

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: P623911

Luminaire Tested: **IFLD-S-SA6D-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623911
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

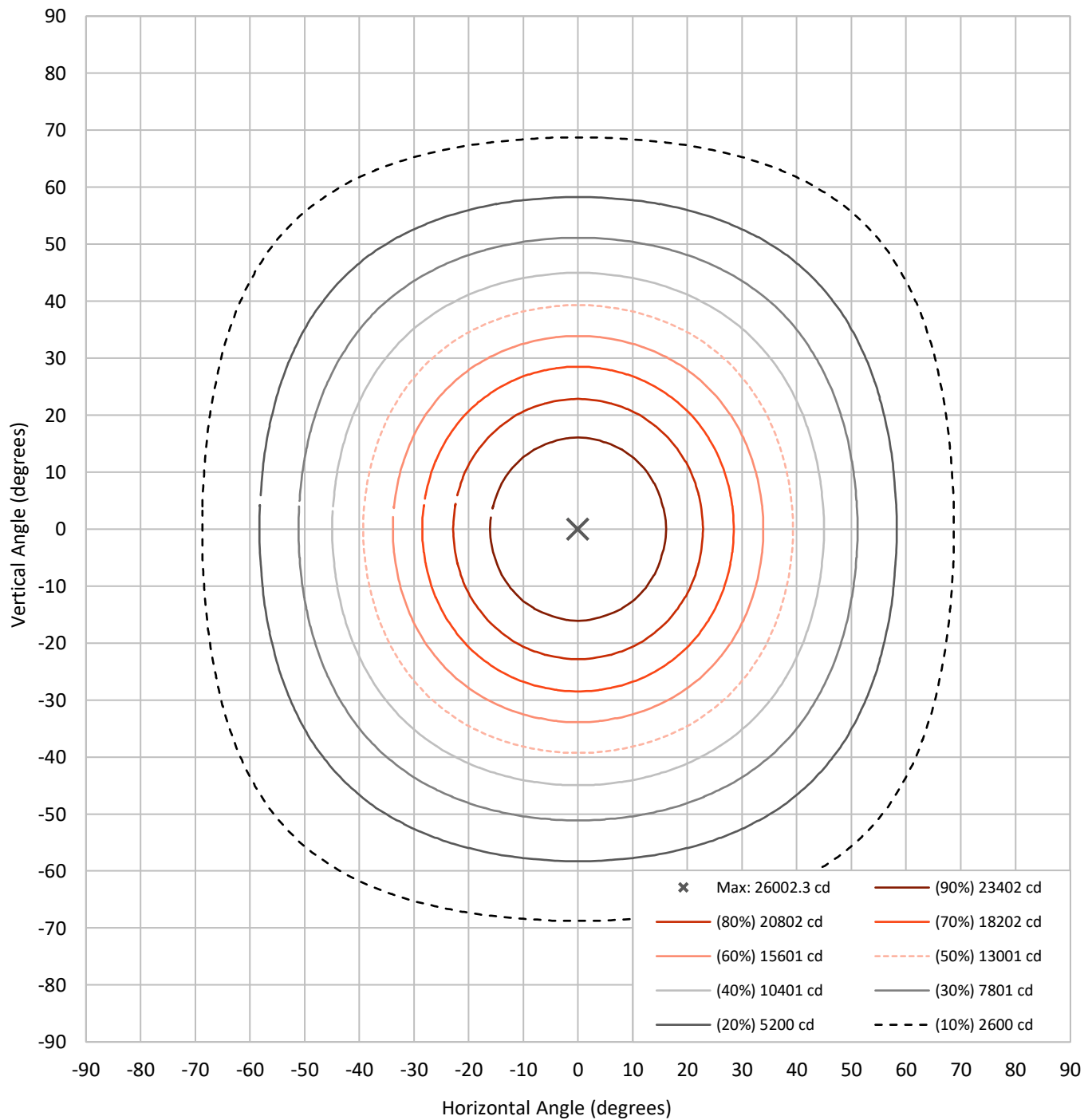
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	46817.6 lumens	Max Intensity:	26002.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	127.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	20257.5 lumens	Field Lumens:	33171 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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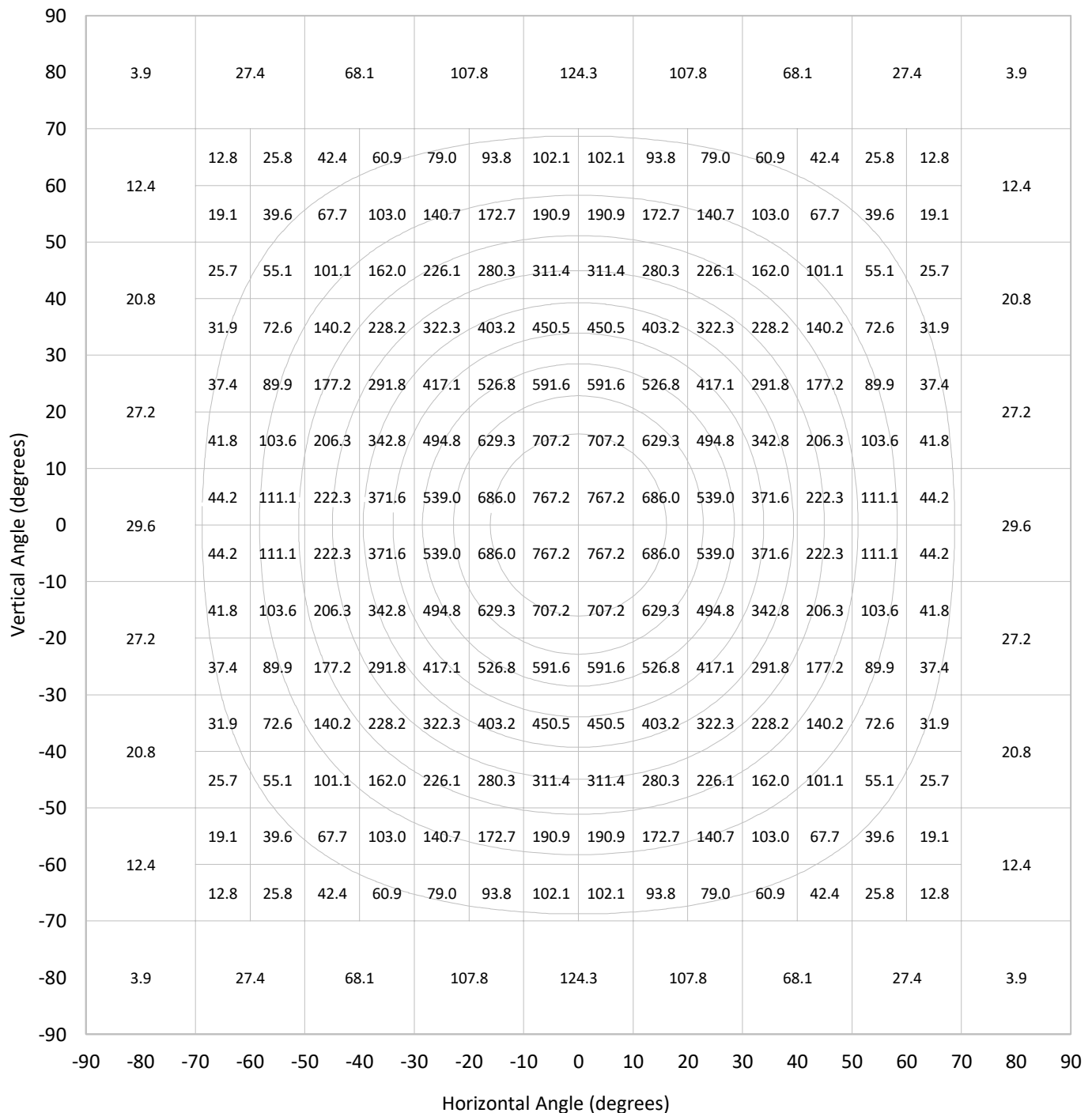
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Iso-Candela Plot



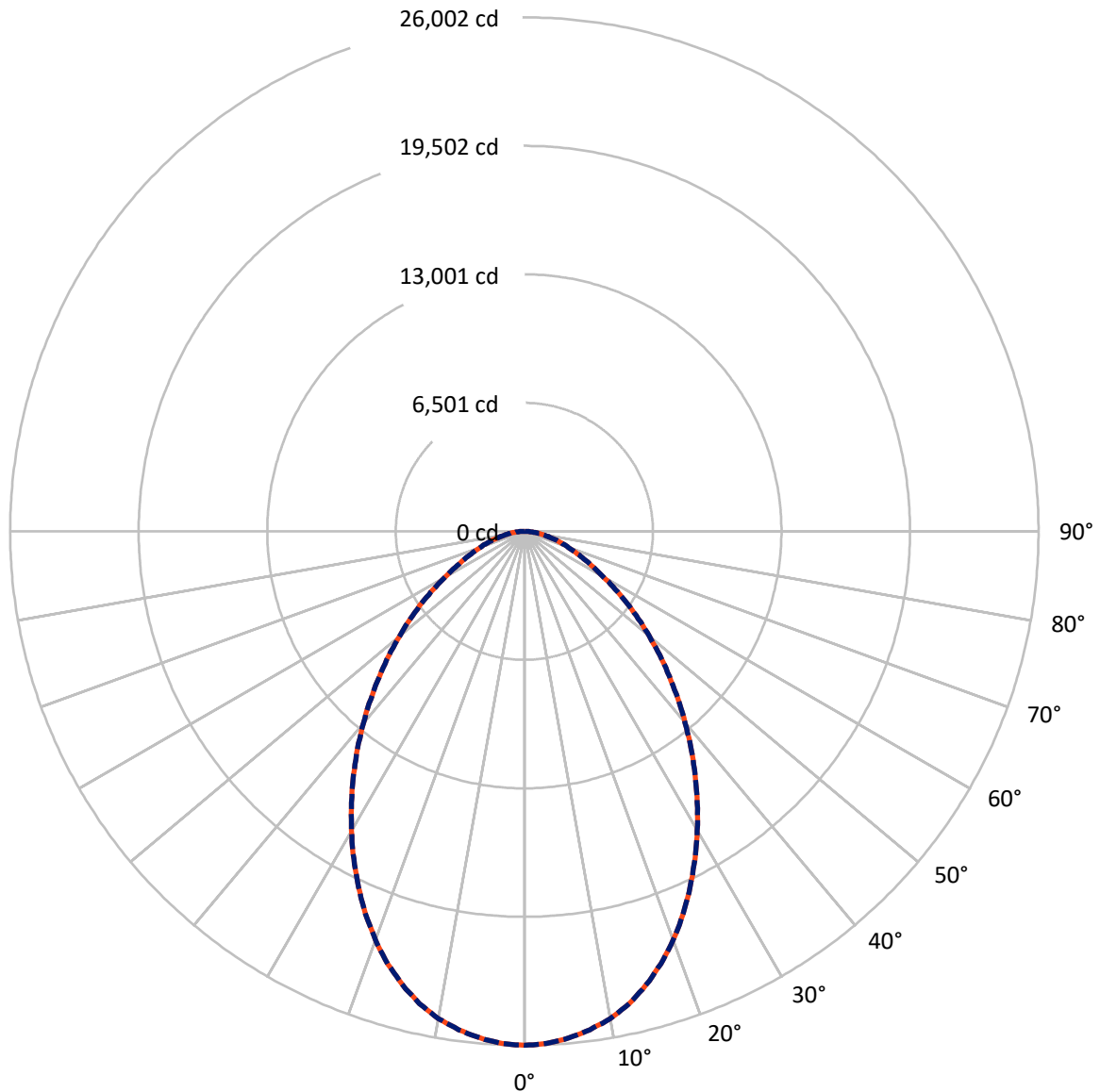
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Lumen Table



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Luminous Intensity Polar Plot

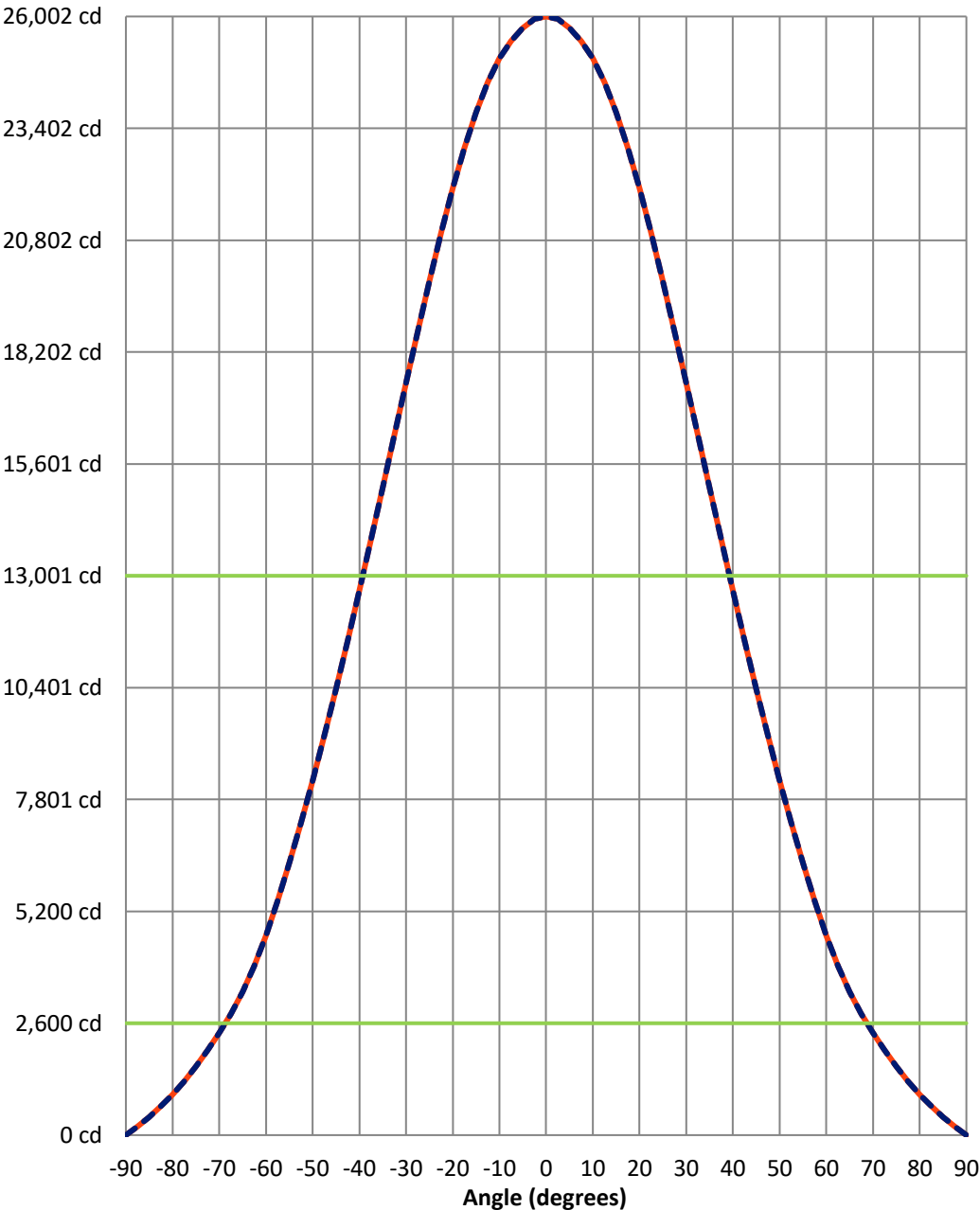


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 20257.5
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 33171
Efficiency: 70.9%

Spill:
Lumens: 13646.6
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°	200.1	200.1	200.1	200.1	200.1	200.1	200.1	190.4	190.4	185.5	180.6
85°	419.8	419.8	419.8	419.8	419.8	410.0	405.1	400.3	395.4	385.6	380.7
82.5°	673.6	673.6	673.6	673.6	663.8	654.1	649.2	639.4	629.7	615.0	600.4
80°	942.1	942.1	942.1	942.1	927.4	917.7	903.0	893.3	878.6	859.1	839.6
