

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: P623660

Luminaire Tested: **IFLD-L-SA7D-735-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623660
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	50164 lumens	Max Intensity:	61302.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	118.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	24932.8 lumens	Field Lumens:	32425.8 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

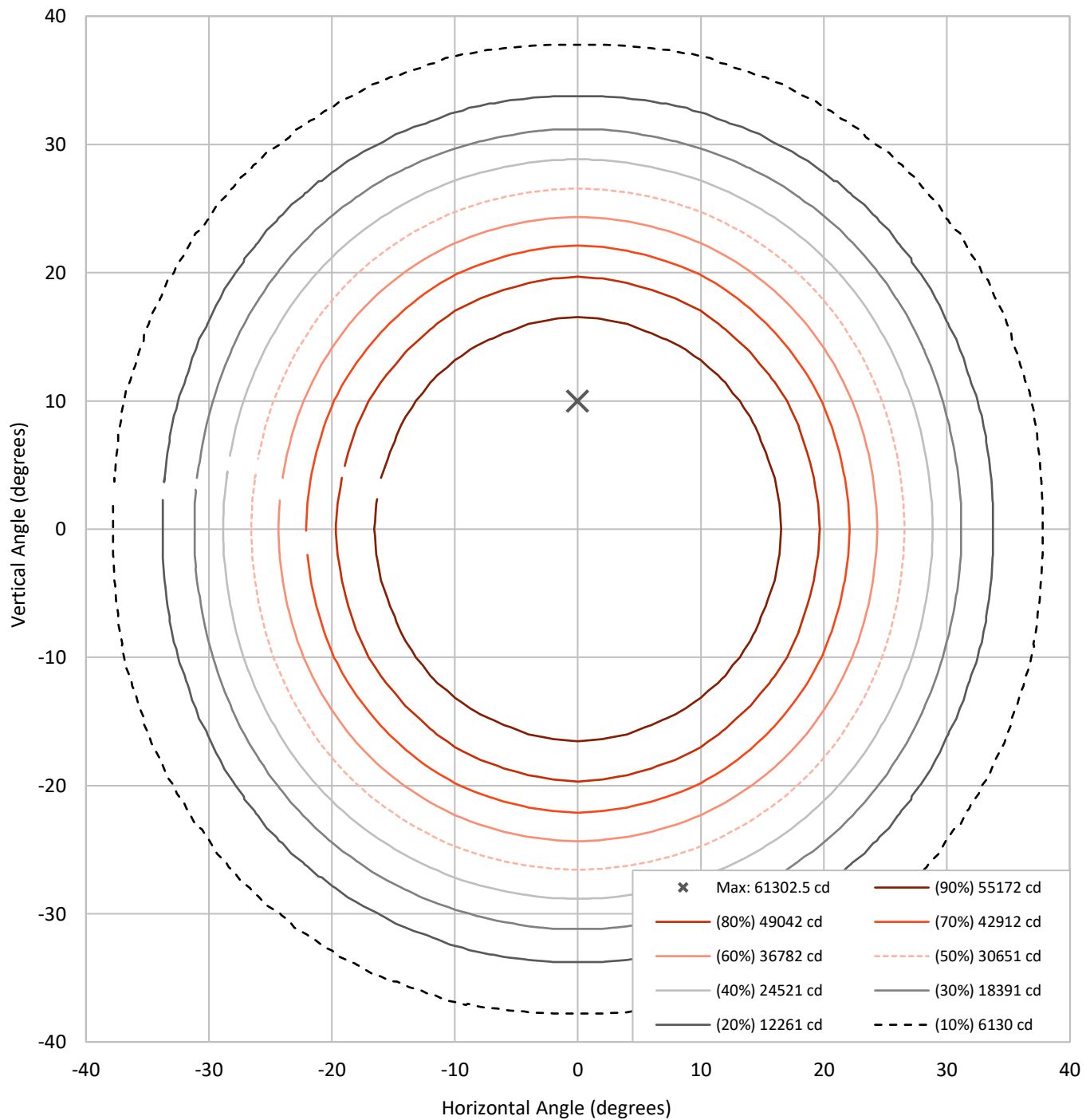
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



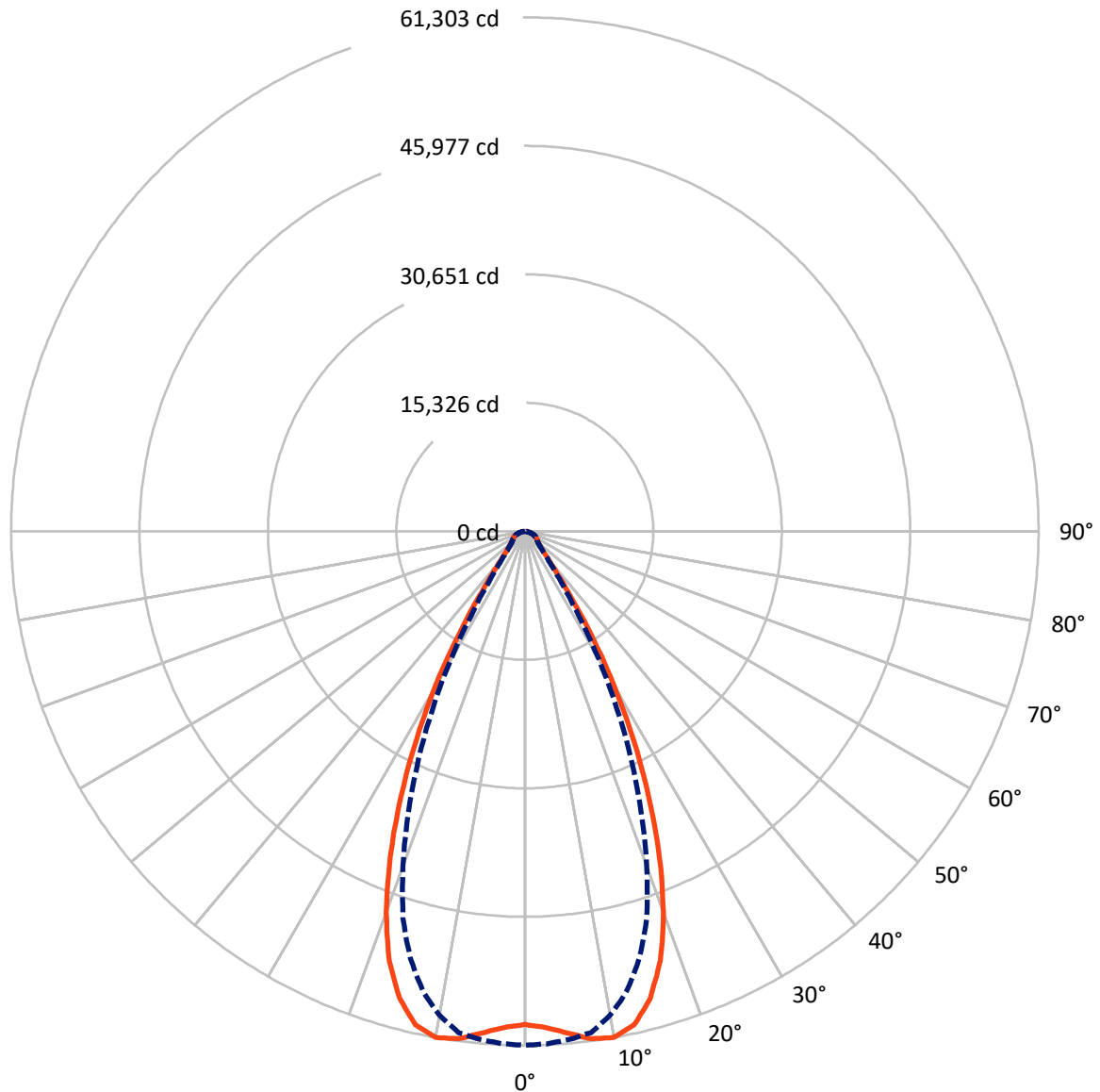
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Lumen Table

90																			
80	1.4	11.0		28.7		46.3		53.6		46.3		28.7		11.0		1.4			
70																			
60	5.0	5.4	11.3	18.7	26.3	32.9	37.6	40.2	40.2	37.6	32.9	26.3	18.7	11.3	5.4	5.0			
50		8.4	17.4	27.5	37.0	44.9	51.0	54.4	54.4	51.0	44.9	37.0	27.5	17.4	8.4				
40	8.9	11.3	22.4	33.8	45.4	58.8	74.4	86.4	86.4	74.4	58.8	45.4	33.8	22.4	11.3	8.9			
30		13.7	26.0	39.3	59.5	106.0	207.1	312.3	312.3	207.1	106.0	59.5	39.3	26.0	13.7				
20	11.9	15.5	28.5	46.0	96.2	306.5	710.2	1008.0	1008.0	710.2	306.5	96.2	46.0	28.5	15.5	11.9			
10		16.7	30.4	54.9	177.5	669.0	1308.8	1668.5	1668.5	1308.8	669.0	177.5	54.9	30.4	16.7				
0	12.9	17.2	31.5	61.9	260.6	921.5	1619.2	1836.2	1836.2	1619.2	921.5	260.6	61.9	31.5	17.2	12.9			
-10		17.2	31.5	61.9	260.6	921.5	1619.2	1836.2	1836.2	1619.2	921.5	260.6	61.9	31.5	17.2				
-20	11.9	16.7	30.4	54.9	177.5	669.0	1308.8	1668.5	1668.5	1308.8	669.0	177.5	54.9	30.4	16.7	11.9			
