

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: P628289

Luminaire Tested: **IFLD-L-SA7D-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628289
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	50202 lumens	Max Intensity:	16363.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	118.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

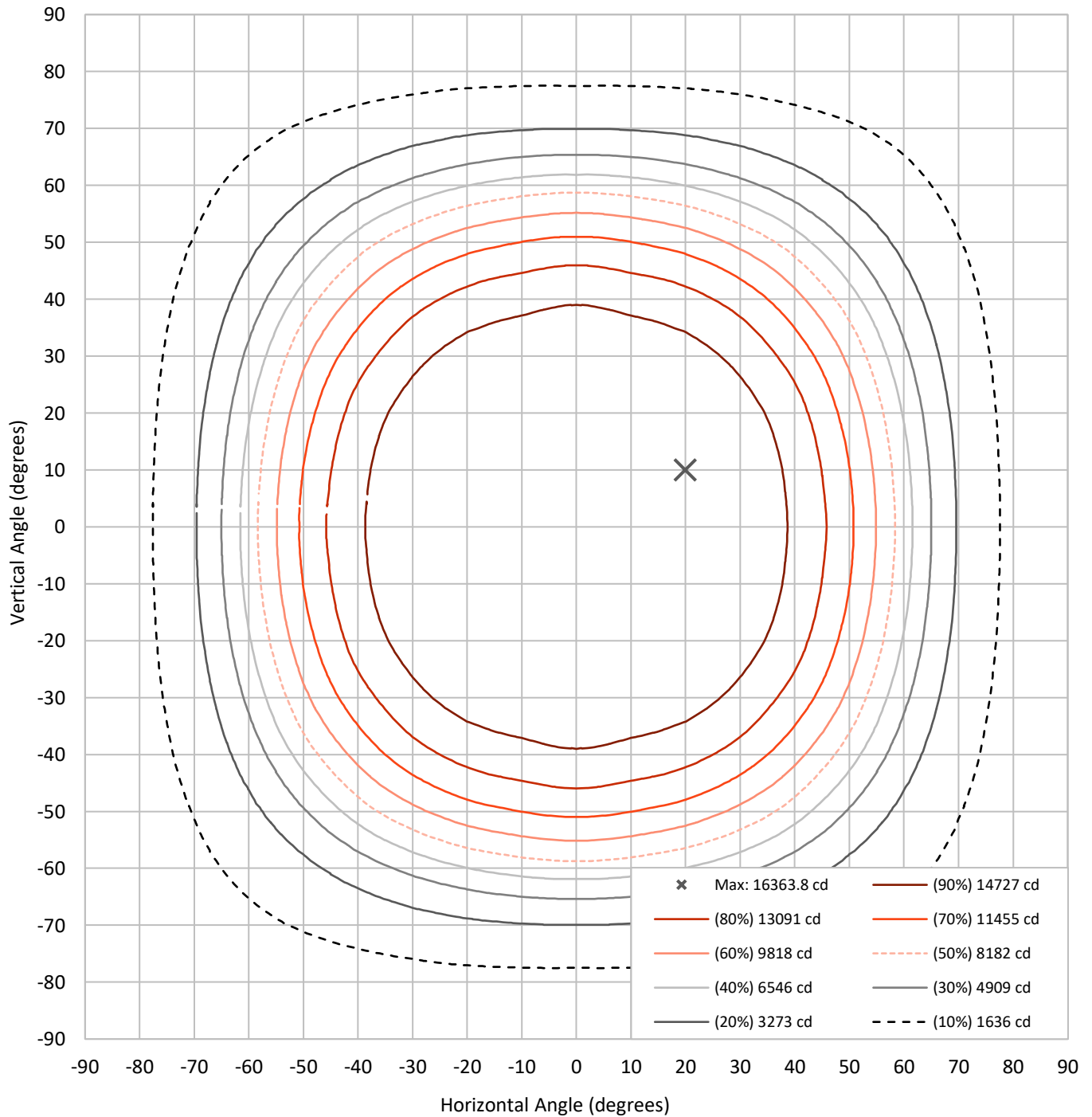
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	30805 lumens	Field Lumens:	36929.9 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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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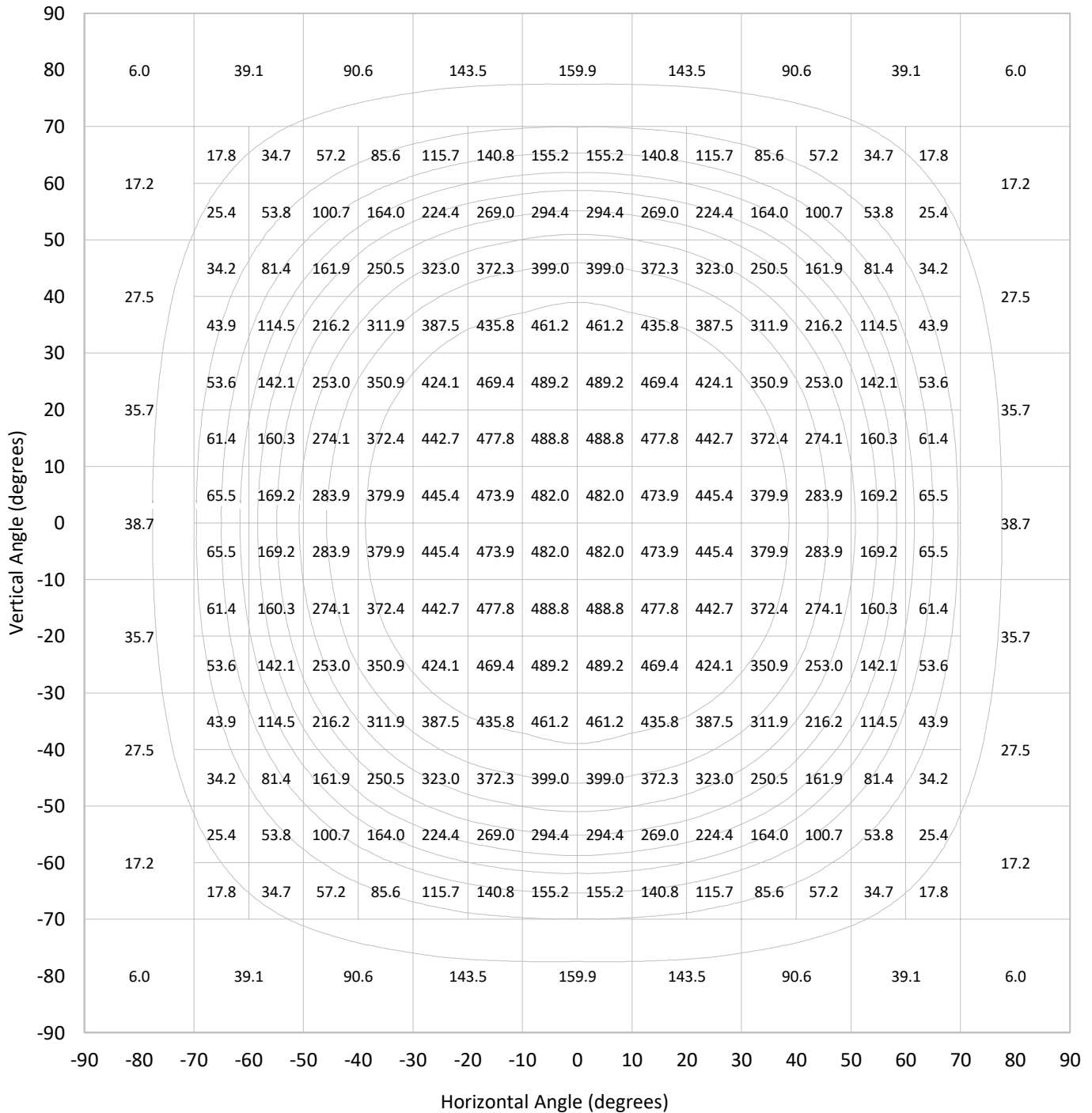
Iso-Candela Plot





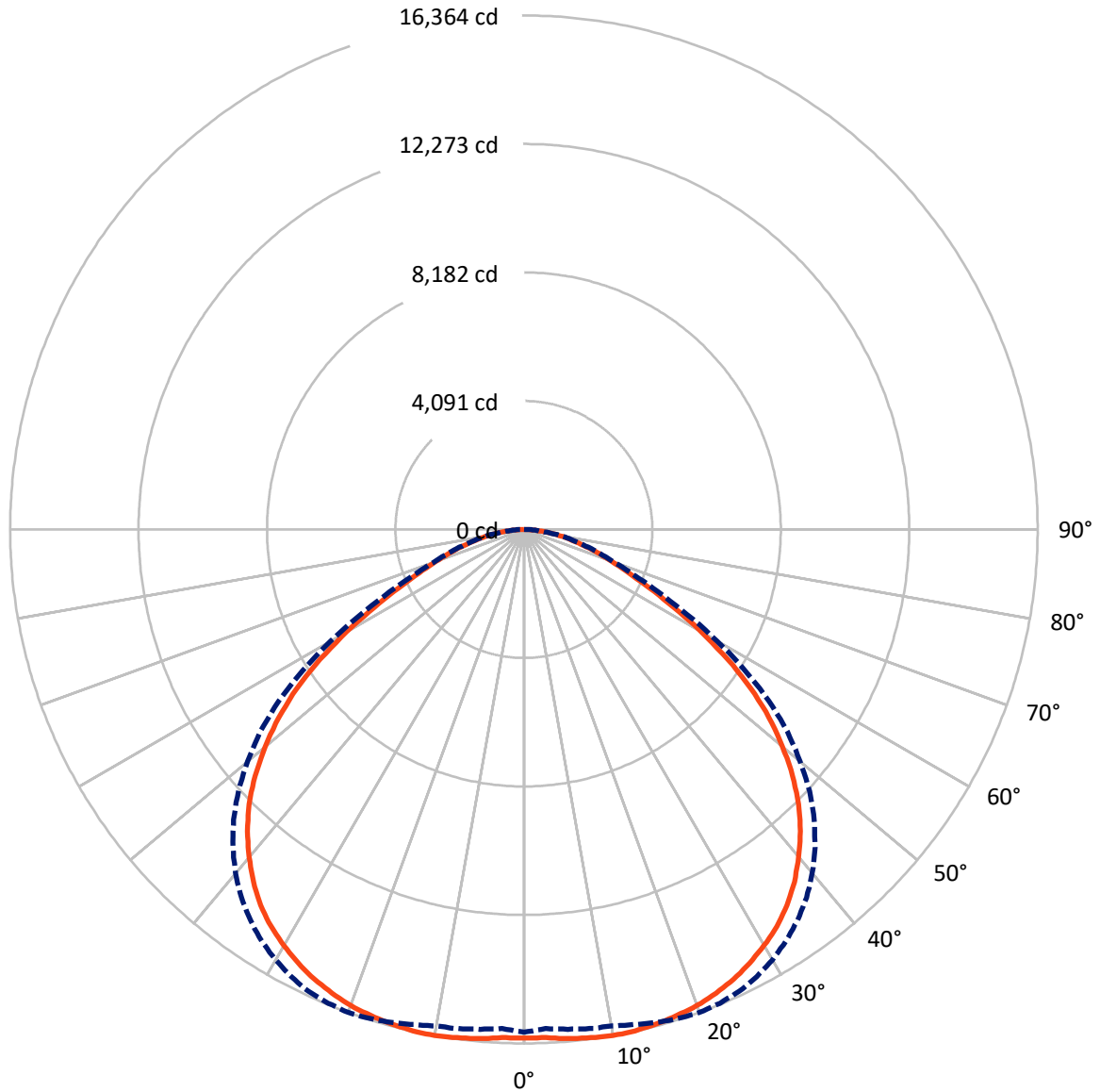
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Lumen Table



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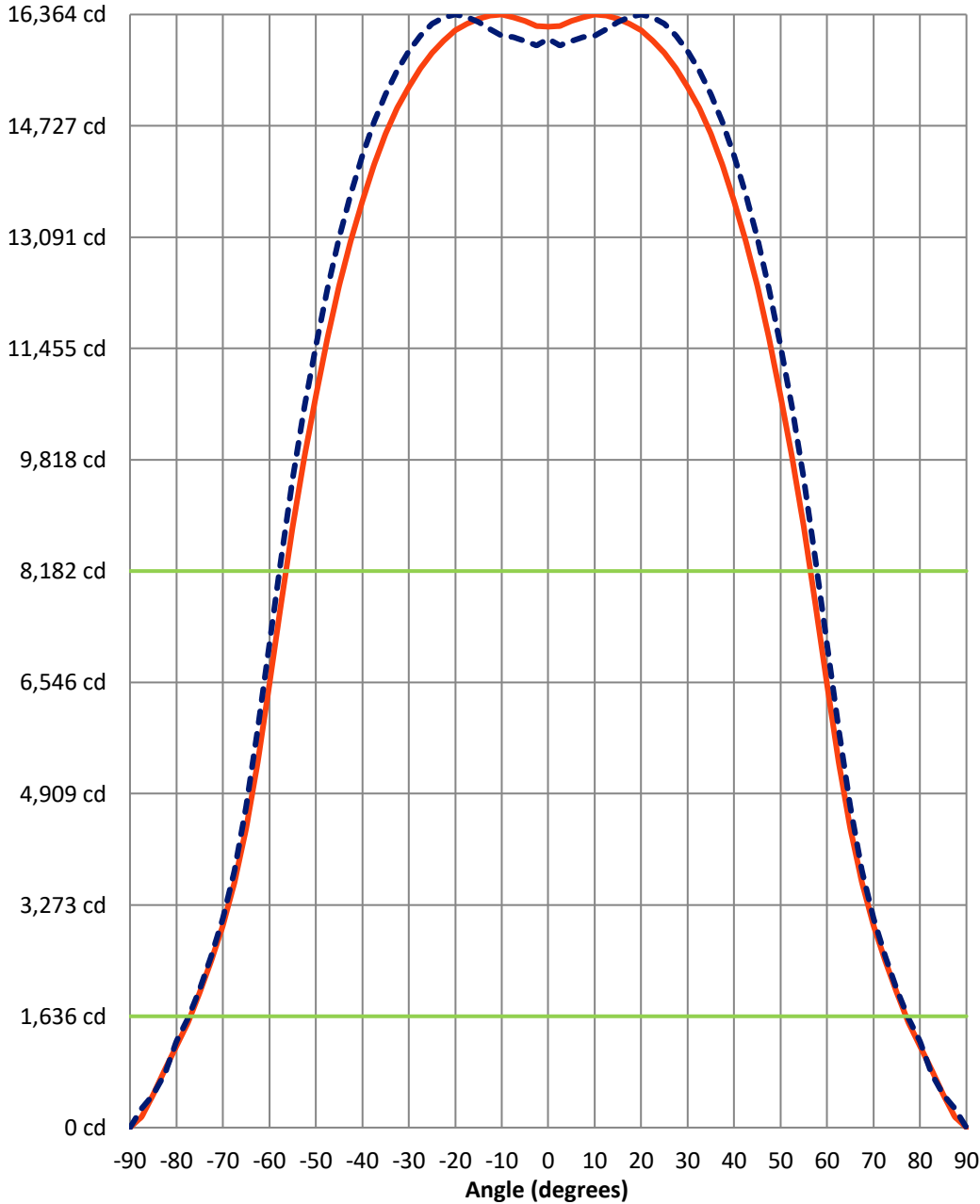
Luminous Intensity Polar Plot



— 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: 30805
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 36929.9
 Efficiency: 73.6%

Spill:
 Lumens: 13272.1
 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°	132.1	142.6	147.9	153.2	158.5	163.7	169.0	163.7	158.5	158.5	153.2
85°	353.9	364.5	369.7	406.7	443.7	464.8	491.2	485.9	485.9	480.7	475.4
82.5°	707.8	739.5	765.9	802.9	824.0	855.7	876.8	861.0	850.4	829.3	813.4
80°	1257.1	1267.7	1273.0	1278.3	1251.8	1246.6	1236.0	1220.2	1199.0	1172.6	1146.2
