

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: P623707

Luminaire Tested: **IFLD-S-SA6C-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623707
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	44317.2 lumens	Max Intensity:	54157.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	137.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

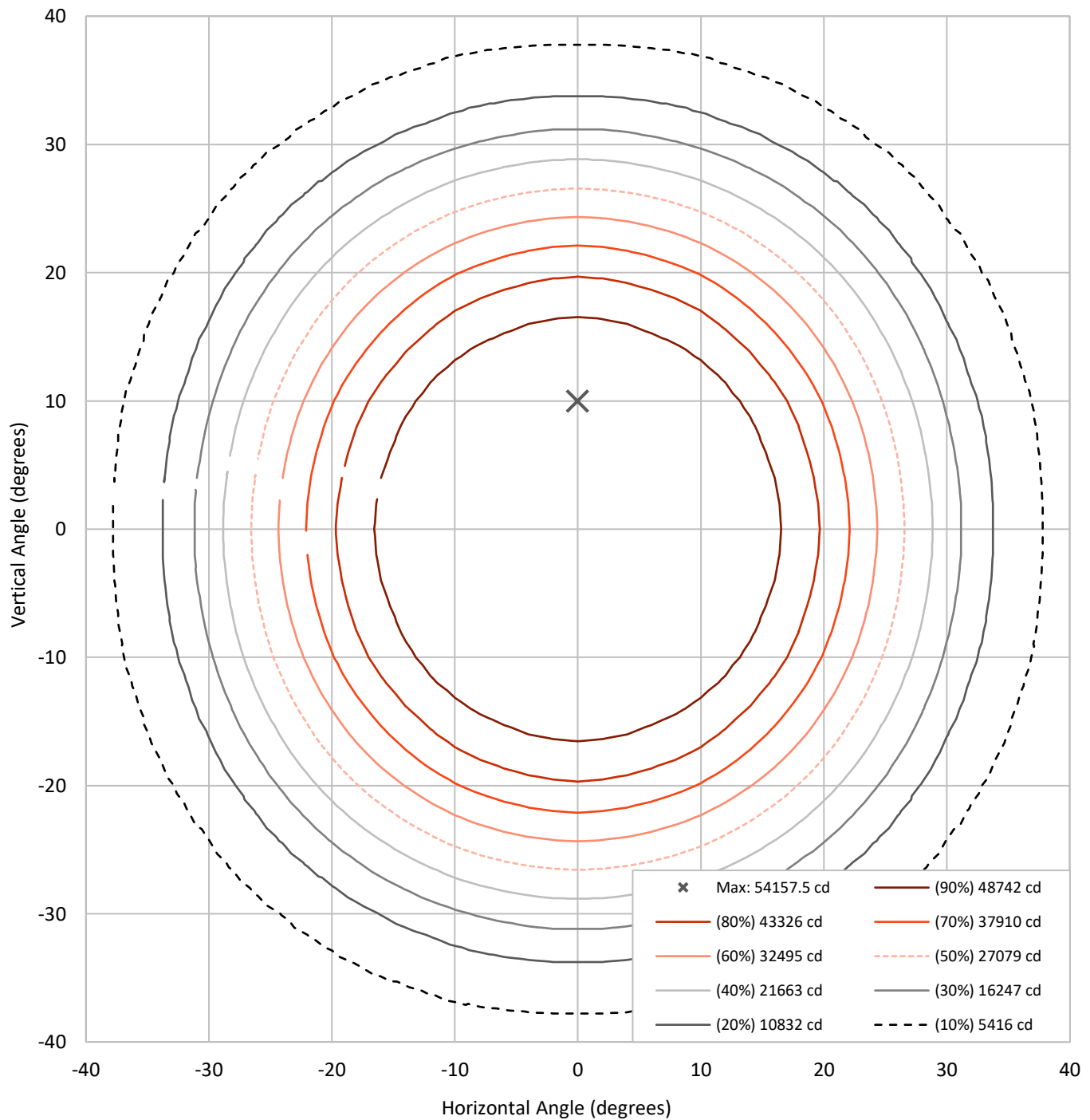
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	22026.8 lumens	Field Lumens:	28646.5 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 321.5
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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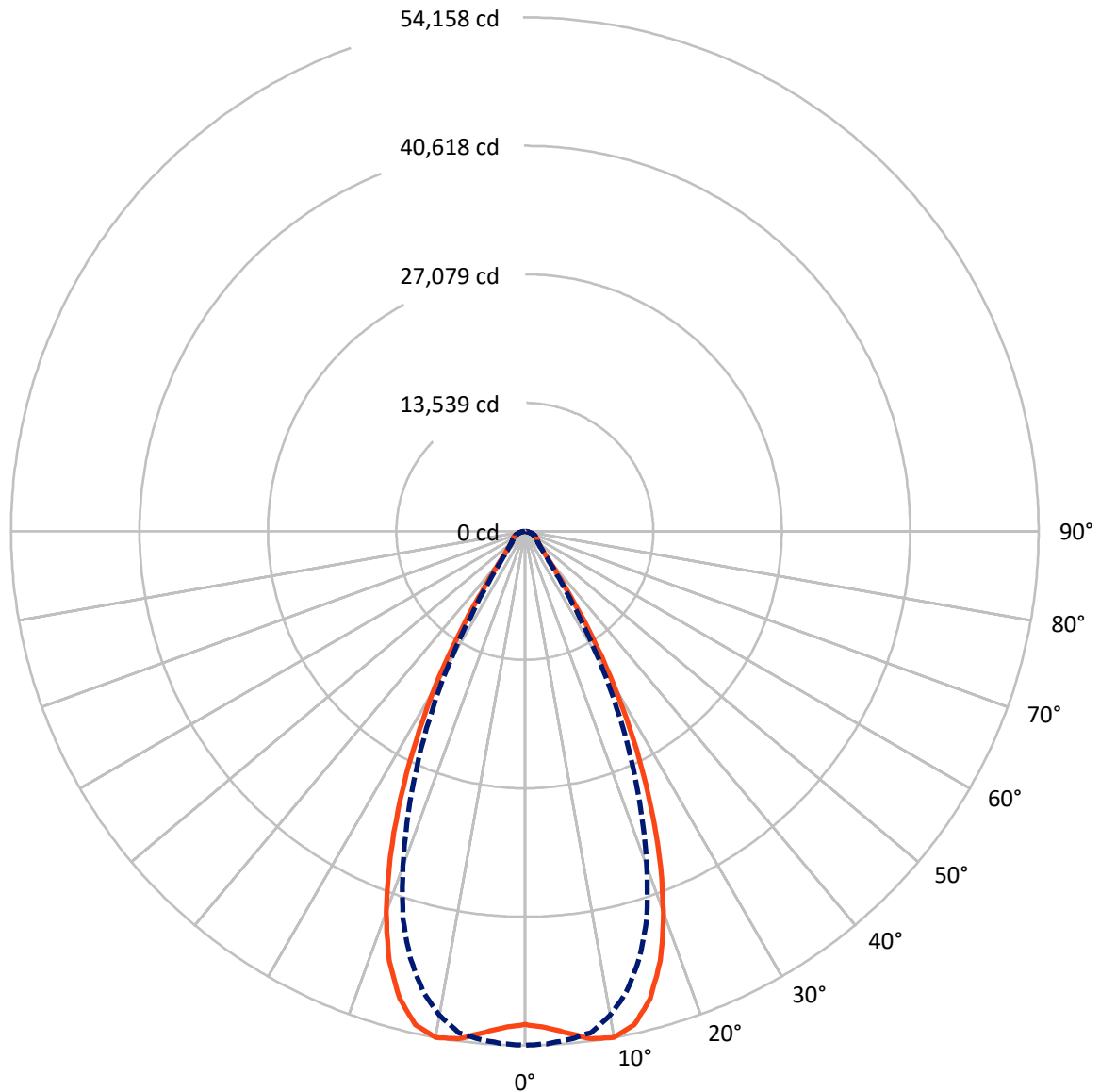
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Lumen Table

90																			
80	1.3	9.7		25.3		40.9		47.4		40.9		25.3		9.7		1.3			
70																			
60	4.5	4.8	10.0	16.5	23.2	29.1	33.3	35.5	35.5	33.3	29.1	23.2	16.5	10.0	4.8	4.5			
50		7.4	15.3	24.3	32.7	39.7	45.0	48.0	48.0	45.0	39.7	32.7	24.3	15.3	7.4				
40	7.9	10.0	19.8	29.9	40.1	51.9	65.7	76.4	76.4	65.7	51.9	40.1	29.9	19.8	10.0	7.9			
30		12.1	22.9	34.7	52.6	93.6	183.0	275.9	275.9	183.0	93.6	52.6	34.7	22.9	12.1				
20	10.5	13.7	25.2	40.7	85.0	270.8	627.4	890.5	890.5	627.4	270.8	85.0	40.7	25.2	13.7	10.5			
10		14.7	26.9	48.5	156.8	591.0	1156.3	1474.0	1474.0	1156.3	591.0	156.8	48.5	26.9	14.7				
0	11.4	15.2	27.8	54.7	230.2	814.1	1430.5	1622.2	1622.2	1430.5	814.1	230.2	54.7	27.8	15.2	11.4			