-30		15.5	28.5	46.0	96.2	306.5	710.2	1008.0	1008.0	710.2	306.5	96.2	46.0	28.5	15.5				
-40	8.9	13.7	26.0	39.3	59.5	106.0	207.1	312.3	312.3	207.1	106.0	59.5	39.3	26.0	13.7	8.9			
-50		11.3	22.4	33.8	45.4	58.8	74.4	86.4	86.4	74.4	58.8	45.4	33.8	22.4	11.3				
-60	5.0	8.4	17.4	27.5	37.0	44.9	51.0	54.4	54.4	51.0	44.9	37.0	27.5	17.4	8.4	5.0			
-70		5.4	11.3	18.7	26.3	32.9	37.6	40.2	40.2	37.6	32.9	26.3	18.7	11.3	5.4				
-80	1.4	11.0		28.7		46.3		53.6		46.3		28.7		11.0		1.4			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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Luminous Intensity Polar Plot

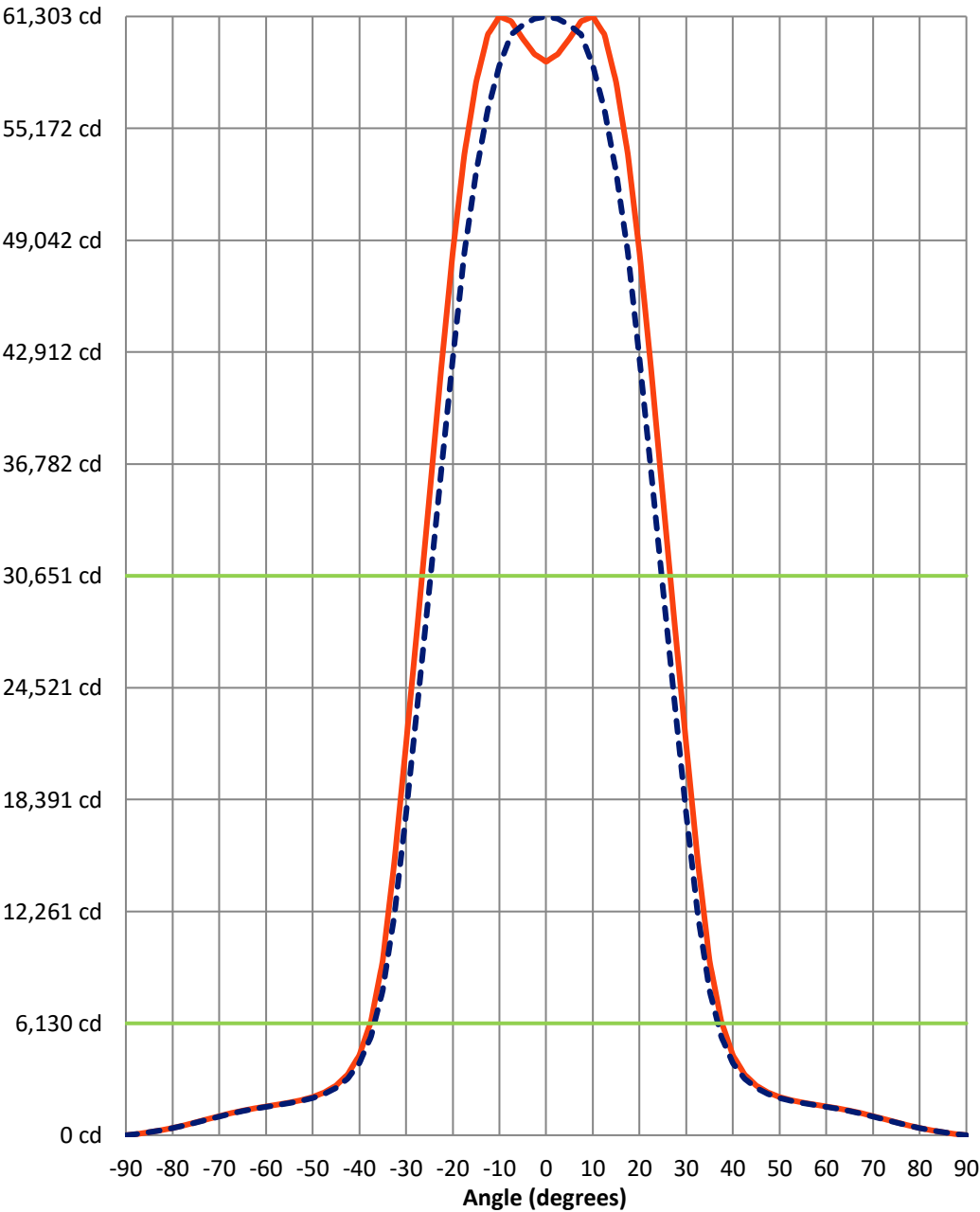


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 24932.8
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 32425.8
Efficiency: 64.6%

Spill:
Lumens: 17738.2
Efficiency: 35.4%

— Vertical Distribution through 0-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°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	62.5	62.5	62.5	62.5
85°	166.8	166.8	166.8	166.8	166.8	161.5	161.5	156.3	156.3	151.1	145.9
82.5°	271.0	271.0	271.0	271.0	265.8	265.8	260.6	255.3	250.1	244.9	239.7
80°	396.0	396.0	396.0	396.0	390.8	385.6	380.4	375.2	364.8	359.6	349.1
77.5°	541.9	541.9	541.9	536.7	531.5	526.3	515.9	505.5	495.0	484.6	474.2
75°	708.7	708.7	708.7	698.3	693.1	682.6	672.2	661.8	646.2	630.5	614.9
72.5°	880.7	880.7	880.7	870.2	859.8	849.4	839.0	823.3	807.7	786.9	766.0
70°	1042.2	1042.2	1042.2	1031.8	1021.4	1010.9	995.3	979.7	958.8	938.0	917.1