77.5°	1600.5	1611.0	1621.6	1611.0	1605.7	1600.5	1584.6	1568.8	1547.6	1526.5	1494.8
75°	2118.1	2118.1	2118.1	2102.3	2091.7	2075.9	2049.4	2023.0	1986.1	1943.8	1896.3
72.5°	2667.4	2662.2	2656.9	2625.2	2598.8	2567.1	2530.1	2498.4	2456.2	2408.6	2345.2
70°	3243.2	3253.8	3259.0	3216.8	3185.1	3142.8	3095.3	3037.2	2973.8	2905.1	2815.3
67.5°	4035.5	4024.9	4014.4	3956.3	3914.0	3855.9	3787.2	3702.7	3607.6	3502.0	3375.2
65°	5018.0	5033.8	5002.1	4944.0	4864.8	4769.7	4664.1	4542.6	4400.0	4241.5	4061.9
62.5°	6206.4	6232.8	6195.9	6121.9	6021.6	5894.8	5746.9	5572.6	5377.1	5155.3	4933.4
60°	7558.6	7553.4	7484.7	7384.3	7252.3	7093.8	6930.1	6739.9	6518.1	6259.2	5989.9
57.5°	8799.9	8789.4	8704.8	8604.5	8472.4	8303.4	8129.1	7928.4	7696.0	7421.3	7109.7
55°	9914.4	9903.9	9819.4	9713.7	9576.4	9407.4	9248.9	9058.7	8831.6	8541.1	8208.3
52.5°	10902.2	10907.5	10833.5	10717.3	10569.4	10405.7	10252.5	10062.3	9845.8	9555.3	9233.0
50°	11810.7	11805.4	11726.2	11620.5	11483.2	11324.7	11171.6	10981.4	10754.3	10474.3	10162.7
47.5°	12655.8	12645.3	12555.5	12439.3	12296.6	12159.3	12016.7	11847.7	11610.0	11330.0	11018.4
45°	13363.6	13342.5	13252.7	13141.8	13004.4	12883.0	12756.2	12629.4	12375.9	12117.1	11821.3
42.5°	13971.1	13965.8	13876.0	13765.1	13627.7	13522.1	13405.9	13247.4	13036.1	12798.4	12507.9
40°	14552.1	14509.8	14420.0	14314.4	14187.6	14097.8	13981.6	13823.2	13617.2	13384.7	13104.8
