

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: P623689

Luminaire Tested: **IFLD-L-SA7D-740-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623689
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	50860.8 lumens	Max Intensity:	62154 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	120.4 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:	25279.1 lumens	Field Lumens:	32876.2 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

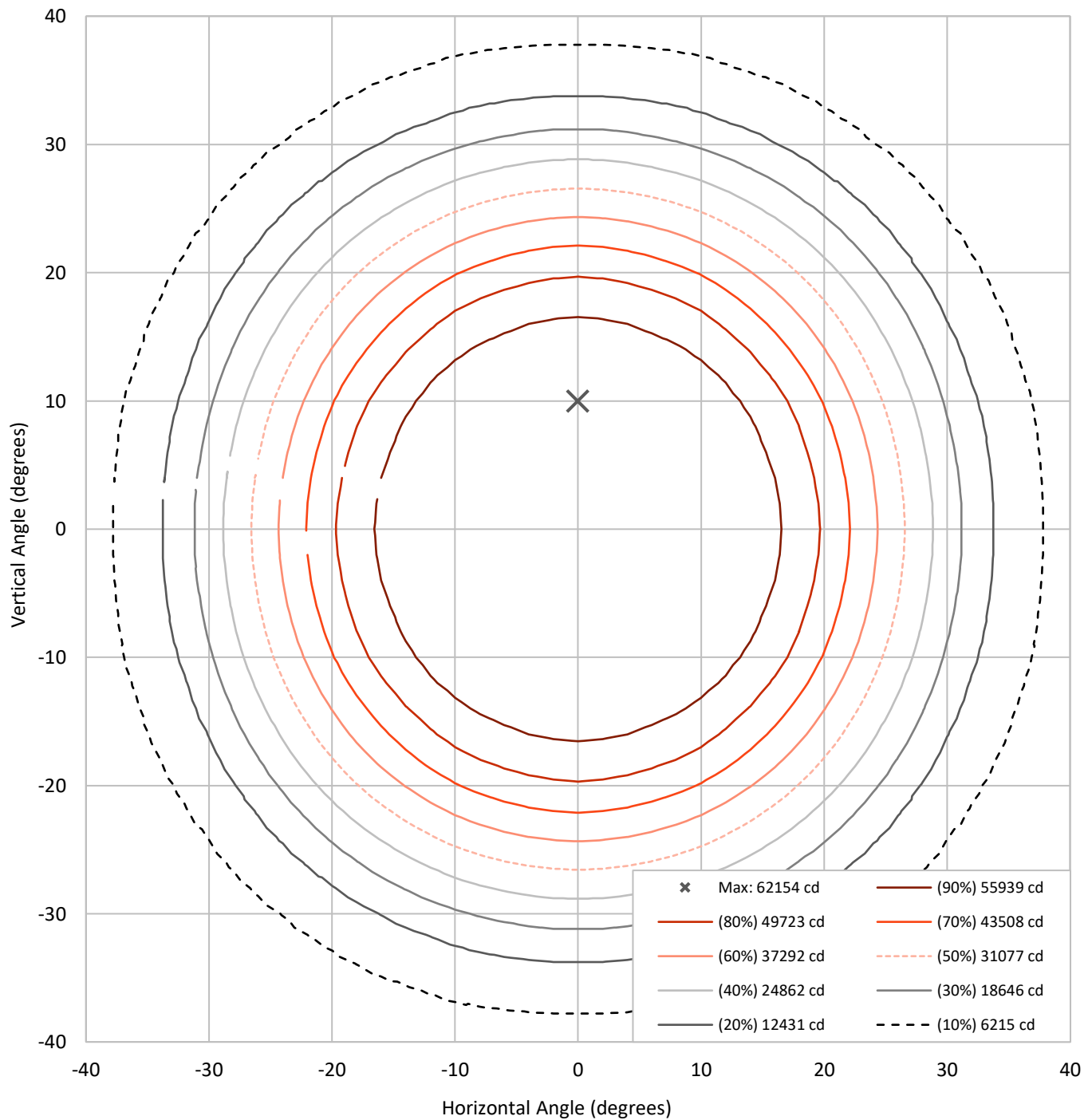
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



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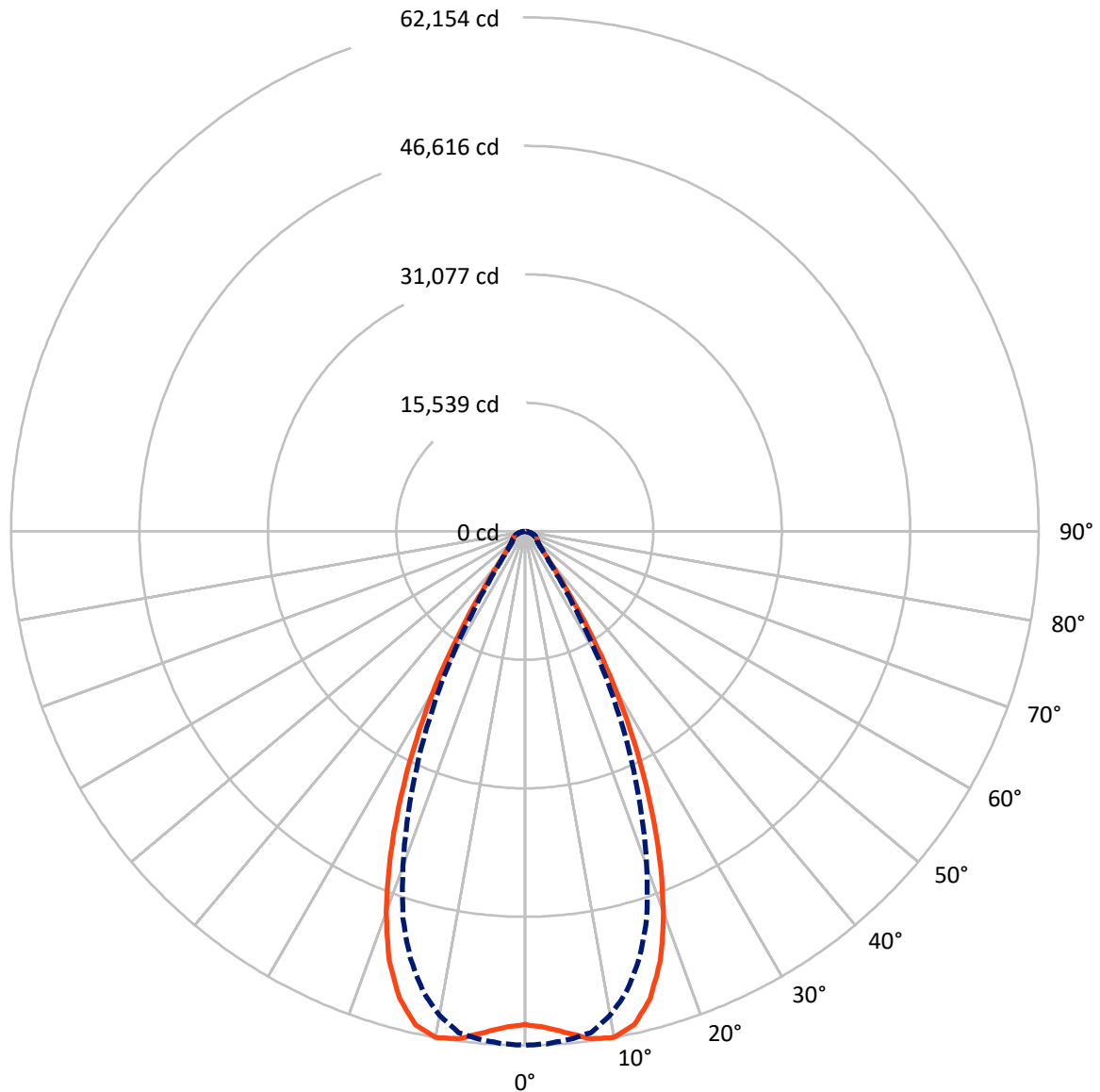
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Lumen Table

90																			
80	1.5	11.2		29.1		46.9		54.4		46.9		29.1		11.2		1.5			
70																			
60	5.1	5.5	11.5	19.0	26.7	33.3	38.2	40.8	40.8	38.2	33.3	26.7	19.0	11.5	5.5	5.1			
50		8.5	17.6	27.9	37.5	45.5	51.7	55.1	55.1	51.7	45.5	37.5	27.9	17.6	8.5				
40	9.0	11.5	22.7	34.3	46.0	59.6	75.5	87.6	87.6	75.5	59.6	46.0	34.3	22.7	11.5	9.0			
30		13.9	26.3	39.8	60.3	107.5	210.0	316.7	316.7	210.0	107.5	60.3	39.8	26.3	13.9				
20	12.0	15.7	28.9	46.7	97.5	310.8	720.1	1022.0	1022.0	720.1	310.8	97.5	46.7	28.9	15.7	12.0			
10		16.9	30.8	55.6	180.0	678.3	1327.0	1691.7	1691.7	1327.0	678.3	180.0	55.6	30.8	16.9				
0	13.1	17.5	31.9	62.8	264.2	934.3	1641.7	1861.7	1861.7	1641.7	934.3	264.2	62.8	31.9	17.5	13.1			
-10		17.5	31.9	62.8	264.2	934.3	1641.7	1861.7	1861.7	1641.7	934.3	264.2	62.8	31.9	17.5				
