

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: P623812

Luminaire Tested: **IFLD-S-SA2B-722-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623812
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

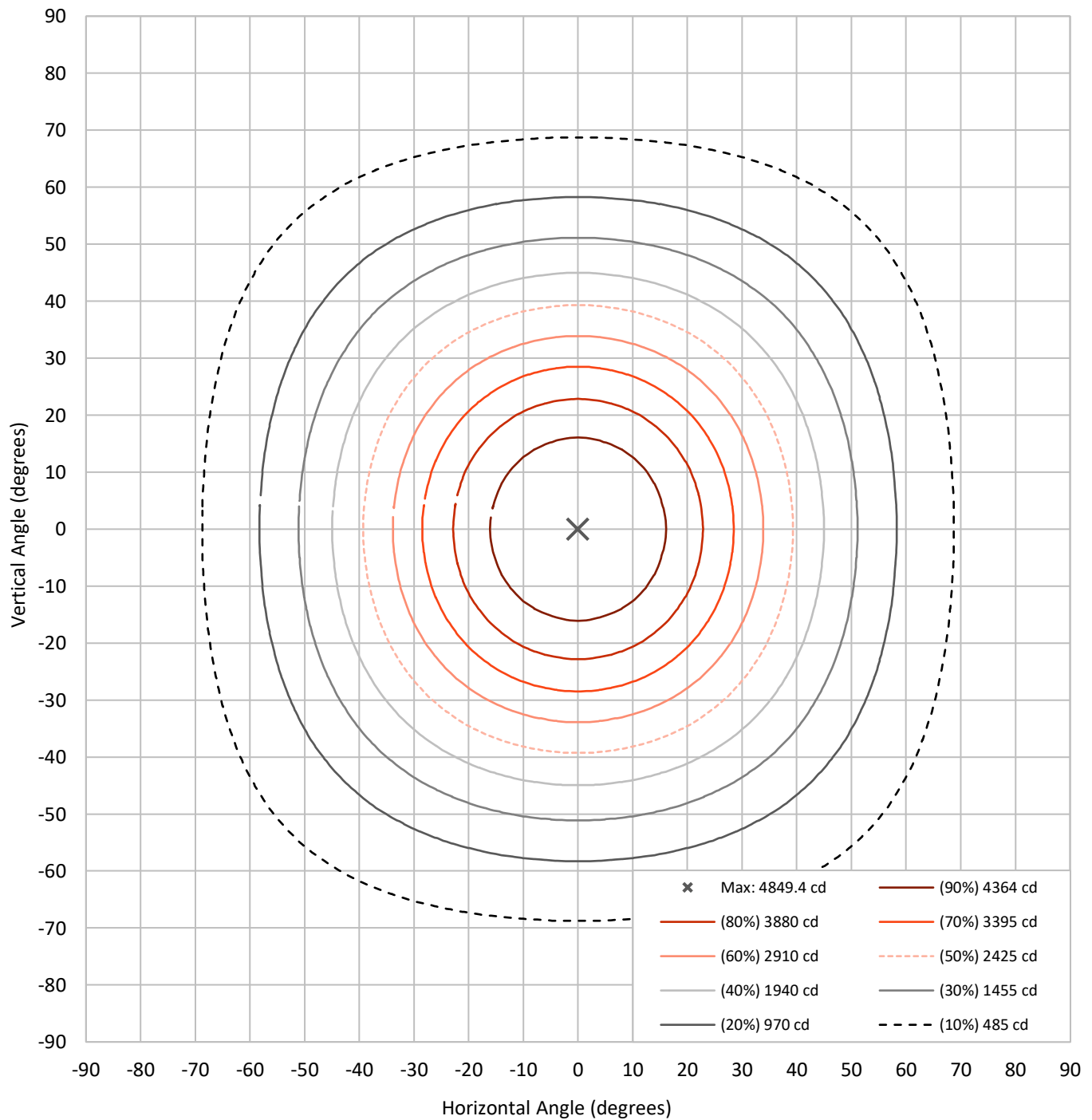
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8731.5 lumens	Max Intensity:	4849.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	106.0 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3778 lumens	Field Lumens:	6186.4 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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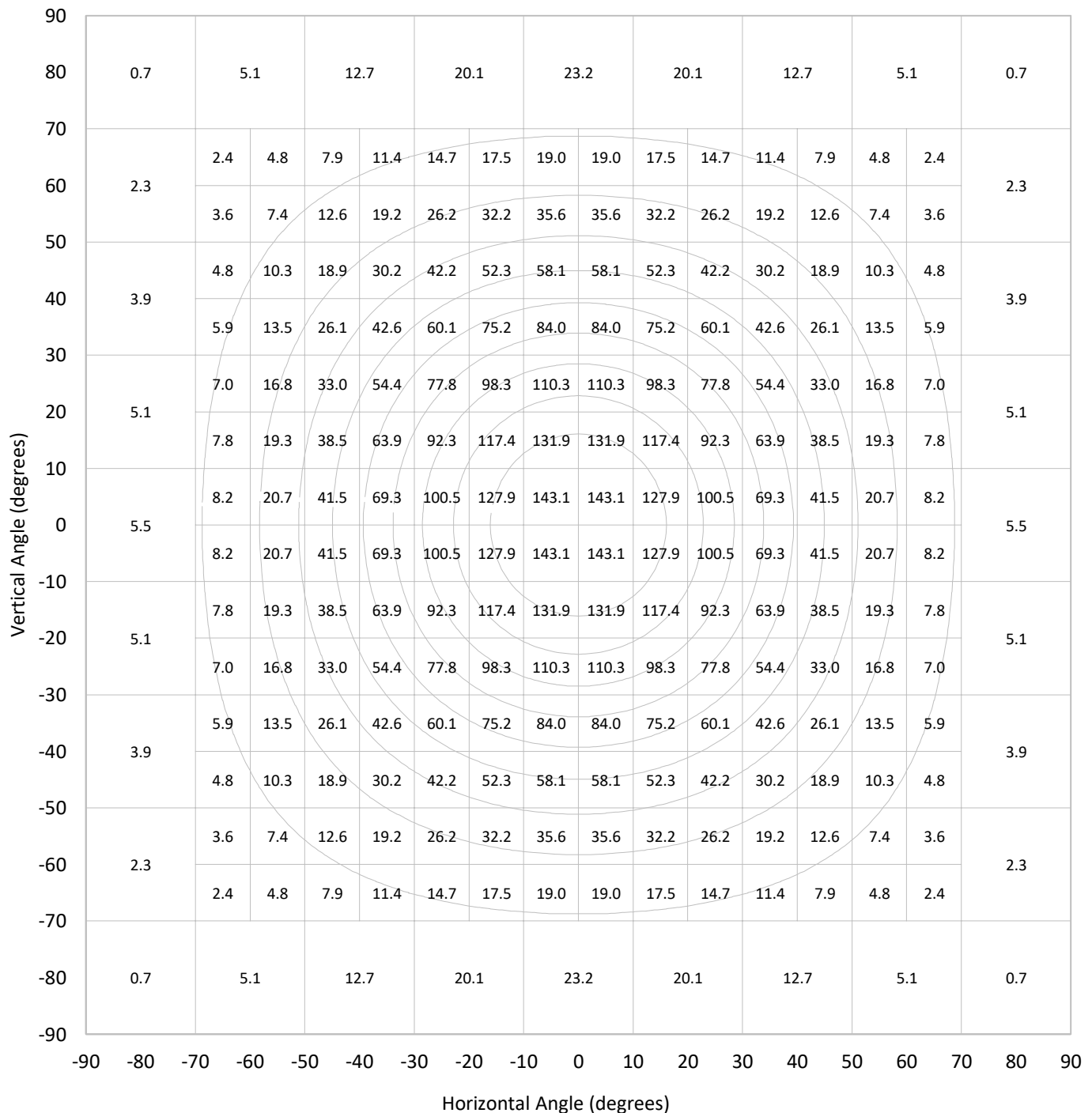
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Iso-Candela Plot



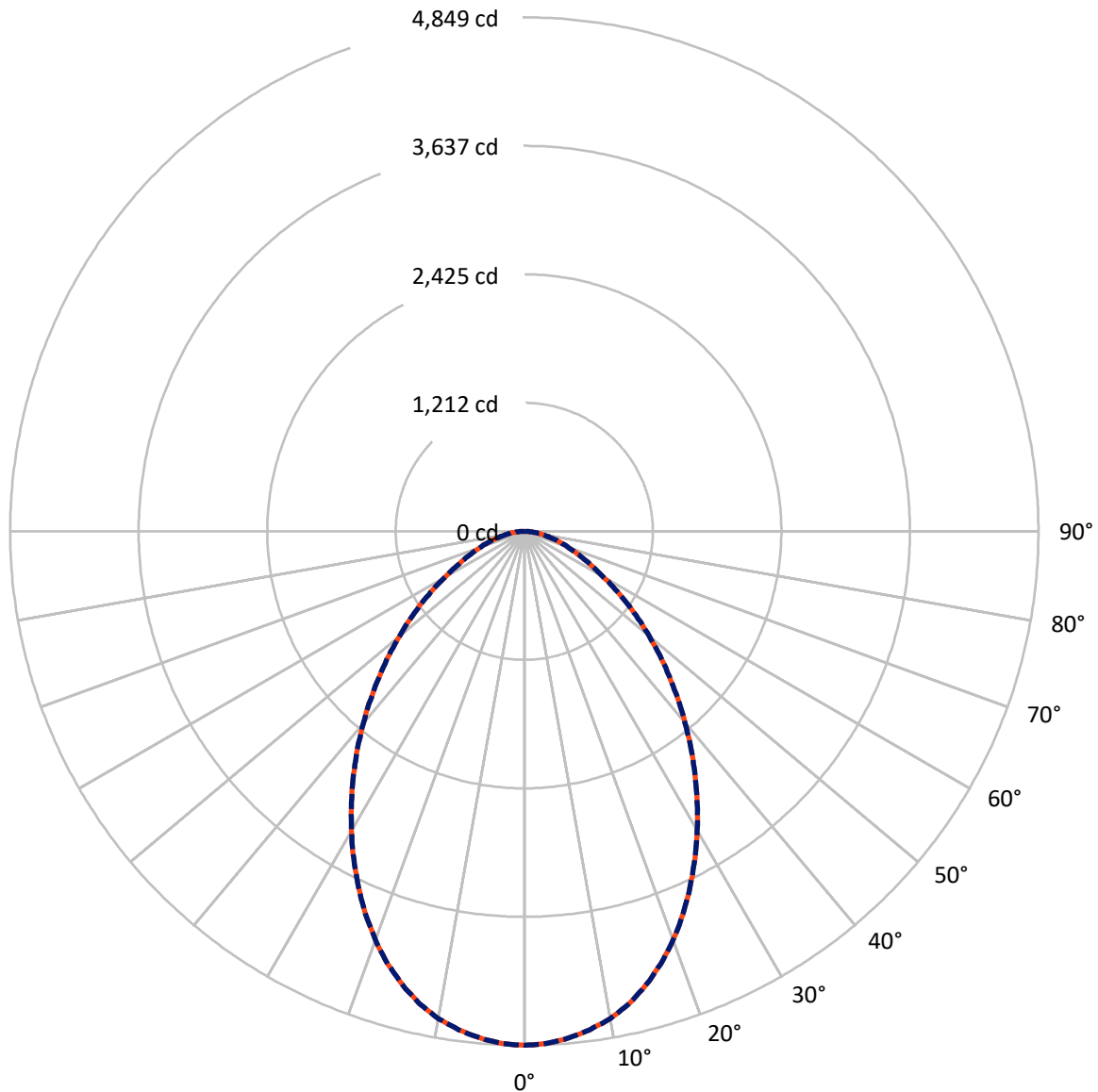
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Lumen Table



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Luminous Intensity Polar Plot

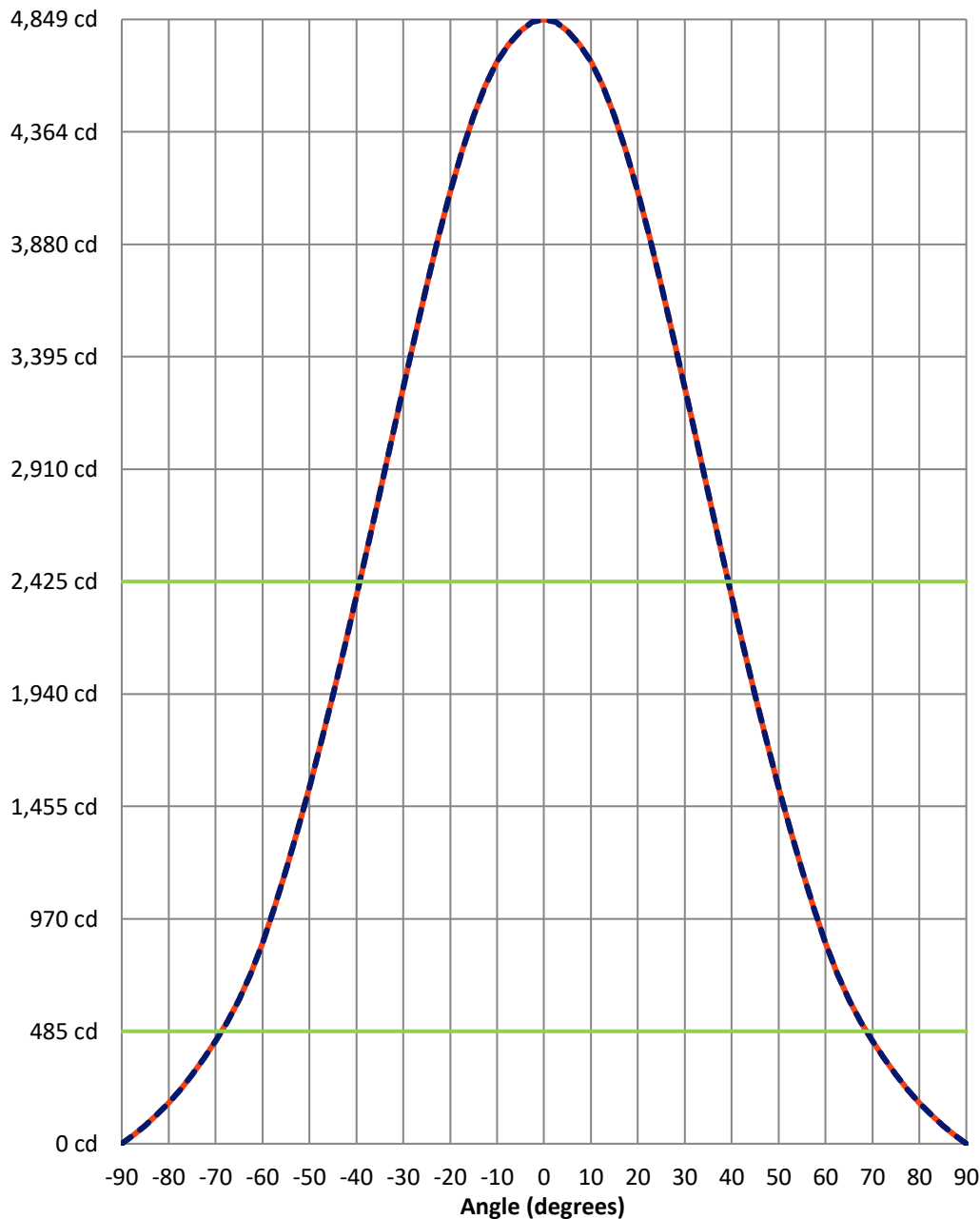


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 3778
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 6186.4
Efficiency: 70.9%

Spill:

Lumens: 2545.1
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°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	35.5	35.5	34.6	33.7
85°	78.3	78.3	78.3	78.3	78.3	76.5	75.6	74.6	73.7	71.9	71.0