67.5°	1209.0	1209.0	1209.0	1193.3	1182.9	1172.5	1156.8	1136.0	1115.2	1089.1	1063.0
65°	1344.4	1344.4	1339.2	1334.0	1323.6	1308.0	1297.5	1276.7	1255.9	1235.0	1209.0
62.5°	1469.5	1469.5	1464.3	1459.1	1448.7	1433.0	1417.4	1401.8	1380.9	1354.9	1328.8
60°	1573.7	1573.7	1568.5	1563.3	1552.9	1542.5	1526.8	1511.2	1490.4	1469.5	1443.5
57.5°	1677.9	1677.9	1672.7	1667.5	1657.1	1641.5	1625.8	1610.2	1589.4	1563.3	1537.3
55°	1787.4	1787.4	1782.2	1771.7	1761.3	1745.7	1730.1	1709.2	1683.2	1657.1	1631.1
52.5°	1917.7	1917.7	1907.2	1896.8	1881.2	1865.5	1839.5	1813.4	1782.2	1750.9	1719.6
50°	2089.6	2089.6	2079.2	2063.6	2037.5	2011.5	1980.2	1938.5	1902.0	1860.3	1818.6
47.5°	2345.0	2345.0	2324.1	2298.1	2261.6	2219.9	2162.6	2100.0	2047.9	1995.8	1933.3
45°	2720.2	2720.2	2688.9	2647.2	2589.9	2516.9	2433.5	2345.0	2256.4	2167.8	2079.2
42.5°	3329.8	3329.8	3272.5	3199.6	3100.6	2975.5	2819.2	2673.3	2548.2	2407.5	2287.6
40°	4382.5	4382.5	4273.0	4137.6	3950.0	3710.2	3423.6	3194.4	2975.5	2730.6	2563.8
37.5°	6253.2	6253.2	6039.6	5779.0	5414.3	4955.7	4403.3	4033.3	3626.9	3241.3	2959.9
35°	9557.0	9557.0	9145.3	8639.9	7936.4	7050.5	6107.3	5409.0	4632.6	4038.5	3512.2
32.5°	14976.5	14976.5	14236.5	13324.6	12068.7	10479.4	8968.2	7639.4	6253.2	5268.3	4319.9
30°	21417.3	21417.3	20448.1	19254.7	17618.5	15554.9	13402.8	11042.2	8853.5	7097.4	5664.4
27.5°	28077.0	27800.8	26967.0	25607.0	23741.4	21417.3	18733.6	15685.2	12725.3	9630.0	7582.0
25°	34966.0	34642.9	33689.3	32126.0	29989.4	27357.9	24335.5	20927.5	17274.5	13585.1	10041.6
