

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: P628395

Luminaire Tested: **IFLD-S-SA6D-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628395
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

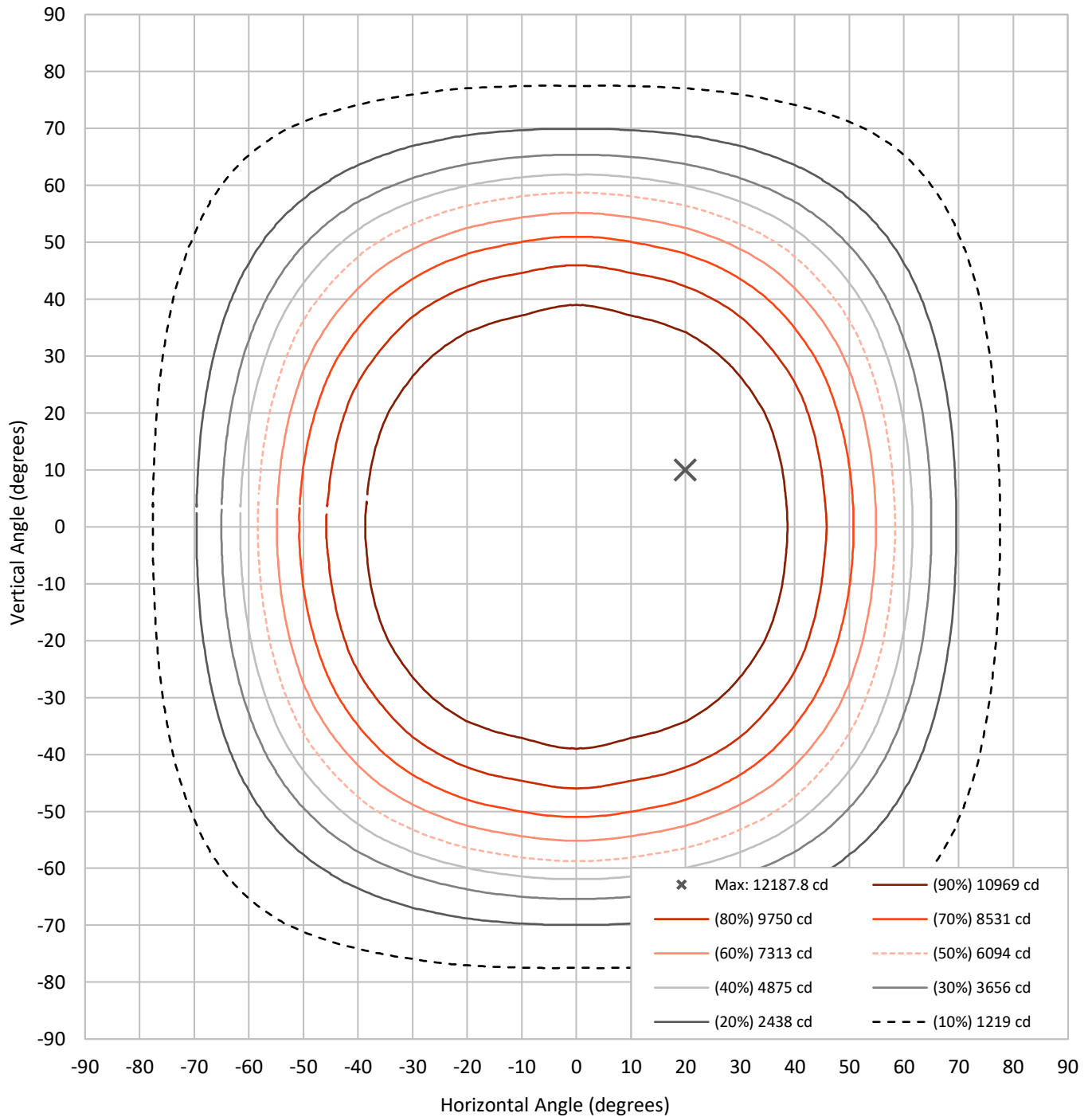
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37390.4 lumens	Max Intensity:	12187.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	101.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22943.5 lumens	Field Lumens:	27505.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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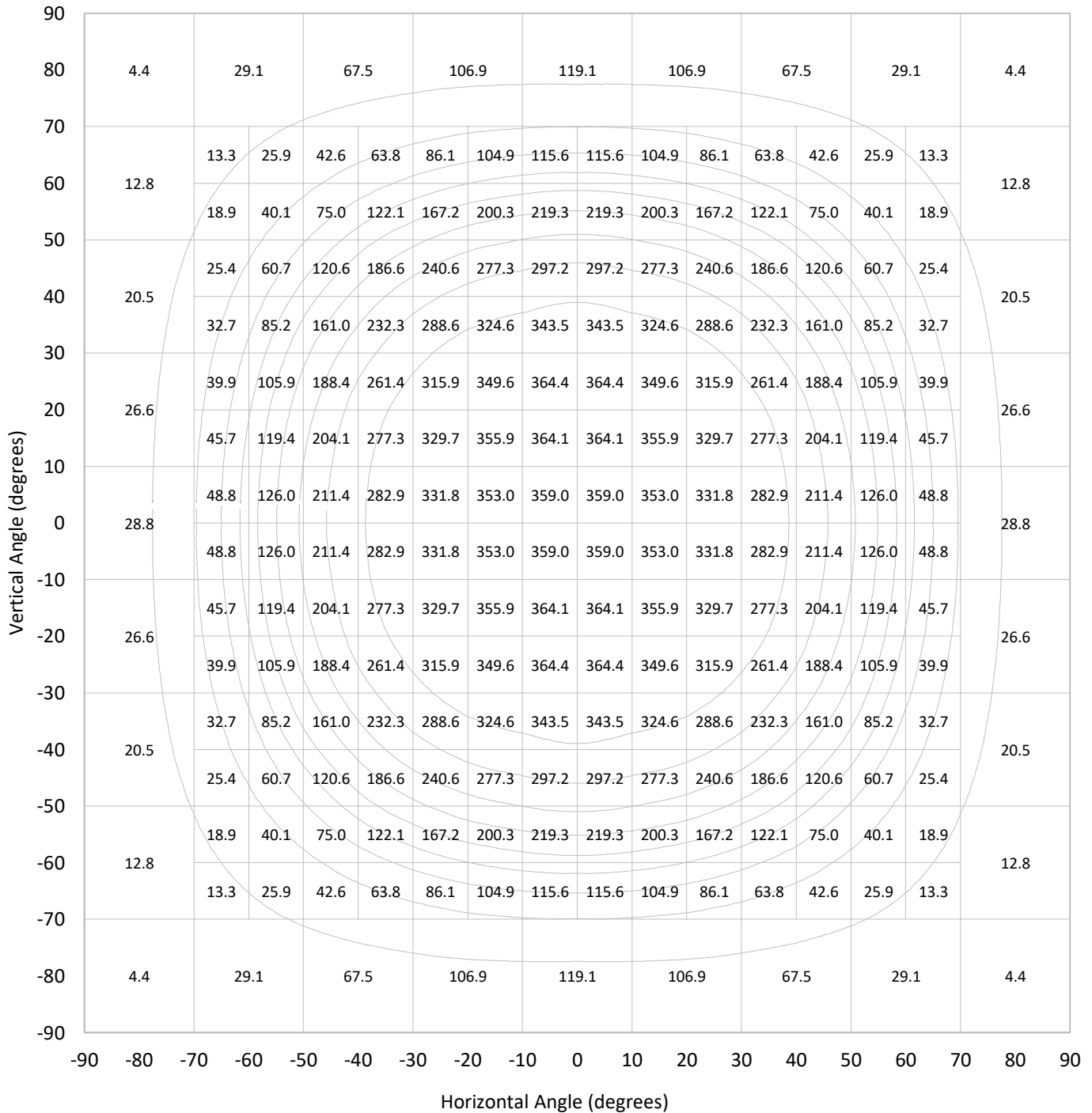
Iso-Candela Plot





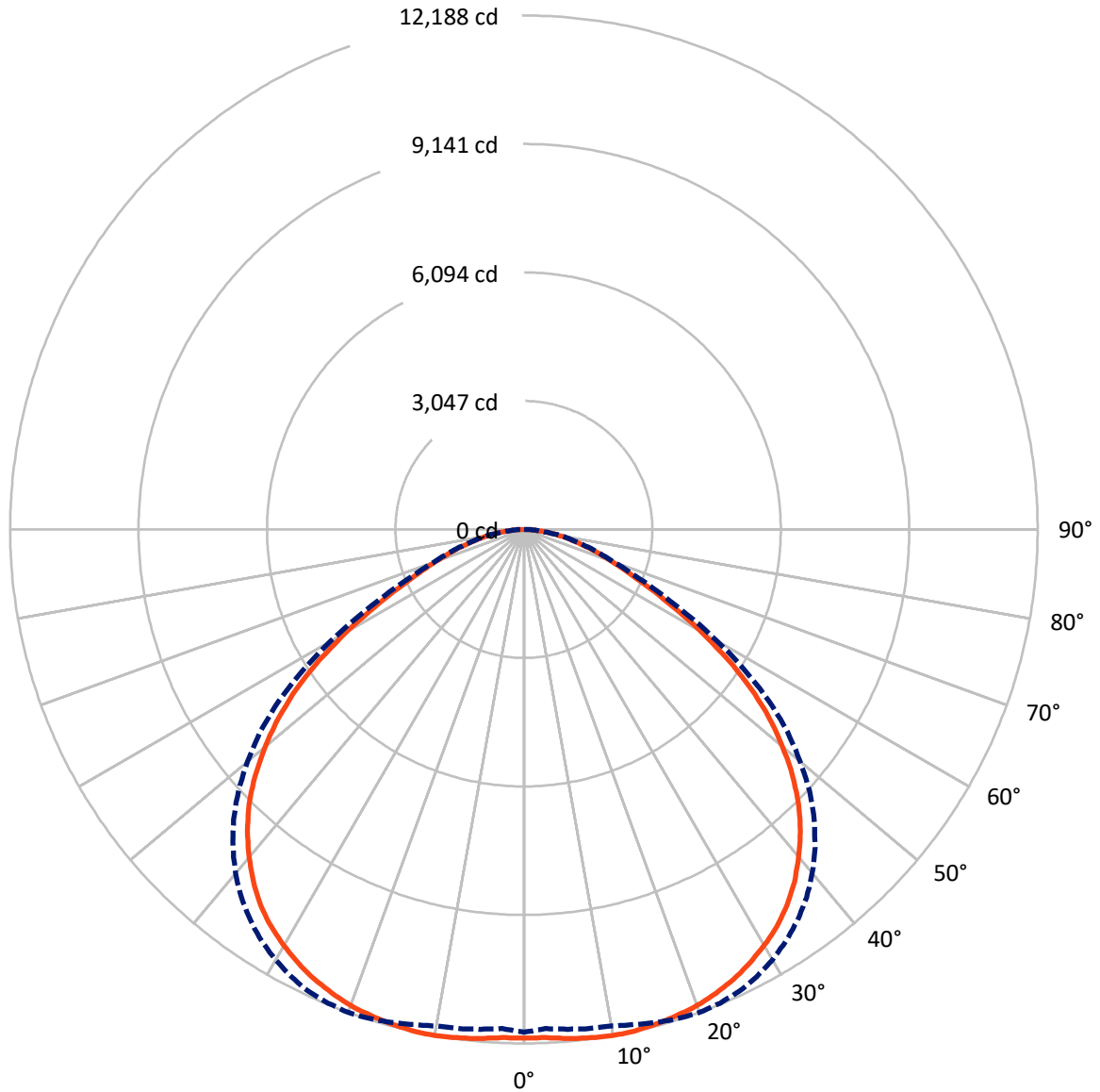
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Lumen Table



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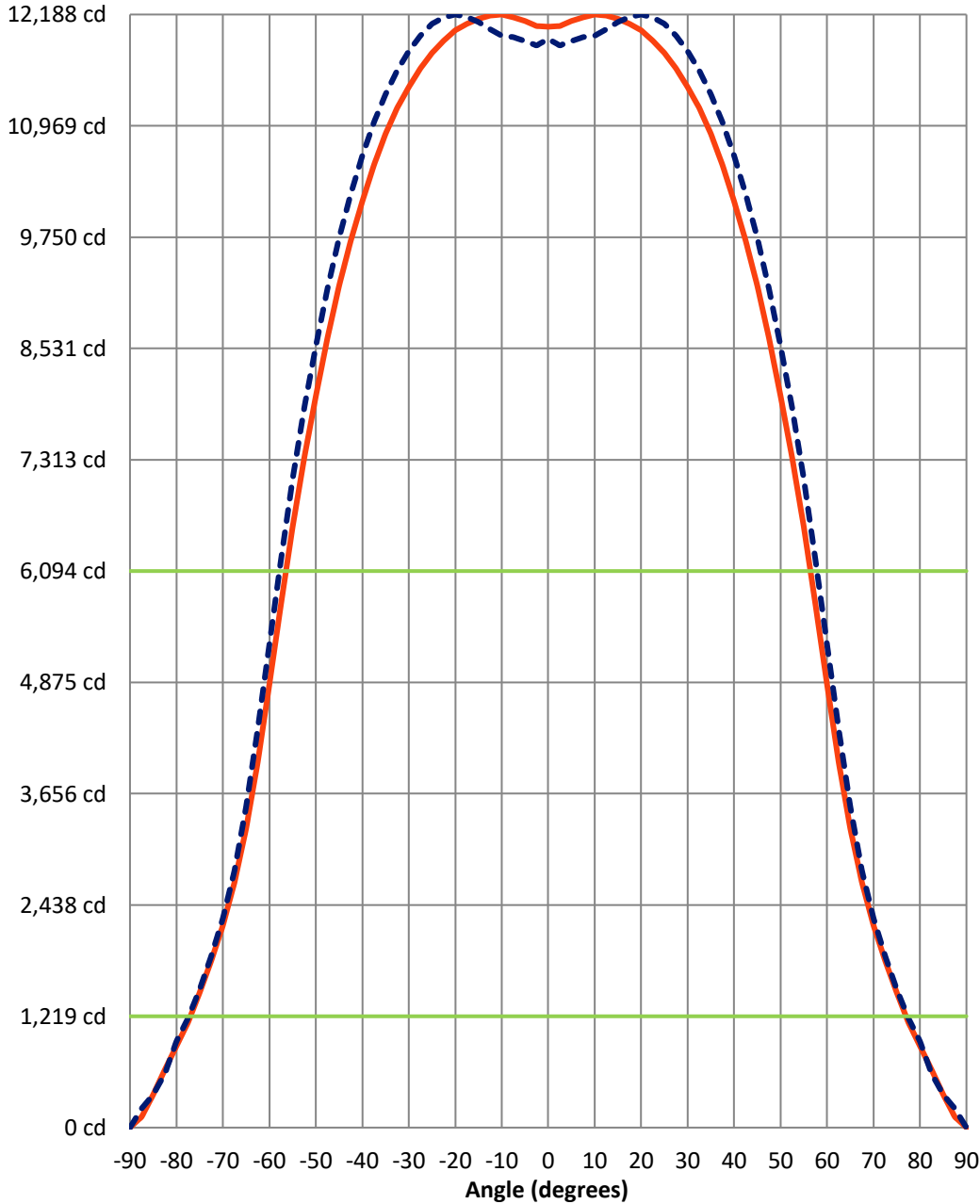
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 22943.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 27505.4
 Efficiency: 73.6%

Spill:
 Lumens: 9885
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-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°	98.4	106.2	110.2	114.1	118.0	122.0	125.9	122.0	118.0	118.0	114.1
85°	263.6	271.5	275.4	302.9	330.5	346.2	365.9	361.9	361.9	358.0	354.1
82.5°	527.2	550.8	570.4	598.0	613.7	637.3	653.1	641.3	633.4	617.6	605.8
80°	936.3	944.2	948.1	952.0	932.4	928.4	920.6	908.8	893.0	873.4	853.7
