

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: P623870

Luminaire Tested: **IFLD-S-SA2B-730-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623870
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

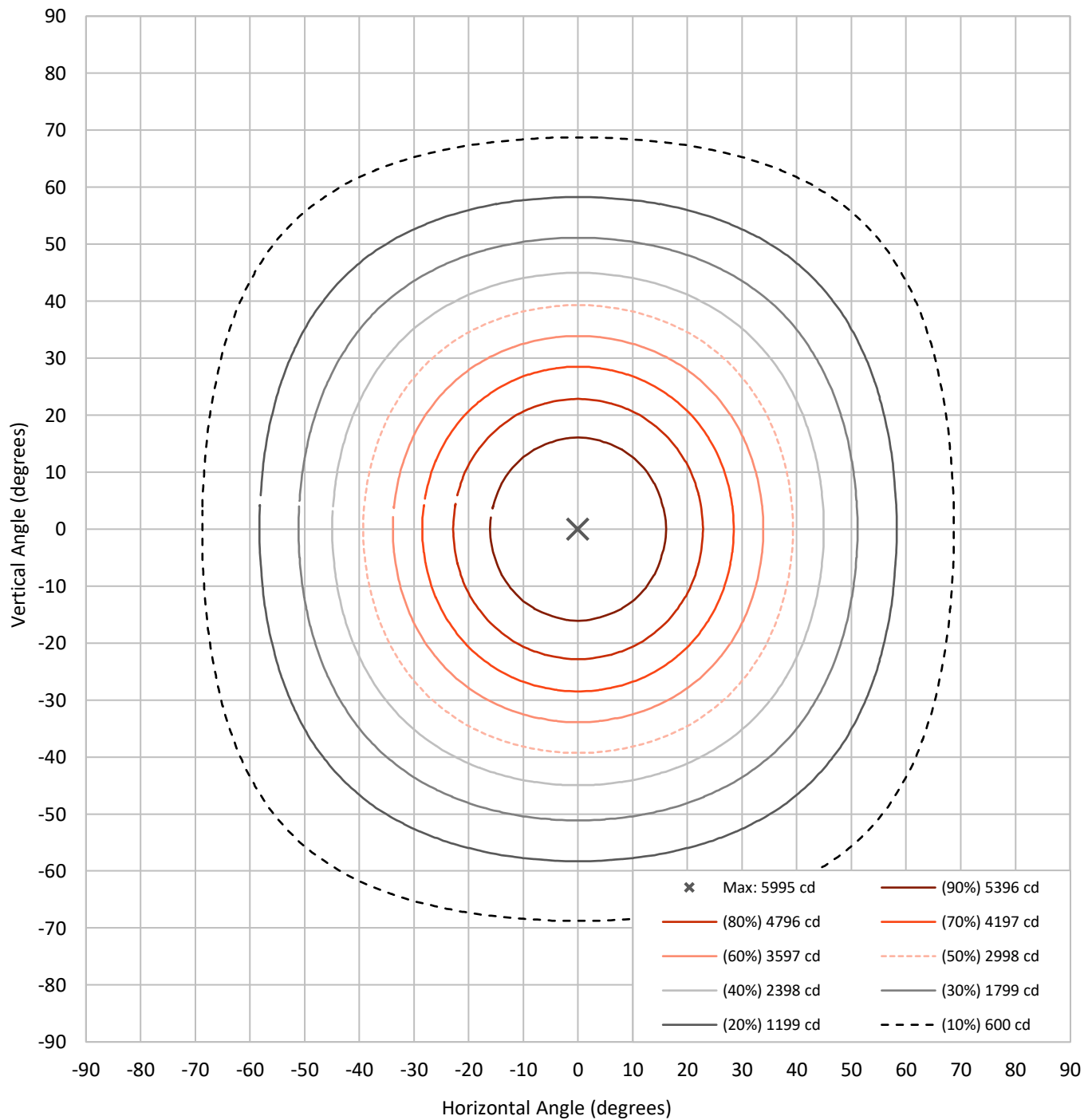
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	10794.1 lumens	Max Intensity:	5995 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	131.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4670.5 lumens	Field Lumens:	7647.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	82.4		
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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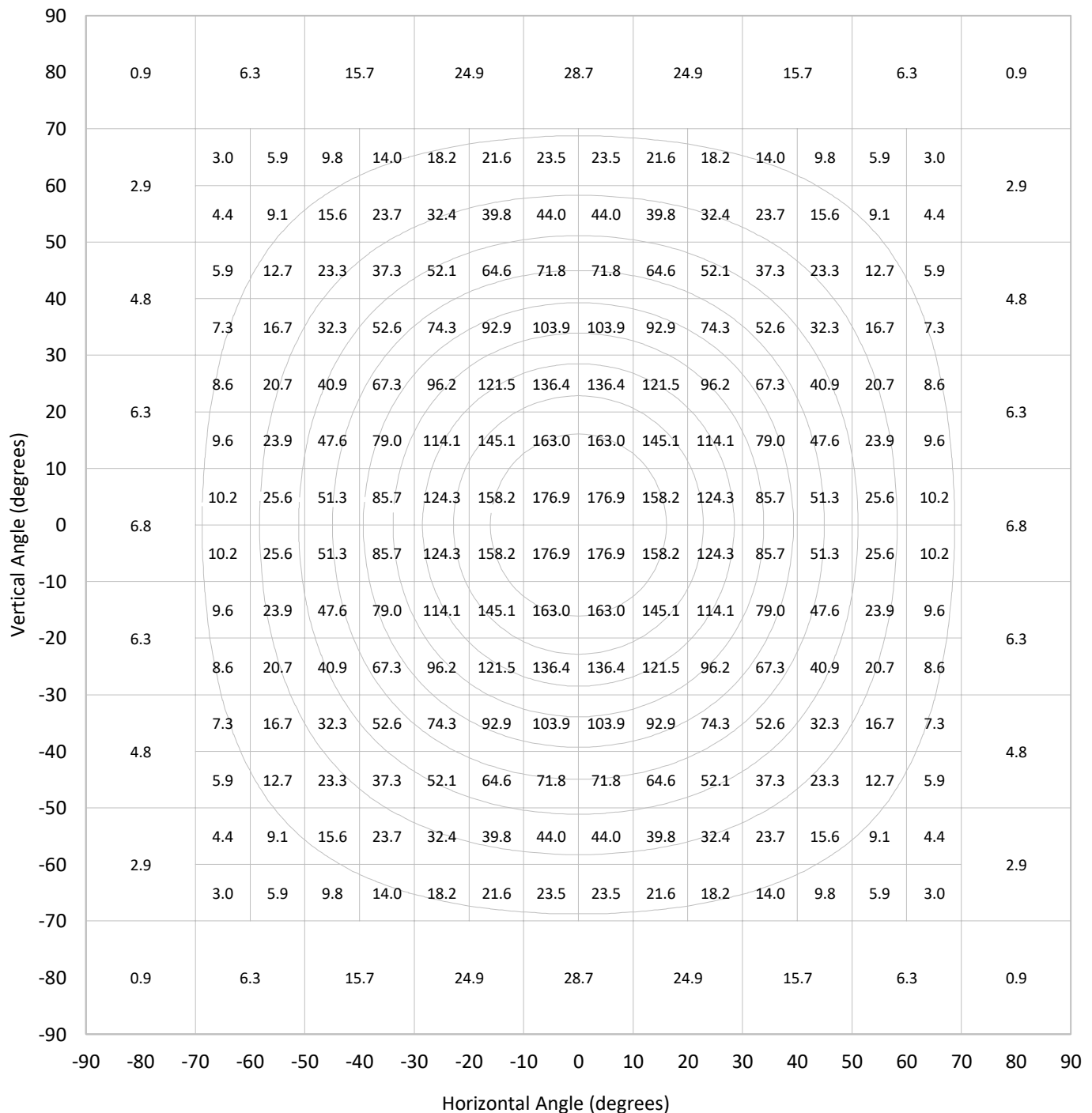
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Iso-Candela Plot



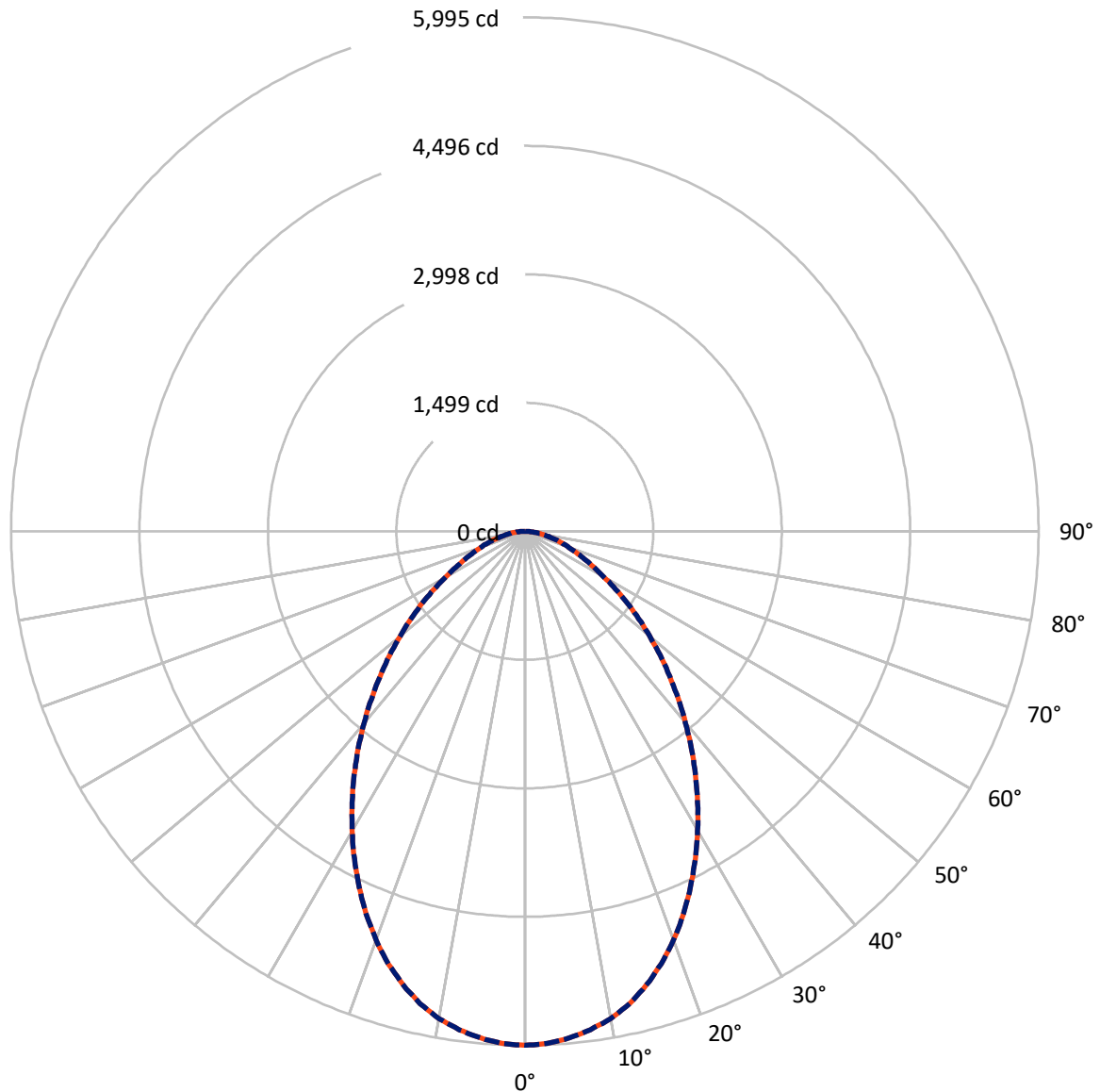
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Lumen Table



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Luminous Intensity Polar Plot

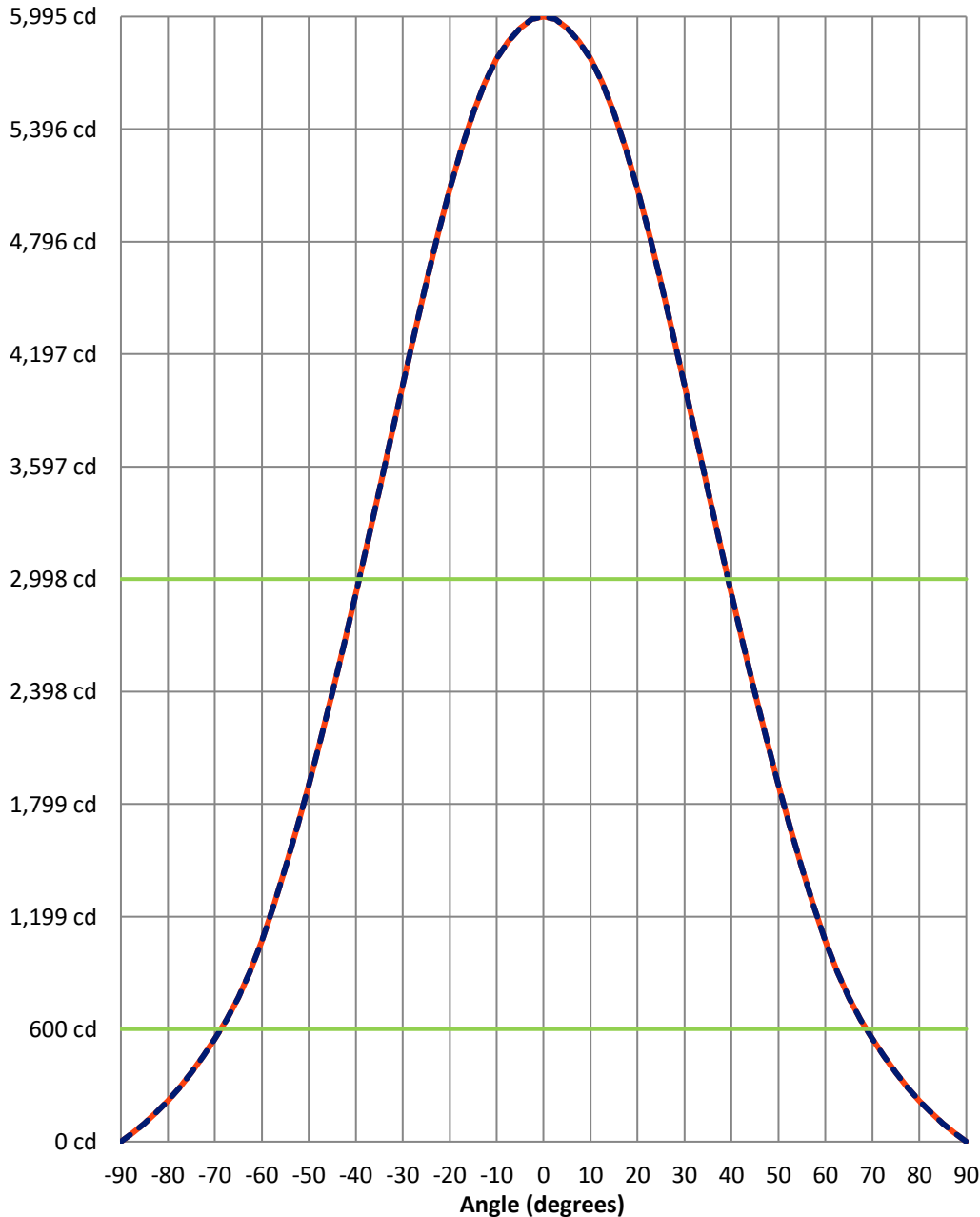


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 4670.5
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 7647.8
Efficiency: 70.9%

Spill:
Lumens: 3146.3
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-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°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	43.9	43.9	42.8	41.6
