

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: P624525

Luminaire Tested: **IFLD-S-SA2B-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624525
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-930-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

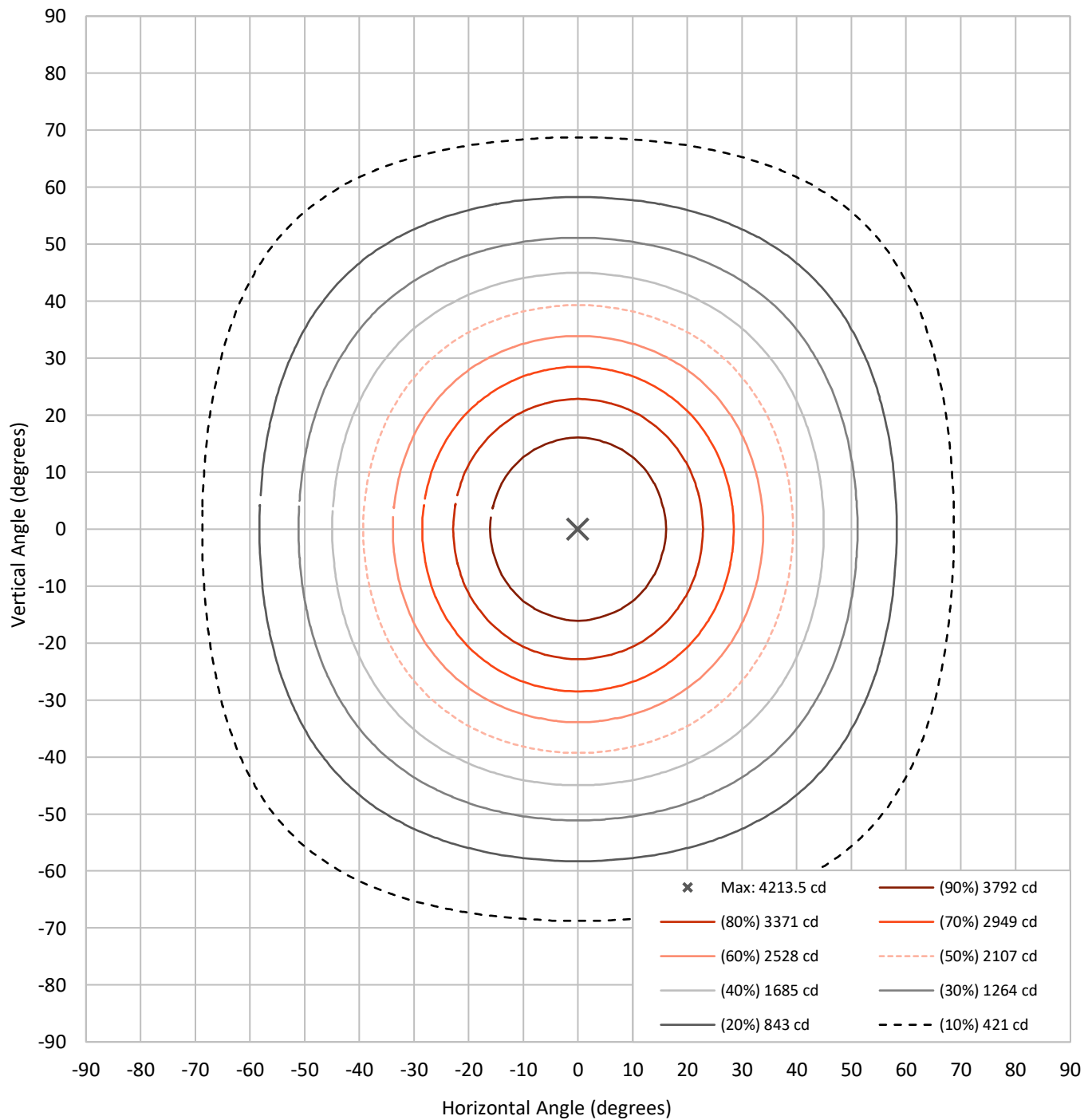
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7586.4 lumens	Max Intensity:	4213.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	92.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	3282.6 lumens	Field Lumens:	5375.1 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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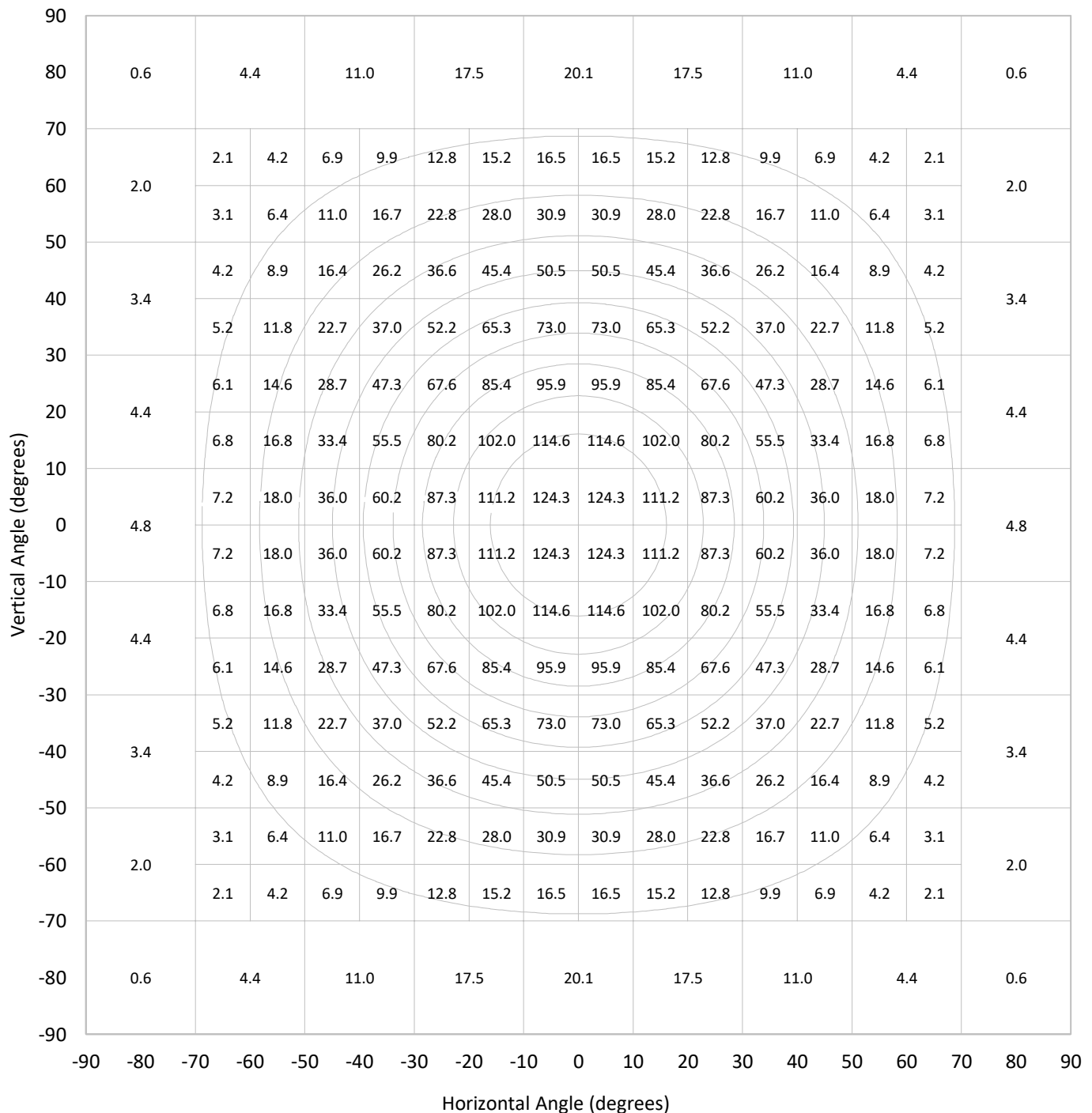
Iso-Candela Plot



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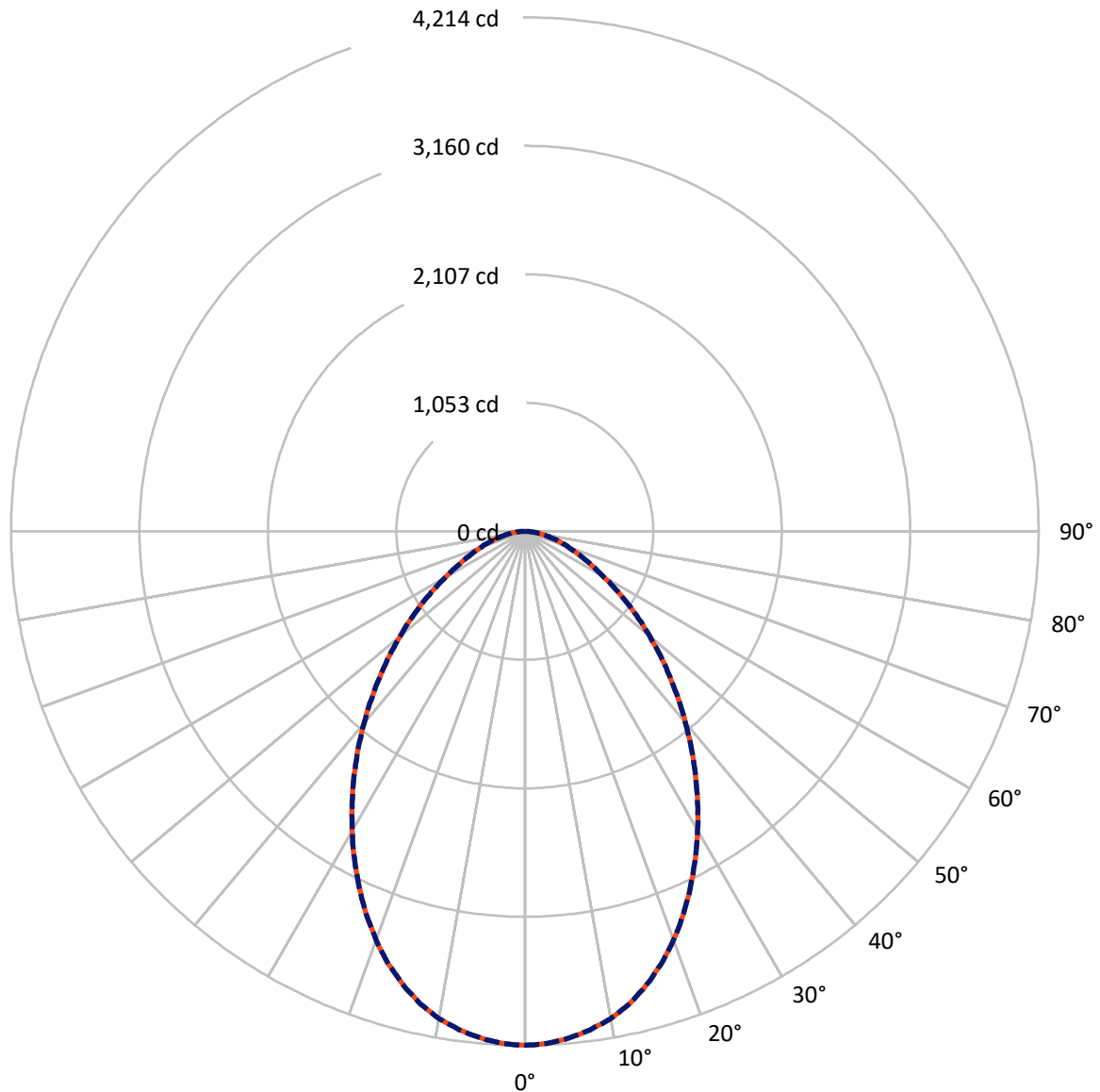
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Lumen Table



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Luminous Intensity Polar Plot

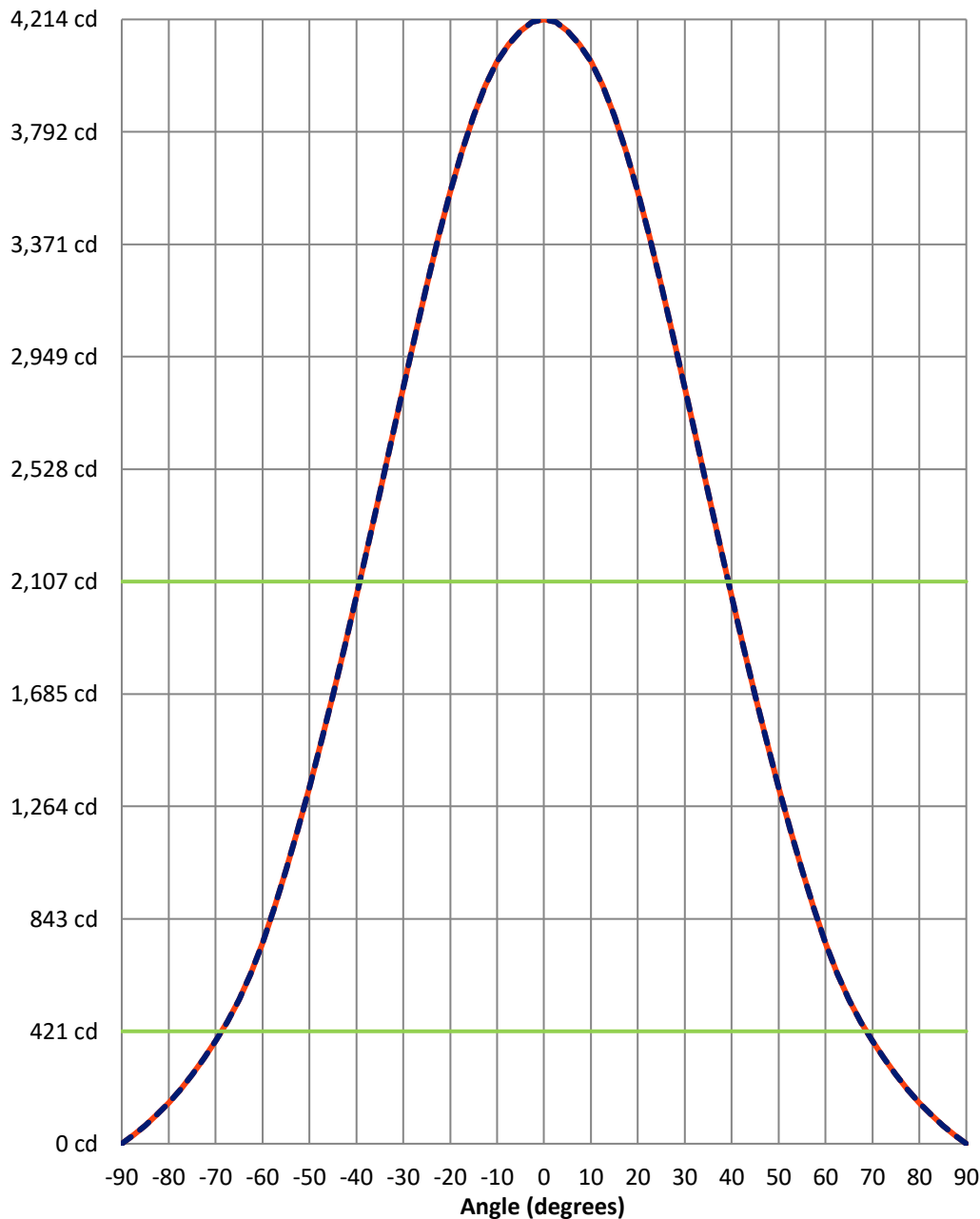


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 3282.6
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 5375.1
Efficiency: 70.9%

Spill:

Lumens: 2211.3
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°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	30.8	30.8	30.1	29.3