77.5°	1249.6	1249.6	1249.6	1234.9	1225.2	1210.5	1195.9	1176.4	1156.8	1132.4	1103.2
75°	1596.2	1596.2	1596.2	1576.6	1562.0	1547.3	1522.9	1498.5	1469.2	1435.1	1396.0
72.5°	1972.0	1972.0	1972.0	1947.6	1933.0	1908.6	1879.3	1845.1	1810.9	1767.0	1718.2
70°	2377.2	2377.2	2377.2	2347.9	2323.5	2299.1	2260.0	2221.0	2172.1	2123.3	2064.8
67.5°	2816.5	2816.5	2816.5	2782.3	2753.0	2718.8	2674.9	2626.1	2567.5	2499.2	2430.8
65°	3329.0	3329.0	3309.5	3280.2	3246.0	3197.2	3143.5	3075.2	3002.0	2914.1	2821.3
62.5°	3934.3	3934.3	3905.0	3870.8	3826.9	3763.4	3690.2	3602.3	3499.8	3387.6	3275.3
60°	4637.2	4637.2	4603.0	4559.1	4495.6	4417.5	4319.9	4207.6	4080.7	3939.1	3802.5
57.5°	5447.4	5447.4	5403.5	5344.9	5266.8	5169.2	5047.2	4905.6	4744.5	4568.8	4398.0
55°	6326.1	6326.1	6272.4	6204.0	6111.3	5994.1	5847.7	5681.7	5486.5	5286.4	5066.7
52.5°	7258.4	7258.4	7194.9	7116.8	7009.4	6872.8	6706.8	6511.5	6287.0	6052.7	5794.0
50°	8239.5	8239.5	8166.3	8078.4	7956.4	7795.3	7604.9	7380.4	7131.5	6858.1	6560.4
47.5°	9289.0	9289.0	9206.0	9103.5	8957.0	8771.6	8547.0	8288.3	8005.2	7697.7	7360.9
45°	10367.7	10367.7	10275.0	10157.8	9996.7	9786.8	9537.9	9289.0	8927.8	8571.4	8180.9
42.5°	11490.4	11490.4	11383.0	11251.2	11065.7	10836.3	10553.2	10231.0	9874.7	9474.4	9049.8
40°	12657.0	12657.0	12535.0	12383.7	12178.6	11915.1	11597.8	11236.6	10836.3	10392.1	9923.5
