

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: P723279

Luminaire Tested: **IFLD-L-SA7D-730-U-22**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P723279  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-22  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

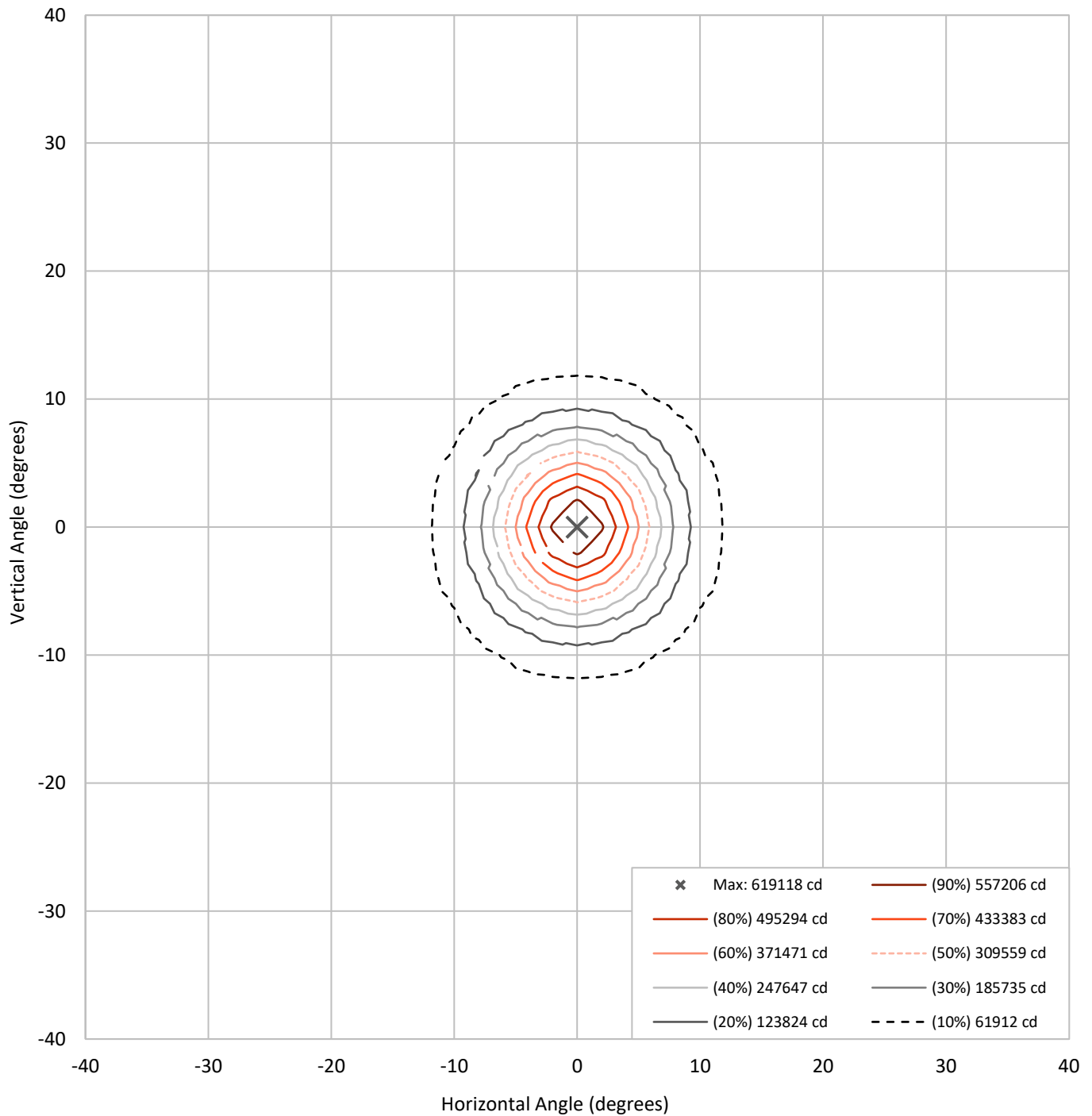
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	41457.7 lumens	Max Intensity:	619118 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	98.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	10042.5 lumens	Field Lumens:	21581.5 lumens
Beam Efficiency:	24.2%	Field Efficiency:	52.1%

