

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: P628279

Luminaire Tested: **IFLD-S-SA6D-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628279
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	47055.6 lumens	Max Intensity:	15338.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	127.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

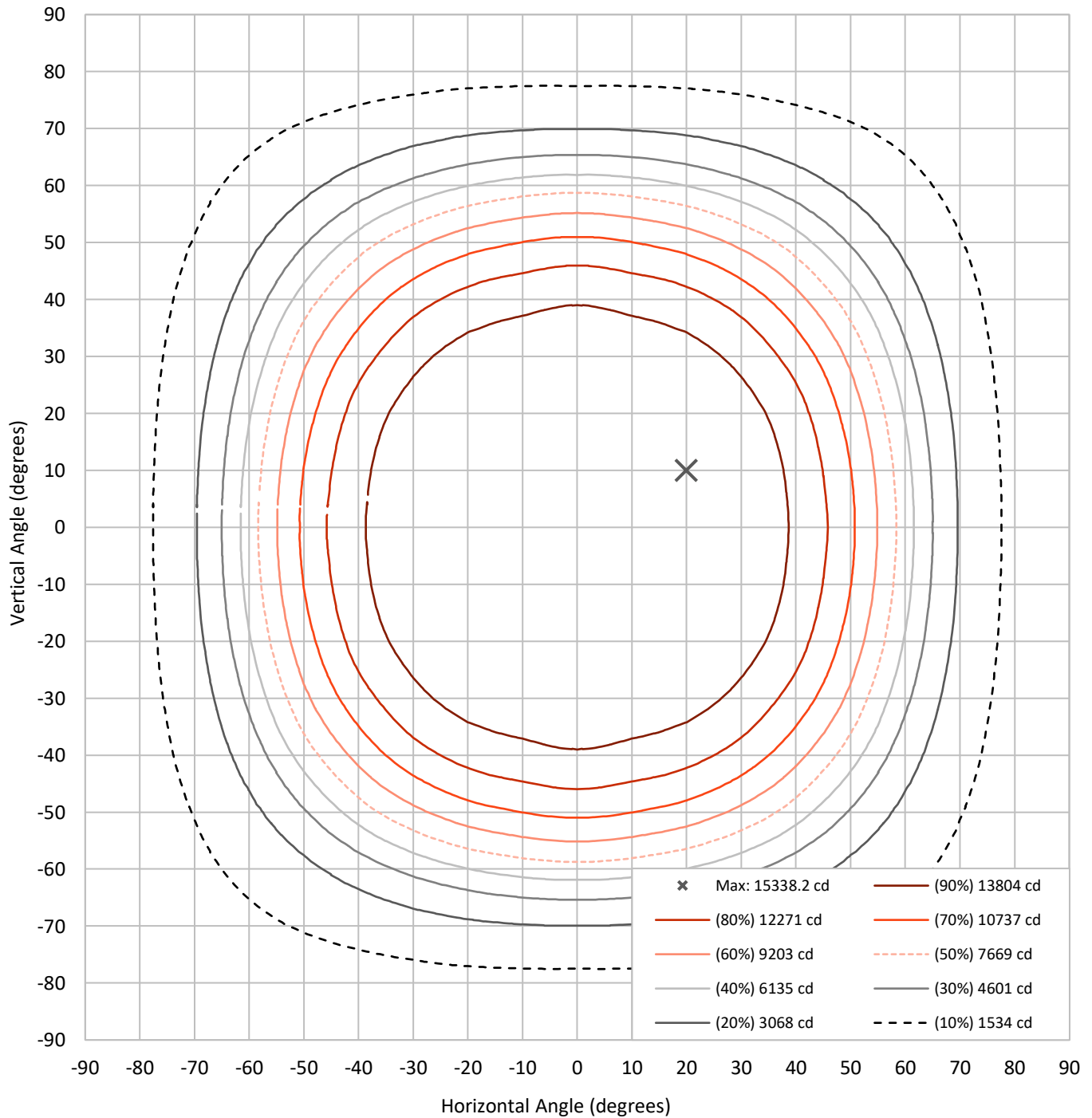
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	28874.3 lumens	Field Lumens:	34615.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



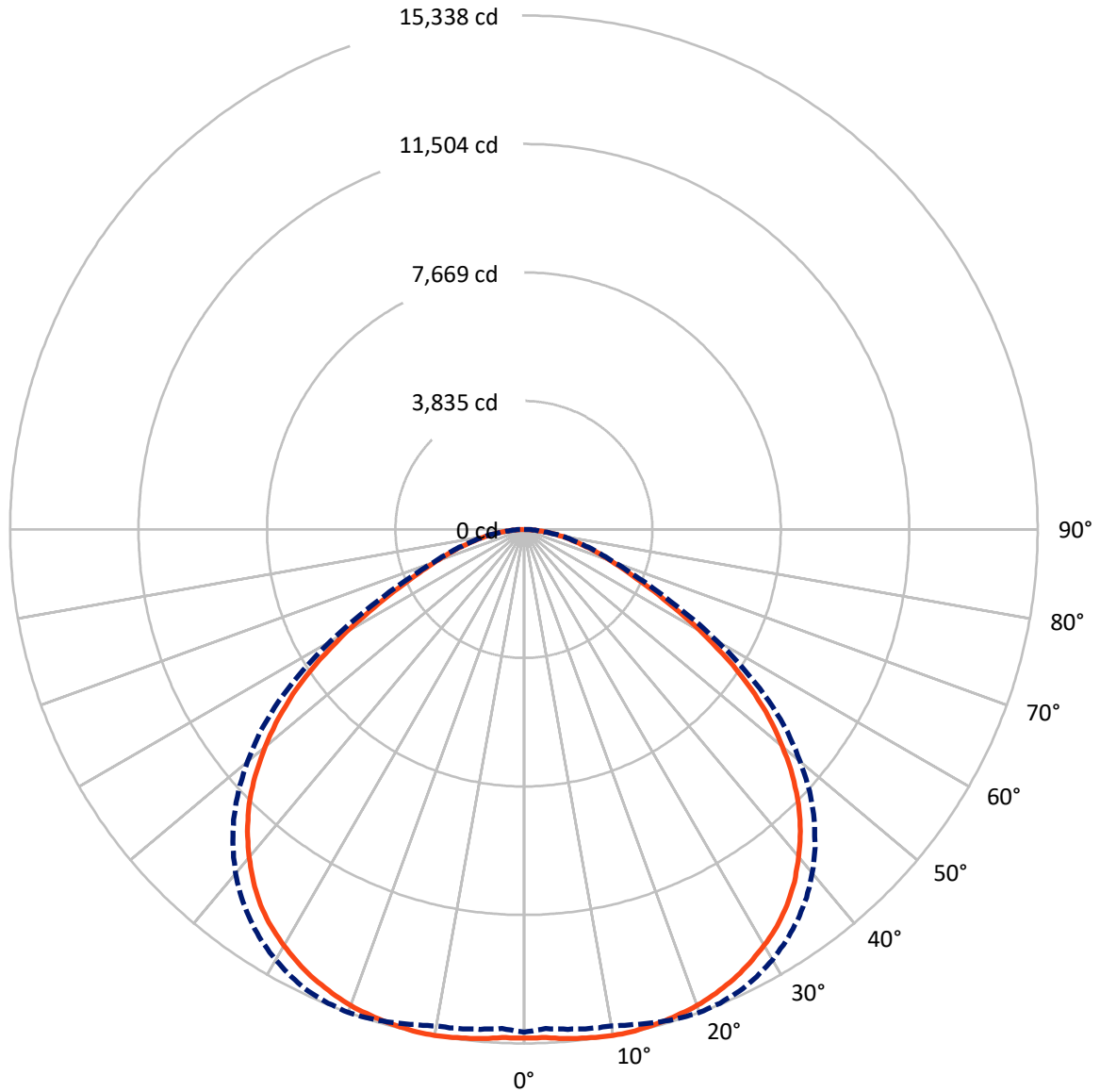
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Iso-Candela Plot



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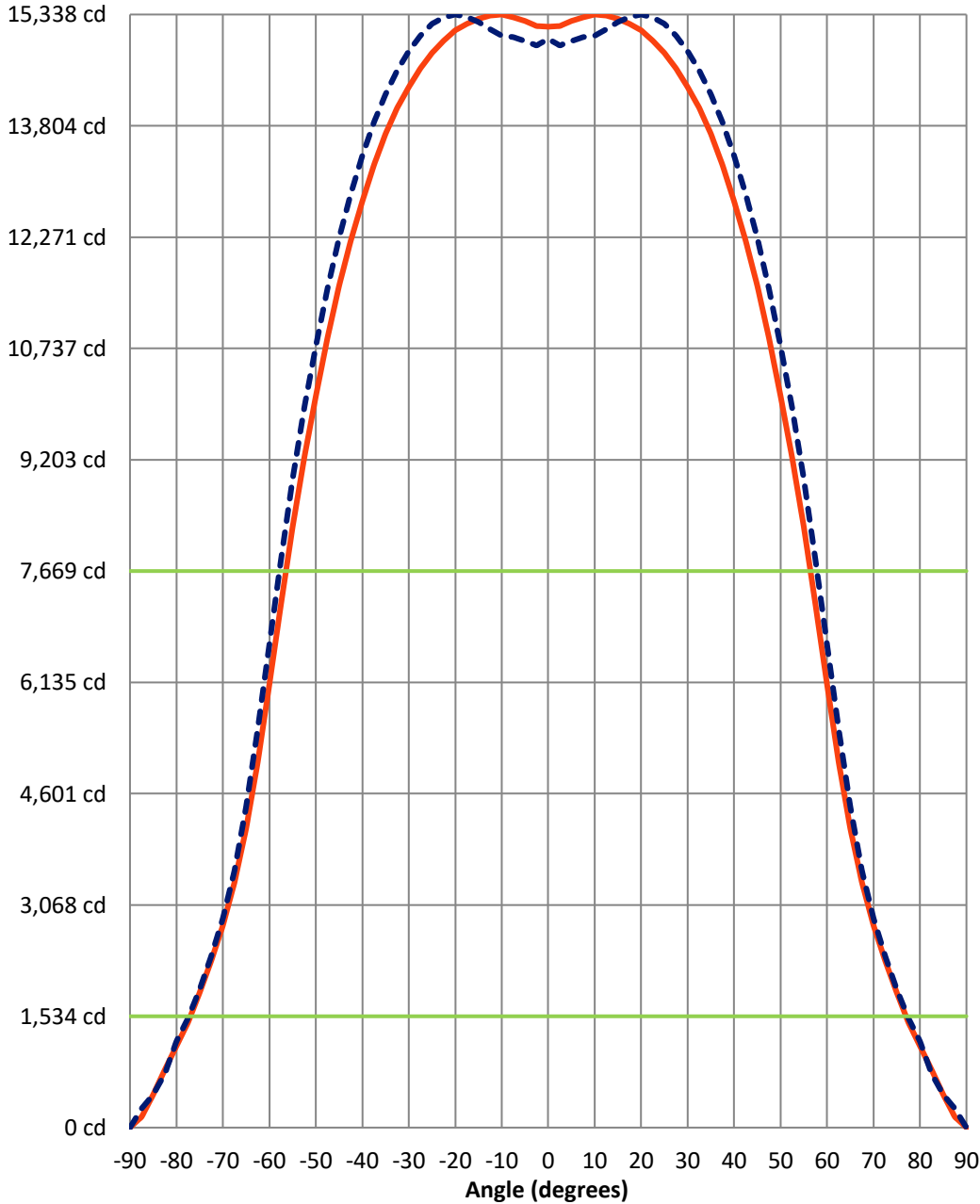
Luminous Intensity Polar Plot



— 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: 28874.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 34615.3
 Efficiency: 73.6%

Spill:
 Lumens: 12440.2
 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°	123.8	133.7	138.6	143.6	148.5	153.5	158.4	153.5	148.5	148.5	143.6
85°	331.7	341.6	346.6	381.2	415.9	435.7	460.4	455.5	455.5	450.5	445.6
82.5°	663.4	693.1	717.9	752.6	772.4	802.1	821.9	807.0	797.1	777.3	762.5
80°	1178.3	1188.2	1193.2	1198.1	1173.4	1168.4	1158.5	1143.7	1123.9	1099.1	1074.4
77.5°	1500.2	1510.1	1520.0	1510.1	1505.1	1500.2	1485.3	1470.4	1450.6	1430.8	1401.1
75°	1985.4	1985.4	1985.4	1970.5	1960.6	1945.7	1921.0	1896.2	1861.6	1822.0	1777.4
72.5°	2500.3	2495.3	2490.4	2460.7	2435.9	2406.2	2371.5	2341.8	2302.2	2257.7	2198.2
70°	3039.9	3049.8	3054.8	3015.2	2985.5	2945.9	2901.3	2846.8	2787.4	2723.1	2638.9