82.5°	125.6	125.6	125.6	125.6	123.8	122.0	121.1	119.3	117.4	114.7	112.0
80°	175.7	175.7	175.7	175.7	173.0	171.1	168.4	166.6	163.9	160.2	156.6
77.5°	233.0	233.0	233.0	230.3	228.5	225.8	223.0	219.4	215.8	211.2	205.7
75°	297.7	297.7	297.7	294.0	291.3	288.6	284.0	279.5	274.0	267.6	260.4
72.5°	367.8	367.8	367.8	363.2	360.5	355.9	350.5	344.1	337.7	329.5	320.4
70°	443.3	443.3	443.3	437.9	433.3	428.8	421.5	414.2	405.1	396.0	385.1
67.5°	525.3	525.3	525.3	518.9	513.4	507.1	498.9	489.8	478.8	466.1	453.4
65°	620.9	620.9	617.2	611.8	605.4	596.3	586.3	573.5	559.9	543.5	526.2
62.5°	733.7	733.7	728.3	721.9	713.7	701.9	688.2	671.8	652.7	631.8	610.8
60°	864.8	864.8	858.5	850.3	838.4	823.9	805.7	784.7	761.1	734.7	709.2
57.5°	1016.0	1016.0	1007.8	996.8	982.3	964.1	941.3	914.9	884.9	852.1	820.2
55°	1179.8	1179.8	1169.8	1157.1	1139.8	1117.9	1090.6	1059.6	1023.2	985.9	944.9
52.5°	1353.7	1353.7	1341.9	1327.3	1307.3	1281.8	1250.8	1214.4	1172.5	1128.8	1080.6
50°	1536.7	1536.7	1523.0	1506.6	1483.9	1453.8	1418.3	1376.5	1330.0	1279.0	1223.5
47.5°	1732.4	1732.4	1716.9	1697.8	1670.5	1635.9	1594.0	1545.8	1493.0	1435.6	1372.8
45°	1933.6	1933.6	1916.3	1894.4	1864.4	1825.3	1778.8	1732.4	1665.0	1598.6	1525.7
42.5°	2143.0	2143.0	2122.9	2098.4	2063.8	2021.0	1968.2	1908.1	1841.6	1767.0	1687.8
