

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: P628318

Luminaire Tested: **IFLD-L-SA7D-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628318
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	51351.6 lumens	Max Intensity:	16738.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	121.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

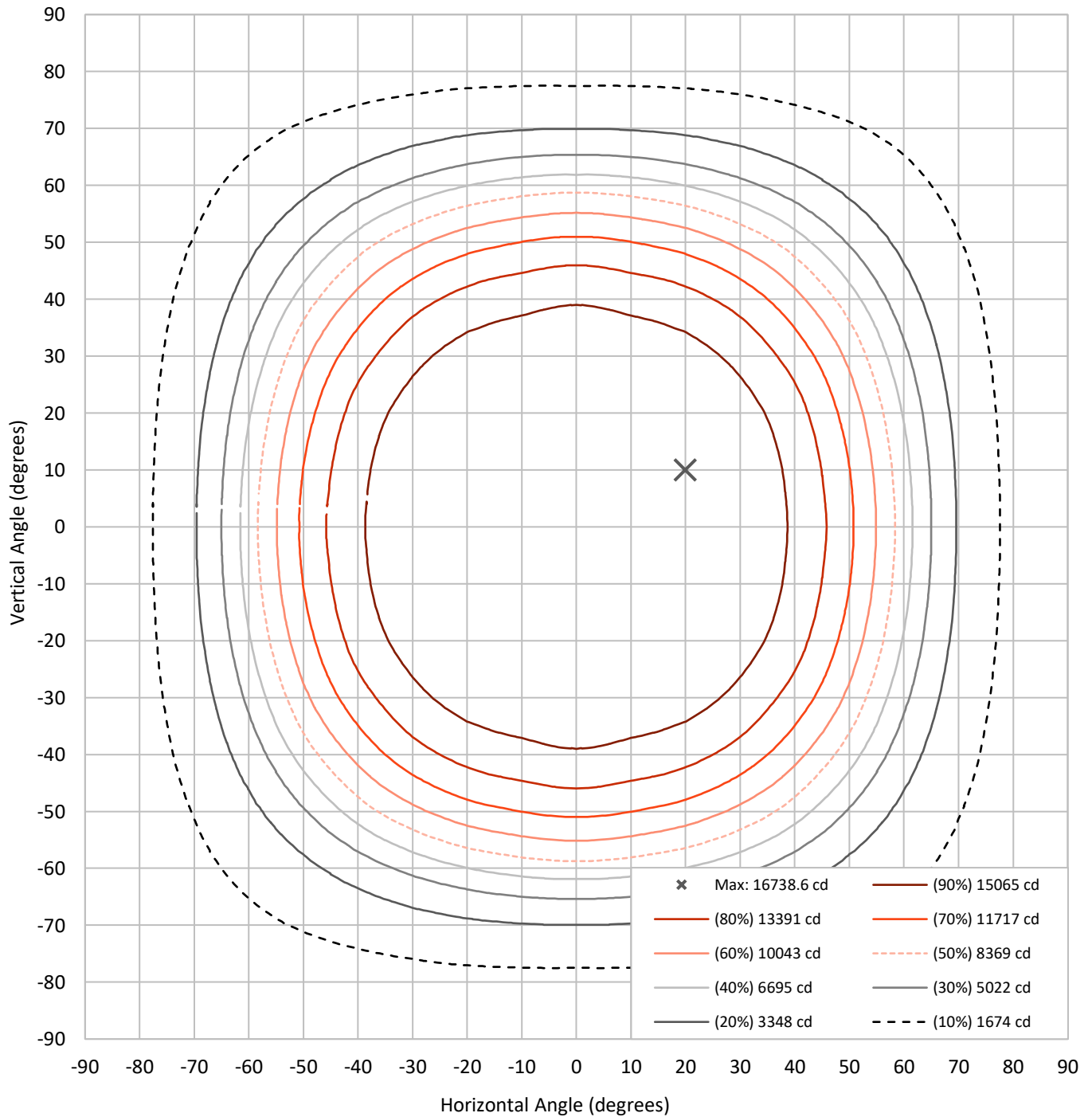
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	31510.4 lumens	Field Lumens:	37775.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 422.6
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



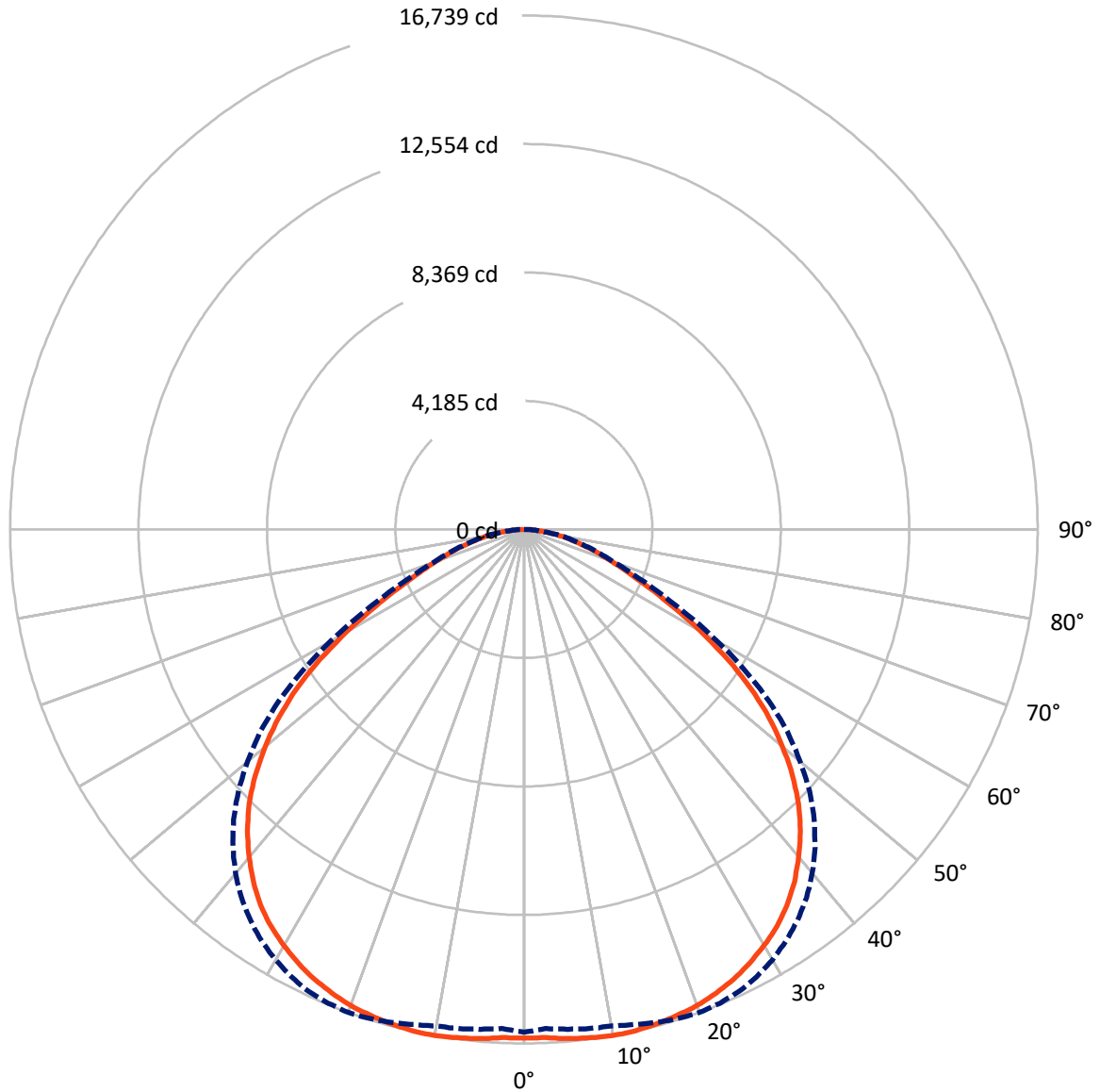
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Iso-Candela Plot



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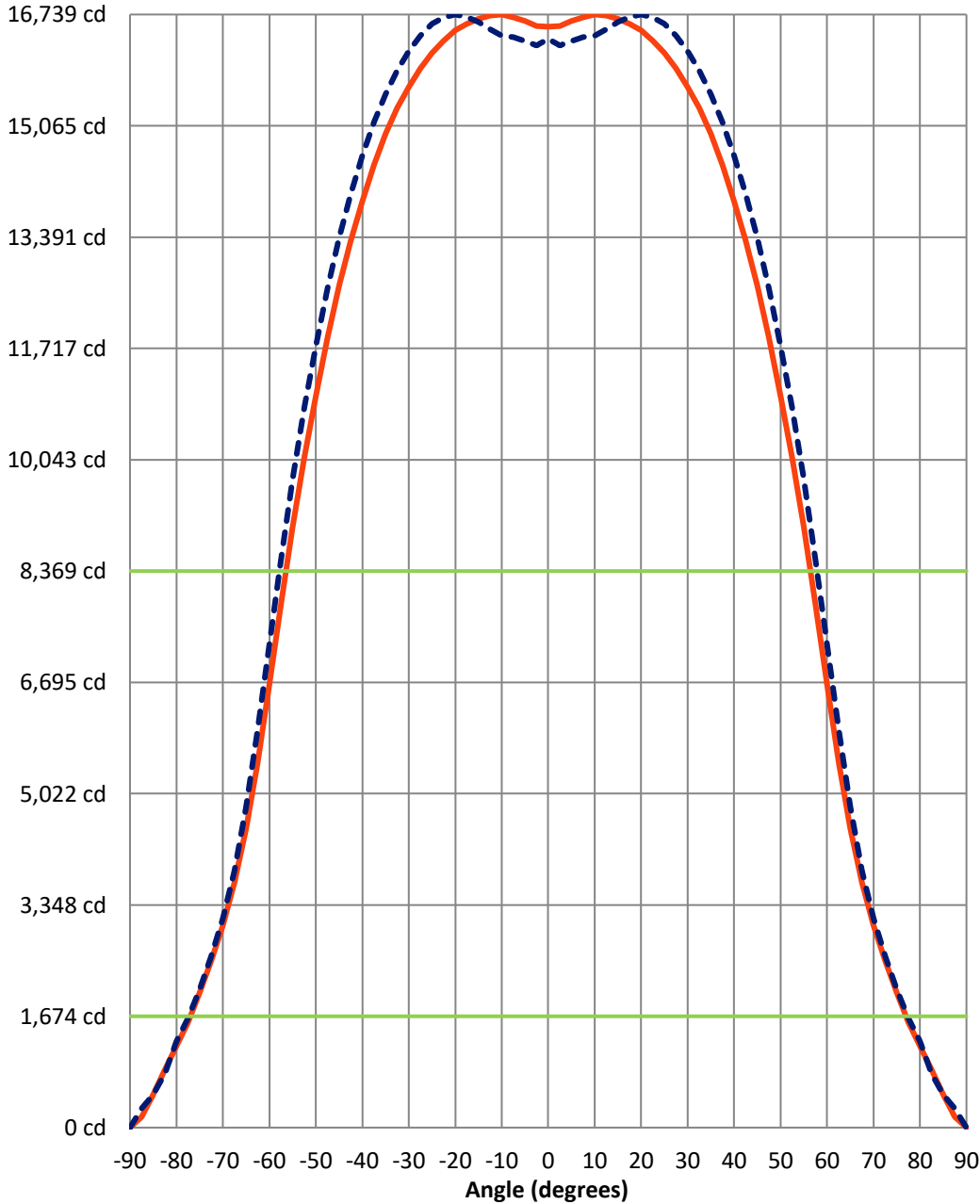
Luminous Intensity Polar Plot



— 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: 31510.4
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 37775.6
 Efficiency: 73.6%

Spill:
 Lumens: 13576
 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°	135.1	145.9	151.3	156.7	162.1	167.5	172.9	167.5	162.1	162.1	156.7
85°	362.0	372.8	378.2	416.0	453.9	475.5	502.5	497.1	497.1	491.7	486.3
82.5°	724.0	756.4	783.4	821.3	842.9	875.3	896.9	880.7	869.9	848.3	832.1
80°	1285.9	1296.7	1302.1	1307.5	1280.5	1275.1	1264.3	1248.1	1226.5	1199.5	1172.5
77.5°	1637.1	1647.9	1658.7	1647.9	1642.5	1637.1	1620.9	1604.7	1583.1	1561.5	1529.1
75°	2166.6	2166.6	2166.6	2150.4	2139.6	2123.4	2096.4	2069.4	2031.5	1988.3	1939.7
72.5°	2728.5	2723.1	2717.7	2685.3	2658.3	2625.9	2588.0	2555.6	2512.4	2463.8	2398.9
