

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: P623218

Luminaire Tested: **IFLD-L-SA7D-830-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623218  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	40330.2 lumens	Max Intensity:	375279.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

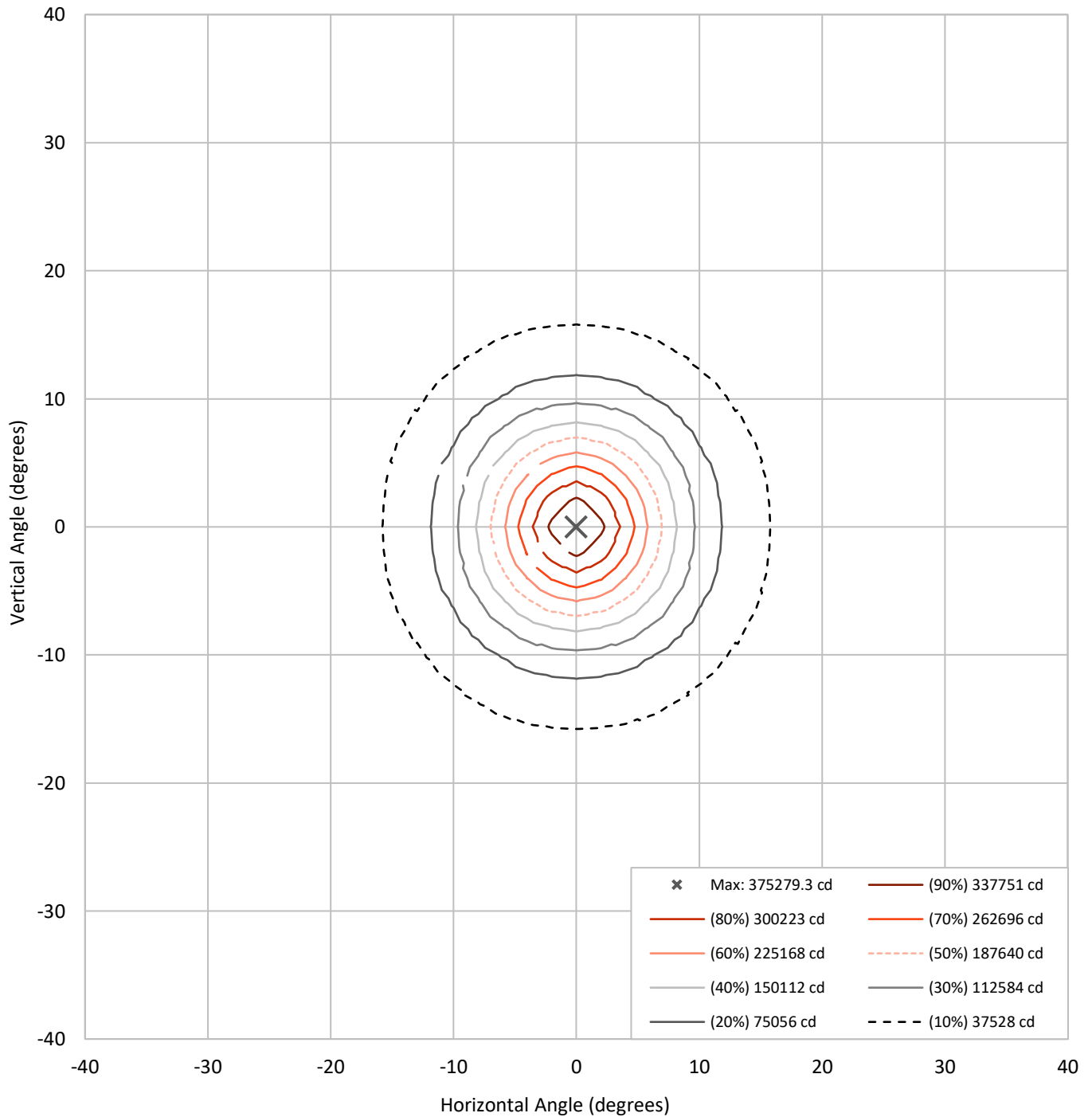
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	8819.1 lumens	Field Lumens:	20534.6 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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: 25 FT



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### Iso-Candela Plot





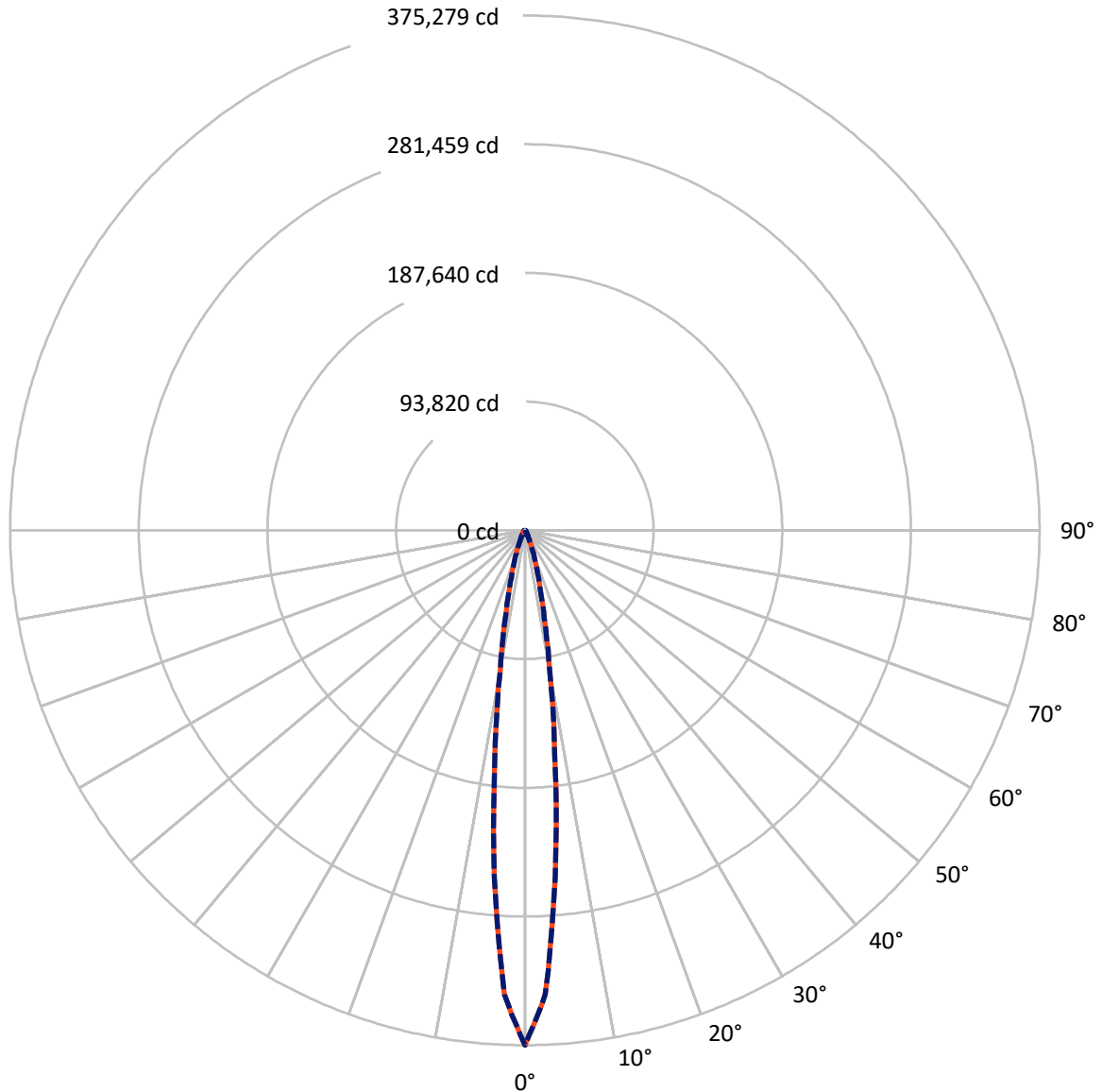
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### Lumen Table

90	0.7	5.2		13.8		22.5		26.2		22.5		13.8		5.2		0.7
80	0.7	5.2		13.8		22.5		26.2		22.5		13.8		5.2		0.7
70	2.4	2.6	5.6	9.3	13.2	16.6	19.2	20.5	20.5	19.2	16.6	13.2	9.3	5.6	2.6	2.4
60		4.1	8.6	14.0	19.3	24.0	27.6	29.6	29.6	27.6	24.0	19.3	14.0	8.6	4.1	
50	4.3	5.6	11.4	17.9	24.8	31.8	38.5	42.7	42.7	38.5	31.8	24.8	17.9	11.4	5.6	4.3
40		6.9	13.6	21.4	31.4	45.0	61.4	75.5	75.5	61.4	45.0	31.4	21.4	13.6	6.9	
30	5.8	7.8	15.3	24.9	40.7	71.8	146.7	251.0	251.0	146.7	71.8	40.7	24.9	15.3	7.8	5.8
20		8.5	16.5	28.3	52.3	138.3	497.3	1234.8	1234.8	497.3	138.3	52.3	28.3	16.5	8.5	
10	6.4	8.8	17.1	30.5	62.5	230.4	1203.2	5282.9	5282.9	1203.2	230.4	62.5	30.5	17.1	8.8	6.4
0		8.8	17.1	30.5	62.5	230.4	1203.2	5282.9	5282.9	1203.2	230.4	62.5	30.5	17.1	8.8	
-10	5.8	8.5	16.5	28.3	52.3	138.3	497.3	1234.8	1234.8	497.3	138.3	52.3	28.3	16.5	8.5	5.8
-20		7.8	15.3	24.9	40.7	71.8	146.7	251.0	251.0	146.7	71.8	40.7	24.9	15.3	7.8	
