

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: P624026

Luminaire Tested: **IFLD-S-SA6C-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624026
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-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

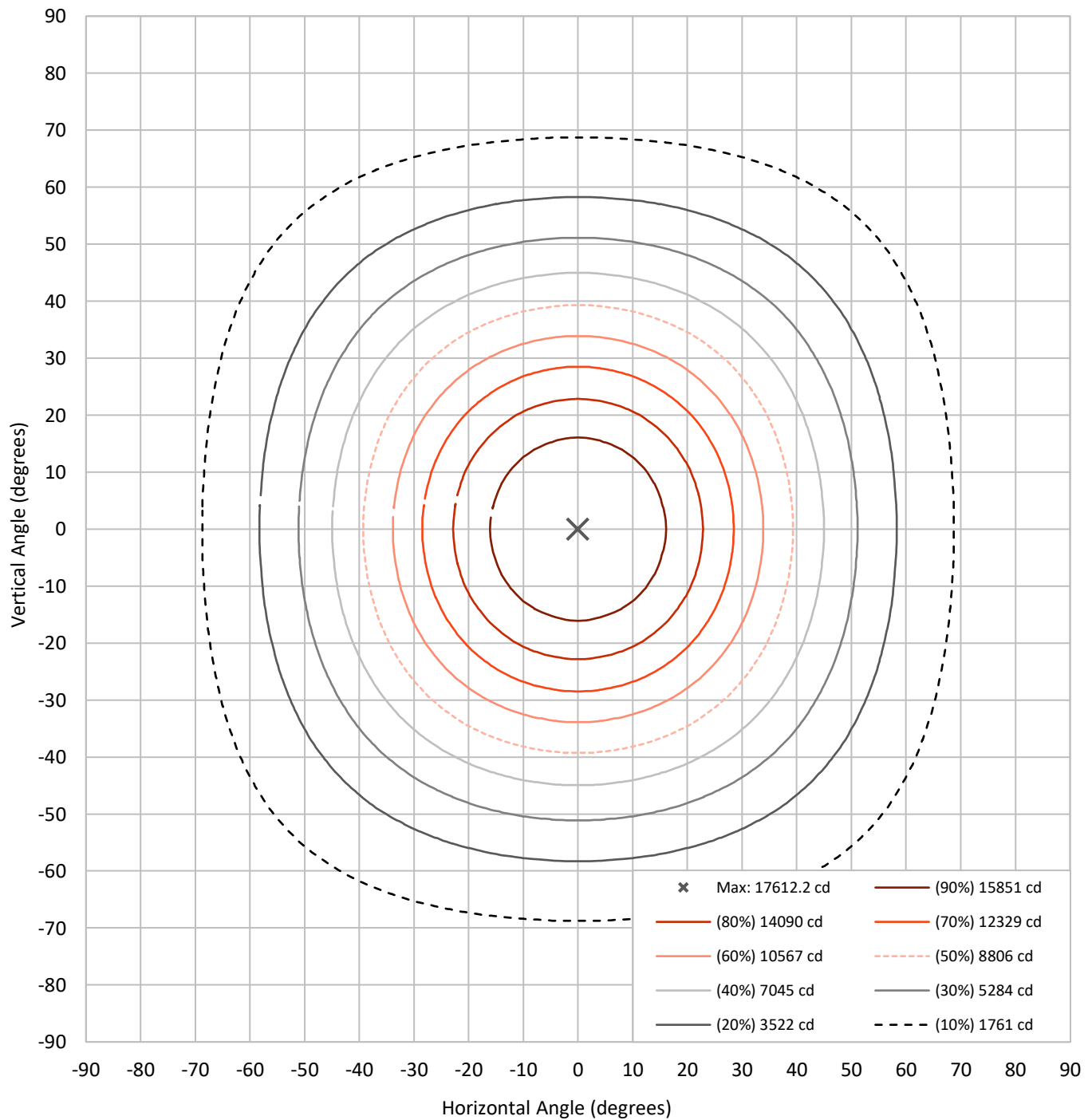