40°	2360.5	2360.5	2337.8	2309.6	2271.3	2222.2	2163.0	2095.6	2021.0	1938.1	1850.7
37.5°	2582.7	2582.7	2557.2	2526.2	2483.4	2428.8	2362.4	2287.7	2204.0	2112.0	2015.5
35°	2806.6	2806.6	2778.4	2744.7	2697.4	2637.3	2565.4	2482.5	2389.7	2289.5	2181.2
32.5°	3035.1	3035.1	3004.2	2965.9	2912.2	2845.8	2766.6	2676.4	2582.7	2466.1	2347.8
30°	3260.9	3260.9	3227.2	3185.3	3128.0	3055.1	2968.7	2869.4	2759.3	2640.0	2512.6
27.5°	3483.0	3473.9	3445.7	3401.1	3338.3	3260.9	3167.1	3059.7	2940.4	2809.3	2672.8
25°	3701.5	3691.5	3660.5	3611.4	3544.0	3459.3	3358.3	3243.6	3115.2	2976.8	2827.5
22.5°	3910.9	3899.9	3867.2	3814.4	3742.5	3650.5	3542.2	3419.3	3282.7	3134.3	2976.8
20°	4104.8	4092.9	4059.3	4003.7	3929.1	3831.7	3717.0	3585.0	3439.3	3282.7	3115.2
17.5°	4279.6	4267.7	4232.2	4174.9	4104.8	3996.4	3878.1	3738.8	3585.0	3419.3	3243.6
15°	4433.4	4420.7	4384.2	4326.9	4246.8	4144.8	4020.1	3878.1	3717.0	3542.2	3358.3
12.5°	4564.5	4551.8	4514.4	4457.1	4374.2	4272.3	4144.8	3996.4	3831.7	3650.5	3459.3
10°	4668.3	4655.5	4620.0	4565.4	4479.8	4374.2	4246.8	4104.8	3929.1	3742.5	3544.0
7.5°	4742.9	4731.1	4698.3	4643.7	4565.4	4457.1	4326.9	4174.9	4003.7	3814.4	3611.4
5°	4799.4	4785.7	4752.9	4698.3	4620.0	4514.4	4384.2	4232.2	4059.3	3867.2	3660.5
2.5°	4838.5	4822.1	4785.7	4731.1	4655.5	4551.8	4420.7	4267.7	4092.9	3899.9	3691.5
