

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: P628247

Luminaire Tested: **IFLD-S-SA6A-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628247
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

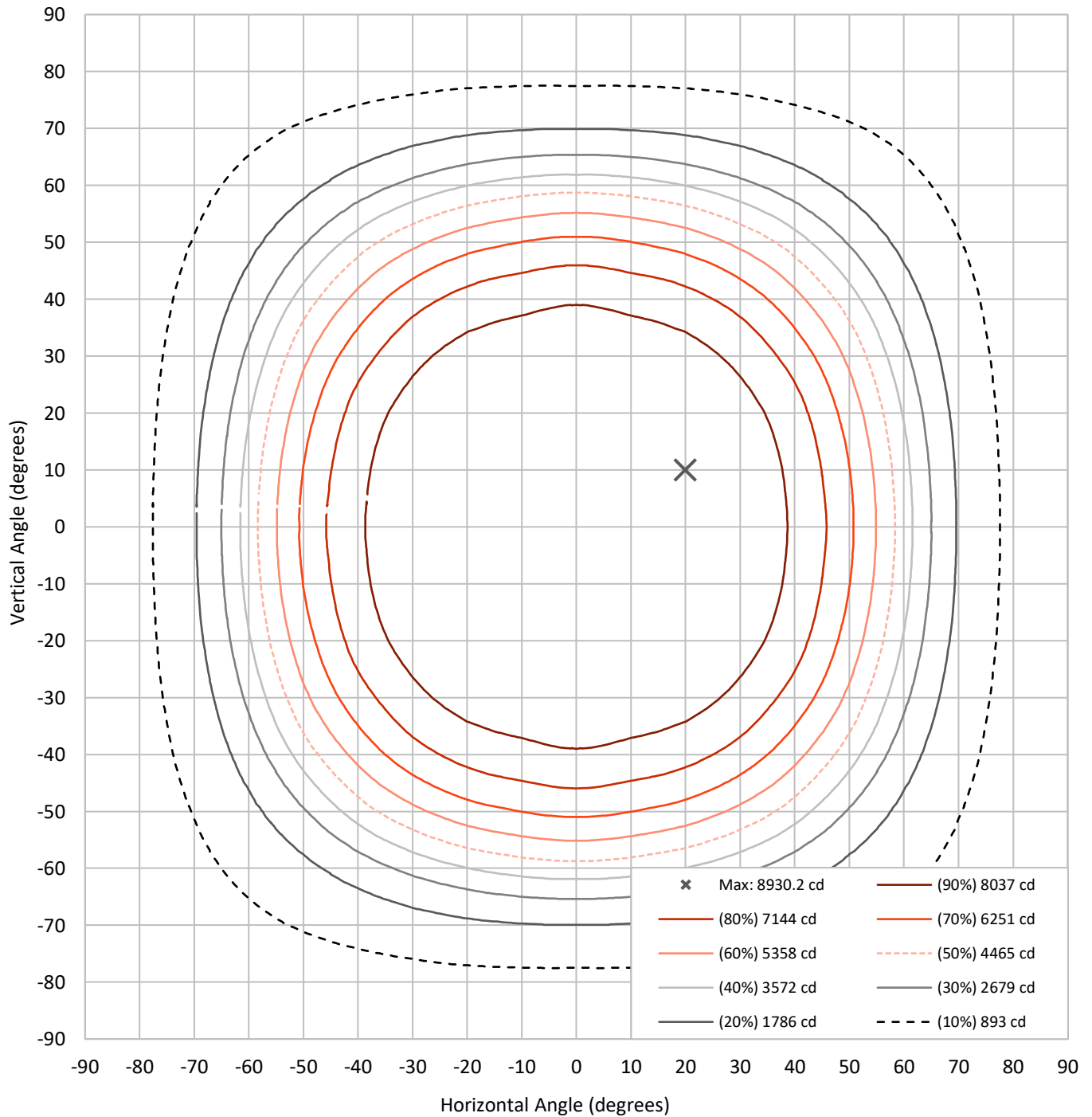
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27396.7 lumens	Max Intensity:	8930.2 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	144.5 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:	16811.2 lumens	Field Lumens:	20153.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	189.6		
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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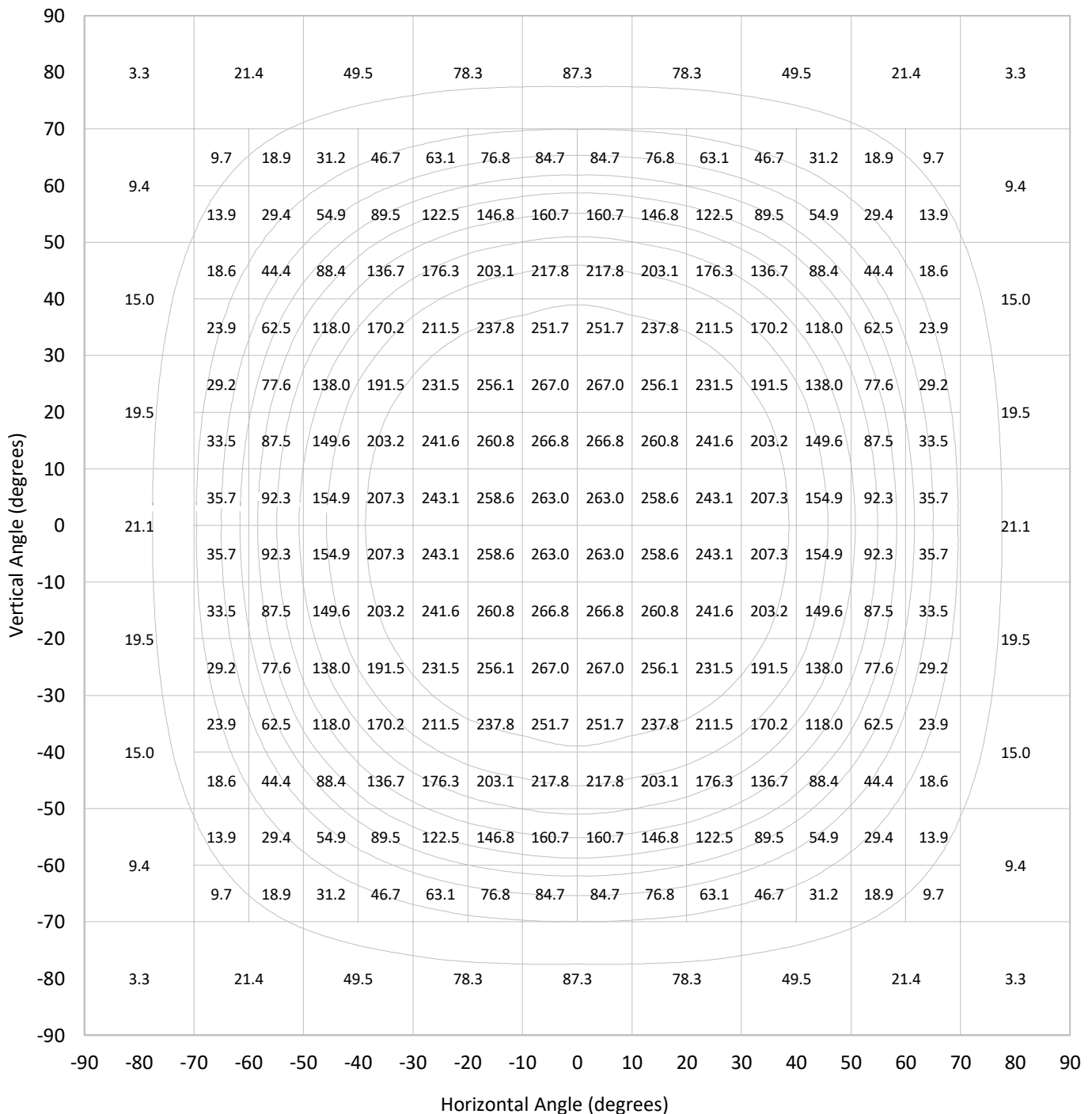
Iso-Candela Plot





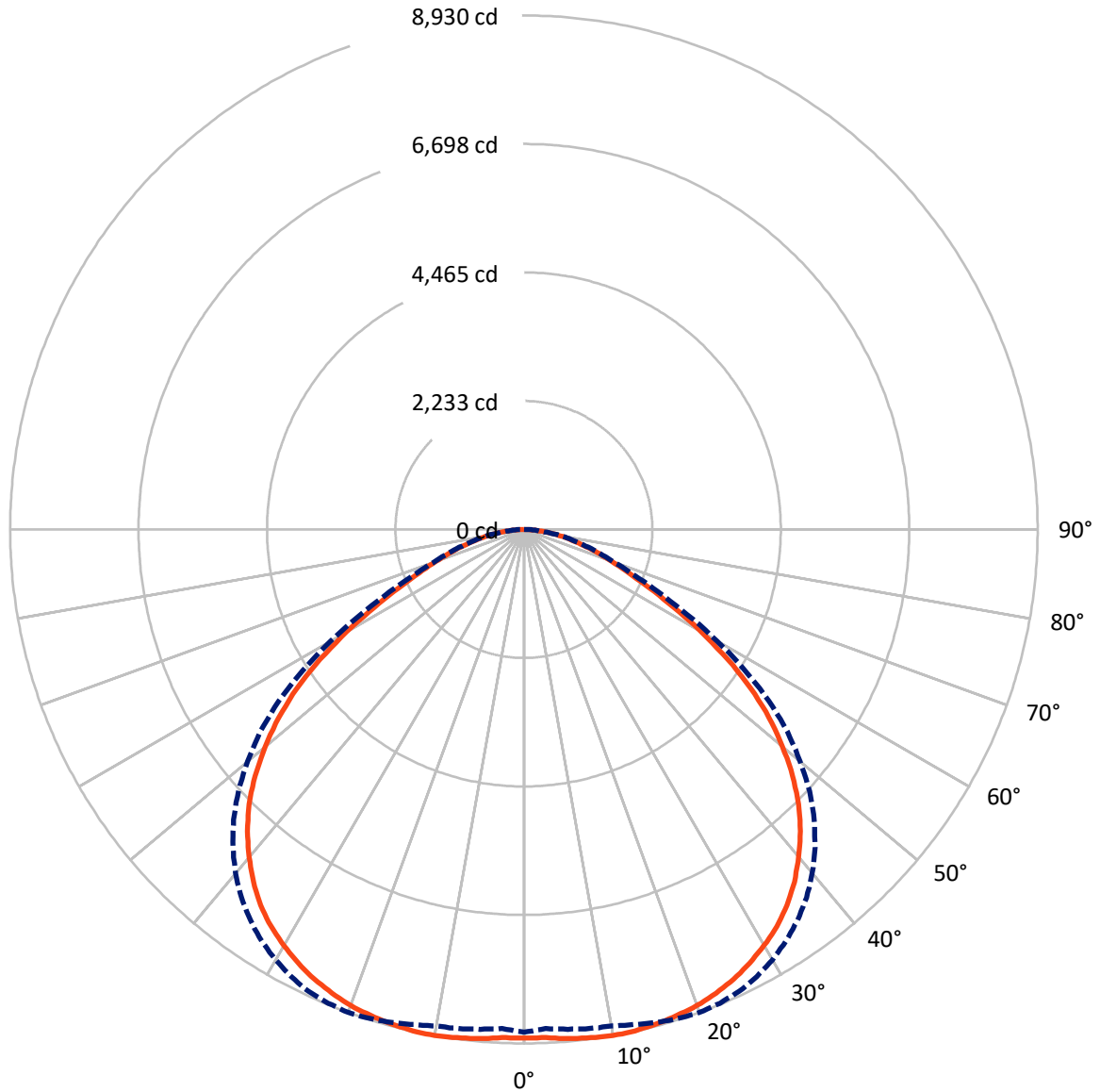
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Lumen Table



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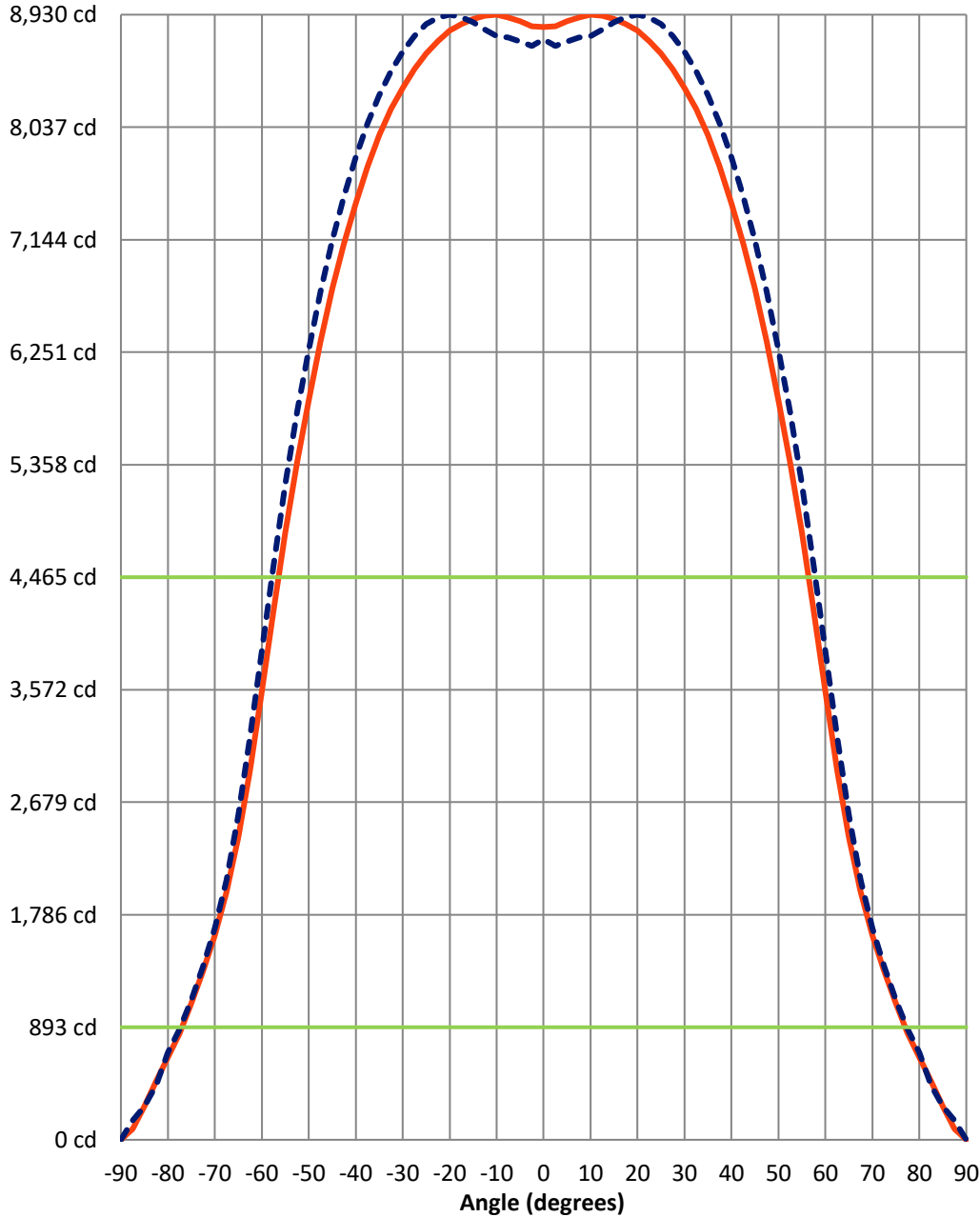
Luminous Intensity Polar Plot



— 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: 16811.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 20153.8
 Efficiency: 73.6%

Spill:
 Lumens: 7243
 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°	72.1	77.8	80.7	83.6	86.5	89.4	92.2	89.4	86.5	86.5	83.6
85°	193.1	198.9	201.8	222.0	242.1	253.7	268.1	265.2	262.3	262.3	259.4
82.5°	386.3	403.6	418.0	438.2	449.7	467.0	478.5	469.9	452.6	452.6	443.9
