

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: P623603

Luminaire Tested: **IFLD-L-SA7E-727-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623603
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	49225.1 lumens	Max Intensity:	60155.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	92.4 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:	24466.1 lumens	Field Lumens:	31818.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

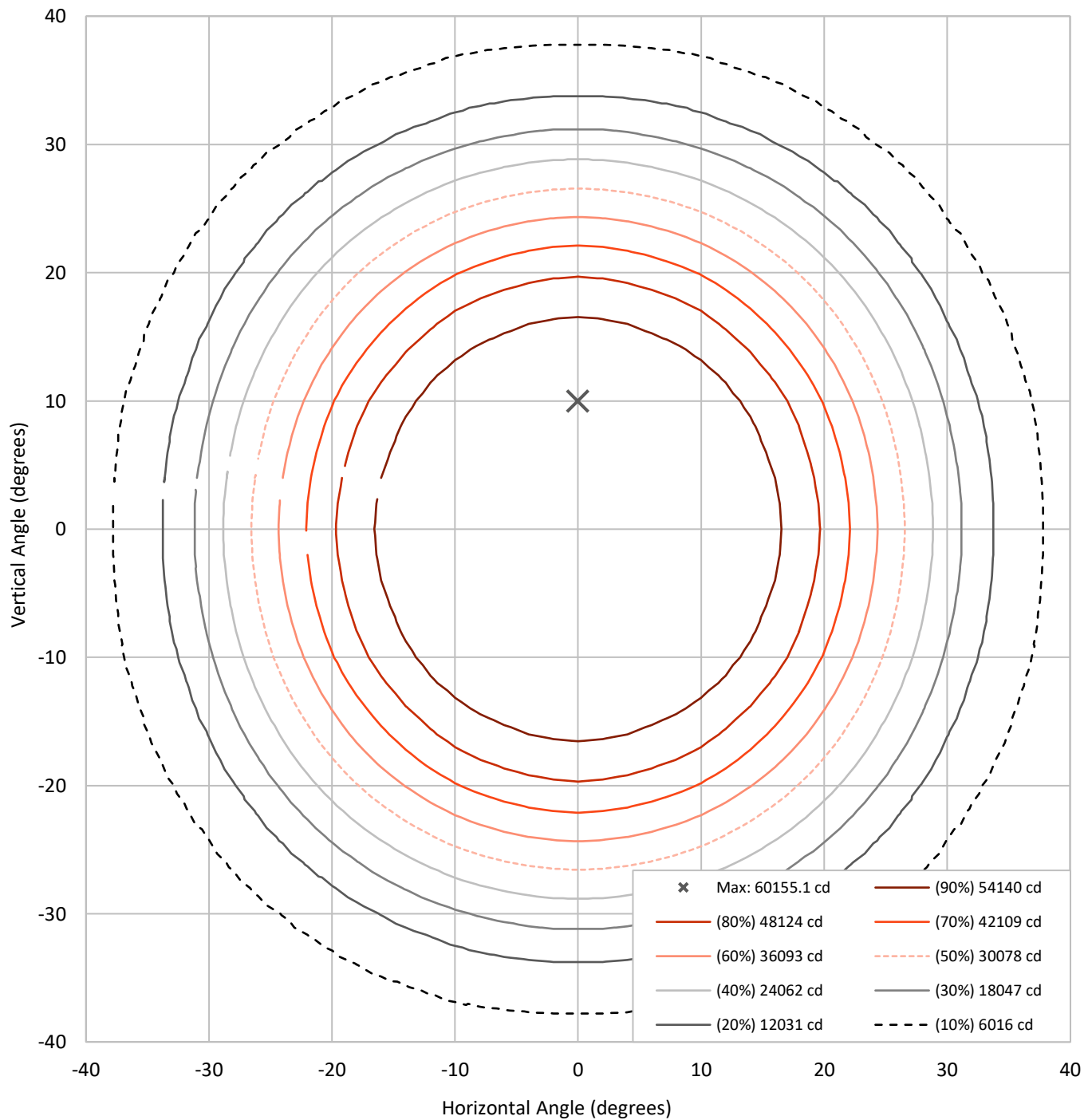
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