77.5°	1192.0	1199.9	1207.8	1199.9	1196.0	1192.0	1180.2	1168.4	1152.7	1136.9	1113.3
75°	1577.6	1577.6	1577.6	1565.8	1557.9	1546.1	1526.4	1506.7	1479.2	1447.7	1412.3
72.5°	1986.7	1982.8	1978.8	1955.2	1935.6	1912.0	1884.4	1860.8	1829.3	1793.9	1746.7
70°	2415.5	2423.4	2427.3	2395.9	2372.2	2340.8	2305.4	2262.1	2214.9	2163.7	2096.9
67.5°	3005.6	2997.8	2989.9	2946.6	2915.1	2871.9	2820.7	2757.8	2687.0	2608.3	2513.9
65°	3737.4	3749.2	3725.6	3682.3	3623.3	3552.5	3473.8	3383.3	3277.1	3159.1	3025.3
62.5°	4622.5	4642.2	4614.7	4559.6	4484.8	4390.4	4280.3	4150.4	4004.9	3839.7	3674.4
60°	5629.7	5625.7	5574.6	5499.8	5401.5	5283.5	5161.5	5019.9	4854.6	4661.9	4461.2
57.5°	6554.2	6546.3	6483.4	6408.6	6310.3	6184.4	6054.5	5905.0	5731.9	5527.4	5295.3
55°	7384.3	7376.4	7313.4	7234.8	7132.5	7006.6	6888.6	6746.9	6577.8	6361.4	6113.5
52.5°	8119.9	8123.9	8068.8	7982.2	7872.1	7750.1	7636.0	7494.4	7333.1	7116.7	6876.8
50°	8796.6	8792.7	8733.6	8655.0	8552.7	8434.7	8320.6	8178.9	8009.8	7801.3	7569.2
47.5°	9426.0	9418.2	9351.3	9264.7	9158.5	9056.2	8950.0	8824.1	8647.1	8438.6	8206.5
45°	9953.2	9937.5	9870.6	9788.0	9685.7	9595.2	9500.8	9406.4	9217.5	9024.8	8804.5
42.5°	10405.6	10401.7	10334.8	10252.2	10149.9	10071.2	9984.7	9866.7	9709.3	9532.3	9315.9
40°	10838.4	10806.9	10740.0	10661.3	10566.9	10500.0	10413.5	10295.5	10142.0	9968.9	9760.4
37.5°	11161.0	11164.9	11094.1	11007.5	10924.9	10862.0	10783.3	10673.1	10539.4	10370.2	10161.7
