

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: P723251

Luminaire Tested: **IFLD-L-SA7E-727-U-22**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P723251  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-727-U-22  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

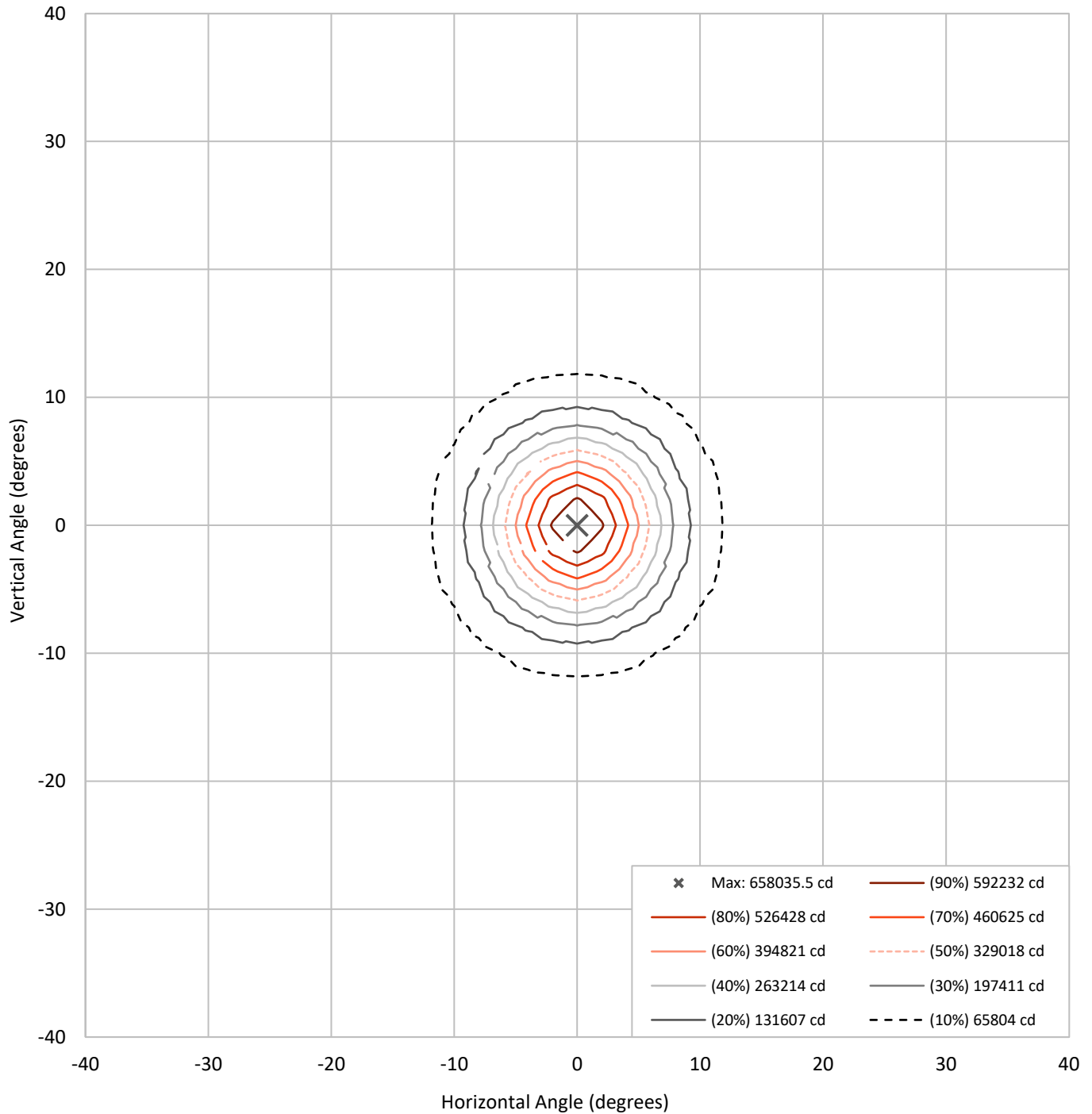
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	44063.7 lumens	Max Intensity:	658035.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	82.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	10673.8 lumens	Field Lumens:	22938.1 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





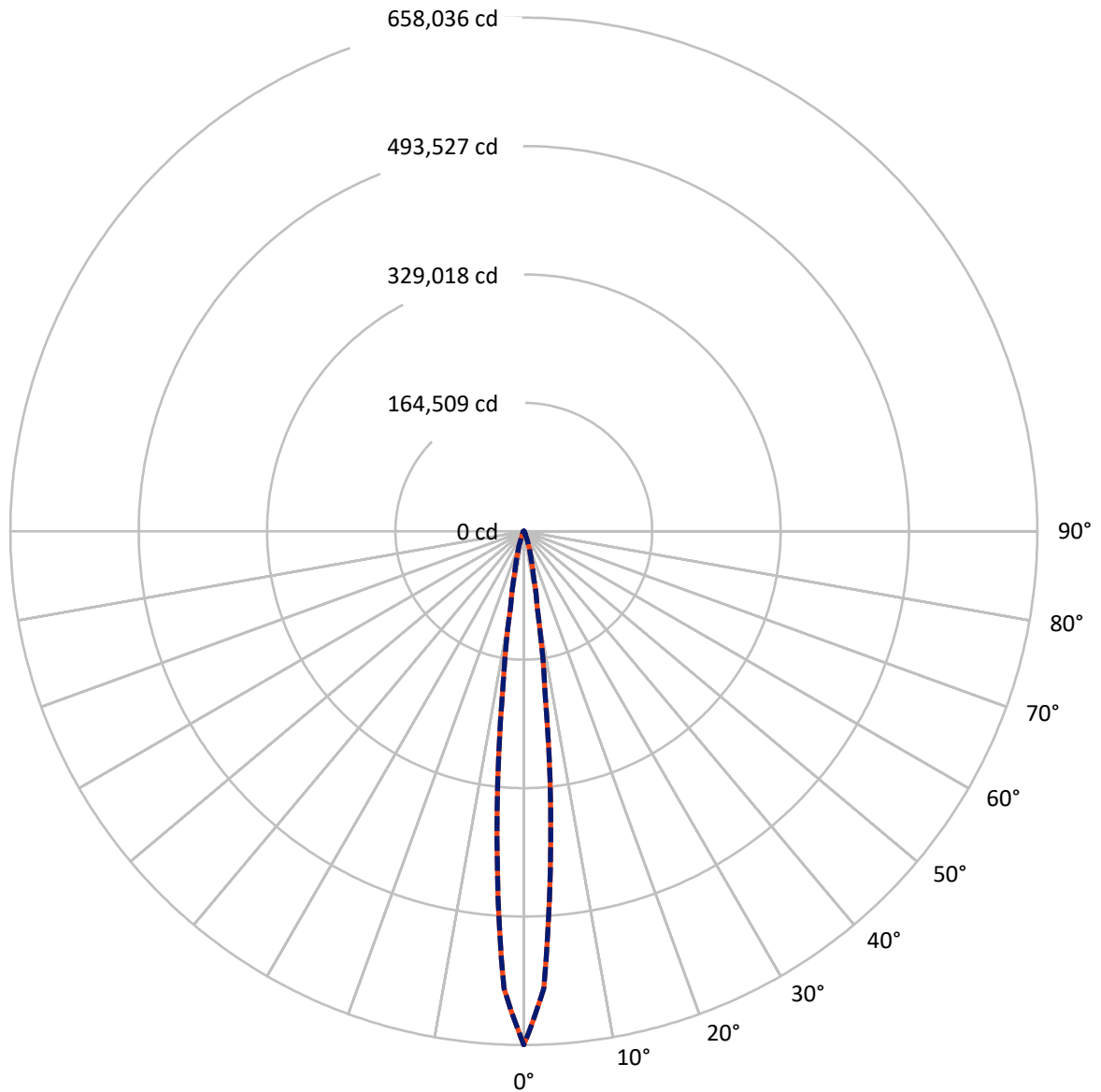
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### Lumen Table

90	1.4		9.3		21.2		31.8		36.1		31.8		21.2		9.3		1.4		
80	1.4		9.3		21.2		31.8		36.1		31.8		21.2		9.3		1.4		
70	4.2	3.9	7.2	11.2	15.2	18.4	20.6	21.7	21.7	20.6	18.4	15.2	11.2	7.2	3.9	4.2			
60		5.4	10.1	15.1	19.1	22.0	24.0	25.1	25.1	24.0	22.0	19.1	15.1	10.1	5.4				
50	6.3	6.8	12.3	16.9	20.7	24.2	27.7	30.1	30.1	27.7	24.2	20.7	16.9	12.3	6.8	6.3			
40		7.9	13.4	17.9	22.9	30.8	39.4	45.3	45.3	39.4	30.8	22.9	17.9	13.4	7.9				
30	7.8	8.6	14.0	18.9	27.9	42.5	80.5	154.1	154.1	80.5	42.5	27.9	18.9	14.0	8.6	7.8			
20		9.1	14.3	20.3	33.5	75.9	372.7	1041.5	1041.5	372.7	75.9	33.5	20.3	14.3	9.1				
10	8.3	9.3	14.5	21.5	37.4	141.8	1015.1	7223.3	7223.3	1015.1	141.8	37.4	21.5	14.5	9.3	8.3			
0		9.3	14.5	21.5	37.4	141.8	1015.1	7223.3	7223.3	1015.1	141.8	37.4	21.5	14.5	9.3				
-10	7.8	9.1	14.3	20.3	33.5	75.9	372.7	1041.5	1041.5	372.7	75.9	33.5	20.3	14.3	9.1	7.8			
-20		8.6	14.0	18.9	27.9	42.5	80.5	154.1	154.1	80.5	42.5	27.9	18.9	14.0	8.6				