-30	4.3	6.9	13.6	21.4	31.4	45.0	61.4	75.5	75.5	61.4	45.0	31.4	21.4	13.6	6.9	4.3
-40		5.6	11.4	17.9	24.8	31.8	38.5	42.7	42.7	38.5	31.8	24.8	17.9	11.4	5.6	
-50	2.4	4.1	8.6	14.0	19.3	24.0	27.6	29.6	29.6	27.6	24.0	19.3	14.0	8.6	4.1	2.4
-60		2.6	5.6	9.3	13.2	16.6	19.2	20.5	20.5	19.2	16.6	13.2	9.3	5.6	2.6	
-70	0.7	5.2		13.8		22.5		26.2		22.5		13.8		5.2		0.7
-80		5.2		13.8		22.5		26.2		22.5		13.8		5.2		
-90	0.7	5.2		13.8		22.5		26.2		22.5		13.8		5.2		0.7

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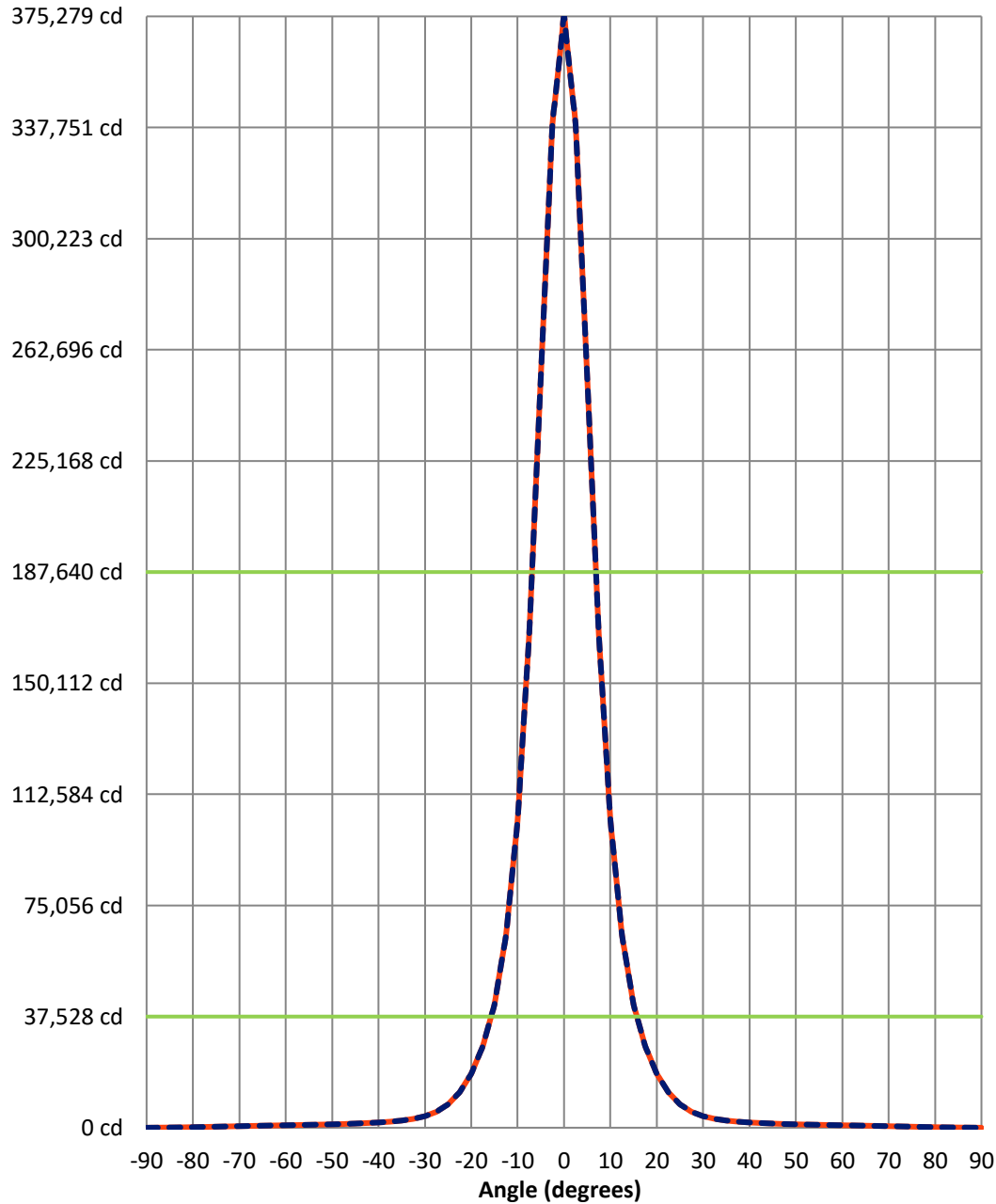
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 13.8°  
 V Angle: 13.8°  
 Lumens: 8819.1  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 20534.6  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 19795.7  
 Efficiency: 49.1%

— 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°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	29.4	29.4
85°	75.5	75.5	75.5	75.5	75.5	75.5	71.3	71.3	71.3	67.1	67.1
82.5°	125.9	125.9	125.9	125.9	121.7	121.7	121.7	117.5	117.5	113.3	113.3
80°	193.0	193.0	193.0	193.0	188.8	184.6	184.6	180.4	176.2	172.0	167.8
77.5°	264.3	264.3	264.3	260.1	260.1	255.9	251.7	247.5	243.4	235.0	230.8
75°	348.2	348.2	348.2	344.0	339.9	335.7	331.5	323.1	318.9	310.5	302.1
72.5°	436.4	436.4	436.4	432.2	428.0	419.6	415.4	407.0	398.6	386.0	377.6
70°	520.3	520.3	520.3	516.1	507.7	503.5	495.1	486.7	478.3	465.7	453.1
67.5°	604.2	604.2	604.2	595.8	591.6	587.4	579.0	566.4	558.0	545.4	528.7
65°	683.9	683.9	679.7	675.5	671.3	662.9	654.5	646.1	633.5	621.0	604.2
62.5°	763.6	763.6	759.4	755.2	751.0	742.6	730.1	721.7	704.9	692.3	675.5
60°	830.7	830.7	826.6	822.4	818.2	809.8	801.4	788.8	776.2	763.6	746.8
