

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: P623862

Luminaire Tested: **IFLD-L-SA7C-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623862
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

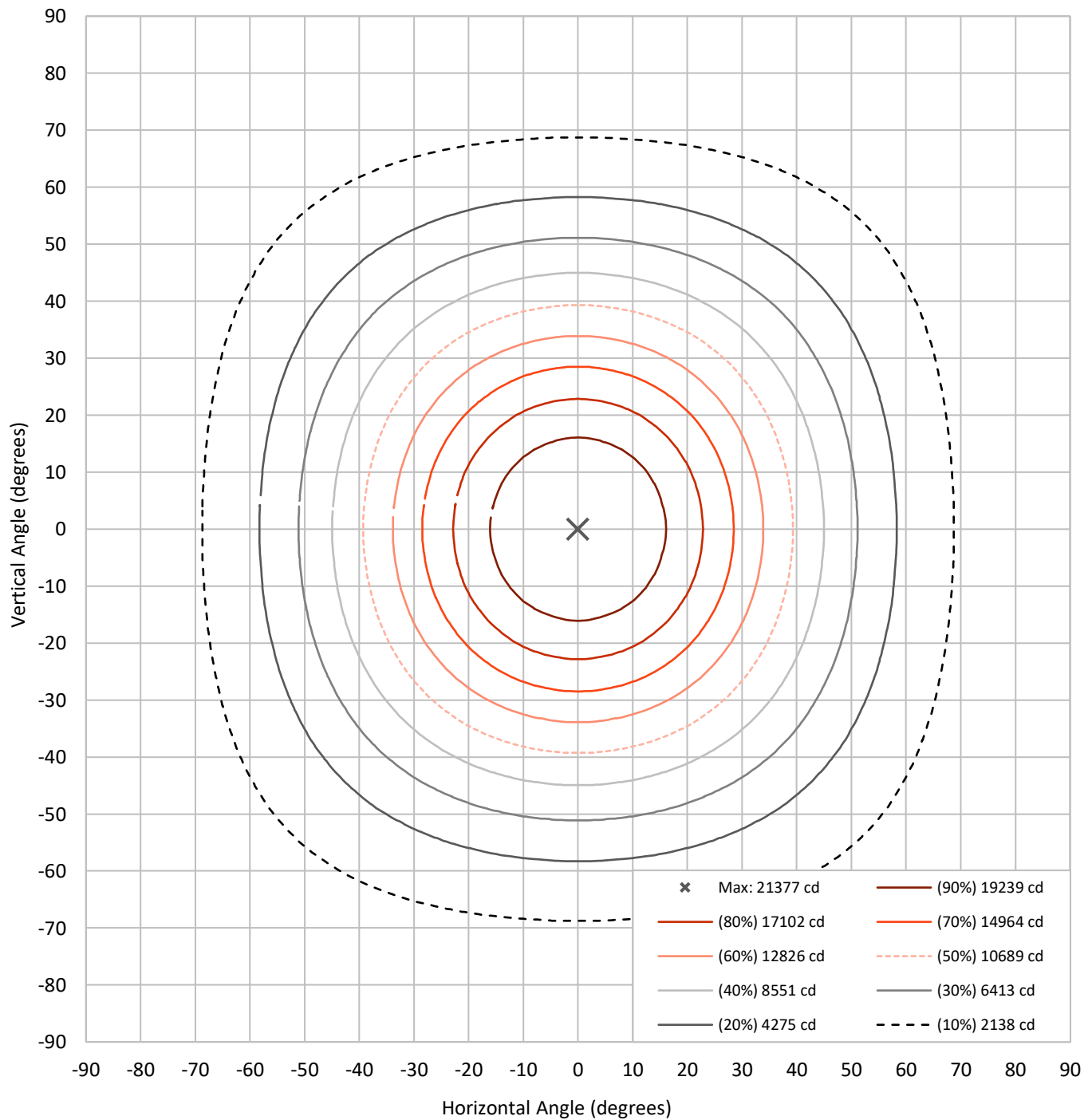
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	38489.7 lumens	Max Intensity:	21377 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	104.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16654.1 lumens	Field Lumens:	27270.6 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	369		
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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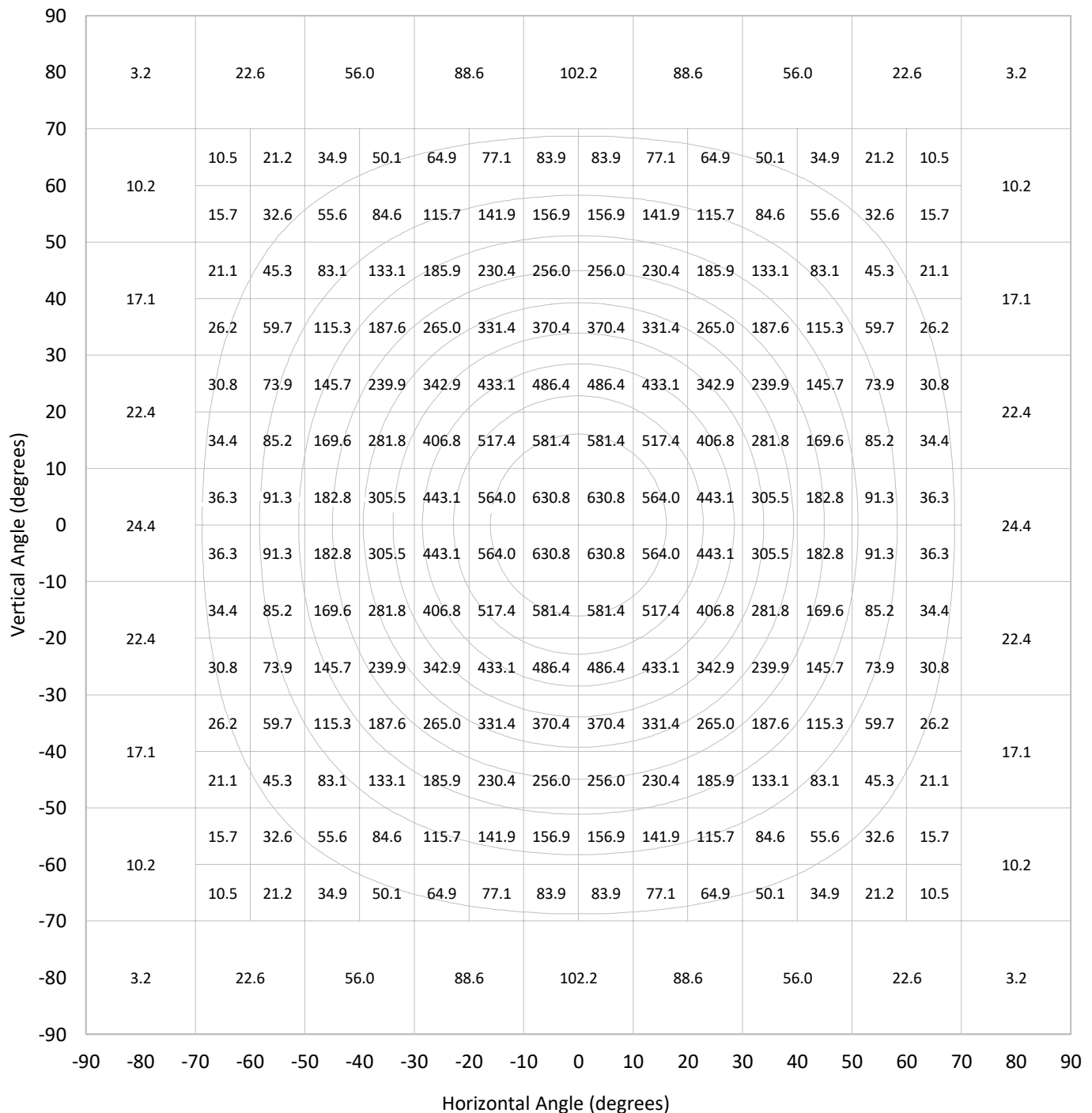
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Iso-Candela Plot



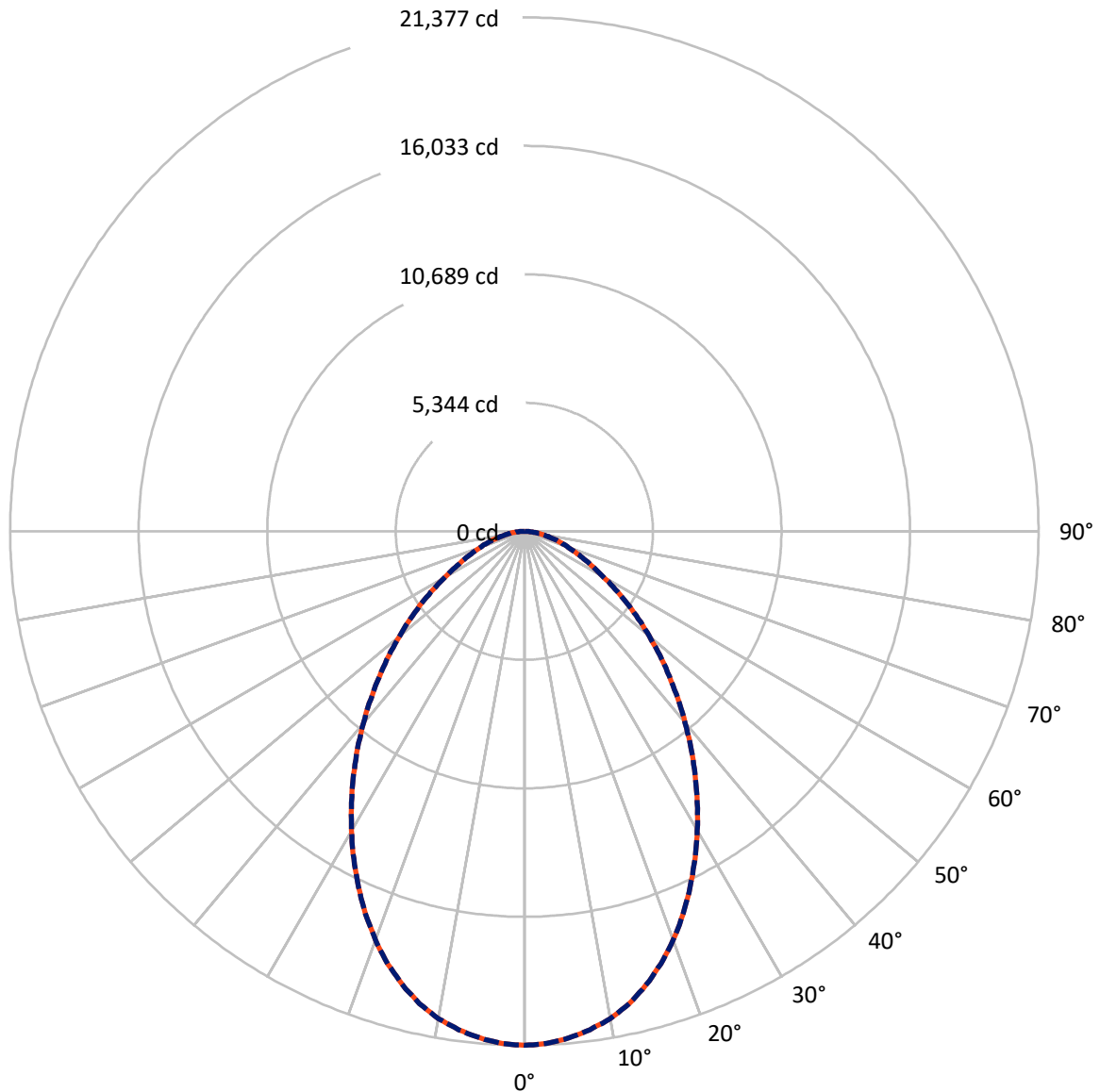
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Lumen Table



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Luminous Intensity Polar Plot

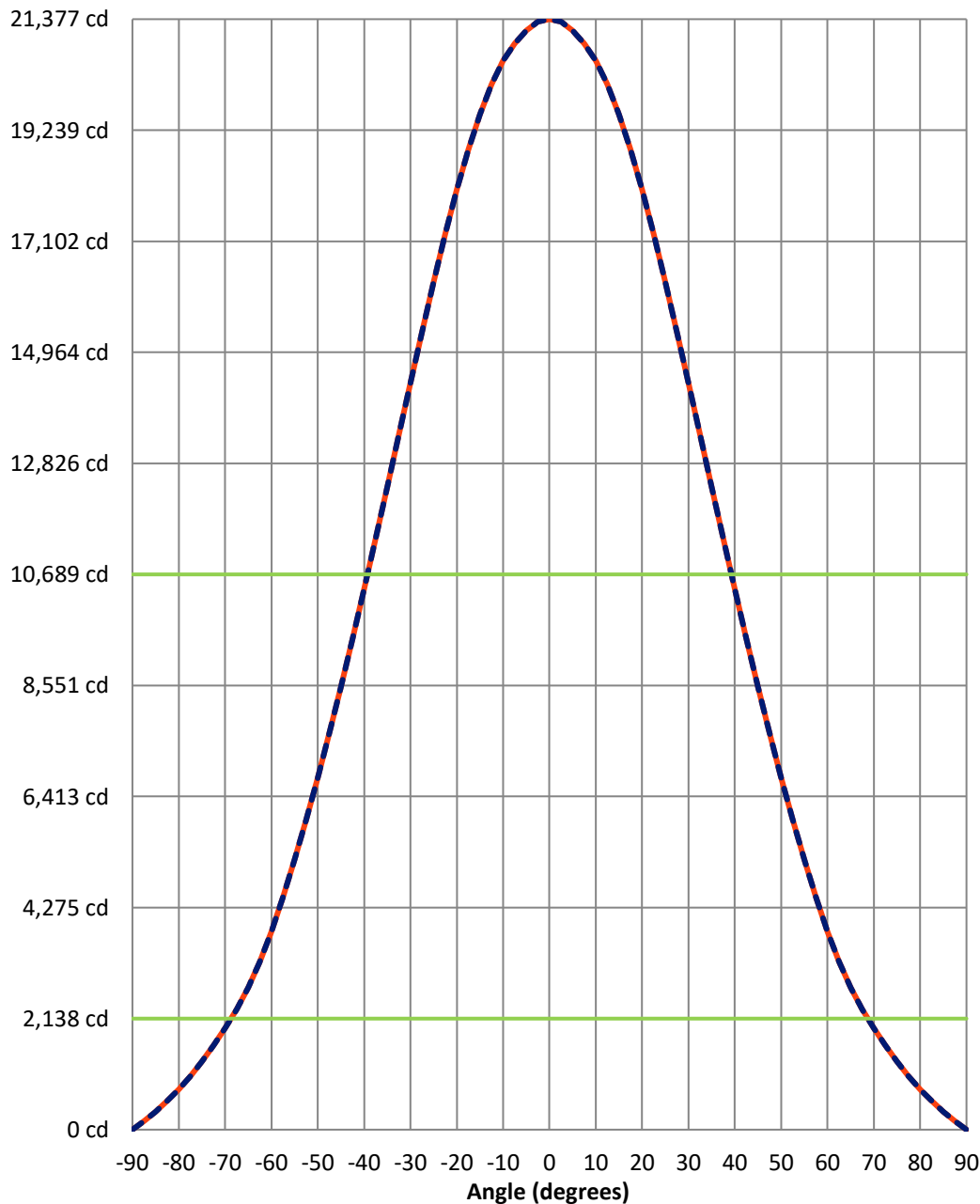


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16654.1
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 27270.6
Efficiency: 70.9%

Spill:

Lumens: 11219.2
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°	164.5	164.5	164.5	164.5	164.5	164.5	164.5	156.5	156.5	152.5	148.5
85°	345.1	345.1	345.1	345.1	345.1	337.1	333.1	329.1	325.0	317.0	313.0
82.5°	553.8	553.8	553.8	553.8	545.8	537.7	533.7	525.7	517.7	505.6	493.6
