

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: P723309

Luminaire Tested: **IFLD-L-SA7E-735-U-22**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P723309
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-735-U-22
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

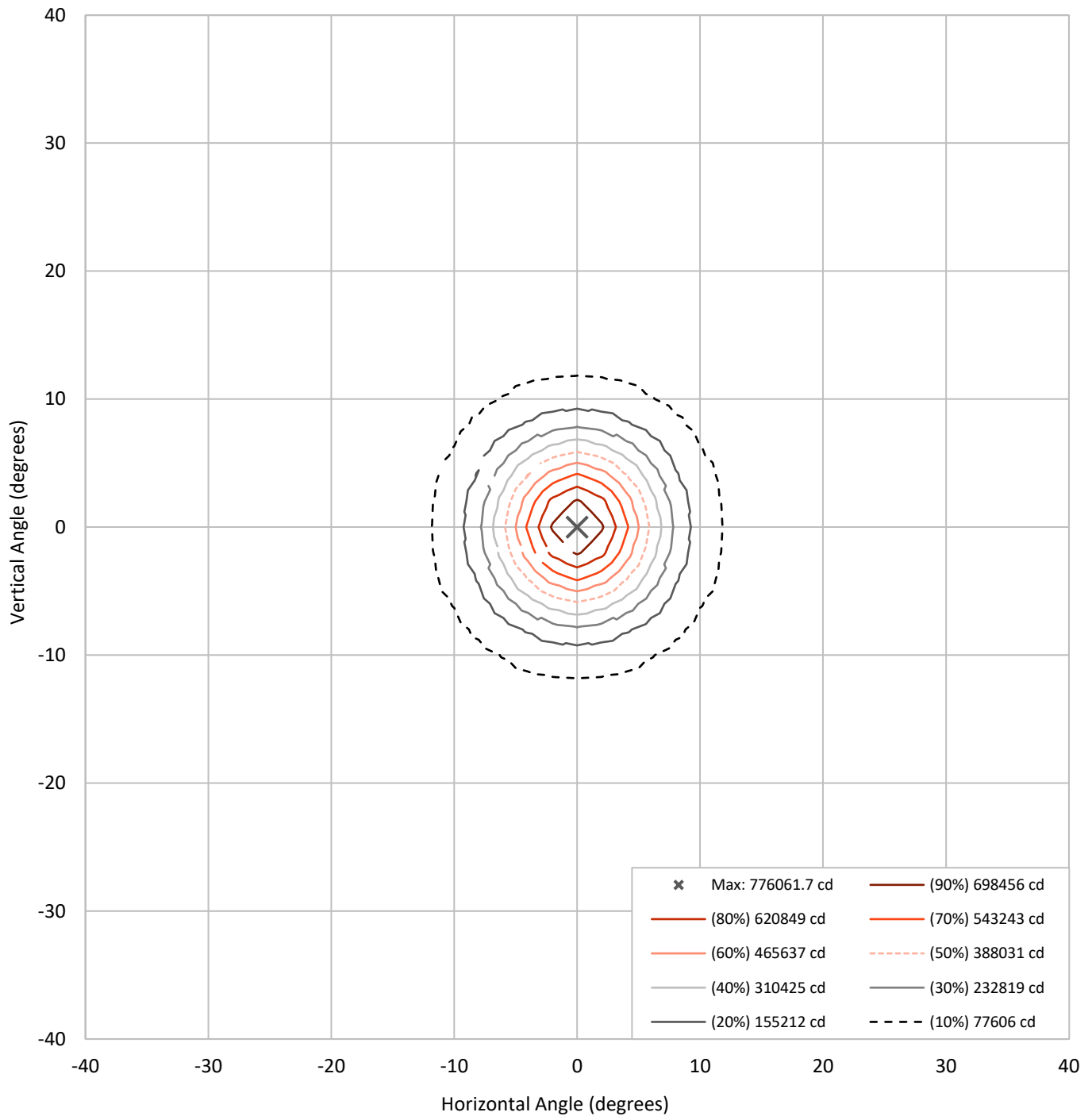
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	51967.1 lumens	Max Intensity:	776061.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	97.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	12588.3 lumens	Field Lumens:	27052.4 lumens
Beam Efficiency:	24.2%	Field Efficiency:	52.1%

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: 28.75 FT



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Iso-Candela Plot





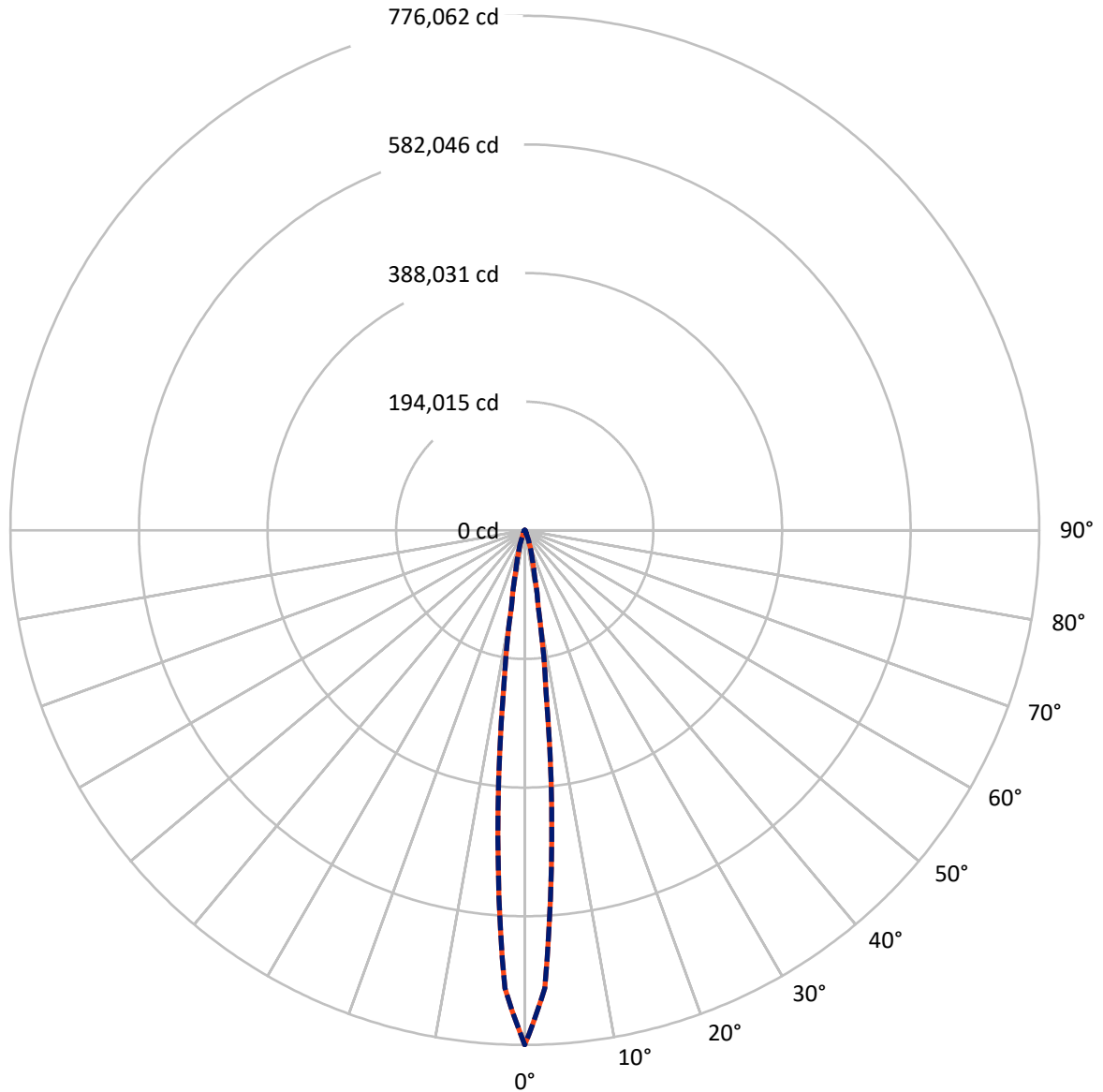
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Lumen Table

90	1.7	11.0		25.0		37.5		42.6		37.5		25.0		11.0		1.7			
80	1.7	11.0		25.0		37.5		42.6		37.5		25.0		11.0		1.7			
70	4.9	4.6	8.5	13.3	17.9	21.7	24.2	25.6	25.6	24.2	21.7	17.9	13.3	8.5	4.6	4.9			
60		6.3	12.0	17.8	22.5	26.0	28.3	29.6	29.6	28.3	26.0	22.5	17.8	12.0	6.3				
50	7.4	8.0	14.5	20.0	24.4	28.6	32.7	35.5	35.5	32.7	28.6	24.4	20.0	14.5	8.0	7.4			
40		9.3	15.8	21.1	27.0	36.4	46.4	53.4	53.4	46.4	36.4	27.0	21.1	15.8	9.3				
30	9.2	10.2	16.5	22.3	32.9	50.1	95.0	181.7	181.7	95.0	50.1	32.9	22.3	16.5	10.2	9.2			
20		10.7	16.8	24.0	39.5	89.5	439.6	1228.3	1228.3	439.6	89.5	39.5	24.0	16.8	10.7				
