

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: P723367

Luminaire Tested: **IFLD-L-SA7E-750-U-22**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P723367
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-750-U-22
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

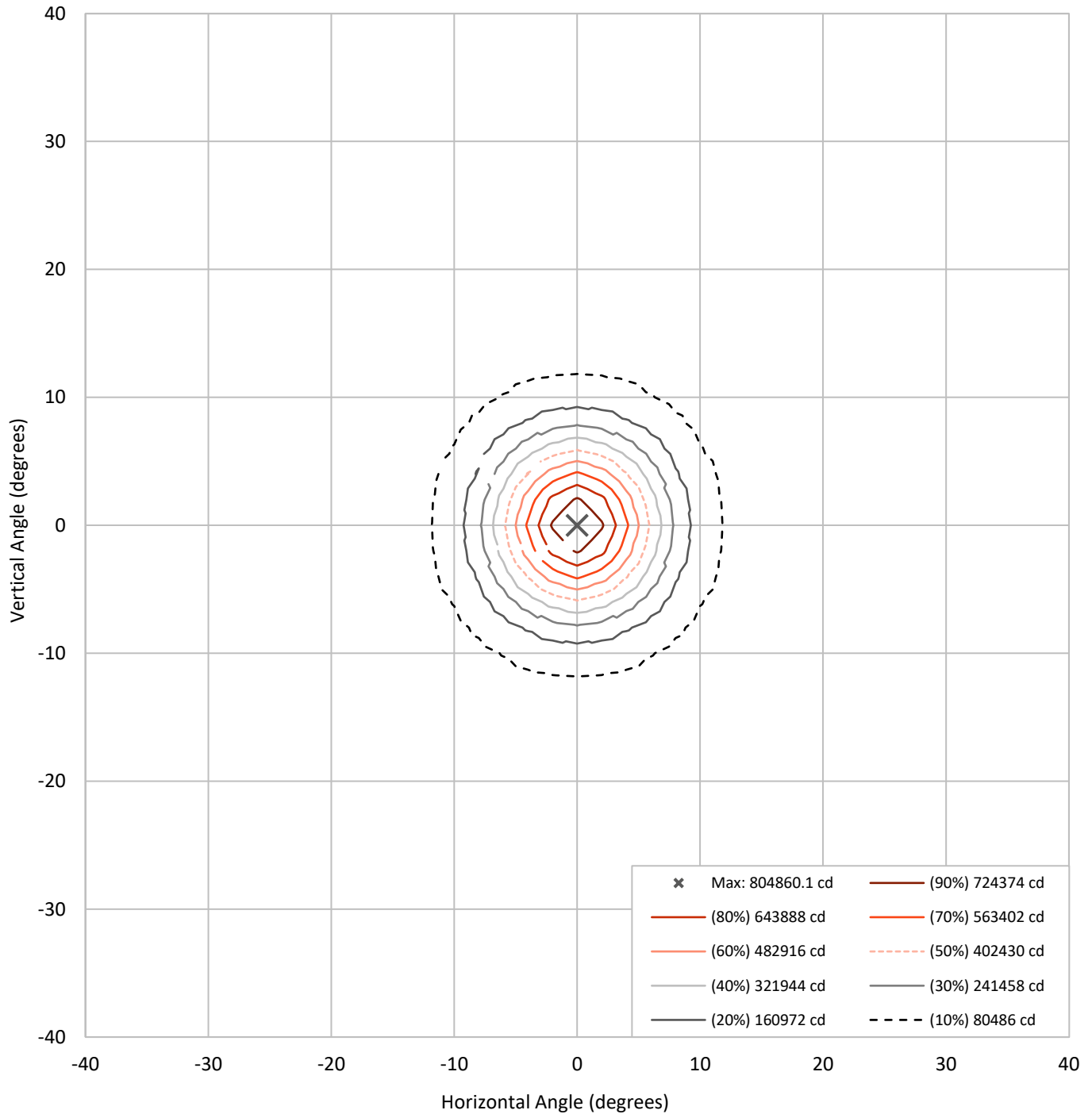
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	53895.5 lumens	Max Intensity:	804860.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	101.2 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	13055.4 lumens	Field Lumens:	28056.2 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





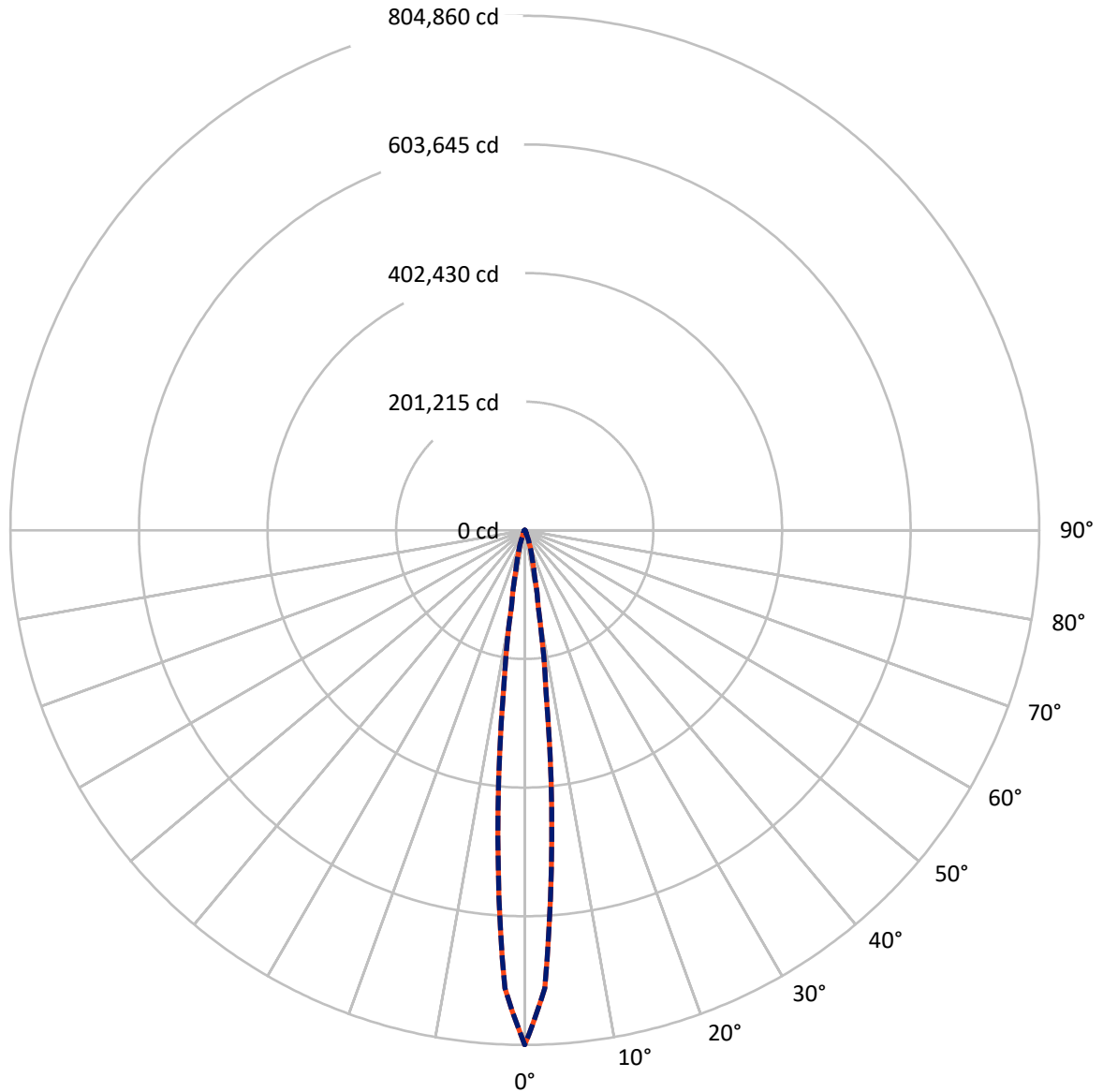
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Lumen Table

90	1.7		11.4		25.9		38.9		44.2		38.9		25.9		11.4		1.7		
80	1.7		11.4		25.9		38.9		44.2		38.9		25.9		11.4		1.7		
70	5.1	4.8	8.9	13.7	18.6	22.5	25.1	26.5	26.5	25.1	22.5	18.6	13.7	8.9	4.8	5.1			
60		6.6	12.4	18.5	23.3	26.9	29.4	30.7	30.7	29.4	26.9	23.3	18.5	12.4	6.6				
50	7.7	8.3	15.0	20.7	25.3	29.6	33.9	36.8	36.8	33.9	29.6	25.3	20.7	15.0	8.3	7.7			
40		9.7	16.4	21.9	28.0	37.7	48.2	55.4	55.4	48.2	37.7	28.0	21.9	16.4	9.7				
30	9.5	10.6	17.1	23.1	34.2	51.9	98.5	188.5	188.5	98.5	51.9	34.2	23.1	17.1	10.6	9.5			
20		11.1	17.5	24.9	41.0	92.9	455.9	1273.8	1273.8	455.9	92.9	41.0	24.9	17.5	11.1				
10	10.2	11.3	17.7	26.3	45.7	173.4	1241.6	8834.9	8834.9	1241.6	173.4	45.7	26.3	17.7	11.3	10.2			
0		11.3	17.7	26.3	45.7	173.4	1241.6	8834.9	8834.9	1241.6	173.4	45.7	26.3	17.7	11.3				
