

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: P623045

Luminaire Tested: **IFLD-L-SA7E-730-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623045  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-730-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	53487.4 lumens	Max Intensity:	497708.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	100.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

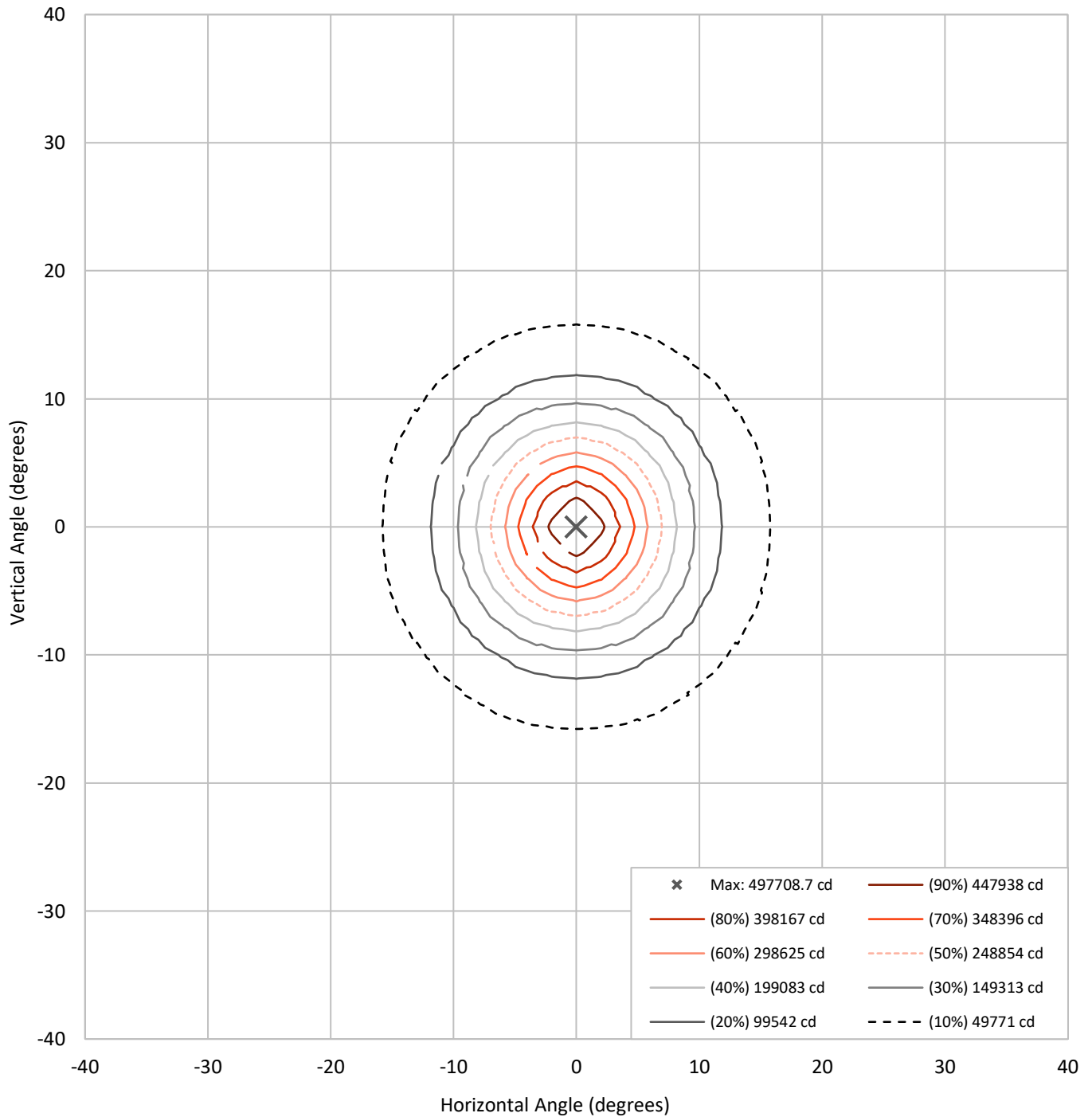
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	11696.2 lumens	Field Lumens:	27233.7 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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: 25 FT



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### Iso-Candela Plot





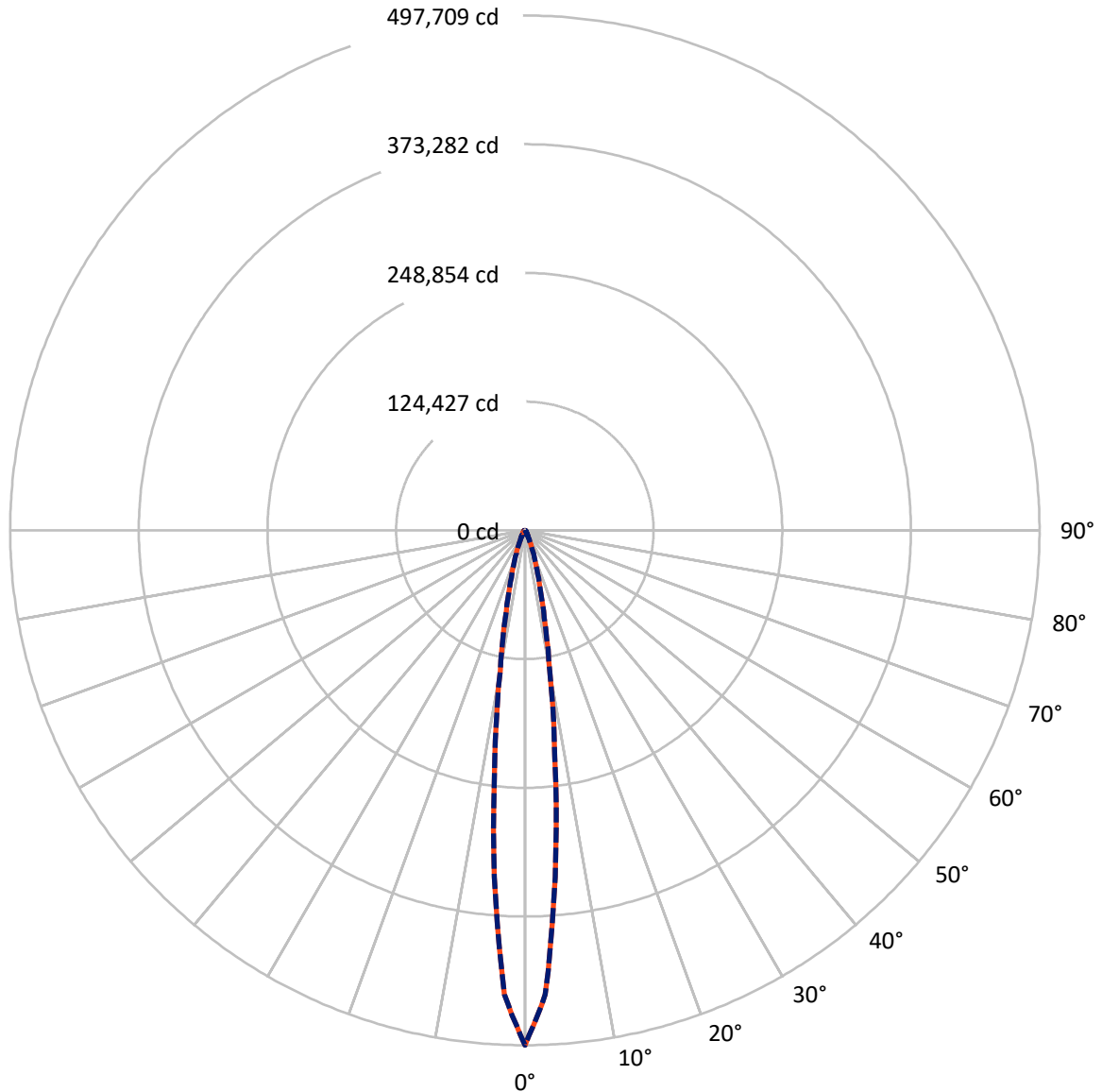
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### Lumen Table

90	0.9	6.9		18.4		29.9		34.7		29.9		18.4		6.9		0.9
80	0.9	6.9		18.4		29.9		34.7		29.9		18.4		6.9		0.9
70	3.2	3.5	7.4	12.3	17.4	22.0	25.4	27.2	27.2	25.4	22.0	17.4	12.3	7.4	3.5	3.2
60		5.5	11.5	18.5	25.6	31.8	36.6	39.2	39.2	36.6	31.8	25.6	18.5	11.5	5.5	
50	5.7	7.4	15.1	23.8	32.9	42.2	51.0	56.6	56.6	51.0	42.2	32.9	23.8	15.1	7.4	5.7
40		9.1	18.0	28.4	41.6	59.6	81.5	100.1	100.1	81.5	59.6	41.6	28.4	18.0	9.1	
30	7.7	10.4	20.2	33.0	54.0	95.3	194.5	332.8	332.8	194.5	95.3	54.0	33.0	20.2	10.4	7.7
20		11.3	21.9	37.5	69.4	183.4	659.5	1637.7	1637.7	659.5	183.4	69.4	37.5	21.9	11.3	
10	8.4	11.7	22.7	40.4	82.9	305.5	1595.7	7006.4	7006.4	1595.7	305.5	82.9	40.4	22.7	11.7	8.4