0°	4849.4	4838.5	4799.4	4742.9	4668.3	4564.5	4433.4	4279.6	4104.8	3910.9	3701.5

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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°	32.8	32.8	31.9	31.0	30.0	28.2	27.3	26.4	25.5	23.7	22.8
85°	69.2	67.4	65.5	63.7	61.0	59.2	56.4	54.6	51.9	49.2	46.4
82.5°	109.2	106.5	102.9	100.1	96.5	91.9	88.3	83.8	79.2	75.6	71.0
80°	152.9	148.4	143.8	139.3	133.8	128.4	122.9	117.4	111.1	104.7	98.3
77.5°	200.3	193.9	187.5	180.2	173.9	166.6	159.3	152.0	143.8	135.6	127.4
75°	253.1	244.9	235.8	226.7	218.5	208.5	198.5	188.4	177.5	167.5	156.6
72.5°	310.4	300.4	289.5	278.6	266.7	254.0	241.2	227.6	214.8	202.1	188.4
70°	372.3	360.5	346.8	333.2	318.6	303.1	287.7	271.3	254.9	238.5	222.1
67.5°	438.8	424.2	407.8	391.5	373.2	355.0	336.8	317.7	297.7	277.7	258.5
65°	509.8	491.6	472.5	451.5	430.6	409.7	387.8	365.1	342.3	318.6	297.7
62.5°	589.0	566.2	541.7	516.2	492.5	467.0	443.3	415.1	387.8	361.4	335.0
60°	680.9	650.9	620.9	589.0	559.0	526.2	497.1	466.1	435.1	405.1	374.2
57.5°	783.8	745.6	709.2	670.9	630.9	594.5	557.1	519.8	485.2	449.7	416.0
55°	900.3	853.9	808.4	761.1	714.6	669.1	621.8	579.9	537.1	497.1	457.9
52.5°	1027.8	975.0	918.5	864.8	805.7	749.2	696.4	643.6	593.5	545.3	500.7
50°	1164.3	1102.4	1037.8	972.3	904.9	838.4	774.7	712.8	654.5	598.1	545.3
