

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: P623899

Luminaire Tested: **IFLD-S-SA2B-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623899
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

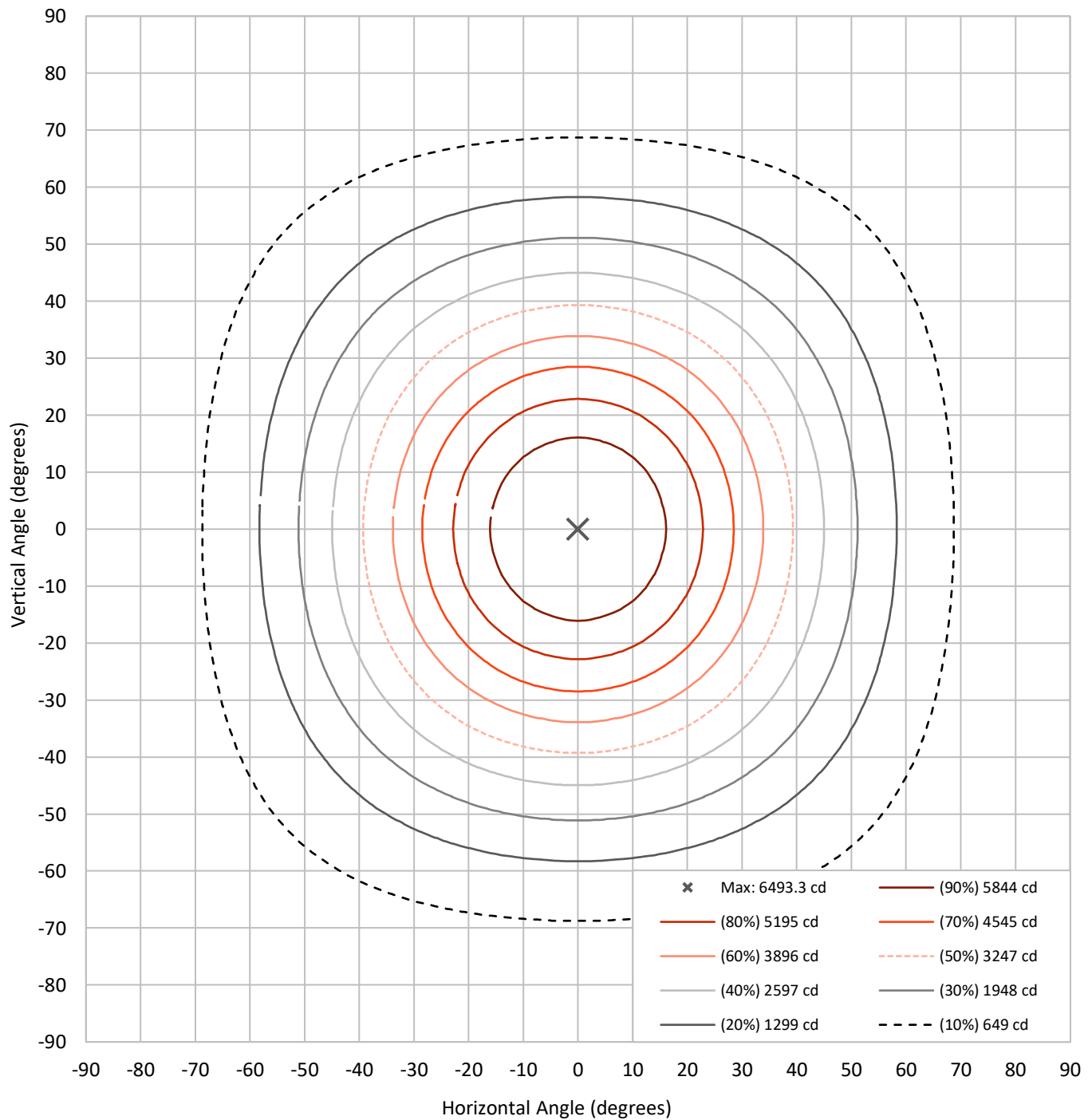
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	11691.4 lumens	Max Intensity:	6493.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	141.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	5058.8 lumens	Field Lumens:	8283.5 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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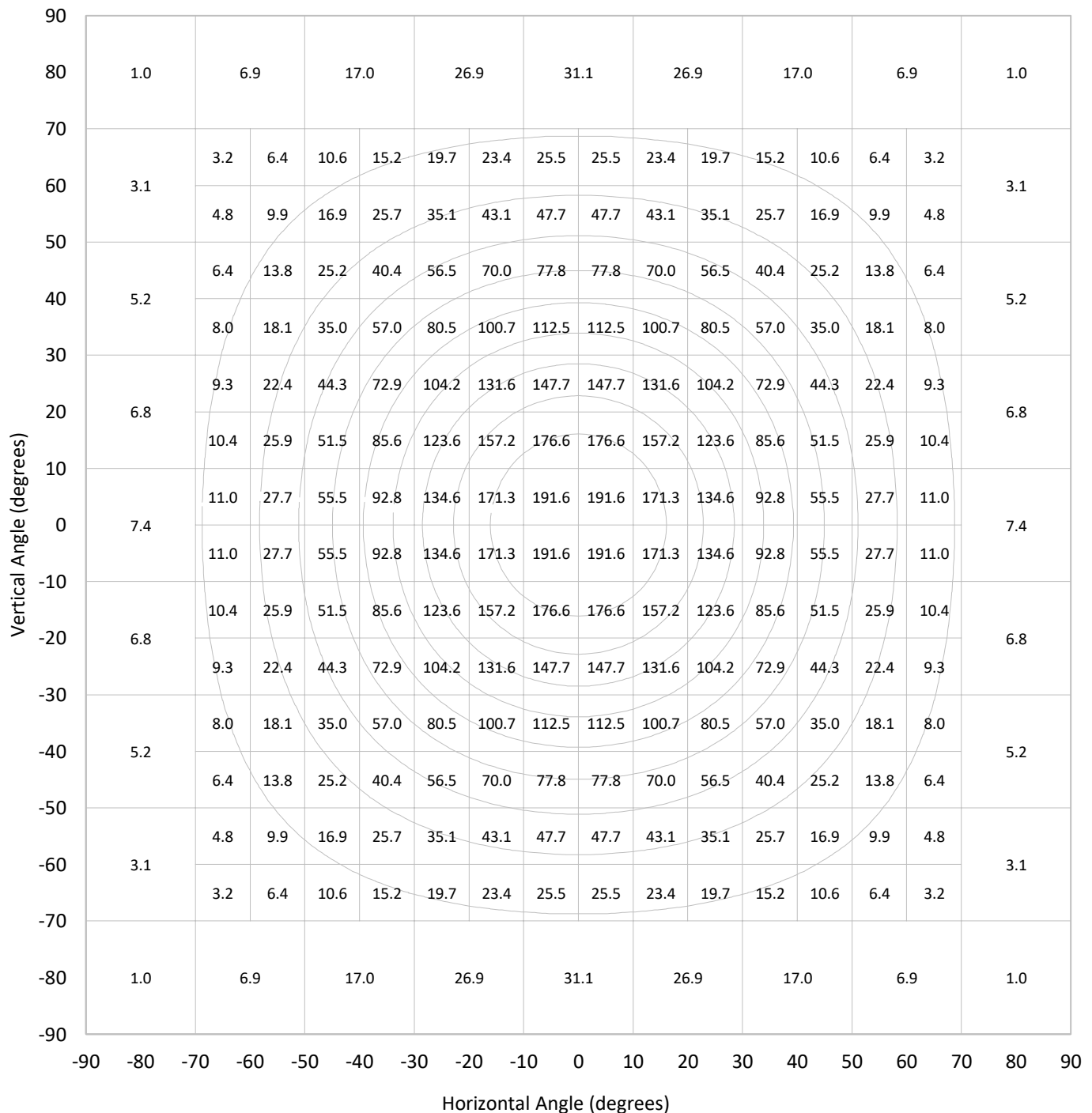
Iso-Candela Plot



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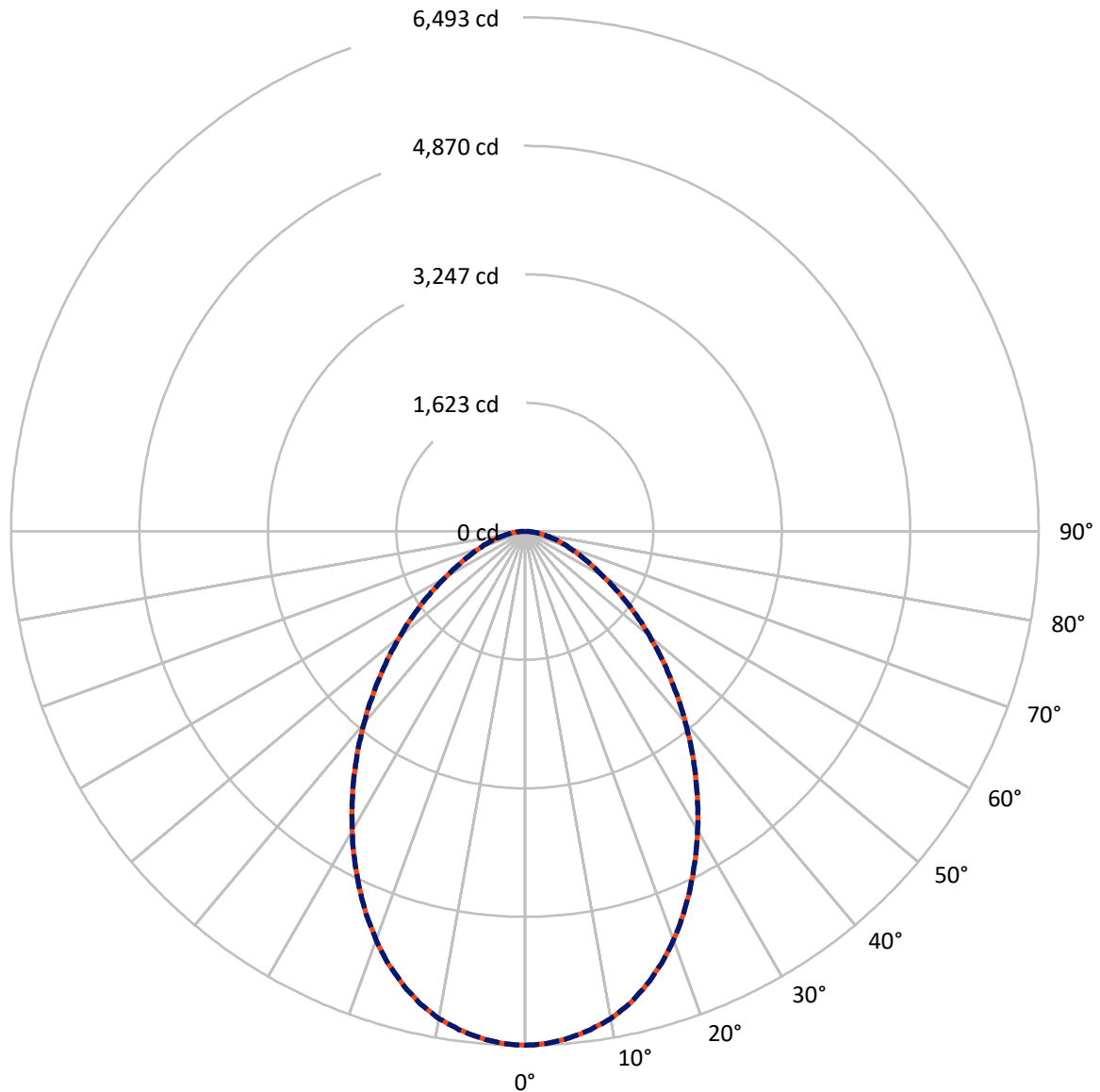
Lumen Table



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Luminous Intensity Polar Plot

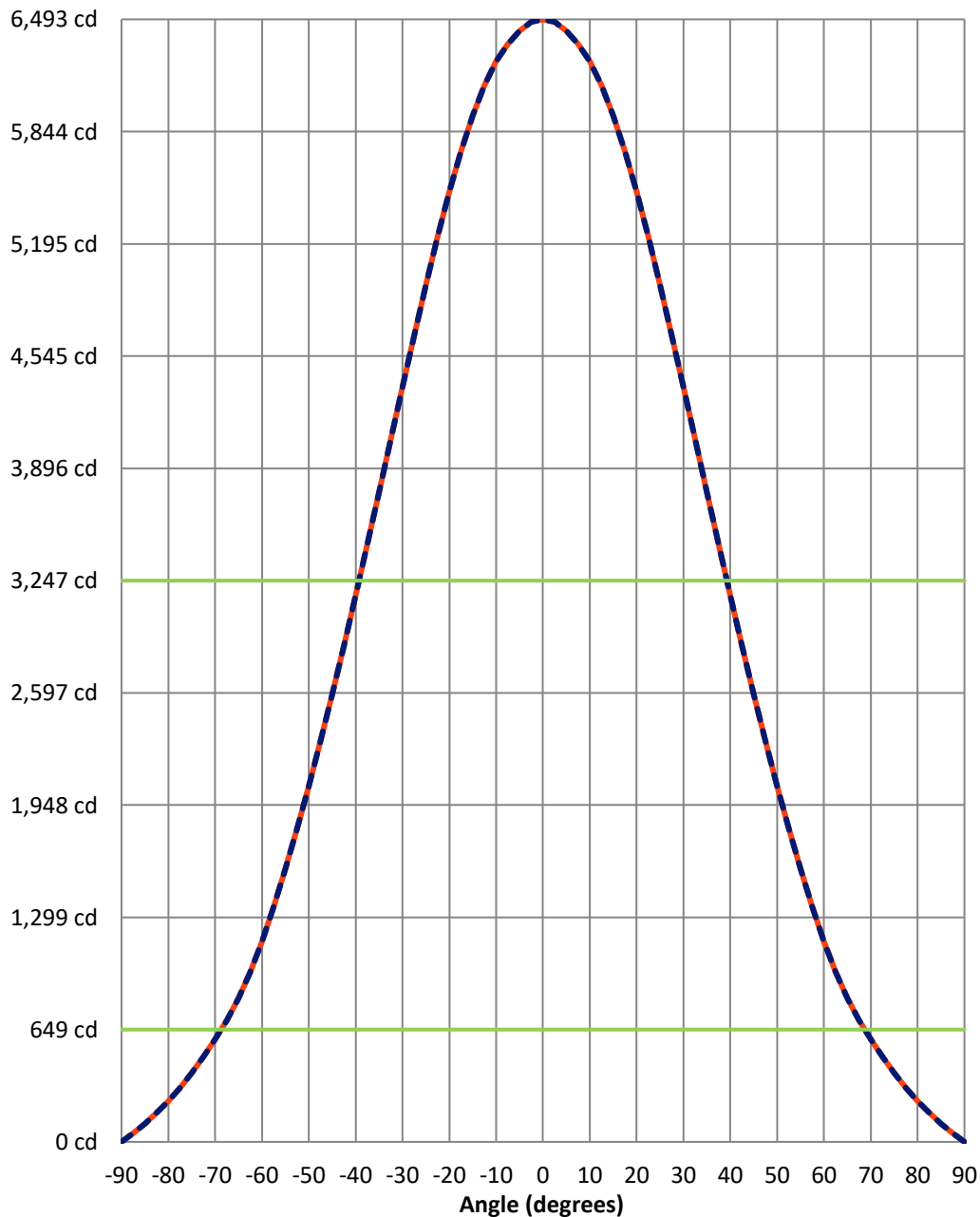


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 5058.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 8283.5
Efficiency: 70.9%

Spill:

Lumens: 3407.9
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°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	47.5	47.5	46.3	45.1
85°	104.8	104.8	104.8	104.8	104.8	102.4	101.2	100.0	98.7	96.3	95.1
82.5°	168.2	168.2	168.2	168.2	165.8	163.3	162.1	159.7	157.2	153.6	149.9