-30	6.3	7.9	13.4	17.9	22.9	30.8	39.4	45.3	45.3	39.4	30.8	22.9	17.9	13.4	7.9	6.3			
-40		6.8	12.3	16.9	20.7	24.2	27.7	30.1	30.1	27.7	24.2	20.7	16.9	12.3	6.8				
-50	4.2	5.4	10.1	15.1	19.1	22.0	24.0	25.1	25.1	24.0	22.0	19.1	15.1	10.1	5.4	4.2			
-60		3.9	7.2	11.2	15.2	18.4	20.6	21.7	21.7	20.6	18.4	15.2	11.2	7.2	3.9				
-70	1.4	9.3		21.2		31.8		36.1		31.8		21.2		9.3		1.4			
-80		9.3		21.2		31.8		36.1		31.8		21.2		9.3					
-90	1.4		9.3		21.2		31.8		36.1		31.8		21.2		9.3		1.4		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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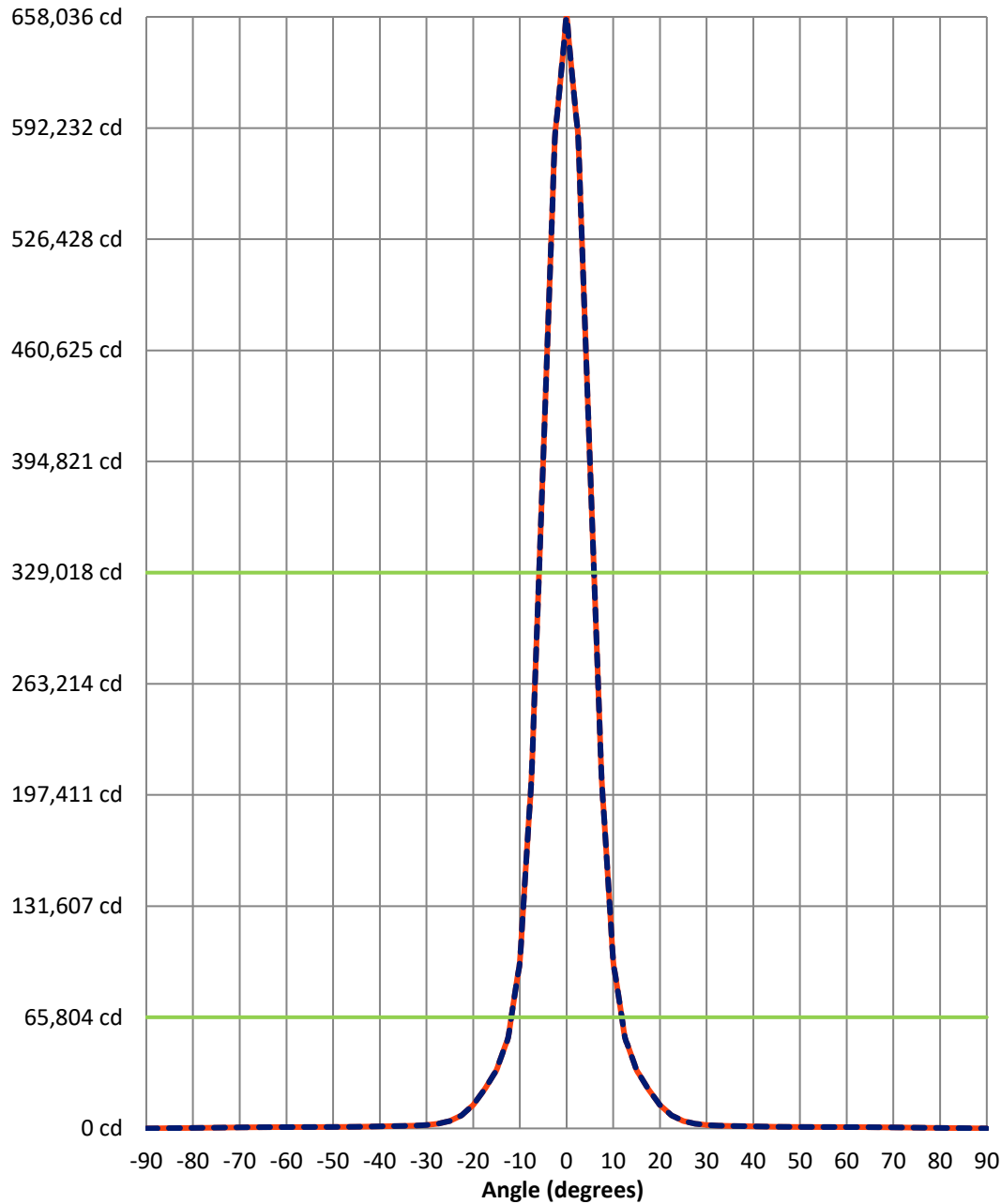
### Luminous Intensity Polar Plot



— 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: 10673.8  
 Efficiency: 24.2%

**Field:**  
 H Angle: 23.7°  
 V Angle: 23.7°  
 Lumens: 22938.1  
 Efficiency: 52.1%

**Spill:**  
 Lumens: 21125.6  
 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°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	58.5	58.5	58.5
85°	169.1	169.1	169.1	169.1	169.1	162.6	162.6	162.6	156.1	156.1	149.6
82.5°	227.6	227.6	227.6	227.6	227.6	221.1	221.1	221.1	214.6	214.6	208.1
80°	292.6	292.6	292.6	292.6	286.1	286.1	286.1	279.6	279.6	273.1	266.6
77.5°	364.2	364.2	364.2	364.2	357.7	357.7	351.2	344.7	344.7	338.2	331.7
75°	442.2	442.2	442.2	435.7	435.7	429.2	422.7	422.7	416.2	403.2	396.7
72.5°	526.8	526.8	526.8	520.3	520.3	513.8	507.3	500.8	487.7	481.2	468.2
70°	611.3	611.3	611.3	604.8	598.3	591.8	585.3	578.8	565.8	559.3	546.3
67.5°	676.3	676.3	676.3	669.8	669.8	663.3	656.8	650.3	637.3	630.8	617.8
65°	728.4	728.4	728.4	721.9	721.9	715.4	708.9	702.4	695.9	689.3	676.3
62.5°	767.4	767.4	767.4	760.9	760.9	754.4	754.4	747.9	741.4	734.9	721.9
