

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: P723415

Luminaire Tested: **IFLD-S-SA6E-827-U-22**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P723415  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-827-U-22  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

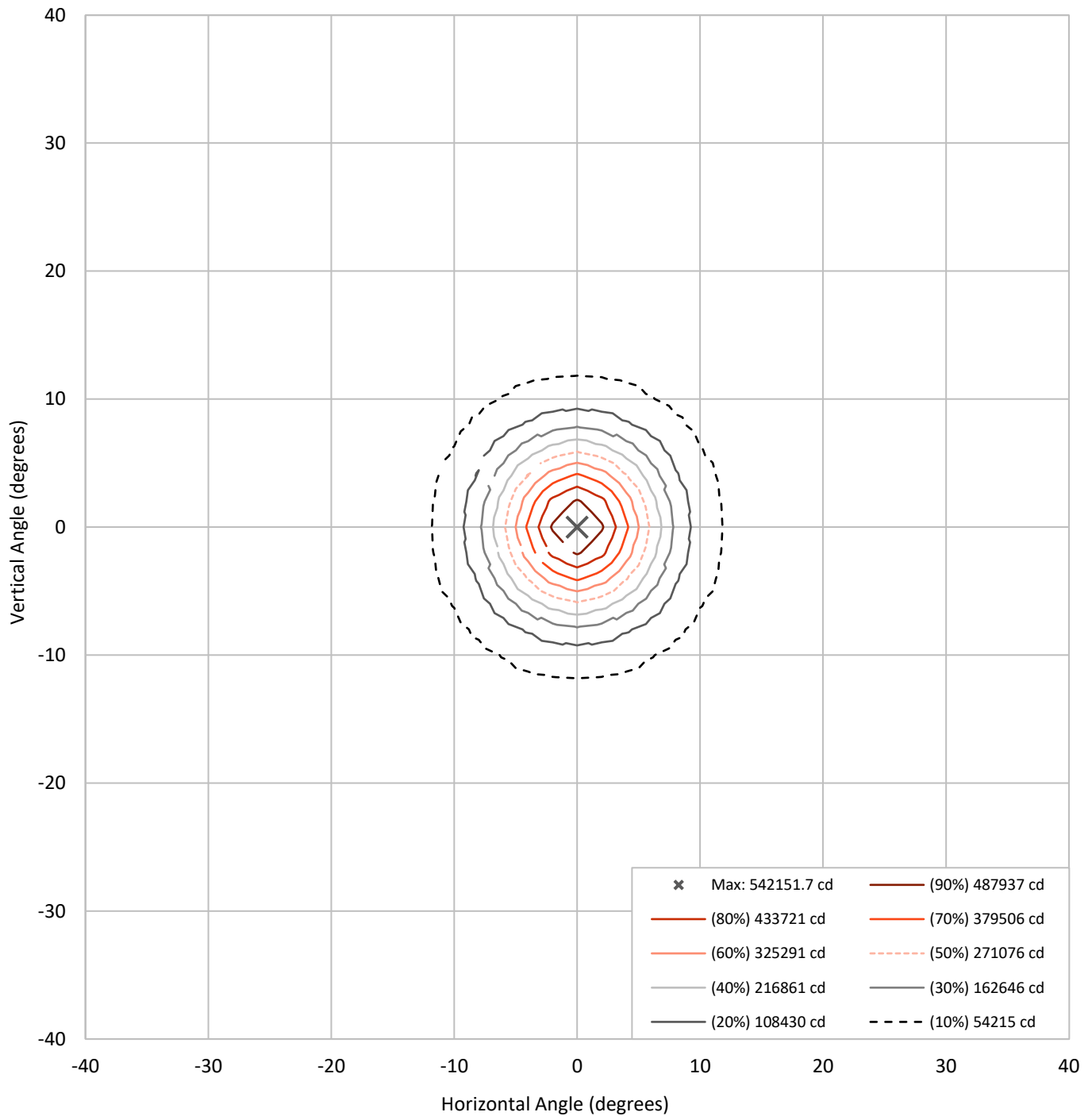
Lumens per Lamp:	N/A	NEMA Type:	2H x 2V
Luminaire Lumens:	36303.9 lumens	Max Intensity:	542151.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	78.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	11.8°H x 11.8°V	Field Angle (10%):	23.7°H x 23.7°V
Beam Lumens:	8794.1 lumens	Field Lumens:	18898.6 lumens
Beam Efficiency:	24.2%	Field Efficiency:	52.1%