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: 28.75 FT



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### Iso-Candela Plot





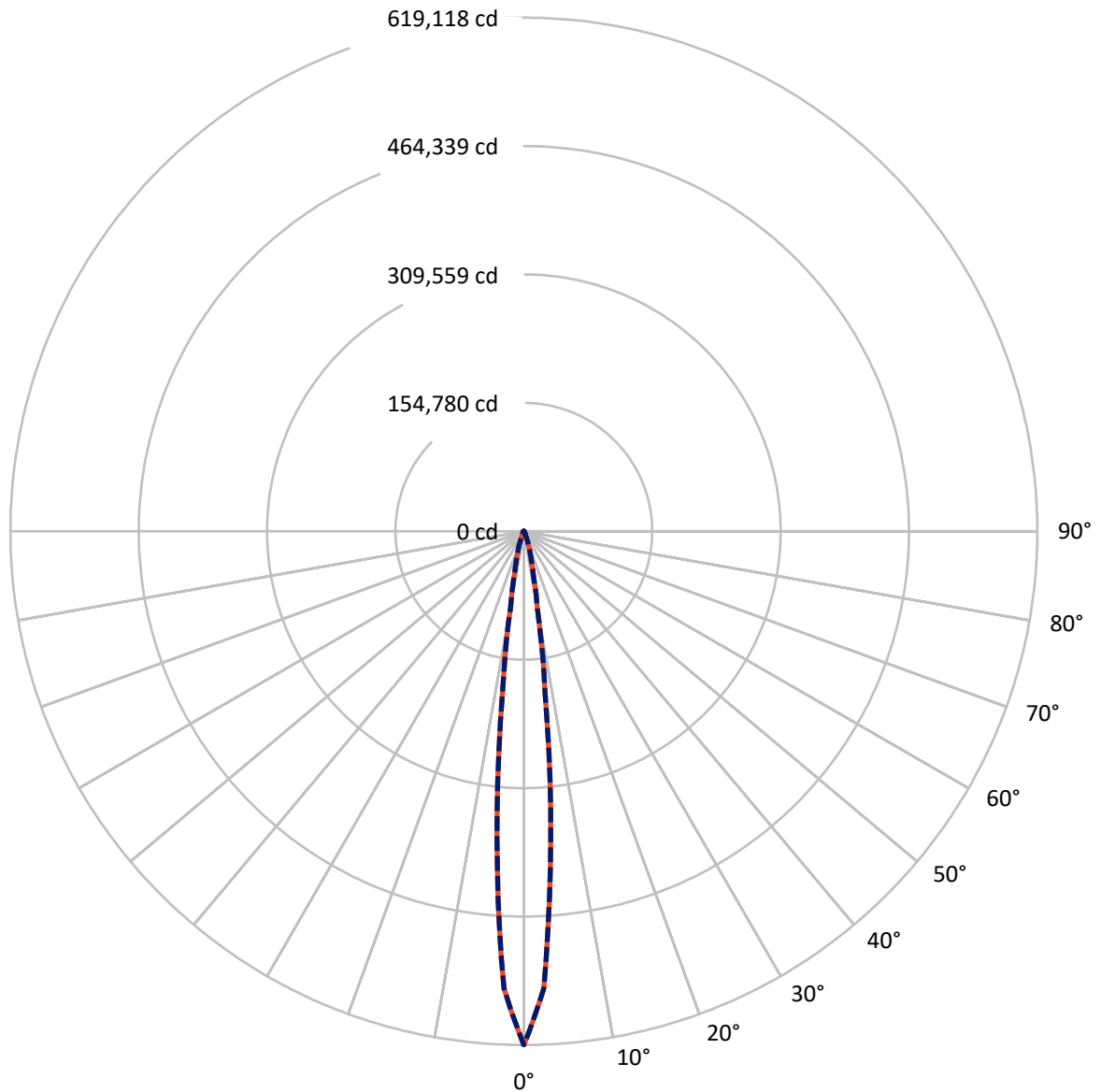
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### Lumen Table