57.5°	902.1	902.1	897.9	893.7	885.3	876.9	868.5	855.9	839.1	822.4	809.8
55°	981.8	981.8	977.6	969.2	960.8	952.4	939.8	923.1	906.3	889.5	868.5
52.5°	1057.3	1057.3	1053.1	1044.7	1036.3	1027.9	1011.2	998.6	977.6	956.6	931.4
50°	1149.6	1149.6	1141.2	1132.8	1124.4	1107.7	1090.9	1069.9	1048.9	1023.7	1002.8
47.5°	1254.5	1254.5	1246.1	1237.7	1220.9	1204.2	1179.0	1153.8	1128.6	1099.3	1065.7
45°	1401.4	1401.4	1388.8	1372.0	1351.0	1321.6	1288.1	1254.5	1216.8	1183.2	1145.4
42.5°	1581.8	1581.8	1565.0	1544.0	1514.6	1476.9	1430.7	1384.6	1334.2	1279.7	1229.3
40°	1770.6	1770.6	1749.6	1728.6	1695.1	1648.9	1598.6	1539.8	1476.9	1405.6	1342.6
37.5°	2030.7	2030.7	2001.3	1963.6	1913.2	1850.3	1774.8	1707.6	1636.3	1556.6	1472.7
35°	2416.7	2416.7	2370.6	2307.6	2227.9	2123.0	2009.7	1913.2	1804.1	1707.6	1615.3
32.5°	2987.3	2987.3	2907.6	2815.3	2681.0	2513.2	2349.6	2194.3	2030.7	1892.3	1758.0
30°	3885.2	3885.2	3750.9	3583.1	3356.6	3067.0	2823.7	2572.0	2332.8	2131.4	1946.8
27.5°	5378.9	5315.9	5131.3	4825.0	4405.5	3885.2	3511.8	3088.0	2752.4	2425.1	2186.0
25°	7896.3	7778.8	7430.6	6855.8	6079.6	5219.4	4539.7	3818.1	3306.2	2840.5	2467.1
22.5°	11987.1	11773.1	11135.4	10094.8	8689.3	7313.1	6058.6	4946.7	4032.1	3381.7	2840.5
20°	18213.5	17840.1	16740.8	14961.8	12561.9	10434.7	8198.4	6549.5	5085.2	4032.1	3306.2
17.5°	27569.9	26923.7	25031.5	21981.2	18213.5	14747.9	11341.0	8626.3	6549.5	4946.7	3818.1
15°	41566.7	40433.9	37127.7	31870.5	25832.9	20336.5	15498.9	11341.0	8198.4	6058.6	4539.7
12.5°	65066.8	62775.9	56155.1	45829.5	36204.6	27171.3	20336.5	14747.9	10434.7	7313.1	5219.4
10°	103893.7	99160.9	85738.9	65423.4	49970.7	36204.6	25832.9	18213.5	12561.9	8689.3	6079.6