-20	12.0	16.9	30.8	55.6	180.0	678.3	1327.0	1691.7	1691.7	1327.0	678.3	180.0	55.6	30.8	16.9	12.0			
-30		15.7	28.9	46.7	97.5	310.8	720.1	1022.0	1022.0	720.1	310.8	97.5	46.7	28.9	15.7				
-40	9.0	13.9	26.3	39.8	60.3	107.5	210.0	316.7	316.7	210.0	107.5	60.3	39.8	26.3	13.9	9.0			
-50		11.5	22.7	34.3	46.0	59.6	75.5	87.6	87.6	75.5	59.6	46.0	34.3	22.7	11.5				
-60	5.1	8.5	17.6	27.9	37.5	45.5	51.7	55.1	55.1	51.7	45.5	37.5	27.9	17.6	8.5	5.1			
-70		5.5	11.5	19.0	26.7	33.3	38.2	40.8	40.8	38.2	33.3	26.7	19.0	11.5	5.5				
-80	1.5	11.2		29.1		46.9		54.4		46.9		29.1		11.2		1.5			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
	Horizontal Angle (degrees)																		

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Luminous Intensity Polar Plot

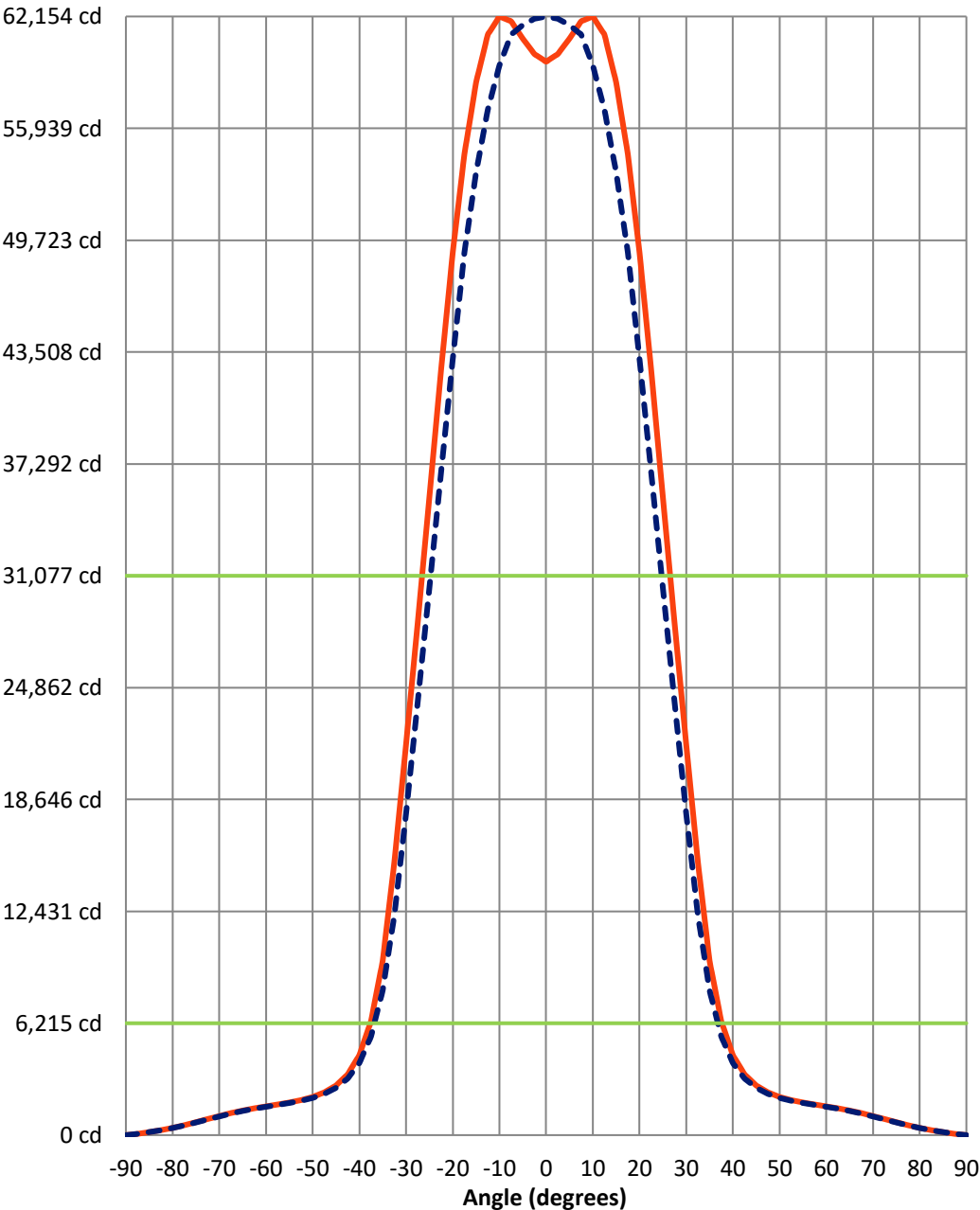


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 25279.1
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 32876.2
Efficiency: 64.6%

Spill:
Lumens: 17984.6
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°	68.7	68.7	68.7	68.7	68.7	68.7	68.7	63.4	63.4	63.4	63.4
85°	169.1	169.1	169.1	169.1	169.1	163.8	163.8	158.5	158.5	153.2	147.9
82.5°	274.7	274.7	274.7	274.7	269.5	269.5	264.2	258.9	253.6	248.3	243.0
80°	401.5	401.5	401.5	401.5	396.3	391.0	385.7	380.4	369.8	364.6	354.0
77.5°	549.5	549.5	549.5	544.2	538.9	533.6	523.1	512.5	501.9	491.4	480.8
75°	718.5	718.5	718.5	708.0	702.7	692.1	681.6	671.0	655.1	639.3	623.4
72.5°	892.9	892.9	892.9	882.3	871.8	861.2	850.6	834.8	818.9	797.8	776.7