22.5°	41927.9	41563.1	40479.2	38712.7	36315.6	33366.2	29942.5	26154.1	22073.9	17811.3	13585.1
20°	48363.5	47977.9	46841.9	45002.4	42522.0	39285.9	35481.9	31281.8	26769.0	22073.9	17274.5
17.5°	53751.7	53381.7	52287.4	50531.3	48363.5	44783.5	40828.4	36211.4	31281.8	26154.1	20927.5
15°	57686.0	57368.2	56435.4	54960.7	52751.2	49582.9	45554.8	40828.4	35481.9	29942.5	24335.5
12.5°	60296.8	60041.4	59306.7	58160.2	56180.0	53522.4	49582.9	44783.5	39285.9	33366.2	27357.9
10°	61302.5	61177.4	60833.5	60307.2	58618.8	56180.0	52751.2	48363.5	42522.0	36315.6	29989.4
7.5°	61036.7	61078.4	61198.3	61062.8	60307.2	58160.2	54960.7	50531.3	45002.4	38712.7	32126.0
5°	60088.3	60312.4	60870.0	61198.3	60833.5	59306.7	56435.4	52287.4	46841.9	40479.2	33689.3
2.5°	59244.1	59593.3	60312.4	61078.4	61177.4	60041.4	57368.2	53381.7	47977.9	41563.1	34642.9
0°	58827.2	59244.1	60088.3	61036.7	61302.5	60296.8	57686.0	53751.7	48363.5	41927.9	34966.0

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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°	62.5	57.3	57.3	57.3	52.1	52.1	52.1	46.9	46.9	41.7	41.7
85°	145.9	140.7	135.5	130.3	125.1	119.9	114.6	109.4	104.2	93.8	88.6
82.5°	234.5	229.3	224.1	213.7	208.4	198.0	187.6	177.2	166.8	161.5	151.1
80°	338.7	328.3	317.9	307.5	291.8	276.2	265.8	250.1	239.7	224.1	213.7
77.5°	458.6	442.9	427.3	406.5	390.8	375.2	354.3	338.7	317.9	297.0	276.2
75°	594.1	573.2	547.2	526.3	505.5	479.4	453.4	427.3	401.2	375.2	349.1
72.5°	740.0	713.9	687.9	661.8	630.5	594.1	562.8	526.3	495.0	463.8	427.3