80°	686.1	691.8	694.7	697.6	683.2	680.3	674.5	665.9	639.9	639.9	625.5
77.5°	873.4	879.2	885.0	879.2	876.3	873.4	864.8	856.1	833.1	833.1	815.8
75°	1155.9	1155.9	1155.9	1147.3	1141.5	1132.9	1118.4	1104.0	1060.8	1060.8	1034.8
72.5°	1455.7	1452.8	1449.9	1432.6	1418.2	1400.9	1380.8	1363.5	1314.5	1314.5	1279.9
70°	1769.9	1775.7	1778.6	1755.5	1738.2	1715.1	1689.2	1657.5	1585.4	1585.4	1536.4
67.5°	2202.3	2196.5	2190.8	2159.1	2136.0	2104.3	2066.8	2020.7	1911.1	1911.1	1842.0
65°	2738.4	2747.1	2729.8	2698.1	2654.9	2603.0	2545.3	2479.0	2314.7	2314.7	2216.7
62.5°	3387.0	3401.4	3381.3	3340.9	3286.1	3217.0	3136.2	3041.1	2813.4	2813.4	2692.3
60°	4125.0	4122.1	4084.6	4029.8	3957.8	3871.3	3781.9	3678.2	3415.9	3415.9	3268.8
57.5°	4802.4	4796.6	4750.5	4695.7	4623.7	4531.4	4436.3	4326.7	4050.0	4050.0	3879.9
55°	5410.6	5404.8	5358.7	5301.1	5226.1	5133.9	5047.4	4943.6	4661.1	4661.1	4479.5
52.5°	5949.6	5952.5	5912.2	5848.8	5768.0	5678.7	5595.1	5491.3	5214.6	5214.6	5038.7
50°	6445.4	6442.6	6399.3	6341.7	6266.7	6180.2	6096.7	5992.9	5716.2	5716.2	5546.1
47.5°	6906.7	6900.9	6851.9	6788.5	6710.6	6635.7	6557.9	6465.6	6183.1	6183.1	6013.1
45°	7292.9	7281.4	7232.4	7171.9	7096.9	7030.6	6961.4	6892.2	6612.6	6612.6	6451.2
42.5°	7624.4	7621.5	7572.5	7512.0	7437.1	7379.4	7316.0	7229.5	6984.5	6984.5	6825.9
40°	7941.5	7918.4	7869.4	7811.8	7742.6	7693.6	7630.2	7543.7	7304.5	7304.5	7151.7