Input Watts (W): 464.2  
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





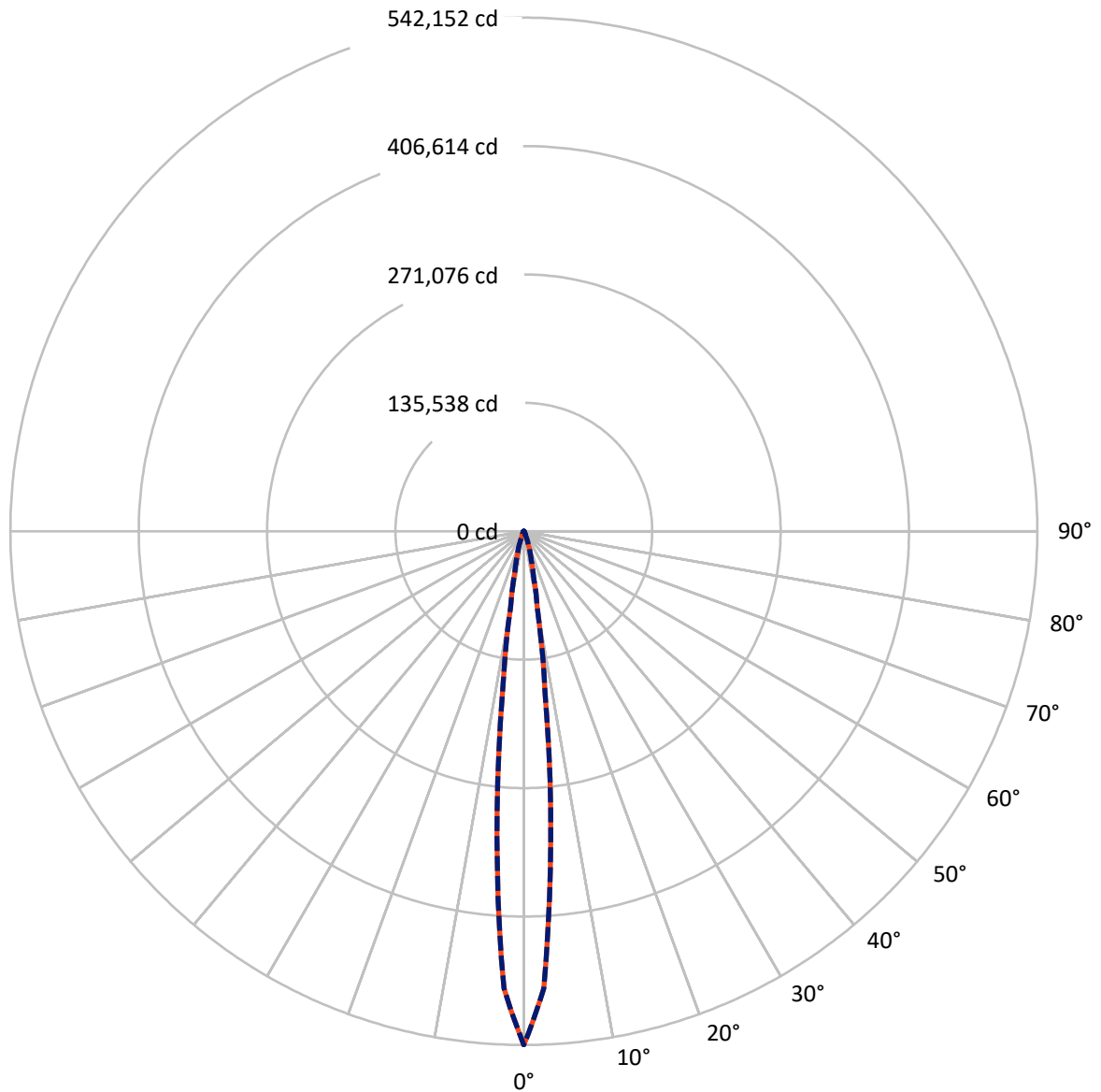
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### Lumen Table