35°	11467.8	11448.2	11389.1	11314.4	11239.6	11168.8	11086.2	10991.8	10881.6	10724.3	10527.6
32.5°	11668.5	11696.0	11625.2	11546.5	11503.2	11448.2	11361.6	11263.2	11164.9	11007.5	10830.5
30°	11888.8	11865.2	11810.1	11743.2	11711.7	11676.3	11601.6	11507.2	11393.1	11251.4	11086.2
27.5°	12042.2	12030.4	11963.5	11900.6	11884.8	11853.4	11794.3	11711.7	11597.6	11460.0	11306.5
25°	12109.1	12116.9	12054.0	12018.6	12018.6	11998.9	11951.7	11880.9	11766.8	11640.9	11491.4
22.5°	12140.5	12132.7	12089.4	12081.5	12101.2	12085.5	12065.8	12002.9	11900.6	11798.3	11672.4
20°	12160.2	12105.1	12065.8	12097.3	12120.9	12116.9	12101.2	12061.9	12014.7	11928.1	11818.0
17.5°	12116.9	12081.5	12034.3	12081.5	12132.7	12136.6	12120.9	12097.3	12085.5	12030.4	11932.0
15°	12010.7	11983.2	11991.1	12038.3	12097.3	12116.9	12128.7	12156.3	12140.5	12097.3	12010.7
12.5°	11939.9	11904.5	11939.9	11987.1	12018.6	12030.4	12124.8	12176.0	12176.0	12136.6	12081.5
10°	11920.2	11849.4	11896.6	11939.9	11955.6	12026.5	12105.1	12160.2	12187.8	12156.3	12085.5
7.5°	11880.9	11833.7	11853.4	11873.0	11963.5	12014.7	12057.9	12116.9	12156.3	12152.3	12089.4
5°	11861.2	11802.2	11810.1	11892.7	11955.6	11991.1	12006.8	12057.9	12116.9	12128.7	12081.5
2.5°	11810.1	11782.5	11841.6	11849.4	11896.6	11924.2	11939.9	11987.1	12061.9	12089.4	12069.7
0°	11782.5	11743.2	11703.9	11735.3	11814.0	11873.0	11896.6	11967.4	12054.0	12081.5	12038.3