80°	235.3	235.3	235.3	235.3	231.6	229.2	225.5	223.1	219.4	214.5	209.7
77.5°	312.1	312.1	312.1	308.4	306.0	302.3	298.6	293.8	288.9	282.8	275.5
75°	398.6	398.6	398.6	393.7	390.1	386.4	380.3	374.2	366.9	358.4	348.6
72.5°	492.5	492.5	492.5	486.4	482.7	476.6	469.3	460.8	452.2	441.3	429.1
70°	593.6	593.6	593.6	586.3	580.2	574.1	564.4	554.6	542.4	530.2	515.6
67.5°	703.3	703.3	703.3	694.8	687.5	679.0	668.0	655.8	641.2	624.1	607.0
65°	831.3	831.3	826.4	819.1	810.6	798.4	785.0	767.9	749.7	727.7	704.6
62.5°	982.5	982.5	975.2	966.6	955.7	939.8	921.5	899.6	874.0	846.0	817.9
60°	1158.0	1158.0	1149.5	1138.5	1122.7	1103.1	1078.8	1050.7	1019.0	983.7	949.6
57.5°	1360.3	1360.3	1349.4	1334.8	1315.2	1290.9	1260.4	1225.0	1184.8	1140.9	1098.3
55°	1579.8	1579.8	1566.4	1549.3	1526.1	1496.9	1460.3	1418.9	1370.1	1320.1	1265.3
52.5°	1812.6	1812.6	1796.7	1777.2	1750.4	1716.3	1674.8	1626.1	1570.0	1511.5	1446.9
50°	2057.6	2057.6	2039.3	2017.4	1986.9	1946.7	1899.1	1843.1	1780.9	1712.6	1638.3
47.5°	2319.7	2319.7	2298.9	2273.3	2236.8	2190.5	2134.4	2069.8	1999.1	1922.3	1838.2
45°	2589.1	2589.1	2565.9	2536.6	2496.4	2444.0	2381.8	2319.7	2229.5	2140.5	2043.0
42.5°	2869.4	2869.4	2842.6	2809.7	2763.4	2706.1	2635.4	2554.9	2465.9	2366.0	2259.9
40°	3160.7	3160.7	3130.3	3092.5	3041.3	2975.5	2896.2	2806.0	2706.1	2595.1	2478.1