85°	96.8	96.8	96.8	96.8	96.8	94.5	93.4	92.3	91.2	88.9	87.8
82.5°	155.3	155.3	155.3	155.3	153.1	150.8	149.7	147.4	145.2	141.8	138.4
80°	217.2	217.2	217.2	217.2	213.8	211.6	208.2	205.9	202.6	198.1	193.6
77.5°	288.1	288.1	288.1	284.7	282.5	279.1	275.7	271.2	266.7	261.1	254.3
75°	368.0	368.0	368.0	363.5	360.1	356.7	351.1	345.5	338.7	330.9	321.9
72.5°	454.7	454.7	454.7	449.0	445.7	440.0	433.3	425.4	417.5	407.4	396.1
70°	548.1	548.1	548.1	541.3	535.7	530.1	521.1	512.1	500.8	489.5	476.0
67.5°	649.4	649.4	649.4	641.5	634.7	626.8	616.7	605.5	592.0	576.2	560.4
65°	767.5	767.5	763.0	756.3	748.4	737.1	724.8	709.0	692.1	671.9	650.5
62.5°	907.1	907.1	900.3	892.4	882.3	867.7	850.8	830.5	806.9	781.0	755.1
60°	1069.1	1069.1	1061.2	1051.1	1036.5	1018.5	996.0	970.1	940.8	908.2	876.7
57.5°	1255.9	1255.9	1245.8	1232.3	1214.3	1191.8	1163.7	1131.0	1093.9	1053.4	1014.0
55°	1458.5	1458.5	1446.1	1430.4	1409.0	1382.0	1348.2	1310.0	1264.9	1218.8	1168.2
52.5°	1673.5	1673.5	1658.8	1640.8	1616.1	1584.6	1546.3	1501.3	1449.5	1395.5	1335.8
50°	1899.7	1899.7	1882.8	1862.5	1834.4	1797.3	1753.4	1701.6	1644.2	1581.2	1512.5
47.5°	2141.6	2141.6	2122.5	2098.9	2065.1	2022.3	1970.6	1910.9	1845.6	1774.7	1697.1
45°	2390.3	2390.3	2369.0	2341.9	2304.8	2256.4	2199.0	2141.6	2058.3	1976.2	1886.2
