.8	1346.1	1269.7	1189.6	1109.6	1033.2
65°	2037.3	1964.5	1888.1	1804.5	1720.8	1637.1	1549.8	1458.8	1367.9	1273.3	1189.6
62.5°	2353.8	2262.9	2164.6	2062.8	1968.2	1866.3	1771.7	1658.9	1549.8	1444.3	1338.8
60°	2721.2	2601.2	2481.1	2353.8	2233.7	2102.8	1986.4	1862.7	1739.0	1618.9	1495.2
57.5°	3132.3	2979.5	2834.0	2681.2	2521.2	2375.6	2226.5	2077.3	1939.1	1797.2	1662.6
55°	3598.0	3412.5	3230.6	3041.4	2855.9	2673.9	2484.8	2317.4	2146.4	1986.4	1829.9
52.5°	4107.3	3896.3	3670.8	3456.1	3219.7	2994.1	2783.1	2572.1	2372.0	2179.2	2000.9
50°	4653.0	4405.6	4147.3	3885.4	3616.2	3350.6	3096.0	2848.6	2615.7	2390.2	2179.2
47.5°	5220.6	4940.4	4645.8	4347.4	4060.0	3736.3	3430.7	3150.5	2870.4	2615.7	2372.0
45°	5802.7	5486.1	5162.4	4824.0	4485.7	4136.4	3798.1	3456.1	3150.5	2848.6	2572.1
42.5°	6402.9	6046.4	5686.2	5311.5	4936.8	4554.8	4172.8	3798.1	3430.7	3096.0	2783.1
40°	7021.4	6628.5	6217.4	5809.9	5409.7	4973.2	4554.8	4136.4	3736.3	3350.6	2994.1
37.5°	7639.9	7210.6	6766.7	6308.3	5849.9	5409.7	4936.8	4485.7	4060.0	3616.2	3219.7
35°	8262.0	7789.0	7308.8	6810.4	6308.3	5809.9	5311.5	4824.0	4347.4	3885.4	3456.1
32.5°	8887.7	8371.1	7839.9	7308.8	6766.7	6217.4	5686.2	5162.4	4645.8	4147.3	3670.8
30°	9502.5	8942.3	8371.1	7789.0	7210.6	6628.5	6046.4	5486.1	4940.4	4405.6	3896.3
27.5°	10102.8	9502.5	8887.7	8262.0	7639.9	7021.4	6402.9	5802.7	5220.6	4653.0	4107.3
25°	10681.2	10041.0	9382.5	8716.7	8054.6	7396.1	6744.9	6097.3	5486.1	4889.5	4318.3
22.5°	11226.9	10550.3	9855.4	9149.6	8440.2	7745.4	7061.4	6388.4	5737.2	5111.4	4511.2
20°	11750.8	11026.9	10321.1	9549.8	8807.7	8076.4	7359.7	6653.9	5966.4	5315.2	4685.8
17.5°	12227.4	11467.1	10695.8	9920.9	9142.4	8374.7	7625.3	6923.2	6177.4	5500.7	4853.1
15°	12656.7	11863.6	11056.0	10252.0	9440.7	8643.9	7865.4	7108.7	6370.2	5668.0	4998.6
12.5°	13031.4	12209.2	11372.5	10539.4	9706.3	8880.4	8076.4	7294.2	6537.5	5809.9	5122.3
10°	13340.6	12500.3	11638.0	10779.5	9924.5	9076.9	8247.4	7450.7	6675.8	5930.0	5224.2
7.5°	13591.7	12729.5	11852.7	10968.6	10095.5	9229.7	8385.6	7570.7	6784.9	6020.9	5304.2
5°	13769.9	12896.8	12005.5	11103.3	10219.2	9342.5	8483.9	7658.0	6861.3	6086.4	5362.4
2.5°	13882.7	13031.4	12129.2	11216.0	10321.1	9433.4	8563.9	7727.2	6923.2	6141.0	5409.7
0°	13919.1	13031.4	12129.2	11216.0	10321.1	9433.4	8563.9	7727.2	6923.2	6141.0	5409.7

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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°	87.3	80.0	72.8	69.1	61.8	58.2	50.9	43.7	40.0	32.7	25.5
85°	174.6	160.1	149.2	138.2	127.3	112.8	101.9	91.0	76.4	65.5	50.9
82.5°	265.6	247.4	229.2	211.0	192.8	174.6	152.8	134.6	116.4	98.2	76.4
80°	367.4	338.3	312.9	287.4	261.9	236.5	207.4	181.9	152.8	127.3	101.9
77.5°	472.9	440.2	403.8	367.4	331.1	298.3	261.9	229.2	196.5	160.1	127.3
75°	585.7	542.1	502.0	454.8	411.1	363.8	320.1	276.5	236.5	196.5	152.8
72.5°	702.1	647.6	593.0	542.1	487.5	432.9	382.0	327.4	276.5	229.2	181.9
70°	822.2	756.7	691.2	629.4	567.5	502.0	443.8	382.0	320.1	261.9	207.4
67.5°	949.5	873.1	796.7	716.7	647.6	574.8	502.0	432.9	363.8	298.3	236.5
65°	1087.8	996.8	902.2	818.6	727.6	647.6	567.5	487.5	411.1	331.1	261.9