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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°	110.2	106.2	102.3	98.4	102.3	102.3	102.3	98.4	102.3	98.4	98.4
85°	342.3	326.5	314.7	299.0	283.3	271.5	255.7	240.0	236.0	232.1	224.2
82.5°	590.1	570.4	550.8	527.2	503.6	476.0	448.5	417.0	409.1	401.3	389.5
80°	830.1	802.6	775.0	747.5	723.9	696.3	664.9	629.5	605.8	586.2	562.6
77.5°	1081.9	1042.5	1003.2	956.0	928.4	900.9	869.4	834.0	798.6	767.1	731.7
75°	1369.1	1325.8	1286.4	1239.2	1188.1	1136.9	1085.8	1038.6	987.5	940.2	893.0
72.5°	1687.7	1624.8	1561.8	1502.8	1439.9	1376.9	1310.0	1247.1	1184.2	1121.2	1054.3
70°	2022.1	1943.4	1864.8	1786.1	1703.5	1620.8	1542.2	1463.5	1384.8	1302.2	1227.4
67.5°	2415.5	2325.0	2222.8	2112.6	1990.6	1884.4	1782.1	1687.7	1593.3	1498.9	1404.5
65°	2907.3	2781.4	2643.7	2494.2	2352.6	2210.9	2061.5	1919.8	1809.7	1699.5	1593.3
62.5°	3513.1	3336.1	3143.3	2950.6	2777.5	2592.6	2419.5	2234.6	2061.5	1904.1	1774.3
60°	4237.0	3997.0	3761.0	3513.1	3273.1	3021.4	2801.1	2572.9	2356.5	2163.7	1974.9
57.5°	5035.6	4756.3	4473.0	4170.1	3843.6	3548.5	3249.5	2950.6	2694.8	2439.1	2226.7
55°	5846.0	5551.0	5232.3	4890.1	4532.1	4154.4	3749.2	3414.8	3064.6	2765.7	2490.3
52.5°	6617.1	6310.3	5979.8	5665.1	5236.3	4803.5	4359.0	3918.3	3509.2	3127.6	2793.2
50°	7305.6	7006.6	6687.9	6322.1	5924.7	5464.4	4968.7	4473.0	3989.1	3540.7	3123.7