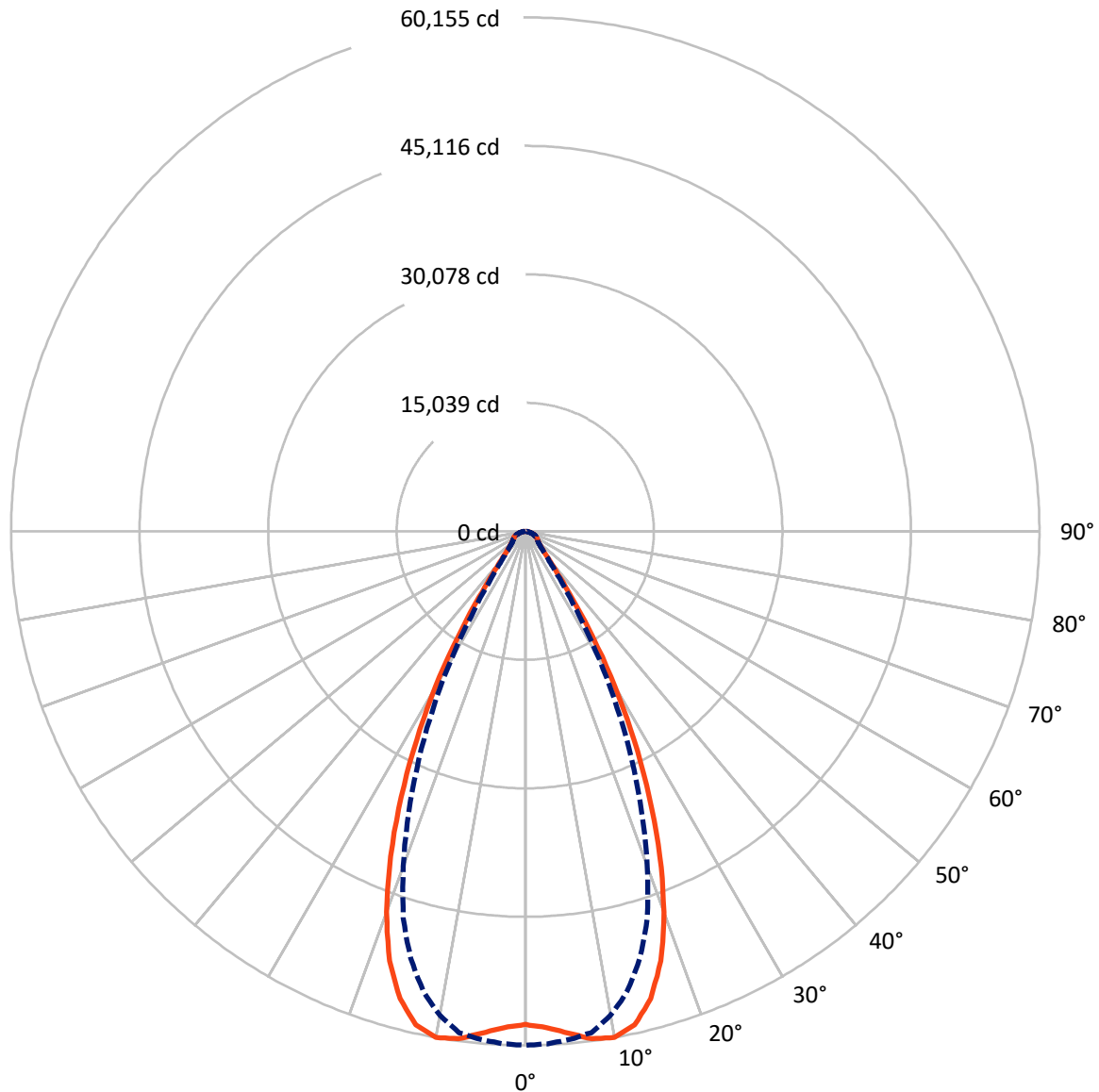
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Lumen Table