70°	3317.5	3328.3	3333.7	3290.4	3258.0	3214.8	3166.2	3106.7	3041.9	2971.7	2879.8
67.5°	4127.9	4117.1	4106.3	4046.9	4003.6	3944.2	3874.0	3787.5	3690.3	3582.2	3452.5
65°	5132.9	5149.1	5116.7	5057.2	4976.2	4878.9	4770.9	4646.6	4500.7	4338.6	4154.9
62.5°	6348.6	6375.6	6337.7	6262.1	6159.4	6029.8	5878.5	5700.2	5500.3	5273.4	5046.4
60°	7731.7	7726.3	7656.1	7553.4	7418.4	7256.3	7088.8	6894.3	6667.3	6402.6	6127.0
57.5°	9001.4	8990.6	8904.2	8801.5	8666.4	8493.6	8315.3	8109.9	7872.2	7591.2	7272.5
55°	10141.5	10130.7	10044.2	9936.2	9795.7	9622.8	9460.7	9266.2	9033.9	8736.7	8396.3
52.5°	11151.8	11157.2	11081.6	10962.7	10811.4	10644.0	10487.3	10292.8	10071.2	9774.1	9444.5
50°	12081.2	12075.8	11994.7	11886.7	11746.2	11584.1	11427.4	11232.9	11000.6	10714.2	10395.4
47.5°	12945.6	12934.8	12843.0	12724.1	12578.2	12437.8	12291.9	12119.0	11875.8	11589.5	11270.7
45°	13669.6	13648.0	13556.2	13442.7	13302.2	13178.0	13048.3	12918.6	12659.3	12394.5	12092.0
42.5°	14291.0	14285.6	14193.7	14080.3	13939.8	13831.7	13712.9	13550.8	13334.7	13091.5	12794.4
40°	14885.3	14842.1	14750.3	14642.2	14512.5	14420.7	14301.8	14139.7	13929.0	13691.3	13404.9
37.5°	15328.4	15333.8	15236.5	15117.7	15004.2	14917.7	14809.7	14658.4	14474.7	14242.4	13956.0
35°	15749.8	15722.8	15641.8	15539.1	15436.4	15339.2	15225.7	15096.0	14944.8	14728.6	14458.5
32.5°	16025.4	16063.2	15965.9	15857.9	15798.4	15722.8	15603.9	15468.9	15333.8	15117.7	14874.5
30°	16327.9	16295.5	16219.9	16128.0	16084.8	16036.2	15933.5	15803.8	15647.2	15452.6	15225.7
27.5°	16538.7	16522.4	16430.6	16344.1	16322.5	16279.3	16198.3	16084.8	15928.1	15739.0	15528.3
25°	16630.5	16641.3	16554.9	16506.2	16506.2	16479.2	16414.4	16317.1	16160.4	15987.5	15782.2