90	1.2	7.7		17.4		26.2		29.8		26.2		17.4		7.7		1.2			
80	1.2	7.7		17.4		26.2		29.8		26.2		17.4		7.7		1.2			
70	3.4	3.2	6.0	9.3	12.5	15.1	16.9	17.9	17.9	16.9	15.1	12.5	9.3	6.0	3.2	3.4			
60		4.4	8.4	12.4	15.7	18.1	19.8	20.7	20.7	19.8	18.1	15.7	12.4	8.4	4.4				
50	5.2	5.6	10.1	13.9	17.1	20.0	22.8	24.8	24.8	22.8	20.0	17.1	13.9	10.1	5.6	5.2			
40		6.5	11.0	14.7	18.9	25.4	32.4	37.3	37.3	32.4	25.4	18.9	14.7	11.0	6.5				
30	6.4	7.1	11.5	15.6	23.0	35.0	66.3	127.0	127.0	66.3	35.0	23.0	15.6	11.5	7.1	6.4			
20		7.5	11.8	16.8	27.6	62.5	307.1	858.0	858.0	307.1	62.5	27.6	16.8	11.8	7.5				
10	6.8	7.6	11.9	17.7	30.8	116.8	836.3	5951.2	5951.2	836.3	116.8	30.8	17.7	11.9	7.6	6.8			
0		7.6	11.9	17.7	30.8	116.8	836.3	5951.2	5951.2	836.3	116.8	30.8	17.7	11.9	7.6				