7.5°	166829.0	156671.3	128916.8	94709.3	65423.4	45829.5	31870.5	21981.2	14961.8	10094.8	6855.8
5°	253633.7	233192.3	181879.0	128916.8	85738.9	56155.1	37127.7	25031.5	16740.8	11135.4	7430.6
2.5°	338739.1	303507.8	233192.3	156671.3	99160.9	62775.9	40433.9	26923.7	17840.1	11773.1	7778.8
0°	375279.3	338739.1	253633.7	166829.0	103893.7	65066.8	41566.7	27569.9	18213.5	11987.1	7896.3



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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°	29.4	29.4	29.4	29.4	25.2	25.2	25.2	25.2	21.0	21.0	21.0
85°	67.1	62.9	62.9	58.7	58.7	54.5	54.5	50.3	50.3	46.2	42.0
82.5°	109.1	104.9	100.7	96.5	96.5	92.3	88.1	79.7	75.5	71.3	67.1
80°	163.6	155.2	151.0	142.7	138.5	130.1	121.7	117.5	109.1	104.9	96.5
77.5°	222.4	214.0	209.8	197.2	188.8	180.4	172.0	159.4	151.0	138.5	125.9
75°	289.5	281.1	268.5	255.9	247.5	235.0	222.4	209.8	193.0	180.4	167.8
72.5°	365.0	352.4	339.9	323.1	306.3	293.7	272.7	255.9	243.4	226.6	209.8
70°	440.5	428.0	411.2	394.4	373.4	356.6	335.7	314.7	293.7	272.7	251.7
67.5°	516.1	499.3	482.5	461.5	440.5	419.6	398.6	373.4	348.2	323.1	297.9
65°	587.4	570.6	549.6	528.7	507.7	482.5	457.3	432.2	402.8	373.4	348.2
62.5°	658.7	637.7	616.8	595.8	570.6	545.4	520.3	486.7	457.3	428.0	394.4
60°	725.9	704.9	683.9	658.7	633.5	604.2	574.8	545.4	511.9	478.3	444.7
57.5°	788.8	767.8	746.8	717.5	692.3	662.9	629.4	600.0	562.2	528.7	490.9
55°	847.5	826.6	801.4	776.2	751.0	717.5	683.9	650.3	612.6	574.8	532.9
52.5°	906.3	881.1	855.9	830.7	801.4	772.0	738.4	700.7	662.9	621.0	579.0
50°	973.4	944.0	910.5	881.1	847.5	818.2	784.6	746.8	709.1	662.9	621.0
47.5°	1036.3	1007.0	973.4	935.6	902.1	864.3	826.6	793.0	751.0	709.1	662.9