10	9.8	10.9	17.1	25.3	44.1	167.2	1197.1	8518.8	8518.8	1197.1	167.2	44.1	25.3	17.1	10.9	9.8			
0		10.9	17.1	25.3	44.1	167.2	1197.1	8518.8	8518.8	1197.1	167.2	44.1	25.3	17.1	10.9				
-10	9.2	10.7	16.8	24.0	39.5	89.5	439.6	1228.3	1228.3	439.6	89.5	39.5	24.0	16.8	10.7	9.2			
-20		10.2	16.5	22.3	32.9	50.1	95.0	181.7	181.7	95.0	50.1	32.9	22.3	16.5	10.2				
-30	7.4	9.3	15.8	21.1	27.0	36.4	46.4	53.4	53.4	46.4	36.4	27.0	21.1	15.8	9.3	7.4			
-40		8.0	14.5	20.0	24.4	28.6	32.7	35.5	35.5	32.7	28.6	24.4	20.0	14.5	8.0				
-50	4.9	6.3	12.0	17.8	22.5	26.0	28.3	29.6	29.6	28.3	26.0	22.5	17.8	12.0	6.3	4.9			
-60		4.6	8.5	13.3	17.9	21.7	24.2	25.6	25.6	24.2	21.7	17.9	13.3	8.5	4.6				
-70	1.7	11.0		25.0		37.5		42.6		37.5		25.0		11.0		1.7			
-80		11.0		25.0		37.5		42.6		37.5		25.0		11.0					
-90	1.7	11.0		25.0		37.5		42.6		37.5		25.0		11.0		1.7			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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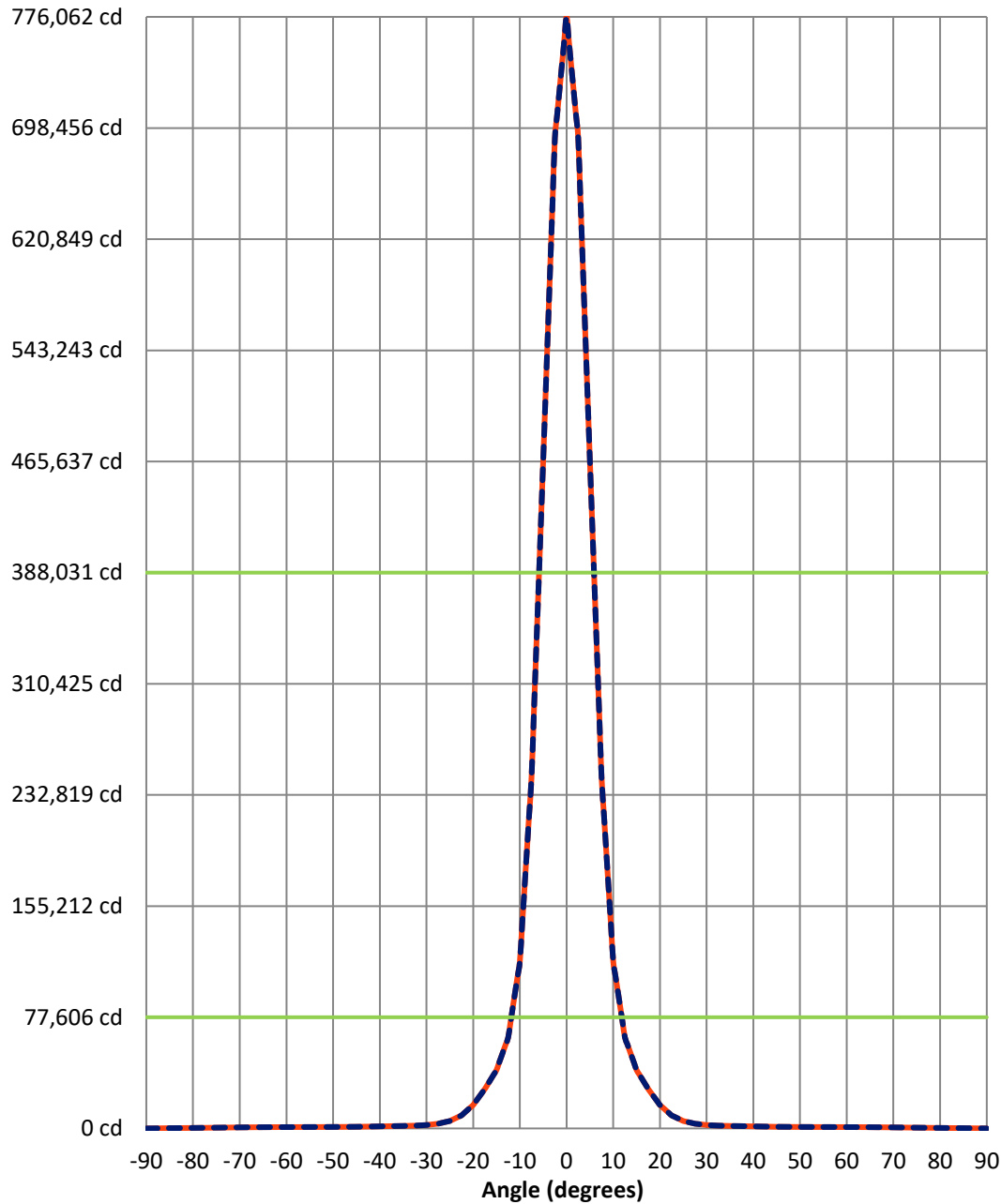
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 11.8°
 V Angle: 11.8°
 Lumens: 12588.3
 Efficiency: 24.2%

Field:
 H Angle: 23.7°
 V Angle: 23.7°
 Lumens: 27052.4
 Efficiency: 52.1%

Spill:
 Lumens: 24914.7
 Efficiency: 47.9%

— 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°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	69.0	69.0	69.0
85°	199.4	199.4	199.4	199.4	199.4	191.7	191.7	191.7	184.1	184.1	176.4
82.5°	268.4	268.4	268.4	268.4	268.4	260.8	260.8	260.8	253.1	253.1	245.4
80°	345.1	345.1	345.1	345.1	337.5	337.5	337.5	329.8	329.8	322.1	314.5