37.5°	3458.2	3458.2	3424.0	3382.6	3325.3	3252.2	3163.2	3063.2	2951.1	2828.0	2698.8
35°	3758.0	3758.0	3720.2	3675.1	3611.7	3531.3	3435.0	3324.1	3199.7	3065.7	2920.6
32.5°	4064.0	4064.0	4022.5	3971.3	3899.4	3810.4	3704.4	3583.7	3458.2	3302.1	3143.7
30°	4366.3	4366.3	4321.2	4265.1	4188.3	4090.8	3975.0	3842.1	3694.6	3535.0	3364.3
27.5°	4663.7	4651.5	4613.7	4554.0	4469.9	4366.3	4240.7	4096.9	3937.2	3761.7	3578.8
25°	4956.3	4942.8	4901.4	4835.6	4745.4	4632.0	4496.7	4343.1	4171.2	3986.0	3786.1
22.5°	5236.6	5222.0	5178.1	5107.4	5011.1	4888.0	4742.9	4578.4	4395.5	4196.8	3986.0
20°	5496.2	5480.4	5435.3	5360.9	5261.0	5130.6	4977.0	4800.2	4605.2	4395.5	4171.2
17.5°	5730.3	5714.4	5666.9	5590.1	5496.2	5351.2	5192.7	5006.2	4800.2	4578.4	4343.1
15°	5936.3	5919.2	5870.5	5793.7	5686.4	5549.9	5382.9	5192.7	4977.0	4742.9	4496.7
12.5°	6111.8	6094.8	6044.8	5968.0	5857.1	5720.5	5549.9	5351.2	5130.6	4888.0	4632.0
10°	6250.8	6233.7	6186.2	6113.0	5998.5	5857.1	5686.4	5496.2	5261.0	5011.1	4745.4
7.5°	6350.7	6334.9	6291.0	6217.9	6113.0	5968.0	5793.7	5590.1	5360.9	5107.4	4835.6
5°	6426.3	6408.0	6364.1	6291.0	6186.2	6044.8	5870.5	5666.9	5435.3	5178.1	4901.4
2.5°	6478.7	6456.8	6408.0	6334.9	6233.7	6094.8	5919.2	5714.4	5480.4	5222.0	4942.8