-10	9.5	11.1	17.5	24.9	41.0	92.9	455.9	1273.8	1273.8	455.9	92.9	41.0	24.9	17.5	11.1	9.5			
-20		10.6	17.1	23.1	34.2	51.9	98.5	188.5	188.5	98.5	51.9	34.2	23.1	17.1	10.6				
-30	7.7	9.7	16.4	21.9	28.0	37.7	48.2	55.4	55.4	48.2	37.7	28.0	21.9	16.4	9.7	7.7			
-40		8.3	15.0	20.7	25.3	29.6	33.9	36.8	36.8	33.9	29.6	25.3	20.7	15.0	8.3				
-50	5.1	6.6	12.4	18.5	23.3	26.9	29.4	30.7	30.7	29.4	26.9	23.3	18.5	12.4	6.6	5.1			
-60		4.8	8.9	13.7	18.6	22.5	25.1	26.5	26.5	25.1	22.5	18.6	13.7	8.9	4.8				
-70	1.7	11.4		25.9		38.9		44.2		38.9		25.9		11.4		1.7			
-80		11.4		25.9		38.9		44.2		38.9		25.9		11.4					
-90	1.7		11.4		25.9		38.9		44.2		38.9		25.9		11.4		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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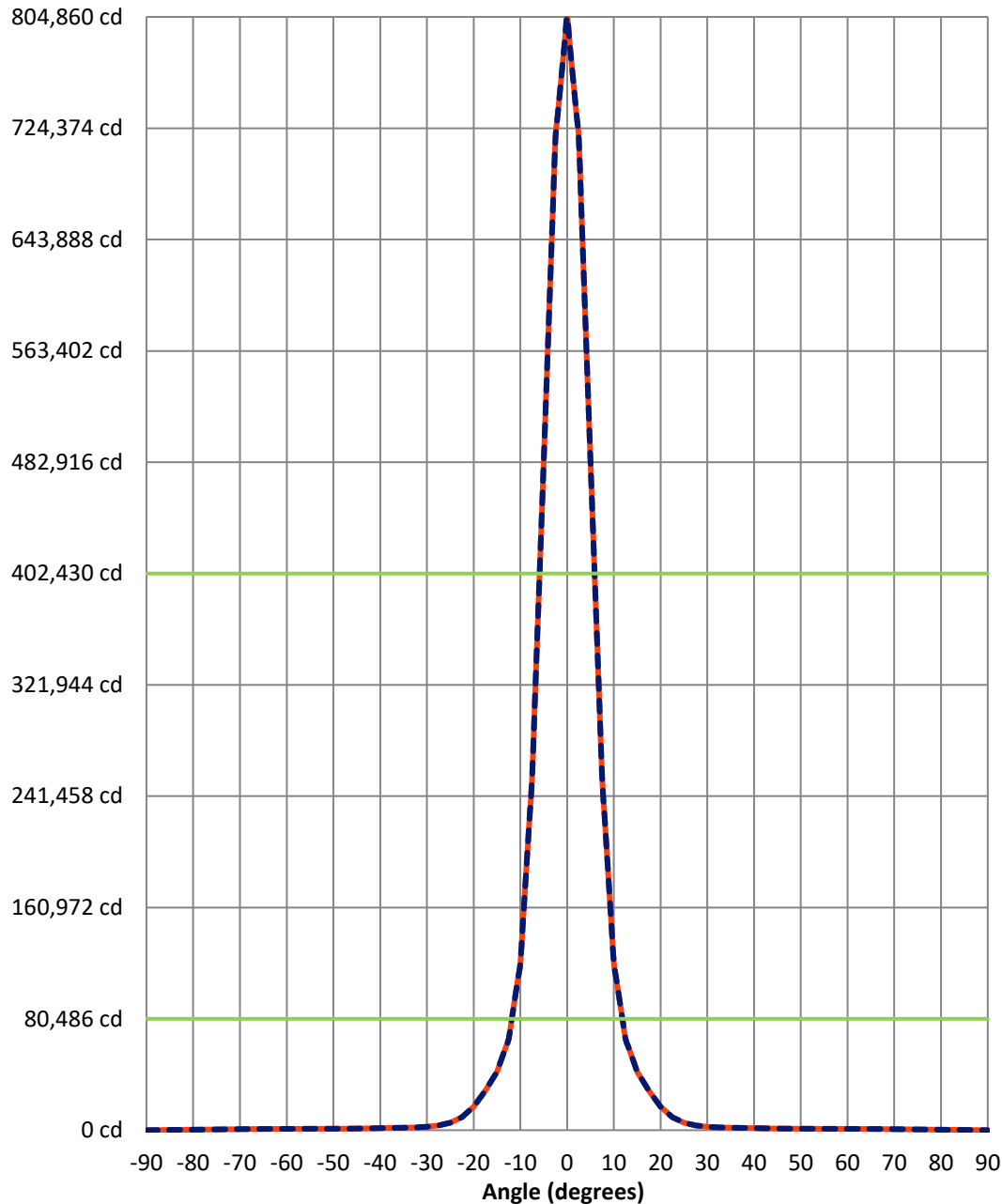
Luminous Intensity Polar Plot



— 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: 13055.4
 Efficiency: 24.2%

Field:
 H Angle: 23.7°
 V Angle: 23.7°
 Lumens: 28056.2
 Efficiency: 52.1%

Spill:
 Lumens: 25839.3
 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°	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	71.6	71.6	71.6
85°	206.8	206.8	206.8	206.8	206.8	198.9	198.9	198.9	190.9	190.9	182.9
82.5°	278.4	278.4	278.4	278.4	278.4	270.4	270.4	270.4	262.5	262.5	254.5
80°	357.9	357.9	357.9	357.9	350.0	350.0	350.0	342.0	342.0	334.1	326.1
77.5°	445.4	445.4	445.4	445.4	437.5	437.5	429.5	421.6	421.6	413.6	405.7
75°	540.9	540.9	540.9	532.9	532.9	525.0	517.0	517.0	509.1	493.2	485.2