70°	891.1	859.8	828.6	797.3	760.8	719.1	682.6	641.0	599.3	557.6	515.9
67.5°	1031.8	1000.5	964.0	932.8	891.1	849.4	802.5	755.6	708.7	656.6	604.5
65°	1177.7	1141.2	1099.5	1057.8	1016.1	969.3	922.4	875.5	818.1	760.8	708.7
62.5°	1297.5	1266.3	1229.8	1188.1	1141.2	1089.1	1042.2	979.7	922.4	865.0	797.3
60°	1412.2	1375.7	1344.4	1297.5	1255.9	1209.0	1151.6	1089.1	1026.6	958.8	896.3
57.5°	1511.2	1479.9	1443.5	1401.8	1354.9	1308.0	1255.9	1198.5	1125.6	1057.8	984.9
55°	1599.8	1563.3	1526.8	1490.4	1448.7	1396.6	1344.4	1287.1	1224.6	1151.6	1073.5
52.5°	1688.4	1651.9	1610.2	1573.7	1526.8	1479.9	1427.8	1370.5	1308.0	1240.2	1156.8
50°	1777.0	1735.3	1693.6	1646.7	1599.8	1552.9	1500.8	1448.7	1380.9	1313.2	1240.2
47.5°	1881.2	1829.1	1777.0	1724.8	1677.9	1620.6	1568.5	1511.2	1453.9	1380.9	1308.0
45°	2011.5	1933.3	1870.8	1808.2	1750.9	1693.6	1631.1	1573.7	1511.2	1448.7	1370.5
42.5°	2173.0	2068.8	1985.4	1902.0	1829.1	1761.3	1698.8	1631.1	1568.5	1500.8	1427.8
40°	2391.9	2251.2	2115.7	2011.5	1917.7	1834.3	1761.3	1693.6	1620.6	1552.9	1479.9
37.5°	2678.5	2480.4	2292.9	2141.7	2021.9	1917.7	1829.1	1750.9	1677.9	1599.8	1526.8
35°	3111.0	2767.1	2527.3	2308.5	2141.7	2011.5	1902.0	1808.2	1724.8	1646.7	1573.7
32.5°	3720.7	3189.1	2803.5	2527.3	2292.9	2115.7	1985.4	1870.8	1777.0	1693.6	1610.2
30°	4523.2	3788.4	3189.1	2767.1	2480.4	2251.2	2068.8	1933.3	1829.1	1735.3	1651.9
27.5°	5794.7	4523.2	3720.7	3111.0	2678.5	2391.9	2173.0	2011.5	1881.2	1777.0	1688.4
25°	7582.0	5664.4	4319.9	3512.2	2959.9	2563.8	2287.6	2079.2	1933.3	1818.6	1719.6