0		11.7	22.7	40.4	82.9	305.5	1595.7	7006.4	7006.4	1595.7	305.5	82.9	40.4	22.7	11.7	
-10	7.7	11.3	21.9	37.5	69.4	183.4	659.5	1637.7	1637.7	659.5	183.4	69.4	37.5	21.9	11.3	7.7
-20		10.4	20.2	33.0	54.0	95.3	194.5	332.8	332.8	194.5	95.3	54.0	33.0	20.2	10.4	
-30	5.7	9.1	18.0	28.4	41.6	59.6	81.5	100.1	100.1	81.5	59.6	41.6	28.4	18.0	9.1	5.7
-40		7.4	15.1	23.8	32.9	42.2	51.0	56.6	56.6	51.0	42.2	32.9	23.8	15.1	7.4	
-50	3.2	5.5	11.5	18.5	25.6	31.8	36.6	39.2	39.2	36.6	31.8	25.6	18.5	11.5	5.5	3.2
-60		3.5	7.4	12.3	17.4	22.0	25.4	27.2	27.2	25.4	22.0	17.4	12.3	7.4	3.5	
-70	0.9	6.9		18.4		29.9		34.7		29.9		18.4		6.9		0.9
-80		6.9		18.4		29.9		34.7		29.9		18.4		6.9		
-90	0.9	6.9		18.4		29.9		34.7		29.9		18.4		6.9		0.9

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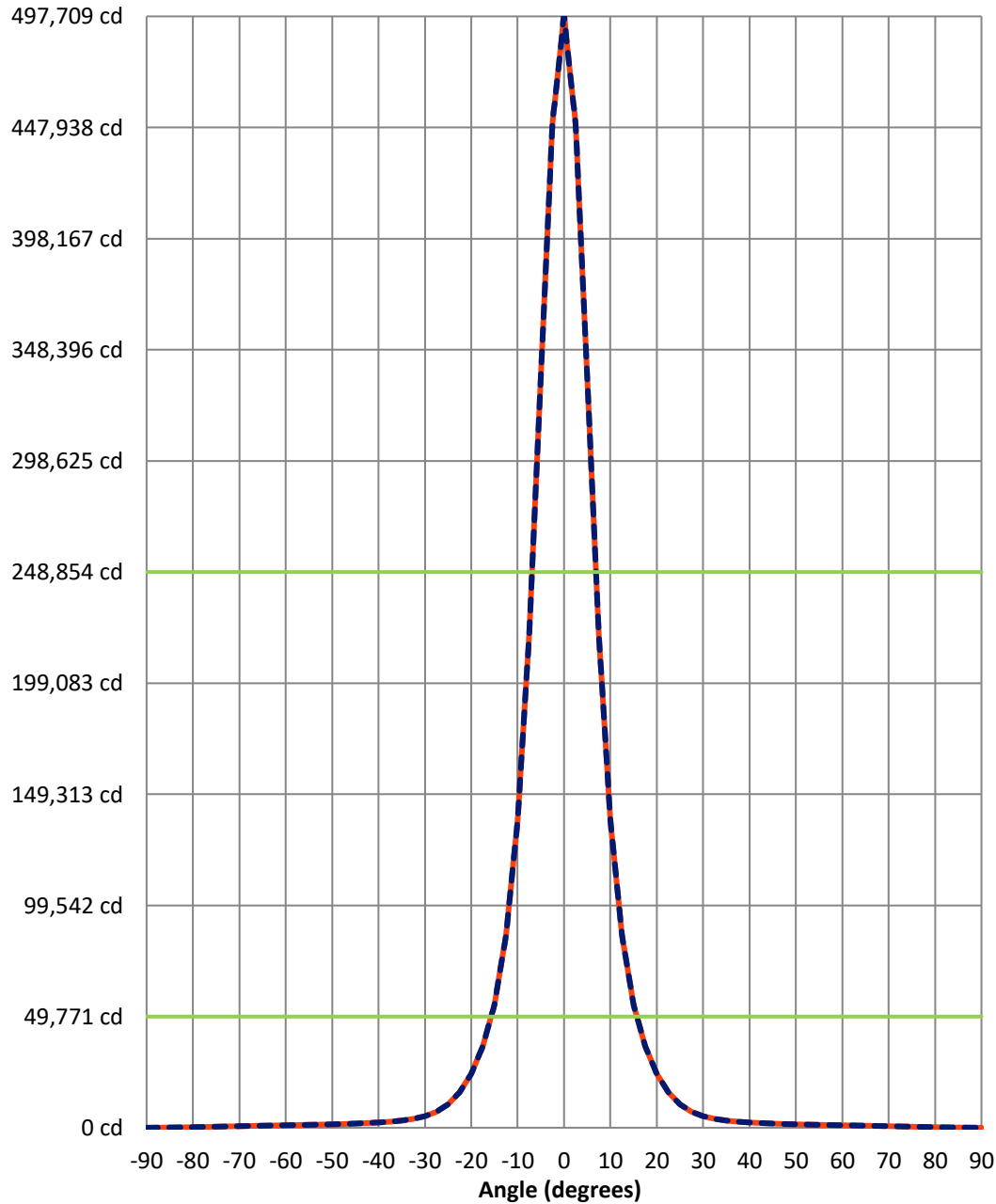
### Luminous Intensity Polar Plot



— 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: 11696.2  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 27233.7  
Efficiency: 50.9%

**Spill:**  
Lumens: 26253.7  
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°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	39.0	39.0
85°	100.2	100.2	100.2	100.2	100.2	100.2	94.6	94.6	94.6	89.0	89.0
82.5°	166.9	166.9	166.9	166.9	161.4	161.4	161.4	155.8	155.8	150.2	150.2
80°	256.0	256.0	256.0	256.0	250.4	244.8	244.8	239.3	233.7	228.1	222.6
77.5°	350.6	350.6	350.6	345.0	345.0	339.4	333.9	328.3	322.7	311.6	306.0
75°	461.9	461.9	461.9	456.3	450.7	445.2	439.6	428.5	422.9	411.8	400.6