60°	786.9	786.9	786.9	786.9	780.4	780.4	780.4	773.9	773.9	767.4	760.9
57.5°	812.9	812.9	812.9	812.9	806.4	806.4	799.9	793.4	793.4	786.9	780.4
55°	825.9	825.9	825.9	825.9	825.9	819.4	819.4	819.4	812.9	806.4	799.9
52.5°	845.4	845.4	845.4	845.4	838.9	838.9	832.4	832.4	825.9	819.4	819.4
50°	871.4	871.4	871.4	864.9	864.9	858.4	851.9	845.4	845.4	838.9	832.4
47.5°	910.5	910.5	910.5	904.0	897.5	891.0	884.4	871.4	864.9	858.4	845.4
45°	969.0	969.0	962.5	956.0	949.5	936.5	923.5	910.5	897.5	884.4	871.4
42.5°	1086.0	1086.0	1073.0	1060.0	1040.5	1014.5	988.5	962.5	943.0	923.5	904.0
40°	1222.6	1222.6	1209.6	1190.1	1164.1	1138.1	1099.1	1060.0	1021.0	969.0	943.0
37.5°	1359.2	1359.2	1346.2	1326.7	1300.7	1261.6	1222.6	1177.1	1125.1	1066.5	1014.5
35°	1463.2	1463.2	1450.2	1437.2	1411.2	1385.2	1346.2	1300.7	1242.1	1177.1	1112.1
32.5°	1645.3	1645.3	1619.3	1586.8	1547.8	1495.8	1443.7	1404.7	1359.2	1287.7	1216.1
30°	2016.0	2016.0	1957.5	1892.5	1794.9	1677.8	1593.3	1515.3	1443.7	1385.2	1313.7
27.5°	2796.4	2763.9	2666.3	2503.8	2289.2	2016.0	1859.9	1684.4	1567.3	1463.2	1398.2
25°	4409.2	4331.2	4110.1	3745.9	3245.1	2711.9	2360.7	1990.0	1775.4	1599.8	1482.8
22.5°	7712.9	7537.3	7023.6	6184.6	5046.6	4032.0	3232.1	2568.8	2094.1	1807.9	1599.8
20°	13865.0	13500.8	12408.3	10652.4	8285.2	6457.8	4656.4	3544.3	2640.3	2094.1	1775.4
17.5°	23320.8	22670.5	20752.0	17675.9	13865.0	10437.8	7192.6	5001.0	3544.3	2568.8	1990.0
15°	34558.5	33648.0	30994.7	26774.0	21564.9	16011.1	11179.2	7192.6	4656.4	3232.1	2360.7
12.5°	53860.3	51980.8	46537.6	38057.3	30253.3	22917.6	16011.1	10437.8	6457.8	4032.0	2711.9
10°	98824.0	93341.7	77798.9	54270.0	41458.5	30253.3	21564.9	13865.0	8285.2	5046.6	3245.1
