

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: P623889

Luminaire Tested: **IFLD-L-SA7A-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623889
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

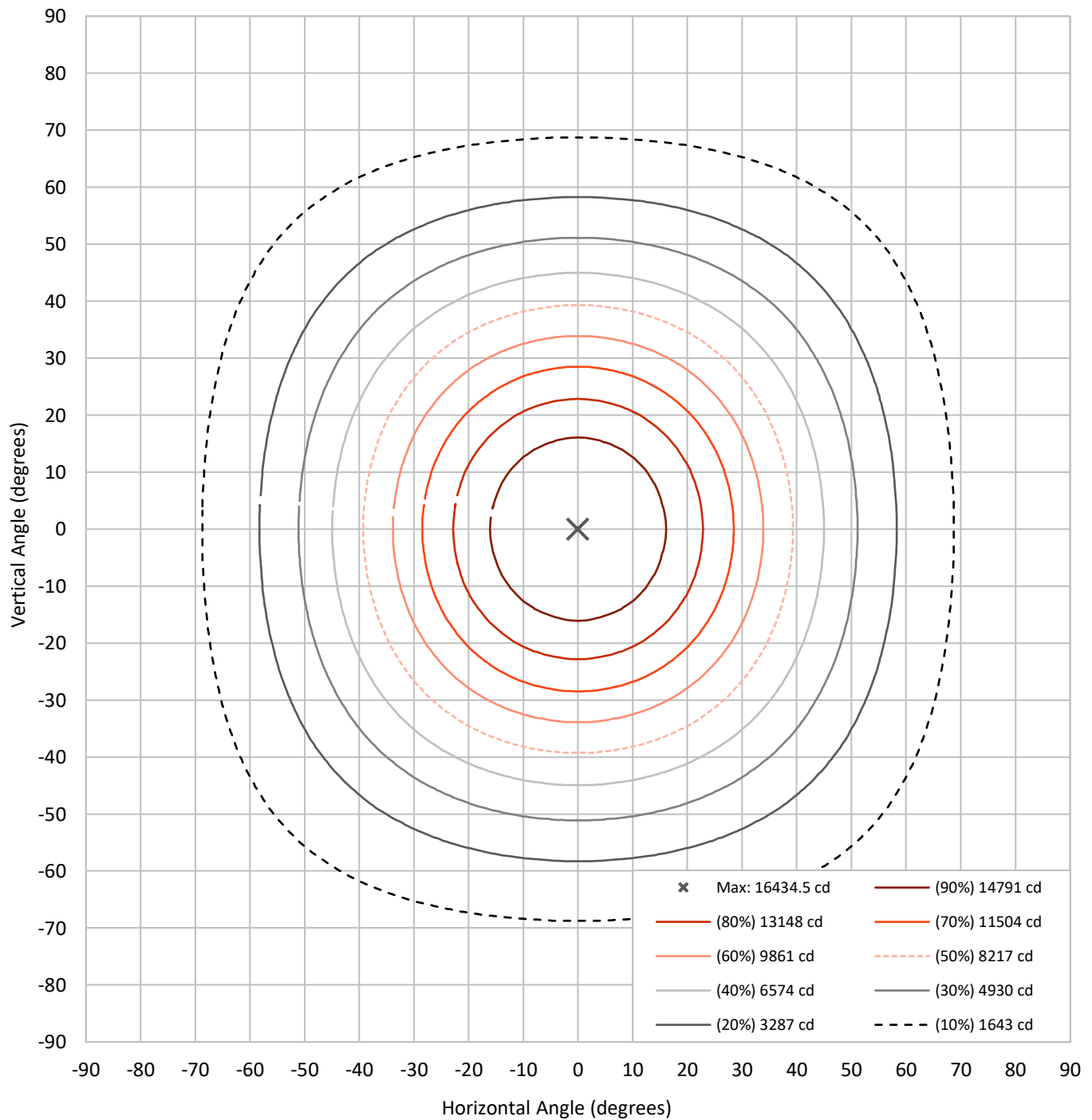
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	29590.8 lumens	Max Intensity:	16434.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	136.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	12803.6 lumens	Field Lumens:	20965.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	217.6		
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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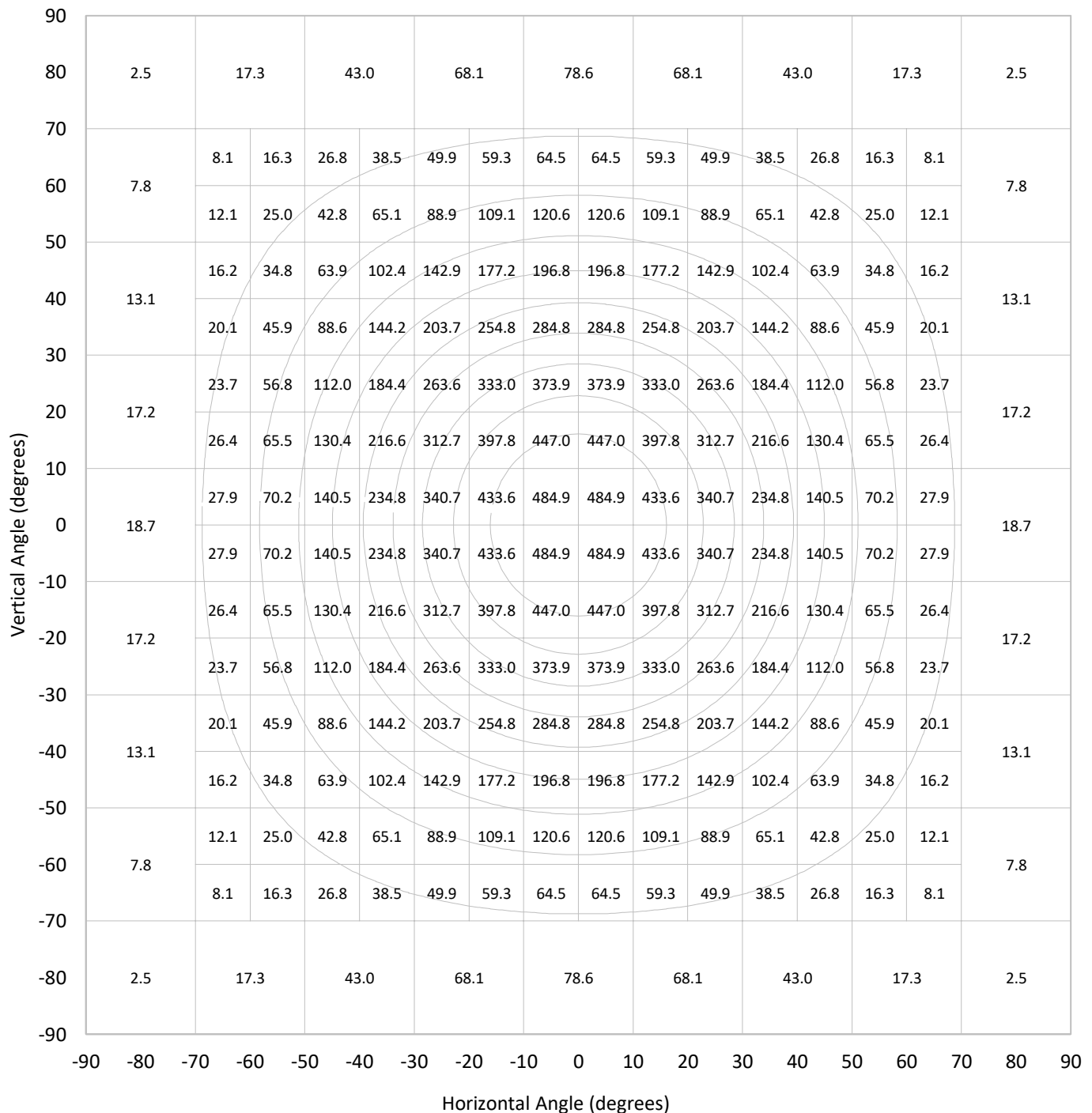
Iso-Candela Plot



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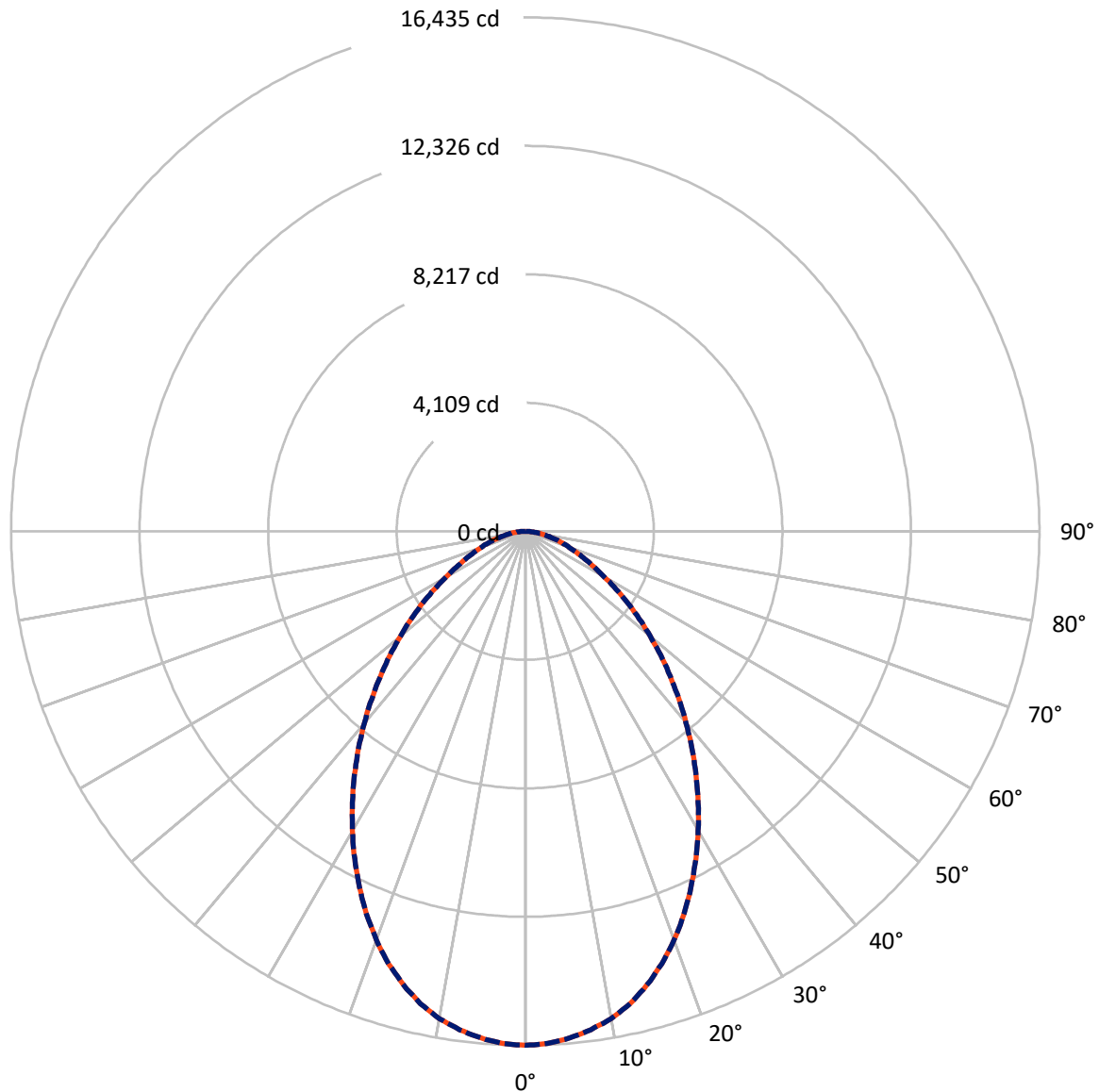
Lumen Table



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Luminous Intensity Polar Plot

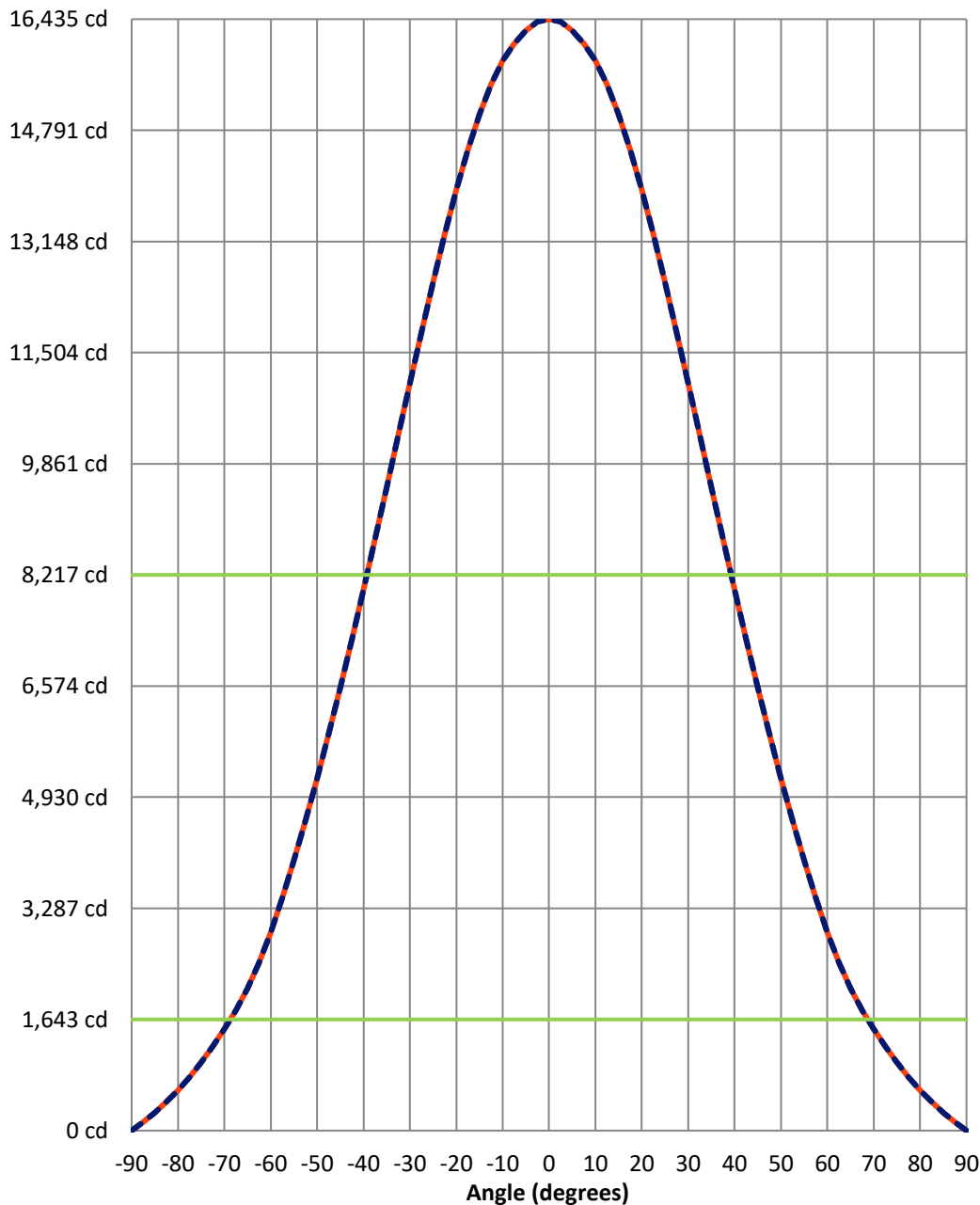


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 12803.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 20965.5
Efficiency: 70.9%

Spill:

Lumens: 8625.3
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°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	120.3	120.3	117.2	114.2
85°	265.3	265.3	265.3	265.3	265.3	259.2	256.1	253.0	249.9	243.7	240.6
82.5°	425.7	425.7	425.7	425.7	419.6	413.4	410.3	404.2	398.0	388.7	379.5