-10		15.2	27.8	54.7	230.2	814.1	1430.5	1622.2	1622.2	1430.5	814.1	230.2	54.7	27.8	15.2				
-20	10.5	14.7	26.9	48.5	156.8	591.0	1156.3	1474.0	1474.0	1156.3	591.0	156.8	48.5	26.9	14.7	10.5			
-30		13.7	25.2	40.7	85.0	270.8	627.4	890.5	890.5	627.4	270.8	85.0	40.7	25.2	13.7				
-40	7.9	12.1	22.9	34.7	52.6	93.6	183.0	275.9	275.9	183.0	93.6	52.6	34.7	22.9	12.1	7.9			
-50		10.0	19.8	29.9	40.1	51.9	65.7	76.4	76.4	65.7	51.9	40.1	29.9	19.8	10.0				
-60	4.5	7.4	15.3	24.3	32.7	39.7	45.0	48.0	48.0	45.0	39.7	32.7	24.3	15.3	7.4	4.5			
-70		4.8	10.0	16.5	23.2	29.1	33.3	35.5	35.5	33.3	29.1	23.2	16.5	10.0	4.8				
-80	1.3	9.7		25.3		40.9		47.4		40.9		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

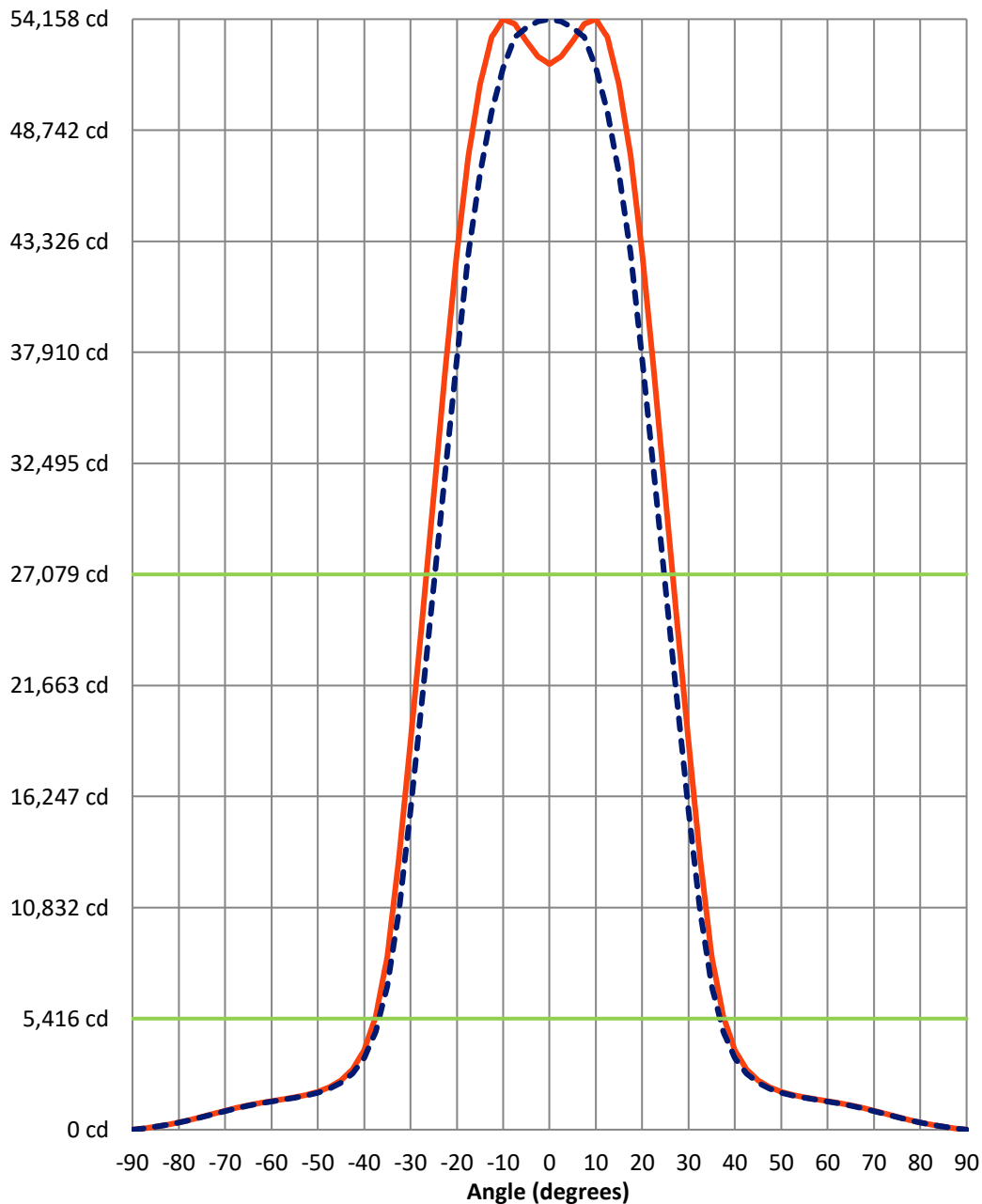


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 22026.8
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 28646.5
Efficiency: 64.6%

Spill:

Lumens: 15670.8
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°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	55.2	55.2	55.2	55.2
85°	147.3	147.3	147.3	147.3	147.3	142.7	142.7	138.1	138.1	133.5	128.9
82.5°	239.4	239.4	239.4	239.4	234.8	234.8	230.2	225.6	221.0	216.4	211.8
80°	349.9	349.9	349.9	349.9	345.3	340.7	336.1	331.5	322.3	317.7	308.4
77.5°	478.8	478.8	478.8	474.2	469.6	465.0	455.8	446.6	437.3	428.1	418.9
75°	626.1	626.1	626.1	616.9	612.3	603.1	593.9	584.7	570.9	557.0	543.2
72.5°	778.0	778.0	778.0	768.8	759.6	750.4	741.2	727.4	713.6	695.2	676.7
70°	920.7	920.7	920.7	911.5	902.3	893.1	879.3	865.5	847.1	828.7	810.2