37.5°	14985.2	14990.5	14895.4	14779.2	14668.3	14583.8	14478.1	14330.2	14150.6	13923.5	13643.6
35°	15397.2	15370.8	15291.6	15191.2	15090.9	14995.8	14884.9	14758.1	14610.2	14398.9	14134.8
32.5°	15666.6	15703.6	15608.5	15502.9	15444.8	15370.8	15254.6	15122.5	14990.5	14779.2	14541.5
30°	15962.4	15930.7	15856.8	15767.0	15724.7	15677.2	15576.8	15450.0	15296.9	15106.7	14884.9
27.5°	16168.4	16152.6	16062.8	15978.2	15957.1	15914.9	15835.6	15724.7	15571.5	15386.7	15180.7
25°	16258.2	16268.8	16184.2	16136.7	16136.7	16110.3	16046.9	15951.8	15798.7	15629.6	15428.9
22.5°	16300.4	16289.9	16231.8	16221.2	16247.6	16226.5	16200.1	16115.6	15978.2	15840.9	15671.9
20°	16326.9	16252.9	16200.1	16242.3	16274.0	16268.8	16247.6	16194.8	16131.4	16015.2	15867.3
17.5°	16268.8	16221.2	16157.8	16221.2	16289.9	16295.2	16274.0	16242.3	16226.5	16152.6	16020.5
15°	16126.1	16089.2	16099.7	16163.1	16242.3	16268.8	16284.6	16321.6	16300.4	16242.3	16126.1
12.5°	16031.1	15983.5	16031.1	16094.4	16136.7	16152.6	16279.3	16348.0	16348.0	16295.2	16221.2
10°	16004.7	15909.6	15973.0	16031.1	16052.2	16147.3	16252.9	16326.9	16363.8	16321.6	16226.5
7.5°	15951.8	15888.4	15914.9	15941.3	16062.8	16131.4	16189.5	16268.8	16321.6	16316.3	16231.8
5°	15925.4	15846.2	15856.8	15967.7	16052.2	16099.7	16120.9	16189.5	16268.8	16284.6	16221.2
2.5°	15856.8	15819.8	15899.0	15909.6	15973.0	16009.9	16031.1	16094.4	16194.8	16231.8	16205.4
0°	15819.8	15767.0	15714.1	15756.4	15862.0	15941.3	15973.0	16068.0	16184.2	16221.2	16163.1