90	1.3	8.8		19.9		29.9		34.0		29.9		19.9		8.8		1.3			
80	1.3	8.8		19.9		29.9		34.0		29.9		19.9		8.8		1.3			
70	3.9	3.7	6.8	10.6	14.3	17.3	19.3	20.4	20.4	19.3	17.3	14.3	10.6	6.8	3.7	3.9			
60		5.1	9.5	14.2	18.0	20.7	22.6	23.6	23.6	22.6	20.7	18.0	14.2	9.5	5.1				
50	5.9	6.4	11.5	15.9	19.5	22.8	26.1	28.3	28.3	26.1	22.8	19.5	15.9	11.5	6.4	5.9			
40		7.4	12.6	16.8	21.5	29.0	37.0	42.6	42.6	37.0	29.0	21.5	16.8	12.6	7.4				
30	7.3	8.1	13.1	17.8	26.3	39.9	75.8	145.0	145.0	75.8	39.9	26.3	17.8	13.1	8.1	7.3			
20		8.5	13.4	19.1	31.5	71.4	350.7	979.9	979.9	350.7	71.4	31.5	19.1	13.4	8.5				
10	7.8	8.7	13.6	20.2	35.2	133.4	955.0	6796.1	6796.1	955.0	133.4	35.2	20.2	13.6	8.7	7.8			
0		8.7	13.6	20.2	35.2	133.4	955.0	6796.1	6796.1	955.0	133.4	35.2	20.2	13.6	8.7				