72.5°	578.7	578.7	578.7	573.1	567.6	556.4	550.9	539.8	528.6	511.9	500.8
70°	690.0	690.0	690.0	684.4	673.3	667.7	656.6	645.5	634.3	617.7	601.0
67.5°	801.3	801.3	801.3	790.2	784.6	779.0	767.9	751.2	740.1	723.4	701.1
65°	907.0	907.0	901.4	895.9	890.3	879.2	868.1	856.9	840.2	823.5	801.3
62.5°	1012.7	1012.7	1007.2	1001.6	996.0	984.9	968.2	957.1	934.8	918.1	895.9
60°	1101.8	1101.8	1096.2	1090.6	1085.1	1073.9	1062.8	1046.1	1029.4	1012.7	990.5
57.5°	1196.4	1196.4	1190.8	1185.2	1174.1	1163.0	1151.8	1135.2	1112.9	1090.6	1073.9
55°	1302.1	1302.1	1296.5	1285.4	1274.3	1263.1	1246.4	1224.2	1201.9	1179.7	1151.8
52.5°	1402.2	1402.2	1396.7	1385.6	1374.4	1363.3	1341.0	1324.3	1296.5	1268.7	1235.3
50°	1524.7	1524.7	1513.5	1502.4	1491.3	1469.0	1446.8	1418.9	1391.1	1357.7	1329.9
47.5°	1663.8	1663.8	1652.6	1641.5	1619.3	1597.0	1563.6	1530.2	1496.8	1457.9	1413.4
45°	1858.5	1858.5	1841.8	1819.6	1791.8	1752.8	1708.3	1663.8	1613.7	1569.2	1519.1
42.5°	2097.8	2097.8	2075.5	2047.7	2008.8	1958.7	1897.5	1836.3	1769.5	1697.2	1630.4
40°	2348.2	2348.2	2320.4	2292.6	2248.0	2186.8	2120.1	2042.2	1958.7	1864.1	1780.6
37.5°	2693.2	2693.2	2654.3	2604.2	2537.4	2453.9	2353.8	2264.7	2170.1	2064.4	1953.1
35°	3205.1	3205.1	3143.9	3060.5	2954.7	2815.6	2665.4	2537.4	2392.7	2264.7	2142.3
32.5°	3961.9	3961.9	3856.2	3733.8	3555.7	3333.1	3116.1	2910.2	2693.2	2509.6	2331.5
30°	5152.7	5152.7	4974.6	4752.1	4451.6	4067.6	3744.9	3411.0	3093.8	2826.8	2581.9
27.5°	7133.7	7050.2	6805.3	6399.1	5842.7	5152.7	4657.5	4095.5	3650.3	3216.3	2899.1
