

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: P623606

Luminaire Tested: **IFLD-L-SA8C-727-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623606
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	44178.5 lumens	Max Intensity:	53987.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	105.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

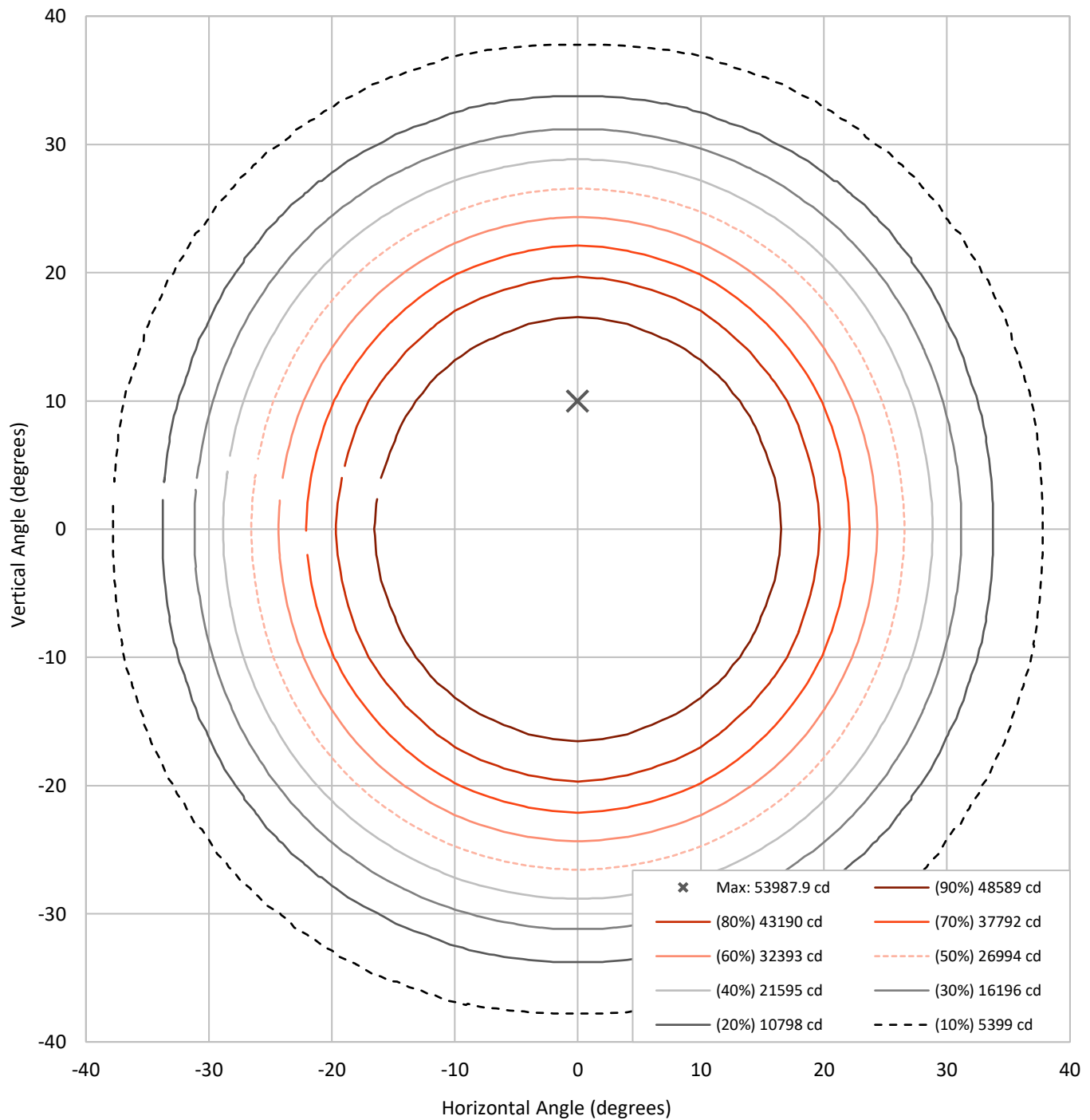
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	21957.8 lumens	Field Lumens:	28556.8 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 420.3
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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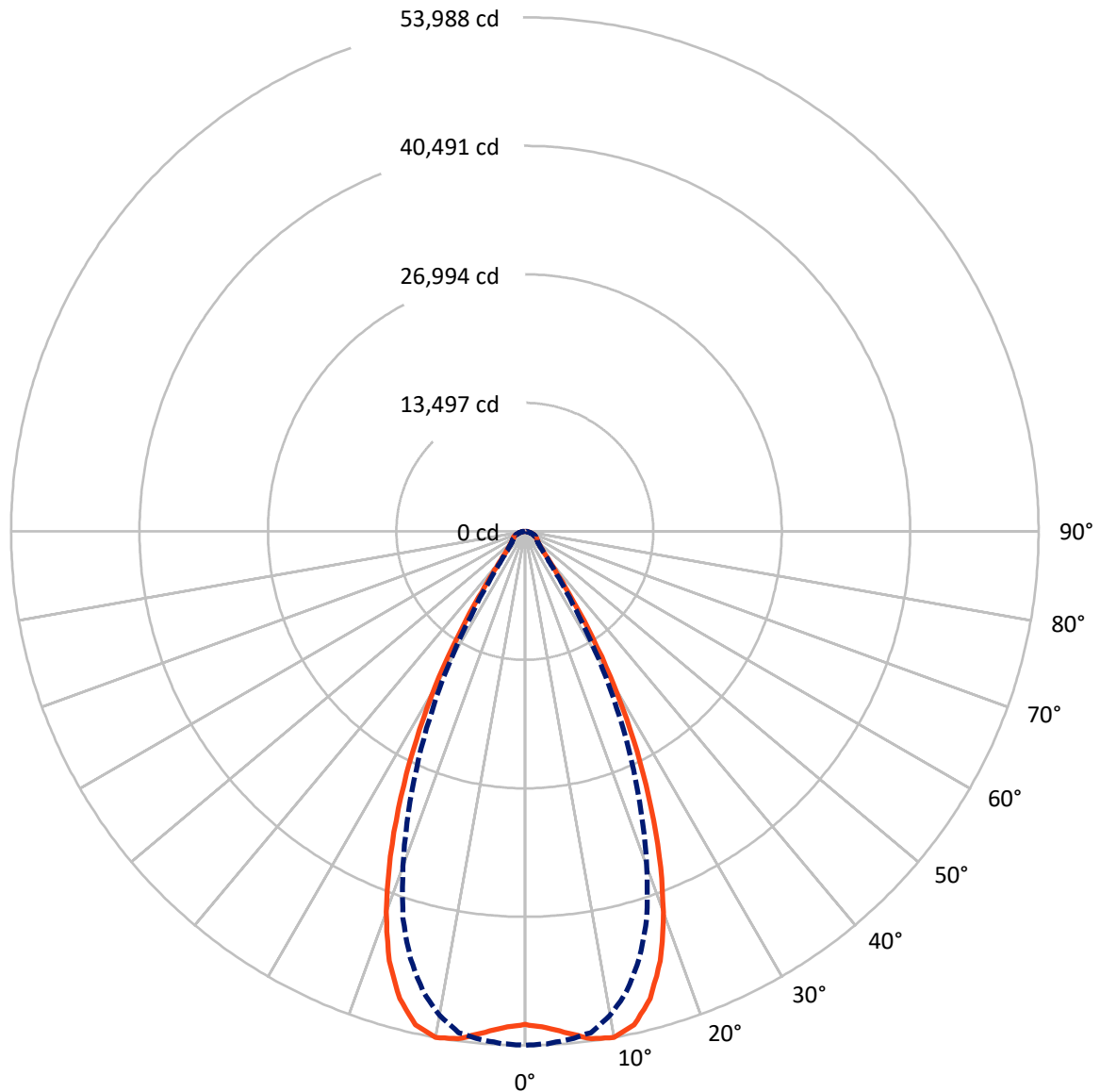
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Lumen Table

90																			
80	1.3		9.7		25.3		40.8		47.2		40.8		25.3		9.7		1.3		
70																			
60	4.4	4.8	10.0	16.5	23.2	29.0	33.2	35.4	35.4	33.2	29.0	23.2	16.5	10.0	4.8	4.4			
50		7.4	15.3	24.2	32.6	39.6	44.9	47.9	47.9	44.9	39.6	32.6	24.2	15.3	7.4				
40	7.8	10.0	19.7	29.8	40.0	51.8	65.5	76.1	76.1	65.5	51.8	40.0	29.8	19.7	10.0	7.8			
30		12.1	22.9	34.6	52.4	93.3	182.4	275.1	275.1	182.4	93.3	52.4	34.6	22.9	12.1				
20	10.4	13.7	25.1	40.5	84.7	269.9	625.5	887.7	887.7	625.5	269.9	84.7	40.5	25.1	13.7	10.4			
10		14.7	26.8	48.3	156.4	589.1	1152.7	1469.4	1469.4	1152.7	589.1	156.4	48.3	26.8	14.7				
0	11.4	15.2	27.7	54.6	229.5	811.6	1426.0	1617.1	1617.1	1426.0	811.6	229.5	54.6	27.7	15.2	11.4			
-10		15.2	27.7	54.6	229.5	811.6	1426.0	1617.1	1617.1	1426.0	811.6	229.5	54.6	27.7	15.2				