80°	774.5	774.5	774.5	774.5	762.5	754.4	742.4	734.4	722.3	706.3	690.2
77.5°	1027.3	1027.3	1027.3	1015.3	1007.3	995.2	983.2	967.1	951.1	931.0	906.9
75°	1312.2	1312.2	1312.2	1296.2	1284.1	1272.1	1252.0	1232.0	1207.9	1179.8	1147.7
72.5°	1621.2	1621.2	1621.2	1601.2	1589.1	1569.1	1545.0	1516.9	1488.8	1452.7	1412.6
70°	1954.3	1954.3	1954.3	1930.2	1910.2	1890.1	1858.0	1825.9	1785.8	1745.6	1697.5
67.5°	2315.5	2315.5	2315.5	2287.4	2263.3	2235.2	2199.1	2159.0	2110.8	2054.6	1998.4
65°	2736.8	2736.8	2720.8	2696.7	2668.6	2628.5	2584.3	2528.2	2468.0	2395.7	2319.5
62.5°	3234.4	3234.4	3210.4	3182.3	3146.2	3094.0	3033.8	2961.6	2877.3	2785.0	2692.7
60°	3812.3	3812.3	3784.2	3748.1	3695.9	3631.7	3551.5	3459.2	3354.8	3238.5	3126.1
57.5°	4478.5	4478.5	4442.3	4394.2	4330.0	4249.7	4149.4	4033.0	3900.6	3756.1	3615.7
55°	5200.8	5200.8	5156.6	5100.5	5024.2	4927.9	4807.5	4671.1	4510.6	4346.0	4165.4
52.5°	5967.3	5967.3	5915.1	5850.9	5762.6	5650.2	5513.8	5353.3	5168.7	4976.1	4763.4
50°	6773.9	6773.9	6713.7	6641.4	6541.1	6408.7	6252.2	6067.6	5862.9	5638.2	5393.4
47.5°	7636.6	7636.6	7568.4	7484.2	7363.8	7211.3	7026.7	6814.0	6581.2	6328.4	6051.5
45°	8523.5	8523.5	8447.3	8351.0	8218.5	8046.0	7841.3	7636.6	7339.7	7046.7	6725.7
42.5°	9446.5	9446.5	9358.2	9249.9	9097.4	8908.8	8676.0	8411.1	8118.2	7789.1	7440.0
40°	10405.6	10405.6	10305.3	10180.9	10012.3	9795.6	9534.8	9237.8	8908.8	8543.6	8158.3