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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°	147.9	142.6	137.3	132.1	137.3	137.3	137.3	132.1	137.3	132.1	132.1
85°	459.5	438.4	422.6	401.4	380.3	364.5	343.3	322.2	316.9	311.6	301.1
82.5°	792.3	765.9	739.5	707.8	676.1	639.1	602.2	559.9	549.3	538.8	522.9
80°	1114.5	1077.5	1040.6	1003.6	971.9	934.9	892.7	845.1	813.4	787.0	755.3
77.5°	1452.6	1399.7	1346.9	1283.5	1246.6	1209.6	1167.3	1119.8	1072.3	1030.0	982.5
75°	1838.2	1780.1	1727.2	1663.9	1595.2	1526.5	1457.8	1394.5	1325.8	1262.4	1199.0
72.5°	2266.0	2181.5	2097.0	2017.7	1933.2	1848.7	1758.9	1674.4	1589.9	1505.4	1415.6
70°	2715.0	2609.3	2503.7	2398.1	2287.1	2176.2	2070.6	1964.9	1859.3	1748.4	1648.0
67.5°	3243.2	3121.7	2984.4	2836.5	2672.7	2530.1	2392.8	2266.0	2139.2	2012.5	1885.7
65°	3903.4	3734.4	3549.5	3348.8	3158.7	2968.5	2767.8	2577.6	2429.7	2281.9	2139.2
62.5°	4716.9	4479.2	4220.4	3961.5	3729.1	3480.9	3248.5	3000.2	2767.8	2556.5	2382.2
60°	5688.8	5366.6	5049.7	4716.9	4394.7	4056.6	3760.8	3454.5	3164.0	2905.1	2651.6
57.5°	6761.0	6386.0	6005.7	5599.0	5160.6	4764.4	4363.0	3961.5	3618.2	3274.9	2989.6
55°	7849.1	7453.0	7025.1	6565.6	6084.9	5577.9	5033.8	4584.8	4114.7	3713.3	3343.5
52.5°	8884.4	8472.4	8028.7	7606.2	7030.4	6449.4	5852.5	5260.9	4711.6	4199.2	3750.3
50°	9808.8	9407.4	8979.5	8488.3	7954.8	7336.8	6671.2	6005.7	5356.0	4753.9	4194.0
47.5°	10653.9	10263.0	9835.2	9344.0	8858.0	8171.4	7500.5	6766.3	6042.7	5350.7	4695.8