80°	595.4	595.4	595.4	595.4	586.2	580.0	570.8	564.6	555.3	543.0	530.6
77.5°	789.8	789.8	789.8	780.5	774.4	765.1	755.9	743.5	731.2	715.8	697.2
75°	1008.8	1008.8	1008.8	996.5	987.2	978.0	962.6	947.1	928.6	907.0	882.4
72.5°	1246.4	1246.4	1246.4	1231.0	1221.7	1206.3	1187.8	1166.2	1144.6	1116.8	1086.0
70°	1502.5	1502.5	1502.5	1484.0	1468.5	1453.1	1428.4	1403.7	1372.9	1342.0	1305.0
67.5°	1780.1	1780.1	1780.1	1758.5	1740.0	1718.4	1690.7	1659.8	1622.8	1579.6	1536.4
65°	2104.1	2104.1	2091.7	2073.2	2051.6	2020.8	1986.8	1943.6	1897.4	1841.8	1783.2
62.5°	2486.6	2486.6	2468.1	2446.5	2418.7	2378.6	2332.4	2276.8	2212.0	2141.1	2070.1
60°	2930.9	2930.9	2909.3	2881.5	2841.4	2792.1	2730.3	2659.4	2579.2	2489.7	2403.3
57.5°	3443.0	3443.0	3415.3	3378.2	3328.9	3267.2	3190.0	3100.6	2998.8	2887.7	2779.7
55°	3998.3	3998.3	3964.4	3921.2	3862.6	3788.6	3696.0	3591.1	3467.7	3341.2	3202.4
52.5°	4587.6	4587.6	4547.5	4498.1	4430.3	4343.9	4239.0	4115.6	3973.7	3825.6	3662.1
50°	5207.7	5207.7	5161.4	5105.9	5028.8	4927.0	4806.6	4664.7	4507.4	4334.6	4146.4
47.5°	5871.0	5871.0	5818.6	5753.8	5661.2	5544.0	5402.1	5238.6	5059.6	4865.3	4652.4
45°	6552.8	6552.8	6494.2	6420.2	6318.4	6185.7	6028.4	5871.0	5642.7	5417.5	5170.7
42.5°	7262.4	7262.4	7194.5	7111.2	6994.0	6849.0	6670.1	6466.5	6241.2	5988.3	5719.8
40°	7999.8	7999.8	7922.6	7827.0	7697.4	7530.8	7330.3	7102.0	6849.0	6568.3	6272.1