0°	6493.3	6478.7	6426.3	6350.7	6250.8	6111.8	5936.3	5730.3	5496.2	5236.6	4956.3

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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°	43.9	43.9	42.7	41.4	40.2	37.8	36.6	35.3	34.1	31.7	30.5
85°	92.6	90.2	87.8	85.3	81.7	79.2	75.6	73.1	69.5	65.8	62.2
82.5°	146.3	142.6	137.7	134.1	129.2	123.1	118.2	112.1	106.0	101.2	95.1
80°	204.8	198.7	192.6	186.5	179.2	171.9	164.6	157.2	148.7	140.2	131.6
77.5°	268.2	259.6	251.1	241.4	232.8	223.1	213.3	203.6	192.6	181.6	170.7
75°	338.9	327.9	315.7	303.5	292.5	279.1	265.7	252.3	237.7	224.3	209.7
72.5°	415.7	402.3	387.6	373.0	357.2	340.1	323.0	304.7	287.7	270.6	252.3
70°	498.6	482.7	464.4	446.1	426.6	405.9	385.2	363.2	341.3	319.4	297.4
67.5°	587.5	568.0	546.1	524.1	499.8	475.4	451.0	425.4	398.6	371.8	346.2
65°	682.6	658.2	632.6	604.6	576.6	548.5	519.3	488.8	458.3	426.6	398.6
62.5°	788.7	758.2	725.3	691.1	659.5	625.3	593.6	555.8	519.3	483.9	448.6
60°	911.8	871.5	831.3	788.7	748.4	704.6	665.5	624.1	582.7	542.4	501.0
57.5°	1049.5	998.3	949.6	898.4	844.7	796.0	746.0	696.0	649.7	602.2	557.1
55°	1205.5	1143.4	1082.4	1019.0	956.9	895.9	832.5	776.5	719.2	665.5	613.1
52.5°	1376.2	1305.5	1229.9	1158.0	1078.8	1003.2	932.5	861.8	794.8	730.2	670.4
50°	1559.0	1476.1	1389.6	1301.8	1211.6	1122.7	1037.3	954.4	876.4	800.9	730.2
