

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: P623016

Luminaire Tested: **IFLD-L-SA7E-727-U-33**

Issue Date: 10/13/2022

Test Information

Test Method: LM-79-2019
Report Number: P623016
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-33
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

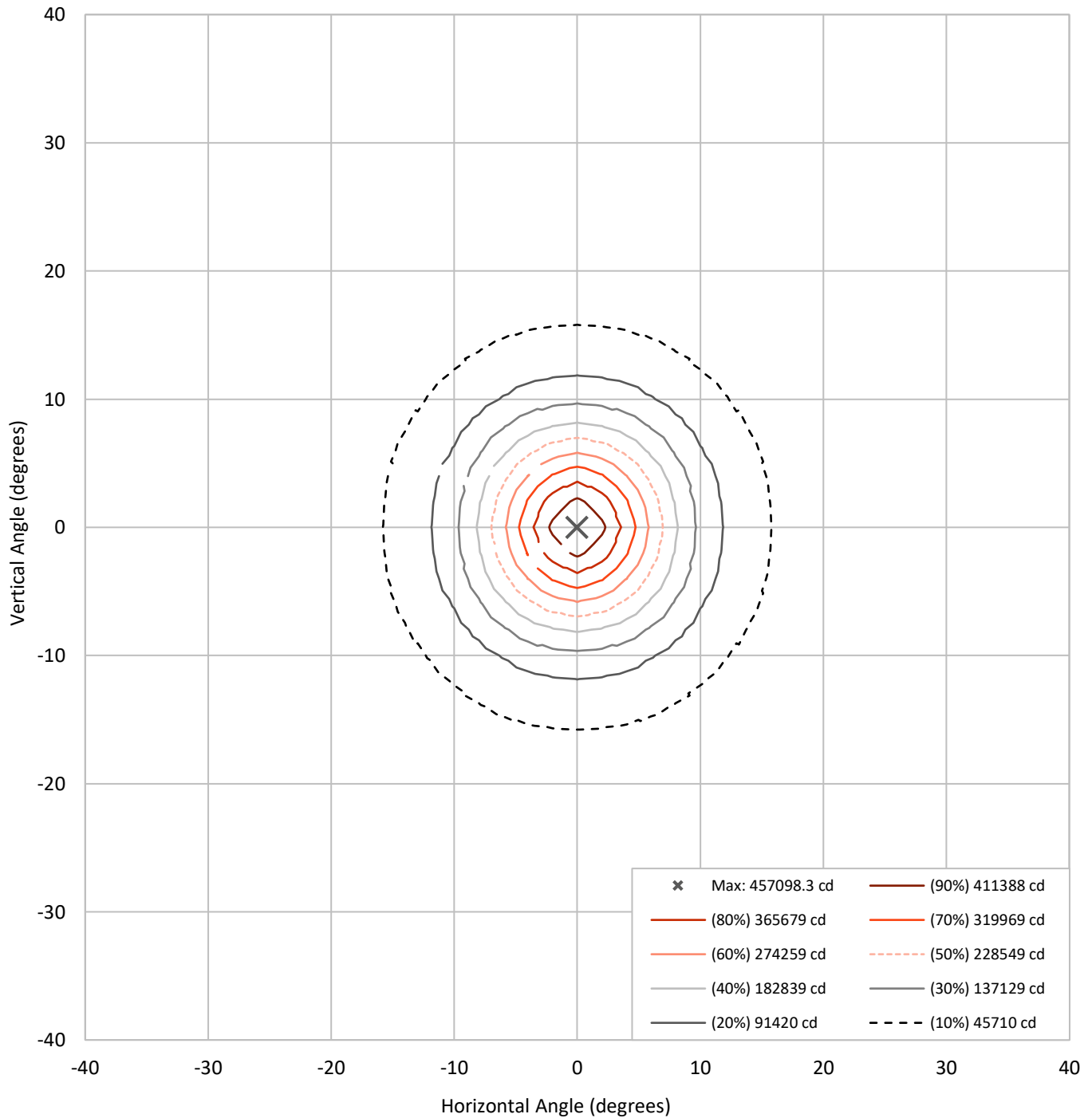
Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	49123.1 lumens	Max Intensity:	457098.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	92.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	10741.8 lumens	Field Lumens:	25011.6 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 532.7
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