37.5°	8177.9	8180.8	8128.9	8065.5	8004.9	7958.8	7901.1	7820.4	7598.5	7598.5	7445.7
35°	8402.7	8388.3	8345.1	8290.3	8235.5	8183.6	8123.1	8053.9	7857.9	7857.9	7713.8
32.5°	8549.7	8569.9	8518.0	8460.4	8428.7	8388.3	8324.9	8252.8	8065.5	8065.5	7935.7
30°	8711.2	8693.9	8653.5	8604.5	8581.4	8555.5	8500.7	8431.5	8244.2	8244.2	8123.1
27.5°	8823.6	8814.9	8765.9	8719.8	8708.3	8685.2	8642.0	8581.4	8396.9	8396.9	8284.5
25°	8872.6	8878.3	8832.2	8806.3	8806.3	8791.9	8757.3	8705.4	8529.5	8529.5	8420.0
22.5°	8895.6	8889.9	8858.2	8852.4	8866.8	8855.3	8840.9	8794.7	8644.9	8644.9	8552.6
20°	8910.0	8869.7	8840.9	8863.9	8881.2	8878.3	8866.8	8838.0	8740.0	8740.0	8659.3
17.5°	8878.3	8852.4	8817.8	8852.4	8889.9	8892.8	8881.2	8863.9	8814.9	8814.9	8742.9
15°	8800.5	8780.3	8786.1	8820.7	8863.9	8878.3	8887.0	8907.2	8863.9	8863.9	8800.5
12.5°	8748.6	8722.7	8748.6	8783.2	8806.3	8814.9	8884.1	8921.6	8892.8	8892.8	8852.4
10°	8734.2	8682.3	8716.9	8748.6	8760.2	8812.0	8869.7	8910.0	8930.2	8907.2	8855.3
7.5°	8705.4	8670.8	8685.2	8699.6	8765.9	8803.4	8835.1	8878.3	8904.3	8904.3	8858.2
5°	8691.0	8647.7	8653.5	8714.0	8760.2	8786.1	8797.6	8835.1	8887.0	8887.0	8852.4
2.5°	8653.5	8633.3	8676.6	8682.3	8716.9	8737.1	8748.6	8783.2	8858.2	8858.2	8843.7
0°	8633.3	8604.5	8575.7	8598.7	8656.4	8699.6	8716.9	8768.8	8832.2	8832.2	8820.7