25°	10472.3	10316.5	9854.7	9092.3	8062.9	6922.2	6020.8	5063.7	4384.8	3767.1	3271.9
22.5°	15897.7	15613.9	14768.1	13388.1	11524.0	9698.9	8035.1	6560.5	5347.5	4485.0	3767.1
20°	24155.4	23660.1	22202.2	19842.9	16660.0	13838.8	10873.0	8686.1	6744.1	5347.5	4384.8
17.5°	36564.1	35707.2	33197.6	29152.3	24155.4	19559.1	15040.8	11440.6	8686.1	6560.5	5063.7
15°	55127.2	53624.8	49240.0	42267.7	34260.5	26971.0	20555.2	15040.8	10873.0	8035.1	6020.8
12.5°	86293.8	83255.6	74474.9	60780.7	48015.8	36035.5	26971.0	19559.1	13838.8	9698.9	6922.2
10°	137787.5	131510.7	113710.0	86766.8	66272.9	48015.8	34260.5	24155.4	16660.0	11524.0	8062.9
7.5°	221254.5	207783.0	170974.0	125606.8	86766.8	60780.7	42267.7	29152.3	19842.9	13388.1	9092.3
5°	336377.9	309267.8	241214.3	170974.0	113710.0	74474.9	49240.0	33197.6	22202.2	14768.1	9854.7
2.5°	449247.7	402522.8	309267.8	207783.0	131510.7	83255.6	53624.8	35707.2	23660.1	15613.9	10316.5
0°	497708.7	449247.7	336377.9	221254.5	137787.5	86293.8	55127.2	36564.1	24155.4	15897.7	10472.3



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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°	39.0	39.0	39.0	39.0	33.4	33.4	33.4	33.4	27.8	27.8	27.8
85°	89.0	83.5	83.5	77.9	77.9	72.3	72.3	66.8	66.8	61.2	55.6
82.5°	144.7	139.1	133.5	128.0	128.0	122.4	116.9	105.7	100.2	94.6	89.0
80°	217.0	205.9	200.3	189.2	183.6	172.5	161.4	155.8	144.7	139.1	128.0
77.5°	294.9	283.8	278.2	261.5	250.4	239.3	228.1	211.4	200.3	183.6	166.9
75°	383.9	372.8	356.1	339.4	328.3	311.6	294.9	278.2	256.0	239.3	222.6