-20	10.4	14.7	26.8	48.3	156.4	589.1	1152.7	1469.4	1469.4	1152.7	589.1	156.4	48.3	26.8	14.7	10.4			
-30		13.7	25.1	40.5	84.7	269.9	625.5	887.7	887.7	625.5	269.9	84.7	40.5	25.1	13.7				
-40	7.8	12.1	22.9	34.6	52.4	93.3	182.4	275.1	275.1	182.4	93.3	52.4	34.6	22.9	12.1	7.8			
-50		10.0	19.7	29.8	40.0	51.8	65.5	76.1	76.1	65.5	51.8	40.0	29.8	19.7	10.0				
-60	4.4	7.4	15.3	24.2	32.6	39.6	44.9	47.9	47.9	44.9	39.6	32.6	24.2	15.3	7.4	4.4			
-70		4.8	10.0	16.5	23.2	29.0	33.2	35.4	35.4	33.2	29.0	23.2	16.5	10.0	4.8				
-80	1.3		9.7		25.3		40.8		47.2		40.8		25.3		9.7		1.3		
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
	Horizontal Angle (degrees)																		

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Luminous Intensity Polar Plot

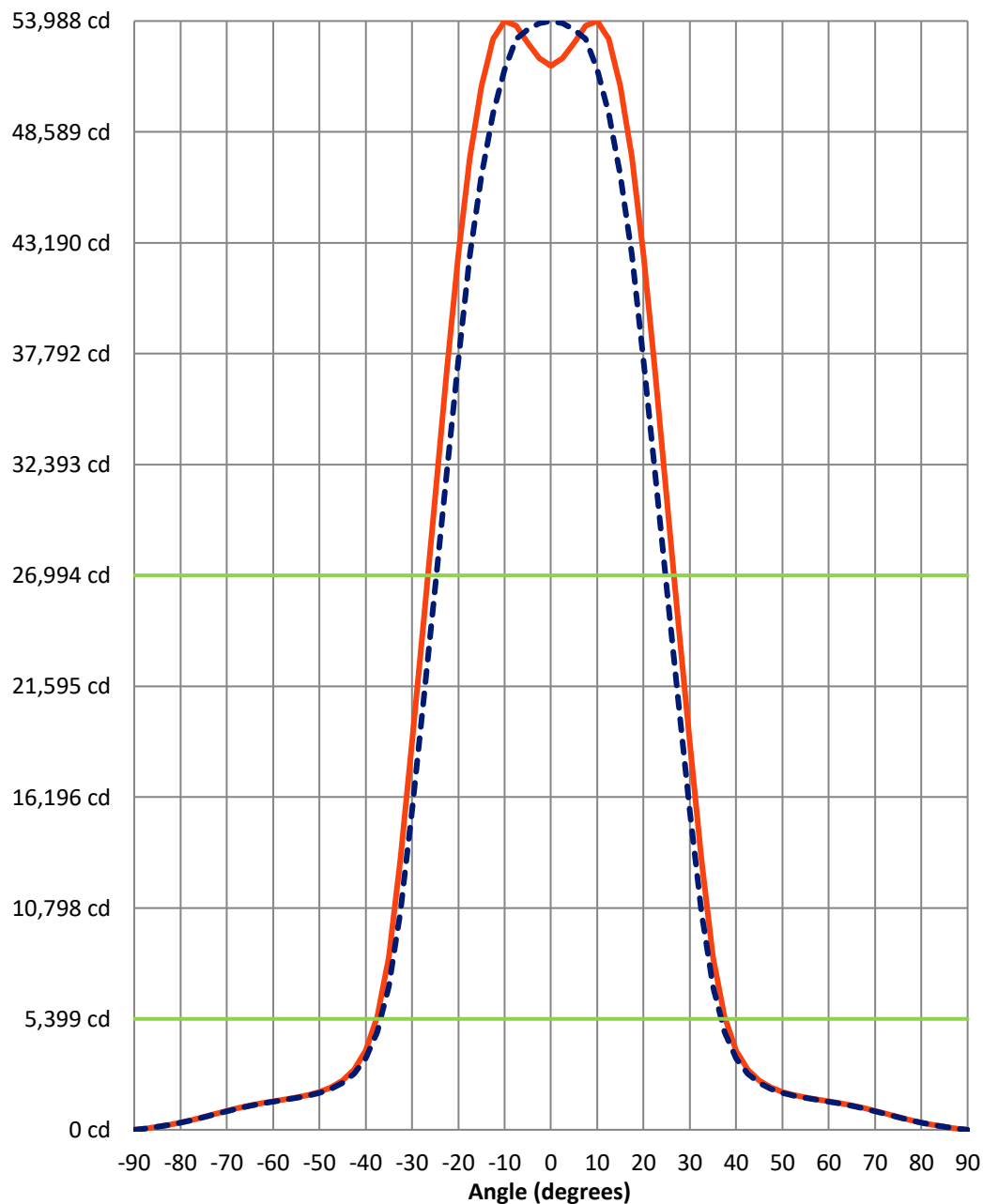


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 21957.8
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 28556.8
Efficiency: 64.6%

Spill:

Lumens: 15621.7
Efficiency: 35.4%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 10-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°	59.7	59.7	59.7	59.7	59.7	59.7	59.7	55.1	55.1	55.1	55.1
85°	146.9	146.9	146.9	146.9	146.9	142.3	142.3	137.7	137.7	133.1	128.5
82.5°	238.6	238.6	238.6	238.6	234.1	234.1	229.5	224.9	220.3	215.7	211.1
80°	348.8	348.8	348.8	348.8	344.2	339.6	335.0	330.4	321.2	316.7	307.5
77.5°	477.3	477.3	477.3	472.7	468.1	463.5	454.3	445.2	436.0	426.8	417.6
75°	624.1	624.1	624.1	615.0	610.4	601.2	592.0	582.8	569.1	555.3	541.5