42.5°	2649.2	2649.2	2624.4	2594.0	2551.3	2498.4	2433.1	2358.8	2276.7	2184.4	2086.5
40°	2918.1	2918.1	2890.0	2855.1	2807.9	2747.1	2673.9	2590.7	2498.4	2396.0	2287.9
37.5°	3192.7	3192.7	3161.2	3123.0	3070.1	3002.6	2920.4	2828.1	2724.6	2610.9	2491.6
35°	3469.6	3469.6	3434.7	3393.1	3334.5	3260.3	3171.4	3068.9	2954.2	2830.4	2696.4
32.5°	3752.1	3752.1	3713.8	3666.5	3600.1	3518.0	3420.1	3308.7	3192.7	3048.7	2902.4
30°	4031.2	4031.2	3989.5	3937.8	3866.9	3776.8	3669.9	3547.2	3411.1	3263.6	3106.1
27.5°	4305.8	4294.5	4259.6	4204.5	4126.8	4031.2	3915.2	3782.4	3635.0	3473.0	3304.2
25°	4575.9	4563.5	4525.2	4464.4	4381.2	4276.5	4151.6	4009.8	3851.1	3680.0	3495.5
22.5°	4834.7	4821.2	4780.7	4715.4	4626.5	4512.8	4378.9	4227.0	4058.2	3874.7	3680.0
20°	5074.4	5059.8	5018.1	4949.5	4857.2	4736.8	4595.0	4431.8	4251.7	4058.2	3851.1
17.5°	5290.5	5275.8	5232.0	5161.1	5074.4	4940.5	4794.2	4622.0	4431.8	4227.0	4009.8
15°	5480.7	5464.9	5419.9	5349.0	5250.0	5123.9	4969.7	4794.2	4595.0	4378.9	4151.6
12.5°	5642.7	5627.0	5580.8	5509.9	5407.5	5281.5	5123.9	4940.5	4736.8	4512.8	4276.5
10°	5771.0	5755.3	5711.4	5643.9	5538.1	5407.5	5250.0	5074.4	4857.2	4626.5	4381.2
7.5°	5863.3	5848.7	5808.2	5740.6	5643.9	5509.9	5349.0	5161.1	4949.5	4715.4	4464.4
5°	5933.1	5916.2	5875.7	5808.2	5711.4	5580.8	5419.9	5232.0	5018.1	4780.7	4525.2