22.5°	16673.7	16662.9	16603.5	16592.7	16619.7	16598.1	16571.1	16484.6	16344.1	16203.7	16030.8
20°	16700.7	16625.1	16571.1	16614.3	16646.7	16641.3	16619.7	16565.7	16500.8	16382.0	16230.7
17.5°	16641.3	16592.7	16527.8	16592.7	16662.9	16668.3	16646.7	16614.3	16598.1	16522.4	16387.4
15°	16495.4	16457.6	16468.4	16533.2	16614.3	16641.3	16657.5	16695.3	16673.7	16614.3	16495.4
12.5°	16398.2	16349.5	16398.2	16463.0	16506.2	16522.4	16652.1	16722.4	16722.4	16668.3	16592.7
10°	16371.2	16273.9	16338.7	16398.2	16419.8	16517.0	16625.1	16700.7	16738.6	16695.3	16598.1
7.5°	16317.1	16252.3	16279.3	16306.3	16430.6	16500.8	16560.3	16641.3	16695.3	16689.9	16603.5
5°	16290.1	16209.1	16219.9	16333.3	16419.8	16468.4	16490.0	16560.3	16641.3	16657.5	16592.7
2.5°	16219.9	16182.1	16263.1	16273.9	16338.7	16376.6	16398.2	16463.0	16565.7	16603.5	16576.5
0°	16182.1	16128.0	16074.0	16117.2	16225.3	16306.3	16338.7	16436.0	16554.9	16592.7	16533.2



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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°	151.3	145.9	140.5	135.1	140.5	140.5	140.5	135.1	140.5	135.1	135.1
85°	470.1	448.5	432.2	410.6	389.0	372.8	351.2	329.6	324.2	318.8	308.0
82.5°	810.5	783.4	756.4	724.0	691.6	653.8	615.9	572.7	561.9	551.1	534.9
80°	1140.0	1102.2	1064.4	1026.6	994.2	956.3	913.1	864.5	832.1	805.1	772.6
77.5°	1485.8	1431.8	1377.8	1312.9	1275.1	1237.3	1194.1	1145.4	1096.8	1053.6	1005.0
75°	1880.3	1820.8	1766.8	1702.0	1631.7	1561.5	1491.2	1426.4	1356.2	1291.3	1226.5
72.5°	2317.9	2231.4	2145.0	2064.0	1977.5	1891.1	1799.2	1712.8	1626.3	1539.9	1448.0