37.5°	8752.5	8752.5	8666.2	8561.3	8416.3	8231.2	8005.9	7753.0	7469.1	7157.5	6830.5
35°	9511.5	9511.5	9415.8	9301.7	9141.3	8937.7	8693.9	8413.2	8098.5	7759.1	7392.0
32.5°	10285.9	10285.9	10181.0	10051.4	9869.4	9644.1	9375.7	9070.3	8752.5	8357.6	7956.6
30°	11051.0	11051.0	10936.8	10794.9	10600.5	10353.7	10060.6	9724.4	9351.1	8946.9	8515.0
27.5°	11803.7	11772.9	11677.3	11526.1	11313.2	11051.0	10733.2	10369.2	9965.0	9520.7	9058.0
25°	12544.2	12510.2	12405.3	12238.8	12010.5	11723.5	11381.1	10992.4	10557.3	10088.4	9582.4
22.5°	13253.8	13216.7	13105.7	12926.7	12683.0	12371.4	12004.3	11587.8	11125.0	10622.1	10088.4
20°	13910.9	13870.8	13756.6	13568.4	13315.5	12985.4	12596.6	12149.3	11655.7	11125.0	10557.3
17.5°	14503.2	14463.1	14342.8	14148.5	13910.9	13543.8	13142.7	12670.7	12149.3	11587.8	10992.4
15°	15024.6	14981.4	14858.0	14663.7	14392.2	14046.6	13624.0	13142.7	12596.6	12004.3	11381.1
12.5°	15468.9	15425.7	15299.2	15104.8	14824.1	14478.6	14046.6	13543.8	12985.4	12371.4	11723.5
10°	15820.6	15777.4	15657.1	15472.0	15182.0	14824.1	14392.2	13910.9	13315.5	12683.0	12010.5
7.5°	16073.6	16033.5	15922.4	15737.3	15472.0	15104.8	14663.7	14148.5	13568.4	12926.7	12238.8
5°	16264.9	16218.6	16107.5	15922.4	15657.1	15299.2	14858.0	14342.8	13756.6	13105.7	12405.3
2.5°	16397.5	16342.0	16218.6	16033.5	15777.4	15425.7	14981.4	14463.1	13870.8	13216.7	12510.2