77.5°	429.5	429.5	429.5	429.5	421.8	421.8	414.2	406.5	406.5	398.8	391.2
75°	521.5	521.5	521.5	513.9	513.9	506.2	498.5	498.5	490.9	475.5	467.9
72.5°	621.2	621.2	621.2	613.6	613.6	605.9	598.2	590.6	575.2	567.6	552.2
70°	721.0	721.0	721.0	713.3	705.6	697.9	690.3	682.6	667.3	659.6	644.3
67.5°	797.7	797.7	797.7	790.0	790.0	782.3	774.6	767.0	751.6	744.0	728.6
65°	859.0	859.0	859.0	851.3	851.3	843.7	836.0	828.3	820.7	813.0	797.7
62.5°	905.0	905.0	905.0	897.4	897.4	889.7	889.7	882.0	874.3	866.7	851.3
60°	928.0	928.0	928.0	928.0	920.4	920.4	920.4	912.7	912.7	905.0	897.4
57.5°	958.7	958.7	958.7	958.7	951.0	951.0	943.4	935.7	935.7	928.0	920.4
55°	974.1	974.1	974.1	974.1	974.1	966.4	966.4	966.4	958.7	951.0	943.4
52.5°	997.1	997.1	997.1	997.1	989.4	989.4	981.7	981.7	974.1	966.4	966.4
50°	1027.7	1027.7	1027.7	1020.1	1020.1	1012.4	1004.7	997.1	997.1	989.4	981.7
47.5°	1073.8	1073.8	1073.8	1066.1	1058.4	1050.8	1043.1	1027.7	1020.1	1012.4	997.1
45°	1142.8	1142.8	1135.1	1127.5	1119.8	1104.4	1089.1	1073.8	1058.4	1043.1	1027.7
42.5°	1280.8	1280.8	1265.5	1250.2	1227.2	1196.5	1165.8	1135.1	1112.1	1089.1	1066.1
40°	1441.9	1441.9	1426.6	1403.6	1372.9	1342.2	1296.2	1250.2	1204.1	1142.8	1112.1
37.5°	1603.0	1603.0	1587.6	1564.6	1533.9	1487.9	1441.9	1388.2	1326.9	1257.8	1196.5
35°	1725.7	1725.7	1710.4	1695.0	1664.3	1633.7	1587.6	1533.9	1464.9	1388.2	1311.5
32.5°	1940.4	1940.4	1909.8	1871.4	1825.4	1764.0	1702.7	1656.7	1603.0	1518.6	1434.2