67.5°	3782.6	3772.7	3762.8	3708.3	3668.7	3614.2	3549.9	3470.7	3381.5	3282.5	3163.7
65°	4703.5	4718.3	4688.6	4634.1	4559.9	4470.8	4371.7	4257.9	4124.2	3975.7	3807.3
62.5°	5817.4	5842.2	5807.5	5738.2	5644.2	5525.3	5386.7	5223.3	5040.1	4832.2	4624.2
60°	7084.9	7079.9	7015.6	6921.5	6797.7	6649.2	6495.7	6317.5	6109.5	5866.9	5614.4
57.5°	8248.4	8238.5	8159.3	8065.2	7941.4	7783.0	7619.6	7431.5	7213.6	6956.2	6664.1
55°	9293.0	9283.1	9203.9	9104.9	8976.2	8817.7	8669.2	8491.0	8278.1	8005.8	7693.9
52.5°	10218.9	10223.8	10154.5	10045.6	9907.0	9753.5	9609.9	9431.7	9228.7	8956.4	8654.4
50°	11070.5	11065.5	10991.2	10892.2	10763.5	10615.0	10471.4	10293.1	10080.3	9817.9	9525.7
47.5°	11862.6	11852.7	11768.5	11659.6	11526.0	11397.2	11263.5	11105.1	10882.3	10619.9	10327.8
45°	12526.1	12506.3	12422.1	12318.1	12189.4	12075.5	11956.7	11837.9	11600.2	11357.6	11080.4
42.5°	13095.4	13090.5	13006.3	12902.3	12773.6	12674.6	12565.7	12417.1	12219.1	11996.3	11724.0
40°	13640.0	13600.4	13516.3	13417.2	13298.4	13214.2	13105.3	12956.8	12763.7	12545.9	12283.5
37.5°	14046.0	14051.0	13961.8	13852.9	13749.0	13669.7	13570.7	13432.1	13263.8	13050.9	12788.5
35°	14432.2	14407.4	14333.2	14239.1	14145.0	14055.9	13951.9	13833.1	13694.5	13496.5	13248.9
32.5°	14684.7	14719.4	14630.2	14531.2	14476.8	14407.4	14298.5	14174.7	14051.0	13852.9	13630.1
30°	14962.0	14932.2	14862.9	14778.8	14739.2	14694.6	14600.5	14481.7	14338.1	14159.9	13951.9
27.5°	15155.0	15140.2	15056.0	14976.8	14957.0	14917.4	14843.1	14739.2	14595.6	14422.3	14229.2
25°	15239.2	15249.1	15169.9	15125.3	15125.3	15100.6	15041.2	14952.0	14808.5	14650.0	14461.9