67.5°	1068.1	1068.1	1068.1	1054.2	1045.0	1035.8	1022.0	1003.6	985.2	962.2	939.1
65°	1187.7	1187.7	1183.1	1178.5	1169.3	1155.5	1146.3	1127.9	1109.5	1091.1	1068.1
62.5°	1298.2	1298.2	1293.6	1289.0	1279.8	1266.0	1252.2	1238.4	1220.0	1197.0	1173.9
60°	1390.3	1390.3	1385.7	1381.1	1371.9	1362.7	1348.9	1335.1	1316.6	1298.2	1275.2
57.5°	1482.4	1482.4	1477.8	1473.2	1464.0	1450.2	1436.3	1422.5	1404.1	1381.1	1358.1
55°	1579.1	1579.1	1574.5	1565.2	1556.0	1542.2	1528.4	1510.0	1487.0	1464.0	1440.9
52.5°	1694.1	1694.1	1684.9	1675.7	1661.9	1648.1	1625.1	1602.1	1574.5	1546.8	1519.2
50°	1846.1	1846.1	1836.9	1823.1	1800.0	1777.0	1749.4	1712.6	1680.3	1643.5	1606.7
47.5°	2071.6	2071.6	2053.2	2030.2	1998.0	1961.2	1910.5	1855.3	1809.2	1763.2	1708.0
45°	2403.1	2403.1	2375.5	2338.7	2288.0	2223.6	2149.9	2071.6	1993.4	1915.1	1836.9
42.5°	2941.7	2941.7	2891.1	2826.7	2739.2	2628.7	2490.6	2361.7	2251.2	2126.9	2021.0
40°	3871.7	3871.7	3775.0	3655.3	3489.6	3277.8	3024.6	2822.0	2628.7	2412.3	2265.0
37.5°	5524.4	5524.4	5335.6	5105.5	4783.2	4378.1	3890.1	3563.2	3204.2	2863.5	2614.9
35°	8443.1	8443.1	8079.4	7632.9	7011.4	6228.8	5395.5	4778.6	4092.7	3567.8	3102.9
32.5°	13230.9	13230.9	12577.2	11771.6	10662.1	9258.0	7922.9	6749.0	5524.4	4654.3	3816.4
30°	18921.1	18921.1	18064.8	17010.5	15565.0	13741.9	11840.6	9755.2	7821.6	6270.2	5004.2
27.5°	24804.5	24560.6	23824.0	22622.4	20974.3	18921.1	16550.2	13857.0	11242.1	8507.6	6698.3
25°	30890.6	30605.2	29762.7	28381.6	26494.1	24169.2	21499.1	18488.3	15261.1	12001.8	8871.3