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	31711.2 lumens	Max Intensity:	17612.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13721.1 lumens	Field Lumens:	22467.9 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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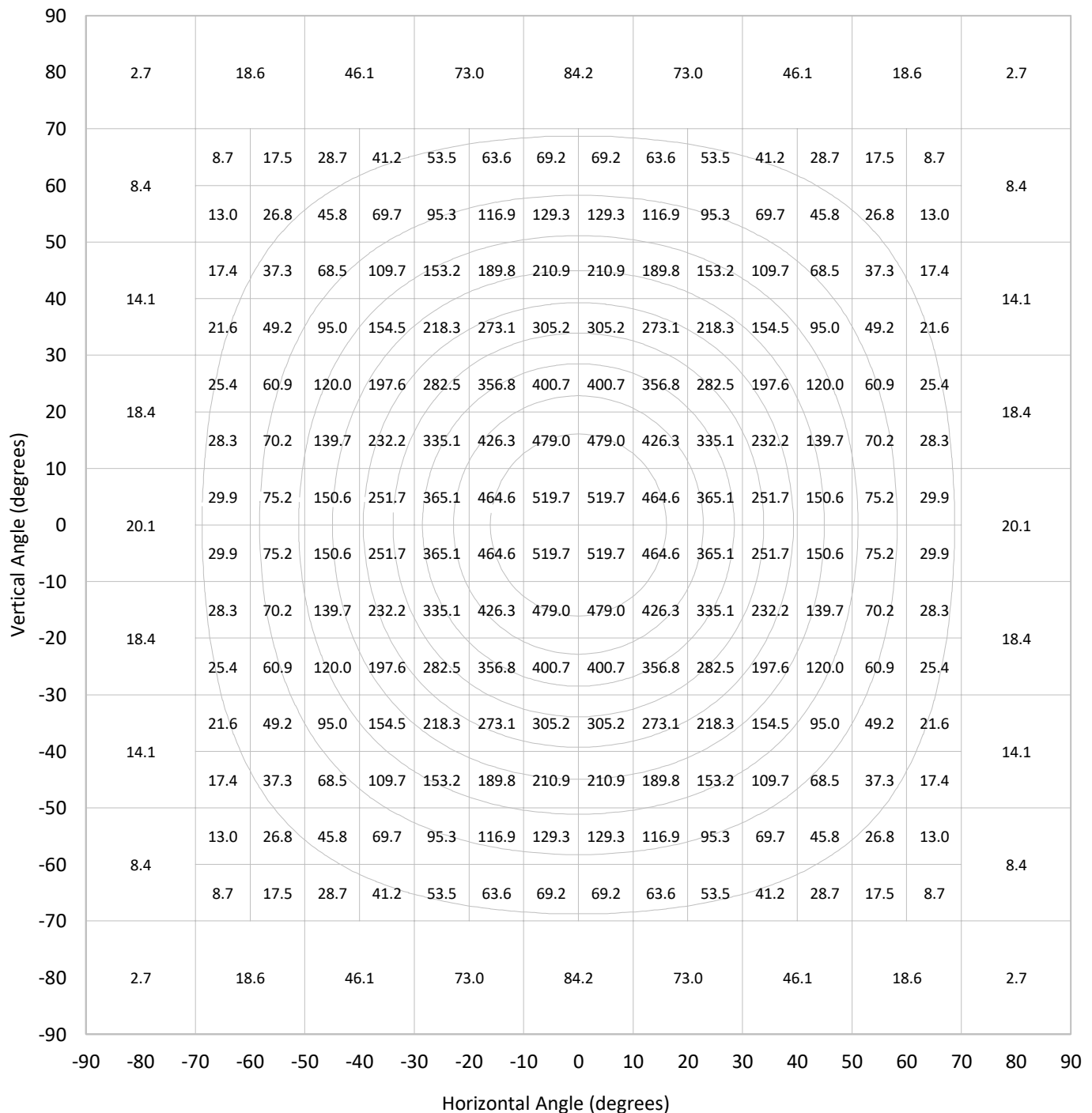
CATALOG NUMBER: IFLD-S-SA6C-827-U-77