22.5°	15278.8	15268.9	15214.5	15204.6	15229.3	15209.5	15184.7	15105.5	14976.8	14848.1	14689.6
20°	15303.6	15234.3	15184.7	15224.4	15254.1	15249.1	15229.3	15179.8	15120.4	15011.5	14872.8
17.5°	15249.1	15204.6	15145.1	15204.6	15268.9	15273.9	15254.1	15224.4	15209.5	15140.2	15016.4
15°	15115.4	15080.8	15090.7	15150.1	15224.4	15249.1	15264.0	15298.6	15278.8	15224.4	15115.4
12.5°	15026.3	14981.8	15026.3	15085.7	15125.3	15140.2	15259.0	15323.4	15323.4	15273.9	15204.6
10°	15001.6	14912.4	14971.9	15026.3	15046.1	15135.2	15234.3	15303.6	15338.2	15298.6	15209.5
7.5°	14952.0	14892.6	14917.4	14942.1	15056.0	15120.4	15174.8	15249.1	15298.6	15293.7	15214.5
5°	14927.3	14853.0	14862.9	14966.9	15046.1	15090.7	15110.5	15174.8	15249.1	15264.0	15204.6
2.5°	14862.9	14828.3	14902.5	14912.4	14971.9	15006.5	15026.3	15085.7	15179.8	15214.5	15189.7
0°	14828.3	14778.8	14729.3	14768.9	14867.9	14942.1	14971.9	15061.0	15169.9	15204.6	15150.1



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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°	138.6	133.7	128.7	123.8	128.7	128.7	128.7	123.8	128.7	123.8	123.8
85°	430.7	410.9	396.1	376.3	356.5	341.6	321.8	302.0	297.1	292.1	282.2
82.5°	742.7	717.9	693.1	663.4	633.7	599.1	564.4	524.8	514.9	505.0	490.1
80°	1044.7	1010.0	975.3	940.7	911.0	876.3	836.7	792.2	762.5	737.7	708.0
77.5°	1361.5	1312.0	1262.5	1203.1	1168.4	1133.8	1094.2	1049.6	1005.1	965.4	920.9
75°	1723.0	1668.5	1619.0	1559.6	1495.2	1430.8	1366.5	1307.1	1242.7	1183.3	1123.9
72.5°	2124.0	2044.8	1965.6	1891.3	1812.1	1732.9	1648.7	1569.5	1490.3	1411.0	1326.9
70°	2544.8	2445.8	2346.8	2247.8	2143.8	2039.8	1940.8	1841.8	1742.8	1638.8	1544.7
