

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: P723240

Luminaire Tested: **IFLD-S-SA6D-727-U-22**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P723240  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-22  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

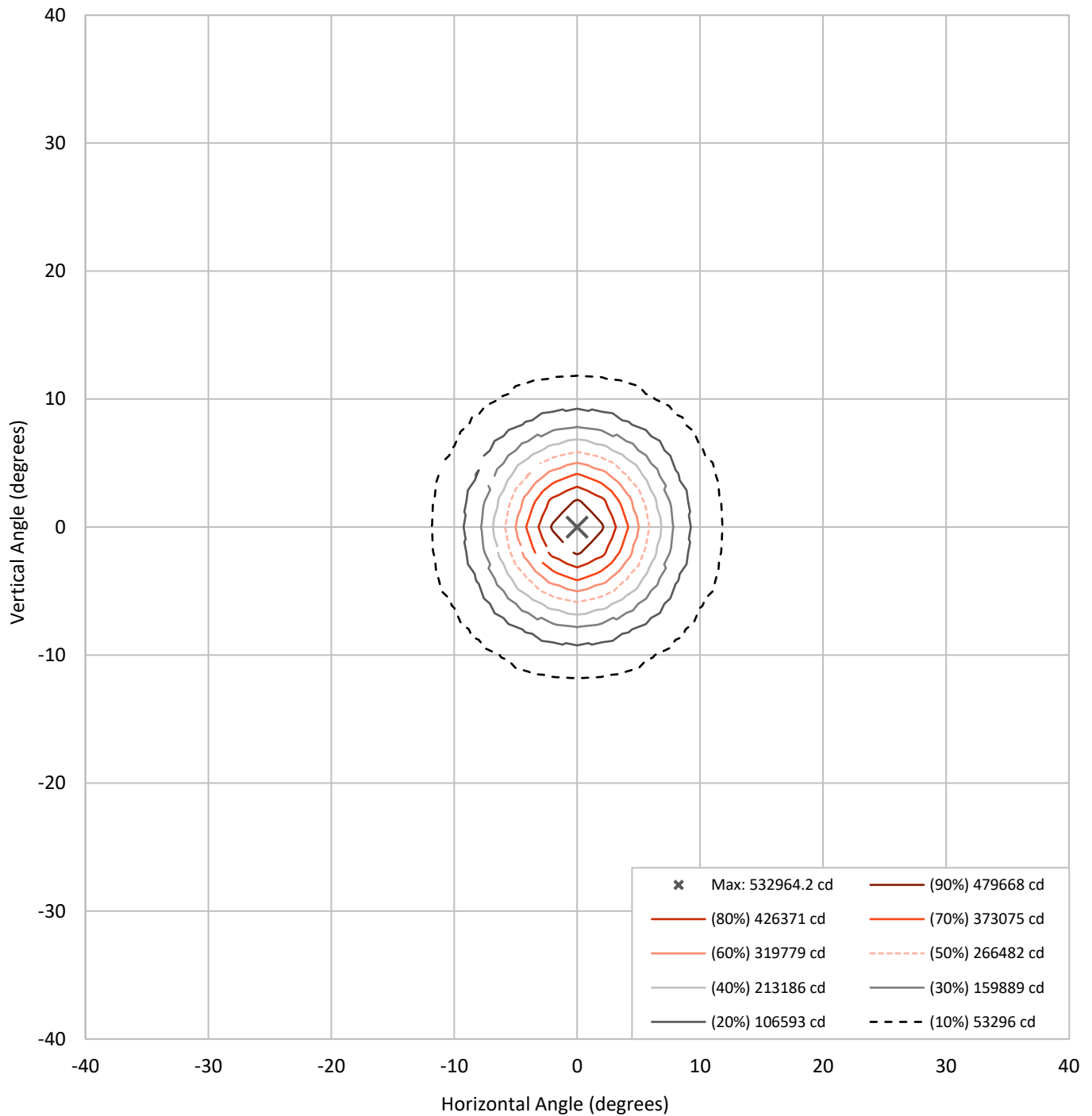
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	35688.6 lumens	Max Intensity:	532964.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	96.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	8645.1 lumens	Field Lumens:	18578.3 lumens
Beam Efficiency:	24.2%	Field Efficiency:	52.1%

Input Watts (W): 368.2  
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





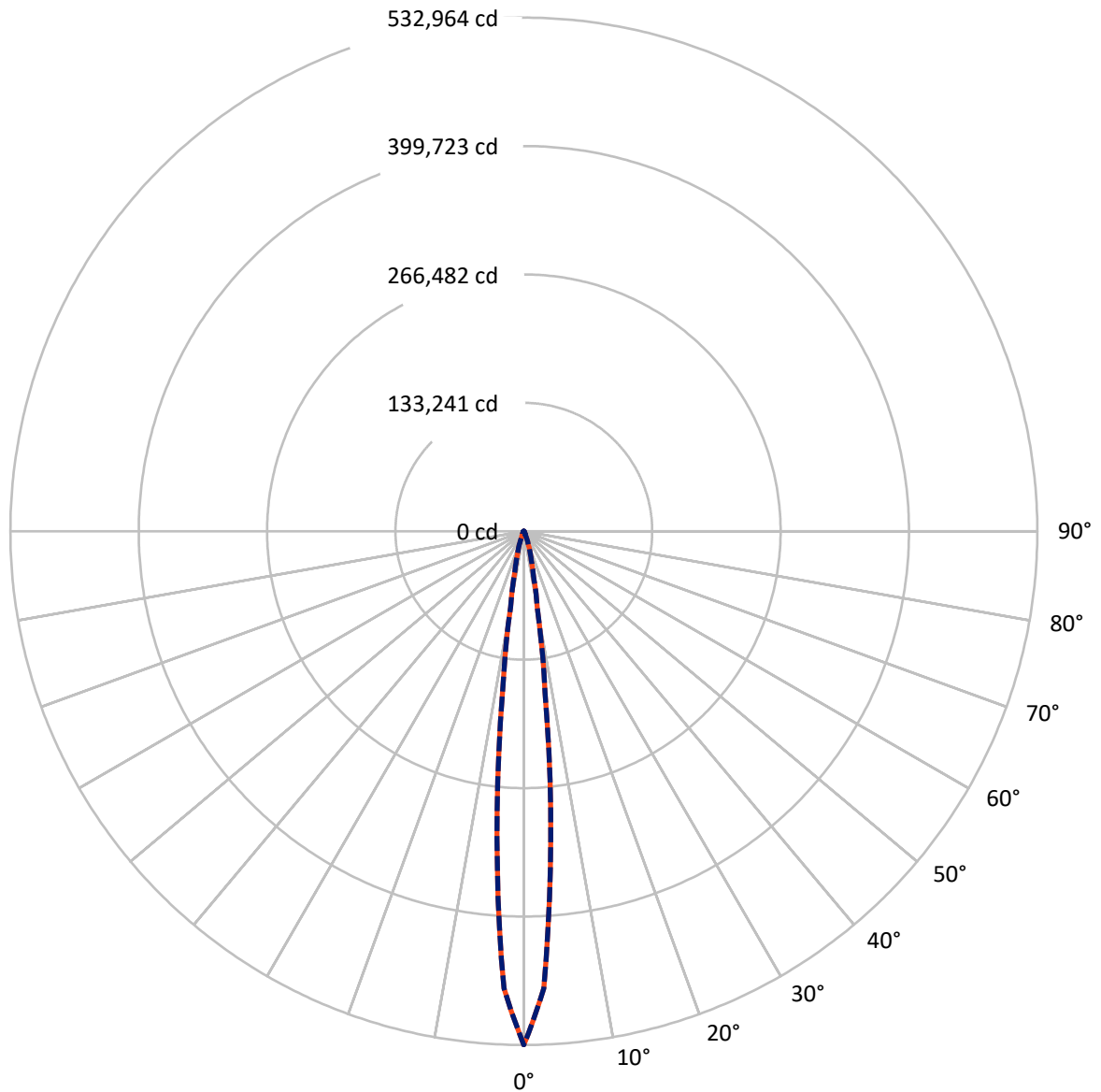
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### Lumen Table

90	1.1		7.6		17.1		25.8		29.3		25.8		17.1		7.6		1.1		
80	1.1		7.6		17.1		25.8		29.3		25.8		17.1		7.6		1.1		
70	3.4	3.2	5.9	9.1	12.3	14.9	16.7	17.6	17.6	16.7	14.9	12.3	9.1	5.9	3.2	3.4			
60		4.4	8.2	12.2	15.5	17.8	19.5	20.3	20.3	19.5	17.8	15.5	12.2	8.2	4.4				
50	5.1	5.5	9.9	13.7	16.8	19.6	22.4	24.4	24.4	22.4	19.6	16.8	13.7	9.9	5.5	5.1			
40		6.4	10.8	14.5	18.5	25.0	31.9	36.7	36.7	31.9	25.0	18.5	14.5	10.8	6.4				
30	6.3	7.0	11.3	15.3	22.6	34.4	65.2	124.8	124.8	65.2	34.4	22.6	15.3	11.3	7.0	6.3			
20		7.3	11.6	16.5	27.1	61.5	301.9	843.5	843.5	301.9	61.5	27.1	16.5	11.6	7.3				
10	6.7	7.5	11.7	17.4	30.3	114.8	822.1	5850.3	5850.3	822.1	114.8	30.3	17.4	11.7	7.5	6.7			
0		7.5	11.7	17.4	30.3	114.8	822.1	5850.3	5850.3	822.1	114.8	30.3	17.4	11.7	7.5				
-10	6.3	7.3	11.6	16.5	27.1	61.5	301.9	843.5	843.5	301.9	61.5	27.1	16.5	11.6	7.3	6.3			