30°	2377.6	2377.6	2308.6	2231.9	2116.8	1978.8	1879.1	1787.0	1702.7	1633.7	1549.3
27.5°	3298.0	3259.6	3144.6	2952.8	2699.7	2377.6	2193.5	1986.5	1848.4	1725.7	1649.0
25°	5200.1	5108.0	4847.3	4417.8	3827.2	3198.3	2784.1	2346.9	2093.8	1886.8	1748.7
22.5°	9096.3	8889.2	8283.3	7293.9	5951.7	4755.2	3811.9	3029.5	2469.7	2132.2	1886.8
20°	16351.9	15922.4	14633.8	12563.0	9771.2	7616.0	5491.5	4180.0	3113.9	2469.7	2093.8
17.5°	27503.7	26736.7	24474.1	20846.3	16351.9	12309.9	8482.7	5898.0	4180.0	3029.5	2346.9
15°	40757.0	39683.2	36553.9	31576.3	25432.8	18882.9	13184.3	8482.7	5491.5	3811.9	2784.1
12.5°	63520.7	61304.2	54884.6	44883.3	35679.6	27028.1	18882.9	12309.9	7616.0	4755.2	3198.3
10°	116549.2	110083.6	91753.0	64003.9	48894.5	35679.6	25432.8	16351.9	9771.2	5951.7	3827.2
7.5°	245239.6	216501.2	156286.1	104001.6	64003.9	44883.3	31576.3	20846.3	12563.0	7293.9	4417.8
5°	466342.7	407638.5	280857.9	156286.1	91753.0	54884.6	36553.9	24474.1	14633.8	8283.3	4847.3
2.5°	691326.5	610173.1	407638.5	216501.2	110083.6	61304.2	39683.2	26736.7	15922.4	8889.2	5108.0
0°	776061.7	691326.5	466342.7	245239.6	116549.2	63520.7	40757.0	27503.7	16351.9	9096.3	5200.1



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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°	69.0	69.0	61.4	61.4	61.4	61.4	53.7	53.7	53.7	46.0	46.0
85°	168.7	168.7	161.1	153.4	145.7	145.7	138.1	130.4	122.7	115.0	99.7
82.5°	245.4	237.8	237.8	230.1	222.4	222.4	214.8	207.1	199.4	191.7	176.4
80°	306.8	306.8	299.1	291.4	283.8	276.1	260.8	253.1	245.4	237.8	230.1