37.5°	13848.0	13848.0	13711.3	13545.4	13316.0	13023.1	12666.8	12266.5	11817.4	11324.4	10807.0
35°	15048.8	15048.8	14897.5	14716.9	14463.1	14140.9	13755.3	13311.1	12813.2	12276.3	11695.4
32.5°	16274.0	16274.0	16108.0	15903.0	15615.0	15258.7	14834.0	14350.8	13848.0	13223.2	12588.7
30°	17484.5	17484.5	17303.9	17079.4	16771.9	16381.4	15917.7	15385.6	14795.0	14155.5	13472.2
27.5°	18675.5	18626.7	18475.4	18236.2	17899.4	17484.5	16981.8	16405.8	15766.3	15063.4	14331.3
25°	19847.0	19793.3	19627.4	19363.8	19002.6	18548.6	18006.8	17391.8	16703.5	15961.6	15161.1
22.5°	20969.7	20911.1	20735.4	20452.3	20066.7	19573.7	18992.8	18333.9	17601.7	16806.0	15961.6
20°	22009.4	21946.0	21765.4	21467.6	21067.3	20545.1	19930.0	19222.2	18441.2	17601.7	16703.5
17.5°	22946.6	22883.2	22692.8	22385.3	22009.4	21428.6	20794.0	20047.2	19222.2	18333.9	17391.8
15°	23771.5	23703.2	23508.0	23200.4	22770.9	22224.2	21555.5	20794.0	19930.0	18992.8	18006.8
12.5°	24474.4	24406.1	24206.0	23898.5	23454.3	22907.6	22224.2	21428.6	20545.1	19573.7	18548.6
10°	25030.9	24962.6	24772.2	24479.3	24020.5	23454.3	22770.9	22009.4	21067.3	20066.7	19002.6
7.5°	25431.2	25367.7	25192.0	24899.1	24479.3	23898.5	23200.4	22385.3	21467.6	20452.3	19363.8
5°	25733.8	25660.6	25484.8	25192.0	24772.2	24206.0	23508.0	22692.8	21765.4	20735.4	19627.4
2.5°	25943.7	25855.8	25660.6	25367.7	24962.6	24406.1	23703.2	22883.2	21946.0	20911.1	19793.3
0°	26002.3	25943.7	25733.8	25431.2	25030.9	24474.4	23771.5	22946.6	22009.4	20969.7	19847.0