22.5°	9630.0	7097.4	5268.3	4038.5	3241.3	2730.6	2407.5	2167.8	1995.8	1860.3	1750.9
20°	12725.3	8853.5	6253.2	4632.6	3626.9	2975.5	2548.2	2256.4	2047.9	1902.0	1782.2
17.5°	15685.2	11042.2	7639.4	5409.0	4033.3	3194.4	2673.3	2345.0	2100.0	1938.5	1813.4
15°	18733.6	13402.8	8968.2	6107.3	4403.3	3423.6	2819.2	2433.5	2162.6	1980.2	1839.5
12.5°	21417.3	15554.9	10479.4	7050.5	4955.7	3710.2	2975.5	2516.9	2219.9	2011.5	1865.5
10°	23741.4	17618.5	12068.7	7936.4	5414.3	3950.0	3100.6	2589.9	2261.6	2037.5	1881.2
7.5°	25607.0	19254.7	13324.6	8639.9	5779.0	4137.6	3199.6	2647.2	2298.1	2063.6	1896.8
5°	26967.0	20448.1	14236.5	9145.3	6039.6	4273.0	3272.5	2688.9	2324.1	2079.2	1907.2
2.5°	27800.8	21417.3	14976.5	9557.0	6253.2	4382.5	3329.8	2720.2	2345.0	2089.6	1917.7
0°	28077.0	21417.3	14976.5	9557.0	6253.2	4382.5	3329.8	2720.2	2345.0	2089.6	1917.7

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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°	36.5	36.5	31.3	31.3	26.1	26.1	20.8	20.8	15.6	15.6	10.4
85°	83.4	73.0	67.7	62.5	57.3	52.1	46.9	41.7	36.5	31.3	26.1
82.5°	140.7	130.3	114.6	104.2	93.8	83.4	67.7	62.5	52.1	41.7	36.5
80°	198.0	182.4	166.8	151.1	135.5	119.9	104.2	88.6	73.0	57.3	46.9
77.5°	255.3	234.5	218.9	198.0	177.2	156.3	135.5	114.6	93.8	73.0	57.3
75°	323.1	297.0	271.0	244.9	218.9	192.8	172.0	145.9	119.9	93.8	73.0
72.5°	396.0	359.6	328.3	297.0	260.6	234.5	203.2	177.2	145.9	114.6	88.6
70°	474.2	432.5	390.8	349.1	312.7	271.0	239.7	203.2	172.0	135.5	104.2