70°	1056.7	1056.7	1056.7	1046.1	1035.5	1025.0	1009.1	993.3	972.1	951.0	929.9
67.5°	1225.8	1225.8	1225.8	1209.9	1199.3	1188.8	1172.9	1151.8	1130.6	1104.2	1077.8
65°	1363.1	1363.1	1357.8	1352.6	1342.0	1326.1	1315.6	1294.4	1273.3	1252.2	1225.8
62.5°	1489.9	1489.9	1484.6	1479.4	1468.8	1452.9	1437.1	1421.2	1400.1	1373.7	1347.3
60°	1595.6	1595.6	1590.3	1585.0	1574.5	1563.9	1548.0	1532.2	1511.1	1489.9	1463.5
57.5°	1701.3	1701.3	1696.0	1690.7	1680.1	1664.3	1648.4	1632.6	1611.4	1585.0	1558.6
55°	1812.2	1812.2	1806.9	1796.4	1785.8	1769.9	1754.1	1733.0	1706.5	1680.1	1653.7
52.5°	1944.3	1944.3	1933.7	1923.2	1907.3	1891.5	1865.0	1838.6	1806.9	1775.2	1743.5
50°	2118.6	2118.6	2108.1	2092.2	2065.8	2039.4	2007.7	1965.4	1928.4	1886.2	1843.9
47.5°	2377.5	2377.5	2356.4	2330.0	2293.0	2250.7	2192.6	2129.2	2076.4	2023.5	1960.1
45°	2757.9	2757.9	2726.2	2684.0	2625.9	2551.9	2467.4	2377.5	2287.7	2197.9	2108.1
42.5°	3376.1	3376.1	3318.0	3244.0	3143.6	3016.8	2858.3	2710.4	2583.6	2440.9	2319.4
40°	4443.3	4443.3	4332.4	4195.0	4004.8	3761.8	3471.2	3238.7	3016.8	2768.5	2599.4
37.5°	6340.1	6340.1	6123.5	5859.3	5489.5	5024.5	4464.5	4089.4	3677.3	3286.3	3001.0
35°	9689.8	9689.8	9272.4	8759.9	8046.6	7148.4	6192.2	5484.2	4696.9	4094.6	3561.0
32.5°	15184.5	15184.5	14434.3	13509.7	12236.4	10624.9	9092.7	7745.5	6340.1	5341.5	4379.9
30°	21714.8	21714.8	20732.1	19522.2	17863.2	15771.0	13588.9	11195.5	8976.5	7196.0	5743.1
27.5°	28467.0	28187.0	27341.6	25962.7	24071.2	21714.8	18993.8	15903.1	12902.1	9763.7	7687.4
25°	35451.7	35124.1	34157.2	32572.2	30406.0	27737.9	24673.5	21218.2	17514.5	13773.8	10181.1