45°	1107.7	1065.7	1032.1	994.4	952.4	910.5	872.7	830.7	793.0	746.8	700.7
42.5°	1183.2	1137.0	1090.9	1044.7	1007.0	960.8	914.7	872.7	826.6	784.6	738.4
40°	1271.3	1216.8	1158.0	1107.7	1057.3	1011.2	960.8	910.5	864.3	818.2	772.0
37.5°	1384.6	1309.1	1233.5	1170.6	1111.9	1057.3	1007.0	952.4	902.1	847.5	801.4
35°	1518.8	1413.9	1325.8	1237.7	1170.6	1107.7	1044.7	994.4	935.6	881.1	830.7
32.5°	1653.1	1539.8	1426.5	1325.8	1233.5	1158.0	1090.9	1032.1	973.4	910.5	855.9
30°	1791.6	1665.7	1539.8	1413.9	1309.1	1216.8	1137.0	1065.7	1007.0	944.0	881.1
27.5°	1967.8	1791.6	1653.1	1518.8	1384.6	1271.3	1183.2	1107.7	1036.3	973.4	906.3
25°	2186.0	1946.8	1758.0	1615.3	1472.7	1342.6	1229.3	1145.4	1065.7	1002.8	931.4
22.5°	2425.1	2131.4	1892.3	1707.6	1556.6	1405.6	1279.7	1183.2	1099.3	1023.7	956.6
20°	2752.4	2332.8	2030.7	1804.1	1636.3	1476.9	1334.2	1216.8	1128.6	1048.9	977.6
17.5°	3088.0	2572.0	2194.3	1913.2	1707.6	1539.8	1384.6	1254.5	1153.8	1069.9	998.6
15°	3511.8	2823.7	2349.6	2009.7	1774.8	1598.6	1430.7	1288.1	1179.0	1090.9	1011.2
12.5°	3885.2	3067.0	2513.2	2123.0	1850.3	1648.9	1476.9	1321.6	1204.2	1107.7	1027.9
10°	4405.5	3356.6	2681.0	2227.9	1913.2	1695.1	1514.6	1351.0	1220.9	1124.4	1036.3
7.5°	4825.0	3583.1	2815.3	2307.6	1963.6	1728.6	1544.0	1372.0	1237.7	1132.8	1044.7
5°	5131.3	3750.9	2907.6	2370.6	2001.3	1749.6	1565.0	1388.8	1246.1	1141.2	1053.1
2.5°	5315.9	3885.2	2987.3	2416.7	2030.7	1770.6	1581.8	1401.4	1254.5	1149.6	1057.3
0°	5378.9	3885.2	2987.3	2416.7	2030.7	1770.6	1581.8	1401.4	1254.5	1149.6	1057.3





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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°	21.0	16.8	16.8	16.8	12.6	12.6	12.6	8.4	8.4	8.4	4.2