0°	16434.5	16397.5	16264.9	16073.6	15820.6	15468.9	15024.6	14503.2	13910.9	13253.8	12544.2

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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°	111.1	111.1	108.0	104.9	101.8	95.6	92.6	89.5	86.4	80.2	77.1
85°	234.5	228.3	222.1	216.0	206.7	200.5	191.3	185.1	175.9	166.6	157.3
82.5°	370.2	361.0	348.6	339.4	327.0	311.6	299.3	283.8	268.4	256.1	240.6
80°	518.3	502.9	487.5	472.0	453.5	435.0	416.5	398.0	376.4	354.8	333.2
77.5°	678.7	657.1	635.5	610.9	589.3	564.6	539.9	515.2	487.5	459.7	431.9
75°	857.7	829.9	799.1	768.2	740.4	706.5	672.6	638.6	601.6	567.7	530.6
72.5°	1052.0	1018.1	981.1	944.1	903.9	860.8	817.6	771.3	728.1	684.9	638.6
70°	1261.8	1221.7	1175.4	1129.2	1079.8	1027.4	974.9	919.4	863.8	808.3	752.8
67.5°	1487.0	1437.7	1382.1	1326.6	1264.9	1203.2	1141.5	1076.7	1008.8	941.0	876.2
65°	1727.7	1666.0	1601.2	1530.2	1459.3	1388.3	1314.3	1237.1	1160.0	1079.8	1008.8
62.5°	1996.1	1919.0	1835.7	1749.3	1669.1	1582.7	1502.5	1406.8	1314.3	1224.8	1135.3
60°	2307.7	2205.9	2104.1	1996.1	1894.3	1783.2	1684.5	1579.6	1474.7	1372.9	1268.0
57.5°	2656.3	2526.7	2403.3	2273.7	2138.0	2014.6	1888.1	1761.6	1644.4	1524.1	1409.9
55°	3051.2	2893.9	2739.6	2579.2	2421.8	2267.6	2107.2	1965.2	1820.2	1684.5	1551.8
52.5°	3483.1	3304.2	3112.9	2930.9	2730.3	2539.1	2360.1	2181.2	2011.5	1848.0	1696.8
50°	3945.9	3736.1	3517.1	3294.9	3066.6	2841.4	2625.5	2415.7	2218.2	2026.9	1848.0