90																			
80	1.4	10.8		28.1		45.4		52.6		45.4		28.1		10.8		1.4			
70																			
60	4.9	5.3	11.1	18.4	25.8	32.3	36.9	39.4	39.4	36.9	32.3	25.8	18.4	11.1	5.3	4.9			
50		8.3	17.0	27.0	36.3	44.1	50.0	53.4	53.4	50.0	44.1	36.3	27.0	17.0	8.3				
40	8.7	11.1	22.0	33.2	44.6	57.7	73.0	84.8	84.8	73.0	57.7	44.6	33.2	22.0	11.1	8.7			
30		13.5	25.5	38.5	58.4	104.0	203.2	306.5	306.5	203.2	104.0	58.4	38.5	25.5	13.5				
20	11.6	15.2	28.0	45.2	94.4	300.8	696.9	989.1	989.1	696.9	300.8	94.4	45.2	28.0	15.2	11.6			
10		16.4	29.9	53.8	174.2	656.4	1284.3	1637.3	1637.3	1284.3	656.4	174.2	53.8	29.9	16.4				
0	12.7	16.9	30.9	60.8	255.7	904.3	1588.9	1801.9	1801.9	1588.9	904.3	255.7	60.8	30.9	16.9	12.7			
-10		16.9	30.9	60.8	255.7	904.3	1588.9	1801.9	1801.9	1588.9	904.3	255.7	60.8	30.9	16.9				
-20	11.6	16.4	29.9	53.8	174.2	656.4	1284.3	1637.3	1637.3	1284.3	656.4	174.2	53.8	29.9	16.4	11.6			
-30		15.2	28.0	45.2	94.4	300.8	696.9	989.1	989.1	696.9	300.8	94.4	45.2	28.0	15.2				
-40	8.7	13.5	25.5	38.5	58.4	104.0	203.2	306.5	306.5	203.2	104.0	58.4	38.5	25.5	13.5	8.7			
-50		11.1	22.0	33.2	44.6	57.7	73.0	84.8	84.8	73.0	57.7	44.6	33.2	22.0	11.1				
-60	4.9	8.3	17.0	27.0	36.3	44.1	50.0	53.4	53.4	50.0	44.1	36.3	27.0	17.0	8.3	4.9			
-70		5.3	11.1	18.4	25.8	32.3	36.9	39.4	39.4	36.9	32.3	25.8	18.4	11.1	5.3				
-80	1.4	10.8		28.1		45.4		52.6		45.4		28.1		10.8		1.4			
-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