72.5°	644.3	644.3	644.3	636.3	636.3	628.4	620.4	612.5	596.6	588.6	572.7
70°	747.7	747.7	747.7	739.8	731.8	723.8	715.9	707.9	692.0	684.1	668.2
67.5°	827.3	827.3	827.3	819.3	819.3	811.3	803.4	795.4	779.5	771.6	755.7
65°	890.9	890.9	890.9	882.9	882.9	875.0	867.0	859.1	851.1	843.2	827.3
62.5°	938.6	938.6	938.6	930.7	930.7	922.7	922.7	914.7	906.8	898.8	882.9
60°	962.5	962.5	962.5	962.5	954.5	954.5	954.5	946.6	946.6	938.6	930.7
57.5°	994.3	994.3	994.3	994.3	986.3	986.3	978.4	970.4	970.4	962.5	954.5
55°	1010.2	1010.2	1010.2	1010.2	1010.2	1002.2	1002.2	1002.2	994.3	986.3	978.4
52.5°	1034.1	1034.1	1034.1	1034.1	1026.1	1026.1	1018.2	1018.2	1010.2	1002.2	1002.2
50°	1065.9	1065.9	1065.9	1057.9	1057.9	1050.0	1042.0	1034.1	1034.1	1026.1	1018.2
47.5°	1113.6	1113.6	1113.6	1105.7	1097.7	1089.7	1081.8	1065.9	1057.9	1050.0	1034.1
45°	1185.2	1185.2	1177.2	1169.3	1161.3	1145.4	1129.5	1113.6	1097.7	1081.8	1065.9
42.5°	1328.4	1328.4	1312.5	1296.6	1272.7	1240.9	1209.1	1177.2	1153.4	1129.5	1105.7
40°	1495.4	1495.4	1479.5	1455.6	1423.8	1392.0	1344.3	1296.6	1248.8	1185.2	1153.4
37.5°	1662.5	1662.5	1646.5	1622.7	1590.9	1543.1	1495.4	1439.7	1376.1	1304.5	1240.9
35°	1789.7	1789.7	1773.8	1757.9	1726.1	1694.3	1646.5	1590.9	1519.3	1439.7	1360.2
32.5°	2012.4	2012.4	1980.6	1940.9	1893.1	1829.5	1765.9	1718.1	1662.5	1575.0	1487.5
30°	2465.8	2465.8	2394.3	2314.7	2195.4	2052.2	1948.8	1853.4	1765.9	1694.3	1606.8
27.5°	3420.4	3380.6	3261.3	3062.4	2799.9	2465.8	2274.9	2060.2	1917.0	1789.7	1710.2