7.5°	207942.7	183574.9	132517.6	88184.6	54270.0	38057.3	26774.0	17675.9	10652.4	6184.6	3745.9
5°	395419.6	345643.4	238144.0	132517.6	77798.9	46537.6	30994.7	20752.0	12408.3	7023.6	4110.1
2.5°	586187.2	517375.8	345643.4	183574.9	93341.7	51980.8	33648.0	22670.5	13500.8	7537.3	4331.2
0°	658035.5	586187.2	395419.6	207942.7	98824.0	53860.3	34558.5	23320.8	13865.0	7712.9	4409.2



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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°	58.5	58.5	52.0	52.0	52.0	52.0	45.5	45.5	45.5	39.0	39.0
85°	143.1	143.1	136.6	130.1	123.6	123.6	117.1	110.6	104.1	97.5	84.5
82.5°	208.1	201.6	201.6	195.1	188.6	188.6	182.1	175.6	169.1	162.6	149.6
80°	260.1	260.1	253.6	247.1	240.6	234.1	221.1	214.6	208.1	201.6	195.1
77.5°	325.2	318.7	305.7	299.2	292.6	279.6	273.1	260.1	253.6	240.6	227.6
75°	390.2	377.2	370.7	357.7	344.7	331.7	318.7	305.7	292.6	279.6	266.6
72.5°	455.2	442.2	435.7	416.2	403.2	390.2	370.7	357.7	344.7	325.2	305.7
70°	533.3	520.3	500.8	487.7	468.2	448.7	429.2	409.7	390.2	370.7	351.2
67.5°	604.8	591.8	572.3	552.8	533.3	513.8	487.7	468.2	442.2	416.2	396.7
65°	663.3	650.3	637.3	617.8	598.3	572.3	546.3	520.3	494.3	468.2	442.2
62.5°	708.9	695.9	682.8	669.8	650.3	630.8	611.3	578.8	552.8	520.3	487.7
60°	747.9	741.4	728.4	708.9	695.9	676.3	656.8	630.8	604.8	565.8	533.3
57.5°	773.9	767.4	760.9	747.9	734.9	715.4	695.9	669.8	643.8	617.8	578.8
55°	793.4	786.9	780.4	773.9	760.9	747.9	728.4	708.9	682.8	656.8	624.3
52.5°	812.9	806.4	793.4	786.9	780.4	767.4	754.4	734.9	715.4	689.3	656.8
50°	825.9	819.4	812.9	806.4	793.4	780.4	773.9	760.9	741.4	715.4	689.3
47.5°	838.9	832.4	825.9	819.4	812.9	799.9	786.9	773.9	760.9	741.4	715.4