72.5°	775.6	775.6	775.6	766.4	757.2	748.0	738.9	725.1	711.3	693.0	674.6
70°	917.9	917.9	917.9	908.7	899.5	890.3	876.5	862.8	844.4	826.1	807.7
67.5°	1064.7	1064.7	1064.7	1050.9	1041.8	1032.6	1018.8	1000.5	982.1	959.2	936.2
65°	1184.0	1184.0	1179.4	1174.8	1165.7	1151.9	1142.7	1124.4	1106.0	1087.7	1064.7
62.5°	1294.2	1294.2	1289.6	1285.0	1275.8	1262.0	1248.3	1234.5	1216.2	1193.2	1170.3
60°	1386.0	1386.0	1381.4	1376.8	1367.6	1358.4	1344.7	1330.9	1312.5	1294.2	1271.2
57.5°	1477.7	1477.7	1473.1	1468.6	1459.4	1445.6	1431.8	1418.1	1399.7	1376.8	1353.8
55°	1574.1	1574.1	1569.5	1560.3	1551.2	1537.4	1523.6	1505.3	1482.3	1459.4	1436.4
52.5°	1688.8	1688.8	1679.7	1670.5	1656.7	1643.0	1620.0	1597.1	1569.5	1542.0	1514.5
50°	1840.3	1840.3	1831.1	1817.3	1794.4	1771.5	1743.9	1707.2	1675.1	1638.4	1601.6
47.5°	2065.2	2065.2	2046.8	2023.9	1991.7	1955.0	1904.5	1849.5	1803.6	1757.7	1702.6
45°	2395.6	2395.6	2368.1	2331.3	2280.9	2216.6	2143.2	2065.2	1987.1	1909.1	1831.1
42.5°	2932.5	2932.5	2882.0	2817.8	2730.6	2620.5	2482.8	2354.3	2244.1	2120.2	2014.7
40°	3859.6	3859.6	3763.2	3643.9	3478.7	3267.5	3015.1	2813.2	2620.5	2404.8	2257.9
37.5°	5507.1	5507.1	5318.9	5089.5	4768.2	4364.4	3877.9	3552.1	3194.1	2854.5	2606.7
35°	8416.7	8416.7	8054.1	7609.0	6989.4	6209.3	5378.6	4763.6	4079.8	3556.7	3093.2
32.5°	13189.5	13189.5	12537.8	11734.7	10628.7	9229.0	7898.1	6727.8	5507.1	4639.7	3804.5
30°	18861.8	18861.8	18008.2	16957.3	15516.3	13698.9	11803.6	9724.6	7797.1	6250.6	4988.5
27.5°	24726.9	24483.7	23749.4	22551.6	20908.6	18861.8	16498.4	13813.6	11207.0	8480.9	6677.4