25°	5393.0	5297.6	5027.1	4581.7	3969.2	3317.0	2887.4	2434.0	2171.5	1956.8	1813.6
22.5°	9433.9	9219.1	8590.7	7564.6	6172.6	4931.7	3953.3	3142.0	2561.3	2211.3	1956.8
20°	16958.7	16513.2	15176.9	13029.2	10133.8	7898.7	5695.3	4335.1	3229.5	2561.3	2171.5
17.5°	28524.3	27728.8	25382.3	21619.9	16958.7	12766.7	8797.5	6116.9	4335.1	3142.0	2434.0
15°	42269.4	41155.8	37910.4	32748.0	26376.6	19583.6	13673.5	8797.5	5695.3	3953.3	2887.4
12.5°	65877.9	63579.1	56921.3	46548.8	37003.6	28031.1	19583.6	12766.7	7898.7	4931.7	3317.0
10°	120874.2	114168.7	95157.8	66379.0	50708.9	37003.6	26376.6	16958.7	10133.8	6172.6	3969.2
7.5°	254340.1	224535.2	162085.6	107860.9	66379.0	46548.8	32748.0	21619.9	13029.2	7564.6	4581.7
5°	483647.9	422765.3	291280.1	162085.6	95157.8	56921.3	37910.4	25382.3	15176.9	8590.7	5027.1
2.5°	716980.6	632815.7	422765.3	224535.2	114168.7	63579.1	41155.8	27728.8	16513.2	9219.1	5297.6
0°	804860.1	716980.6	483647.9	254340.1	120874.2	65877.9	42269.4	28524.3	16958.7	9433.9	5393.0



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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°	71.6	71.6	63.6	63.6	63.6	63.6	55.7	55.7	55.7	47.7	47.7
85°	175.0	175.0	167.0	159.1	151.1	151.1	143.2	135.2	127.3	119.3	103.4
82.5°	254.5	246.6	246.6	238.6	230.7	230.7	222.7	214.8	206.8	198.9	182.9
80°	318.2	318.2	310.2	302.3	294.3	286.4	270.4	262.5	254.5	246.6	238.6
77.5°	397.7	389.8	373.9	365.9	357.9	342.0	334.1	318.2	310.2	294.3	278.4