45°	11446.2	11050.1	10606.4	10136.3	9576.4	8963.7	8271.7	7532.2	6755.8	5979.3	5224.0
42.5°	12164.6	11768.4	11319.5	10833.5	10278.9	9671.5	9000.6	8255.9	7474.1	6629.0	5799.7
40°	12793.2	12407.6	11974.4	11467.4	10949.7	10310.6	9650.3	8942.5	8134.4	7284.0	6370.2
37.5°	13342.5	12983.3	12555.5	12053.7	11504.3	10933.9	10252.5	9544.7	8815.8	7891.4	6956.5
35°	13828.4	13495.7	13057.3	12581.9	12043.1	11440.9	10801.8	10109.9	9322.8	8456.6	7548.1
32.5°	14251.0	13913.0	13511.5	13036.1	12513.2	11948.0	11293.1	10595.8	9851.0	8968.9	7981.2
30°	14610.2	14282.7	13902.4	13453.4	12951.6	12391.7	11752.6	11050.1	10289.5	9412.6	8435.5
27.5°	14921.8	14610.2	14240.4	13823.2	13342.5	12803.7	12159.3	11451.5	10675.1	9829.9	8852.7
25°	15191.2	14890.1	14546.8	14150.6	13675.3	13147.1	12539.6	11800.1	11023.7	10173.3	9206.6
22.5°	15434.2	15143.7	14800.3	14414.8	13981.6	13453.4	12840.7	12106.5	11319.5	10479.6	9528.8
20°	15650.8	15381.4	15043.3	14647.2	14214.0	13680.5	13073.1	12375.9	11583.6	10759.6	9819.4
17.5°	15825.1	15587.4	15249.3	14832.0	14398.9	13881.3	13289.7	12650.5	11810.7	10997.3	10062.3
15°	15946.5	15714.1	15407.8	14985.2	14562.6	14050.3	13458.7	12798.4	12016.7	11187.4	10263.0
12.5°	16031.1	15782.8	15497.6	15106.7	14684.1	14177.1	13601.3	12951.6	12191.0	11356.4	10437.4
10°	16052.2	15825.1	15539.8	15191.2	14779.2	14288.0	13722.8	13078.4	12333.6	11488.5	10580.0
7.5°	16062.8	15846.2	15587.4	15254.6	14847.9	14372.5	13812.6	13178.7	12439.3	11599.4	10685.6