37.5°	11384.7	11384.7	11272.4	11135.9	10947.3	10706.6	10413.6	10084.5	9715.4	9310.0	8884.7
35°	12371.9	12371.9	12247.5	12099.0	11890.4	11625.5	11308.5	10943.3	10534.0	10092.6	9615.0
32.5°	13379.2	13379.2	13242.7	13074.2	12837.4	12544.5	12195.4	11798.1	11384.7	10871.1	10349.4
30°	14374.4	14374.4	14225.9	14041.3	13788.5	13467.5	13086.2	12648.8	12163.3	11637.6	11075.7
27.5°	15353.6	15313.4	15189.0	14992.4	14715.5	14374.4	13961.1	13487.5	12961.8	12384.0	11782.0
25°	16316.7	16272.5	16136.1	15919.4	15622.4	15249.2	14803.8	14298.1	13732.3	13122.4	12464.2
22.5°	17239.6	17191.5	17047.0	16814.3	16497.2	16091.9	15614.4	15072.6	14470.7	13816.6	13122.4
20°	18094.4	18042.2	17893.7	17649.0	17319.9	16890.5	16384.9	15803.0	15160.9	14470.7	13732.3
17.5°	18864.9	18812.7	18656.2	18403.4	18094.4	17616.9	17095.2	16481.2	15803.0	15072.6	14298.1
15°	19543.1	19486.9	19326.4	19073.6	18720.4	18271.0	17721.2	17095.2	16384.9	15614.4	14803.8
12.5°	20120.9	20064.8	19900.2	19647.4	19282.2	18832.8	18271.0	17616.9	16890.5	16091.9	15249.2
10°	20578.4	20522.2	20365.7	20125.0	19747.7	19282.2	18720.4	18094.4	17319.9	16497.2	15622.4
7.5°	20907.5	20855.3	20710.8	20470.1	20125.0	19647.4	19073.6	18403.4	17649.0	16814.3	15919.4
5°	21156.3	21096.1	20951.6	20710.8	20365.7	19900.2	19326.4	18656.2	17893.7	17047.0	16136.1
2.5°	21328.8	21256.6	21096.1	20855.3	20522.2	20064.8	19486.9	18812.7	18042.2	17191.5	16272.5