85°	68.0	68.0	68.0	68.0	68.0	66.4	65.7	64.9	64.1	62.5	61.7
82.5°	109.2	109.2	109.2	109.2	107.6	106.0	105.2	103.6	102.0	99.7	97.3
80°	152.7	152.7	152.7	152.7	150.3	148.7	146.3	144.7	142.4	139.2	136.0
77.5°	202.5	202.5	202.5	200.1	198.5	196.2	193.8	190.6	187.5	183.5	178.8
75°	258.6	258.6	258.6	255.5	253.1	250.7	246.8	242.8	238.1	232.5	226.2
72.5°	319.5	319.5	319.5	315.6	313.2	309.3	304.5	299.0	293.4	286.3	278.4
70°	385.2	385.2	385.2	380.5	376.5	372.5	366.2	359.9	352.0	344.1	334.6
67.5°	456.4	456.4	456.4	450.8	446.1	440.6	433.4	425.5	416.0	405.0	393.9
65°	539.4	539.4	536.3	531.5	526.0	518.1	509.4	498.3	486.4	472.2	457.2
62.5°	637.5	637.5	632.8	627.2	620.1	609.8	598.0	583.7	567.1	548.9	530.7
60°	751.4	751.4	745.9	738.8	728.5	715.8	700.0	681.8	661.2	638.3	616.2
57.5°	882.7	882.7	875.6	866.1	853.5	837.6	817.9	794.9	768.8	740.3	712.7
55°	1025.1	1025.1	1016.4	1005.3	990.3	971.3	947.6	920.7	889.0	856.6	821.0
52.5°	1176.2	1176.2	1165.9	1153.2	1135.8	1113.7	1086.8	1055.1	1018.8	980.8	938.9
50°	1335.1	1335.1	1323.3	1309.0	1289.3	1263.2	1232.3	1195.9	1155.6	1111.3	1063.1
47.5°	1505.2	1505.2	1491.8	1475.1	1451.4	1421.4	1385.0	1343.1	1297.2	1247.4	1192.8
45°	1680.0	1680.0	1665.0	1646.0	1619.9	1585.9	1545.5	1505.2	1446.7	1388.9	1325.7