5°	16057.5	15851.5	15619.1	15296.9	14890.1	14420.0	13870.7	13247.4	12513.2	11673.4	10764.8
2.5°	16041.6	15856.8	15640.2	15328.5	14937.7	14472.9	13928.8	13326.6	12592.4	11736.7	10828.2
0°	16083.9	15925.4	15650.8	15318.0	14948.2	14472.9	13923.5	13337.2	12603.0	11731.5	10822.9



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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°	132.1	126.8	126.8	121.5	116.2	110.9	100.4	95.1	84.5	68.7	52.8
85°	285.2	269.4	253.5	243.0	232.4	221.8	206.0	190.2	169.0	137.3	105.6
82.5°	501.8	470.1	438.4	401.4	369.7	338.1	311.6	285.2	253.5	206.0	158.5
80°	718.4	670.8	623.3	570.5	522.9	470.1	422.6	380.3	338.1	274.7	211.3
77.5°	934.9	871.5	802.9	739.5	670.8	602.2	533.5	475.4	412.0	338.1	264.1
75°	1135.6	1061.7	998.3	908.5	824.0	734.2	644.4	565.2	485.9	396.2	316.9
72.5°	1336.4	1241.3	1151.5	1067.0	971.9	861.0	760.6	660.3	559.9	454.3	359.2
70°	1537.1	1420.9	1310.0	1209.6	1104.0	993.0	871.5	755.3	633.8	507.1	396.2
67.5°	1743.1	1611.0	1484.3	1357.5	1236.0	1109.2	982.5	850.4	707.8	559.9	438.4
65°	1970.2	1806.5	1653.3	1510.7	1368.1	1230.7	1088.1	945.5	787.0	618.0	475.4
62.5°	2197.3	2017.7	1838.2	1658.6	1500.1	1346.9	1193.7	1035.3	861.0	681.4	512.4
60°	2440.3	2234.3	2028.3	1827.6	1632.2	1463.1	1294.1	1125.1	940.2	739.5	549.3
57.5°	2709.7	2461.4	2229.0	2001.9	1780.1	1579.3	1394.5	1214.9	1008.9	797.6	591.6
55°	3016.1	2709.7	2435.0	2181.5	1938.5	1695.5	1494.8	1310.0	1088.1	855.7	639.1