25°	30793.9	30509.3	29669.5	28292.7	26411.1	24093.6	21431.8	18430.4	15213.4	11964.2	8843.5
22.5°	36925.1	36603.9	35649.3	34093.5	31982.5	29385.0	26369.8	23033.5	19440.1	15686.1	11964.2
20°	42592.8	42253.2	41252.8	39632.8	37448.3	34598.4	31248.2	27549.3	23575.0	19440.1	15213.4
17.5°	47338.1	47012.3	46048.5	44502.0	42592.8	39440.0	35956.8	31890.7	27549.3	23033.5	18430.4
15°	50803.0	50523.1	49701.6	48402.8	46457.0	43666.7	40119.2	35956.8	31248.2	26369.8	21431.8
12.5°	53102.2	52877.4	52230.3	51220.6	49476.7	47136.2	43666.7	39440.0	34598.4	29385.0	24093.6
10°	53987.9	53877.8	53574.9	53111.4	51624.5	49476.7	46457.0	42592.8	37448.3	31982.5	26411.1
7.5°	53753.9	53790.6	53896.2	53776.8	53111.4	51220.6	48402.8	44502.0	39632.8	34093.5	28292.7
5°	52918.7	53116.0	53607.0	53896.2	53574.9	52230.3	49701.6	46048.5	41252.8	35649.3	29669.5
2.5°	52175.2	52482.7	53116.0	53790.6	53877.8	52877.4	50523.1	47012.3	42253.2	36603.9	30509.3
0°	51808.1	52175.2	52918.7	53753.9	53987.9	53102.2	50803.0	47338.1	42592.8	36925.1	30793.9

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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	50.5	50.5	50.5	45.9	45.9	45.9	41.3	41.3	36.7	36.7
85°	128.5	123.9	119.3	114.7	110.1	105.6	101.0	96.4	91.8	82.6	78.0
82.5°	206.5	201.9	197.3	188.2	183.6	174.4	165.2	156.0	146.9	142.3	133.1
80°	298.3	289.1	279.9	270.8	257.0	243.2	234.1	220.3	211.1	197.3	188.2
77.5°	403.9	390.1	376.3	358.0	344.2	330.4	312.1	298.3	279.9	261.6	243.2
75°	523.2	504.8	481.9	463.5	445.2	422.2	399.3	376.3	353.4	330.4	307.5