-20		7.0	11.3	15.3	22.6	34.4	65.2	124.8	124.8	65.2	34.4	22.6	15.3	11.3	7.0				
-30	5.1	6.4	10.8	14.5	18.5	25.0	31.9	36.7	36.7	31.9	25.0	18.5	14.5	10.8	6.4	5.1			
-40		5.5	9.9	13.7	16.8	19.6	22.4	24.4	24.4	22.4	19.6	16.8	13.7	9.9	5.5				
-50	3.4	4.4	8.2	12.2	15.5	17.8	19.5	20.3	20.3	19.5	17.8	15.5	12.2	8.2	4.4	3.4			
-60		3.2	5.9	9.1	12.3	14.9	16.7	17.6	17.6	16.7	14.9	12.3	9.1	5.9	3.2				
-70	1.1	7.6		17.1		25.8		29.3		25.8		17.1		7.6		1.1			
-80		7.6		17.1		25.8		29.3		25.8		17.1		7.6					
-90	1.1		7.6		17.1		25.8		29.3		25.8		17.1		7.6		1.1		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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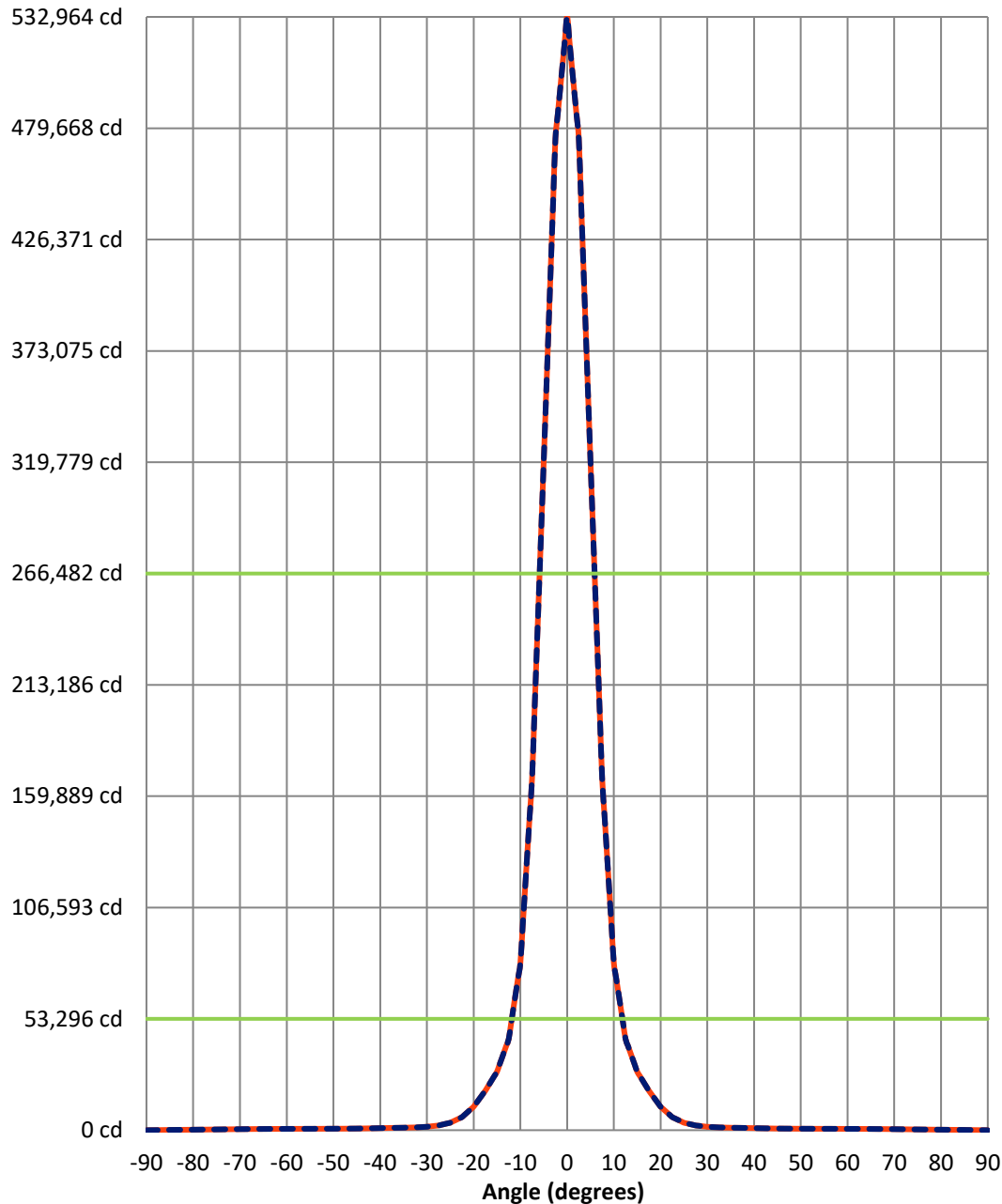
### Luminous Intensity Polar Plot



— 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: 8645.1  
Efficiency: 24.2%

**Field:**  
H Angle: 23.7°  
V Angle: 23.7°  
Lumens: 18578.3  
Efficiency: 52.1%

**Spill:**  
Lumens: 17110.3  
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°	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	47.4	47.4	47.4
85°	136.9	136.9	136.9	136.9	136.9	131.7	131.7	131.7	126.4	126.4	121.1
82.5°	184.4	184.4	184.4	184.4	184.4	179.1	179.1	179.1	173.8	173.8	168.6
80°	237.0	237.0	237.0	237.0	231.8	231.8	231.8	226.5	226.5	221.2	216.0
77.5°	295.0	295.0	295.0	295.0	289.7	289.7	284.4	279.2	279.2	273.9	268.6
75°	358.2	358.2	358.2	352.9	352.9	347.6	342.4	342.4	337.1	326.6	321.3
72.5°	426.6	426.6	426.6	421.4	421.4	416.1	410.8	405.6	395.0	389.8	379.2
70°	495.1	495.1	495.1	489.9	484.6	479.3	474.1	468.8	458.2	453.0	442.4
67.5°	547.8	547.8	547.8	542.5	542.5	537.3	532.0	526.7	516.2	510.9	500.4
65°	589.9	589.9	589.9	584.7	584.7	579.4	574.1	568.9	563.6	558.3	547.8