77.5°	383.5	375.8	360.5	352.8	345.1	329.8	322.1	306.8	299.1	283.8	268.4
75°	460.2	444.8	437.2	421.8	406.5	391.2	375.8	360.5	345.1	329.8	314.5
72.5°	536.9	521.5	513.9	490.9	475.5	460.2	437.2	421.8	406.5	383.5	360.5
70°	628.9	613.6	590.6	575.2	552.2	529.2	506.2	483.2	460.2	437.2	414.2
67.5°	713.3	697.9	674.9	651.9	628.9	605.9	575.2	552.2	521.5	490.9	467.9
65°	782.3	767.0	751.6	728.6	705.6	674.9	644.3	613.6	582.9	552.2	521.5
62.5°	836.0	820.7	805.3	790.0	767.0	744.0	721.0	682.6	651.9	613.6	575.2
60°	882.0	874.3	859.0	836.0	820.7	797.7	774.6	744.0	713.3	667.3	628.9
57.5°	912.7	905.0	897.4	882.0	866.7	843.7	820.7	790.0	759.3	728.6	682.6
55°	935.7	928.0	920.4	912.7	897.4	882.0	859.0	836.0	805.3	774.6	736.3
52.5°	958.7	951.0	935.7	928.0	920.4	905.0	889.7	866.7	843.7	813.0	774.6
50°	974.1	966.4	958.7	951.0	935.7	920.4	912.7	897.4	874.3	843.7	813.0
47.5°	989.4	981.7	974.1	966.4	958.7	943.4	928.0	912.7	897.4	874.3	843.7
45°	1012.4	997.1	989.4	974.1	966.4	958.7	943.4	928.0	912.7	897.4	866.7
42.5°	1043.1	1020.1	1012.4	997.1	981.7	974.1	958.7	943.4	928.0	912.7	889.7
40°	1081.4	1058.4	1035.4	1012.4	997.1	981.7	974.1	958.7	943.4	920.4	905.0
37.5°	1135.1	1096.8	1066.1	1035.4	1012.4	997.1	981.7	966.4	958.7	935.7	920.4
35°	1234.8	1150.5	1104.4	1066.1	1035.4	1012.4	997.1	974.1	966.4	951.0	928.0
32.5°	1342.2	1250.2	1158.1	1104.4	1066.1	1035.4	1012.4	989.4	974.1	958.7	935.7
30°	1457.2	1349.9	1250.2	1150.5	1096.8	1058.4	1020.1	997.1	981.7	966.4	951.0
27.5°	1564.6	1457.2	1342.2	1234.8	1135.1	1081.4	1043.1	1012.4	989.4	974.1	958.7