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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°	175.7	175.7	170.8	166.0	161.1	151.3	146.4	141.6	136.7	126.9	122.0
85°	371.0	361.2	351.4	341.7	327.0	317.3	302.6	292.9	278.2	263.6	248.9
82.5°	585.7	571.1	551.6	536.9	517.4	493.0	473.5	449.1	424.7	405.1	380.7
80°	820.0	795.6	771.2	746.8	717.5	688.3	659.0	629.7	595.5	561.3	527.2
77.5°	1073.9	1039.7	1005.5	966.5	932.3	893.3	854.2	815.2	771.2	727.3	683.4
75°	1357.0	1313.0	1264.2	1215.4	1171.5	1117.8	1064.1	1010.4	951.8	898.1	839.6
72.5°	1664.5	1610.8	1552.2	1493.7	1430.2	1361.9	1293.5	1220.3	1152.0	1083.6	1010.4
70°	1996.4	1933.0	1859.7	1786.5	1708.4	1625.4	1542.5	1454.6	1366.7	1278.9	1191.0
67.5°	2352.7	2274.6	2186.8	2098.9	2001.3	1903.7	1806.1	1703.5	1596.2	1488.8	1386.3
65°	2733.5	2635.9	2533.4	2421.1	2308.8	2196.5	2079.4	1957.4	1835.3	1708.4	1596.2
62.5°	3158.1	3036.1	2904.3	2767.7	2640.7	2504.1	2377.2	2225.8	2079.4	1937.8	1796.3
60°	3651.2	3490.1	3329.0	3158.1	2997.1	2821.3	2665.1	2499.2	2333.2	2172.1	2006.2
57.5°	4202.7	3997.7	3802.5	3597.5	3382.7	3187.4	2987.3	2787.2	2601.7	2411.3	2230.7
55°	4827.5	4578.6	4334.5	4080.7	3831.8	3587.7	3333.9	3109.3	2879.9	2665.1	2455.3
52.5°	5510.9	5227.8	4925.2	4637.2	4319.9	4017.2	3734.1	3451.0	3182.6	2923.9	2684.7
50°	6243.1	5911.2	5564.6	5213.1	4851.9	4495.6	4153.9	3822.0	3509.6	3207.0	2923.9