47.5°	1749.2	1655.3	1556.6	1456.6	1360.3	1251.9	1149.5	1055.6	961.8	876.4	794.8
45°	1944.2	1838.2	1729.7	1616.3	1503.0	1385.9	1272.6	1158.0	1055.6	954.4	861.8
42.5°	2145.4	2025.9	1905.2	1779.7	1654.1	1526.1	1398.1	1272.6	1149.5	1037.3	932.5
40°	2352.6	2220.9	2083.2	1946.7	1812.6	1666.3	1526.1	1385.9	1251.9	1122.7	1003.2
37.5°	2559.8	2416.0	2267.2	2113.7	1960.1	1812.6	1654.1	1503.0	1360.3	1211.6	1078.8
35°	2768.2	2609.8	2448.9	2281.9	2113.7	1946.7	1779.7	1616.3	1456.6	1301.8	1158.0
32.5°	2977.9	2804.8	2626.8	2448.9	2267.2	2083.2	1905.2	1729.7	1556.6	1389.6	1229.9
30°	3183.9	2996.2	2804.8	2609.8	2416.0	2220.9	2025.9	1838.2	1655.3	1476.1	1305.5
27.5°	3385.0	3183.9	2977.9	2768.2	2559.8	2352.6	2145.4	1944.2	1749.2	1559.0	1376.2
25°	3578.8	3364.3	3143.7	2920.6	2698.8	2478.1	2259.9	2043.0	1838.2	1638.3	1446.9
22.5°	3761.7	3535.0	3302.1	3065.7	2828.0	2595.1	2366.0	2140.5	1922.3	1712.6	1511.5
20°	3937.2	3694.6	3458.2	3199.7	2951.1	2706.1	2465.9	2229.5	1999.1	1780.9	1570.0
17.5°	4096.9	3842.1	3583.7	3324.1	3063.2	2806.0	2554.9	2319.7	2069.8	1843.1	1626.1
15°	4240.7	3975.0	3704.4	3435.0	3163.2	2896.2	2635.4	2381.8	2134.4	1899.1	1674.8
12.5°	4366.3	4090.8	3810.4	3531.3	3252.2	2975.5	2706.1	2444.0	2190.5	1946.7	1716.3
10°	4469.9	4188.3	3899.4	3611.7	3325.3	3041.3	2763.4	2496.4	2236.8	1986.9	1750.4