-10	6.4	7.5	11.8	16.8	27.6	62.5	307.1	858.0	858.0	307.1	62.5	27.6	16.8	11.8	7.5	6.4			
-20		7.1	11.5	15.6	23.0	35.0	66.3	127.0	127.0	66.3	35.0	23.0	15.6	11.5	7.1				
-30	5.2	6.5	11.0	14.7	18.9	25.4	32.4	37.3	37.3	32.4	25.4	18.9	14.7	11.0	6.5	5.2			
-40		5.6	10.1	13.9	17.1	20.0	22.8	24.8	24.8	22.8	20.0	17.1	13.9	10.1	5.6				
-50	3.4	4.4	8.4	12.4	15.7	18.1	19.8	20.7	20.7	19.8	18.1	15.7	12.4	8.4	4.4	3.4			
-60		3.2	6.0	9.3	12.5	15.1	16.9	17.9	17.9	16.9	15.1	12.5	9.3	6.0	3.2				
-70	1.2	7.7		17.4		26.2		29.8		26.2		17.4		7.7		1.2			
-80		7.7		17.4		26.2		29.8		26.2		17.4		7.7					
-90	1.2	7.7		17.4		26.2		29.8		26.2		17.4		7.7		1.2			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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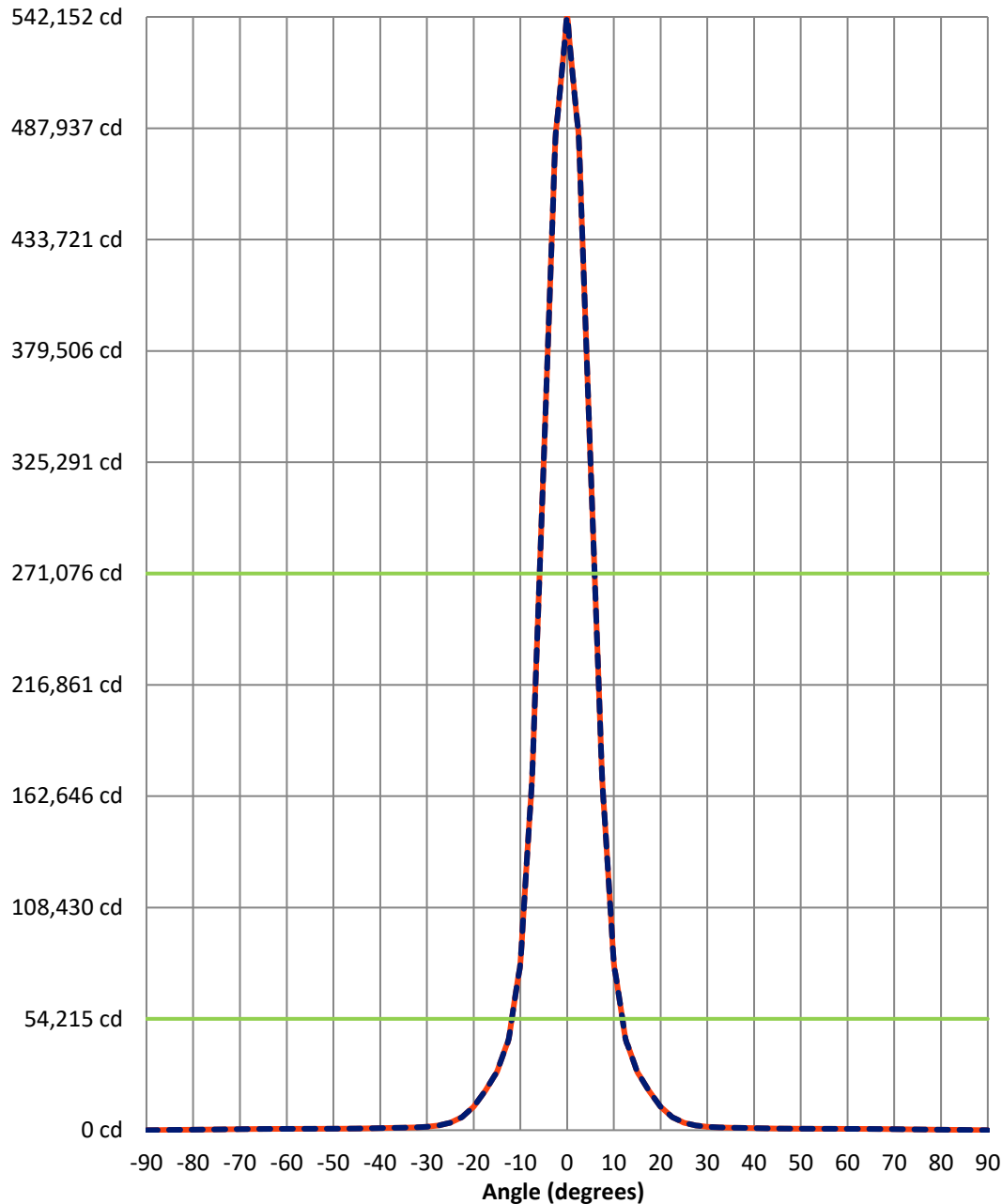
### Luminous Intensity Polar Plot