70°	2777.2	2669.1	2561.0	2453.0	2339.5	2226.0	2118.0	2009.9	1901.9	1788.4	1685.7
67.5°	3317.5	3193.2	3052.7	2901.4	2733.9	2588.0	2447.6	2317.9	2188.2	2058.6	1928.9
65°	3992.8	3819.9	3630.8	3425.5	3231.0	3036.5	2831.2	2636.7	2485.4	2334.1	2188.2
62.5°	4824.9	4581.8	4317.0	4052.3	3814.5	3560.6	3322.9	3068.9	2831.2	2615.1	2436.8
60°	5819.1	5489.5	5165.3	4824.9	4495.3	4149.5	3847.0	3533.6	3236.4	2971.7	2712.3
57.5°	6915.9	6532.3	6143.2	5727.2	5278.8	4873.5	4462.9	4052.3	3701.1	3349.9	3058.1
55°	8028.9	7623.7	7186.0	6716.0	6224.3	5705.6	5149.1	4689.8	4209.0	3798.3	3420.1
52.5°	9087.9	8666.4	8212.6	7780.4	7191.4	6597.1	5986.5	5381.4	4819.5	4295.4	3836.1
50°	10033.4	9622.8	9185.1	8682.7	8137.0	7504.8	6824.0	6143.2	5478.7	4862.7	4290.0
47.5°	10897.9	10498.1	10060.4	9557.9	9060.9	8358.5	7672.3	6921.3	6181.1	5473.3	4803.3
45°	11708.4	11303.1	10849.3	10368.4	9795.7	9168.9	8461.1	7704.7	6910.5	6116.2	5343.6
42.5°	12443.2	12037.9	11578.7	11081.6	10514.3	9892.9	9206.8	8444.9	7645.3	6780.8	5932.5
40°	13086.1	12691.7	12248.7	11730.0	11200.5	10546.7	9871.3	9147.3	8320.7	7450.8	6516.0
37.5°	13648.0	13280.6	12843.0	12329.7	11767.8	11184.3	10487.3	9763.3	9017.6	8072.1	7115.8
35°	14145.1	13804.7	13356.3	12870.0	12318.9	11702.9	11049.2	10341.4	9536.3	8650.2	7720.9
32.5°	14577.4	14231.6	13820.9	13334.7	12799.8	12221.6	11551.7	10838.5	10076.6	9174.3	8164.0
30°	14944.8	14609.8	14220.8	13761.5	13248.2	12675.5	12021.7	11303.1	10525.1	9628.2	8628.6
27.5°	15263.5	14944.8	14566.5	14139.7	13648.0	13096.9	12437.8	11713.8	10919.5	10055.0	9055.5
25°	15539.1	15231.1	14879.9	14474.7	13988.4	13448.1	12826.8	12070.4	11276.1	10406.2	9417.5