22.5°	42510.3	42140.4	41041.5	39250.4	36820.1	33829.6	30358.5	26517.4	22380.5	18058.7	13773.8
20°	49035.3	48644.3	47492.5	45627.5	43112.6	39831.6	35974.7	31716.3	27140.9	22380.5	17514.5
17.5°	54498.3	54123.2	53013.7	51233.2	49035.3	45405.6	41395.5	36714.4	31716.3	26517.4	21218.2
15°	58487.3	58165.0	57219.3	55724.1	53483.9	50271.6	46187.5	41395.5	35974.7	30358.5	24673.5
12.5°	61134.3	60875.4	60130.4	58968.1	56960.4	54265.9	50271.6	45405.6	39831.6	33829.6	27737.9
10°	62154.0	62027.2	61678.5	61144.9	59433.0	56960.4	53483.9	49035.3	43112.6	36820.1	30406.0
7.5°	61884.5	61926.8	62048.3	61911.0	61144.9	58968.1	55724.1	51233.2	45627.5	39250.4	32572.2
5°	60923.0	61150.1	61715.5	62048.3	61678.5	60130.4	57219.3	53013.7	47492.5	41041.5	34157.2
2.5°	60067.0	60421.0	61150.1	61926.8	62027.2	60875.4	58165.0	54123.2	48644.3	42140.4	35124.1
0°	59644.4	60067.0	60923.0	61884.5	62154.0	61134.3	58487.3	54498.3	49035.3	42510.3	35451.7

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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°	63.4	58.1	58.1	58.1	52.8	52.8	52.8	47.6	47.6	42.3	42.3
85°	147.9	142.7	137.4	132.1	126.8	121.5	116.2	111.0	105.7	95.1	89.8
82.5°	237.8	232.5	227.2	216.6	211.3	200.8	190.2	179.6	169.1	163.8	153.2
80°	343.4	332.9	322.3	311.7	295.9	280.0	269.5	253.6	243.0	227.2	216.6
77.5°	464.9	449.1	433.2	412.1	396.3	380.4	359.3	343.4	322.3	301.2	280.0
75°	602.3	581.2	554.8	533.6	512.5	486.1	459.7	433.2	406.8	380.4	354.0
72.5°	750.2	723.8	697.4	671.0	639.3	602.3	570.6	533.6	501.9	470.2	433.2