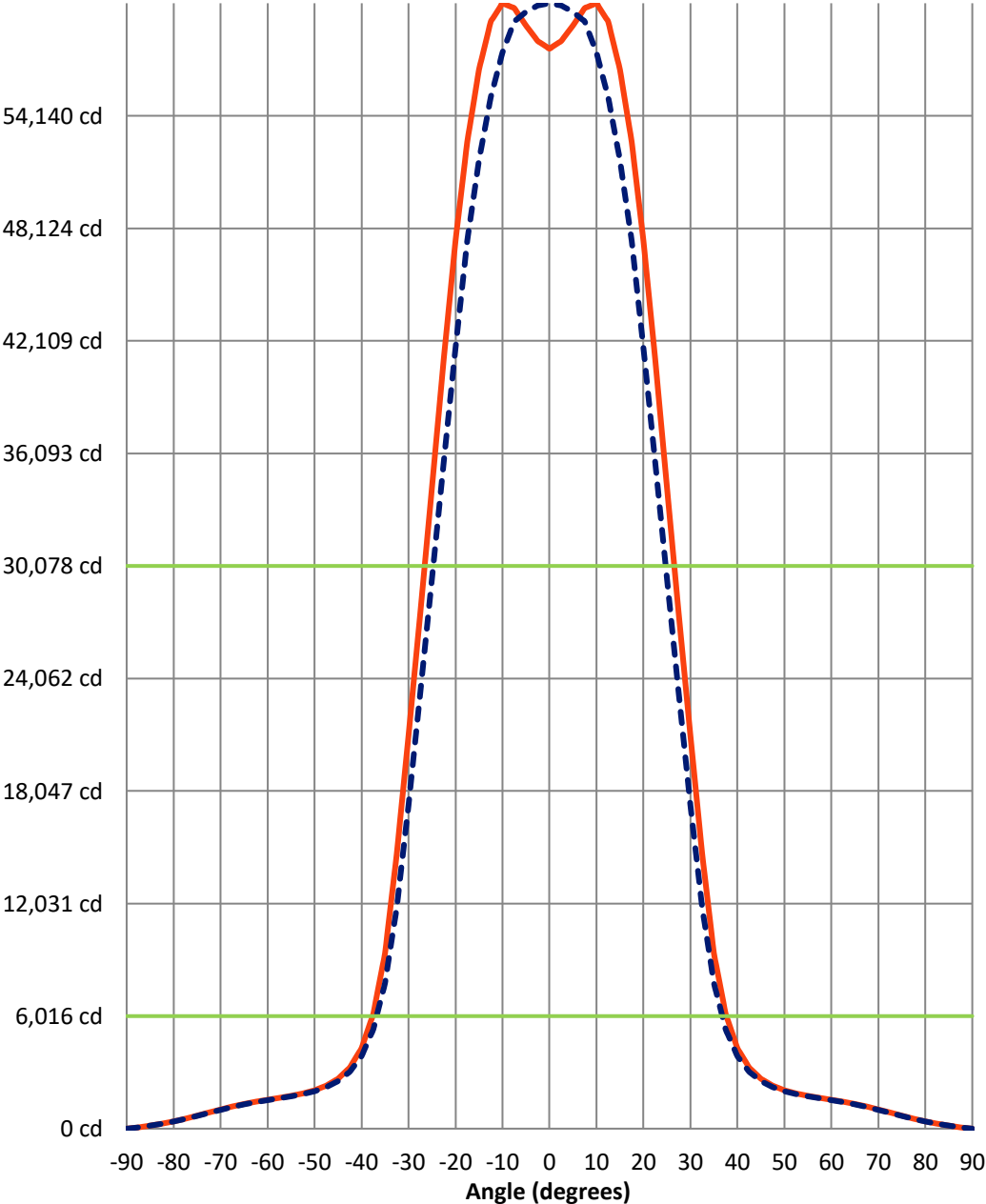


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg



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Luminous Intensity Plot



Beam:
H Angle: 49.5°
V Angle: 53.1°
Lumens: 24466.1
Efficiency: 49.7%

Field:
H Angle: 73.6°
V Angle: 75.3°
Lumens: 31818.9
Efficiency: 64.6%

Spill:
Lumens: 17406.2
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°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	61.4	61.4	61.4	61.4
85°	163.6	163.6	163.6	163.6	163.6	158.5	158.5	153.4	153.4	148.3	143.2
82.5°	265.9	265.9	265.9	265.9	260.8	260.8	255.7	250.6	245.4	240.3	235.2
80°	388.6	388.6	388.6	388.6	383.5	378.4	373.3	368.2	357.9	352.8	342.6
77.5°	531.8	531.8	531.8	526.7	521.6	516.5	506.2	496.0	485.8	475.6	465.3
75°	695.4	695.4	695.4	685.2	680.1	669.9	659.6	649.4	634.1	618.7	603.4
72.5°	864.2	864.2	864.2	854.0	843.7	833.5	823.3	807.9	792.6	772.1	751.7
70°	1022.7	1022.7	1022.7	1012.5	1002.2	992.0	976.7	961.3	940.9	920.4	900.0
67.5°	1186.3	1186.3	1186.3	1171.0	1160.8	1150.5	1135.2	1114.7	1094.3	1068.7	1043.2
65°	1319.3	1319.3	1314.2	1309.1	1298.8	1283.5	1273.3	1252.8	1232.4	1211.9	1186.3
62.5°	1442.0	1442.0	1436.9	1431.8	1421.6	1406.2	1390.9	1375.5	1355.1	1329.5	1303.9
60°	1544.3	1544.3	1539.2	1534.0	1523.8	1513.6	1498.3	1482.9	1462.5	1442.0	1416.4
57.5°	1646.5	1646.5	1641.4	1636.3	1626.1	1610.7	1595.4	1580.1	1559.6	1534.0	1508.5
55°	1753.9	1753.9	1748.8	1738.6	1728.4	1713.0	1697.7	1677.2	1651.7	1626.1	1600.5
52.5°	1881.8	1881.8	1871.5	1861.3	1846.0	1830.6	1805.1	1779.5	1748.8	1718.1	1687.5
50°	2050.5	2050.5	2040.3	2024.9	1999.4	1973.8	1943.1	1902.2	1866.4	1825.5	1784.6
47.5°	2301.1	2301.1	2280.6	2255.0	2219.3	2178.3	2122.1	2060.7	2009.6	1958.5	1897.1
45°	2669.2	2669.2	2638.6	2597.7	2541.4	2469.8	2388.0	2301.1	2214.1	2127.2	2040.3
42.5°	3267.5	3267.5	3211.3	3139.7	3042.5	2919.8	2766.4	2623.2	2500.5	2362.4	2244.8
40°	4300.4	4300.4	4193.1	4060.1	3876.0	3640.8	3359.6	3134.6	2919.8	2679.5	2515.8
37.5°	6136.2	6136.2	5926.5	5670.9	5312.9	4862.9	4320.9	3957.8	3559.0	3180.6	2904.5
35°	9378.1	9378.1	8974.2	8478.2	7787.8	6918.6	5993.0	5307.8	4545.9	3963.0	3446.5
32.5°	14696.2	14696.2	13970.1	13075.2	11842.8	10283.2	8800.3	7496.4	6136.2	5169.7	4239.1