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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°	80.7	77.8	74.9	72.1	74.9	74.9	74.9	72.1	74.9	72.1	72.1
85°	250.8	239.3	230.6	219.1	207.5	198.9	187.4	175.8	173.0	170.1	164.3
82.5°	432.4	418.0	403.6	386.3	369.0	348.8	328.6	305.6	299.8	294.0	285.4
80°	608.2	588.0	567.9	547.7	530.4	510.2	487.2	461.2	443.9	429.5	412.2
77.5°	792.7	763.9	735.1	700.5	680.3	660.1	637.0	611.1	585.2	562.1	536.2
75°	1003.1	971.4	942.6	908.0	870.5	833.1	795.6	761.0	723.5	688.9	654.3
72.5°	1236.6	1190.5	1144.4	1101.1	1055.0	1008.9	959.9	913.8	867.7	821.5	772.5
70°	1481.6	1424.0	1366.3	1308.7	1248.2	1187.6	1130.0	1072.3	1014.7	954.1	899.4
67.5°	1769.9	1703.6	1628.7	1547.9	1458.6	1380.8	1305.8	1236.6	1167.4	1098.3	1029.1
65°	2130.2	2038.0	1937.1	1827.6	1723.8	1620.0	1510.5	1406.7	1326.0	1245.3	1167.4
62.5°	2574.1	2444.4	2303.2	2161.9	2035.1	1899.6	1772.8	1637.3	1510.5	1395.2	1300.0
60°	3104.5	2928.7	2755.7	2574.1	2398.3	2213.8	2052.4	1885.2	1726.7	1585.4	1447.1
57.5°	3689.7	3485.0	3277.5	3055.5	2816.3	2600.1	2381.0	2161.9	1974.6	1787.2	1631.5
55°	4283.5	4067.3	3833.8	3583.0	3320.7	3044.0	2747.1	2502.1	2245.5	2026.5	1824.7
52.5°	4848.5	4623.7	4381.5	4150.9	3836.7	3519.6	3193.9	2871.0	2571.3	2291.6	2046.6
50°	5352.9	5133.9	4900.4	4632.3	4341.2	4003.9	3640.7	3277.5	2922.9	2594.3	2288.8
47.5°	5814.2	5600.8	5367.4	5099.3	4834.1	4459.3	4093.3	3692.6	3297.7	2920.1	2562.6