72.5°	484.1	467.4	450.7	428.5	406.2	389.5	361.7	339.4	322.7	300.5	278.2
70°	584.3	567.6	545.3	523.1	495.2	473.0	445.2	417.3	389.5	361.7	333.9
67.5°	684.4	662.2	639.9	612.1	584.3	556.4	528.6	495.2	461.9	428.5	395.1
65°	779.0	756.8	728.9	701.1	673.3	639.9	606.5	573.1	534.2	495.2	461.9
62.5°	873.6	845.8	818.0	790.2	756.8	723.4	690.0	645.5	606.5	567.6	523.1
60°	962.7	934.8	907.0	873.6	840.2	801.3	762.3	723.4	678.9	634.3	589.8
57.5°	1046.1	1018.3	990.5	951.5	918.1	879.2	834.7	795.7	745.6	701.1	651.0
55°	1124.0	1096.2	1062.8	1029.4	996.0	951.5	907.0	862.5	812.4	762.3	706.7
52.5°	1201.9	1168.5	1135.2	1101.8	1062.8	1023.9	979.3	929.3	879.2	823.5	767.9
50°	1291.0	1252.0	1207.5	1168.5	1124.0	1085.1	1040.6	990.5	940.4	879.2	823.5
47.5°	1374.4	1335.5	1291.0	1240.9	1196.4	1146.3	1096.2	1051.7	996.0	940.4	879.2
45°	1469.0	1413.4	1368.9	1318.8	1263.1	1207.5	1157.4	1101.8	1051.7	990.5	929.3
42.5°	1569.2	1508.0	1446.8	1385.6	1335.5	1274.3	1213.1	1157.4	1096.2	1040.6	979.3
40°	1686.0	1613.7	1535.8	1469.0	1402.2	1341.0	1274.3	1207.5	1146.3	1085.1	1023.9
37.5°	1836.3	1736.1	1636.0	1552.5	1474.6	1402.2	1335.5	1263.1	1196.4	1124.0	1062.8
35°	2014.3	1875.2	1758.4	1641.5	1552.5	1469.0	1385.6	1318.8	1240.9	1168.5	1101.8
32.5°	2192.4	2042.2	1891.9	1758.4	1636.0	1535.8	1446.8	1368.9	1291.0	1207.5	1135.2
30°	2376.0	2209.1	2042.2	1875.2	1736.1	1613.7	1508.0	1413.4	1335.5	1252.0	1168.5
27.5°	2609.7	2376.0	2192.4	2014.3	1836.3	1686.0	1569.2	1469.0	1374.4	1291.0	1201.9