— 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: 8794.1  
 Efficiency: 24.2%

**Field:**  
 H Angle: 23.7°  
 V Angle: 23.7°  
 Lumens: 18898.6  
 Efficiency: 52.1%

**Spill:**  
 Lumens: 17405.3  
 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°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	48.2	48.2	48.2
85°	139.3	139.3	139.3	139.3	139.3	134.0	134.0	134.0	128.6	128.6	123.2
82.5°	187.5	187.5	187.5	187.5	187.5	182.2	182.2	182.2	176.8	176.8	171.5
80°	241.1	241.1	241.1	241.1	235.8	235.8	235.8	230.4	230.4	225.0	219.7
77.5°	300.0	300.0	300.0	300.0	294.7	294.7	289.3	284.0	284.0	278.6	273.3
75°	364.3	364.3	364.3	359.0	359.0	353.6	348.3	348.3	342.9	332.2	326.8
72.5°	434.0	434.0	434.0	428.6	428.6	423.3	417.9	412.6	401.9	396.5	385.8
70°	503.7	503.7	503.7	498.3	492.9	487.6	482.2	476.9	466.1	460.8	450.1
67.5°	557.2	557.2	557.2	551.9	551.9	546.5	541.2	535.8	525.1	519.7	509.0
65°	600.1	600.1	600.1	594.7	594.7	589.4	584.0	578.7	573.3	568.0	557.2
62.5°	632.2	632.2	632.2	626.9	626.9	621.5	621.5	616.2	610.8	605.5	594.7
60°	648.3	648.3	648.3	648.3	643.0	643.0	643.0	637.6	637.6	632.2	626.9
57.5°	669.8	669.8	669.8	669.8	664.4	664.4	659.0	653.7	653.7	648.3	643.0
55°	680.5	680.5	680.5	680.5	680.5	675.1	675.1	675.1	669.8	664.4	659.0
52.5°	696.5	696.5	696.5	696.5	691.2	691.2	685.8	685.8	680.5	675.1	675.1
50°	718.0	718.0	718.0	712.6	712.6	707.3	701.9	696.5	696.5	691.2	685.8
47.5°	750.1	750.1	750.1	744.8	739.4	734.0	728.7	718.0	712.6	707.3	696.5
45°	798.3	798.3	793.0	787.6	782.3	771.6	760.8	750.1	739.4	728.7	718.0
42.5°	894.8	894.8	884.1	873.4	857.3	835.9	814.4	793.0	776.9	760.8	744.8
40°	1007.3	1007.3	996.6	980.5	959.1	937.7	905.5	873.4	841.2	798.3	776.9
37.5°	1119.8	1119.8	1109.1	1093.0	1071.6	1039.5	1007.3	969.8	926.9	878.7	835.9
35°	1205.6	1205.6	1194.8	1184.1	1162.7	1141.3	1109.1	1071.6	1023.4	969.8	916.2
32.5°	1355.6	1355.6	1334.1	1307.4	1275.2	1232.3	1189.5	1157.3	1119.8	1060.9	1002.0
30°	1661.0	1661.0	1612.8	1559.2	1478.8	1382.4	1312.7	1248.4	1189.5	1141.3	1082.3
27.5°	2304.0	2277.2	2196.8	2062.8	1886.0	1661.0	1532.4	1387.7	1291.3	1205.6	1152.0
25°	3632.7	3568.4	3386.3	3086.2	2673.7	2234.3	1945.0	1639.6	1462.7	1318.1	1221.6
22.5°	6354.6	6210.0	5786.7	5095.5	4157.8	3322.0	2662.9	2116.4	1725.3	1489.5	1318.1
20°	11423.3	11123.3	10223.1	8776.4	6826.1	5320.5	3836.3	2920.1	2175.4	1725.3	1462.7
17.5°	19213.9	18678.1	17097.5	14563.1	11423.3	8599.6	5926.0	4120.3	2920.1	2116.4	1639.6
15°	28472.5	27722.4	25536.3	22059.0	17767.2	13191.5	9210.4	5926.0	3836.3	2662.9	1945.0
12.5°	44375.2	42826.7	38342.0	31355.2	24925.5	18881.7	13191.5	8599.6	5320.5	3322.0	2234.3
10°	81420.5	76903.7	64098.0	44712.7	34157.4	24925.5	17767.2	11423.3	6826.1	4157.8	2673.7
7.5°	171322.8	151246.3	109180.5	72654.8	44712.7	31355.2	22059.0	14563.1	8776.4	5095.5	3086.2
5°	325784.0	284773.6	196205.5	109180.5	64098.0	38342.0	25536.3	17097.5	10223.1	5786.7	3386.3
2.5°	482956.2	426263.0	284773.6	151246.3	76903.7	42826.7	27722.4	18678.1	11123.3	6210.0	3568.4
0°	542151.7	482956.2	325784.0	171322.8	81420.5	44375.2	28472.5	19213.9	11423.3	6354.6	3632.7