45°	6246.5	6030.4	5788.2	5531.7	5226.1	4891.7	4514.1	4110.6	3686.8	3263.1	2850.9
42.5°	6638.6	6422.4	6177.4	5912.2	5609.5	5278.0	4911.9	4505.5	4078.8	3617.6	3165.1
40°	6981.6	6771.2	6534.8	6258.1	5975.6	5626.8	5266.5	4880.2	4439.2	3975.1	3476.4
37.5°	7281.4	7085.4	6851.9	6578.0	6278.3	5966.9	5595.1	5208.8	4811.0	4306.6	3796.4
35°	7546.6	7365.0	7125.7	6866.3	6572.3	6243.7	5894.9	5517.3	5087.8	4615.0	4119.2
32.5°	7777.2	7592.7	7373.6	7114.2	6828.8	6520.4	6163.0	5782.5	5376.0	4894.6	4355.6
30°	7973.2	7794.5	7586.9	7341.9	7068.1	6762.5	6413.7	6030.4	5615.3	5136.8	4603.5
27.5°	8143.3	7973.2	7771.4	7543.7	7281.4	6987.4	6635.7	6249.4	5825.7	5364.5	4831.2
25°	8290.3	8126.0	7938.6	7722.4	7463.0	7174.7	6843.2	6439.7	6015.9	5551.8	5024.3
22.5°	8422.9	8264.4	8077.0	7866.6	7630.2	7341.9	7007.5	6606.9	6177.4	5719.0	5200.2
20°	8541.1	8394.1	8209.6	7993.4	7757.0	7465.9	7134.4	6753.9	6321.5	5871.8	5358.7
17.5°	8636.2	8506.5	8322.0	8094.3	7857.9	7575.4	7252.6	6903.8	6445.4	6001.5	5491.3
15°	8702.5	8575.7	8408.5	8177.9	7947.3	7667.7	7344.8	6984.5	6557.9	6105.3	5600.8
12.5°	8748.6	8613.1	8457.5	8244.2	8013.6	7736.8	7422.6	7068.1	6653.0	6197.5	5696.0
10°	8760.2	8636.2	8480.5	8290.3	8065.5	7797.4	7488.9	7137.3	6730.8	6269.6	5773.8
7.5°	8765.9	8647.7	8506.5	8324.9	8102.9	7843.5	7537.9	7192.0	6788.5	6330.1	5831.5