75°	477.3	461.4	453.4	437.5	421.6	405.7	389.8	373.9	357.9	342.0	326.1
72.5°	556.8	540.9	532.9	509.1	493.2	477.3	453.4	437.5	421.6	397.7	373.9
70°	652.3	636.3	612.5	596.6	572.7	548.8	525.0	501.1	477.3	453.4	429.5
67.5°	739.8	723.8	700.0	676.1	652.3	628.4	596.6	572.7	540.9	509.1	485.2
65°	811.3	795.4	779.5	755.7	731.8	700.0	668.2	636.3	604.5	572.7	540.9
62.5°	867.0	851.1	835.2	819.3	795.4	771.6	747.7	707.9	676.1	636.3	596.6
60°	914.7	906.8	890.9	867.0	851.1	827.3	803.4	771.6	739.8	692.0	652.3
57.5°	946.6	938.6	930.7	914.7	898.8	875.0	851.1	819.3	787.5	755.7	707.9
55°	970.4	962.5	954.5	946.6	930.7	914.7	890.9	867.0	835.2	803.4	763.6
52.5°	994.3	986.3	970.4	962.5	954.5	938.6	922.7	898.8	875.0	843.2	803.4
50°	1010.2	1002.2	994.3	986.3	970.4	954.5	946.6	930.7	906.8	875.0	843.2
47.5°	1026.1	1018.2	1010.2	1002.2	994.3	978.4	962.5	946.6	930.7	906.8	875.0
45°	1050.0	1034.1	1026.1	1010.2	1002.2	994.3	978.4	962.5	946.6	930.7	898.8
42.5°	1081.8	1057.9	1050.0	1034.1	1018.2	1010.2	994.3	978.4	962.5	946.6	922.7
40°	1121.6	1097.7	1073.8	1050.0	1034.1	1018.2	1010.2	994.3	978.4	954.5	938.6
37.5°	1177.2	1137.5	1105.7	1073.8	1050.0	1034.1	1018.2	1002.2	994.3	970.4	954.5
35°	1280.6	1193.2	1145.4	1105.7	1073.8	1050.0	1034.1	1010.2	1002.2	986.3	962.5
32.5°	1392.0	1296.6	1201.1	1145.4	1105.7	1073.8	1050.0	1026.1	1010.2	994.3	970.4
30°	1511.3	1400.0	1296.6	1193.2	1137.5	1097.7	1057.9	1034.1	1018.2	1002.2	986.3
27.5°	1622.7	1511.3	1392.0	1280.6	1177.2	1121.6	1081.8	1050.0	1026.1	1010.2	994.3