25°	1649.0	1549.3	1434.2	1311.5	1196.5	1112.1	1066.1	1027.7	997.1	981.7	966.4
22.5°	1725.7	1633.7	1518.6	1388.2	1257.8	1142.8	1089.1	1043.1	1012.4	989.4	966.4
20°	1848.4	1702.7	1603.0	1464.9	1326.9	1204.1	1112.1	1058.4	1020.1	997.1	974.1
17.5°	1986.5	1787.0	1656.7	1533.9	1388.2	1250.2	1135.1	1073.8	1027.7	997.1	981.7
15°	2193.5	1879.1	1702.7	1587.6	1441.9	1296.2	1165.8	1089.1	1043.1	1004.7	981.7
12.5°	2377.6	1978.8	1764.0	1633.7	1487.9	1342.2	1196.5	1104.4	1050.8	1012.4	989.4
10°	2699.7	2116.8	1825.4	1664.3	1533.9	1372.9	1227.2	1119.8	1058.4	1020.1	989.4
7.5°	2952.8	2231.9	1871.4	1695.0	1564.6	1403.6	1250.2	1127.5	1066.1	1020.1	997.1
5°	3144.6	2308.6	1909.8	1710.4	1587.6	1426.6	1265.5	1135.1	1073.8	1027.7	997.1
2.5°	3259.6	2377.6	1940.4	1725.7	1603.0	1441.9	1280.8	1142.8	1073.8	1027.7	997.1
0°	3298.0	2377.6	1940.4	1725.7	1603.0	1441.9	1280.8	1142.8	1073.8	1027.7	997.1



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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°	46.0	38.3	38.3	38.3	30.7	30.7	23.0	23.0	23.0	15.3	15.3
85°	92.0	84.4	76.7	69.0	61.4	61.4	53.7	46.0	38.3	30.7	23.0
82.5°	161.1	153.4	138.1	122.7	107.4	92.0	76.7	69.0	61.4	46.0	38.3
80°	222.4	207.1	199.4	176.4	161.1	138.1	122.7	99.7	76.7	69.0	53.7
77.5°	260.8	245.4	230.1	222.4	207.1	184.1	161.1	138.1	115.0	84.4	69.0
75°	299.1	283.8	268.4	253.1	237.8	214.8	199.4	176.4	145.7	115.0	76.7
72.5°	345.1	322.1	306.8	283.8	260.8	245.4	222.4	207.1	176.4	138.1	99.7