62.5°	621.5	621.5	621.5	616.3	616.3	611.0	611.0	605.7	600.5	595.2	584.7
60°	637.3	637.3	637.3	637.3	632.1	632.1	632.1	626.8	626.8	621.5	616.3
57.5°	658.4	658.4	658.4	658.4	653.1	653.1	647.9	642.6	642.6	637.3	632.1
55°	668.9	668.9	668.9	668.9	668.9	663.7	663.7	663.7	658.4	653.1	647.9
52.5°	684.7	684.7	684.7	684.7	679.5	679.5	674.2	674.2	668.9	663.7	663.7
50°	705.8	705.8	705.8	700.5	700.5	695.3	690.0	684.7	684.7	679.5	674.2
47.5°	737.4	737.4	737.4	732.1	726.9	721.6	716.3	705.8	700.5	695.3	684.7
45°	784.8	784.8	779.5	774.3	769.0	758.5	747.9	737.4	726.9	716.3	705.8
42.5°	879.6	879.6	869.1	858.6	842.8	821.7	800.6	779.5	763.7	747.9	732.1
40°	990.2	990.2	979.7	963.9	942.8	921.8	890.2	858.6	827.0	784.8	763.7
37.5°	1100.9	1100.9	1090.3	1074.5	1053.4	1021.8	990.2	953.4	911.2	863.8	821.7
35°	1185.1	1185.1	1174.6	1164.1	1143.0	1121.9	1090.3	1053.4	1006.0	953.4	900.7
32.5°	1332.6	1332.6	1311.5	1285.2	1253.6	1211.5	1169.3	1137.7	1100.9	1042.9	985.0
30°	1632.8	1632.8	1585.4	1532.8	1453.8	1358.9	1290.5	1227.3	1169.3	1121.9	1064.0
27.5°	2264.9	2238.6	2159.6	2027.9	1854.1	1632.8	1506.4	1364.2	1269.4	1185.1	1132.5
25°	3571.2	3508.0	3328.9	3033.9	2628.3	2196.4	1912.0	1611.8	1438.0	1295.7	1200.9
22.5°	6246.9	6104.7	5688.6	5009.1	4087.4	3265.7	2617.8	2080.6	1696.0	1464.3	1295.7
20°	11229.7	10934.8	10049.9	8627.7	6710.4	5230.4	3771.3	2870.6	2138.5	1696.0	1438.0
17.5°	18888.3	18361.5	16807.7	14316.3	11229.7	8453.9	5825.6	4050.5	2870.6	2080.6	1611.8
15°	27990.0	27252.6	25103.6	21685.2	17466.1	12967.9	9054.4	5825.6	3771.3	2617.8	1912.0
12.5°	43623.2	42100.9	37692.3	30823.8	24503.1	18561.7	12967.9	8453.9	5230.4	3265.7	2196.4