0°	21377.0	21328.8	21156.3	20907.5	20578.4	20120.9	19543.1	18864.9	18094.4	17239.6	16316.7

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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°	144.5	144.5	140.5	136.4	132.4	124.4	120.4	116.4	112.4	104.3	100.3
85°	305.0	297.0	288.9	280.9	268.9	260.8	248.8	240.8	228.7	216.7	204.7
82.5°	481.6	469.5	453.5	441.4	425.4	405.3	389.3	369.2	349.1	333.1	313.0
80°	674.2	654.1	634.0	614.0	589.9	565.8	541.7	517.7	489.6	461.5	433.4
77.5°	882.8	854.8	826.7	794.6	766.5	734.4	702.3	670.2	634.0	597.9	561.8
75°	1115.6	1079.5	1039.4	999.2	963.1	919.0	874.8	830.7	782.5	738.4	690.2
72.5°	1368.4	1324.3	1276.1	1228.0	1175.8	1119.6	1063.4	1003.2	947.1	890.9	830.7
70°	1641.3	1589.1	1528.9	1468.7	1404.5	1336.3	1268.1	1195.9	1123.6	1051.4	979.2
67.5°	1934.2	1870.0	1797.8	1725.6	1645.3	1565.1	1484.8	1400.5	1312.2	1224.0	1139.7
65°	2247.3	2167.0	2082.7	1990.4	1898.1	1805.8	1709.5	1609.2	1508.9	1404.5	1312.2
62.5°	2596.4	2496.1	2387.7	2275.3	2171.0	2058.6	1954.3	1829.9	1709.5	1593.1	1476.8
60°	3001.7	2869.3	2736.8	2596.4	2464.0	2319.5	2191.1	2054.6	1918.2	1785.8	1649.3
57.5°	3455.2	3286.6	3126.1	2957.5	2781.0	2620.5	2455.9	2291.4	2138.9	1982.4	1833.9
55°	3968.8	3764.1	3563.5	3354.8	3150.2	2949.5	2740.8	2556.2	2367.6	2191.1	2018.5
52.5°	4530.6	4297.9	4049.1	3812.3	3551.5	3302.7	3069.9	2837.2	2616.4	2403.8	2207.1
50°	5132.6	4859.7	4574.8	4285.8	3988.9	3695.9	3415.0	3142.1	2885.3	2636.5	2403.8