5°	8763.0	8650.6	8523.8	8347.9	8126.0	7869.4	7569.6	7229.5	6828.8	6370.5	5874.7
2.5°	8754.4	8653.5	8535.3	8365.2	8151.9	7898.3	7601.4	7272.7	6872.1	6405.1	5909.3
0°	8777.4	8691.0	8541.1	8359.5	8157.7	7898.3	7598.5	7278.5	6877.8	6402.2	5906.4



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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°	72.1	69.2	69.2	66.3	63.4	60.5	54.8	51.9	46.1	37.5	28.8
85°	155.7	147.0	138.4	132.6	126.8	121.1	112.4	103.8	92.2	74.9	57.7
82.5°	273.8	256.5	239.3	219.1	201.8	184.5	170.1	155.7	138.4	112.4	86.5
80°	392.0	366.1	340.1	311.3	285.4	256.5	230.6	207.5	184.5	149.9	115.3
77.5°	510.2	475.6	438.2	403.6	366.1	328.6	291.1	259.4	224.8	184.5	144.1
75°	619.8	579.4	544.8	495.8	449.7	400.7	351.7	308.4	265.2	216.2	173.0
72.5°	729.3	677.4	628.4	582.3	530.4	469.9	415.1	360.3	305.6	247.9	196.0
70°	838.8	775.4	714.9	660.1	602.5	541.9	475.6	412.2	345.9	276.7	216.2
67.5°	951.3	879.2	810.0	740.8	674.5	605.3	536.2	464.1	386.3	305.6	239.3
65°	1075.2	985.8	902.2	824.4	746.6	671.6	593.8	516.0	429.5	337.3	259.4
62.5°	1199.2	1101.1	1003.1	905.1	818.7	735.1	651.5	565.0	469.9	371.9	279.6
60°	1331.8	1219.3	1106.9	997.4	890.7	798.5	706.2	614.0	513.1	403.6	299.8
57.5°	1478.8	1343.3	1216.4	1092.5	971.4	861.9	761.0	663.0	550.6	435.3	322.8
55°	1646.0	1478.8	1328.9	1190.5	1057.9	925.3	815.8	714.9	593.8	467.0	348.8
52.5°	1821.8	1628.7	1447.1	1291.4	1150.1	1000.3	867.7	755.2	637.0	498.7	371.9