10°	80040.8	75600.5	63011.8	43955.0	33578.6	24503.1	17466.1	11229.7	6710.4	4087.4	2628.3
7.5°	168419.5	148683.2	107330.2	71423.6	43955.0	30823.8	21685.2	14316.3	8627.7	5009.1	3033.9
5°	320263.1	279947.7	192880.5	107330.2	63011.8	37692.3	25103.6	16807.7	10049.9	5688.6	3328.9
2.5°	474771.9	419039.4	279947.7	148683.2	75600.5	42100.9	27252.6	18361.5	10934.8	6104.7	3508.0
0°	532964.2	474771.9	320263.1	168419.5	80040.8	43623.2	27990.0	18888.3	11229.7	6246.9	3571.2



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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°	47.4	47.4	42.1	42.1	42.1	42.1	36.9	36.9	36.9	31.6	31.6
85°	115.9	115.9	110.6	105.3	100.1	100.1	94.8	89.5	84.3	79.0	68.5
82.5°	168.6	163.3	163.3	158.0	152.7	152.7	147.5	142.2	136.9	131.7	121.1
80°	210.7	210.7	205.4	200.2	194.9	189.6	179.1	173.8	168.6	163.3	158.0
77.5°	263.4	258.1	247.6	242.3	237.0	226.5	221.2	210.7	205.4	194.9	184.4
75°	316.0	305.5	300.2	289.7	279.2	268.6	258.1	247.6	237.0	226.5	216.0
72.5°	368.7	358.2	352.9	337.1	326.6	316.0	300.2	289.7	279.2	263.4	247.6
70°	431.9	421.4	405.6	395.0	379.2	363.4	347.6	331.8	316.0	300.2	284.4
67.5°	489.9	479.3	463.5	447.7	431.9	416.1	395.0	379.2	358.2	337.1	321.3
65°	537.3	526.7	516.2	500.4	484.6	463.5	442.4	421.4	400.3	379.2	358.2
62.5°	574.1	563.6	553.1	542.5	526.7	510.9	495.1	468.8	447.7	421.4	395.0
60°	605.7	600.5	589.9	574.1	563.6	547.8	532.0	510.9	489.9	458.2	431.9
57.5°	626.8	621.5	616.3	605.7	595.2	579.4	563.6	542.5	521.5	500.4	468.8
55°	642.6	637.3	632.1	626.8	616.3	605.7	589.9	574.1	553.1	532.0	505.7
52.5°	658.4	653.1	642.6	637.3	632.1	621.5	611.0	595.2	579.4	558.3	532.0
50°	668.9	663.7	658.4	653.1	642.6	632.1	626.8	616.3	600.5	579.4	558.3