72.5°	651.7	628.7	605.8	582.8	555.3	523.2	495.6	463.5	436.0	408.4	376.3
70°	784.8	757.2	729.7	702.2	670.0	633.3	601.2	564.5	527.8	491.0	454.3
67.5°	908.7	881.1	849.0	821.5	784.8	748.0	706.7	665.4	624.1	578.2	532.4
65°	1037.2	1005.0	968.3	931.6	894.9	853.6	812.3	771.0	720.5	670.0	624.1
62.5°	1142.7	1115.2	1083.1	1046.3	1005.0	959.2	917.9	862.8	812.3	761.8	702.2
60°	1243.7	1211.6	1184.0	1142.7	1106.0	1064.7	1014.2	959.2	904.1	844.4	789.4
57.5°	1330.9	1303.3	1271.2	1234.5	1193.2	1151.9	1106.0	1055.5	991.3	931.6	867.4
55°	1408.9	1376.8	1344.7	1312.5	1275.8	1229.9	1184.0	1133.5	1078.5	1014.2	945.4
52.5°	1486.9	1454.8	1418.1	1386.0	1344.7	1303.3	1257.5	1207.0	1151.9	1092.2	1018.8
50°	1564.9	1528.2	1491.5	1450.2	1408.9	1367.6	1321.7	1275.8	1216.2	1156.5	1092.2
47.5°	1656.7	1610.8	1564.9	1519.0	1477.7	1427.3	1381.4	1330.9	1280.4	1216.2	1151.9
45°	1771.5	1702.6	1647.5	1592.5	1542.0	1491.5	1436.4	1386.0	1330.9	1275.8	1207.0
42.5°	1913.7	1821.9	1748.5	1675.1	1610.8	1551.2	1496.1	1436.4	1381.4	1321.7	1257.5
40°	2106.5	1982.6	1863.2	1771.5	1688.8	1615.4	1551.2	1491.5	1427.3	1367.6	1303.3
37.5°	2358.9	2184.5	2019.3	1886.2	1780.6	1688.8	1610.8	1542.0	1477.7	1408.9	1344.7
35°	2739.8	2436.9	2225.8	2033.0	1886.2	1771.5	1675.1	1592.5	1519.0	1450.2	1386.0
32.5°	3276.7	2808.6	2469.0	2225.8	2019.3	1863.2	1748.5	1647.5	1564.9	1491.5	1418.1
30°	3983.5	3336.4	2808.6	2436.9	2184.5	1982.6	1821.9	1702.6	1610.8	1528.2	1454.8
27.5°	5103.2	3983.5	3276.7	2739.8	2358.9	2106.5	1913.7	1771.5	1656.7	1564.9	1486.9