50°	2026.5	1781.4	1579.7	1389.4	1230.9	1075.2	922.4	801.4	680.3	536.2	394.9
47.5°	2236.9	1965.9	1712.3	1504.7	1317.3	1147.3	985.8	841.7	720.6	570.8	418.0
45°	2481.9	2141.8	1862.1	1617.1	1400.9	1222.2	1049.3	885.0	755.2	605.3	441.0
42.5°	2718.3	2349.3	2017.8	1741.1	1496.1	1294.3	1106.9	931.1	789.8	639.9	461.2
40°	2997.9	2556.8	2167.7	1859.3	1591.2	1363.5	1164.6	980.1	821.5	671.6	481.4
37.5°	3266.0	2767.3	2349.3	1989.0	1683.4	1432.6	1222.2	1026.2	850.4	703.3	507.3
35°	3531.2	3000.8	2522.3	2110.0	1778.6	1510.5	1279.9	1069.4	879.2	729.3	530.4
32.5°	3784.8	3219.8	2698.1	2245.5	1882.3	1582.5	1331.8	1109.8	908.0	752.4	553.5
30°	4021.2	3427.4	2871.0	2383.9	1977.4	1648.8	1380.8	1150.1	942.6	772.5	576.5
27.5°	4237.4	3629.2	3044.0	2513.6	2066.8	1709.4	1432.6	1187.6	971.4	792.7	596.7
25°	4433.4	3810.8	3202.5	2631.8	2147.5	1775.7	1481.6	1225.1	997.4	810.0	614.0
22.5°	4617.9	3978.0	3346.7	2750.0	2245.5	1842.0	1527.8	1259.7	1023.3	827.3	631.3
20°	4779.3	4130.7	3485.0	2868.2	2332.0	1902.5	1568.1	1291.4	1046.4	838.8	648.6
17.5°	4909.0	4266.2	3609.0	2971.9	2407.0	1954.4	1602.7	1320.2	1066.6	853.2	660.1
15°	5024.3	4381.5	3712.8	3061.3	2473.3	1997.6	1634.4	1343.3	1083.8	861.9	674.5
12.5°	5122.3	4479.5	3802.1	3139.1	2530.9	2035.1	1660.4	1360.6	1098.3	870.5	683.2
10°	5203.1	4557.4	3877.1	3199.7	2577.0	2063.9	1680.5	1377.9	1109.8	879.2	691.8