47.5°	5758.6	5449.6	5124.5	4795.5	4478.5	4121.3	3784.2	3475.2	3166.2	2885.3	2616.4
45°	6400.7	6051.5	5694.4	5321.2	4948.0	4562.7	4189.5	3812.3	3475.2	3142.1	2837.2
42.5°	7062.8	6669.5	6272.2	5858.9	5445.6	5024.2	4602.9	4189.5	3784.2	3415.0	3069.9
40°	7745.0	7311.6	6858.1	6408.7	5967.3	5485.7	5024.2	4562.7	4121.3	3695.9	3302.7
37.5°	8427.2	7953.7	7464.1	6958.5	6452.8	5967.3	5445.6	4948.0	4478.5	3988.9	3551.5
35°	9113.4	8591.7	8062.0	7512.2	6958.5	6408.7	5858.9	5321.2	4795.5	4285.8	3812.3
32.5°	9803.6	9233.8	8647.9	8062.0	7464.1	6858.1	6272.2	5694.4	5124.5	4574.8	4049.1
30°	10481.8	9863.8	9233.8	8591.7	7953.7	7311.6	6669.5	6051.5	5449.6	4859.7	4297.9
27.5°	11144.0	10481.8	9803.6	9113.4	8427.2	7745.0	7062.8	6400.7	5758.6	5132.6	4530.6
25°	11782.0	11075.7	10349.4	9615.0	8884.7	8158.3	7440.0	6725.7	6051.5	5393.4	4763.4
22.5°	12384.0	11637.6	10871.1	10092.6	9310.0	8543.6	7789.1	7046.7	6328.4	5638.2	4976.1
20°	12961.8	12163.3	11384.7	10534.0	9715.4	8908.8	8118.2	7339.7	6581.2	5862.9	5168.7
17.5°	13487.5	12648.8	11798.1	10943.3	10084.5	9237.8	8411.1	7636.6	6814.0	6067.6	5353.3
15°	13961.1	13086.2	12195.4	11308.5	10413.6	9534.8	8676.0	7841.3	7026.7	6252.2	5513.8
12.5°	14374.4	13467.5	12544.5	11625.5	10706.6	9795.6	8908.8	8046.0	7211.3	6408.7	5650.2
10°	14715.5	13788.5	12837.4	11890.4	10947.3	10012.3	9097.4	8218.5	7363.8	6541.1	5762.6