Iso-Candela Plot



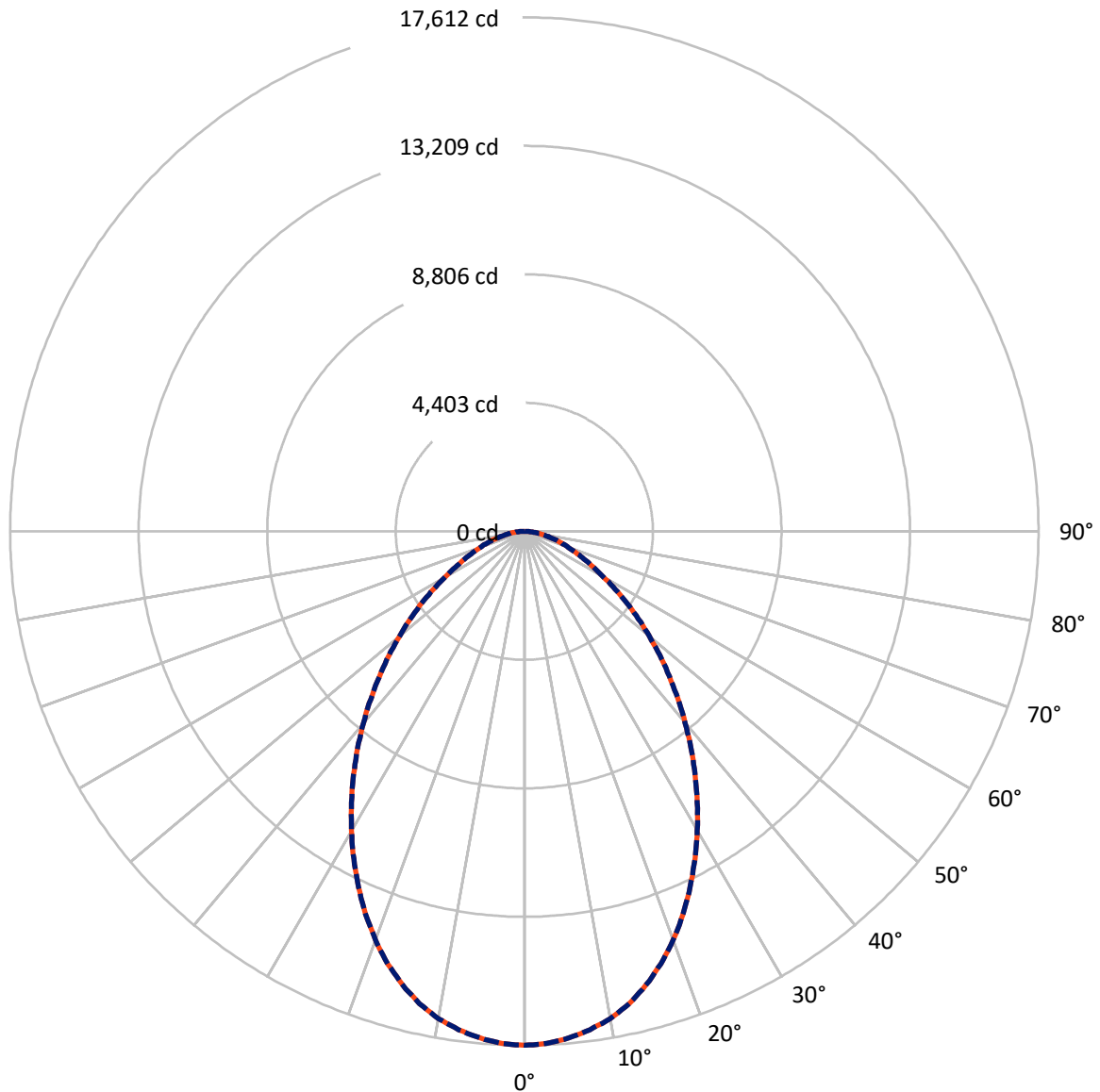
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Lumen Table



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Luminous Intensity Polar Plot