25°	2899.1	2581.9	2331.5	2142.3	1953.1	1780.6	1630.4	1519.1	1413.4	1329.9	1235.3
22.5°	3216.3	2826.8	2509.6	2264.7	2064.4	1864.1	1697.2	1569.2	1457.9	1357.7	1268.7
20°	3650.3	3093.8	2693.2	2392.7	2170.1	1958.7	1769.5	1613.7	1496.8	1391.1	1296.5
17.5°	4095.5	3411.0	2910.2	2537.4	2264.7	2042.2	1836.3	1663.8	1530.2	1418.9	1324.3
15°	4657.5	3744.9	3116.1	2665.4	2353.8	2120.1	1897.5	1708.3	1563.6	1446.8	1341.0
12.5°	5152.7	4067.6	3333.1	2815.6	2453.9	2186.8	1958.7	1752.8	1597.0	1469.0	1363.3
10°	5842.7	4451.6	3555.7	2954.7	2537.4	2248.0	2008.8	1791.8	1619.3	1491.3	1374.4
7.5°	6399.1	4752.1	3733.8	3060.5	2604.2	2292.6	2047.7	1819.6	1641.5	1502.4	1385.6
5°	6805.3	4974.6	3856.2	3143.9	2654.3	2320.4	2075.5	1841.8	1652.6	1513.5	1396.7
2.5°	7050.2	5152.7	3961.9	3205.1	2693.2	2348.2	2097.8	1858.5	1663.8	1524.7	1402.2
0°	7133.7	5152.7	3961.9	3205.1	2693.2	2348.2	2097.8	1858.5	1663.8	1524.7	1402.2





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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°	27.8	22.3	22.3	22.3	16.7	16.7	16.7	11.1	11.1	11.1	5.6
85°	50.1	50.1	44.5	39.0	39.0	33.4	27.8	27.8	22.3	16.7	16.7
82.5°	83.5	77.9	72.3	66.8	61.2	50.1	44.5	39.0	33.4	27.8	22.3
80°	116.9	111.3	100.2	89.0	83.5	72.3	66.8	55.6	44.5	39.0	33.4
77.5°	155.8	144.7	133.5	122.4	105.7	94.6	83.5	72.3	61.2	50.1	39.0
75°	205.9	183.6	166.9	150.2	133.5	116.9	100.2	89.0	72.3	61.2	44.5
72.5°	256.0	233.7	205.9	183.6	161.4	144.7	122.4	105.7	89.0	72.3	55.6
70°	306.0	278.2	250.4	222.6	194.8	166.9	144.7	122.4	100.2	83.5	66.8