42.5°	1861.9	1861.9	1844.5	1823.2	1793.1	1755.9	1710.1	1657.9	1600.1	1535.3	1466.4
40°	2051.0	2051.0	2031.2	2006.7	1973.5	1930.7	1879.3	1820.8	1755.9	1684.0	1608.0
37.5°	2244.0	2244.0	2221.8	2194.9	2157.8	2110.3	2052.6	1987.7	1914.9	1835.0	1751.2
35°	2438.5	2438.5	2414.0	2384.8	2343.6	2291.4	2228.9	2157.0	2076.3	1989.3	1895.2
32.5°	2637.1	2637.1	2610.2	2577.0	2530.3	2472.6	2403.7	2325.4	2244.0	2142.7	2039.9
30°	2833.2	2833.2	2804.0	2767.6	2717.8	2654.5	2579.3	2493.1	2397.4	2293.8	2183.1
27.5°	3026.2	3018.3	2993.8	2955.0	2900.5	2833.2	2751.8	2658.4	2554.8	2440.9	2322.3
25°	3216.1	3207.4	3180.5	3137.8	3079.2	3005.7	2917.9	2818.2	2706.7	2586.5	2456.7
22.5°	3398.0	3388.5	3360.0	3314.1	3251.7	3171.8	3077.6	2970.9	2852.2	2723.3	2586.5
20°	3566.5	3556.2	3526.9	3478.7	3413.8	3329.2	3229.5	3114.8	2988.3	2852.2	2706.7
17.5°	3718.3	3708.0	3677.2	3627.4	3566.5	3472.3	3369.5	3248.5	3114.8	2970.9	2818.2
15°	3852.0	3840.9	3809.3	3759.5	3689.8	3601.3	3492.9	3369.5	3229.5	3077.6	2917.9
12.5°	3965.9	3954.8	3922.4	3872.6	3800.6	3712.0	3601.3	3472.3	3329.2	3171.8	3005.7
10°	4056.1	4045.0	4014.1	3966.7	3892.3	3800.6	3689.8	3566.5	3413.8	3251.7	3079.2
7.5°	4120.9	4110.6	4082.2	4034.7	3966.7	3872.6	3759.5	3627.4	3478.7	3314.1	3137.8
5°	4170.0	4158.1	4129.6	4082.2	4014.1	3922.4	3809.3	3677.2	3526.9	3360.0	3180.5