70°	903.5	871.8	840.1	808.4	771.4	729.1	692.1	649.9	607.6	565.3	523.1
67.5°	1046.1	1014.4	977.4	945.7	903.5	861.2	813.6	766.1	718.5	665.7	612.9
65°	1194.0	1157.1	1114.8	1072.5	1030.3	982.7	935.2	887.6	829.5	771.4	718.5
62.5°	1315.6	1283.9	1246.9	1204.6	1157.1	1104.2	1056.7	993.3	935.2	877.0	808.4
60°	1431.8	1394.8	1363.1	1315.6	1273.3	1225.8	1167.6	1104.2	1040.8	972.1	908.7
57.5°	1532.2	1500.5	1463.5	1421.2	1373.7	1326.1	1273.3	1215.2	1141.2	1072.5	998.6
55°	1622.0	1585.0	1548.0	1511.1	1468.8	1416.0	1363.1	1305.0	1241.6	1167.6	1088.4
52.5°	1711.8	1674.8	1632.6	1595.6	1548.0	1500.5	1447.7	1389.5	1326.1	1257.5	1172.9
50°	1801.6	1759.4	1717.1	1669.6	1622.0	1574.5	1521.6	1468.8	1400.1	1331.4	1257.5
47.5°	1907.3	1854.5	1801.6	1748.8	1701.3	1643.1	1590.3	1532.2	1474.1	1400.1	1326.1
45°	2039.4	1960.1	1896.7	1833.3	1775.2	1717.1	1653.7	1595.6	1532.2	1468.8	1389.5
42.5°	2203.2	2097.5	2013.0	1928.4	1854.5	1785.8	1722.4	1653.7	1590.3	1521.6	1447.7
40°	2425.1	2282.4	2145.1	2039.4	1944.3	1859.8	1785.8	1717.1	1643.1	1574.5	1500.5
37.5°	2715.7	2514.9	2324.7	2171.5	2050.0	1944.3	1854.5	1775.2	1701.3	1622.0	1548.0
35°	3154.2	2805.5	2562.5	2340.5	2171.5	2039.4	1928.4	1833.3	1748.8	1669.6	1595.6
32.5°	3772.4	3233.4	2842.5	2562.5	2324.7	2145.1	2013.0	1896.7	1801.6	1717.1	1632.6
30°	4586.0	3841.0	3233.4	2805.5	2514.9	2282.4	2097.5	1960.1	1854.5	1759.4	1674.8
27.5°	5875.1	4586.0	3772.4	3154.2	2715.7	2425.1	2203.2	2039.4	1907.3	1801.6	1711.8
25°	7687.4	5743.1	4379.9	3561.0	3001.0	2599.4	2319.4	2108.1	1960.1	1843.9	1743.5