25°	1710.2	1606.8	1487.5	1360.2	1240.9	1153.4	1105.7	1065.9	1034.1	1018.2	1002.2
22.5°	1789.7	1694.3	1575.0	1439.7	1304.5	1185.2	1129.5	1081.8	1050.0	1026.1	1002.2
20°	1917.0	1765.9	1662.5	1519.3	1376.1	1248.8	1153.4	1097.7	1057.9	1034.1	1010.2
17.5°	2060.2	1853.4	1718.1	1590.9	1439.7	1296.6	1177.2	1113.6	1065.9	1034.1	1018.2
15°	2274.9	1948.8	1765.9	1646.5	1495.4	1344.3	1209.1	1129.5	1081.8	1042.0	1018.2
12.5°	2465.8	2052.2	1829.5	1694.3	1543.1	1392.0	1240.9	1145.4	1089.7	1050.0	1026.1
10°	2799.9	2195.4	1893.1	1726.1	1590.9	1423.8	1272.7	1161.3	1097.7	1057.9	1026.1
7.5°	3062.4	2314.7	1940.9	1757.9	1622.7	1455.6	1296.6	1169.3	1105.7	1057.9	1034.1
5°	3261.3	2394.3	1980.6	1773.8	1646.5	1479.5	1312.5	1177.2	1113.6	1065.9	1034.1
2.5°	3380.6	2465.8	2012.4	1789.7	1662.5	1495.4	1328.4	1185.2	1113.6	1065.9	1034.1
0°	3420.4	2465.8	2012.4	1789.7	1662.5	1495.4	1328.4	1185.2	1113.6	1065.9	1034.1



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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°	47.7	39.8	39.8	39.8	31.8	31.8	23.9	23.9	23.9	15.9	15.9
85°	95.5	87.5	79.5	71.6	63.6	63.6	55.7	47.7	39.8	31.8	23.9
82.5°	167.0	159.1	143.2	127.3	111.4	95.5	79.5	71.6	63.6	47.7	39.8
80°	230.7	214.8	206.8	182.9	167.0	143.2	127.3	103.4	79.5	71.6	55.7
77.5°	270.4	254.5	238.6	230.7	214.8	190.9	167.0	143.2	119.3	87.5	71.6
75°	310.2	294.3	278.4	262.5	246.6	222.7	206.8	182.9	151.1	119.3	79.5
72.5°	357.9	334.1	318.2	294.3	270.4	254.5	230.7	214.8	182.9	143.2	103.4
70°	405.7	381.8	350.0	326.1	302.3	278.4	254.5	230.7	206.8	167.0	127.3