47.5°	1306.4	1236.3	1162.5	1087.9	1016.0	934.9	858.5	788.4	718.3	654.5	593.5
45°	1452.0	1372.8	1291.8	1207.1	1122.5	1035.1	950.4	864.8	788.4	712.8	643.6
42.5°	1602.2	1513.0	1422.9	1329.1	1235.3	1139.8	1044.2	950.4	858.5	774.7	696.4
40°	1757.0	1658.7	1555.8	1453.8	1353.7	1244.4	1139.8	1035.1	934.9	838.4	749.2
37.5°	1911.7	1804.3	1693.3	1578.5	1463.8	1353.7	1235.3	1122.5	1016.0	904.9	805.7
35°	2067.4	1949.1	1828.9	1704.2	1578.5	1453.8	1329.1	1207.1	1087.9	972.3	864.8
32.5°	2224.0	2094.7	1961.8	1828.9	1693.3	1555.8	1422.9	1291.8	1162.5	1037.8	918.5
30°	2377.8	2237.6	2094.7	1949.1	1804.3	1658.7	1513.0	1372.8	1236.3	1102.4	975.0
27.5°	2528.0	2377.8	2224.0	2067.4	1911.7	1757.0	1602.2	1452.0	1306.4	1164.3	1027.8
25°	2672.8	2512.6	2347.8	2181.2	2015.5	1850.7	1687.8	1525.7	1372.8	1223.5	1080.6
22.5°	2809.3	2640.0	2466.1	2289.5	2112.0	1938.1	1767.0	1598.6	1435.6	1279.0	1128.8
20°	2940.4	2759.3	2582.7	2389.7	2204.0	2021.0	1841.6	1665.0	1493.0	1330.0	1172.5
17.5°	3059.7	2869.4	2676.4	2482.5	2287.7	2095.6	1908.1	1732.4	1545.8	1376.5	1214.4
15°	3167.1	2968.7	2766.6	2565.4	2362.4	2163.0	1968.2	1778.8	1594.0	1418.3	1250.8
12.5°	3260.9	3055.1	2845.8	2637.3	2428.8	2222.2	2021.0	1825.3	1635.9	1453.8	1281.8
10°	3338.3	3128.0	2912.2	2697.4	2483.4	2271.3	2063.8	1864.4	1670.5	1483.9	1307.3