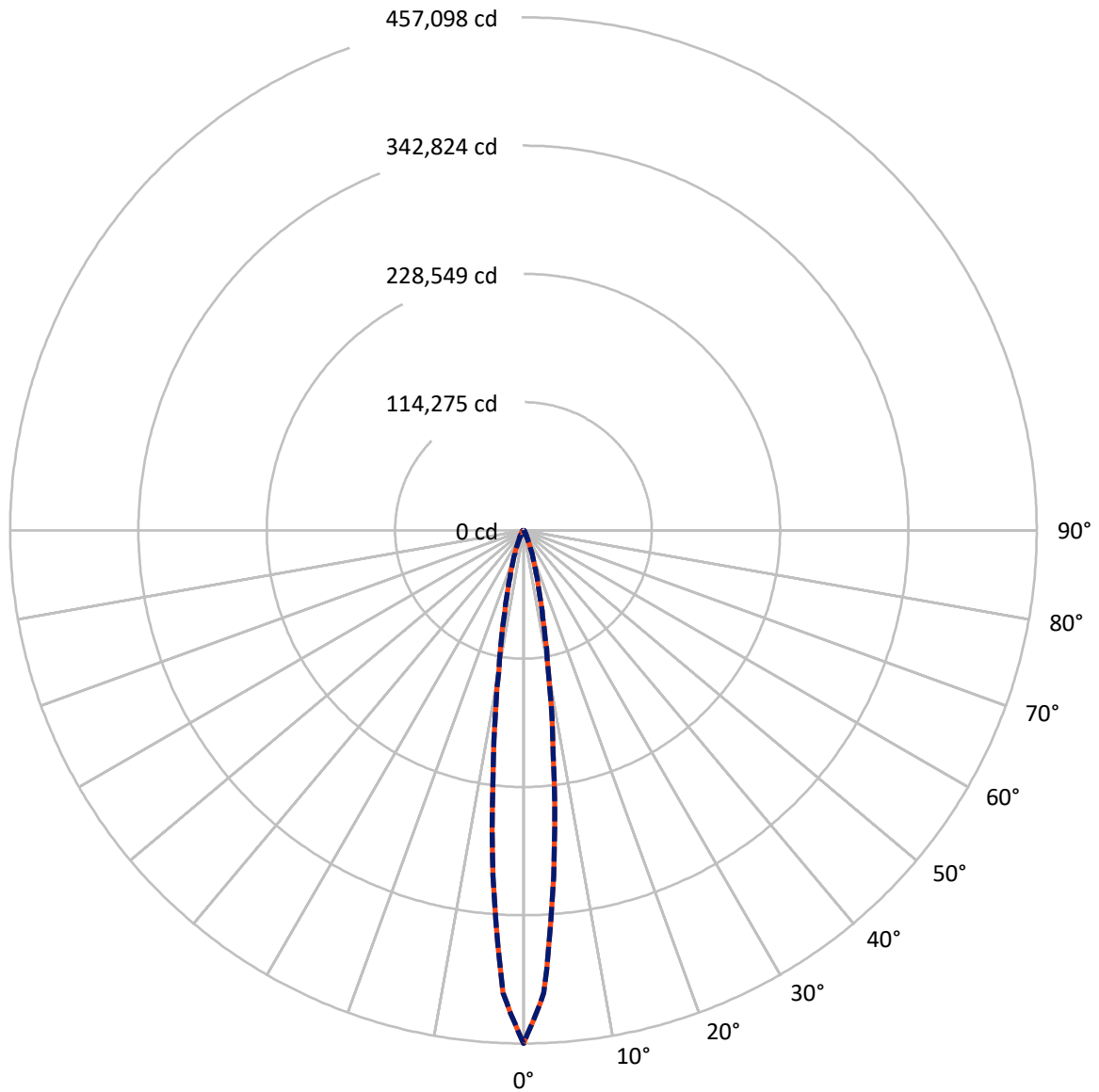
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Lumen Table