-10	7.3	8.5	13.4	19.1	31.5	71.4	350.7	979.9	979.9	350.7	71.4	31.5	19.1	13.4	8.5	7.3			
-20		8.1	13.1	17.8	26.3	39.9	75.8	145.0	145.0	75.8	39.9	26.3	17.8	13.1	8.1				
-30	5.9	7.4	12.6	16.8	21.5	29.0	37.0	42.6	42.6	37.0	29.0	21.5	16.8	12.6	7.4	5.9			
-40		6.4	11.5	15.9	19.5	22.8	26.1	28.3	28.3	26.1	22.8	19.5	15.9	11.5	6.4				
-50	3.9	5.1	9.5	14.2	18.0	20.7	22.6	23.6	23.6	22.6	20.7	18.0	14.2	9.5	5.1	3.9			
-60		3.7	6.8	10.6	14.3	17.3	19.3	20.4	20.4	19.3	17.3	14.3	10.6	6.8	3.7				
-70	1.3	8.8		19.9		29.9		34.0		29.9		19.9		8.8		1.3			
-80		8.8		19.9		29.9		34.0		29.9		19.9		8.8					
-90	1.3	8.8		19.9		29.9		34.0		29.9		19.9		8.8		1.3			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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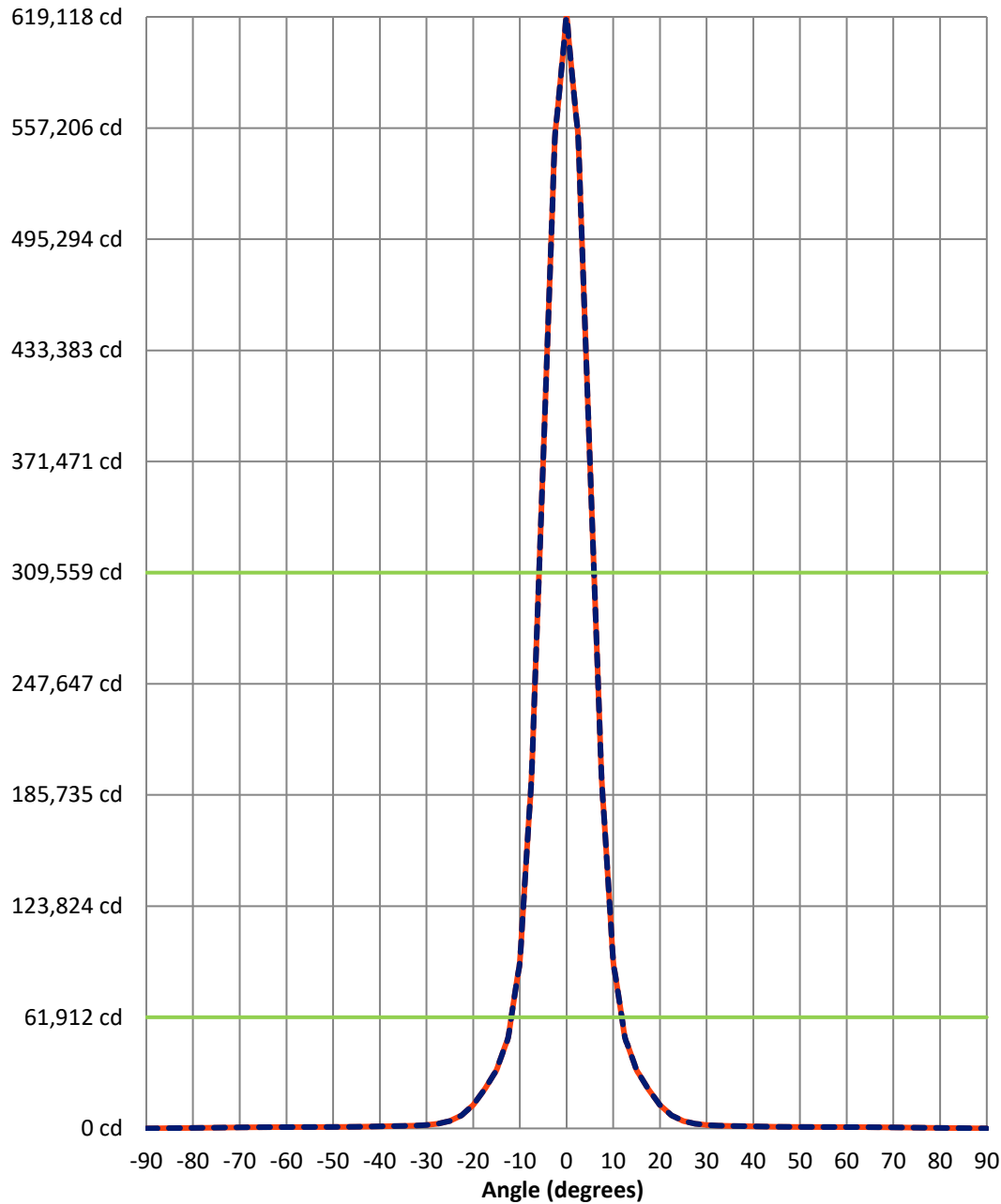
### Luminous Intensity Polar Plot



