

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: P628309

Luminaire Tested: **IFLD-S-SA6E-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628309
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	55703.5 lumens	Max Intensity:	18157.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	120.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

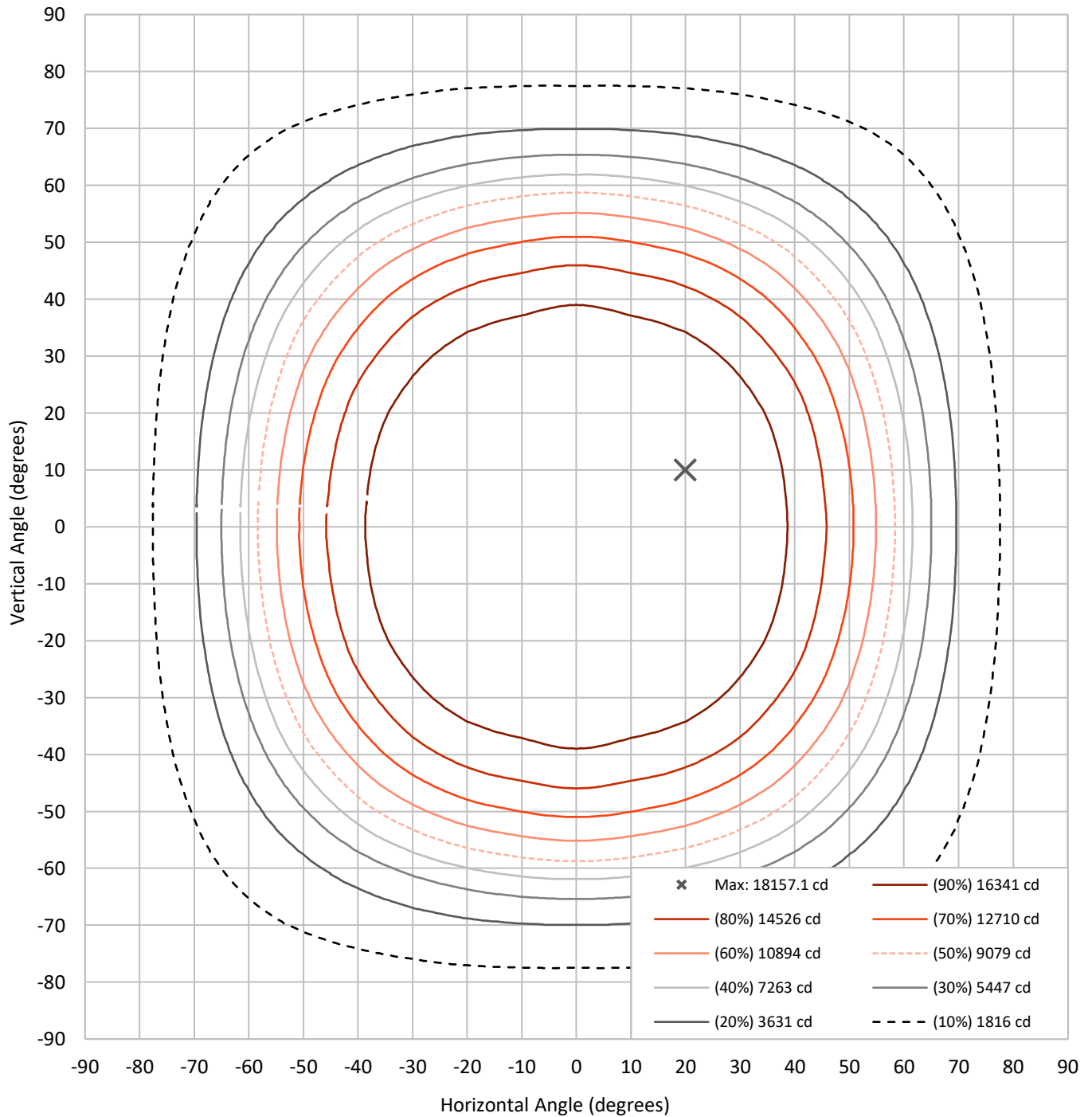
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	34180.8 lumens	Field Lumens:	40977 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2
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



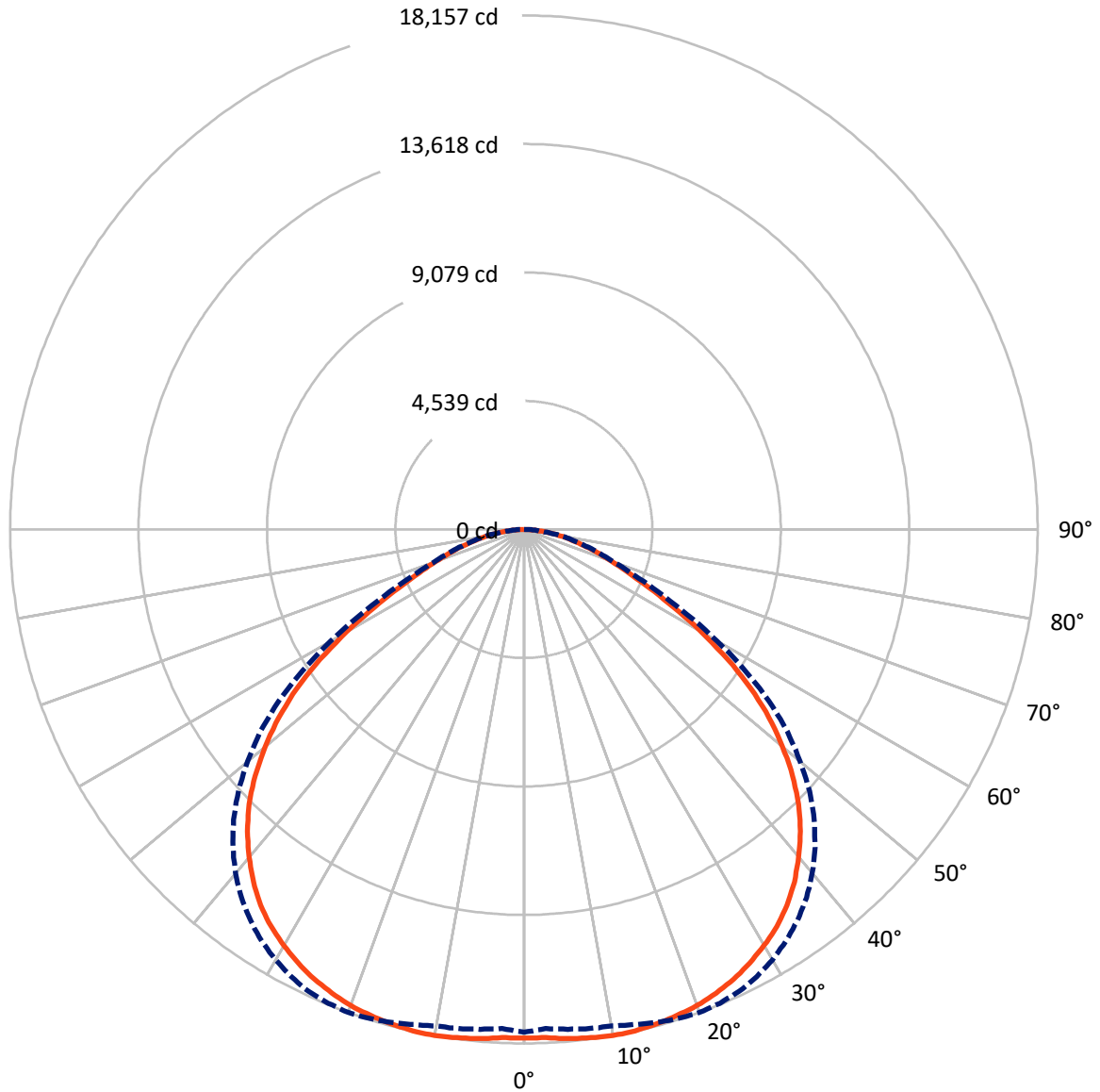
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Iso-Candela Plot



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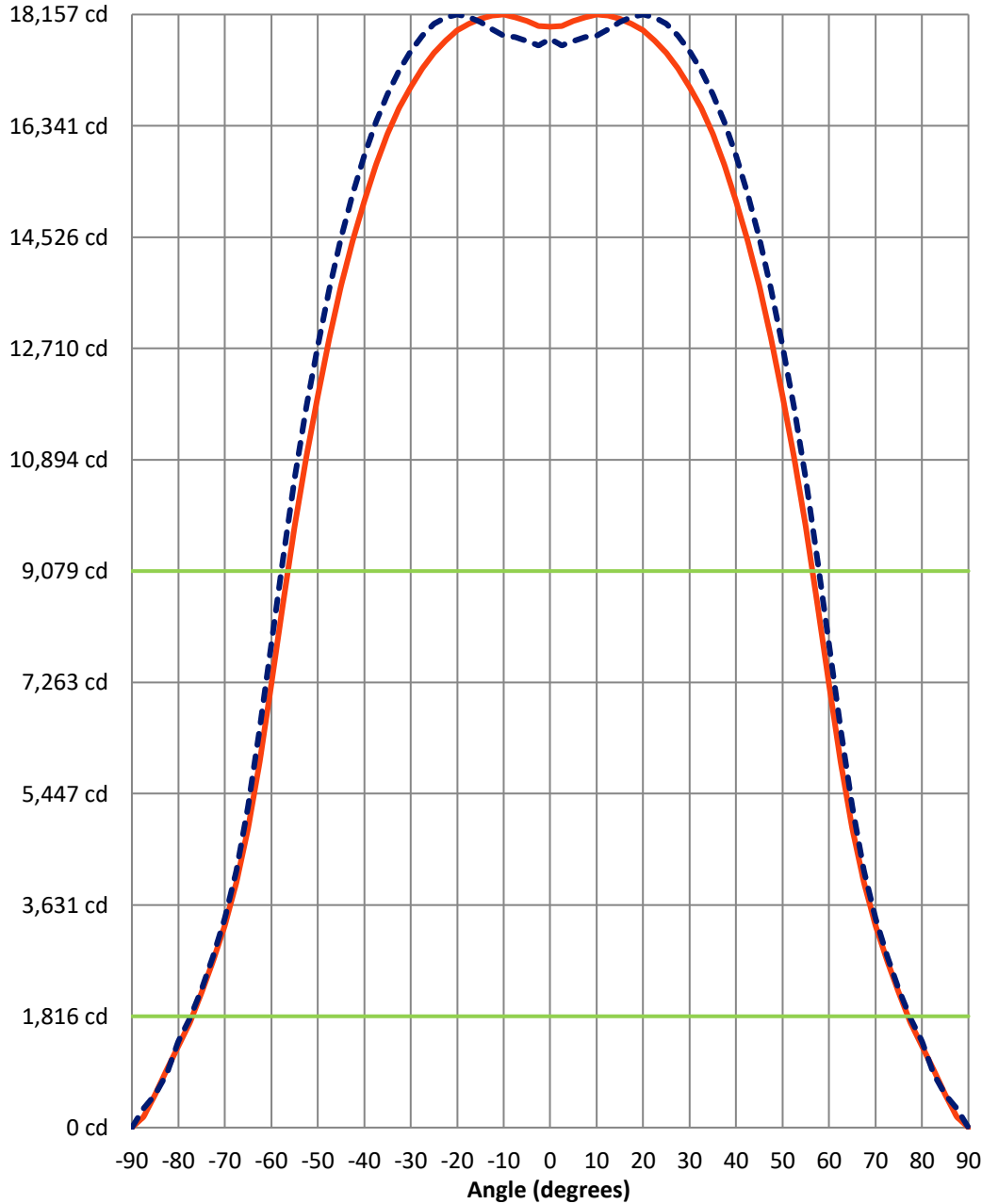
Luminous Intensity Polar Plot



— 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: 34180.8
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 40977
Efficiency: 73.6%

Spill:
Lumens: 14726.5
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°	146.5	158.2	164.1	170.0	175.8	181.7	187.5	181.7	175.8	175.8	170.0
85°	392.7	404.4	410.3	451.3	492.3	515.8	545.1	539.2	539.2	533.3	527.5
82.5°	785.4	820.5	849.8	890.9	914.3	949.5	972.9	955.3	943.6	920.2	902.6
80°	1394.9	1406.6	1412.5	1418.3	1389.0	1383.2	1371.5	1353.9	1330.4	1301.1	1271.8
77.5°	1775.9	1787.6	1799.3	1787.6	1781.7	1775.9	1758.3	1740.7	1717.2	1693.8	1658.6
75°	2350.2	2350.2	2350.2	2332.6	2320.9	2303.3	2274.0	2244.7	2203.7	2156.8	2104.1
72.5°	2959.8	2953.9	2948.0	2912.9	2883.6	2848.4	2807.4	2772.2	2725.3	2672.6	2602.2