90	0.8	6.3				16.9				27.5				31.9				27.5				16.9				6.3				0.8
80	0.8	6.3				16.9				27.5				31.9				27.5				16.9				6.3				0.8
70	2.9	3.2	6.8	11.3	16.0	20.2	23.3	25.0	25.0	23.3	20.2	16.0	11.3	6.8	3.2	2.9														
60		5.0	10.5	17.0	23.5	29.2	33.6	36.0	36.0	33.6	29.2	23.5	17.0	10.5	5.0															
50	5.3	6.8	13.8	21.8	30.2	38.8	46.9	52.0	52.0	46.9	38.8	30.2	21.8	13.8	6.8	5.3														
40		8.4	16.5	26.1	38.2	54.8	74.8	91.9	91.9	74.8	54.8	38.2	26.1	16.5	8.4															
30	7.1	9.6	18.6	30.3	49.6	87.5	178.7	305.7	305.7	178.7	87.5	49.6	30.3	18.6	9.6	7.1														
20		10.4	20.1	34.5	63.8	168.4	605.7	1504.0	1504.0	605.7	168.4	63.8	34.5	20.1	10.4															
10	7.8	10.8	20.9	37.1	76.1	280.6	1465.5	6434.7	6434.7	1465.5	280.6	76.1	37.1	20.9	10.8	7.8														
0		10.8	20.9	37.1	76.1	280.6	1465.5	6434.7	6434.7	1465.5	280.6	76.1	37.1	20.9	10.8															
-10	7.1	10.4	20.1	34.5	63.8	168.4	605.7	1504.0	1504.0	605.7	168.4	63.8	34.5	20.1	10.4	7.1														
-20		9.6	18.6	30.3	49.6	87.5	178.7	305.7	305.7	178.7	87.5	49.6	30.3	18.6	9.6															
-30	5.3	8.4	16.5	26.1	38.2	54.8	74.8	91.9	91.9	74.8	54.8	38.2	26.1	16.5	8.4	5.3														
-40		6.8	13.8	21.8	30.2	38.8	46.9	52.0	52.0	46.9	38.8	30.2	21.8	13.8	6.8															
-50	2.9	5.0	10.5	17.0	23.5	29.2	33.6	36.0	36.0	33.6	29.2	23.5	17.0	10.5	5.0	2.9														
-60		3.2	6.8	11.3	16.0	20.2	23.3	25.0	25.0	23.3	20.2	16.0	11.3	6.8	3.2															
-70	0.8	6.3				16.9				27.5				31.9				27.5				16.9				6.3				0.8
-80		6.3				16.9				27.5				31.9				27.5				16.9				6.3				0.8
-90	0.8	6.3				16.9				27.5				31.9				27.5				16.9				6.3				0.8