67.5°	3039.9	2926.0	2797.3	2658.7	2505.2	2371.5	2242.8	2124.0	2005.2	1886.3	1767.5
65°	3658.8	3500.4	3327.1	3138.9	2960.7	2782.5	2594.3	2416.1	2277.5	2138.8	2005.2
62.5°	4421.3	4198.5	3955.9	3713.3	3495.4	3262.7	3044.9	2812.2	2594.3	2396.3	2232.9
60°	5332.2	5030.2	4733.2	4421.3	4119.2	3802.4	3525.1	3238.0	2965.7	2723.1	2485.4
57.5°	6337.3	5985.8	5629.3	5248.1	4837.1	4465.8	4089.5	3713.3	3391.4	3069.6	2802.3
55°	7357.2	6985.9	6584.8	6154.1	5703.6	5228.3	4718.3	4297.5	3856.8	3480.6	3134.0
52.5°	8327.6	7941.4	7525.5	7129.5	6589.8	6045.2	5485.7	4931.2	4416.3	3936.1	3515.2
50°	9194.0	8817.7	8416.7	7956.3	7456.2	6877.0	6253.1	5629.3	5020.3	4455.9	3931.1
47.5°	9986.2	9619.8	9218.8	8758.3	8302.8	7659.2	7030.4	6342.2	5664.0	5015.4	4401.4
45°	10728.8	10357.5	9941.6	9501.0	8976.2	8401.9	7753.3	7060.1	6332.3	5604.5	4896.5
42.5°	11402.2	11030.8	10610.0	10154.5	9634.7	9065.3	8436.5	7738.4	7005.7	6213.5	5436.2
40°	11991.3	11629.9	11223.9	10748.6	10263.4	9664.4	9045.5	8382.1	7624.6	6827.4	5970.9
37.5°	12506.3	12169.6	11768.5	11298.2	10783.3	10248.6	9609.9	8946.5	8263.2	7396.8	6520.5
35°	12961.7	12649.8	12238.9	11793.3	11288.3	10723.9	10124.8	9476.2	8738.5	7926.6	7075.0
32.5°	13357.8	13041.0	12664.7	12219.1	11728.9	11199.2	10585.3	9931.7	9233.6	8406.8	7481.0
30°	13694.5	13387.5	13031.1	12610.2	12139.9	11615.1	11016.0	10357.5	9644.6	8822.7	7906.8
27.5°	13986.6	13694.5	13347.9	12956.8	12506.3	12001.2	11397.2	10733.8	10006.0	9213.8	8297.9
25°	14239.1	13956.9	13635.1	13263.8	12818.2	12323.1	11753.7	11060.6	10332.8	9535.6	8629.6
22.5°	14466.9	14194.5	13872.7	13511.3	13105.3	12610.2	12035.9	11347.7	10610.0	9822.8	8931.6