70°	3598.6	3610.3	3616.2	3569.3	3534.1	3487.2	3434.5	3370.0	3299.7	3223.5	3123.9
67.5°	4477.7	4466.0	4454.3	4389.8	4342.9	4278.5	4202.3	4108.5	4003.0	3885.8	3745.1
65°	5567.9	5585.5	5550.3	5485.8	5397.9	5292.4	5175.2	5040.4	4882.1	4706.3	4507.0
62.5°	6886.6	6915.9	6874.9	6792.8	6681.4	6540.8	6376.7	6183.3	5966.4	5720.3	5474.1
60°	8387.0	8381.1	8304.9	8193.6	8047.0	7871.2	7689.5	7478.5	7232.4	6945.2	6646.3
57.5°	9764.3	9752.6	9658.8	9547.4	9400.9	9213.4	9019.9	8797.2	8539.4	8234.6	7888.8
55°	11000.9	10989.2	10895.4	10778.2	10625.8	10438.3	10262.5	10051.5	9799.5	9477.1	9107.9
52.5°	12096.9	12102.8	12020.7	11891.8	11727.7	11546.0	11376.0	11165.0	10924.7	10602.4	10244.9
50°	13105.0	13099.1	13011.2	12894.0	12741.6	12565.8	12395.8	12184.8	11932.8	11622.2	11276.4
47.5°	14042.8	14031.0	13931.4	13802.5	13644.2	13491.8	13333.6	13146.0	12882.3	12571.7	12225.9
45°	14828.1	14804.7	14705.0	14582.0	14429.6	14294.8	14154.1	14013.4	13732.1	13444.9	13116.7
42.5°	15502.1	15496.3	15396.6	15273.5	15121.2	15003.9	14875.0	14699.2	14464.7	14201.0	13878.6
40°	16146.8	16099.9	16000.3	15883.1	15742.4	15642.8	15513.8	15338.0	15109.4	14851.6	14540.9
37.5°	16627.4	16633.3	16527.8	16398.8	16275.8	16182.0	16064.8	15900.7	15701.4	15449.4	15138.7
35°	17084.6	17055.3	16967.3	16856.0	16744.6	16639.1	16516.1	16375.4	16211.3	15976.9	15683.8
32.5°	17383.5	17424.5	17319.0	17201.8	17137.3	17055.3	16926.3	16779.8	16633.3	16398.8	16135.1
30°	17711.7	17676.5	17594.5	17494.8	17447.9	17395.2	17283.8	17143.2	16973.2	16762.2	16516.1
27.5°	17940.3	17922.7	17823.0	17729.3	17705.8	17658.9	17571.0	17447.9	17278.0	17072.8	16844.3
25°	18039.9	18051.6	17957.8	17905.1	17905.1	17875.8	17805.5	17700.0	17530.0	17342.4	17119.7