47.5°	7935.0	7643.9	7325.2	6959.4	6597.4	6086.0	5586.4	5039.5	4500.6	3985.2	3497.4
45°	8525.1	8230.1	7899.6	7549.5	7132.5	6676.1	6160.8	5610.0	5031.7	4453.4	3890.8
42.5°	9060.2	8765.1	8430.7	8068.8	7655.7	7203.3	6703.7	6149.0	5566.7	4937.3	4319.6
40°	9528.3	9241.1	8918.5	8540.9	8155.3	7679.3	7187.6	6660.4	6058.5	5425.1	4744.5
37.5°	9937.5	9669.9	9351.3	8977.6	8568.4	8143.5	7636.0	7108.9	6566.0	5877.5	5181.2
35°	10299.4	10051.6	9725.0	9371.0	8969.7	8521.2	8045.2	7529.8	6943.6	6298.4	5621.8
32.5°	10614.1	10362.3	10063.4	9709.3	9319.8	8898.9	8411.0	7891.7	7337.0	6680.1	5944.4
30°	10881.6	10637.7	10354.5	10020.1	9646.3	9229.3	8753.3	8230.1	7663.6	7010.5	6282.7
27.5°	11113.8	10881.6	10606.3	10295.5	9937.5	9536.2	9056.2	8529.1	7950.8	7321.3	6593.5
25°	11314.4	11090.1	10834.4	10539.4	10185.3	9791.9	9339.5	8788.7	8210.4	7577.0	6857.1
22.5°	11495.4	11279.0	11023.3	10736.1	10413.5	10020.1	9563.7	9016.9	8430.7	7805.2	7097.1
20°	11656.7	11456.0	11204.2	10909.2	10586.6	10189.2	9736.8	9217.5	8627.4	8013.7	7313.4
17.5°	11786.5	11609.4	11357.7	11046.9	10724.3	10338.7	9898.1	9422.1	8796.6	8190.7	7494.4
15°	11877.0	11703.9	11475.7	11161.0	10846.2	10464.6	10024.0	9532.3	8950.0	8332.4	7643.9
12.5°	11939.9	11755.0	11542.6	11251.4	10936.7	10559.1	10130.2	9646.3	9079.8	8458.3	7773.7
10°	11955.6	11786.5	11574.0	11314.4	11007.5	10641.7	10220.7	9740.8	9186.1	8556.6	7879.9
7.5°	11963.5	11802.2	11609.4	11361.6	11058.7	10704.6	10287.6	9815.5	9264.7	8639.2	7958.6