2.5°	4204.0	4189.7	4158.1	4110.6	4045.0	3954.8	3840.9	3708.0	3556.2	3388.5	3207.4
0°	4213.5	4204.0	4170.0	4120.9	4056.1	3965.9	3852.0	3718.3	3566.5	3398.0	3216.1

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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°	28.5	28.5	27.7	26.9	26.1	24.5	23.7	22.9	22.1	20.6	19.8
85°	60.1	58.5	56.9	55.4	53.0	51.4	49.0	47.5	45.1	42.7	40.3
82.5°	94.9	92.5	89.4	87.0	83.8	79.9	76.7	72.8	68.8	65.7	61.7
80°	132.9	128.9	125.0	121.0	116.3	111.5	106.8	102.0	96.5	91.0	85.4
77.5°	174.0	168.5	162.9	156.6	151.1	144.7	138.4	132.1	125.0	117.9	110.7
75°	219.9	212.8	204.9	197.0	189.8	181.1	172.4	163.7	154.2	145.5	136.0
72.5°	269.7	261.0	251.5	242.0	231.8	220.7	209.6	197.7	186.7	175.6	163.7
70°	323.5	313.2	301.4	289.5	276.8	263.4	249.9	235.7	221.5	207.2	193.0
67.5°	381.2	368.6	354.4	340.1	324.3	308.5	292.7	276.0	258.6	241.2	224.6
65°	442.9	427.1	410.5	392.3	374.1	355.9	337.0	317.2	297.4	276.8	258.6
62.5°	511.8	492.0	470.6	448.5	427.9	405.8	385.2	360.7	337.0	314.0	291.1
60°	591.6	565.5	539.4	511.8	485.7	457.2	431.9	405.0	378.1	352.0	325.1
57.5°	681.0	647.8	616.2	582.9	548.1	516.5	484.1	451.6	421.6	390.7	361.5
55°	782.3	741.9	702.4	661.2	620.9	581.4	540.2	503.8	466.7	431.9	397.9
52.5°	893.0	847.1	798.1	751.4	700.0	651.0	605.1	559.2	515.7	473.8	435.0