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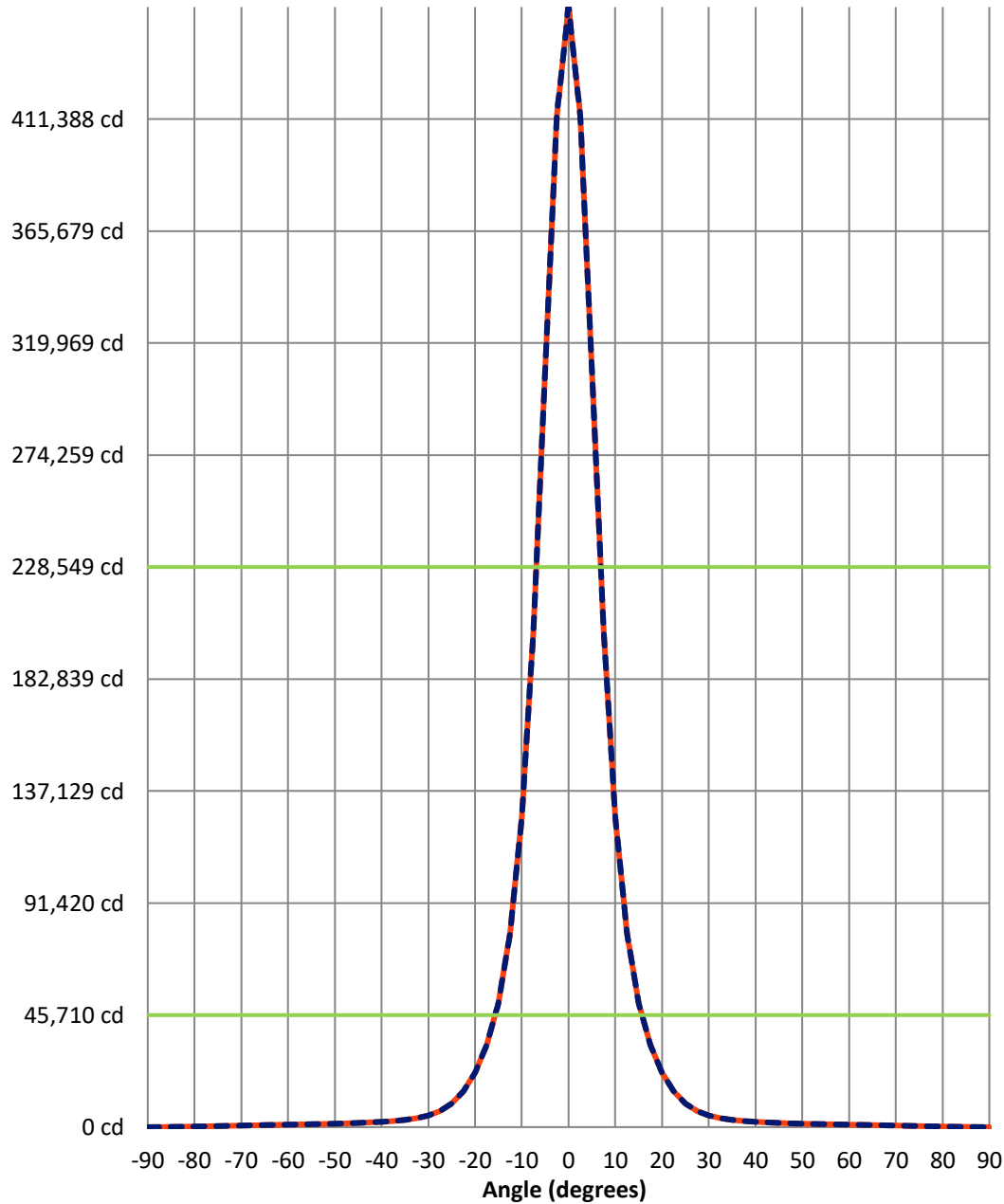
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 13.8°
V Angle: 13.8°
Lumens: 10741.8
Efficiency: 21.9%