7.5°	3401.1	3185.3	2965.9	2744.7	2526.2	2309.6	2098.4	1894.4	1697.8	1506.6	1327.3
5°	3445.7	3227.2	3004.2	2778.4	2557.2	2337.8	2122.9	1916.3	1716.9	1523.0	1341.9
2.5°	3473.9	3260.9	3035.1	2806.6	2582.7	2360.5	2143.0	1933.6	1732.4	1536.7	1353.7
0°	3483.0	3260.9	3035.1	2806.6	2582.7	2360.5	2143.0	1933.6	1732.4	1536.7	1353.7

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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°	21.8	20.0	18.2	17.3	15.5	14.6	12.7	10.9	10.0	8.2	6.4
85°	43.7	40.1	37.3	34.6	31.9	28.2	25.5	22.8	19.1	16.4	12.7
82.5°	66.5	61.9	57.4	52.8	48.2	43.7	38.2	33.7	29.1	24.6	19.1
80°	91.9	84.7	78.3	71.9	65.5	59.2	51.9	45.5	38.2	31.9	25.5
77.5°	118.3	110.2	101.0	91.9	82.8	74.6	65.5	57.4	49.2	40.1	31.9
75°	146.6	135.6	125.6	113.8	102.9	91.0	80.1	69.2	59.2	49.2	38.2
72.5°	175.7	162.0	148.4	135.6	122.0	108.3	95.6	81.9	69.2	57.4	45.5
70°	205.7	189.4	173.0	157.5	142.0	125.6	111.1	95.6	80.1	65.5	51.9
67.5°	237.6	218.5	199.4	179.3	162.0	143.8	125.6	108.3	91.0	74.6	59.2
65°	272.2	249.4	225.8	204.8	182.1	162.0	142.0	122.0	102.9	82.8	65.5
62.5°	307.7	281.3	254.9	228.5	204.8	179.3	157.5	135.6	113.8	91.9	71.9
60°	344.1	314.1	284.0	254.9	225.8	199.4	173.0	148.4	125.6	101.0	78.3
57.5°	381.4	347.8	314.1	281.3	249.4	218.5	189.4	162.0	135.6	110.2	84.7