50°	1011.6	957.9	901.7	844.7	786.2	728.5	673.1	619.3	568.7	519.7	473.8
47.5°	1135.0	1074.1	1010.1	945.2	882.7	812.3	745.9	685.0	624.1	568.7	515.7
45°	1261.6	1192.8	1122.4	1048.8	975.3	899.3	825.8	751.4	685.0	619.3	559.2
42.5°	1392.1	1314.6	1236.3	1154.8	1073.3	990.3	907.2	825.8	745.9	673.1	605.1
40°	1526.6	1441.1	1351.8	1263.2	1176.2	1081.2	990.3	899.3	812.3	728.5	651.0
37.5°	1661.0	1567.7	1471.2	1371.5	1271.9	1176.2	1073.3	975.3	882.7	786.2	700.0
35°	1796.3	1693.5	1589.0	1480.7	1371.5	1263.2	1154.8	1048.8	945.2	844.7	751.4
32.5°	1932.3	1820.0	1704.5	1589.0	1471.2	1351.8	1236.3	1122.4	1010.1	901.7	798.1
30°	2066.0	1944.2	1820.0	1693.5	1567.7	1441.1	1314.6	1192.8	1074.1	957.9	847.1
27.5°	2196.5	2066.0	1932.3	1796.3	1661.0	1526.6	1392.1	1261.6	1135.0	1011.6	893.0
25°	2322.3	2183.1	2039.9	1895.2	1751.2	1608.0	1466.4	1325.7	1192.8	1063.1	938.9
22.5°	2440.9	2293.8	2142.7	1989.3	1835.0	1684.0	1535.3	1388.9	1247.4	1111.3	980.8
20°	2554.8	2397.4	2244.0	2076.3	1914.9	1755.9	1600.1	1446.7	1297.2	1155.6	1018.8
17.5°	2658.4	2493.1	2325.4	2157.0	1987.7	1820.8	1657.9	1505.2	1343.1	1195.9	1055.1
15°	2751.8	2579.3	2403.7	2228.9	2052.6	1879.3	1710.1	1545.5	1385.0	1232.3	1086.8
12.5°	2833.2	2654.5	2472.6	2291.4	2110.3	1930.7	1755.9	1585.9	1421.4	1263.2	1113.7