52.5°	3338.3	2984.4	2651.6	2366.4	2107.5	1832.9	1589.9	1383.9	1167.3	913.8	681.4
50°	3713.3	3264.3	2894.6	2546.0	2255.4	1970.2	1690.3	1468.4	1246.6	982.5	723.6
47.5°	4098.9	3602.4	3137.5	2757.2	2413.9	2102.3	1806.5	1542.4	1320.5	1045.8	765.9
45°	4547.9	3924.6	3412.2	2963.2	2567.1	2239.6	1922.7	1621.6	1383.9	1109.2	808.2
42.5°	4981.0	4304.9	3697.4	3190.4	2741.4	2371.6	2028.3	1706.1	1447.3	1172.6	845.1
40°	5493.3	4685.2	3972.1	3406.9	2915.7	2498.4	2134.0	1795.9	1505.4	1230.7	882.1
37.5°	5984.6	5070.8	4304.9	3644.6	3084.7	2625.2	2239.6	1880.4	1558.2	1288.8	929.6
35°	6470.5	5498.6	4621.8	3866.5	3259.0	2767.8	2345.2	1959.6	1611.0	1336.4	971.9
32.5°	6935.3	5900.1	4944.0	4114.7	3449.2	2899.9	2440.3	2033.6	1663.9	1378.6	1014.2
30°	7368.5	6280.4	5260.9	4368.3	3623.5	3021.3	2530.1	2107.5	1727.2	1415.6	1056.4
27.5°	7764.6	6650.1	5577.9	4606.0	3787.2	3132.3	2625.2	2176.2	1780.1	1452.6	1093.4
25°	8123.8	6982.9	5868.4	4822.5	3935.1	3253.8	2715.0	2244.9	1827.6	1484.3	1125.1
22.5°	8461.9	7289.2	6132.5	5039.1	4114.7	3375.2	2799.5	2308.3	1875.1	1516.0	1156.8
20°	8757.7	7569.2	6386.0	5255.7	4273.2	3486.2	2873.4	2366.4	1917.4	1537.1	1188.5
17.5°	8995.4	7817.5	6613.1	5445.8	4410.5	3581.2	2936.8	2419.2	1954.4	1563.5	1209.6
15°	9206.6	8028.7	6803.3	5609.6	4532.0	3660.5	2994.9	2461.4	1986.1	1579.3	1236.0
12.5°	9386.2	8208.3	6967.0	5752.2	4637.7	3729.1	3042.5	2493.1	2012.5	1595.2	1251.8