22.5°	18086.8	18075.1	18010.6	17998.9	18028.2	18004.7	17975.4	17881.7	17729.3	17576.9	17389.3
20°	18116.1	18034.0	17975.4	18022.3	18057.5	18051.6	18028.2	17969.6	17899.2	17770.3	17606.2
17.5°	18051.6	17998.9	17928.5	17998.9	18075.1	18080.9	18057.5	18022.3	18004.7	17922.7	17776.2
15°	17893.4	17852.3	17864.1	17934.4	18022.3	18051.6	18069.2	18110.2	18086.8	18022.3	17893.4
12.5°	17787.9	17735.1	17787.9	17858.2	17905.1	17922.7	18063.3	18139.5	18139.5	18080.9	17998.9
10°	17758.6	17653.1	17723.4	17787.9	17811.3	17916.8	18034.0	18116.1	18157.1	18110.2	18004.7
7.5°	17700.0	17629.6	17658.9	17688.2	17823.0	17899.2	17963.7	18051.6	18110.2	18104.4	18010.6
5°	17670.7	17582.7	17594.5	17717.5	17811.3	17864.1	17887.5	17963.7	18051.6	18069.2	17998.9
2.5°	17594.5	17553.4	17641.4	17653.1	17723.4	17764.4	17787.9	17858.2	17969.6	18010.6	17981.3
0°	17553.4	17494.8	17436.2	17483.1	17600.3	17688.2	17723.4	17828.9	17957.8	17998.9	17934.4



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 CATALOG NUMBER: IFLD-S-SA6E-750-U-LAM

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°	164.1	158.2	152.4	146.5	152.4	152.4	152.4	146.5	152.4	146.5	146.5
85°	509.9	486.5	468.9	445.4	422.0	404.4	381.0	357.5	351.7	345.8	334.1
82.5°	879.1	849.8	820.5	785.4	750.2	709.2	668.1	621.3	609.5	597.8	580.2
80°	1236.7	1195.6	1154.6	1113.6	1078.4	1037.4	990.5	937.7	902.6	873.3	838.1
77.5°	1611.8	1553.1	1494.5	1424.2	1383.2	1342.1	1295.3	1242.5	1189.8	1142.9	1090.1
75°	2039.6	1975.1	1916.5	1846.2	1770.0	1693.8	1617.6	1547.3	1471.1	1400.8	1330.4
72.5°	2514.3	2420.6	2326.8	2238.9	2145.1	2051.3	1951.7	1857.9	1764.1	1670.4	1570.7