67.5°	356.1	328.3	294.9	261.5	233.7	200.3	166.9	144.7	116.9	94.6	72.3
65°	417.3	378.4	339.4	306.0	267.1	233.7	194.8	161.4	133.5	105.7	83.5
62.5°	478.5	434.0	389.5	345.0	306.0	261.5	222.6	183.6	150.2	122.4	89.0
60°	539.8	489.7	439.6	389.5	339.4	294.9	250.4	205.9	166.9	133.5	100.2
57.5°	601.0	545.3	489.7	434.0	378.4	328.3	278.2	233.7	183.6	144.7	111.3
55°	656.6	601.0	539.8	478.5	417.3	356.1	306.0	256.0	205.9	155.8	116.9
52.5°	706.7	651.0	589.8	523.1	461.9	395.1	333.9	278.2	222.6	166.9	128.0
50°	762.3	701.1	634.3	567.6	495.2	428.5	361.7	300.5	239.3	183.6	139.1
47.5°	812.4	745.6	678.9	606.5	534.2	461.9	389.5	322.7	256.0	200.3	144.7
45°	862.5	795.7	723.4	645.5	573.1	495.2	417.3	339.4	278.2	211.4	155.8
42.5°	907.0	834.7	762.3	690.0	606.5	528.6	445.2	361.7	294.9	228.1	161.4
40°	951.5	879.2	801.3	723.4	639.9	556.4	473.0	389.5	311.6	239.3	172.5
37.5°	996.0	918.1	840.2	756.8	673.3	584.3	495.2	406.2	328.3	250.4	183.6
35°	1029.4	951.5	873.6	790.2	701.1	612.1	523.1	428.5	339.4	261.5	189.2
32.5°	1062.8	990.5	907.0	818.0	728.9	639.9	545.3	450.7	356.1	278.2	200.3
30°	1096.2	1018.3	934.8	845.8	756.8	662.2	567.6	467.4	372.8	283.8	205.9
27.5°	1124.0	1046.1	962.7	873.6	779.0	684.4	584.3	484.1	383.9	294.9	217.0
25°	1151.8	1073.9	990.5	895.9	801.3	701.1	601.0	500.8	400.6	306.0	222.6
22.5°	1179.7	1090.6	1012.7	918.1	823.5	723.4	617.7	511.9	411.8	311.6	228.1
20°	1201.9	1112.9	1029.4	934.8	840.2	740.1	634.3	528.6	422.9	322.7	233.7
17.5°	1224.2	1135.2	1046.1	957.1	856.9	751.2	645.5	539.8	428.5	328.3	239.3