2.5°	5981.5	5961.2	5916.2	5848.7	5755.3	5627.0	5464.9	5275.8	5059.8	4821.2	4563.5
0°	5995.0	5981.5	5933.1	5863.3	5771.0	5642.7	5480.7	5290.5	5074.4	4834.7	4575.9

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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°	40.5	40.5	39.4	38.3	37.1	34.9	33.8	32.6	31.5	29.3	28.1
85°	85.5	83.3	81.0	78.8	75.4	73.2	69.8	67.5	64.1	60.8	57.4
82.5°	135.0	131.7	127.2	123.8	119.3	113.7	109.2	103.5	97.9	93.4	87.8
80°	189.1	183.4	177.8	172.2	165.4	158.7	151.9	145.2	137.3	129.4	121.5
77.5°	247.6	239.7	231.8	222.8	215.0	205.9	196.9	187.9	177.8	167.7	157.6
75°	312.9	302.7	291.5	280.2	270.1	257.7	245.3	233.0	219.5	207.1	193.6
72.5°	383.8	371.4	357.9	344.4	329.7	314.0	298.2	281.3	265.6	249.8	233.0
70°	460.3	445.7	428.8	411.9	393.9	374.8	355.6	335.4	315.1	294.9	274.6
67.5°	542.4	524.4	504.2	483.9	461.4	438.9	416.4	392.8	368.0	343.2	319.6
65°	630.2	607.7	584.1	558.2	532.3	506.4	479.4	451.3	423.1	393.9	368.0
62.5°	728.1	700.0	669.6	638.1	608.8	577.3	548.1	513.2	479.4	446.8	414.1
60°	841.8	804.7	767.5	728.1	691.0	650.5	614.5	576.2	537.9	500.8	462.5
57.5°	969.0	921.7	876.7	829.4	779.9	734.9	688.7	642.6	599.8	555.9	514.3
55°	1113.0	1055.6	999.3	940.8	883.4	827.2	768.6	716.9	664.0	614.5	566.1
52.5°	1270.6	1205.3	1135.5	1069.1	996.0	926.2	860.9	795.7	733.8	674.1	619.0