47.5°	7004.6	6628.7	6233.3	5833.1	5447.4	5013.0	4603.0	4227.1	3851.3	3509.6	3182.6
45°	7785.5	7360.9	6926.5	6472.5	6018.5	5549.9	5096.0	4637.2	4227.1	3822.0	3451.0
42.5°	8590.9	8112.6	7629.3	7126.6	6623.8	6111.3	5598.8	5096.0	4603.0	4153.9	3734.1
40°	9420.8	8893.6	8342.0	7795.3	7258.4	6672.6	6111.3	5549.9	5013.0	4495.6	4017.2
37.5°	10250.6	9674.6	9079.1	8464.0	7849.0	7258.4	6623.8	6018.5	5447.4	4851.9	4319.9
35°	11085.3	10450.7	9806.4	9137.6	8464.0	7795.3	7126.6	6472.5	5833.1	5213.1	4637.2
32.5°	11924.8	11231.7	10519.0	9806.4	9079.1	8342.0	7629.3	6926.5	6233.3	5564.6	4925.2
30°	12749.7	11998.0	11231.7	10450.7	9674.6	8893.6	8112.6	7360.9	6628.7	5911.2	5227.8
27.5°	13555.1	12749.7	11924.8	11085.3	10250.6	9420.8	8590.9	7785.5	7004.6	6243.1	5510.9
25°	14331.3	13472.2	12588.7	11695.4	10807.0	9923.5	9049.8	8180.9	7360.9	6560.4	5794.0
22.5°	15063.4	14155.5	13223.2	12276.3	11324.4	10392.1	9474.4	8571.4	7697.7	6858.1	6052.7
20°	15766.3	14795.0	13848.0	12813.2	11817.4	10836.3	9874.7	8927.8	8005.2	7131.5	6287.0
17.5°	16405.8	15385.6	14350.8	13311.1	12266.5	11236.6	10231.0	9289.0	8288.3	7380.4	6511.5
15°	16981.8	15917.7	14834.0	13755.3	12666.8	11597.8	10553.2	9537.9	8547.0	7604.9	6706.8
12.5°	17484.5	16381.4	15258.7	14140.9	13023.1	11915.1	10836.3	9786.8	8771.6	7795.3	6872.8
10°	17899.4	16771.9	15615.0	14463.1	13316.0	12178.6	11065.7	9996.7	8957.0	7956.4	7009.4
7.5°	18236.2	17079.4	15903.0	14716.9	13545.4	12383.7	11251.2	10157.8	9103.5	8078.4	7116.8