45°	858.4	845.4	838.9	825.9	819.4	812.9	799.9	786.9	773.9	760.9	734.9
42.5°	884.4	864.9	858.4	845.4	832.4	825.9	812.9	799.9	786.9	773.9	754.4
40°	917.0	897.5	877.9	858.4	845.4	832.4	825.9	812.9	799.9	780.4	767.4
37.5°	962.5	930.0	904.0	877.9	858.4	845.4	832.4	819.4	812.9	793.4	780.4
35°	1047.0	975.5	936.5	904.0	877.9	858.4	845.4	825.9	819.4	806.4	786.9
32.5°	1138.1	1060.0	982.0	936.5	904.0	877.9	858.4	838.9	825.9	812.9	793.4
30°	1235.6	1144.6	1060.0	975.5	930.0	897.5	864.9	845.4	832.4	819.4	806.4
27.5°	1326.7	1235.6	1138.1	1047.0	962.5	917.0	884.4	858.4	838.9	825.9	812.9
25°	1398.2	1313.7	1216.1	1112.1	1014.5	943.0	904.0	871.4	845.4	832.4	819.4
22.5°	1463.2	1385.2	1287.7	1177.1	1066.5	969.0	923.5	884.4	858.4	838.9	819.4
20°	1567.3	1443.7	1359.2	1242.1	1125.1	1021.0	943.0	897.5	864.9	845.4	825.9
17.5°	1684.4	1515.3	1404.7	1300.7	1177.1	1060.0	962.5	910.5	871.4	845.4	832.4
15°	1859.9	1593.3	1443.7	1346.2	1222.6	1099.1	988.5	923.5	884.4	851.9	832.4
12.5°	2016.0	1677.8	1495.8	1385.2	1261.6	1138.1	1014.5	936.5	891.0	858.4	838.9
10°	2289.2	1794.9	1547.8	1411.2	1300.7	1164.1	1040.5	949.5	897.5	864.9	838.9
7.5°	2503.8	1892.5	1586.8	1437.2	1326.7	1190.1	1060.0	956.0	904.0	864.9	845.4
5°	2666.3	1957.5	1619.3	1450.2	1346.2	1209.6	1073.0	962.5	910.5	871.4	845.4
2.5°	2763.9	2016.0	1645.3	1463.2	1359.2	1222.6	1086.0	969.0	910.5	871.4	845.4
0°	2796.4	2016.0	1645.3	1463.2	1359.2	1222.6	1086.0	969.0	910.5	871.4	845.4





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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°	39.0	32.5	32.5	32.5	26.0	26.0	19.5	19.5	19.5	13.0	13.0
85°	78.0	71.5	65.0	58.5	52.0	52.0	45.5	39.0	32.5	26.0	19.5