50°	1439.4	1362.9	1282.9	1201.9	1118.6	1036.5	957.7	881.2	809.2	739.4	674.1
47.5°	1614.9	1528.3	1437.1	1344.8	1255.9	1155.8	1061.2	974.6	887.9	809.2	733.8
45°	1795.0	1697.1	1596.9	1492.3	1387.6	1279.6	1174.9	1069.1	974.6	881.2	795.7
42.5°	1980.7	1870.4	1759.0	1643.1	1527.2	1409.0	1290.8	1174.9	1061.2	957.7	860.9
40°	2172.0	2050.5	1923.3	1797.3	1673.5	1538.4	1409.0	1279.6	1155.8	1036.5	926.2
37.5°	2363.3	2230.5	2093.2	1951.4	1809.6	1673.5	1527.2	1387.6	1255.9	1118.6	996.0
35°	2555.8	2409.5	2260.9	2106.7	1951.4	1797.3	1643.1	1492.3	1344.8	1201.9	1069.1
32.5°	2749.3	2589.5	2425.2	2260.9	2093.2	1923.3	1759.0	1596.9	1437.1	1282.9	1135.5
30°	2939.5	2766.2	2589.5	2409.5	2230.5	2050.5	1870.4	1697.1	1528.3	1362.9	1205.3
27.5°	3125.2	2939.5	2749.3	2555.8	2363.3	2172.0	1980.7	1795.0	1614.9	1439.4	1270.6
25°	3304.2	3106.1	2902.4	2696.4	2491.6	2287.9	2086.5	1886.2	1697.1	1512.5	1335.8
22.5°	3473.0	3263.6	3048.7	2830.4	2610.9	2396.0	2184.4	1976.2	1774.7	1581.2	1395.5
20°	3635.0	3411.1	3192.7	2954.2	2724.6	2498.4	2276.7	2058.3	1845.6	1644.2	1449.5
17.5°	3782.4	3547.2	3308.7	3068.9	2828.1	2590.7	2358.8	2141.6	1910.9	1701.6	1501.3
15°	3915.2	3669.9	3420.1	3171.4	2920.4	2673.9	2433.1	2199.0	1970.6	1753.4	1546.3
12.5°	4031.2	3776.8	3518.0	3260.3	3002.6	2747.1	2498.4	2256.4	2022.3	1797.3	1584.6