5°	18475.4	17303.9	16108.0	14897.5	13711.3	12535.0	11383.0	10275.0	9206.0	8166.3	7194.9
2.5°	18626.7	17484.5	16274.0	15048.8	13848.0	12657.0	11490.4	10367.7	9289.0	8239.5	7258.4
0°	18675.5	17484.5	16274.0	15048.8	13848.0	12657.0	11490.4	10367.7	9289.0	8239.5	7258.4

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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°	117.1	107.4	97.6	92.7	83.0	78.1	68.3	58.6	53.7	43.9	34.2
85°	234.3	214.8	200.1	185.5	170.8	151.3	136.7	122.0	102.5	87.9	68.3
82.5°	356.3	331.9	307.5	283.1	258.7	234.3	205.0	180.6	156.2	131.8	102.5
80°	493.0	454.0	419.8	385.6	351.4	317.3	278.2	244.1	205.0	170.8	136.7
77.5°	634.6	590.6	541.8	493.0	444.2	400.3	351.4	307.5	263.6	214.8	170.8
75°	785.9	727.3	673.6	610.2	551.6	488.1	429.5	371.0	317.3	263.6	205.0
72.5°	942.1	868.9	795.6	727.3	654.1	580.9	512.5	439.3	371.0	307.5	244.1
70°	1103.2	1015.3	927.4	844.5	761.5	673.6	595.5	512.5	429.5	351.4	278.2
67.5°	1274.0	1171.5	1069.0	961.6	868.9	771.2	673.6	580.9	488.1	400.3	317.3
65°	1459.5	1337.5	1210.5	1098.3	976.2	868.9	761.5	654.1	551.6	444.2	351.4
62.5°	1649.9	1508.3	1366.7	1225.2	1098.3	961.6	844.5	727.3	610.2	493.0	385.6
60°	1845.1	1684.0	1522.9	1366.7	1210.5	1069.0	927.4	795.6	673.6	541.8	419.8
57.5°	2045.2	1864.6	1684.0	1508.3	1337.5	1171.5	1015.3	868.9	727.3	590.6	454.0
55°	2250.2	2045.2	1845.1	1649.9	1459.5	1274.0	1103.2	942.1	785.9	634.6	493.0