70°	391.2	368.1	337.5	314.5	291.4	268.4	245.4	222.4	199.4	161.1	122.7
67.5°	437.2	406.5	383.5	352.8	322.1	299.1	268.4	245.4	214.8	184.1	138.1
65°	483.2	452.5	421.8	391.2	352.8	322.1	291.4	260.8	237.8	207.1	161.1
62.5°	536.9	498.5	460.2	421.8	391.2	352.8	314.5	283.8	253.1	222.4	176.4
60°	590.6	544.6	498.5	460.2	421.8	383.5	337.5	306.8	268.4	230.1	199.4
57.5°	636.6	590.6	544.6	498.5	452.5	406.5	368.1	322.1	283.8	245.4	207.1
55°	690.3	636.6	590.6	536.9	483.2	437.2	391.2	345.1	299.1	260.8	222.4
52.5°	736.3	682.6	628.9	575.2	521.5	467.9	414.2	360.5	314.5	268.4	230.1
50°	774.6	728.6	667.3	613.6	552.2	490.9	437.2	383.5	329.8	283.8	237.8
47.5°	805.3	759.3	713.3	651.9	582.9	521.5	460.2	406.5	345.1	299.1	245.4
45°	836.0	790.0	744.0	682.6	613.6	552.2	483.2	421.8	360.5	306.8	253.1
42.5°	859.0	820.7	774.6	721.0	644.3	575.2	506.2	437.2	375.8	322.1	260.8
40°	882.0	843.7	797.7	744.0	674.9	605.9	529.2	460.2	391.2	329.8	276.1
37.5°	897.4	866.7	820.7	767.0	705.6	628.9	552.2	475.5	406.5	345.1	283.8
35°	912.7	882.0	836.0	790.0	728.6	651.9	575.2	490.9	421.8	352.8	291.4
32.5°	920.4	897.4	859.0	805.3	751.6	674.9	590.6	513.9	437.2	360.5	299.1
30°	928.0	905.0	874.3	820.7	767.0	697.9	613.6	521.5	444.8	375.8	306.8
27.5°	935.7	912.7	882.0	836.0	782.3	713.3	628.9	536.9	460.2	383.5	306.8
25°	943.4	920.4	897.4	851.3	797.7	728.6	644.3	552.2	467.9	391.2	314.5
22.5°	951.0	928.0	905.0	866.7	813.0	744.0	659.6	567.6	475.5	398.8	322.1
20°	958.7	935.7	912.7	874.3	820.7	751.6	667.3	575.2	490.9	406.5	329.8