10°	4126.8	3866.9	3600.1	3334.5	3070.1	2807.9	2551.3	2304.8	2065.1	1834.4	1616.1
7.5°	4204.5	3937.8	3666.5	3393.1	3123.0	2855.1	2594.0	2341.9	2098.9	1862.5	1640.8
5°	4259.6	3989.5	3713.8	3434.7	3161.2	2890.0	2624.4	2369.0	2122.5	1882.8	1658.8
2.5°	4294.5	4031.2	3752.1	3469.6	3192.7	2918.1	2649.2	2390.3	2141.6	1899.7	1673.5
0°	4305.8	4031.2	3752.1	3469.6	3192.7	2918.1	2649.2	2390.3	2141.6	1899.7	1673.5

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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°	27.0	24.8	22.5	21.4	19.1	18.0	15.8	13.5	12.4	10.1	7.9
85°	54.0	49.5	46.1	42.8	39.4	34.9	31.5	28.1	23.6	20.3	15.8
82.5°	82.2	76.5	70.9	65.3	59.6	54.0	47.3	41.6	36.0	30.4	23.6
80°	113.7	104.7	96.8	88.9	81.0	73.2	64.1	56.3	47.3	39.4	31.5
77.5°	146.3	136.2	124.9	113.7	102.4	92.3	81.0	70.9	60.8	49.5	39.4
75°	181.2	167.7	155.3	140.7	127.2	112.5	99.0	85.5	73.2	60.8	47.3
72.5°	217.2	200.3	183.4	167.7	150.8	133.9	118.2	101.3	85.5	70.9	56.3
70°	254.3	234.1	213.8	194.7	175.6	155.3	137.3	118.2	99.0	81.0	64.1
67.5°	293.7	270.1	246.5	221.7	200.3	177.8	155.3	133.9	112.5	92.3	73.2
65°	336.5	308.4	279.1	253.2	225.1	200.3	175.6	150.8	127.2	102.4	81.0
62.5°	380.4	347.7	315.1	282.5	253.2	221.7	194.7	167.7	140.7	113.7	88.9
60°	425.4	388.3	351.1	315.1	279.1	246.5	213.8	183.4	155.3	124.9	96.8
57.5°	471.5	429.9	388.3	347.7	308.4	270.1	234.1	200.3	167.7	136.2	104.7