Field:
H Angle: 31.4°
V Angle: 31.4°
Lumens: 25011.6
Efficiency: 50.9%

Spill:
Lumens: 24111.6
Efficiency: 49.1%

— 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°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	35.8	35.8
85°	92.0	92.0	92.0	92.0	92.0	92.0	86.9	86.9	86.9	81.8	81.8
82.5°	153.3	153.3	153.3	153.3	148.2	148.2	148.2	143.1	143.1	138.0	138.0
80°	235.1	235.1	235.1	235.1	230.0	224.9	224.9	219.7	214.6	209.5	204.4
77.5°	322.0	322.0	322.0	316.8	316.8	311.7	306.6	301.5	296.4	286.2	281.1
75°	424.2	424.2	424.2	419.1	413.9	408.8	403.7	393.5	388.4	378.2	368.0
72.5°	531.5	531.5	531.5	526.4	521.3	511.0	505.9	495.7	485.5	470.2	459.9
70°	633.7	633.7	633.7	628.6	618.4	613.3	603.0	592.8	582.6	567.3	551.9
67.5°	735.9	735.9	735.9	725.7	720.6	715.5	705.2	689.9	679.7	664.4	643.9
65°	833.0	833.0	827.9	822.8	817.7	807.4	797.2	787.0	771.7	756.3	735.9
62.5°	930.1	930.1	925.0	919.9	914.8	904.5	889.2	879.0	858.6	843.2	822.8
60°	1011.9	1011.9	1006.8	1001.6	996.5	986.3	976.1	960.8	945.4	930.1	909.7
57.5°	1098.7	1098.7	1093.6	1088.5	1078.3	1068.1	1057.9	1042.5	1022.1	1001.6	986.3
55°	1195.8	1195.8	1190.7	1180.5	1170.3	1160.1	1144.7	1124.3	1103.9	1083.4	1057.9
52.5°	1287.8	1287.8	1282.7	1272.5	1262.3	1252.1	1231.6	1216.3	1190.7	1165.2	1134.5
50°	1400.3	1400.3	1390.0	1379.8	1369.6	1349.2	1328.7	1303.2	1277.6	1246.9	1221.4
47.5°	1528.0	1528.0	1517.8	1507.6	1487.1	1466.7	1436.0	1405.4	1374.7	1338.9	1298.1
45°	1706.9	1706.9	1691.6	1671.1	1645.6	1609.8	1568.9	1528.0	1482.0	1441.1	1395.2
42.5°	1926.6	1926.6	1906.2	1880.6	1844.9	1798.9	1742.7	1686.4	1625.1	1558.7	1497.4
40°	2156.6	2156.6	2131.1	2105.5	2064.6	2008.4	1947.1	1875.5	1798.9	1712.0	1635.3
37.5°	2473.5	2473.5	2437.7	2391.7	2330.4	2253.7	2161.7	2079.9	1993.1	1896.0	1793.8
35°	2943.6	2943.6	2887.4	2810.7	2713.6	2585.9	2447.9	2330.4	2197.5	2079.9	1967.5
32.5°	3638.6	3638.6	3541.5	3429.1	3265.6	3061.2	2861.8	2672.8	2473.5	2304.8	2141.3
30°	4732.3	4732.3	4568.7	4364.3	4088.4	3735.7	3439.3	3132.7	2841.4	2596.1	2371.2
27.5°	6551.6	6474.9	6250.1	5877.0	5366.0	4732.3	4277.4	3761.3	3352.4	2953.8	2662.5
25°	9617.9	9474.8	9050.6	8350.5	7405.0	6357.4	5529.5	4650.5	4027.0	3459.8	3004.9
22.5°	14600.5	14339.9	13563.1	12295.7	10583.7	8907.5	7379.5	6025.2	4911.1	4119.0	3459.8
20°	22184.4	21729.6	20390.7	18223.8	15300.7	12709.7	9985.8	7977.4	6193.9	4911.1	4027.0
17.5°	33580.7	32793.7	30488.9	26773.6	22184.4	17963.2	13813.5	10507.1	7977.4	6025.2	4650.5
15°	50629.1	49249.3	45222.3	38818.9	31465.0	24770.3	18878.0	13813.5	9985.8	7379.5	5529.5
12.5°	79252.7	76462.4	68398.2	55821.4	44098.0	33095.2	24770.3	17963.2	12709.7	8907.5	6357.4
10°	126544.8	120780.2	104431.9	79687.1	60865.4	44098.0	31465.0	22184.4	15300.7	10583.7	7405.0
7.5°	203201.4	190829.0	157023.4	115358.0	79687.1	55821.4	38818.9	26773.6	18223.8	12295.7	8350.5
5°	308931.3	284033.2	221532.5	157023.4	104431.9	68398.2	45222.3	30488.9	20390.7	13563.1	9050.6
2.5°	412591.5	369679.1	284033.2	190829.0	120780.2	76462.4	49249.3	32793.7	21729.6	14339.9	9474.8
0°	457098.3	412591.5	308931.3	203201.4	126544.8	79252.7	50629.1	33580.7	22184.4	14600.5	9617.9