20°	14669.8	14417.3	14100.5	13729.1	13323.2	12823.1	12253.7	11600.2	10857.6	10085.2	9203.9
17.5°	14833.2	14610.4	14293.6	13902.4	13496.5	13011.3	12456.7	11857.7	11070.5	10308.0	9431.7
15°	14947.1	14729.3	14442.1	14046.0	13649.9	13169.7	12615.2	11996.3	11263.5	10486.2	9619.8
12.5°	15026.3	14793.6	14526.3	14159.9	13763.8	13288.5	12748.8	12139.9	11426.9	10644.7	9783.2
10°	15046.1	14833.2	14565.9	14239.1	13852.9	13392.5	12862.7	12258.7	11560.6	10768.4	9916.9
7.5°	15056.0	14853.0	14610.4	14298.5	13917.3	13471.7	12946.9	12352.8	11659.6	10872.4	10015.9
5°	15051.1	14858.0	14640.1	14338.1	13956.9	13516.3	13001.4	12417.1	11728.9	10941.7	10090.2
2.5°	15036.2	14862.9	14659.9	14367.8	14001.5	13565.8	13055.8	12491.4	11803.2	11001.1	10149.6
0°	15075.8	14927.3	14669.8	14357.9	14011.4	13565.8	13050.9	12501.3	11813.1	10996.2	10144.6



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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°	123.8	118.8	118.8	113.9	108.9	104.0	94.1	89.1	79.2	64.4	49.5
85°	267.4	252.5	237.6	227.7	217.8	207.9	193.1	178.2	158.4	128.7	99.0
82.5°	470.3	440.6	410.9	376.3	346.6	316.9	292.1	267.4	237.6	193.1	148.5
80°	673.3	628.8	584.2	534.7	490.1	440.6	396.1	356.5	316.9	257.5	198.0
77.5°	876.3	816.9	752.6	693.1	628.8	564.4	500.1	445.6	386.2	316.9	247.6
75°	1064.5	995.2	935.7	851.6	772.4	688.2	604.0	529.8	455.5	371.3	297.1
72.5°	1252.6	1163.5	1079.3	1000.1	911.0	807.0	712.9	618.9	524.8	425.8	336.7
70°	1440.7	1331.8	1227.9	1133.8	1034.8	930.8	816.9	708.0	594.1	475.3	371.3
67.5°	1633.8	1510.1	1391.2	1272.4	1158.5	1039.7	920.9	797.1	663.4	524.8	410.9