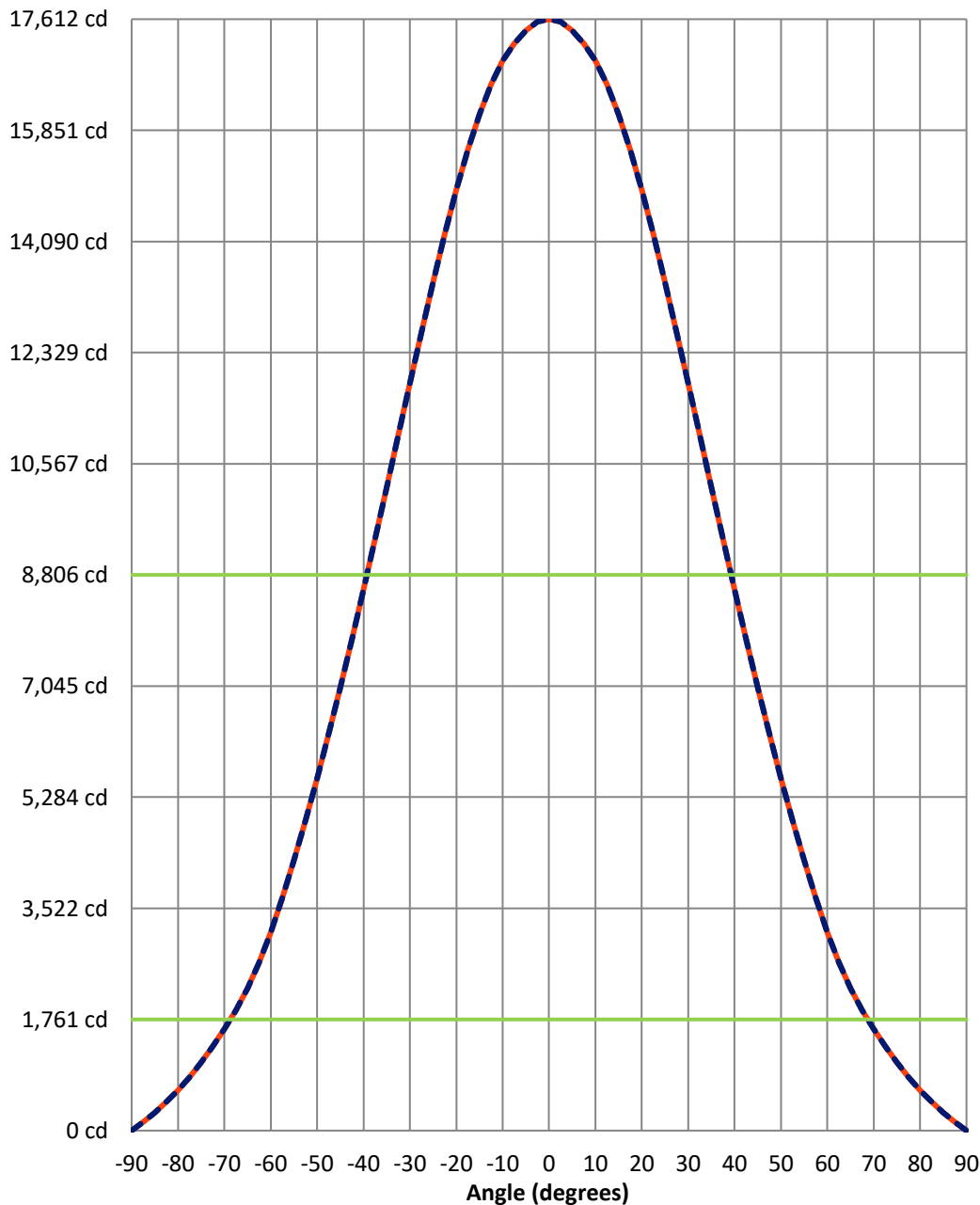


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°

V Angle: 78.6°

Lumens: 13721.1

Efficiency: 43.3%

Field:

H Angle: 137.5°

V Angle: 137.5°

Lumens: 22467.9

Efficiency: 70.9%

Spill:

Lumens: 9243.3

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°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	128.9	128.9	125.6	122.3
85°	284.3	284.3	284.3	284.3	284.3	277.7	274.4	271.1	267.8	261.2	257.9
82.5°	456.3	456.3	456.3	456.3	449.6	443.0	439.7	433.1	426.5	416.6	406.7
80°	638.1	638.1	638.1	638.1	628.2	621.6	611.7	605.0	595.1	581.9	568.7
77.5°	846.4	846.4	846.4	836.5	829.9	819.9	810.0	796.8	783.6	767.0	747.2
75°	1081.1	1081.1	1081.1	1067.9	1058.0	1048.1	1031.5	1015.0	995.2	972.0	945.6
72.5°	1335.7	1335.7	1335.7	1319.2	1309.3	1292.7	1272.9	1249.8	1226.6	1196.9	1163.8
70°	1610.1	1610.1	1610.1	1590.3	1573.8	1557.2	1530.8	1504.3	1471.3	1438.2	1398.5
67.5°	1907.7	1907.7	1907.7	1884.5	1864.7	1841.6	1811.8	1778.7	1739.1	1692.8	1646.5
65°	2254.8	2254.8	2241.6	2221.8	2198.6	2165.6	2129.2	2082.9	2033.3	1973.8	1911.0
62.5°	2664.8	2664.8	2645.0	2621.8	2592.1	2549.1	2499.5	2440.0	2370.6	2294.5	2218.5
60°	3140.9	3140.9	3117.8	3088.0	3045.0	2992.1	2926.0	2850.0	2764.0	2668.1	2575.5
57.5°	3689.7	3689.7	3660.0	3620.3	3567.4	3501.3	3418.6	3322.8	3213.6	3094.6	2978.9
55°	4284.9	4284.9	4248.5	4202.2	4139.4	4060.0	3960.9	3848.4	3716.2	3580.6	3431.9
52.5°	4916.4	4916.4	4873.4	4820.5	4747.7	4655.2	4542.8	4410.5	4258.4	4099.7	3924.5
50°	5580.9	5580.9	5531.3	5471.8	5389.1	5280.0	5151.1	4999.0	4830.4	4645.2	4443.6
47.5°	6291.7	6291.7	6235.5	6166.1	6066.9	5941.3	5789.2	5614.0	5422.2	5213.9	4985.8
45°	7022.4	7022.4	6959.6	6880.2	6771.1	6629.0	6460.4	6291.7	6047.1	5805.7	5541.2
42.5°	7782.8	7782.8	7710.1	7620.8	7495.2	7339.8	7148.1	6929.8	6688.5	6417.4	6129.7
40°	8573.0	8573.0	8490.4	8387.9	8249.0	8070.5	7855.6	7610.9	7339.8	7038.9	6721.6
37.5°	9379.8	9379.8	9287.2	9174.8	9019.4	8821.0	8579.6	8308.5	8004.4	7670.4	7320.0
35°	10193.1	10193.1	10090.6	9968.3	9796.3	9578.1	9316.9	9016.1	8678.8	8315.2	7921.7
32.5°	11022.9	11022.9	10910.5	10771.7	10576.6	10335.3	10047.6	9720.3	9379.8	8956.6	8526.7
30°	11842.9	11842.9	11720.6	11568.5	11360.2	11095.7	10781.6	10421.2	10021.2	9588.0	9125.2
27.5°	12649.6	12616.5	12514.1	12352.0	12123.9	11842.9	11502.3	11112.2	10679.1	10203.0	9707.1
25°	13443.1	13406.7	13294.3	13115.8	12871.1	12563.6	12196.7	11780.1	11313.9	10811.3	10269.1
22.5°	14203.5	14163.9	14044.8	13853.1	13591.9	13258.0	12864.5	12418.2	11922.2	11383.3	10811.3
20°	14907.8	14864.8	14742.4	14540.8	14269.7	13915.9	13499.3	13019.9	12490.9	11922.2	11313.9
17.5°	15542.6	15499.6	15370.6	15162.3	14907.8	14514.3	14084.5	13578.7	13019.9	12418.2	11780.1
15°	16101.3	16055.0	15922.8	15714.5	15423.5	15053.2	14600.3	14084.5	13499.3	12864.5	12196.7
12.5°	16577.4	16531.1	16395.6	16187.3	15886.4	15516.1	15053.2	14514.3	13915.9	13258.0	12563.6
10°	16954.3	16908.0	16779.1	16580.7	16269.9	15886.4	15423.5	14907.8	14269.7	13591.9	12871.1
7.5°	17225.4	17182.4	17063.4	16865.0	16580.7	16187.3	15714.5	15162.3	14540.8	13853.1	13115.8
5°	17430.4	17380.8	17261.8	17063.4	16779.1	16395.6	15922.8	15370.6	14742.4	14044.8	13294.3
2.5°	17572.6	17513.1	17380.8	17182.4	16908.0	16531.1	16055.0	15499.6	14864.8	14163.9	13406.7
0°	17612.2	17572.6	17430.4	17225.4	16954.3	16577.4	16101.3	15542.6	14907.8	14203.5	13443.1