22.5°	9763.7	7196.0	5341.5	4094.6	3286.3	2768.5	2440.9	2197.9	2023.5	1886.2	1775.2
20°	12902.1	8976.5	6340.1	4696.9	3677.3	3016.8	2583.6	2287.7	2076.4	1928.4	1806.9
17.5°	15903.1	11195.5	7745.5	5484.2	4089.4	3238.7	2710.4	2377.5	2129.2	1965.4	1838.6
15°	18993.8	13588.9	9092.7	6192.2	4464.5	3471.2	2858.3	2467.4	2192.6	2007.7	1865.0
12.5°	21714.8	15771.0	10624.9	7148.4	5024.5	3761.8	3016.8	2551.9	2250.7	2039.4	1891.5
10°	24071.2	17863.2	12236.4	8046.6	5489.5	4004.8	3143.6	2625.9	2293.0	2065.8	1907.3
7.5°	25962.7	19522.2	13509.7	8759.9	5859.3	4195.0	3244.0	2684.0	2330.0	2092.2	1923.2
5°	27341.6	20732.1	14434.3	9272.4	6123.5	4332.4	3318.0	2726.2	2356.4	2108.1	1933.7
2.5°	28187.0	21714.8	15184.5	9689.8	6340.1	4443.3	3376.1	2757.9	2377.5	2118.6	1944.3
0°	28467.0	21714.8	15184.5	9689.8	6340.1	4443.3	3376.1	2757.9	2377.5	2118.6	1944.3

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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°	37.0	37.0	31.7	31.7	26.4	26.4	21.1	21.1	15.9	15.9	10.6
85°	84.5	74.0	68.7	63.4	58.1	52.8	47.6	42.3	37.0	31.7	26.4
82.5°	142.7	132.1	116.2	105.7	95.1	84.5	68.7	63.4	52.8	42.3	37.0
80°	200.8	184.9	169.1	153.2	137.4	121.5	105.7	89.8	74.0	58.1	47.6
77.5°	258.9	237.8	221.9	200.8	179.6	158.5	137.4	116.2	95.1	74.0	58.1
75°	327.6	301.2	274.7	248.3	221.9	195.5	174.4	147.9	121.5	95.1	74.0
72.5°	401.5	364.6	332.9	301.2	264.2	237.8	206.1	179.6	147.9	116.2	89.8
70°	480.8	438.5	396.3	354.0	317.0	274.7	243.0	206.1	174.4	137.4	105.7