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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°	35.8	35.8	35.8	35.8	30.7	30.7	30.7	30.7	25.6	25.6	25.6
85°	81.8	76.7	76.7	71.5	71.5	66.4	66.4	61.3	61.3	56.2	51.1
82.5°	132.9	127.8	122.7	117.5	117.5	112.4	107.3	97.1	92.0	86.9	81.8
80°	199.3	189.1	184.0	173.8	168.6	158.4	148.2	143.1	132.9	127.8	117.5
77.5°	270.9	260.6	255.5	240.2	230.0	219.7	209.5	194.2	184.0	168.6	153.3
75°	352.6	342.4	327.1	311.7	301.5	286.2	270.9	255.5	235.1	219.7	204.4
72.5°	444.6	429.3	413.9	393.5	373.1	357.7	332.2	311.7	296.4	276.0	255.5
70°	536.6	521.3	500.8	480.4	454.8	434.4	408.8	383.3	357.7	332.2	306.6
67.5°	628.6	608.1	587.7	562.1	536.6	511.0	485.5	454.8	424.2	393.5	362.8
65°	715.5	695.0	669.5	643.9	618.4	587.7	557.0	526.4	490.6	454.8	424.2
62.5°	802.3	776.8	751.2	725.7	695.0	664.4	633.7	592.8	557.0	521.3	480.4
60°	884.1	858.6	833.0	802.3	771.7	735.9	700.1	664.4	623.5	582.6	541.7
57.5°	960.8	935.2	909.7	873.9	843.2	807.4	766.6	730.8	684.8	643.9	597.9
55°	1032.3	1006.8	976.1	945.4	914.8	873.9	833.0	792.1	746.1	700.1	649.0
52.5°	1103.9	1073.2	1042.5	1011.9	976.1	940.3	899.4	853.4	807.4	756.3	705.2
50°	1185.6	1149.8	1109.0	1073.2	1032.3	996.5	955.7	909.7	863.7	807.4	756.3
47.5°	1262.3	1226.5	1185.6	1139.6	1098.7	1052.8	1006.8	965.9	914.8	863.7	807.4
45°	1349.2	1298.1	1257.2	1211.2	1160.1	1109.0	1063.0	1011.9	965.9	909.7	853.4
42.5°	1441.1	1384.9	1328.7	1272.5	1226.5	1170.3	1114.1	1063.0	1006.8	955.7	899.4
40°	1548.5	1482.0	1410.5	1349.2	1287.8	1231.6	1170.3	1109.0	1052.8	996.5	940.3
37.5°	1686.4	1594.5	1502.5	1425.8	1354.3	1287.8	1226.5	1160.1	1098.7	1032.3	976.1
35°	1850.0	1722.2	1614.9	1507.6	1425.8	1349.2	1272.5	1211.2	1139.6	1073.2	1011.9
32.5°	2013.5	1875.5	1737.6	1614.9	1502.5	1410.5	1328.7	1257.2	1185.6	1109.0	1042.5
30°	2182.2	2028.8	1875.5	1722.2	1594.5	1482.0	1384.9	1298.1	1226.5	1149.8	1073.2
27.5°	2396.8	2182.2	2013.5	1850.0	1686.4	1548.5	1441.1	1349.2	1262.3	1185.6	1103.9
25°	2662.5	2371.2	2141.3	1967.5	1793.8	1635.3	1497.4	1395.2	1298.1	1221.4	1134.5
22.5°	2953.8	2596.1	2304.8	2079.9	1896.0	1712.0	1558.7	1441.1	1338.9	1246.9	1165.2
20°	3352.4	2841.4	2473.5	2197.5	1993.1	1798.9	1625.1	1482.0	1374.7	1277.6	1190.7
17.5°	3761.3	3132.7	2672.8	2330.4	2079.9	1875.5	1686.4	1528.0	1405.4	1303.2	1216.3
15°	4277.4	3439.3	2861.8	2447.9	2161.7	1947.1	1742.7	1568.9	1436.0	1328.7	1231.6
12.5°	4732.3	3735.7	3061.2	2585.9	2253.7	2008.4	1798.9	1609.8	1466.7	1349.2	1252.1
10°	5366.0	4088.4	3265.6	2713.6	2330.4	2064.6	1844.9	1645.6	1487.1	1369.6	1262.3
7.5°	5877.0	4364.3	3429.1	2810.7	2391.7	2105.5	1880.6	1671.1	1507.6	1379.8	1272.5
5°	6250.1	4568.7	3541.5	2887.4	2437.7	2131.1	1906.2	1691.6	1517.8	1390.0	1282.7
2.5°	6474.9	4732.3	3638.6	2943.6	2473.5	2156.6	1926.6	1706.9	1528.0	1400.3	1287.8
0°	6551.6	4732.3	3638.6	2943.6	2473.5	2156.6	1926.6	1706.9	1528.0	1400.3	1287.8