47.5°	4427.2	4189.6	3939.7	3686.7	3443.0	3168.4	2909.3	2671.7	2434.2	2218.2	2011.5
45°	4920.8	4652.4	4377.8	4090.9	3804.0	3507.8	3220.9	2930.9	2671.7	2415.7	2181.2
42.5°	5429.8	5127.5	4822.1	4504.3	4186.5	3862.6	3538.7	3220.9	2909.3	2625.5	2360.1
40°	5954.3	5621.1	5272.5	4927.0	4587.6	4217.4	3862.6	3507.8	3168.4	2841.4	2539.1
37.5°	6478.8	6114.7	5738.4	5349.6	4960.9	4587.6	4186.5	3804.0	3443.0	3066.6	2730.3
35°	7006.4	6605.3	6198.0	5775.4	5349.6	4927.0	4504.3	4090.9	3686.7	3294.9	2930.9
32.5°	7537.0	7098.9	6648.5	6198.0	5738.4	5272.5	4822.1	4377.8	3939.7	3517.1	3112.9
30°	8058.4	7583.3	7098.9	6605.3	6114.7	5621.1	5127.5	4652.4	4189.6	3736.1	3304.2
27.5°	8567.4	8058.4	7537.0	7006.4	6478.8	5954.3	5429.8	4920.8	4427.2	3945.9	3483.1
25°	9058.0	8515.0	7956.6	7392.0	6830.5	6272.1	5719.8	5170.7	4652.4	4146.4	3662.1
22.5°	9520.7	8946.9	8357.6	7759.1	7157.5	6568.3	5988.3	5417.5	4865.3	4334.6	3825.6
20°	9965.0	9351.1	8752.5	8098.5	7469.1	6849.0	6241.2	5642.7	5059.6	4507.4	3973.7
17.5°	10369.2	9724.4	9070.3	8413.2	7753.0	7102.0	6466.5	5871.0	5238.6	4664.7	4115.6
15°	10733.2	10060.6	9375.7	8693.9	8005.9	7330.3	6670.1	6028.4	5402.1	4806.6	4239.0
12.5°	11051.0	10353.7	9644.1	8937.7	8231.2	7530.8	6849.0	6185.7	5544.0	4927.0	4343.9
10°	11313.2	10600.5	9869.4	9141.3	8416.3	7697.4	6994.0	6318.4	5661.2	5028.8	4430.3