67.5°	552.4	505.5	458.6	406.5	359.6	317.9	271.0	234.5	192.8	156.3	119.9
65°	646.2	583.6	526.3	469.0	411.7	359.6	312.7	260.6	218.9	177.2	135.5
62.5°	734.8	667.0	599.3	531.5	469.0	406.5	349.1	297.0	244.9	198.0	151.1
60°	823.3	750.4	672.2	599.3	526.3	458.6	390.8	328.3	271.0	218.9	166.8
57.5°	911.9	828.6	750.4	667.0	583.6	505.5	432.5	359.6	297.0	234.5	182.4
55°	990.1	911.9	823.3	734.8	646.2	552.4	474.2	396.0	323.1	255.3	198.0
52.5°	1073.5	984.9	896.3	797.3	708.7	604.5	515.9	427.3	349.1	276.2	213.7
50°	1151.6	1057.8	958.8	865.0	760.8	656.6	557.6	463.8	375.2	297.0	224.1
47.5°	1224.6	1125.6	1026.6	922.4	818.1	708.7	599.3	495.0	401.2	317.9	239.7
45°	1287.1	1198.5	1089.1	979.7	875.5	755.6	641.0	526.3	427.3	338.7	250.1
42.5°	1344.4	1255.9	1151.6	1042.2	922.4	802.5	682.6	562.8	453.4	354.3	265.8
40°	1396.6	1308.0	1209.0	1089.1	969.3	849.4	719.1	594.1	479.4	375.2	276.2
37.5°	1448.7	1354.9	1255.9	1141.2	1016.1	891.1	760.8	630.5	505.5	390.8	291.8
35°	1490.4	1401.8	1297.5	1188.1	1057.8	932.8	797.3	661.8	526.3	406.5	307.5
32.5°	1526.8	1443.5	1344.4	1229.8	1099.5	964.0	828.6	687.9	547.2	427.3	317.9
30°	1563.3	1479.9	1375.7	1266.3	1141.2	1000.5	859.8	713.9	573.2	442.9	328.3
27.5°	1599.8	1511.2	1412.2	1297.5	1177.7	1031.8	891.1	740.0	594.1	458.6	338.7
25°	1631.1	1537.3	1443.5	1328.8	1209.0	1063.0	917.1	766.0	614.9	474.2	349.1
22.5°	1657.1	1563.3	1469.5	1354.9	1235.0	1089.1	938.0	786.9	630.5	484.6	359.6
20°	1683.2	1589.4	1490.4	1380.9	1255.9	1115.2	958.8	807.7	646.2	495.0	364.8
17.5°	1709.2	1610.2	1511.2	1401.8	1276.7	1136.0	979.7	823.3	661.8	505.5	375.2