67.5°	453.4	421.6	397.7	365.9	334.1	310.2	278.4	254.5	222.7	190.9	143.2
65°	501.1	469.3	437.5	405.7	365.9	334.1	302.3	270.4	246.6	214.8	167.0
62.5°	556.8	517.0	477.3	437.5	405.7	365.9	326.1	294.3	262.5	230.7	182.9
60°	612.5	564.8	517.0	477.3	437.5	397.7	350.0	318.2	278.4	238.6	206.8
57.5°	660.2	612.5	564.8	517.0	469.3	421.6	381.8	334.1	294.3	254.5	214.8
55°	715.9	660.2	612.5	556.8	501.1	453.4	405.7	357.9	310.2	270.4	230.7
52.5°	763.6	707.9	652.3	596.6	540.9	485.2	429.5	373.9	326.1	278.4	238.6
50°	803.4	755.7	692.0	636.3	572.7	509.1	453.4	397.7	342.0	294.3	246.6
47.5°	835.2	787.5	739.8	676.1	604.5	540.9	477.3	421.6	357.9	310.2	254.5
45°	867.0	819.3	771.6	707.9	636.3	572.7	501.1	437.5	373.9	318.2	262.5
42.5°	890.9	851.1	803.4	747.7	668.2	596.6	525.0	453.4	389.8	334.1	270.4
40°	914.7	875.0	827.3	771.6	700.0	628.4	548.8	477.3	405.7	342.0	286.4
37.5°	930.7	898.8	851.1	795.4	731.8	652.3	572.7	493.2	421.6	357.9	294.3
35°	946.6	914.7	867.0	819.3	755.7	676.1	596.6	509.1	437.5	365.9	302.3
32.5°	954.5	930.7	890.9	835.2	779.5	700.0	612.5	532.9	453.4	373.9	310.2
30°	962.5	938.6	906.8	851.1	795.4	723.8	636.3	540.9	461.4	389.8	318.2
27.5°	970.4	946.6	914.7	867.0	811.3	739.8	652.3	556.8	477.3	397.7	318.2
25°	978.4	954.5	930.7	882.9	827.3	755.7	668.2	572.7	485.2	405.7	326.1
22.5°	986.3	962.5	938.6	898.8	843.2	771.6	684.1	588.6	493.2	413.6	334.1
20°	994.3	970.4	946.6	906.8	851.1	779.5	692.0	596.6	509.1	421.6	342.0
17.5°	1002.2	970.4	946.6	914.7	859.1	795.4	707.9	612.5	517.0	421.6	342.0