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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°	25.6	20.4	20.4	20.4	15.3	15.3	15.3	10.2	10.2	10.2	5.1
85°	46.0	46.0	40.9	35.8	35.8	30.7	25.6	25.6	20.4	15.3	15.3
82.5°	76.7	71.5	66.4	61.3	56.2	46.0	40.9	35.8	30.7	25.6	20.4
80°	107.3	102.2	92.0	81.8	76.7	66.4	61.3	51.1	40.9	35.8	30.7
77.5°	143.1	132.9	122.7	112.4	97.1	86.9	76.7	66.4	56.2	46.0	35.8
75°	189.1	168.6	153.3	138.0	122.7	107.3	92.0	81.8	66.4	56.2	40.9
72.5°	235.1	214.6	189.1	168.6	148.2	132.9	112.4	97.1	81.8	66.4	51.1
70°	281.1	255.5	230.0	204.4	178.9	153.3	132.9	112.4	92.0	76.7	61.3
67.5°	327.1	301.5	270.9	240.2	214.6	184.0	153.3	132.9	107.3	86.9	66.4
65°	383.3	347.5	311.7	281.1	245.3	214.6	178.9	148.2	122.7	97.1	76.7
62.5°	439.5	398.6	357.7	316.8	281.1	240.2	204.4	168.6	138.0	112.4	81.8
60°	495.7	449.7	403.7	357.7	311.7	270.9	230.0	189.1	153.3	122.7	92.0
57.5°	551.9	500.8	449.7	398.6	347.5	301.5	255.5	214.6	168.6	132.9	102.2
55°	603.0	551.9	495.7	439.5	383.3	327.1	281.1	235.1	189.1	143.1	107.3
52.5°	649.0	597.9	541.7	480.4	424.2	362.8	306.6	255.5	204.4	153.3	117.5
50°	700.1	643.9	582.6	521.3	454.8	393.5	332.2	276.0	219.7	168.6	127.8
47.5°	746.1	684.8	623.5	557.0	490.6	424.2	357.7	296.4	235.1	184.0	132.9
45°	792.1	730.8	664.4	592.8	526.4	454.8	383.3	311.7	255.5	194.2	143.1
42.5°	833.0	766.6	700.1	633.7	557.0	485.5	408.8	332.2	270.9	209.5	148.2
40°	873.9	807.4	735.9	664.4	587.7	511.0	434.4	357.7	286.2	219.7	158.4
37.5°	914.8	843.2	771.7	695.0	618.4	536.6	454.8	373.1	301.5	230.0	168.6
35°	945.4	873.9	802.3	725.7	643.9	562.1	480.4	393.5	311.7	240.2	173.8
32.5°	976.1	909.7	833.0	751.2	669.5	587.7	500.8	413.9	327.1	255.5	184.0
30°	1006.8	935.2	858.6	776.8	695.0	608.1	521.3	429.3	342.4	260.6	189.1