7.5°	4554.0	4265.1	3971.3	3675.1	3382.6	3092.5	2809.7	2536.6	2273.3	2017.4	1777.2
5°	4613.7	4321.2	4022.5	3720.2	3424.0	3130.3	2842.6	2565.9	2298.9	2039.3	1796.7
2.5°	4651.5	4366.3	4064.0	3758.0	3458.2	3160.7	2869.4	2589.1	2319.7	2057.6	1812.6
0°	4663.7	4366.3	4064.0	3758.0	3458.2	3160.7	2869.4	2589.1	2319.7	2057.6	1812.6

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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°	29.3	26.8	24.4	23.2	20.7	19.5	17.1	14.6	13.4	11.0	8.5
85°	58.5	53.6	50.0	46.3	42.7	37.8	34.1	30.5	25.6	21.9	17.1
82.5°	89.0	82.9	76.8	70.7	64.6	58.5	51.2	45.1	39.0	32.9	25.6
80°	123.1	113.4	104.8	96.3	87.8	79.2	69.5	60.9	51.2	42.7	34.1
77.5°	158.5	147.5	135.3	123.1	110.9	100.0	87.8	76.8	65.8	53.6	42.7
75°	196.3	181.6	168.2	152.4	137.7	121.9	107.3	92.6	79.2	65.8	51.2
72.5°	235.3	217.0	198.7	181.6	163.3	145.1	128.0	109.7	92.6	76.8	60.9
70°	275.5	253.5	231.6	210.9	190.2	168.2	148.7	128.0	107.3	87.8	69.5
67.5°	318.1	292.5	267.0	240.1	217.0	192.6	168.2	145.1	121.9	100.0	79.2
65°	364.5	334.0	302.3	274.3	243.8	217.0	190.2	163.3	137.7	110.9	87.8
62.5°	412.0	376.7	341.3	306.0	274.3	240.1	210.9	181.6	152.4	123.1	96.3
60°	460.8	420.5	380.3	341.3	302.3	267.0	231.6	198.7	168.2	135.3	104.8
57.5°	510.7	465.6	420.5	376.7	334.0	292.5	253.5	217.0	181.6	147.5	113.4