52.5°	2455.3	2230.7	2006.2	1796.3	1596.2	1386.3	1191.0	1010.4	839.6	683.4	527.2
50°	2665.1	2411.3	2172.1	1937.8	1708.4	1488.8	1278.9	1083.6	898.1	727.3	561.3
47.5°	2879.9	2601.7	2333.2	2079.4	1835.3	1596.2	1366.7	1152.0	951.8	771.2	595.5
45°	3109.3	2787.2	2499.2	2225.8	1957.4	1703.5	1454.6	1220.3	1010.4	815.2	629.7
42.5°	3333.9	2987.3	2665.1	2377.2	2079.4	1806.1	1542.5	1293.5	1064.1	854.2	659.0
40°	3587.7	3187.4	2821.3	2504.1	2196.5	1903.7	1625.4	1361.9	1117.8	893.3	688.3
37.5°	3831.8	3382.7	2997.1	2640.7	2308.8	2001.3	1708.4	1430.2	1171.5	932.3	717.5
35°	4080.7	3597.5	3158.1	2767.7	2421.1	2098.9	1786.5	1493.7	1215.4	966.5	746.8
32.5°	4334.5	3802.5	3329.0	2904.3	2533.4	2186.8	1859.7	1552.2	1264.2	1005.5	771.2
30°	4578.6	3997.7	3490.1	3036.1	2635.9	2274.6	1933.0	1610.8	1313.0	1039.7	795.6
27.5°	4827.5	4202.7	3651.2	3158.1	2733.5	2352.7	1996.4	1664.5	1357.0	1073.9	820.0
25°	5066.7	4398.0	3802.5	3275.3	2821.3	2430.8	2064.8	1718.2	1396.0	1103.2	839.6
22.5°	5286.4	4568.8	3939.1	3387.6	2914.1	2499.2	2123.3	1767.0	1435.1	1132.4	859.1
20°	5486.5	4744.5	4080.7	3499.8	3002.0	2567.5	2172.1	1810.9	1469.2	1156.8	878.6
17.5°	5681.7	4905.6	4207.6	3602.3	3075.2	2626.1	2221.0	1845.1	1498.5	1176.4	893.3
15°	5847.7	5047.2	4319.9	3690.2	3143.5	2674.9	2260.0	1879.3	1522.9	1195.9	903.0
12.5°	5994.1	5169.2	4417.5	3763.4	3197.2	2718.8	2299.1	1908.6	1547.3	1210.5	917.7