22.5°	37041.1	36718.8	35761.3	34200.6	32082.9	29477.3	26452.7	23105.8	19501.1	15735.3	12001.8
20°	42726.6	42385.9	41382.3	39757.2	37565.9	34707.0	31346.4	27635.8	23649.0	19501.1	15261.1
17.5°	47486.8	47159.9	46193.2	44641.7	42726.6	39563.9	36069.7	31990.9	27635.8	23105.8	18488.3
15°	50962.6	50681.7	49857.7	48554.9	46602.9	43803.9	40245.2	36069.7	31346.4	26452.7	21499.1
12.5°	53269.0	53043.4	52394.3	51381.5	49632.1	47284.2	43803.9	39563.9	34707.0	29477.3	24169.2
10°	54157.5	54047.0	53743.2	53278.2	51786.6	49632.1	46602.9	42726.6	37565.9	32082.9	26494.1
7.5°	53922.7	53959.6	54065.4	53945.7	53278.2	51381.5	48554.9	44641.7	39757.2	34200.6	28381.6
5°	53084.9	53282.8	53775.4	54065.4	53743.2	52394.3	49857.7	46193.2	41382.3	35761.3	29762.7
2.5°	52339.1	52647.5	53282.8	53959.6	54047.0	53043.4	50681.7	47159.9	42385.9	36718.8	30605.2
0°	51970.8	52339.1	53084.9	53922.7	54157.5	53269.0	50962.6	47486.8	42726.6	37041.1	30890.6

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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°	55.2	50.6	50.6	50.6	46.0	46.0	46.0	41.4	41.4	36.8	36.8
85°	128.9	124.3	119.7	115.1	110.5	105.9	101.3	96.7	92.1	82.9	78.3
82.5°	207.2	202.6	198.0	188.8	184.1	174.9	165.7	156.5	147.3	142.7	133.5
80°	299.2	290.0	280.8	271.6	257.8	244.0	234.8	221.0	211.8	198.0	188.8
77.5°	405.1	391.3	377.5	359.1	345.3	331.5	313.0	299.2	280.8	262.4	244.0
75°	524.8	506.4	483.4	465.0	446.6	423.5	400.5	377.5	354.5	331.5	308.4
72.5°	653.7	630.7	607.7	584.7	557.0	524.8	497.2	465.0	437.3	409.7	377.5