55°	561.9	510.7	460.8	412.0	364.5	318.1	275.5	235.3	196.3	158.5	123.1
52.5°	613.1	557.1	501.0	448.6	398.6	346.2	297.4	252.3	209.7	170.7	131.6
50°	665.5	602.2	542.4	483.9	426.6	371.8	319.4	270.6	224.3	181.6	140.2
47.5°	719.2	649.7	582.7	519.3	458.3	398.6	341.3	287.7	237.7	192.6	148.7
45°	776.5	696.0	624.1	555.8	488.8	425.4	363.2	304.7	252.3	203.6	157.2
42.5°	832.5	746.0	665.5	593.6	519.3	451.0	385.2	323.0	265.7	213.3	164.6
40°	895.9	796.0	704.6	625.3	548.5	475.4	405.9	340.1	279.1	223.1	171.9
37.5°	956.9	844.7	748.4	659.5	576.6	499.8	426.6	357.2	292.5	232.8	179.2
35°	1019.0	898.4	788.7	691.1	604.6	524.1	446.1	373.0	303.5	241.4	186.5
32.5°	1082.4	949.6	831.3	725.3	632.6	546.1	464.4	387.6	315.7	251.1	192.6
30°	1143.4	998.3	871.5	758.2	658.2	568.0	482.7	402.3	327.9	259.6	198.7
27.5°	1205.5	1049.5	911.8	788.7	682.6	587.5	498.6	415.7	338.9	268.2	204.8
25°	1265.3	1098.3	949.6	817.9	704.6	607.0	515.6	429.1	348.6	275.5	209.7
22.5°	1320.1	1140.9	983.7	846.0	727.7	624.1	530.2	441.3	358.4	282.8	214.5
20°	1370.1	1184.8	1019.0	874.0	749.7	641.2	542.4	452.2	366.9	288.9	219.4
17.5°	1418.9	1225.0	1050.7	899.6	767.9	655.8	554.6	460.8	374.2	293.8	223.1
15°	1460.3	1260.4	1078.8	921.5	785.0	668.0	564.4	469.3	380.3	298.6	225.5
12.5°	1496.9	1290.9	1103.1	939.8	798.4	679.0	574.1	476.6	386.4	302.3	229.2