— 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: 10042.5  
Efficiency: 24.2%

**Field:**  
H Angle: 23.7°  
V Angle: 23.7°  
Lumens: 21581.5  
Efficiency: 52.1%

**Spill:**  
Lumens: 19876.2  
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°	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	55.1	55.1	55.1
85°	159.1	159.1	159.1	159.1	159.1	153.0	153.0	153.0	146.8	146.8	140.7
82.5°	214.2	214.2	214.2	214.2	214.2	208.0	208.0	208.0	201.9	201.9	195.8
80°	275.3	275.3	275.3	275.3	269.2	269.2	269.2	263.1	263.1	257.0	250.9
77.5°	342.6	342.6	342.6	342.6	336.5	336.5	330.4	324.3	324.3	318.2	312.1
75°	416.1	416.1	416.1	410.0	410.0	403.8	397.7	397.7	391.6	379.4	373.2
72.5°	495.6	495.6	495.6	489.5	489.5	483.4	477.3	471.1	458.9	452.8	440.5
70°	575.2	575.2	575.2	569.0	562.9	556.8	550.7	544.6	532.3	526.2	514.0
67.5°	636.3	636.3	636.3	630.2	630.2	624.1	618.0	611.9	599.6	593.5	581.3
65°	685.3	685.3	685.3	679.2	679.2	673.1	666.9	660.8	654.7	648.6	636.3
62.5°	722.0	722.0	722.0	715.9	715.9	709.8	709.8	703.6	697.5	691.4	679.2
60°	740.4	740.4	740.4	740.4	734.2	734.2	734.2	728.1	728.1	722.0	715.9
57.5°	764.8	764.8	764.8	764.8	758.7	758.7	752.6	746.5	746.5	740.4	734.2
55°	777.1	777.1	777.1	777.1	777.1	771.0	771.0	771.0	764.8	758.7	752.6
52.5°	795.4	795.4	795.4	795.4	789.3	789.3	783.2	783.2	777.1	771.0	771.0
50°	819.9	819.9	819.9	813.8	813.8	807.7	801.5	795.4	795.4	789.3	783.2
47.5°	856.6	856.6	856.6	850.5	844.4	838.3	832.1	819.9	813.8	807.7	795.4
45°	911.7	911.7	905.6	899.4	893.3	881.1	868.9	856.6	844.4	832.1	819.9
42.5°	1021.8	1021.8	1009.6	997.3	979.0	954.5	930.0	905.6	887.2	868.9	850.5
40°	1150.3	1150.3	1138.1	1119.7	1095.2	1070.8	1034.1	997.3	960.6	911.7	887.2
37.5°	1278.8	1278.8	1266.6	1248.2	1223.7	1187.0	1150.3	1107.5	1058.5	1003.5	954.5
35°	1376.7	1376.7	1364.5	1352.2	1327.8	1303.3	1266.6	1223.7	1168.7	1107.5	1046.3
32.5°	1548.0	1548.0	1523.5	1493.0	1456.2	1407.3	1358.3	1321.6	1278.8	1211.5	1144.2
30°	1896.8	1896.8	1841.7	1780.5	1688.8	1578.6	1499.1	1425.7	1358.3	1303.3	1236.0
27.5°	2631.0	2600.4	2508.7	2355.7	2153.8	1896.8	1749.9	1584.7	1474.6	1376.7	1315.5
25°	4148.5	4075.0	3867.0	3524.4	3053.2	2551.5	2221.1	1872.3	1670.4	1505.2	1395.1
22.5°	7256.7	7091.5	6608.2	5818.9	4748.1	3793.6	3041.0	2416.9	1970.2	1701.0	1505.2
20°	13045.0	12702.4	11674.4	10022.4	7795.2	6075.8	4381.0	3334.7	2484.2	1970.2	1670.4
17.5°	21941.6	21329.7	19524.7	16630.6	13045.0	9820.5	6767.3	4705.3	3334.7	2416.9	1872.3
15°	32514.6	31658.0	29161.6	25190.6	20289.5	15064.2	10518.0	6767.3	4381.0	3041.0	2221.1
12.5°	50674.9	48906.6	43785.2	35806.5	28464.1	21562.2	15064.2	9820.5	6075.8	3793.6	2551.5
10°	92979.4	87821.3	73197.7	51060.3	39006.5	28464.1	20289.5	13045.0	7795.2	4748.1	3053.2
7.5°	195644.6	172717.9	124680.2	82969.2	51060.3	35806.5	25190.6	16630.6	10022.4	5818.9	3524.4
5°	372033.7	325201.4	224059.7	124680.2	73197.7	43785.2	29161.6	19524.7	11674.4	6608.2	3867.0
2.5°	551518.9	486777.2	325201.4	172717.9	87821.3	48906.6	31658.0	21329.7	12702.4	7091.5	4075.0
0°	619118.0	551518.9	372033.7	195644.6	92979.4	50674.9	32514.6	21941.6	13045.0	7256.7	4148.5