62.5°	1229.7	1124.1	1018.6	913.1	818.6	716.7	629.4	542.1	454.8	367.4	287.4
60°	1375.2	1255.1	1135.1	1018.6	902.2	796.7	691.2	593.0	502.0	403.8	312.9
57.5°	1524.3	1389.7	1255.1	1124.1	996.8	873.1	756.7	647.6	542.1	440.2	338.3
55°	1677.1	1524.3	1375.2	1229.7	1087.8	949.5	822.2	702.1	585.7	472.9	367.4
52.5°	1829.9	1662.6	1495.2	1338.8	1189.6	1033.2	887.7	753.1	625.7	509.3	392.9
50°	1986.4	1797.2	1618.9	1444.3	1273.3	1109.6	953.2	807.6	669.4	542.1	418.4
47.5°	2146.4	1939.1	1739.0	1549.8	1367.9	1189.6	1018.6	858.6	709.4	574.8	443.8
45°	2317.4	2077.3	1862.7	1658.9	1458.8	1269.7	1084.1	909.5	753.1	607.6	469.3
42.5°	2484.8	2226.5	1986.4	1771.7	1549.8	1346.1	1149.6	964.1	793.1	636.7	491.1
40°	2673.9	2375.6	2102.8	1866.3	1637.1	1418.8	1211.5	1015.0	833.1	665.8	513.0
37.5°	2855.9	2521.2	2233.7	1968.2	1720.8	1491.6	1273.3	1065.9	873.1	694.9	534.8
35°	3041.4	2681.2	2353.8	2062.8	1804.5	1564.4	1331.5	1113.2	905.9	720.3	556.6
32.5°	3230.6	2834.0	2481.1	2164.6	1888.1	1629.8	1386.1	1156.9	942.2	749.4	574.8
30°	3412.5	2979.5	2601.2	2262.9	1964.5	1695.3	1440.7	1200.5	978.6	774.9	593.0
27.5°	3598.0	3132.3	2721.2	2353.8	2037.3	1753.5	1488.0	1240.6	1011.4	800.4	611.2
25°	3776.3	3277.9	2834.0	2441.1	2102.8	1811.7	1538.9	1280.6	1040.5	822.2	625.7
22.5°	3940.0	3405.2	2935.9	2524.8	2171.9	1862.7	1582.5	1317.0	1069.6	844.0	640.3
20°	4089.1	3536.2	3041.4	2608.5	2237.4	1913.6	1618.9	1349.7	1095.0	862.2	654.8
17.5°	4234.7	3656.2	3136.0	2684.9	2292.0	1957.3	1655.3	1375.2	1116.9	876.8	665.8
15°	4358.4	3761.7	3219.7	2750.3	2342.9	1993.6	1684.4	1400.6	1135.1	891.3	673.0
12.5°	4467.5	3852.7	3292.4	2804.9	2382.9	2026.4	1713.5	1422.5	1153.3	902.2	683.9
10°	4554.8	3925.4	3350.6	2852.2	2419.3	2051.8	1731.7	1440.7	1164.2	913.1	691.2
7.5°	4623.9	3983.6	3397.9	2885.0	2444.8	2073.7	1749.9	1451.6	1175.1	920.4	702.1
5°	4674.9	4027.3	3430.7	2910.4	2466.6	2099.1	1771.7	1469.8	1189.6	931.3	702.1
2.5°	4714.9	4060.0	3456.1	2932.2	2481.1	2099.1	1771.7	1469.8	1189.6	931.3	702.1
0°	4714.9	4060.0	3456.1	2932.2	2481.1	2099.1	1771.7	1469.8	1189.6	931.3	702.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.2	14.6	7.3	0.0
85°	40.0	25.5	14.6	0.0
82.5°	58.2	40.0	18.2	0.0
80°	76.4	50.9	25.5	0.0
77.5°	98.2	65.5	32.7	0.0
75°	116.4	76.4	40.0	0.0
72.5°	134.6	91.0	43.7	0.0
70°	152.8	101.9	50.9	0.0
67.5°	174.6	112.8	58.2	0.0
65°	192.8	127.3	61.8	0.0
62.5°	211.0	138.2	69.1	0.0
60°	229.2	149.2	72.8	0.0
57.5°	247.4	160.1	80.0	0.0
55°	265.6	174.6	87.3	0.0
52.5°	283.8	185.5	91.0	0.0
50°	302.0	196.5	94.6	0.0
47.5°	316.5	207.4	101.9	0.0
45°	334.7	218.3	105.5	0.0
42.5°	352.9	225.6	109.1	0.0
40°	367.4	236.5	112.8	0.0
37.5°	385.6	243.7	120.1	0.0
35°	400.2	254.7	123.7	0.0
32.5°	411.1	261.9	127.3	0.0
30°	425.6	269.2	131.0	0.0
27.5°	436.6	276.5	131.0	0.0
25°	447.5	283.8	134.6	0.0
22.5°	458.4	287.4	138.2	0.0
20°	469.3	294.7	141.9	0.0
17.5°	476.6	298.3	141.9	0.0
15°	483.9	302.0	149.2	0.0
12.5°	487.5	305.6	149.2	0.0
10°	494.8	312.9	149.2	0.0
7.5°	502.0	312.9	149.2	0.0
5°	502.0	312.9	149.2	0.0
2.5°	502.0	312.9	149.2	0.0
0°	502.0	312.9	149.2	0.0

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