25°	6677.4	4988.5	3804.5	3093.2	2606.7	2257.9	2014.7	1831.1	1702.6	1601.6	1514.5
22.5°	8480.9	6250.6	4639.7	3556.7	2854.5	2404.8	2120.2	1909.1	1757.7	1638.4	1542.0
20°	11207.0	7797.1	5507.1	4079.8	3194.1	2620.5	2244.1	1987.1	1803.6	1675.1	1569.5
17.5°	13813.6	9724.6	6727.8	4763.6	3552.1	2813.2	2354.3	2065.2	1849.5	1707.2	1597.1
15°	16498.4	11803.6	7898.1	5378.6	3877.9	3015.1	2482.8	2143.2	1904.5	1743.9	1620.0
12.5°	18861.8	13698.9	9229.0	6209.3	4364.4	3267.5	2620.5	2216.6	1955.0	1771.5	1643.0
10°	20908.6	15516.3	10628.7	6989.4	4768.2	3478.7	2730.6	2280.9	1991.7	1794.4	1656.7
7.5°	22551.6	16957.3	11734.7	7609.0	5089.5	3643.9	2817.8	2331.3	2023.9	1817.3	1670.5
5°	23749.4	18008.2	12537.8	8054.1	5318.9	3763.2	2882.0	2368.1	2046.8	1831.1	1679.7
2.5°	24483.7	18861.8	13189.5	8416.7	5507.1	3859.6	2932.5	2395.6	2065.2	1840.3	1688.8
0°	24726.9	18861.8	13189.5	8416.7	5507.1	3859.6	2932.5	2395.6	2065.2	1840.3	1688.8

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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	32.1	27.5	27.5	22.9	22.9	18.4	18.4	13.8	13.8	9.2
85°	73.4	64.2	59.7	55.1	50.5	45.9	41.3	36.7	32.1	27.5	22.9
82.5°	123.9	114.7	101.0	91.8	82.6	73.4	59.7	55.1	45.9	36.7	32.1
80°	174.4	160.6	146.9	133.1	119.3	105.6	91.8	78.0	64.2	50.5	41.3
77.5°	224.9	206.5	192.7	174.4	156.0	137.7	119.3	101.0	82.6	64.2	50.5
75°	284.5	261.6	238.6	215.7	192.7	169.8	151.4	128.5	105.6	82.6	64.2
72.5°	348.8	316.7	289.1	261.6	229.5	206.5	179.0	156.0	128.5	101.0	78.0
70°	417.6	380.9	344.2	307.5	275.4	238.6	211.1	179.0	151.4	119.3	91.8