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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°	55.1	55.1	48.9	48.9	48.9	48.9	42.8	42.8	42.8	36.7	36.7
85°	134.6	134.6	128.5	122.4	116.3	116.3	110.1	104.0	97.9	91.8	79.5
82.5°	195.8	189.7	189.7	183.6	177.4	177.4	171.3	165.2	159.1	153.0	140.7
80°	244.7	244.7	238.6	232.5	226.4	220.3	208.0	201.9	195.8	189.7	183.6
77.5°	305.9	299.8	287.6	281.5	275.3	263.1	257.0	244.7	238.6	226.4	214.2
75°	367.1	354.9	348.8	336.5	324.3	312.1	299.8	287.6	275.3	263.1	250.9
72.5°	428.3	416.1	410.0	391.6	379.4	367.1	348.8	336.5	324.3	305.9	287.6
70°	501.7	489.5	471.1	458.9	440.5	422.2	403.8	385.5	367.1	348.8	330.4
67.5°	569.0	556.8	538.4	520.1	501.7	483.4	458.9	440.5	416.1	391.6	373.2
65°	624.1	611.9	599.6	581.3	562.9	538.4	514.0	489.5	465.0	440.5	416.1
62.5°	666.9	654.7	642.5	630.2	611.9	593.5	575.2	544.6	520.1	489.5	458.9
60°	703.6	697.5	685.3	666.9	654.7	636.3	618.0	593.5	569.0	532.3	501.7
57.5°	728.1	722.0	715.9	703.6	691.4	673.1	654.7	630.2	605.7	581.3	544.6
55°	746.5	740.4	734.2	728.1	715.9	703.6	685.3	666.9	642.5	618.0	587.4
52.5°	764.8	758.7	746.5	740.4	734.2	722.0	709.8	691.4	673.1	648.6	618.0
50°	777.1	771.0	764.8	758.7	746.5	734.2	728.1	715.9	697.5	673.1	648.6
47.5°	789.3	783.2	777.1	771.0	764.8	752.6	740.4	728.1	715.9	697.5	673.1
45°	807.7	795.4	789.3	777.1	771.0	764.8	752.6	740.4	728.1	715.9	691.4
42.5°	832.1	813.8	807.7	795.4	783.2	777.1	764.8	752.6	740.4	728.1	709.8
40°	862.7	844.4	826.0	807.7	795.4	783.2	777.1	764.8	752.6	734.2	722.0
37.5°	905.6	875.0	850.5	826.0	807.7	795.4	783.2	771.0	764.8	746.5	734.2
35°	985.1	917.8	881.1	850.5	826.0	807.7	795.4	777.1	771.0	758.7	740.4
32.5°	1070.8	997.3	923.9	881.1	850.5	826.0	807.7	789.3	777.1	764.8	746.5
30°	1162.5	1076.9	997.3	917.8	875.0	844.4	813.8	795.4	783.2	771.0	758.7
27.5°	1248.2	1162.5	1070.8	985.1	905.6	862.7	832.1	807.7	789.3	777.1	764.8
25°	1315.5	1236.0	1144.2	1046.3	954.5	887.2	850.5	819.9	795.4	783.2	771.0
22.5°	1376.7	1303.3	1211.5	1107.5	1003.5	911.7	868.9	832.1	807.7	789.3	771.0
20°	1474.6	1358.3	1278.8	1168.7	1058.5	960.6	887.2	844.4	813.8	795.4	777.1
17.5°	1584.7	1425.7	1321.6	1223.7	1107.5	997.3	905.6	856.6	819.9	795.4	783.2
15°	1749.9	1499.1	1358.3	1266.6	1150.3	1034.1	930.0	868.9	832.1	801.5	783.2
12.5°	1896.8	1578.6	1407.3	1303.3	1187.0	1070.8	954.5	881.1	838.3	807.7	789.3
10°	2153.8	1688.8	1456.2	1327.8	1223.7	1095.2	979.0	893.3	844.4	813.8	789.3
7.5°	2355.7	1780.5	1493.0	1352.2	1248.2	1119.7	997.3	899.4	850.5	813.8	795.4
5°	2508.7	1841.7	1523.5	1364.5	1266.6	1138.1	1009.6	905.6	856.6	819.9	795.4
2.5°	2600.4	1896.8	1548.0	1376.7	1278.8	1150.3	1021.8	911.7	856.6	819.9	795.4
0°	2631.0	1896.8	1548.0	1376.7	1278.8	1150.3	1021.8	911.7	856.6	819.9	795.4