70°	787.2	759.6	732.0	704.4	672.1	635.3	603.1	566.3	529.4	492.6	455.8
67.5°	911.5	883.9	851.7	824.1	787.2	750.4	709.0	667.5	626.1	580.1	534.0
65°	1040.4	1008.2	971.4	934.5	897.7	856.3	814.8	773.4	722.8	672.1	626.1
62.5°	1146.3	1118.7	1086.5	1049.6	1008.2	962.2	920.7	865.5	814.8	764.2	704.4
60°	1247.6	1215.4	1187.7	1146.3	1109.5	1068.1	1017.4	962.2	906.9	847.1	791.8
57.5°	1335.1	1307.4	1275.2	1238.4	1197.0	1155.5	1109.5	1058.8	994.4	934.5	870.1
55°	1413.3	1381.1	1348.9	1316.6	1279.8	1233.8	1187.7	1137.1	1081.9	1017.4	948.4
52.5°	1491.6	1459.4	1422.5	1390.3	1348.9	1307.4	1261.4	1210.8	1155.5	1095.7	1022.0
50°	1569.8	1533.0	1496.2	1454.8	1413.3	1371.9	1325.9	1279.8	1220.0	1160.1	1095.7
47.5°	1661.9	1615.9	1569.8	1523.8	1482.4	1431.7	1385.7	1335.1	1284.4	1220.0	1155.5
45°	1777.0	1708.0	1652.7	1597.5	1546.8	1496.2	1440.9	1390.3	1335.1	1279.8	1210.8
42.5°	1919.7	1827.7	1754.0	1680.3	1615.9	1556.0	1500.8	1440.9	1385.7	1325.9	1261.4
40°	2113.1	1988.8	1869.1	1777.0	1694.1	1620.5	1556.0	1496.2	1431.7	1371.9	1307.4
37.5°	2366.3	2191.3	2025.6	1892.1	1786.2	1694.1	1615.9	1546.8	1482.4	1413.3	1348.9
35°	2748.4	2444.5	2232.8	2039.4	1892.1	1777.0	1680.3	1597.5	1523.8	1454.8	1390.3
32.5°	3287.0	2817.4	2476.8	2232.8	2025.6	1869.1	1754.0	1652.7	1569.8	1496.2	1422.5
30°	3996.0	3346.9	2817.4	2444.5	2191.3	1988.8	1827.7	1708.0	1615.9	1533.0	1459.4
27.5°	5119.3	3996.0	3287.0	2748.4	2366.3	2113.1	1919.7	1777.0	1661.9	1569.8	1491.6
25°	6698.3	5004.2	3816.4	3102.9	2614.9	2265.0	2021.0	1836.9	1708.0	1606.7	1519.2