65°	1846.7	1693.2	1549.7	1416.0	1282.3	1153.6	1019.9	886.2	737.7	579.3	445.6
62.5°	2059.6	1891.3	1723.0	1554.6	1406.1	1262.5	1118.9	970.4	807.0	638.7	480.2
60°	2287.4	2094.3	1901.2	1713.0	1529.9	1371.4	1213.0	1054.6	881.3	693.1	514.9
57.5°	2539.9	2307.2	2089.3	1876.4	1668.5	1480.4	1307.1	1138.7	945.6	747.6	554.5
55°	2827.0	2539.9	2282.4	2044.8	1817.0	1589.3	1401.1	1227.9	1019.9	802.1	599.1
52.5°	3129.0	2797.3	2485.4	2218.1	1975.5	1718.0	1490.3	1297.2	1094.2	856.5	638.7
50°	3480.6	3059.7	2713.2	2386.4	2114.1	1846.7	1584.3	1376.4	1168.4	920.9	678.3
47.5°	3842.0	3376.6	2940.9	2584.4	2262.6	1970.5	1693.2	1445.7	1237.8	980.3	717.9
45°	4262.8	3678.6	3198.4	2777.5	2406.2	2099.2	1802.2	1520.0	1297.2	1039.7	757.5
42.5°	4668.8	4035.1	3465.7	2990.4	2569.6	2223.0	1901.2	1599.2	1356.6	1099.1	792.2
40°	5149.1	4391.5	3723.2	3193.4	2733.0	2341.8	2000.2	1683.3	1411.0	1153.6	826.8
37.5°	5609.5	4753.0	4035.1	3416.2	2891.4	2460.7	2099.2	1762.6	1460.5	1208.0	871.4
35°	6065.0	5154.0	4332.1	3624.1	3054.8	2594.3	2198.2	1836.8	1510.1	1252.6	911.0
32.5°	6500.7	5530.3	4634.1	3856.8	3233.0	2718.1	2287.4	1906.1	1559.6	1292.2	950.6
30°	6906.7	5886.8	4931.2	4094.5	3396.4	2832.0	2371.5	1975.5	1619.0	1326.9	990.2
27.5°	7278.0	6233.3	5228.3	4317.3	3549.9	2935.9	2460.7	2039.8	1668.5	1361.5	1024.9
25°	7614.7	6545.2	5500.6	4520.3	3688.5	3049.8	2544.8	2104.2	1713.0	1391.2	1054.6
22.5°	7931.5	6832.4	5748.1	4723.3	3856.8	3163.7	2624.0	2163.6	1757.6	1420.9	1084.3
20°	8208.8	7094.8	5985.8	4926.3	4005.4	3267.7	2693.3	2218.1	1797.2	1440.7	1114.0
17.5°	8431.6	7327.5	6198.7	5104.5	4134.1	3356.8	2752.8	2267.6	1831.9	1465.5	1133.8