15°	1002.2	978.4	954.5	922.7	867.0	803.4	715.9	620.4	517.0	429.5	350.0
12.5°	1002.2	986.3	954.5	922.7	875.0	811.3	723.8	628.4	525.0	437.5	350.0
10°	1010.2	986.3	954.5	930.7	882.9	819.3	731.8	636.3	532.9	437.5	350.0
7.5°	1010.2	994.3	962.5	930.7	882.9	819.3	739.8	636.3	532.9	445.4	357.9
5°	1010.2	994.3	962.5	938.6	890.9	827.3	747.7	644.3	540.9	445.4	357.9
2.5°	1010.2	994.3	962.5	938.6	890.9	827.3	747.7	644.3	540.9	445.4	357.9
0°	1010.2	994.3	962.5	938.6	890.9	827.3	747.7	644.3	540.9	445.4	357.9



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.0	8.0	0.0	0.0
85°	23.9	15.9	8.0	0.0
82.5°	31.8	23.9	8.0	0.0
80°	39.8	23.9	15.9	0.0
77.5°	47.7	31.8	15.9	0.0
75°	63.6	39.8	23.9	0.0
72.5°	71.6	47.7	23.9	0.0
70°	79.5	55.7	23.9	0.0
67.5°	95.5	63.6	31.8	0.0
65°	111.4	63.6	31.8	0.0
62.5°	127.3	71.6	39.8	0.0
60°	143.2	79.5	39.8	0.0
57.5°	159.1	87.5	39.8	0.0
55°	167.0	95.5	47.7	0.0
52.5°	182.9	103.4	47.7	0.0
50°	198.9	119.3	47.7	0.0
47.5°	206.8	127.3	55.7	0.0
45°	214.8	135.2	55.7	0.0
42.5°	222.7	143.2	55.7	0.0
40°	230.7	151.1	63.6	0.0
37.5°	230.7	151.1	63.6	0.0
35°	238.6	159.1	63.6	0.0
32.5°	246.6	167.0	63.6	0.0
30°	246.6	175.0	71.6	0.0
27.5°	254.5	175.0	71.6	0.0
25°	254.5	182.9	71.6	0.0
22.5°	262.5	190.9	71.6	0.0
20°	262.5	190.9	71.6	0.0
17.5°	270.4	198.9	79.5	0.0
15°	270.4	198.9	79.5	0.0
12.5°	270.4	198.9	79.5	0.0
10°	278.4	206.8	79.5	0.0
7.5°	278.4	206.8	79.5	0.0
5°	278.4	206.8	79.5	0.0
2.5°	278.4	206.8	79.5	0.0
0°	278.4	206.8	79.5	0.0

(END OF REPORT)