22.5°	15787.6	15490.5	15139.3	14744.8	14301.8	13761.5	13134.7	12383.7	11578.7	10719.6	9747.1
20°	16009.2	15733.6	15387.8	14982.6	14539.5	13993.8	13372.5	12659.3	11848.8	11006.0	10044.2
17.5°	16187.5	15944.3	15598.5	15171.7	14728.6	14199.1	13594.0	12940.2	12081.2	11249.1	10292.8
15°	16311.7	16074.0	15760.6	15328.4	14896.1	14372.0	13766.9	13091.5	12291.9	11443.6	10498.1
12.5°	16398.2	16144.2	15852.5	15452.6	15020.4	14501.7	13912.8	13248.2	12470.2	11616.5	10676.4
10°	16419.8	16187.5	15895.7	15539.1	15117.7	14615.2	14037.1	13377.9	12616.1	11751.6	10822.3
7.5°	16430.6	16209.1	15944.3	15603.9	15187.9	14701.6	14128.9	13480.5	12724.1	11865.0	10930.3
5°	16425.2	16214.5	15976.7	15647.2	15231.1	14750.3	14188.3	13550.8	12799.8	11940.7	11011.4
2.5°	16409.0	16219.9	15998.4	15679.6	15279.7	14804.3	14247.8	13631.8	12880.8	12005.5	11076.2
0°	16452.2	16290.1	16009.2	15668.8	15290.6	14804.3	14242.4	13642.6	12891.6	12000.1	11070.8



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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°	135.1	129.7	129.7	124.3	118.9	113.5	102.7	97.3	86.4	70.2	54.0
85°	291.8	275.6	259.3	248.5	237.7	226.9	210.7	194.5	172.9	140.5	108.1
82.5°	513.3	480.9	448.5	410.6	378.2	345.8	318.8	291.8	259.3	210.7	162.1
80°	734.8	686.2	637.6	583.5	534.9	480.9	432.2	389.0	345.8	281.0	216.1
77.5°	956.3	891.5	821.3	756.4	686.2	615.9	545.7	486.3	421.4	345.8	270.2
75°	1161.6	1086.0	1021.2	929.3	842.9	751.0	659.2	578.1	497.1	405.2	324.2
72.5°	1367.0	1269.7	1177.9	1091.4	994.2	880.7	778.0	675.4	572.7	464.7	367.4
70°	1572.3	1453.4	1339.9	1237.3	1129.2	1015.8	891.5	772.6	648.4	518.7	405.2
67.5°	1783.0	1647.9	1518.2	1388.6	1264.3	1134.6	1005.0	869.9	724.0	572.7	448.5