10°	6111.3	5266.8	4495.6	3826.9	3246.0	2753.0	2323.5	1933.0	1562.0	1225.2	927.4
7.5°	6204.0	5344.9	4559.1	3870.8	3280.2	2782.3	2347.9	1947.6	1576.6	1234.9	942.1
5°	6272.4	5403.5	4603.0	3905.0	3309.5	2816.5	2377.2	1972.0	1596.2	1249.6	942.1
2.5°	6326.1	5447.4	4637.2	3934.3	3329.0	2816.5	2377.2	1972.0	1596.2	1249.6	942.1
0°	6326.1	5447.4	4637.2	3934.3	3329.0	2816.5	2377.2	1972.0	1596.2	1249.6	942.1

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.4	19.5	9.8	0.0
85°	53.7	34.2	19.5	0.0
82.5°	78.1	53.7	24.4	0.0
80°	102.5	68.3	34.2	0.0
77.5°	131.8	87.9	43.9	0.0
75°	156.2	102.5	53.7	0.0
72.5°	180.6	122.0	58.6	0.0
70°	205.0	136.7	68.3	0.0
67.5°	234.3	151.3	78.1	0.0
65°	258.7	170.8	83.0	0.0
62.5°	283.1	185.5	92.7	0.0
60°	307.5	200.1	97.6	0.0
57.5°	331.9	214.8	107.4	0.0
55°	356.3	234.3	117.1	0.0
52.5°	380.7	248.9	122.0	0.0
50°	405.1	263.6	126.9	0.0
47.5°	424.7	278.2	136.7	0.0
45°	449.1	292.9	141.6	0.0
42.5°	473.5	302.6	146.4	0.0
40°	493.0	317.3	151.3	0.0
37.5°	517.4	327.0	161.1	0.0
35°	536.9	341.7	166.0	0.0
32.5°	551.6	351.4	170.8	0.0
30°	571.1	361.2	175.7	0.0
27.5°	585.7	371.0	175.7	0.0
25°	600.4	380.7	180.6	0.0
22.5°	615.0	385.6	185.5	0.0
20°	629.7	395.4	190.4	0.0
17.5°	639.4	400.3	190.4	0.0
15°	649.2	405.1	200.1	0.0
12.5°	654.1	410.0	200.1	0.0
10°	663.8	419.8	200.1	0.0
7.5°	673.6	419.8	200.1	0.0
5°	673.6	419.8	200.1	0.0
2.5°	673.6	419.8	200.1	0.0
0°	673.6	419.8	200.1	0.0

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