10°	1526.1	1315.2	1122.7	955.7	810.6	687.5	580.2	482.7	390.1	306.0	231.6
7.5°	1549.3	1334.8	1138.5	966.6	819.1	694.8	586.3	486.4	393.7	308.4	235.3
5°	1566.4	1349.4	1149.5	975.2	826.4	703.3	593.6	492.5	398.6	312.1	235.3
2.5°	1579.8	1360.3	1158.0	982.5	831.3	703.3	593.6	492.5	398.6	312.1	235.3
0°	1579.8	1360.3	1158.0	982.5	831.3	703.3	593.6	492.5	398.6	312.1	235.3

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.1	4.9	2.4	0.0
85°	13.4	8.5	4.9	0.0
82.5°	19.5	13.4	6.1	0.0
80°	25.6	17.1	8.5	0.0
77.5°	32.9	21.9	11.0	0.0
75°	39.0	25.6	13.4	0.0
72.5°	45.1	30.5	14.6	0.0
70°	51.2	34.1	17.1	0.0
67.5°	58.5	37.8	19.5	0.0
65°	64.6	42.7	20.7	0.0
62.5°	70.7	46.3	23.2	0.0
60°	76.8	50.0	24.4	0.0
57.5°	82.9	53.6	26.8	0.0
55°	89.0	58.5	29.3	0.0
52.5°	95.1	62.2	30.5	0.0
50°	101.2	65.8	31.7	0.0
47.5°	106.0	69.5	34.1	0.0
45°	112.1	73.1	35.3	0.0
42.5°	118.2	75.6	36.6	0.0
40°	123.1	79.2	37.8	0.0
37.5°	129.2	81.7	40.2	0.0
35°	134.1	85.3	41.4	0.0
32.5°	137.7	87.8	42.7	0.0
30°	142.6	90.2	43.9	0.0
27.5°	146.3	92.6	43.9	0.0
25°	149.9	95.1	45.1	0.0
22.5°	153.6	96.3	46.3	0.0
20°	157.2	98.7	47.5	0.0
17.5°	159.7	100.0	47.5	0.0
15°	162.1	101.2	50.0	0.0
12.5°	163.3	102.4	50.0	0.0
10°	165.8	104.8	50.0	0.0
7.5°	168.2	104.8	50.0	0.0
5°	168.2	104.8	50.0	0.0
2.5°	168.2	104.8	50.0	0.0
0°	168.2	104.8	50.0	0.0

(END OF REPORT)