85°	37.8	37.8	33.6	29.4	29.4	25.2	21.0	21.0	16.8	12.6	12.6
82.5°	62.9	58.7	54.5	50.3	46.2	37.8	33.6	29.4	25.2	21.0	16.8
80°	88.1	83.9	75.5	67.1	62.9	54.5	50.3	42.0	33.6	29.4	25.2
77.5°	117.5	109.1	100.7	92.3	79.7	71.3	62.9	54.5	46.2	37.8	29.4
75°	155.2	138.5	125.9	113.3	100.7	88.1	75.5	67.1	54.5	46.2	33.6
72.5°	193.0	176.2	155.2	138.5	121.7	109.1	92.3	79.7	67.1	54.5	42.0
70°	230.8	209.8	188.8	167.8	146.8	125.9	109.1	92.3	75.5	62.9	50.3
67.5°	268.5	247.5	222.4	197.2	176.2	151.0	125.9	109.1	88.1	71.3	54.5
65°	314.7	285.3	255.9	230.8	201.4	176.2	146.8	121.7	100.7	79.7	62.9
62.5°	360.8	327.3	293.7	260.1	230.8	197.2	167.8	138.5	113.3	92.3	67.1
60°	407.0	369.2	331.5	293.7	255.9	222.4	188.8	155.2	125.9	100.7	75.5
57.5°	453.1	411.2	369.2	327.3	285.3	247.5	209.8	176.2	138.5	109.1	83.9
55°	495.1	453.1	407.0	360.8	314.7	268.5	230.8	193.0	155.2	117.5	88.1
52.5°	532.9	490.9	444.7	394.4	348.2	297.9	251.7	209.8	167.8	125.9	96.5
50°	574.8	528.7	478.3	428.0	373.4	323.1	272.7	226.6	180.4	138.5	104.9
47.5°	612.6	562.2	511.9	457.3	402.8	348.2	293.7	243.4	193.0	151.0	109.1
45°	650.3	600.0	545.4	486.7	432.2	373.4	314.7	255.9	209.8	159.4	117.5
42.5°	683.9	629.4	574.8	520.3	457.3	398.6	335.7	272.7	222.4	172.0	121.7
40°	717.5	662.9	604.2	545.4	482.5	419.6	356.6	293.7	235.0	180.4	130.1
37.5°	751.0	692.3	633.5	570.6	507.7	440.5	373.4	306.3	247.5	188.8	138.5
35°	776.2	717.5	658.7	595.8	528.7	461.5	394.4	323.1	255.9	197.2	142.7
32.5°	801.4	746.8	683.9	616.8	549.6	482.5	411.2	339.9	268.5	209.8	151.0
30°	826.6	767.8	704.9	637.7	570.6	499.3	428.0	352.4	281.1	214.0	155.2
27.5°	847.5	788.8	725.9	658.7	587.4	516.1	440.5	365.0	289.5	222.4	163.6