22.5°	8507.6	6270.2	4654.3	3567.8	2863.5	2412.3	2126.9	1915.1	1763.2	1643.5	1546.8
20°	11242.1	7821.6	5524.4	4092.7	3204.2	2628.7	2251.2	1993.4	1809.2	1680.3	1574.5
17.5°	13857.0	9755.2	6749.0	4778.6	3563.2	2822.0	2361.7	2071.6	1855.3	1712.6	1602.1
15°	16550.2	11840.6	7922.9	5395.5	3890.1	3024.6	2490.6	2149.9	1910.5	1749.4	1625.1
12.5°	18921.1	13741.9	9258.0	6228.8	4378.1	3277.8	2628.7	2223.6	1961.2	1777.0	1648.1
10°	20974.3	15565.0	10662.1	7011.4	4783.2	3489.6	2739.2	2288.0	1998.0	1800.0	1661.9
7.5°	22622.4	17010.5	11771.6	7632.9	5105.5	3655.3	2826.7	2338.7	2030.2	1823.1	1675.7
5°	23824.0	18064.8	12577.2	8079.4	5335.6	3775.0	2891.1	2375.5	2053.2	1836.9	1684.9
2.5°	24560.6	18921.1	13230.9	8443.1	5524.4	3871.7	2941.7	2403.1	2071.6	1846.1	1694.1
0°	24804.5	18921.1	13230.9	8443.1	5524.4	3871.7	2941.7	2403.1	2071.6	1846.1	1694.1

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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°	32.2	32.2	27.6	27.6	23.0	23.0	18.4	18.4	13.8	13.8	9.2
85°	73.7	64.5	59.8	55.2	50.6	46.0	41.4	36.8	32.2	27.6	23.0
82.5°	124.3	115.1	101.3	92.1	82.9	73.7	59.8	55.2	46.0	36.8	32.2
80°	174.9	161.1	147.3	133.5	119.7	105.9	92.1	78.3	64.5	50.6	41.4
77.5°	225.6	207.2	193.4	174.9	156.5	138.1	119.7	101.3	82.9	64.5	50.6
75°	285.4	262.4	239.4	216.4	193.4	170.3	151.9	128.9	105.9	82.9	64.5
72.5°	349.9	317.7	290.0	262.4	230.2	207.2	179.5	156.5	128.9	101.3	78.3
70°	418.9	382.1	345.3	308.4	276.2	239.4	211.8	179.5	151.9	119.7	92.1
67.5°	488.0	446.6	405.1	359.1	317.7	280.8	239.4	207.2	170.3	138.1	105.9