67.5°	486.5	445.2	403.9	358.0	316.7	279.9	238.6	206.5	169.8	137.7	105.6
65°	569.1	514.0	463.5	413.0	362.6	316.7	275.4	229.5	192.7	156.0	119.3
62.5°	647.1	587.4	527.8	468.1	413.0	358.0	307.5	261.6	215.7	174.4	133.1
60°	725.1	660.9	592.0	527.8	463.5	403.9	344.2	289.1	238.6	192.7	146.9
57.5°	803.1	729.7	660.9	587.4	514.0	445.2	380.9	316.7	261.6	206.5	160.6
55°	872.0	803.1	725.1	647.1	569.1	486.5	417.6	348.8	284.5	224.9	174.4
52.5°	945.4	867.4	789.4	702.2	624.1	532.4	454.3	376.3	307.5	243.2	188.2
50°	1014.2	931.6	844.4	761.8	670.0	578.2	491.0	408.4	330.4	261.6	197.3
47.5°	1078.5	991.3	904.1	812.3	720.5	624.1	527.8	436.0	353.4	279.9	211.1
45°	1133.5	1055.5	959.2	862.8	771.0	665.4	564.5	463.5	376.3	298.3	220.3
42.5°	1184.0	1106.0	1014.2	917.9	812.3	706.7	601.2	495.6	399.3	312.1	234.1
40°	1229.9	1151.9	1064.7	959.2	853.6	748.0	633.3	523.2	422.2	330.4	243.2
37.5°	1275.8	1193.2	1106.0	1005.0	894.9	784.8	670.0	555.3	445.2	344.2	257.0
35°	1312.5	1234.5	1142.7	1046.3	931.6	821.5	702.2	582.8	463.5	358.0	270.8
32.5°	1344.7	1271.2	1184.0	1083.1	968.3	849.0	729.7	605.8	481.9	376.3	279.9
30°	1376.8	1303.3	1211.6	1115.2	1005.0	881.1	757.2	628.7	504.8	390.1	289.1
27.5°	1408.9	1330.9	1243.7	1142.7	1037.2	908.7	784.8	651.7	523.2	403.9	298.3
25°	1436.4	1353.8	1271.2	1170.3	1064.7	936.2	807.7	674.6	541.5	417.6	307.5
22.5°	1459.4	1376.8	1294.2	1193.2	1087.7	959.2	826.1	693.0	555.3	426.8	316.7
20°	1482.3	1399.7	1312.5	1216.2	1106.0	982.1	844.4	711.3	569.1	436.0	321.2