55°	518.8	471.5	425.4	380.4	336.5	293.7	254.3	217.2	181.2	146.3	113.7
52.5°	566.1	514.3	462.5	414.1	368.0	319.6	274.6	233.0	193.6	157.6	121.5
50°	614.5	555.9	500.8	446.8	393.9	343.2	294.9	249.8	207.1	167.7	129.4
47.5°	664.0	599.8	537.9	479.4	423.1	368.0	315.1	265.6	219.5	177.8	137.3
45°	716.9	642.6	576.2	513.2	451.3	392.8	335.4	281.3	233.0	187.9	145.2
42.5°	768.6	688.7	614.5	548.1	479.4	416.4	355.6	298.2	245.3	196.9	151.9
40°	827.2	734.9	650.5	577.3	506.4	438.9	374.8	314.0	257.7	205.9	158.7
37.5°	883.4	779.9	691.0	608.8	532.3	461.4	393.9	329.7	270.1	215.0	165.4
35°	940.8	829.4	728.1	638.1	558.2	483.9	411.9	344.4	280.2	222.8	172.2
32.5°	999.3	876.7	767.5	669.6	584.1	504.2	428.8	357.9	291.5	231.8	177.8
30°	1055.6	921.7	804.7	700.0	607.7	524.4	445.7	371.4	302.7	239.7	183.4
27.5°	1113.0	969.0	841.8	728.1	630.2	542.4	460.3	383.8	312.9	247.6	189.1
25°	1168.2	1014.0	876.7	755.1	650.5	560.4	476.0	396.1	321.9	254.3	193.6
22.5°	1218.8	1053.4	908.2	781.0	671.9	576.2	489.5	407.4	330.9	261.1	198.1
20°	1264.9	1093.9	940.8	806.9	692.1	592.0	500.8	417.5	338.7	266.7	202.6
17.5°	1310.0	1131.0	970.1	830.5	709.0	605.5	512.1	425.4	345.5	271.2	205.9
15°	1348.2	1163.7	996.0	850.8	724.8	616.7	521.1	433.3	351.1	275.7	208.2
12.5°	1382.0	1191.8	1018.5	867.7	737.1	626.8	530.1	440.0	356.7	279.1	211.6