55°	419.7	381.4	344.1	307.7	272.2	237.6	205.7	175.7	146.6	118.3	91.9
52.5°	457.9	416.0	374.2	335.0	297.7	258.5	222.1	188.4	156.6	127.4	98.3
50°	497.1	449.7	405.1	361.4	318.6	277.7	238.5	202.1	167.5	135.6	104.7
47.5°	537.1	485.2	435.1	387.8	342.3	297.7	254.9	214.8	177.5	143.8	111.1
45°	579.9	519.8	466.1	415.1	365.1	317.7	271.3	227.6	188.4	152.0	117.4
42.5°	621.8	557.1	497.1	443.3	387.8	336.8	287.7	241.2	198.5	159.3	122.9
40°	669.1	594.5	526.2	467.0	409.7	355.0	303.1	254.0	208.5	166.6	128.4
37.5°	714.6	630.9	559.0	492.5	430.6	373.2	318.6	266.7	218.5	173.9	133.8
35°	761.1	670.9	589.0	516.2	451.5	391.5	333.2	278.6	226.7	180.2	139.3
32.5°	808.4	709.2	620.9	541.7	472.5	407.8	346.8	289.5	235.8	187.5	143.8
30°	853.9	745.6	650.9	566.2	491.6	424.2	360.5	300.4	244.9	193.9	148.4
27.5°	900.3	783.8	680.9	589.0	509.8	438.8	372.3	310.4	253.1	200.3	152.9
25°	944.9	820.2	709.2	610.8	526.2	453.4	385.1	320.4	260.4	205.7	156.6
22.5°	985.9	852.1	734.7	631.8	543.5	466.1	396.0	329.5	267.6	211.2	160.2
20°	1023.2	884.9	761.1	652.7	559.9	478.8	405.1	337.7	274.0	215.8	163.9
17.5°	1059.6	914.9	784.7	671.8	573.5	489.8	414.2	344.1	279.5	219.4	166.6
15°	1090.6	941.3	805.7	688.2	586.3	498.9	421.5	350.5	284.0	223.0	168.4
12.5°	1117.9	964.1	823.9	701.9	596.3	507.1	428.8	355.9	288.6	225.8	171.1