70°	3012.5	2895.3	2778.1	2660.9	2537.8	2414.7	2297.5	2180.3	2063.0	1940.0	1828.6
67.5°	3598.6	3463.8	3311.4	3147.3	2965.6	2807.4	2655.0	2514.3	2373.7	2233.0	2092.3
65°	4331.2	4143.7	3938.5	3715.8	3504.8	3293.8	3071.1	2860.1	2696.0	2531.9	2373.7
62.5°	5233.8	4970.1	4682.9	4395.7	4137.8	3862.3	3604.5	3329.0	3071.1	2836.7	2643.3
60°	6312.2	5954.7	5603.0	5233.8	4876.3	4501.2	4173.0	3833.0	3510.7	3223.5	2942.2
57.5°	7502.0	7085.8	6663.9	6212.6	5726.1	5286.5	4841.1	4395.7	4014.7	3633.8	3317.3
55°	8709.3	8269.8	7795.0	7285.1	6751.8	6189.1	5585.5	5087.3	4565.7	4120.2	3710.0
52.5°	9858.1	9400.9	8908.6	8439.7	7800.9	7156.2	6493.9	5837.5	5227.9	4659.4	4161.2
50°	10883.7	10438.3	9963.6	9418.5	8826.5	8140.8	7402.3	6663.9	5943.0	5274.8	4653.6
47.5°	11821.5	11387.8	10913.0	10368.0	9828.8	9066.8	8322.5	7507.8	6704.9	5937.1	5210.4
45°	12700.6	12261.0	11768.7	11247.1	10625.8	9946.0	9178.2	8357.7	7496.1	6634.6	5796.4
42.5°	13497.7	13058.1	12559.9	12020.7	11405.3	10731.3	9987.0	9160.6	8293.2	7355.4	6435.3
40°	14195.1	13767.3	13286.7	12724.0	12149.7	11440.5	10707.9	9922.5	9025.8	8082.2	7068.3
37.5°	14804.7	14406.1	13931.4	13374.6	12765.1	12132.1	11376.0	10590.7	9781.9	8756.2	7718.8
35°	15343.9	14974.6	14488.2	13960.7	13362.9	12694.7	11985.6	11217.8	10344.5	9383.3	8375.2
32.5°	15812.7	15437.7	14992.2	14464.7	13884.5	13257.4	12530.6	11757.0	10930.6	9951.8	8855.8
30°	16211.3	15847.9	15425.9	14927.8	14371.0	13749.7	13040.5	12261.0	11417.1	10444.2	9359.9
27.5°	16557.1	16211.3	15801.0	15338.0	14804.7	14206.9	13491.8	12706.5	11844.9	10907.2	9822.9
25°	16856.0	16521.9	16141.0	15701.4	15173.9	14587.8	13913.8	13093.3	12231.7	11288.1	10215.6