47.5°	679.5	674.2	668.9	663.7	658.4	647.9	637.3	626.8	616.3	600.5	579.4
45°	695.3	684.7	679.5	668.9	663.7	658.4	647.9	637.3	626.8	616.3	595.2
42.5°	716.3	700.5	695.3	684.7	674.2	668.9	658.4	647.9	637.3	626.8	611.0
40°	742.7	726.9	711.1	695.3	684.7	674.2	668.9	658.4	647.9	632.1	621.5
37.5°	779.5	753.2	732.1	711.1	695.3	684.7	674.2	663.7	658.4	642.6	632.1
35°	848.0	790.1	758.5	732.1	711.1	695.3	684.7	668.9	663.7	653.1	637.3
32.5°	921.8	858.6	795.4	758.5	732.1	711.1	695.3	679.5	668.9	658.4	642.6
30°	1000.8	927.0	858.6	790.1	753.2	726.9	700.5	684.7	674.2	663.7	653.1
27.5°	1074.5	1000.8	921.8	848.0	779.5	742.7	716.3	695.3	679.5	668.9	658.4
25°	1132.5	1064.0	985.0	900.7	821.7	763.7	732.1	705.8	684.7	674.2	663.7
22.5°	1185.1	1121.9	1042.9	953.4	863.8	784.8	747.9	716.3	695.3	679.5	663.7
20°	1269.4	1169.3	1100.9	1006.0	911.2	827.0	763.7	726.9	700.5	684.7	668.9
17.5°	1364.2	1227.3	1137.7	1053.4	953.4	858.6	779.5	737.4	705.8	684.7	674.2
15°	1506.4	1290.5	1169.3	1090.3	990.2	890.2	800.6	747.9	716.3	690.0	674.2
12.5°	1632.8	1358.9	1211.5	1121.9	1021.8	921.8	821.7	758.5	721.6	695.3	679.5
10°	1854.1	1453.8	1253.6	1143.0	1053.4	942.8	842.8	769.0	726.9	700.5	679.5
7.5°	2027.9	1532.8	1285.2	1164.1	1074.5	963.9	858.6	774.3	732.1	700.5	684.7
5°	2159.6	1585.4	1311.5	1174.6	1090.3	979.7	869.1	779.5	737.4	705.8	684.7
2.5°	2238.6	1632.8	1332.6	1185.1	1100.9	990.2	879.6	784.8	737.4	705.8	684.7
0°	2264.9	1632.8	1332.6	1185.1	1100.9	990.2	879.6	784.8	737.4	705.8	684.7





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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°	31.6	26.3	26.3	26.3	21.1	21.1	15.8	15.8	15.8	10.5	10.5
85°	63.2	57.9	52.7	47.4	42.1	42.1	36.9	31.6	26.3	21.1	15.8