7.5°	14992.4	14041.3	13074.2	12099.0	11135.9	10180.9	9249.9	8351.0	7484.2	6641.4	5850.9
5°	15189.0	14225.9	13242.7	12247.5	11272.4	10305.3	9358.2	8447.3	7568.4	6713.7	5915.1
2.5°	15313.4	14374.4	13379.2	12371.9	11384.7	10405.6	9446.5	8523.5	7636.6	6773.9	5967.3
0°	15353.6	14374.4	13379.2	12371.9	11384.7	10405.6	9446.5	8523.5	7636.6	6773.9	5967.3

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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°	96.3	88.3	80.3	76.2	68.2	64.2	56.2	48.2	44.1	36.1	28.1
85°	192.6	176.6	164.5	152.5	140.5	124.4	112.4	100.3	84.3	72.2	56.2
82.5°	292.9	272.9	252.8	232.8	212.7	192.6	168.5	148.5	128.4	108.3	84.3
80°	405.3	373.2	345.1	317.0	288.9	260.8	228.7	200.6	168.5	140.5	112.4
77.5°	521.7	485.6	445.4	405.3	365.2	329.1	288.9	252.8	216.7	176.6	140.5
75°	646.1	597.9	553.8	501.6	453.5	401.3	353.1	305.0	260.8	216.7	168.5
72.5°	774.5	714.3	654.1	597.9	537.7	477.5	421.4	361.2	305.0	252.8	200.6
70°	906.9	834.7	762.5	694.2	626.0	553.8	489.6	421.4	353.1	288.9	228.7
67.5°	1047.4	963.1	878.8	790.6	714.3	634.0	553.8	477.5	401.3	329.1	260.8
65°	1199.9	1099.5	995.2	902.9	802.6	714.3	626.0	537.7	453.5	365.2	288.9
62.5°	1356.4	1240.0	1123.6	1007.3	902.9	790.6	694.2	597.9	501.6	405.3	317.0
60°	1516.9	1384.5	1252.0	1123.6	995.2	878.8	762.5	654.1	553.8	445.4	345.1
57.5°	1681.4	1532.9	1384.5	1240.0	1099.5	963.1	834.7	714.3	597.9	485.6	373.2
55°	1850.0	1681.4	1516.9	1356.4	1199.9	1047.4	906.9	774.5	646.1	521.7	405.3