7.5°	11526.1	10794.9	10051.4	9301.7	8561.3	7827.0	7111.2	6420.2	5753.8	5105.9	4498.1
5°	11677.3	10936.8	10181.0	9415.8	8666.2	7922.6	7194.5	6494.2	5818.6	5161.4	4547.5
2.5°	11772.9	11051.0	10285.9	9511.5	8752.5	7999.8	7262.4	6552.8	5871.0	5207.7	4587.6
0°	11803.7	11051.0	10285.9	9511.5	8752.5	7999.8	7262.4	6552.8	5871.0	5207.7	4587.6

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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°	74.0	67.9	61.7	58.6	52.4	49.4	43.2	37.0	33.9	27.8	21.6
85°	148.1	135.7	126.5	117.2	108.0	95.6	86.4	77.1	64.8	55.5	43.2
82.5°	225.2	209.8	194.4	178.9	163.5	148.1	129.6	114.2	98.7	83.3	64.8
80°	311.6	286.9	265.3	243.7	222.1	200.5	175.9	154.3	129.6	108.0	86.4
77.5°	401.1	373.3	342.5	311.6	280.7	253.0	222.1	194.4	166.6	135.7	108.0
75°	496.7	459.7	425.7	385.6	348.6	308.5	271.5	234.5	200.5	166.6	129.6
72.5°	595.4	549.2	502.9	459.7	413.4	367.1	323.9	277.7	234.5	194.4	154.3
70°	697.2	641.7	586.2	533.7	481.3	425.7	376.4	323.9	271.5	222.1	175.9
67.5°	805.2	740.4	675.6	607.8	549.2	487.5	425.7	367.1	308.5	253.0	200.5
65°	922.5	845.3	765.1	694.2	617.0	549.2	481.3	413.4	348.6	280.7	222.1
62.5°	1042.8	953.3	863.8	774.4	694.2	607.8	533.7	459.7	385.6	311.6	243.7
60°	1166.2	1064.4	962.6	863.8	765.1	675.6	586.2	502.9	425.7	342.5	265.3
57.5°	1292.7	1178.5	1064.4	953.3	845.3	740.4	641.7	549.2	459.7	373.3	286.9
55°	1422.2	1292.7	1166.2	1042.8	922.5	805.2	697.2	595.4	496.7	401.1	311.6