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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°	36.7	30.6	30.6	30.6	24.5	24.5	18.4	18.4	18.4	12.2	12.2
85°	73.4	67.3	61.2	55.1	48.9	48.9	42.8	36.7	30.6	24.5	18.4
82.5°	128.5	122.4	110.1	97.9	85.7	73.4	61.2	55.1	48.9	36.7	30.6
80°	177.4	165.2	159.1	140.7	128.5	110.1	97.9	79.5	61.2	55.1	42.8
77.5°	208.0	195.8	183.6	177.4	165.2	146.8	128.5	110.1	91.8	67.3	55.1
75°	238.6	226.4	214.2	201.9	189.7	171.3	159.1	140.7	116.3	91.8	61.2
72.5°	275.3	257.0	244.7	226.4	208.0	195.8	177.4	165.2	140.7	110.1	79.5
70°	312.1	293.7	269.2	250.9	232.5	214.2	195.8	177.4	159.1	128.5	97.9
67.5°	348.8	324.3	305.9	281.5	257.0	238.6	214.2	195.8	171.3	146.8	110.1
65°	385.5	361.0	336.5	312.1	281.5	257.0	232.5	208.0	189.7	165.2	128.5
62.5°	428.3	397.7	367.1	336.5	312.1	281.5	250.9	226.4	201.9	177.4	140.7
60°	471.1	434.4	397.7	367.1	336.5	305.9	269.2	244.7	214.2	183.6	159.1
57.5°	507.8	471.1	434.4	397.7	361.0	324.3	293.7	257.0	226.4	195.8	165.2
55°	550.7	507.8	471.1	428.3	385.5	348.8	312.1	275.3	238.6	208.0	177.4
52.5°	587.4	544.6	501.7	458.9	416.1	373.2	330.4	287.6	250.9	214.2	183.6
50°	618.0	581.3	532.3	489.5	440.5	391.6	348.8	305.9	263.1	226.4	189.7
47.5°	642.5	605.7	569.0	520.1	465.0	416.1	367.1	324.3	275.3	238.6	195.8
45°	666.9	630.2	593.5	544.6	489.5	440.5	385.5	336.5	287.6	244.7	201.9
42.5°	685.3	654.7	618.0	575.2	514.0	458.9	403.8	348.8	299.8	257.0	208.0
40°	703.6	673.1	636.3	593.5	538.4	483.4	422.2	367.1	312.1	263.1	220.3
37.5°	715.9	691.4	654.7	611.9	562.9	501.7	440.5	379.4	324.3	275.3	226.4
35°	728.1	703.6	666.9	630.2	581.3	520.1	458.9	391.6	336.5	281.5	232.5
32.5°	734.2	715.9	685.3	642.5	599.6	538.4	471.1	410.0	348.8	287.6	238.6
30°	740.4	722.0	697.5	654.7	611.9	556.8	489.5	416.1	354.9	299.8	244.7
27.5°	746.5	728.1	703.6	666.9	624.1	569.0	501.7	428.3	367.1	305.9	244.7
25°	752.6	734.2	715.9	679.2	636.3	581.3	514.0	440.5	373.2	312.1	250.9
22.5°	758.7	740.4	722.0	691.4	648.6	593.5	526.2	452.8	379.4	318.2	257.0
20°	764.8	746.5	728.1	697.5	654.7	599.6	532.3	458.9	391.6	324.3	263.1
17.5°	771.0	746.5	728.1	703.6	660.8	611.9	544.6	471.1	397.7	324.3	263.1
15°	771.0	752.6	734.2	709.8	666.9	618.0	550.7	477.3	397.7	330.4	269.2
12.5°	771.0	758.7	734.2	709.8	673.1	624.1	556.8	483.4	403.8	336.5	269.2
10°	777.1	758.7	734.2	715.9	679.2	630.2	562.9	489.5	410.0	336.5	269.2
7.5°	777.1	764.8	740.4	715.9	679.2	630.2	569.0	489.5	410.0	342.6	275.3
5°	777.1	764.8	740.4	722.0	685.3	636.3	575.2	495.6	416.1	342.6	275.3
2.5°	777.1	764.8	740.4	722.0	685.3	636.3	575.2	495.6	416.1	342.6	275.3
0°	777.1	764.8	740.4	722.0	685.3	636.3	575.2	495.6	416.1	342.6	275.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	6.1	6.1	0.0	0.0
85°	18.4	12.2	6.1	0.0
82.5°	24.5	18.4	6.1	0.0
80°	30.6	18.4	12.2	0.0
77.5°	36.7	24.5	12.2	0.0
75°	48.9	30.6	18.4	0.0
72.5°	55.1	36.7	18.4	0.0
70°	61.2	42.8	18.4	0.0
67.5°	73.4	48.9	24.5	0.0
65°	85.7	48.9	24.5	0.0
62.5°	97.9	55.1	30.6	0.0
60°	110.1	61.2	30.6	0.0
57.5°	122.4	67.3	30.6	0.0
55°	128.5	73.4	36.7	0.0
52.5°	140.7	79.5	36.7	0.0
50°	153.0	91.8	36.7	0.0
47.5°	159.1	97.9	42.8	0.0
45°	165.2	104.0	42.8	0.0
42.5°	171.3	110.1	42.8	0.0
40°	177.4	116.3	48.9	0.0
37.5°	177.4	116.3	48.9	0.0
35°	183.6	122.4	48.9	0.0
32.5°	189.7	128.5	48.9	0.0
30°	189.7	134.6	55.1	0.0
27.5°	195.8	134.6	55.1	0.0
25°	195.8	140.7	55.1	0.0
22.5°	201.9	146.8	55.1	0.0
20°	201.9	146.8	55.1	0.0
17.5°	208.0	153.0	61.2	0.0
15°	208.0	153.0	61.2	0.0
12.5°	208.0	153.0	61.2	0.0
10°	214.2	159.1	61.2	0.0
7.5°	214.2	159.1	61.2	0.0
5°	214.2	159.1	61.2	0.0
2.5°	214.2	159.1	61.2	0.0
0°	214.2	159.1	61.2	0.0

(END OF REPORT)