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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°	119.0	119.0	115.7	112.4	109.1	102.5	99.2	95.9	92.6	86.0	82.7
85°	251.3	244.7	238.0	231.4	221.5	214.9	205.0	198.4	188.5	178.5	168.6
82.5°	396.7	386.8	373.6	363.7	350.5	333.9	320.7	304.2	287.6	274.4	257.9
80°	555.4	538.9	522.4	505.9	486.0	466.2	446.3	426.5	403.4	380.2	357.1
77.5°	727.4	704.2	681.1	654.6	631.5	605.0	578.6	552.1	522.4	492.6	462.9
75°	919.1	889.4	856.3	823.2	793.5	757.1	720.8	684.4	644.7	608.3	568.7
72.5°	1127.4	1091.1	1051.4	1011.7	968.7	922.4	876.1	826.6	780.3	734.0	684.4
70°	1352.2	1309.3	1259.7	1210.1	1157.2	1101.0	1044.8	985.3	925.7	866.2	806.7
67.5°	1593.6	1540.7	1481.2	1421.7	1355.6	1289.4	1223.3	1153.9	1081.1	1008.4	939.0
65°	1851.5	1785.4	1715.9	1639.9	1563.8	1487.8	1408.5	1325.8	1243.1	1157.2	1081.1
62.5°	2139.1	2056.5	1967.2	1874.6	1788.7	1696.1	1610.1	1507.6	1408.5	1312.6	1216.7
60°	2473.1	2363.9	2254.8	2139.1	2030.0	1911.0	1805.2	1692.8	1580.4	1471.3	1358.9
57.5°	2846.7	2707.8	2575.5	2436.7	2291.2	2159.0	2023.4	1887.9	1762.2	1633.3	1510.9
55°	3269.9	3101.2	2935.9	2764.0	2595.4	2430.1	2258.2	2106.1	1950.7	1805.2	1663.0
52.5°	3732.7	3541.0	3336.0	3140.9	2926.0	2721.0	2529.3	2337.5	2155.7	1980.4	1818.4
50°	4228.7	4003.8	3769.1	3531.0	3286.4	3045.0	2813.6	2588.8	2377.2	2172.2	1980.4
47.5°	4744.4	4489.9	4222.0	3950.9	3689.7	3395.5	3117.8	2863.2	2608.6	2377.2	2155.7
45°	5273.4	4985.8	4691.5	4384.1	4076.6	3759.2	3451.7	3140.9	2863.2	2588.8	2337.5
42.5°	5819.0	5494.9	5167.6	4827.1	4486.5	4139.4	3792.2	3451.7	3117.8	2813.6	2529.3
40°	6381.0	6023.9	5650.3	5280.0	4916.4	4519.6	4139.4	3759.2	3395.5	3045.0	2721.0
37.5°	6943.1	6552.9	6149.6	5733.0	5316.4	4916.4	4486.5	4076.6	3689.7	3286.4	2926.0
35°	7508.4	7078.6	6642.2	6189.2	5733.0	5280.0	4827.1	4384.1	3950.9	3531.0	3140.9
32.5°	8077.1	7607.6	7124.9	6642.2	6149.6	5650.3	5167.6	4691.5	4222.0	3769.1	3336.0
30°	8635.9	8126.7	7607.6	7078.6	6552.9	6023.9	5494.9	4985.8	4489.9	4003.8	3541.0
27.5°	9181.4	8635.9	8077.1	7508.4	6943.1	6381.0	5819.0	5273.4	4744.4	4228.7	3732.7
25°	9707.1	9125.2	8526.7	7921.7	7320.0	6721.6	6129.7	5541.2	4985.8	4443.6	3924.5
22.5°	10203.0	9588.0	8956.6	8315.2	7670.4	7038.9	6417.4	5805.7	5213.9	4645.2	4099.7
20°	10679.1	10021.2	9379.8	8678.8	8004.4	7339.8	6688.5	6047.1	5422.2	4830.4	4258.4
17.5°	11112.2	10421.2	9720.3	9016.1	8308.5	7610.9	6929.8	6291.7	5614.0	4999.0	4410.5
15°	11502.3	10781.6	10047.6	9316.9	8579.6	7855.6	7148.1	6460.4	5789.2	5151.1	4542.8
12.5°	11842.9	11095.7	10335.3	9578.1	8821.0	8070.5	7339.8	6629.0	5941.3	5280.0	4655.2
10°	12123.9	11360.2	10576.6	9796.3	9019.4	8249.0	7495.2	6771.1	6066.9	5389.1	4747.7
7.5°	12352.0	11568.5	10771.7	9968.3	9174.8	8387.9	7620.8	6880.2	6166.1	5471.8	4820.5
5°	12514.1	11720.6	10910.5	10090.6	9287.2	8490.4	7710.1	6959.6	6235.5	5531.3	4873.4
2.5°	12616.5	11842.9	11022.9	10193.1	9379.8	8573.0	7782.8	7022.4	6291.7	5580.9	4916.4
0°	12649.6	11842.9	11022.9	10193.1	9379.8	8573.0	7782.8	7022.4	6291.7	5580.9	4916.4