67.5°	560.0	512.5	464.9	412.1	364.6	322.3	274.7	237.8	195.5	158.5	121.5
65°	655.1	591.7	533.6	475.5	417.4	364.6	317.0	264.2	221.9	179.6	137.4
62.5°	745.0	676.3	607.6	538.9	475.5	412.1	354.0	301.2	248.3	200.8	153.2
60°	834.8	760.8	681.6	607.6	533.6	464.9	396.3	332.9	274.7	221.9	169.1
57.5°	924.6	840.1	760.8	676.3	591.7	512.5	438.5	364.6	301.2	237.8	184.9
55°	1003.8	924.6	834.8	745.0	655.1	560.0	480.8	401.5	327.6	258.9	200.8
52.5°	1088.4	998.6	908.7	808.4	718.5	612.9	523.1	433.2	354.0	280.0	216.6
50°	1167.6	1072.5	972.1	877.0	771.4	665.7	565.3	470.2	380.4	301.2	227.2
47.5°	1241.6	1141.2	1040.8	935.2	829.5	718.5	607.6	501.9	406.8	322.3	243.0
45°	1305.0	1215.2	1104.2	993.3	887.6	766.1	649.9	533.6	433.2	343.4	253.6
42.5°	1363.1	1273.3	1167.6	1056.7	935.2	813.6	692.1	570.6	459.7	359.3	269.5
40°	1416.0	1326.1	1225.8	1104.2	982.7	861.2	729.1	602.3	486.1	380.4	280.0
37.5°	1468.8	1373.7	1273.3	1157.1	1030.3	903.5	771.4	639.3	512.5	396.3	295.9
35°	1511.1	1421.2	1315.6	1204.6	1072.5	945.7	808.4	671.0	533.6	412.1	311.7
32.5°	1548.0	1463.5	1363.1	1246.9	1114.8	977.4	840.1	697.4	554.8	433.2	322.3
30°	1585.0	1500.5	1394.8	1283.9	1157.1	1014.4	871.8	723.8	581.2	449.1	332.9
27.5°	1622.0	1532.2	1431.8	1315.6	1194.0	1046.1	903.5	750.2	602.3	464.9	343.4
25°	1653.7	1558.6	1463.5	1347.3	1225.8	1077.8	929.9	776.7	623.4	480.8	354.0
22.5°	1680.1	1585.0	1489.9	1373.7	1252.2	1104.2	951.0	797.8	639.3	491.4	364.6
20°	1706.5	1611.4	1511.1	1400.1	1273.3	1130.6	972.1	818.9	655.1	501.9	369.8
17.5°	1733.0	1632.6	1532.2	1421.2	1294.4	1151.8	993.3	834.8	671.0	512.5	380.4