52.5°	1551.8	1409.9	1268.0	1135.3	1008.8	876.2	752.8	638.6	530.6	431.9	333.2
50°	1684.5	1524.1	1372.9	1224.8	1079.8	941.0	808.3	684.9	567.7	459.7	354.8
47.5°	1820.2	1644.4	1474.7	1314.3	1160.0	1008.8	863.8	728.1	601.6	487.5	376.4
45°	1965.2	1761.6	1579.6	1406.8	1237.1	1076.7	919.4	771.3	638.6	515.2	398.0
42.5°	2107.2	1888.1	1684.5	1502.5	1314.3	1141.5	974.9	817.6	672.6	539.9	416.5
40°	2267.6	2014.6	1783.2	1582.7	1388.3	1203.2	1027.4	860.8	706.5	564.6	435.0
37.5°	2421.8	2138.0	1894.3	1669.1	1459.3	1264.9	1079.8	903.9	740.4	589.3	453.5
35°	2579.2	2273.7	1996.1	1749.3	1530.2	1326.6	1129.2	944.1	768.2	610.9	472.0
32.5°	2739.6	2403.3	2104.1	1835.7	1601.2	1382.1	1175.4	981.1	799.1	635.5	487.5
30°	2893.9	2526.7	2205.9	1919.0	1666.0	1437.7	1221.7	1018.1	829.9	657.1	502.9
27.5°	3051.2	2656.3	2307.7	1996.1	1727.7	1487.0	1261.8	1052.0	857.7	678.7	518.3
25°	3202.4	2779.7	2403.3	2070.1	1783.2	1536.4	1305.0	1086.0	882.4	697.2	530.6
22.5°	3341.2	2887.7	2489.7	2141.1	1841.8	1579.6	1342.0	1116.8	907.0	715.8	543.0
20°	3467.7	2998.8	2579.2	2212.0	1897.4	1622.8	1372.9	1144.6	928.6	731.2	555.3
17.5°	3591.1	3100.6	2659.4	2276.8	1943.6	1659.8	1403.7	1166.2	947.1	743.5	564.6
15°	3696.0	3190.0	2730.3	2332.4	1986.8	1690.7	1428.4	1187.8	962.6	755.9	570.8
12.5°	3788.6	3267.2	2792.1	2378.6	2020.8	1718.4	1453.1	1206.3	978.0	765.1	580.0
10°	3862.6	3328.9	2841.4	2418.7	2051.6	1740.0	1468.5	1221.7	987.2	774.4	586.2