15°	1730.1	1625.8	1526.8	1417.4	1297.5	1156.8	995.3	839.0	672.2	515.9	380.4
12.5°	1745.7	1641.5	1542.5	1433.0	1308.0	1172.5	1010.9	849.4	682.6	526.3	385.6
10°	1761.3	1657.1	1552.9	1448.7	1323.6	1182.9	1021.4	859.8	693.1	531.5	390.8
7.5°	1771.7	1667.5	1563.3	1459.1	1334.0	1193.3	1031.8	870.2	698.3	536.7	396.0
5°	1782.2	1672.7	1568.5	1464.3	1339.2	1209.0	1042.2	880.7	708.7	541.9	396.0
2.5°	1787.4	1677.9	1573.7	1469.5	1344.4	1209.0	1042.2	880.7	708.7	541.9	396.0
0°	1787.4	1677.9	1573.7	1469.5	1344.4	1209.0	1042.2	880.7	708.7	541.9	396.0

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	5.2	0.0
85°	15.6	10.4	5.2	0.0
82.5°	26.1	15.6	10.4	0.0
80°	36.5	26.1	10.4	0.0
77.5°	41.7	31.3	15.6	0.0
75°	52.1	36.5	15.6	0.0
72.5°	62.5	41.7	20.8	0.0
70°	67.7	46.9	20.8	0.0
67.5°	83.4	52.1	26.1	0.0
65°	93.8	57.3	26.1	0.0
62.5°	104.2	62.5	31.3	0.0
60°	114.6	67.7	31.3	0.0
57.5°	130.3	73.0	36.5	0.0
55°	140.7	83.4	36.5	0.0
52.5°	151.1	88.6	41.7	0.0
50°	161.5	93.8	41.7	0.0
47.5°	166.8	104.2	46.9	0.0
45°	177.2	109.4	46.9	0.0
42.5°	187.6	114.6	52.1	0.0
40°	198.0	119.9	52.1	0.0
37.5°	208.4	125.1	52.1	0.0
35°	213.7	130.3	57.3	0.0
32.5°	224.1	135.5	57.3	0.0
30°	229.3	140.7	57.3	0.0
27.5°	234.5	145.9	62.5	0.0
25°	239.7	145.9	62.5	0.0
22.5°	244.9	151.1	62.5	0.0
20°	250.1	156.3	62.5	0.0
17.5°	255.3	156.3	62.5	0.0
15°	260.6	161.5	67.7	0.0
12.5°	265.8	161.5	67.7	0.0
10°	265.8	166.8	67.7	0.0
7.5°	271.0	166.8	67.7	0.0
5°	271.0	166.8	67.7	0.0
2.5°	271.0	166.8	67.7	0.0
0°	271.0	166.8	67.7	0.0

(END OF REPORT)