10°	2900.5	2717.8	2530.3	2343.6	2157.8	1973.5	1793.1	1619.9	1451.4	1289.3	1135.8
7.5°	2955.0	2767.6	2577.0	2384.8	2194.9	2006.7	1823.2	1646.0	1475.1	1309.0	1153.2
5°	2993.8	2804.0	2610.2	2414.0	2221.8	2031.2	1844.5	1665.0	1491.8	1323.3	1165.9
2.5°	3018.3	2833.2	2637.1	2438.5	2244.0	2051.0	1861.9	1680.0	1505.2	1335.1	1176.2
0°	3026.2	2833.2	2637.1	2438.5	2244.0	2051.0	1861.9	1680.0	1505.2	1335.1	1176.2

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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°	19.0	17.4	15.8	15.0	13.4	12.7	11.1	9.5	8.7	7.1	5.5
85°	38.0	34.8	32.4	30.1	27.7	24.5	22.1	19.8	16.6	14.2	11.1
82.5°	57.7	53.8	49.8	45.9	41.9	38.0	33.2	29.3	25.3	21.4	16.6
80°	79.9	73.6	68.0	62.5	56.9	51.4	45.1	39.5	33.2	27.7	22.1
77.5°	102.8	95.7	87.8	79.9	72.0	64.9	56.9	49.8	42.7	34.8	27.7
75°	127.3	117.9	109.2	98.9	89.4	79.1	69.6	60.1	51.4	42.7	33.2
72.5°	152.7	140.8	128.9	117.9	106.0	94.1	83.1	71.2	60.1	49.8	39.5
70°	178.8	164.5	150.3	136.8	123.4	109.2	96.5	83.1	69.6	56.9	45.1
67.5°	206.4	189.8	173.2	155.8	140.8	125.0	109.2	94.1	79.1	64.9	51.4
65°	236.5	216.7	196.2	178.0	158.2	140.8	123.4	106.0	89.4	72.0	56.9
62.5°	267.3	244.4	221.5	198.5	178.0	155.8	136.8	117.9	98.9	79.9	62.5
60°	299.0	272.9	246.8	221.5	196.2	173.2	150.3	128.9	109.2	87.8	68.0
57.5°	331.4	302.1	272.9	244.4	216.7	189.8	164.5	140.8	117.9	95.7	73.6