82.5°	110.6	105.3	94.8	84.3	73.7	63.2	52.7	47.4	42.1	31.6	26.3
80°	152.7	142.2	136.9	121.1	110.6	94.8	84.3	68.5	52.7	47.4	36.9
77.5°	179.1	168.6	158.0	152.7	142.2	126.4	110.6	94.8	79.0	57.9	47.4
75°	205.4	194.9	184.4	173.8	163.3	147.5	136.9	121.1	100.1	79.0	52.7
72.5°	237.0	221.2	210.7	194.9	179.1	168.6	152.7	142.2	121.1	94.8	68.5
70°	268.6	252.8	231.8	216.0	200.2	184.4	168.6	152.7	136.9	110.6	84.3
67.5°	300.2	279.2	263.4	242.3	221.2	205.4	184.4	168.6	147.5	126.4	94.8
65°	331.8	310.8	289.7	268.6	242.3	221.2	200.2	179.1	163.3	142.2	110.6
62.5°	368.7	342.4	316.0	289.7	268.6	242.3	216.0	194.9	173.8	152.7	121.1
60°	405.6	374.0	342.4	316.0	289.7	263.4	231.8	210.7	184.4	158.0	136.9
57.5°	437.2	405.6	374.0	342.4	310.8	279.2	252.8	221.2	194.9	168.6	142.2
55°	474.1	437.2	405.6	368.7	331.8	300.2	268.6	237.0	205.4	179.1	152.7
52.5°	505.7	468.8	431.9	395.0	358.2	321.3	284.4	247.6	216.0	184.4	158.0
50°	532.0	500.4	458.2	421.4	379.2	337.1	300.2	263.4	226.5	194.9	163.3
47.5°	553.1	521.5	489.9	447.7	400.3	358.2	316.0	279.2	237.0	205.4	168.6
45°	574.1	542.5	510.9	468.8	421.4	379.2	331.8	289.7	247.6	210.7	173.8
42.5°	589.9	563.6	532.0	495.1	442.4	395.0	347.6	300.2	258.1	221.2	179.1
40°	605.7	579.4	547.8	510.9	463.5	416.1	363.4	316.0	268.6	226.5	189.6
37.5°	616.3	595.2	563.6	526.7	484.6	431.9	379.2	326.6	279.2	237.0	194.9
35°	626.8	605.7	574.1	542.5	500.4	447.7	395.0	337.1	289.7	242.3	200.2
32.5°	632.1	616.3	589.9	553.1	516.2	463.5	405.6	352.9	300.2	247.6	205.4
30°	637.3	621.5	600.5	563.6	526.7	479.3	421.4	358.2	305.5	258.1	210.7
27.5°	642.6	626.8	605.7	574.1	537.3	489.9	431.9	368.7	316.0	263.4	210.7
25°	647.9	632.1	616.3	584.7	547.8	500.4	442.4	379.2	321.3	268.6	216.0