65°	2015.3	1847.8	1691.1	1545.3	1399.4	1258.9	1113.0	967.1	805.1	632.2	486.3
62.5°	2247.7	2064.0	1880.3	1696.5	1534.5	1377.8	1221.1	1059.0	880.7	697.0	524.1
60°	2496.2	2285.5	2074.8	1869.4	1669.5	1496.6	1323.7	1150.8	961.7	756.4	561.9
57.5°	2771.8	2517.8	2280.1	2047.7	1820.8	1615.5	1426.4	1242.7	1032.0	815.9	605.1
55°	3085.1	2771.8	2490.8	2231.4	1982.9	1734.4	1529.1	1339.9	1113.0	875.3	653.8
52.5°	3414.7	3052.7	2712.3	2420.6	2155.8	1874.8	1626.3	1415.6	1194.1	934.7	697.0
50°	3798.3	3339.1	2960.9	2604.3	2307.1	2015.3	1729.0	1502.0	1275.1	1005.0	740.2
47.5°	4192.7	3684.9	3209.4	2820.4	2469.2	2150.4	1847.8	1577.7	1350.8	1069.8	783.4
45°	4652.0	4014.4	3490.4	3031.1	2625.9	2290.9	1966.7	1658.7	1415.6	1134.6	826.7
42.5°	5095.1	4403.5	3782.1	3263.4	2804.2	2426.0	2074.8	1745.2	1480.4	1199.5	864.5
40°	5619.1	4792.5	4063.1	3484.9	2982.5	2555.6	2182.8	1837.0	1539.9	1258.9	902.3
37.5°	6121.6	5186.9	4403.5	3728.1	3155.4	2685.3	2290.9	1923.5	1593.9	1318.3	950.9
35°	6618.7	5624.5	4727.6	3955.0	3333.7	2831.2	2398.9	2004.5	1647.9	1367.0	994.2
32.5°	7094.2	6035.2	5057.2	4209.0	3528.2	2966.3	2496.2	2080.2	1702.0	1410.2	1037.4
30°	7537.2	6424.2	5381.4	4468.3	3706.5	3090.5	2588.0	2155.8	1766.8	1448.0	1080.6
27.5°	7942.4	6802.4	5705.6	4711.4	3874.0	3204.0	2685.3	2226.0	1820.8	1485.8	1118.4
25°	8309.8	7142.8	6002.8	4933.0	4025.3	3328.3	2777.2	2296.3	1869.4	1518.2	1150.8
22.5°	8655.6	7456.2	6272.9	5154.5	4209.0	3452.5	2863.6	2361.1	1918.1	1550.7	1183.3
20°	8958.2	7742.5	6532.3	5376.0	4371.0	3566.0	2939.2	2420.6	1961.3	1572.3	1215.7
17.5°	9201.3	7996.5	6764.6	5570.5	4511.5	3663.2	3004.1	2474.6	1999.1	1599.3	1237.3