55°	364.6	331.4	299.0	267.3	236.5	206.4	178.8	152.7	127.3	102.8	79.9
52.5°	397.9	361.5	325.1	291.1	258.6	224.6	193.0	163.7	136.0	110.7	85.4
50°	431.9	390.7	352.0	314.0	276.8	241.2	207.2	175.6	145.5	117.9	91.0
47.5°	466.7	421.6	378.1	337.0	297.4	258.6	221.5	186.7	154.2	125.0	96.5
45°	503.8	451.6	405.0	360.7	317.2	276.0	235.7	197.7	163.7	132.1	102.0
42.5°	540.2	484.1	431.9	385.2	337.0	292.7	249.9	209.6	172.4	138.4	106.8
40°	581.4	516.5	457.2	405.8	355.9	308.5	263.4	220.7	181.1	144.7	111.5
37.5°	620.9	548.1	485.7	427.9	374.1	324.3	276.8	231.8	189.8	151.1	116.3
35°	661.2	582.9	511.8	448.5	392.3	340.1	289.5	242.0	197.0	156.6	121.0
32.5°	702.4	616.2	539.4	470.6	410.5	354.4	301.4	251.5	204.9	162.9	125.0
30°	741.9	647.8	565.5	492.0	427.1	368.6	313.2	261.0	212.8	168.5	128.9
27.5°	782.3	681.0	591.6	511.8	442.9	381.2	323.5	269.7	219.9	174.0	132.9
25°	821.0	712.7	616.2	530.7	457.2	393.9	334.6	278.4	226.2	178.8	136.0
22.5°	856.6	740.3	638.3	548.9	472.2	405.0	344.1	286.3	232.5	183.5	139.2
20°	889.0	768.8	661.2	567.1	486.4	416.0	352.0	293.4	238.1	187.5	142.4
17.5°	920.7	794.9	681.8	583.7	498.3	425.5	359.9	299.0	242.8	190.6	144.7
15°	947.6	817.9	700.0	598.0	509.4	433.4	366.2	304.5	246.8	193.8	146.3
12.5°	971.3	837.6	715.8	609.8	518.1	440.6	372.5	309.3	250.7	196.2	148.7