52.5°	2018.5	1833.9	1649.3	1476.8	1312.2	1139.7	979.2	830.7	690.2	561.8	433.4
50°	2191.1	1982.4	1785.8	1593.1	1404.5	1224.0	1051.4	890.9	738.4	597.9	461.5
47.5°	2367.6	2138.9	1918.2	1709.5	1508.9	1312.2	1123.6	947.1	782.5	634.0	489.6
45°	2556.2	2291.4	2054.6	1829.9	1609.2	1400.5	1195.9	1003.2	830.7	670.2	517.7
42.5°	2740.8	2455.9	2191.1	1954.3	1709.5	1484.8	1268.1	1063.4	874.8	702.3	541.7
40°	2949.5	2620.5	2319.5	2058.6	1805.8	1565.1	1336.3	1119.6	919.0	734.4	565.8
37.5°	3150.2	2781.0	2464.0	2171.0	1898.1	1645.3	1404.5	1175.8	963.1	766.5	589.9
35°	3354.8	2957.5	2596.4	2275.3	1990.4	1725.6	1468.7	1228.0	999.2	794.6	614.0
32.5°	3563.5	3126.1	2736.8	2387.7	2082.7	1797.8	1528.9	1276.1	1039.4	826.7	634.0
30°	3764.1	3286.6	2869.3	2496.1	2167.0	1870.0	1589.1	1324.3	1079.5	854.8	654.1
27.5°	3968.8	3455.2	3001.7	2596.4	2247.3	1934.2	1641.3	1368.4	1115.6	882.8	674.2
25°	4165.4	3615.7	3126.1	2692.7	2319.5	1998.4	1697.5	1412.6	1147.7	906.9	690.2
22.5°	4346.0	3756.1	3238.5	2785.0	2395.7	2054.6	1745.6	1452.7	1179.8	931.0	706.3
20°	4510.6	3900.6	3354.8	2877.3	2468.0	2110.8	1785.8	1488.8	1207.9	951.1	722.3
17.5°	4671.1	4033.0	3459.2	2961.6	2528.2	2159.0	1825.9	1516.9	1232.0	967.1	734.4
15°	4807.5	4149.4	3551.5	3033.8	2584.3	2199.1	1858.0	1545.0	1252.0	983.2	742.4
12.5°	4927.9	4249.7	3631.7	3094.0	2628.5	2235.2	1890.1	1569.1	1272.1	995.2	754.4