5°	11959.6	11806.2	11633.1	11393.1	11090.1	10740.0	10330.9	9866.7	9319.8	8694.3	8017.6
2.5°	11947.8	11810.1	11648.8	11416.7	11125.6	10779.4	10374.1	9925.7	9378.8	8741.5	8064.8
0°	11979.3	11861.2	11656.7	11408.8	11133.4	10779.4	10370.2	9933.5	9386.7	8737.6	8060.9



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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°	98.4	94.4	94.4	90.5	86.5	82.6	74.7	70.8	62.9	51.1	39.3
85°	212.4	200.6	188.8	181.0	173.1	165.2	153.4	141.6	125.9	102.3	78.7
82.5°	373.7	350.1	326.5	299.0	275.4	251.8	232.1	212.4	188.8	153.4	118.0
80°	535.0	499.6	464.2	424.9	389.5	350.1	314.7	283.3	251.8	204.6	157.4
77.5°	696.3	649.1	598.0	550.8	499.6	448.5	397.3	354.1	306.9	251.8	196.7
75°	845.8	790.7	743.5	676.7	613.7	546.8	480.0	420.9	361.9	295.1	236.0
72.5°	995.3	924.5	857.6	794.7	723.9	641.3	566.5	491.8	417.0	338.3	267.5
70°	1144.8	1058.3	975.6	900.9	822.2	739.6	649.1	562.6	472.1	377.7	295.1
67.5°	1298.2	1199.9	1105.5	1011.1	920.6	826.2	731.7	633.4	527.2	417.0	326.5
65°	1467.4	1345.5	1231.4	1125.1	1018.9	916.6	810.4	704.2	586.2	460.3	354.1
62.5°	1636.6	1502.8	1369.1	1235.3	1117.3	1003.2	889.1	771.1	641.3	507.5	381.6
60°	1817.5	1664.1	1510.7	1361.2	1215.6	1089.7	963.8	838.0	700.3	550.8	409.1
57.5°	2018.2	1833.3	1660.2	1491.0	1325.8	1176.3	1038.6	904.8	751.4	594.0	440.6
55°	2246.4	2018.2	1813.6	1624.8	1443.8	1262.8	1113.3	975.6	810.4	637.3	476.0