17.5°	966.4	935.7	912.7	882.0	828.3	767.0	682.6	590.6	498.5	406.5	329.8
15°	966.4	943.4	920.4	889.7	836.0	774.6	690.3	598.2	498.5	414.2	337.5
12.5°	966.4	951.0	920.4	889.7	843.7	782.3	697.9	605.9	506.2	421.8	337.5
10°	974.1	951.0	920.4	897.4	851.3	790.0	705.6	613.6	513.9	421.8	337.5
7.5°	974.1	958.7	928.0	897.4	851.3	790.0	713.3	613.6	513.9	429.5	345.1
5°	974.1	958.7	928.0	905.0	859.0	797.7	721.0	621.2	521.5	429.5	345.1
2.5°	974.1	958.7	928.0	905.0	859.0	797.7	721.0	621.2	521.5	429.5	345.1
0°	974.1	958.7	928.0	905.0	859.0	797.7	721.0	621.2	521.5	429.5	345.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.7	7.7	0.0	0.0
85°	23.0	15.3	7.7	0.0
82.5°	30.7	23.0	7.7	0.0
80°	38.3	23.0	15.3	0.0
77.5°	46.0	30.7	15.3	0.0
75°	61.4	38.3	23.0	0.0
72.5°	69.0	46.0	23.0	0.0
70°	76.7	53.7	23.0	0.0
67.5°	92.0	61.4	30.7	0.0
65°	107.4	61.4	30.7	0.0
62.5°	122.7	69.0	38.3	0.0
60°	138.1	76.7	38.3	0.0
57.5°	153.4	84.4	38.3	0.0
55°	161.1	92.0	46.0	0.0
52.5°	176.4	99.7	46.0	0.0
50°	191.7	115.0	46.0	0.0
47.5°	199.4	122.7	53.7	0.0
45°	207.1	130.4	53.7	0.0
42.5°	214.8	138.1	53.7	0.0
40°	222.4	145.7	61.4	0.0
37.5°	222.4	145.7	61.4	0.0
35°	230.1	153.4	61.4	0.0
32.5°	237.8	161.1	61.4	0.0
30°	237.8	168.7	69.0	0.0
27.5°	245.4	168.7	69.0	0.0
25°	245.4	176.4	69.0	0.0
22.5°	253.1	184.1	69.0	0.0
20°	253.1	184.1	69.0	0.0
17.5°	260.8	191.7	76.7	0.0
15°	260.8	191.7	76.7	0.0
12.5°	260.8	191.7	76.7	0.0
10°	268.4	199.4	76.7	0.0
7.5°	268.4	199.4	76.7	0.0
5°	268.4	199.4	76.7	0.0
2.5°	268.4	199.4	76.7	0.0
0°	268.4	199.4	76.7	0.0

(END OF REPORT)