10°	5024.2	4330.0	3695.9	3146.2	2668.6	2263.3	1910.2	1589.1	1284.1	1007.3	762.5
7.5°	5100.5	4394.2	3748.1	3182.3	2696.7	2287.4	1930.2	1601.2	1296.2	1015.3	774.5
5°	5156.6	4442.3	3784.2	3210.4	2720.8	2315.5	1954.3	1621.2	1312.2	1027.3	774.5
2.5°	5200.8	4478.5	3812.3	3234.4	2736.8	2315.5	1954.3	1621.2	1312.2	1027.3	774.5
0°	5200.8	4478.5	3812.3	3234.4	2736.8	2315.5	1954.3	1621.2	1312.2	1027.3	774.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.1	16.1	8.0	0.0
85°	44.1	28.1	16.1	0.0
82.5°	64.2	44.1	20.1	0.0
80°	84.3	56.2	28.1	0.0
77.5°	108.3	72.2	36.1	0.0
75°	128.4	84.3	44.1	0.0
72.5°	148.5	100.3	48.2	0.0
70°	168.5	112.4	56.2	0.0
67.5°	192.6	124.4	64.2	0.0
65°	212.7	140.5	68.2	0.0
62.5°	232.8	152.5	76.2	0.0
60°	252.8	164.5	80.3	0.0
57.5°	272.9	176.6	88.3	0.0
55°	292.9	192.6	96.3	0.0
52.5°	313.0	204.7	100.3	0.0
50°	333.1	216.7	104.3	0.0
47.5°	349.1	228.7	112.4	0.0
45°	369.2	240.8	116.4	0.0
42.5°	389.3	248.8	120.4	0.0
40°	405.3	260.8	124.4	0.0
37.5°	425.4	268.9	132.4	0.0
35°	441.4	280.9	136.4	0.0
32.5°	453.5	288.9	140.5	0.0
30°	469.5	297.0	144.5	0.0
27.5°	481.6	305.0	144.5	0.0
25°	493.6	313.0	148.5	0.0
22.5°	505.6	317.0	152.5	0.0
20°	517.7	325.0	156.5	0.0
17.5°	525.7	329.1	156.5	0.0
15°	533.7	333.1	164.5	0.0
12.5°	537.7	337.1	164.5	0.0
10°	545.8	345.1	164.5	0.0
7.5°	553.8	345.1	164.5	0.0
5°	553.8	345.1	164.5	0.0
2.5°	553.8	345.1	164.5	0.0
0°	553.8	345.1	164.5	0.0

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