10°	1139.8	982.3	838.4	713.7	605.4	513.4	433.3	360.5	291.3	228.5	173.0
7.5°	1157.1	996.8	850.3	721.9	611.8	518.9	437.9	363.2	294.0	230.3	175.7
5°	1169.8	1007.8	858.5	728.3	617.2	525.3	443.3	367.8	297.7	233.0	175.7
2.5°	1179.8	1016.0	864.8	733.7	620.9	525.3	443.3	367.8	297.7	233.0	175.7
0°	1179.8	1016.0	864.8	733.7	620.9	525.3	443.3	367.8	297.7	233.0	175.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.6	3.6	1.8	0.0
85°	10.0	6.4	3.6	0.0
82.5°	14.6	10.0	4.6	0.0
80°	19.1	12.7	6.4	0.0
77.5°	24.6	16.4	8.2	0.0
75°	29.1	19.1	10.0	0.0
72.5°	33.7	22.8	10.9	0.0
70°	38.2	25.5	12.7	0.0
67.5°	43.7	28.2	14.6	0.0
65°	48.2	31.9	15.5	0.0
62.5°	52.8	34.6	17.3	0.0
60°	57.4	37.3	18.2	0.0
57.5°	61.9	40.1	20.0	0.0
55°	66.5	43.7	21.8	0.0
52.5°	71.0	46.4	22.8	0.0
50°	75.6	49.2	23.7	0.0
47.5°	79.2	51.9	25.5	0.0
45°	83.8	54.6	26.4	0.0
42.5°	88.3	56.4	27.3	0.0
40°	91.9	59.2	28.2	0.0
37.5°	96.5	61.0	30.0	0.0
35°	100.1	63.7	31.0	0.0
32.5°	102.9	65.5	31.9	0.0
30°	106.5	67.4	32.8	0.0
27.5°	109.2	69.2	32.8	0.0
25°	112.0	71.0	33.7	0.0
22.5°	114.7	71.9	34.6	0.0
20°	117.4	73.7	35.5	0.0
17.5°	119.3	74.6	35.5	0.0
15°	121.1	75.6	37.3	0.0
12.5°	122.0	76.5	37.3	0.0
10°	123.8	78.3	37.3	0.0
7.5°	125.6	78.3	37.3	0.0
5°	125.6	78.3	37.3	0.0
2.5°	125.6	78.3	37.3	0.0
0°	125.6	78.3	37.3	0.0

(END OF REPORT)