15°	1246.4	1151.8	1062.8	968.2	868.1	767.9	656.6	550.9	439.6	333.9	244.8
12.5°	1263.1	1163.0	1073.9	984.9	879.2	779.0	667.7	556.4	445.2	339.4	244.8
10°	1274.3	1174.1	1085.1	996.0	890.3	784.6	673.3	567.6	450.7	345.0	250.4
7.5°	1285.4	1185.2	1090.6	1001.6	895.9	790.2	684.4	573.1	456.3	345.0	256.0
5°	1296.5	1190.8	1096.2	1007.2	901.4	801.3	690.0	578.7	461.9	350.6	256.0
2.5°	1302.1	1196.4	1101.8	1012.7	907.0	801.3	690.0	578.7	461.9	350.6	256.0
0°	1302.1	1196.4	1101.8	1012.7	907.0	801.3	690.0	578.7	461.9	350.6	256.0



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	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.6	5.6	0.0	0.0
85°	11.1	5.6	5.6	0.0
82.5°	16.7	11.1	5.6	0.0
80°	22.3	16.7	5.6	0.0
77.5°	27.8	16.7	11.1	0.0
75°	33.4	22.3	11.1	0.0
72.5°	39.0	27.8	11.1	0.0
70°	44.5	27.8	16.7	0.0
67.5°	50.1	33.4	16.7	0.0
65°	61.2	39.0	16.7	0.0
62.5°	66.8	39.0	22.3	0.0
60°	72.3	44.5	22.3	0.0
57.5°	77.9	50.1	22.3	0.0
55°	83.5	50.1	27.8	0.0
52.5°	89.0	55.6	27.8	0.0
50°	94.6	61.2	27.8	0.0
47.5°	100.2	66.8	27.8	0.0
45°	105.7	66.8	33.4	0.0
42.5°	116.9	72.3	33.4	0.0
40°	122.4	72.3	33.4	0.0
37.5°	128.0	77.9	33.4	0.0
35°	128.0	77.9	39.0	0.0
32.5°	133.5	83.5	39.0	0.0
30°	139.1	83.5	39.0	0.0
27.5°	144.7	89.0	39.0	0.0
25°	150.2	89.0	39.0	0.0
22.5°	150.2	89.0	39.0	0.0
20°	155.8	94.6	44.5	0.0
17.5°	155.8	94.6	44.5	0.0
15°	161.4	94.6	44.5	0.0
12.5°	161.4	100.2	44.5	0.0
10°	161.4	100.2	44.5	0.0
7.5°	166.9	100.2	44.5	0.0
5°	166.9	100.2	44.5	0.0
2.5°	166.9	100.2	44.5	0.0
0°	166.9	100.2	44.5	0.0

(END OF REPORT)