25°	868.5	809.8	746.8	675.5	604.2	528.7	453.1	377.6	302.1	230.8	167.8
22.5°	889.5	822.4	763.6	692.3	621.0	545.4	465.7	386.0	310.5	235.0	172.0
20°	906.3	839.1	776.2	704.9	633.5	558.0	478.3	398.6	318.9	243.4	176.2
17.5°	923.1	855.9	788.8	721.7	646.1	566.4	486.7	407.0	323.1	247.5	180.4
15°	939.8	868.5	801.4	730.1	654.5	579.0	495.1	415.4	331.5	251.7	184.6
12.5°	952.4	876.9	809.8	742.6	662.9	587.4	503.5	419.6	335.7	255.9	184.6
10°	960.8	885.3	818.2	751.0	671.3	591.6	507.7	428.0	339.9	260.1	188.8
7.5°	969.2	893.7	822.4	755.2	675.5	595.8	516.1	432.2	344.0	260.1	193.0
5°	977.6	897.9	826.6	759.4	679.7	604.2	520.3	436.4	348.2	264.3	193.0
2.5°	981.8	902.1	830.7	763.6	683.9	604.2	520.3	436.4	348.2	264.3	193.0
0°	981.8	902.1	830.7	763.6	683.9	604.2	520.3	436.4	348.2	264.3	193.0



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	0.0	0.0
85°	8.4	4.2	4.2	0.0
82.5°	12.6	8.4	4.2	0.0
80°	16.8	12.6	4.2	0.0
77.5°	21.0	12.6	8.4	0.0
75°	25.2	16.8	8.4	0.0
72.5°	29.4	21.0	8.4	0.0
70°	33.6	21.0	12.6	0.0
67.5°	37.8	25.2	12.6	0.0
65°	46.2	29.4	12.6	0.0
62.5°	50.3	29.4	16.8	0.0
60°	54.5	33.6	16.8	0.0
57.5°	58.7	37.8	16.8	0.0
55°	62.9	37.8	21.0	0.0
52.5°	67.1	42.0	21.0	0.0
50°	71.3	46.2	21.0	0.0
47.5°	75.5	50.3	21.0	0.0
45°	79.7	50.3	25.2	0.0
42.5°	88.1	54.5	25.2	0.0
40°	92.3	54.5	25.2	0.0
37.5°	96.5	58.7	25.2	0.0
35°	96.5	58.7	29.4	0.0
32.5°	100.7	62.9	29.4	0.0
30°	104.9	62.9	29.4	0.0
27.5°	109.1	67.1	29.4	0.0
25°	113.3	67.1	29.4	0.0
22.5°	113.3	67.1	29.4	0.0
20°	117.5	71.3	33.6	0.0
17.5°	117.5	71.3	33.6	0.0
15°	121.7	71.3	33.6	0.0
12.5°	121.7	75.5	33.6	0.0
10°	121.7	75.5	33.6	0.0
7.5°	125.9	75.5	33.6	0.0
5°	125.9	75.5	33.6	0.0
2.5°	125.9	75.5	33.6	0.0
0°	125.9	75.5	33.6	0.0

(END OF REPORT)