82.5°	136.6	130.1	117.1	104.1	91.0	78.0	65.0	58.5	52.0	39.0	32.5
80°	188.6	175.6	169.1	149.6	136.6	117.1	104.1	84.5	65.0	58.5	45.5
77.5°	221.1	208.1	195.1	188.6	175.6	156.1	136.6	117.1	97.5	71.5	58.5
75°	253.6	240.6	227.6	214.6	201.6	182.1	169.1	149.6	123.6	97.5	65.0
72.5°	292.6	273.1	260.1	240.6	221.1	208.1	188.6	175.6	149.6	117.1	84.5
70°	331.7	312.2	286.1	266.6	247.1	227.6	208.1	188.6	169.1	136.6	104.1
67.5°	370.7	344.7	325.2	299.2	273.1	253.6	227.6	208.1	182.1	156.1	117.1
65°	409.7	383.7	357.7	331.7	299.2	273.1	247.1	221.1	201.6	175.6	136.6
62.5°	455.2	422.7	390.2	357.7	331.7	299.2	266.6	240.6	214.6	188.6	149.6
60°	500.8	461.7	422.7	390.2	357.7	325.2	286.1	260.1	227.6	195.1	169.1
57.5°	539.8	500.8	461.7	422.7	383.7	344.7	312.2	273.1	240.6	208.1	175.6
55°	585.3	539.8	500.8	455.2	409.7	370.7	331.7	292.6	253.6	221.1	188.6
52.5°	624.3	578.8	533.3	487.7	442.2	396.7	351.2	305.7	266.6	227.6	195.1
50°	656.8	617.8	565.8	520.3	468.2	416.2	370.7	325.2	279.6	240.6	201.6
47.5°	682.8	643.8	604.8	552.8	494.3	442.2	390.2	344.7	292.6	253.6	208.1
45°	708.9	669.8	630.8	578.8	520.3	468.2	409.7	357.7	305.7	260.1	214.6
42.5°	728.4	695.9	656.8	611.3	546.3	487.7	429.2	370.7	318.7	273.1	221.1
40°	747.9	715.4	676.3	630.8	572.3	513.8	448.7	390.2	331.7	279.6	234.1
37.5°	760.9	734.9	695.9	650.3	598.3	533.3	468.2	403.2	344.7	292.6	240.6
35°	773.9	747.9	708.9	669.8	617.8	552.8	487.7	416.2	357.7	299.2	247.1
32.5°	780.4	760.9	728.4	682.8	637.3	572.3	500.8	435.7	370.7	305.7	253.6
30°	786.9	767.4	741.4	695.9	650.3	591.8	520.3	442.2	377.2	318.7	260.1
27.5°	793.4	773.9	747.9	708.9	663.3	604.8	533.3	455.2	390.2	325.2	260.1
25°	799.9	780.4	760.9	721.9	676.3	617.8	546.3	468.2	396.7	331.7	266.6