15°	8629.6	7525.5	6376.9	5258.0	4248.0	3431.0	2807.2	2307.2	1861.6	1480.4	1158.5
12.5°	8797.9	7693.9	6530.4	5391.6	4347.0	3495.4	2851.8	2336.9	1886.3	1495.2	1173.4
10°	8936.6	7827.5	6659.1	5495.6	4426.2	3544.9	2886.4	2366.6	1906.1	1510.1	1188.2
7.5°	9040.5	7926.6	6753.2	5584.7	4490.6	3579.6	2916.1	2386.4	1925.9	1520.0	1213.0
5°	9119.8	8010.7	6827.4	5644.2	4540.1	3629.1	2950.8	2411.1	1945.7	1529.9	1213.0
2.5°	9179.2	8080.0	6886.9	5693.7	4579.7	3619.2	2950.8	2406.2	1945.7	1529.9	1208.0
0°	9169.3	8085.0	6881.9	5693.7	4579.7	3609.3	2950.8	2401.2	1945.7	1529.9	1208.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	34.7	24.8	9.9	0.0
85°	74.3	49.5	24.8	0.0
82.5°	108.9	69.3	34.7	0.0
80°	143.6	94.1	44.6	0.0
77.5°	183.2	118.8	59.4	0.0
75°	217.8	138.6	69.3	0.0
72.5°	252.5	163.4	79.2	0.0
70°	282.2	183.2	89.1	0.0
67.5°	311.9	207.9	104.0	0.0
65°	336.7	227.7	113.9	0.0
62.5°	356.5	252.5	123.8	0.0
60°	381.2	272.3	133.7	0.0
57.5°	401.0	287.2	143.6	0.0
55°	420.8	297.1	153.5	0.0
52.5°	440.6	311.9	163.4	0.0
50°	460.4	326.8	173.3	0.0
47.5°	480.2	336.7	178.2	0.0
45°	510.0	351.5	188.1	0.0
42.5°	534.7	361.4	198.0	0.0
40°	559.5	371.3	203.0	0.0
37.5°	584.2	381.2	212.9	0.0
35°	609.0	391.1	217.8	0.0
32.5°	628.8	401.0	222.8	0.0
30°	648.6	410.9	227.7	0.0
27.5°	668.4	415.9	232.7	0.0
25°	683.2	425.8	237.6	0.0
22.5°	698.1	430.7	242.6	0.0
20°	708.0	435.7	247.6	0.0
17.5°	722.8	440.6	252.5	0.0
15°	727.8	445.6	262.4	0.0
12.5°	737.7	450.5	262.4	0.0
10°	742.7	455.5	262.4	0.0
7.5°	752.6	455.5	262.4	0.0
5°	747.6	455.5	262.4	0.0
2.5°	747.6	455.5	262.4	0.0
0°	742.7	455.5	262.4	0.0

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