52.5°	2486.3	2222.8	1974.9	1762.5	1569.7	1365.1	1184.2	1030.7	869.4	680.6	507.5
50°	2765.7	2431.3	2155.9	1896.2	1679.8	1467.4	1258.9	1093.7	928.4	731.7	539.0
47.5°	3052.8	2683.0	2336.8	2053.6	1797.9	1565.8	1345.5	1148.7	983.5	778.9	570.4
45°	3387.2	2923.0	2541.4	2207.0	1912.0	1668.0	1432.0	1207.8	1030.7	826.2	601.9
42.5°	3709.8	3206.3	2753.9	2376.2	2041.8	1766.4	1510.7	1270.7	1077.9	873.4	629.5
40°	4091.4	3489.5	2958.4	2537.5	2171.6	1860.8	1589.4	1337.6	1121.2	916.6	657.0
37.5°	4457.3	3776.7	3206.3	2714.5	2297.5	1955.2	1668.0	1400.5	1160.6	959.9	692.4
35°	4819.2	4095.4	3442.3	2879.7	2427.3	2061.5	1746.7	1459.5	1199.9	995.3	723.9
32.5°	5165.4	4394.4	3682.3	3064.6	2568.9	2159.8	1817.5	1514.6	1239.2	1026.8	755.3
30°	5488.0	4677.6	3918.3	3253.5	2698.8	2250.3	1884.4	1569.7	1286.4	1054.3	786.8
27.5°	5783.1	4953.0	4154.4	3430.5	2820.7	2332.9	1955.2	1620.8	1325.8	1081.9	814.4
25°	6050.6	5200.8	4370.8	3591.8	2930.9	2423.4	2022.1	1672.0	1361.2	1105.5	838.0
22.5°	6302.4	5429.0	4567.5	3753.1	3064.6	2513.9	2085.1	1719.2	1396.6	1129.1	861.6
20°	6522.7	5637.5	4756.3	3914.4	3182.7	2596.5	2140.1	1762.5	1428.1	1144.8	885.2
17.5°	6699.7	5822.4	4925.5	4056.0	3285.0	2667.3	2187.3	1801.8	1455.6	1164.5	900.9
15°	6857.1	5979.8	5067.1	4178.0	3375.4	2726.3	2230.6	1833.3	1479.2	1176.3	920.6
12.5°	6990.8	6113.5	5189.0	4284.2	3454.1	2777.5	2266.0	1856.9	1498.9	1188.1	932.4
10°	7101.0	6219.8	5291.3	4366.8	3517.1	2816.8	2293.6	1880.5	1514.6	1199.9	944.2