22.5°	806.4	786.9	767.4	734.9	689.3	630.8	559.3	481.2	403.2	338.2	273.1
20°	812.9	793.4	773.9	741.4	695.9	637.3	565.8	487.7	416.2	344.7	279.6
17.5°	819.4	793.4	773.9	747.9	702.4	650.3	578.8	500.8	422.7	344.7	279.6
15°	819.4	799.9	780.4	754.4	708.9	656.8	585.3	507.3	422.7	351.2	286.1
12.5°	819.4	806.4	780.4	754.4	715.4	663.3	591.8	513.8	429.2	357.7	286.1
10°	825.9	806.4	780.4	760.9	721.9	669.8	598.3	520.3	435.7	357.7	286.1
7.5°	825.9	812.9	786.9	760.9	721.9	669.8	604.8	520.3	435.7	364.2	292.6
5°	825.9	812.9	786.9	767.4	728.4	676.3	611.3	526.8	442.2	364.2	292.6
2.5°	825.9	812.9	786.9	767.4	728.4	676.3	611.3	526.8	442.2	364.2	292.6
0°	825.9	812.9	786.9	767.4	728.4	676.3	611.3	526.8	442.2	364.2	292.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.5	6.5	0.0	0.0
85°	19.5	13.0	6.5	0.0
82.5°	26.0	19.5	6.5	0.0
80°	32.5	19.5	13.0	0.0
77.5°	39.0	26.0	13.0	0.0
75°	52.0	32.5	19.5	0.0
72.5°	58.5	39.0	19.5	0.0
70°	65.0	45.5	19.5	0.0
67.5°	78.0	52.0	26.0	0.0
65°	91.0	52.0	26.0	0.0
62.5°	104.1	58.5	32.5	0.0
60°	117.1	65.0	32.5	0.0
57.5°	130.1	71.5	32.5	0.0
55°	136.6	78.0	39.0	0.0
52.5°	149.6	84.5	39.0	0.0
50°	162.6	97.5	39.0	0.0
47.5°	169.1	104.1	45.5	0.0
45°	175.6	110.6	45.5	0.0
42.5°	182.1	117.1	45.5	0.0
40°	188.6	123.6	52.0	0.0
37.5°	188.6	123.6	52.0	0.0
35°	195.1	130.1	52.0	0.0
32.5°	201.6	136.6	52.0	0.0
30°	201.6	143.1	58.5	0.0
27.5°	208.1	143.1	58.5	0.0
25°	208.1	149.6	58.5	0.0
22.5°	214.6	156.1	58.5	0.0
20°	214.6	156.1	58.5	0.0
17.5°	221.1	162.6	65.0	0.0
15°	221.1	162.6	65.0	0.0
12.5°	221.1	162.6	65.0	0.0
10°	227.6	169.1	65.0	0.0
7.5°	227.6	169.1	65.0	0.0
5°	227.6	169.1	65.0	0.0
2.5°	227.6	169.1	65.0	0.0
0°	227.6	169.1	65.0	0.0

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