15°	1754.1	1648.4	1548.0	1437.1	1315.6	1172.9	1009.1	850.6	681.6	523.1	385.7
12.5°	1769.9	1664.3	1563.9	1452.9	1326.1	1188.8	1025.0	861.2	692.1	533.6	391.0
10°	1785.8	1680.1	1574.5	1468.8	1342.0	1199.3	1035.5	871.8	702.7	538.9	396.3
7.5°	1796.4	1690.7	1585.0	1479.4	1352.6	1209.9	1046.1	882.3	708.0	544.2	401.5
5°	1806.9	1696.0	1590.3	1484.6	1357.8	1225.8	1056.7	892.9	718.5	549.5	401.5
2.5°	1812.2	1701.3	1595.6	1489.9	1363.1	1225.8	1056.7	892.9	718.5	549.5	401.5
0°	1812.2	1701.3	1595.6	1489.9	1363.1	1225.8	1056.7	892.9	718.5	549.5	401.5

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.6	5.3	5.3	0.0
85°	15.9	10.6	5.3	0.0
82.5°	26.4	15.9	10.6	0.0
80°	37.0	26.4	10.6	0.0
77.5°	42.3	31.7	15.9	0.0
75°	52.8	37.0	15.9	0.0
72.5°	63.4	42.3	21.1	0.0
70°	68.7	47.6	21.1	0.0
67.5°	84.5	52.8	26.4	0.0
65°	95.1	58.1	26.4	0.0
62.5°	105.7	63.4	31.7	0.0
60°	116.2	68.7	31.7	0.0
57.5°	132.1	74.0	37.0	0.0
55°	142.7	84.5	37.0	0.0
52.5°	153.2	89.8	42.3	0.0
50°	163.8	95.1	42.3	0.0
47.5°	169.1	105.7	47.6	0.0
45°	179.6	111.0	47.6	0.0
42.5°	190.2	116.2	52.8	0.0
40°	200.8	121.5	52.8	0.0
37.5°	211.3	126.8	52.8	0.0
35°	216.6	132.1	58.1	0.0
32.5°	227.2	137.4	58.1	0.0
30°	232.5	142.7	58.1	0.0
27.5°	237.8	147.9	63.4	0.0
25°	243.0	147.9	63.4	0.0
22.5°	248.3	153.2	63.4	0.0
20°	253.6	158.5	63.4	0.0
17.5°	258.9	158.5	63.4	0.0
15°	264.2	163.8	68.7	0.0
12.5°	269.5	163.8	68.7	0.0
10°	269.5	169.1	68.7	0.0
7.5°	274.7	169.1	68.7	0.0
5°	274.7	169.1	68.7	0.0
2.5°	274.7	169.1	68.7	0.0
0°	274.7	169.1	68.7	0.0

(END OF REPORT)