10°	1409.0	1214.3	1036.5	882.3	748.4	634.7	535.7	445.7	360.1	282.5	213.8
7.5°	1430.4	1232.3	1051.1	892.4	756.3	641.5	541.3	449.0	363.5	284.7	217.2
5°	1446.1	1245.8	1061.2	900.3	763.0	649.4	548.1	454.7	368.0	288.1	217.2
2.5°	1458.5	1255.9	1069.1	907.1	767.5	649.4	548.1	454.7	368.0	288.1	217.2
0°	1458.5	1255.9	1069.1	907.1	767.5	649.4	548.1	454.7	368.0	288.1	217.2

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.6	4.5	2.3	0.0
85°	12.4	7.9	4.5	0.0
82.5°	18.0	12.4	5.6	0.0
80°	23.6	15.8	7.9	0.0
77.5°	30.4	20.3	10.1	0.0
75°	36.0	23.6	12.4	0.0
72.5°	41.6	28.1	13.5	0.0
70°	47.3	31.5	15.8	0.0
67.5°	54.0	34.9	18.0	0.0
65°	59.6	39.4	19.1	0.0
62.5°	65.3	42.8	21.4	0.0
60°	70.9	46.1	22.5	0.0
57.5°	76.5	49.5	24.8	0.0
55°	82.2	54.0	27.0	0.0
52.5°	87.8	57.4	28.1	0.0
50°	93.4	60.8	29.3	0.0
47.5°	97.9	64.1	31.5	0.0
45°	103.5	67.5	32.6	0.0
42.5°	109.2	69.8	33.8	0.0
40°	113.7	73.2	34.9	0.0
37.5°	119.3	75.4	37.1	0.0
35°	123.8	78.8	38.3	0.0
32.5°	127.2	81.0	39.4	0.0
30°	131.7	83.3	40.5	0.0
27.5°	135.0	85.5	40.5	0.0
25°	138.4	87.8	41.6	0.0
22.5°	141.8	88.9	42.8	0.0
20°	145.2	91.2	43.9	0.0
17.5°	147.4	92.3	43.9	0.0
15°	149.7	93.4	46.1	0.0
12.5°	150.8	94.5	46.1	0.0
10°	153.1	96.8	46.1	0.0
7.5°	155.3	96.8	46.1	0.0
5°	155.3	96.8	46.1	0.0
2.5°	155.3	96.8	46.1	0.0
0°	155.3	96.8	46.1	0.0

(END OF REPORT)