15°	9417.5	8212.6	6959.1	5738.0	4635.8	3744.3	3063.5	2517.8	2031.5	1615.5	1264.3
12.5°	9601.2	8396.3	7126.6	5883.9	4743.9	3814.5	3112.1	2550.2	2058.6	1631.7	1280.5
10°	9752.5	8542.2	7267.1	5997.4	4830.3	3868.6	3150.0	2582.6	2080.2	1647.9	1296.7
7.5°	9865.9	8650.2	7369.7	6094.6	4900.5	3906.4	3182.4	2604.3	2101.8	1658.7	1323.7
5°	9952.4	8742.1	7450.8	6159.4	4954.6	3960.4	3220.2	2631.3	2123.4	1669.5	1323.7
2.5°	10017.2	8817.7	7515.6	6213.5	4997.8	3949.6	3220.2	2625.9	2123.4	1669.5	1318.3
0°	10006.4	8823.1	7510.2	6213.5	4997.8	3938.8	3220.2	2620.5	2123.4	1669.5	1318.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	37.8	27.0	10.8	0.0
85°	81.0	54.0	27.0	0.0
82.5°	118.9	75.6	37.8	0.0
80°	156.7	102.7	48.6	0.0
77.5°	199.9	129.7	64.8	0.0
75°	237.7	151.3	75.6	0.0
72.5°	275.6	178.3	86.4	0.0
70°	308.0	199.9	97.3	0.0
67.5°	340.4	226.9	113.5	0.0
65°	367.4	248.5	124.3	0.0
62.5°	389.0	275.6	135.1	0.0
60°	416.0	297.2	145.9	0.0
57.5°	437.6	313.4	156.7	0.0
55°	459.3	324.2	167.5	0.0
52.5°	480.9	340.4	178.3	0.0
50°	502.5	356.6	189.1	0.0
47.5°	524.1	367.4	194.5	0.0
45°	556.5	383.6	205.3	0.0
42.5°	583.5	394.4	216.1	0.0
40°	610.5	405.2	221.5	0.0
37.5°	637.6	416.0	232.3	0.0
35°	664.6	426.8	237.7	0.0
32.5°	686.2	437.6	243.1	0.0
30°	707.8	448.5	248.5	0.0
27.5°	729.4	453.9	253.9	0.0
25°	745.6	464.7	259.3	0.0
22.5°	761.8	470.1	264.7	0.0
20°	772.6	475.5	270.2	0.0
17.5°	788.8	480.9	275.6	0.0
15°	794.2	486.3	286.4	0.0
12.5°	805.1	491.7	286.4	0.0
10°	810.5	497.1	286.4	0.0
7.5°	821.3	497.1	286.4	0.0
5°	815.9	497.1	286.4	0.0
2.5°	815.9	497.1	286.4	0.0
0°	810.5	497.1	286.4	0.0

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