10°	990.3	853.5	728.5	620.1	526.0	446.1	376.5	313.2	253.1	198.5	150.3
7.5°	1005.3	866.1	738.8	627.2	531.5	450.8	380.5	315.6	255.5	200.1	152.7
5°	1016.4	875.6	745.9	632.8	536.3	456.4	385.2	319.5	258.6	202.5	152.7
2.5°	1025.1	882.7	751.4	637.5	539.4	456.4	385.2	319.5	258.6	202.5	152.7
0°	1025.1	882.7	751.4	637.5	539.4	456.4	385.2	319.5	258.6	202.5	152.7

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.0	3.2	1.6	0.0
85°	8.7	5.5	3.2	0.0
82.5°	12.7	8.7	4.0	0.0
80°	16.6	11.1	5.5	0.0
77.5°	21.4	14.2	7.1	0.0
75°	25.3	16.6	8.7	0.0
72.5°	29.3	19.8	9.5	0.0
70°	33.2	22.1	11.1	0.0
67.5°	38.0	24.5	12.7	0.0
65°	41.9	27.7	13.4	0.0
62.5°	45.9	30.1	15.0	0.0
60°	49.8	32.4	15.8	0.0
57.5°	53.8	34.8	17.4	0.0
55°	57.7	38.0	19.0	0.0
52.5°	61.7	40.3	19.8	0.0
50°	65.7	42.7	20.6	0.0
47.5°	68.8	45.1	22.1	0.0
45°	72.8	47.5	22.9	0.0
42.5°	76.7	49.0	23.7	0.0
40°	79.9	51.4	24.5	0.0
37.5°	83.8	53.0	26.1	0.0
35°	87.0	55.4	26.9	0.0
32.5°	89.4	56.9	27.7	0.0
30°	92.5	58.5	28.5	0.0
27.5°	94.9	60.1	28.5	0.0
25°	97.3	61.7	29.3	0.0
22.5°	99.7	62.5	30.1	0.0
20°	102.0	64.1	30.8	0.0
17.5°	103.6	64.9	30.8	0.0
15°	105.2	65.7	32.4	0.0
12.5°	106.0	66.4	32.4	0.0
10°	107.6	68.0	32.4	0.0
7.5°	109.2	68.0	32.4	0.0
5°	109.2	68.0	32.4	0.0
2.5°	109.2	68.0	32.4	0.0
0°	109.2	68.0	32.4	0.0

(END OF REPORT)