27.5°	1032.3	960.8	884.1	802.3	715.5	628.6	536.6	444.6	352.6	270.9	199.3
25°	1057.9	986.3	909.7	822.8	735.9	643.9	551.9	459.9	368.0	281.1	204.4
22.5°	1083.4	1001.6	930.1	843.2	756.3	664.4	567.3	470.2	378.2	286.2	209.5
20°	1103.9	1022.1	945.4	858.6	771.7	679.7	582.6	485.5	388.4	296.4	214.6
17.5°	1124.3	1042.5	960.8	879.0	787.0	689.9	592.8	495.7	393.5	301.5	219.7
15°	1144.7	1057.9	976.1	889.2	797.2	705.2	603.0	505.9	403.7	306.6	224.9
12.5°	1160.1	1068.1	986.3	904.5	807.4	715.5	613.3	511.0	408.8	311.7	224.9
10°	1170.3	1078.3	996.5	914.8	817.7	720.6	618.4	521.3	413.9	316.8	230.0
7.5°	1180.5	1088.5	1001.6	919.9	822.8	725.7	628.6	526.4	419.1	316.8	235.1
5°	1190.7	1093.6	1006.8	925.0	827.9	735.9	633.7	531.5	424.2	322.0	235.1
2.5°	1195.8	1098.7	1011.9	930.1	833.0	735.9	633.7	531.5	424.2	322.0	235.1
0°	1195.8	1098.7	1011.9	930.1	833.0	735.9	633.7	531.5	424.2	322.0	235.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.1	5.1	0.0	0.0
85°	10.2	5.1	5.1	0.0
82.5°	15.3	10.2	5.1	0.0
80°	20.4	15.3	5.1	0.0
77.5°	25.6	15.3	10.2	0.0
75°	30.7	20.4	10.2	0.0
72.5°	35.8	25.6	10.2	0.0
70°	40.9	25.6	15.3	0.0
67.5°	46.0	30.7	15.3	0.0
65°	56.2	35.8	15.3	0.0
62.5°	61.3	35.8	20.4	0.0
60°	66.4	40.9	20.4	0.0
57.5°	71.5	46.0	20.4	0.0
55°	76.7	46.0	25.6	0.0
52.5°	81.8	51.1	25.6	0.0
50°	86.9	56.2	25.6	0.0
47.5°	92.0	61.3	25.6	0.0
45°	97.1	61.3	30.7	0.0
42.5°	107.3	66.4	30.7	0.0
40°	112.4	66.4	30.7	0.0
37.5°	117.5	71.5	30.7	0.0
35°	117.5	71.5	35.8	0.0
32.5°	122.7	76.7	35.8	0.0
30°	127.8	76.7	35.8	0.0
27.5°	132.9	81.8	35.8	0.0
25°	138.0	81.8	35.8	0.0
22.5°	138.0	81.8	35.8	0.0
20°	143.1	86.9	40.9	0.0
17.5°	143.1	86.9	40.9	0.0
15°	148.2	86.9	40.9	0.0
12.5°	148.2	92.0	40.9	0.0
10°	148.2	92.0	40.9	0.0
7.5°	153.3	92.0	40.9	0.0
5°	153.3	92.0	40.9	0.0
2.5°	153.3	92.0	40.9	0.0
0°	153.3	92.0	40.9	0.0

(END OF REPORT)