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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°	48.2	48.2	42.9	42.9	42.9	42.9	37.5	37.5	37.5	32.1	32.1
85°	117.9	117.9	112.5	107.2	101.8	101.8	96.4	91.1	85.7	80.4	69.7
82.5°	171.5	166.1	166.1	160.7	155.4	155.4	150.0	144.7	139.3	134.0	123.2
80°	214.3	214.3	209.0	203.6	198.2	192.9	182.2	176.8	171.5	166.1	160.7
77.5°	267.9	262.5	251.8	246.5	241.1	230.4	225.0	214.3	209.0	198.2	187.5
75°	321.5	310.8	305.4	294.7	284.0	273.3	262.5	251.8	241.1	230.4	219.7
72.5°	375.1	364.3	359.0	342.9	332.2	321.5	305.4	294.7	284.0	267.9	251.8
70°	439.4	428.6	412.6	401.9	385.8	369.7	353.6	337.6	321.5	305.4	289.3
67.5°	498.3	487.6	471.5	455.4	439.4	423.3	401.9	385.8	364.3	342.9	326.8
65°	546.5	535.8	525.1	509.0	492.9	471.5	450.1	428.6	407.2	385.8	364.3
62.5°	584.0	573.3	562.6	551.9	535.8	519.7	503.7	476.9	455.4	428.6	401.9
60°	616.2	610.8	600.1	584.0	573.3	557.2	541.2	519.7	498.3	466.1	439.4
57.5°	637.6	632.2	626.9	616.2	605.5	589.4	573.3	551.9	530.4	509.0	476.9
55°	653.7	648.3	643.0	637.6	626.9	616.2	600.1	584.0	562.6	541.2	514.4
52.5°	669.8	664.4	653.7	648.3	643.0	632.2	621.5	605.5	589.4	568.0	541.2
50°	680.5	675.1	669.8	664.4	653.7	643.0	637.6	626.9	610.8	589.4	568.0
47.5°	691.2	685.8	680.5	675.1	669.8	659.0	648.3	637.6	626.9	610.8	589.4
45°	707.3	696.5	691.2	680.5	675.1	669.8	659.0	648.3	637.6	626.9	605.5
42.5°	728.7	712.6	707.3	696.5	685.8	680.5	669.8	659.0	648.3	637.6	621.5
40°	755.5	739.4	723.3	707.3	696.5	685.8	680.5	669.8	659.0	643.0	632.2
37.5°	793.0	766.2	744.8	723.3	707.3	696.5	685.8	675.1	669.8	653.7	643.0
35°	862.6	803.7	771.6	744.8	723.3	707.3	696.5	680.5	675.1	664.4	648.3
32.5°	937.7	873.4	809.1	771.6	744.8	723.3	707.3	691.2	680.5	669.8	653.7
30°	1018.0	943.0	873.4	803.7	766.2	739.4	712.6	696.5	685.8	675.1	664.4
27.5°	1093.0	1018.0	937.7	862.6	793.0	755.5	728.7	707.3	691.2	680.5	669.8
25°	1152.0	1082.3	1002.0	916.2	835.9	776.9	744.8	718.0	696.5	685.8	675.1
22.5°	1205.6	1141.3	1060.9	969.8	878.7	798.3	760.8	728.7	707.3	691.2	675.1
20°	1291.3	1189.5	1119.8	1023.4	926.9	841.2	776.9	739.4	712.6	696.5	680.5
17.5°	1387.7	1248.4	1157.3	1071.6	969.8	873.4	793.0	750.1	718.0	696.5	685.8
15°	1532.4	1312.7	1189.5	1109.1	1007.3	905.5	814.4	760.8	728.7	701.9	685.8
12.5°	1661.0	1382.4	1232.3	1141.3	1039.5	937.7	835.9	771.6	734.0	707.3	691.2
10°	1886.0	1478.8	1275.2	1162.7	1071.6	959.1	857.3	782.3	739.4	712.6	691.2
7.5°	2062.8	1559.2	1307.4	1184.1	1093.0	980.5	873.4	787.6	744.8	712.6	696.5
5°	2196.8	1612.8	1334.1	1194.8	1109.1	996.6	884.1	793.0	750.1	718.0	696.5
2.5°	2277.2	1661.0	1355.6	1205.6	1119.8	1007.3	894.8	798.3	750.1	718.0	696.5
0°	2304.0	1661.0	1355.6	1205.6	1119.8	1007.3	894.8	798.3	750.1	718.0	696.5