7.5°	5263.6	4615.0	3931.8	3251.5	2614.5	2084.1	1697.8	1389.4	1121.3	885.0	706.2
5°	5309.7	4664.0	3975.1	3286.1	2643.3	2112.9	1718.0	1403.8	1132.9	890.7	706.2
2.5°	5344.3	4704.4	4009.7	3315.0	2666.4	2107.2	1718.0	1400.9	1132.9	890.7	703.3
0°	5338.5	4707.2	4006.8	3315.0	2666.4	2101.4	1718.0	1398.1	1132.9	890.7	703.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.2	14.4	5.8	0.0
85°	43.2	28.8	14.4	0.0
82.5°	63.4	40.4	20.2	0.0
80°	83.6	54.8	25.9	0.0
77.5°	106.7	69.2	34.6	0.0
75°	126.8	80.7	40.4	0.0
72.5°	147.0	95.1	46.1	0.0
70°	164.3	106.7	51.9	0.0
67.5°	181.6	121.1	60.5	0.0
65°	196.0	132.6	66.3	0.0
62.5°	207.5	147.0	72.1	0.0
60°	222.0	158.5	77.8	0.0
57.5°	233.5	167.2	83.6	0.0
55°	245.0	173.0	89.4	0.0
52.5°	256.5	181.6	95.1	0.0
50°	268.1	190.3	100.9	0.0
47.5°	279.6	196.0	103.8	0.0
45°	296.9	204.7	109.5	0.0
42.5°	311.3	210.4	115.3	0.0
40°	325.7	216.2	118.2	0.0
37.5°	340.1	222.0	124.0	0.0
35°	354.6	227.7	126.8	0.0
32.5°	366.1	233.5	129.7	0.0
30°	377.6	239.3	132.6	0.0
27.5°	389.1	242.1	135.5	0.0
25°	397.8	247.9	138.4	0.0
22.5°	406.4	250.8	141.2	0.0
20°	412.2	253.7	144.1	0.0
17.5°	420.9	256.5	147.0	0.0
15°	423.7	259.4	152.8	0.0
12.5°	429.5	262.3	152.8	0.0
10°	432.4	265.2	152.8	0.0
7.5°	438.2	265.2	152.8	0.0
5°	435.3	265.2	152.8	0.0
2.5°	435.3	265.2	152.8	0.0
0°	432.4	265.2	152.8	0.0

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