22.5°	17125.6	16803.2	16422.3	15994.4	15513.8	14927.8	14247.9	13433.2	12559.9	11628.1	10573.1
20°	17365.9	17067.0	16691.9	16252.3	15771.7	15179.8	14505.8	13732.1	12853.0	11938.7	10895.4
17.5°	17559.3	17295.6	16920.5	16457.4	15976.9	15402.5	14746.1	14036.9	13105.0	12202.4	11165.0
15°	17694.1	17436.2	17096.3	16627.4	16158.5	15590.0	14933.6	14201.0	13333.6	12413.4	11387.8
12.5°	17787.9	17512.4	17195.9	16762.2	16293.3	15730.7	15091.9	14371.0	13527.0	12601.0	11581.2
10°	17811.3	17559.3	17242.8	16856.0	16398.8	15853.8	15226.7	14511.6	13685.2	12747.5	11739.4
7.5°	17823.0	17582.7	17295.6	16926.3	16475.0	15947.6	15326.3	14623.0	13802.5	12870.6	11856.6
5°	17817.2	17588.6	17330.7	16973.2	16521.9	16000.3	15390.8	14699.2	13884.5	12952.6	11944.5
2.5°	17799.6	17594.5	17354.2	17008.4	16574.7	16058.9	15455.2	14787.1	13972.4	13023.0	12014.9
0°	17846.5	17670.7	17365.9	16996.7	16586.4	16058.9	15449.4	14798.8	13984.1	13017.1	12009.0



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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°	146.5	140.7	140.7	134.8	128.9	123.1	111.4	105.5	93.8	76.2	58.6
85°	316.5	298.9	281.3	269.6	257.9	246.2	228.6	211.0	187.5	152.4	117.2
82.5°	556.8	521.6	486.5	445.4	410.3	375.1	345.8	316.5	281.3	228.6	175.8
80°	797.1	744.3	691.6	633.0	580.2	521.6	468.9	422.0	375.1	304.8	234.4
77.5°	1037.4	967.1	890.9	820.5	744.3	668.1	592.0	527.5	457.2	375.1	293.0
75°	1260.1	1178.0	1107.7	1008.1	914.3	814.7	715.0	627.1	539.2	439.6	351.7
72.5°	1482.8	1377.3	1277.7	1183.9	1078.4	955.3	844.0	732.6	621.3	504.0	398.5
70°	1705.5	1576.6	1453.5	1342.1	1224.9	1101.9	967.1	838.1	703.3	562.6	439.6
67.5°	1934.1	1787.6	1646.9	1506.3	1371.5	1230.8	1090.1	943.6	785.4	621.3	486.5