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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°	32.1	26.8	26.8	26.8	21.4	21.4	16.1	16.1	16.1	10.7	10.7
85°	64.3	58.9	53.6	48.2	42.9	42.9	37.5	32.1	26.8	21.4	16.1
82.5°	112.5	107.2	96.4	85.7	75.0	64.3	53.6	48.2	42.9	32.1	26.8
80°	155.4	144.7	139.3	123.2	112.5	96.4	85.7	69.7	53.6	48.2	37.5
77.5°	182.2	171.5	160.7	155.4	144.7	128.6	112.5	96.4	80.4	58.9	48.2
75°	209.0	198.2	187.5	176.8	166.1	150.0	139.3	123.2	101.8	80.4	53.6
72.5°	241.1	225.0	214.3	198.2	182.2	171.5	155.4	144.7	123.2	96.4	69.7
70°	273.3	257.2	235.8	219.7	203.6	187.5	171.5	155.4	139.3	112.5	85.7
67.5°	305.4	284.0	267.9	246.5	225.0	209.0	187.5	171.5	150.0	128.6	96.4
65°	337.6	316.1	294.7	273.3	246.5	225.0	203.6	182.2	166.1	144.7	112.5
62.5°	375.1	348.3	321.5	294.7	273.3	246.5	219.7	198.2	176.8	155.4	123.2
60°	412.6	380.4	348.3	321.5	294.7	267.9	235.8	214.3	187.5	160.7	139.3
57.5°	444.7	412.6	380.4	348.3	316.1	284.0	257.2	225.0	198.2	171.5	144.7
55°	482.2	444.7	412.6	375.1	337.6	305.4	273.3	241.1	209.0	182.2	155.4
52.5°	514.4	476.9	439.4	401.9	364.3	326.8	289.3	251.8	219.7	187.5	160.7
50°	541.2	509.0	466.1	428.6	385.8	342.9	305.4	267.9	230.4	198.2	166.1
47.5°	562.6	530.4	498.3	455.4	407.2	364.3	321.5	284.0	241.1	209.0	171.5
45°	584.0	551.9	519.7	476.9	428.6	385.8	337.6	294.7	251.8	214.3	176.8
42.5°	600.1	573.3	541.2	503.7	450.1	401.9	353.6	305.4	262.5	225.0	182.2
40°	616.2	589.4	557.2	519.7	471.5	423.3	369.7	321.5	273.3	230.4	192.9
37.5°	626.9	605.5	573.3	535.8	492.9	439.4	385.8	332.2	284.0	241.1	198.2
35°	637.6	616.2	584.0	551.9	509.0	455.4	401.9	342.9	294.7	246.5	203.6
32.5°	643.0	626.9	600.1	562.6	525.1	471.5	412.6	359.0	305.4	251.8	209.0
30°	648.3	632.2	610.8	573.3	535.8	487.6	428.6	364.3	310.8	262.5	214.3
27.5°	653.7	637.6	616.2	584.0	546.5	498.3	439.4	375.1	321.5	267.9	214.3
25°	659.0	643.0	626.9	594.7	557.2	509.0	450.1	385.8	326.8	273.3	219.7
22.5°	664.4	648.3	632.2	605.5	568.0	519.7	460.8	396.5	332.2	278.6	225.0
20°	669.8	653.7	637.6	610.8	573.3	525.1	466.1	401.9	342.9	284.0	230.4
17.5°	675.1	653.7	637.6	616.2	578.7	535.8	476.9	412.6	348.3	284.0	230.4
15°	675.1	659.0	643.0	621.5	584.0	541.2	482.2	417.9	348.3	289.3	235.8
12.5°	675.1	664.4	643.0	621.5	589.4	546.5	487.6	423.3	353.6	294.7	235.8
10°	680.5	664.4	643.0	626.9	594.7	551.9	492.9	428.6	359.0	294.7	235.8
7.5°	680.5	669.8	648.3	626.9	594.7	551.9	498.3	428.6	359.0	300.0	241.1
5°	680.5	669.8	648.3	632.2	600.1	557.2	503.7	434.0	364.3	300.0	241.1
2.5°	680.5	669.8	648.3	632.2	600.1	557.2	503.7	434.0	364.3	300.0	241.1
0°	680.5	669.8	648.3	632.2	600.1	557.2	503.7	434.0	364.3	300.0	241.1



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.4	5.4	0.0	0.0
85°	16.1	10.7	5.4	0.0
82.5°	21.4	16.1	5.4	0.0
80°	26.8	16.1	10.7	0.0
77.5°	32.1	21.4	10.7	0.0
75°	42.9	26.8	16.1	0.0
72.5°	48.2	32.1	16.1	0.0
70°	53.6	37.5	16.1	0.0
67.5°	64.3	42.9	21.4	0.0
65°	75.0	42.9	21.4	0.0
62.5°	85.7	48.2	26.8	0.0
60°	96.4	53.6	26.8	0.0
57.5°	107.2	58.9	26.8	0.0
55°	112.5	64.3	32.1	0.0
52.5°	123.2	69.7	32.1	0.0
50°	134.0	80.4	32.1	0.0
47.5°	139.3	85.7	37.5	0.0
45°	144.7	91.1	37.5	0.0
42.5°	150.0	96.4	37.5	0.0
40°	155.4	101.8	42.9	0.0
37.5°	155.4	101.8	42.9	0.0
35°	160.7	107.2	42.9	0.0
32.5°	166.1	112.5	42.9	0.0
30°	166.1	117.9	48.2	0.0
27.5°	171.5	117.9	48.2	0.0
25°	171.5	123.2	48.2	0.0
22.5°	176.8	128.6	48.2	0.0
20°	176.8	128.6	48.2	0.0
17.5°	182.2	134.0	53.6	0.0
15°	182.2	134.0	53.6	0.0
12.5°	182.2	134.0	53.6	0.0
10°	187.5	139.3	53.6	0.0
7.5°	187.5	139.3	53.6	0.0
5°	187.5	139.3	53.6	0.0
2.5°	187.5	139.3	53.6	0.0
0°	187.5	139.3	53.6	0.0

(END OF REPORT)