65°	570.9	515.6	465.0	414.3	363.7	317.7	276.2	230.2	193.4	156.5	119.7
62.5°	649.1	589.3	529.4	469.6	414.3	359.1	308.4	262.4	216.4	174.9	133.5
60°	727.4	662.9	593.9	529.4	465.0	405.1	345.3	290.0	239.4	193.4	147.3
57.5°	805.6	732.0	662.9	589.3	515.6	446.6	382.1	317.7	262.4	207.2	161.1
55°	874.7	805.6	727.4	649.1	570.9	488.0	418.9	349.9	285.4	225.6	174.9
52.5°	948.4	870.1	791.8	704.4	626.1	534.0	455.8	377.5	308.4	244.0	188.8
50°	1017.4	934.5	847.1	764.2	672.1	580.1	492.6	409.7	331.5	262.4	198.0
47.5°	1081.9	994.4	906.9	814.8	722.8	626.1	529.4	437.3	354.5	280.8	211.8
45°	1137.1	1058.8	962.2	865.5	773.4	667.5	566.3	465.0	377.5	299.2	221.0
42.5°	1187.7	1109.5	1017.4	920.7	814.8	709.0	603.1	497.2	400.5	313.0	234.8
40°	1233.8	1155.5	1068.1	962.2	856.3	750.4	635.3	524.8	423.5	331.5	244.0
37.5°	1279.8	1197.0	1109.5	1008.2	897.7	787.2	672.1	557.0	446.6	345.3	257.8
35°	1316.6	1238.4	1146.3	1049.6	934.5	824.1	704.4	584.7	465.0	359.1	271.6
32.5°	1348.9	1275.2	1187.7	1086.5	971.4	851.7	732.0	607.7	483.4	377.5	280.8
30°	1381.1	1307.4	1215.4	1118.7	1008.2	883.9	759.6	630.7	506.4	391.3	290.0
27.5°	1413.3	1335.1	1247.6	1146.3	1040.4	911.5	787.2	653.7	524.8	405.1	299.2
25°	1440.9	1358.1	1275.2	1173.9	1068.1	939.1	810.2	676.7	543.2	418.9	308.4
22.5°	1464.0	1381.1	1298.2	1197.0	1091.1	962.2	828.7	695.2	557.0	428.1	317.7
20°	1487.0	1404.1	1316.6	1220.0	1109.5	985.2	847.1	713.6	570.9	437.3	322.3
17.5°	1510.0	1422.5	1335.1	1238.4	1127.9	1003.6	865.5	727.4	584.7	446.6	331.5