65°	2186.1	2004.4	1834.5	1676.2	1518.0	1365.6	1207.3	1049.1	873.3	685.7	527.5
62.5°	2438.1	2238.9	2039.6	1840.3	1664.5	1494.5	1324.6	1148.7	955.3	756.1	568.5
60°	2707.7	2479.2	2250.6	2027.9	1811.0	1623.5	1435.9	1248.4	1043.2	820.5	609.5
57.5°	3006.6	2731.2	2473.3	2221.3	1975.1	1752.4	1547.3	1348.0	1119.4	885.0	656.4
55°	3346.6	3006.6	2701.9	2420.6	2151.0	1881.4	1658.6	1453.5	1207.3	949.5	709.2
52.5°	3704.1	3311.4	2942.2	2625.7	2338.5	2033.7	1764.1	1535.6	1295.3	1013.9	756.1
50°	4120.2	3622.0	3211.8	2825.0	2502.6	2186.1	1875.5	1629.3	1383.2	1090.1	802.9
47.5°	4548.1	3997.1	3481.4	3059.4	2678.4	2332.6	2004.4	1711.4	1465.2	1160.5	849.8
45°	5046.2	4354.7	3786.2	3288.0	2848.4	2485.0	2133.4	1799.3	1535.6	1230.8	896.7
42.5°	5526.8	4776.6	4102.6	3540.0	3041.8	2631.6	2250.6	1893.1	1605.9	1301.1	937.7
40°	6095.4	5198.6	4407.4	3780.3	3235.2	2772.2	2367.8	1992.7	1670.4	1365.6	978.8
37.5°	6640.4	5626.5	4776.6	4044.0	3422.8	2912.9	2485.0	2086.5	1729.0	1430.1	1031.5
35°	7179.6	6101.2	5128.3	4290.2	3616.2	3071.1	2602.2	2174.4	1787.6	1482.8	1078.4
32.5°	7695.4	6546.6	5485.8	4565.7	3827.2	3217.6	2707.7	2256.5	1846.2	1529.7	1125.3
30°	8176.0	6968.6	5837.5	4847.0	4020.6	3352.4	2807.4	2338.5	1916.5	1570.7	1172.2
27.5°	8615.5	7378.9	6189.1	5110.7	4202.3	3475.5	2912.9	2414.7	1975.1	1611.8	1213.2
25°	9014.1	7748.1	6511.5	5351.0	4366.4	3610.3	3012.5	2490.9	2027.9	1646.9	1248.4
22.5°	9389.2	8088.1	6804.5	5591.3	4565.7	3745.1	3106.3	2561.2	2080.6	1682.1	1283.5
20°	9717.4	8398.7	7085.8	5831.6	4741.5	3868.2	3188.3	2625.7	2127.5	1705.5	1318.7
17.5°	9981.1	8674.2	7337.9	6042.6	4893.9	3973.7	3258.7	2684.3	2168.5	1734.8	1342.1