22.5°	653.1	637.3	621.5	595.2	558.3	510.9	453.0	389.8	326.6	273.9	221.2
20°	658.4	642.6	626.8	600.5	563.6	516.2	458.2	395.0	337.1	279.2	226.5
17.5°	663.7	642.6	626.8	605.7	568.9	526.7	468.8	405.6	342.4	279.2	226.5
15°	663.7	647.9	632.1	611.0	574.1	532.0	474.1	410.8	342.4	284.4	231.8
12.5°	663.7	653.1	632.1	611.0	579.4	537.3	479.3	416.1	347.6	289.7	231.8
10°	668.9	653.1	632.1	616.3	584.7	542.5	484.6	421.4	352.9	289.7	231.8
7.5°	668.9	658.4	637.3	616.3	584.7	542.5	489.9	421.4	352.9	295.0	237.0
5°	668.9	658.4	637.3	621.5	589.9	547.8	495.1	426.6	358.2	295.0	237.0
2.5°	668.9	658.4	637.3	621.5	589.9	547.8	495.1	426.6	358.2	295.0	237.0
0°	668.9	658.4	637.3	621.5	589.9	547.8	495.1	426.6	358.2	295.0	237.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.3	5.3	0.0	0.0
85°	15.8	10.5	5.3	0.0
82.5°	21.1	15.8	5.3	0.0
80°	26.3	15.8	10.5	0.0
77.5°	31.6	21.1	10.5	0.0
75°	42.1	26.3	15.8	0.0
72.5°	47.4	31.6	15.8	0.0
70°	52.7	36.9	15.8	0.0
67.5°	63.2	42.1	21.1	0.0
65°	73.7	42.1	21.1	0.0
62.5°	84.3	47.4	26.3	0.0
60°	94.8	52.7	26.3	0.0
57.5°	105.3	57.9	26.3	0.0
55°	110.6	63.2	31.6	0.0
52.5°	121.1	68.5	31.6	0.0
50°	131.7	79.0	31.6	0.0
47.5°	136.9	84.3	36.9	0.0
45°	142.2	89.5	36.9	0.0
42.5°	147.5	94.8	36.9	0.0
40°	152.7	100.1	42.1	0.0
37.5°	152.7	100.1	42.1	0.0
35°	158.0	105.3	42.1	0.0
32.5°	163.3	110.6	42.1	0.0
30°	163.3	115.9	47.4	0.0
27.5°	168.6	115.9	47.4	0.0
25°	168.6	121.1	47.4	0.0
22.5°	173.8	126.4	47.4	0.0
20°	173.8	126.4	47.4	0.0
17.5°	179.1	131.7	52.7	0.0
15°	179.1	131.7	52.7	0.0
12.5°	179.1	131.7	52.7	0.0
10°	184.4	136.9	52.7	0.0
7.5°	184.4	136.9	52.7	0.0
5°	184.4	136.9	52.7	0.0
2.5°	184.4	136.9	52.7	0.0
0°	184.4	136.9	52.7	0.0

(END OF REPORT)