15°	1528.4	1436.3	1348.9	1252.2	1146.3	1022.0	879.3	741.2	593.9	455.8	336.1
12.5°	1542.2	1450.2	1362.7	1266.0	1155.5	1035.8	893.1	750.4	603.1	465.0	340.7
10°	1556.0	1464.0	1371.9	1279.8	1169.3	1045.0	902.3	759.6	612.3	469.6	345.3
7.5°	1565.2	1473.2	1381.1	1289.0	1178.5	1054.2	911.5	768.8	616.9	474.2	349.9
5°	1574.5	1477.8	1385.7	1293.6	1183.1	1068.1	920.7	778.0	626.1	478.8	349.9
2.5°	1579.1	1482.4	1390.3	1298.2	1187.7	1068.1	920.7	778.0	626.1	478.8	349.9
0°	1579.1	1482.4	1390.3	1298.2	1187.7	1068.1	920.7	778.0	626.1	478.8	349.9

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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°	23.0	13.8	9.2	0.0
80°	32.2	23.0	9.2	0.0
77.5°	36.8	27.6	13.8	0.0
75°	46.0	32.2	13.8	0.0
72.5°	55.2	36.8	18.4	0.0
70°	59.8	41.4	18.4	0.0
67.5°	73.7	46.0	23.0	0.0
65°	82.9	50.6	23.0	0.0
62.5°	92.1	55.2	27.6	0.0
60°	101.3	59.8	27.6	0.0
57.5°	115.1	64.5	32.2	0.0
55°	124.3	73.7	32.2	0.0
52.5°	133.5	78.3	36.8	0.0
50°	142.7	82.9	36.8	0.0
47.5°	147.3	92.1	41.4	0.0
45°	156.5	96.7	41.4	0.0
42.5°	165.7	101.3	46.0	0.0
40°	174.9	105.9	46.0	0.0
37.5°	184.1	110.5	46.0	0.0
35°	188.8	115.1	50.6	0.0
32.5°	198.0	119.7	50.6	0.0
30°	202.6	124.3	50.6	0.0
27.5°	207.2	128.9	55.2	0.0
25°	211.8	128.9	55.2	0.0
22.5°	216.4	133.5	55.2	0.0
20°	221.0	138.1	55.2	0.0
17.5°	225.6	138.1	55.2	0.0
15°	230.2	142.7	59.8	0.0
12.5°	234.8	142.7	59.8	0.0
10°	234.8	147.3	59.8	0.0
7.5°	239.4	147.3	59.8	0.0
5°	239.4	147.3	59.8	0.0
2.5°	239.4	147.3	59.8	0.0
0°	239.4	147.3	59.8	0.0

(END OF REPORT)