15°	10215.6	8908.6	7548.9	6224.3	5028.7	4061.6	3323.1	2731.2	2203.7	1752.4	1371.5
12.5°	10414.8	9107.9	7730.5	6382.5	5145.9	4137.8	3375.9	2766.4	2233.0	1770.0	1389.0
10°	10579.0	9266.1	7882.9	6505.6	5239.7	4196.4	3416.9	2801.5	2256.5	1787.6	1406.6
7.5°	10702.0	9383.3	7994.3	6611.1	5315.9	4237.4	3452.1	2825.0	2279.9	1799.3	1435.9
5°	10795.8	9483.0	8082.2	6681.4	5374.5	4296.1	3493.1	2854.3	2303.3	1811.0	1435.9
2.5°	10866.1	9565.0	8152.5	6740.1	5421.3	4284.3	3493.1	2848.4	2303.3	1811.0	1430.1
0°	10854.4	9570.9	8146.7	6740.1	5421.3	4272.6	3493.1	2842.5	2303.3	1811.0	1430.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	41.0	29.3	11.7	0.0
85°	87.9	58.6	29.3	0.0
82.5°	128.9	82.1	41.0	0.0
80°	170.0	111.4	52.7	0.0
77.5°	216.9	140.7	70.3	0.0
75°	257.9	164.1	82.1	0.0
72.5°	298.9	193.4	93.8	0.0
70°	334.1	216.9	105.5	0.0
67.5°	369.2	246.2	123.1	0.0
65°	398.5	269.6	134.8	0.0
62.5°	422.0	298.9	146.5	0.0
60°	451.3	322.4	158.2	0.0
57.5°	474.7	339.9	170.0	0.0
55°	498.2	351.7	181.7	0.0
52.5°	521.6	369.2	193.4	0.0
50°	545.1	386.8	205.1	0.0
47.5°	568.5	398.5	211.0	0.0
45°	603.7	416.1	222.7	0.0
42.5°	633.0	427.8	234.4	0.0
40°	662.3	439.6	240.3	0.0
37.5°	691.6	451.3	252.0	0.0
35°	720.9	463.0	257.9	0.0
32.5°	744.3	474.7	263.7	0.0
30°	767.8	486.5	269.6	0.0
27.5°	791.2	492.3	275.5	0.0
25°	808.8	504.0	281.3	0.0
22.5°	826.4	509.9	287.2	0.0
20°	838.1	515.8	293.0	0.0
17.5°	855.7	521.6	298.9	0.0
15°	861.6	527.5	310.6	0.0
12.5°	873.3	533.3	310.6	0.0
10°	879.1	539.2	310.6	0.0
7.5°	890.9	539.2	310.6	0.0
5°	885.0	539.2	310.6	0.0
2.5°	885.0	539.2	310.6	0.0
0°	879.1	539.2	310.6	0.0

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