10°	9534.1	8350.9	7104.4	5863.1	4722.2	3782.0	3079.4	2524.8	2033.6	1611.0	1267.7
7.5°	9645.0	8456.6	7204.7	5958.2	4790.8	3818.9	3111.1	2546.0	2054.7	1621.6	1294.1
5°	9729.6	8546.4	7284.0	6021.6	4843.7	3871.8	3148.1	2572.4	2075.9	1632.2	1294.1
2.5°	9792.9	8620.3	7347.4	6074.4	4885.9	3861.2	3148.1	2567.1	2075.9	1632.2	1288.8
0°	9782.4	8625.6	7342.1	6074.4	4885.9	3850.6	3148.1	2561.8	2075.9	1632.2	1288.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	37.0	26.4	10.6	0.0
85°	79.2	52.8	26.4	0.0
82.5°	116.2	73.9	37.0	0.0
80°	153.2	100.4	47.5	0.0
77.5°	195.4	126.8	63.4	0.0
75°	232.4	147.9	73.9	0.0
72.5°	269.4	174.3	84.5	0.0
70°	301.1	195.4	95.1	0.0
67.5°	332.8	221.8	110.9	0.0
65°	359.2	243.0	121.5	0.0
62.5°	380.3	269.4	132.1	0.0
60°	406.7	290.5	142.6	0.0
57.5°	427.8	306.4	153.2	0.0
55°	449.0	316.9	163.7	0.0
52.5°	470.1	332.8	174.3	0.0
50°	491.2	348.6	184.9	0.0
47.5°	512.4	359.2	190.2	0.0
45°	544.1	375.0	200.7	0.0
42.5°	570.5	385.6	211.3	0.0
40°	596.9	396.2	216.6	0.0
37.5°	623.3	406.7	227.1	0.0
35°	649.7	417.3	232.4	0.0
32.5°	670.8	427.8	237.7	0.0
30°	692.0	438.4	243.0	0.0
27.5°	713.1	443.7	248.3	0.0
25°	728.9	454.3	253.5	0.0
22.5°	744.8	459.5	258.8	0.0
20°	755.3	464.8	264.1	0.0
17.5°	771.2	470.1	269.4	0.0
15°	776.5	475.4	279.9	0.0
12.5°	787.0	480.7	279.9	0.0
10°	792.3	485.9	279.9	0.0
7.5°	802.9	485.9	279.9	0.0
5°	797.6	485.9	279.9	0.0
2.5°	797.6	485.9	279.9	0.0
0°	792.3	485.9	279.9	0.0

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