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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°	79.3	72.7	66.1	62.8	56.2	52.9	46.3	39.7	36.4	29.8	23.1
85°	158.7	145.5	135.6	125.6	115.7	102.5	92.6	82.7	69.4	59.5	46.3
82.5°	241.4	224.8	208.3	191.8	175.2	158.7	138.9	122.3	105.8	89.3	69.4
80°	333.9	307.5	284.3	261.2	238.0	214.9	188.5	165.3	138.9	115.7	92.6
77.5°	429.8	400.1	367.0	333.9	300.9	271.1	238.0	208.3	178.5	145.5	115.7
75°	532.3	492.6	456.3	413.3	373.6	330.6	290.9	251.3	214.9	178.5	138.9
72.5°	638.1	588.5	538.9	492.6	443.0	393.4	347.2	297.6	251.3	208.3	165.3
70°	747.2	687.7	628.2	572.0	515.8	456.3	403.4	347.2	290.9	238.0	188.5
67.5°	862.9	793.5	724.1	651.3	588.5	522.4	456.3	393.4	330.6	271.1	214.9
65°	988.6	905.9	819.9	743.9	661.2	588.5	515.8	443.0	373.6	300.9	238.0
62.5°	1117.5	1021.6	925.7	829.9	743.9	651.3	572.0	492.6	413.3	333.9	261.2
60°	1249.8	1140.6	1031.5	925.7	819.9	724.1	628.2	538.9	456.3	367.0	284.3
57.5°	1385.3	1263.0	1140.6	1021.6	905.9	793.5	687.7	588.5	492.6	400.1	307.5
55°	1524.2	1385.3	1249.8	1117.5	988.6	862.9	747.2	638.1	532.3	429.8	333.9
52.5°	1663.0	1510.9	1358.9	1216.7	1081.1	939.0	806.7	684.4	568.7	462.9	357.1
50°	1805.2	1633.3	1471.3	1312.6	1157.2	1008.4	866.2	734.0	608.3	492.6	380.2
47.5°	1950.7	1762.2	1580.4	1408.5	1243.1	1081.1	925.7	780.3	644.7	522.4	403.4
45°	2106.1	1887.9	1692.8	1507.6	1325.8	1153.9	985.3	826.6	684.4	552.1	426.5
42.5°	2258.2	2023.4	1805.2	1610.1	1408.5	1223.3	1044.8	876.1	720.8	578.6	446.3
40°	2430.1	2159.0	1911.0	1696.1	1487.8	1289.4	1101.0	922.4	757.1	605.0	466.2
37.5°	2595.4	2291.2	2030.0	1788.7	1563.8	1355.6	1157.2	968.7	793.5	631.5	486.0
35°	2764.0	2436.7	2139.1	1874.6	1639.9	1421.7	1210.1	1011.7	823.2	654.6	505.9
32.5°	2935.9	2575.5	2254.8	1967.2	1715.9	1481.2	1259.7	1051.4	856.3	681.1	522.4
30°	3101.2	2707.8	2363.9	2056.5	1785.4	1540.7	1309.3	1091.1	889.4	704.2	538.9
27.5°	3269.9	2846.7	2473.1	2139.1	1851.5	1593.6	1352.2	1127.4	919.1	727.4	555.4