7.5°	3921.2	3378.2	2881.5	2446.5	2073.2	1758.5	1484.0	1231.0	996.5	780.5	595.4
5°	3964.4	3415.3	2909.3	2468.1	2091.7	1780.1	1502.5	1246.4	1008.8	789.8	595.4
2.5°	3998.3	3443.0	2930.9	2486.6	2104.1	1780.1	1502.5	1246.4	1008.8	789.8	595.4
0°	3998.3	3443.0	2930.9	2486.6	2104.1	1780.1	1502.5	1246.4	1008.8	789.8	595.4

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.4	12.3	6.2	0.0
85°	33.9	21.6	12.3	0.0
82.5°	49.4	33.9	15.4	0.0
80°	64.8	43.2	21.6	0.0
77.5°	83.3	55.5	27.8	0.0
75°	98.7	64.8	33.9	0.0
72.5°	114.2	77.1	37.0	0.0
70°	129.6	86.4	43.2	0.0
67.5°	148.1	95.6	49.4	0.0
65°	163.5	108.0	52.4	0.0
62.5°	178.9	117.2	58.6	0.0
60°	194.4	126.5	61.7	0.0
57.5°	209.8	135.7	67.9	0.0
55°	225.2	148.1	74.0	0.0
52.5°	240.6	157.3	77.1	0.0
50°	256.1	166.6	80.2	0.0
47.5°	268.4	175.9	86.4	0.0
45°	283.8	185.1	89.5	0.0
42.5°	299.3	191.3	92.6	0.0
40°	311.6	200.5	95.6	0.0
37.5°	327.0	206.7	101.8	0.0
35°	339.4	216.0	104.9	0.0
32.5°	348.6	222.1	108.0	0.0
30°	361.0	228.3	111.1	0.0
27.5°	370.2	234.5	111.1	0.0
25°	379.5	240.6	114.2	0.0
22.5°	388.7	243.7	117.2	0.0
20°	398.0	249.9	120.3	0.0
17.5°	404.2	253.0	120.3	0.0
15°	410.3	256.1	126.5	0.0
12.5°	413.4	259.2	126.5	0.0
10°	419.6	265.3	126.5	0.0
7.5°	425.7	265.3	126.5	0.0
5°	425.7	265.3	126.5	0.0
2.5°	425.7	265.3	126.5	0.0
0°	425.7	265.3	126.5	0.0

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