17.5°	1505.3	1418.1	1330.9	1234.5	1124.4	1000.5	862.8	725.1	582.8	445.2	330.4
15°	1523.6	1431.8	1344.7	1248.3	1142.7	1018.8	876.5	738.9	592.0	454.3	335.0
12.5°	1537.4	1445.6	1358.4	1262.0	1151.9	1032.6	890.3	748.0	601.2	463.5	339.6
10°	1551.2	1459.4	1367.6	1275.8	1165.7	1041.8	899.5	757.2	610.4	468.1	344.2
7.5°	1560.3	1468.6	1376.8	1285.0	1174.8	1050.9	908.7	766.4	615.0	472.7	348.8
5°	1569.5	1473.1	1381.4	1289.6	1179.4	1064.7	917.9	775.6	624.1	477.3	348.8
2.5°	1574.1	1477.7	1386.0	1294.2	1184.0	1064.7	917.9	775.6	624.1	477.3	348.8
0°	1574.1	1477.7	1386.0	1294.2	1184.0	1064.7	917.9	775.6	624.1	477.3	348.8

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	4.6	0.0
85°	13.8	9.2	4.6	0.0
82.5°	22.9	13.8	9.2	0.0
80°	32.1	22.9	9.2	0.0
77.5°	36.7	27.5	13.8	0.0
75°	45.9	32.1	13.8	0.0
72.5°	55.1	36.7	18.4	0.0
70°	59.7	41.3	18.4	0.0
67.5°	73.4	45.9	22.9	0.0
65°	82.6	50.5	22.9	0.0
62.5°	91.8	55.1	27.5	0.0
60°	101.0	59.7	27.5	0.0
57.5°	114.7	64.2	32.1	0.0
55°	123.9	73.4	32.1	0.0
52.5°	133.1	78.0	36.7	0.0
50°	142.3	82.6	36.7	0.0
47.5°	146.9	91.8	41.3	0.0
45°	156.0	96.4	41.3	0.0
42.5°	165.2	101.0	45.9	0.0
40°	174.4	105.6	45.9	0.0
37.5°	183.6	110.1	45.9	0.0
35°	188.2	114.7	50.5	0.0
32.5°	197.3	119.3	50.5	0.0
30°	201.9	123.9	50.5	0.0
27.5°	206.5	128.5	55.1	0.0
25°	211.1	128.5	55.1	0.0
22.5°	215.7	133.1	55.1	0.0
20°	220.3	137.7	55.1	0.0
17.5°	224.9	137.7	55.1	0.0
15°	229.5	142.3	59.7	0.0
12.5°	234.1	142.3	59.7	0.0
10°	234.1	146.9	59.7	0.0
7.5°	238.6	146.9	59.7	0.0
5°	238.6	146.9	59.7	0.0
2.5°	238.6	146.9	59.7	0.0
0°	238.6	146.9	59.7	0.0

(END OF REPORT)