25°	3431.9	2978.9	2575.5	2218.5	1911.0	1646.5	1398.5	1163.8	945.6	747.2	568.7
22.5°	3580.6	3094.6	2668.1	2294.5	1973.8	1692.8	1438.2	1196.9	972.0	767.0	581.9
20°	3716.2	3213.6	2764.0	2370.6	2033.3	1739.1	1471.3	1226.6	995.2	783.6	595.1
17.5°	3848.4	3322.8	2850.0	2440.0	2082.9	1778.7	1504.3	1249.8	1015.0	796.8	605.0
15°	3960.9	3418.6	2926.0	2499.5	2129.2	1811.8	1530.8	1272.9	1031.5	810.0	611.7
12.5°	4060.0	3501.3	2992.1	2549.1	2165.6	1841.6	1557.2	1292.7	1048.1	819.9	621.6
10°	4139.4	3567.4	3045.0	2592.1	2198.6	1864.7	1573.8	1309.3	1058.0	829.9	628.2
7.5°	4202.2	3620.3	3088.0	2621.8	2221.8	1884.5	1590.3	1319.2	1067.9	836.5	638.1
5°	4248.5	3660.0	3117.8	2645.0	2241.6	1907.7	1610.1	1335.7	1081.1	846.4	638.1
2.5°	4284.9	3689.7	3140.9	2664.8	2254.8	1907.7	1610.1	1335.7	1081.1	846.4	638.1
0°	4284.9	3689.7	3140.9	2664.8	2254.8	1907.7	1610.1	1335.7	1081.1	846.4	638.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.5	13.2	6.6	0.0
85°	36.4	23.1	13.2	0.0
82.5°	52.9	36.4	16.5	0.0
80°	69.4	46.3	23.1	0.0
77.5°	89.3	59.5	29.8	0.0
75°	105.8	69.4	36.4	0.0
72.5°	122.3	82.7	39.7	0.0
70°	138.9	92.6	46.3	0.0
67.5°	158.7	102.5	52.9	0.0
65°	175.2	115.7	56.2	0.0
62.5°	191.8	125.6	62.8	0.0
60°	208.3	135.6	66.1	0.0
57.5°	224.8	145.5	72.7	0.0
55°	241.4	158.7	79.3	0.0
52.5°	257.9	168.6	82.7	0.0
50°	274.4	178.5	86.0	0.0
47.5°	287.6	188.5	92.6	0.0
45°	304.2	198.4	95.9	0.0
42.5°	320.7	205.0	99.2	0.0
40°	333.9	214.9	102.5	0.0
37.5°	350.5	221.5	109.1	0.0
35°	363.7	231.4	112.4	0.0
32.5°	373.6	238.0	115.7	0.0
30°	386.8	244.7	119.0	0.0
27.5°	396.7	251.3	119.0	0.0
25°	406.7	257.9	122.3	0.0
22.5°	416.6	261.2	125.6	0.0
20°	426.5	267.8	128.9	0.0
17.5°	433.1	271.1	128.9	0.0
15°	439.7	274.4	135.6	0.0
12.5°	443.0	277.7	135.6	0.0
10°	449.6	284.3	135.6	0.0
7.5°	456.3	284.3	135.6	0.0
5°	456.3	284.3	135.6	0.0
2.5°	456.3	284.3	135.6	0.0
0°	456.3	284.3	135.6	0.0

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