7.5°	7183.6	6298.4	5366.1	4437.6	3568.2	2844.3	2317.2	1896.2	1530.4	1207.8	963.8
5°	7246.6	6365.3	5425.1	4484.8	3607.5	2883.7	2344.7	1915.9	1546.1	1215.6	963.8
2.5°	7293.8	6420.4	5472.3	4524.2	3639.0	2875.8	2344.7	1912.0	1546.1	1215.6	959.9
0°	7285.9	6424.3	5468.4	4524.2	3639.0	2867.9	2344.7	1908.0	1546.1	1215.6	959.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.5	19.7	7.9	0.0
85°	59.0	39.3	19.7	0.0
82.5°	86.5	55.1	27.5	0.0
80°	114.1	74.7	35.4	0.0
77.5°	145.6	94.4	47.2	0.0
75°	173.1	110.2	55.1	0.0
72.5°	200.6	129.8	62.9	0.0
70°	224.2	145.6	70.8	0.0
67.5°	247.8	165.2	82.6	0.0
65°	267.5	181.0	90.5	0.0
62.5°	283.3	200.6	98.4	0.0
60°	302.9	216.4	106.2	0.0
57.5°	318.7	228.2	114.1	0.0
55°	334.4	236.0	122.0	0.0
52.5°	350.1	247.8	129.8	0.0
50°	365.9	259.6	137.7	0.0
47.5°	381.6	267.5	141.6	0.0
45°	405.2	279.3	149.5	0.0
42.5°	424.9	287.2	157.4	0.0
40°	444.6	295.1	161.3	0.0
37.5°	464.2	302.9	169.2	0.0
35°	483.9	310.8	173.1	0.0
32.5°	499.6	318.7	177.0	0.0
30°	515.4	326.5	181.0	0.0
27.5°	531.1	330.5	184.9	0.0
25°	542.9	338.3	188.8	0.0
22.5°	554.7	342.3	192.8	0.0
20°	562.6	346.2	196.7	0.0
17.5°	574.4	350.1	200.6	0.0
15°	578.3	354.1	208.5	0.0
12.5°	586.2	358.0	208.5	0.0
10°	590.1	361.9	208.5	0.0
7.5°	598.0	361.9	208.5	0.0
5°	594.0	361.9	208.5	0.0
2.5°	594.0	361.9	208.5	0.0
0°	590.1	361.9	208.5	0.0

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