30°	21016.5	21016.5	20065.3	18894.4	17288.7	15263.8	13151.9	10835.5	8687.8	6964.6	5558.4
27.5°	27551.5	27280.5	26462.3	25127.7	23297.1	21016.5	18383.0	15391.6	12487.1	9449.7	7440.1
25°	34311.5	33994.5	33058.7	31524.7	29428.1	26845.8	23880.0	20535.8	16951.2	13330.9	9853.7
22.5°	41143.2	40785.2	39721.6	37988.1	35635.9	32741.7	29382.1	25664.6	21660.8	17477.9	13330.9
20°	47458.3	47079.9	45965.2	44160.1	41726.1	38550.6	34817.8	30696.3	26268.0	21660.8	16951.2
17.5°	52745.7	52382.6	51308.8	49585.5	47458.3	43945.3	40064.2	35533.7	30696.3	25664.6	20535.8
15°	56606.4	56294.4	55379.1	53932.0	51763.9	48654.9	44702.1	40064.2	34817.8	29382.1	23880.0
12.5°	59168.2	58917.7	58196.7	57071.7	55128.6	52520.7	48654.9	43945.3	38550.6	32741.7	26845.8
10°	60155.1	60032.4	59694.9	59178.4	57521.7	55128.6	51763.9	47458.3	41726.1	35635.9	29428.1
7.5°	59894.3	59935.2	60052.8	59919.9	59178.4	57071.7	53932.0	49585.5	44160.1	37988.1	31524.7
5°	58963.7	59183.6	59730.7	60052.8	59694.9	58196.7	55379.1	51308.8	45965.2	39721.6	33058.7
2.5°	58135.3	58477.9	59183.6	59935.2	60032.4	58917.7	56294.4	52382.6	47079.9	40785.2	33994.5
0°	57726.2	58135.3	58963.7	59894.3	60155.1	59168.2	56606.4	52745.7	47458.3	41143.2	34311.5

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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°	61.4	56.2	56.2	56.2	51.1	51.1	51.1	46.0	46.0	40.9	40.9
85°	143.2	138.1	133.0	127.8	122.7	117.6	112.5	107.4	102.3	92.0	86.9
82.5°	230.1	225.0	219.9	209.7	204.5	194.3	184.1	173.9	163.6	158.5	148.3
80°	332.4	322.1	311.9	301.7	286.4	271.0	260.8	245.4	235.2	219.9	209.7
77.5°	450.0	434.6	419.3	398.9	383.5	368.2	347.7	332.4	311.9	291.5	271.0
75°	582.9	562.5	536.9	516.5	496.0	470.4	444.9	419.3	393.7	368.2	342.6
72.5°	726.1	700.5	675.0	649.4	618.7	582.9	552.3	516.5	485.8	455.1	419.3
70°	874.4	843.7	813.0	782.4	746.6	705.7	669.9	629.0	588.1	547.1	506.2
67.5°	1012.5	981.8	946.0	915.3	874.4	833.5	787.5	741.5	695.4	644.3	593.2
65°	1155.6	1119.9	1078.9	1038.0	997.1	951.1	905.1	859.1	802.8	746.6	695.4
62.5°	1273.3	1242.6	1206.8	1165.9	1119.9	1068.7	1022.7	961.3	905.1	848.8	782.4
60°	1385.8	1350.0	1319.3	1273.3	1232.4	1186.3	1130.1	1068.7	1007.4	940.9	879.5
57.5°	1482.9	1452.2	1416.4	1375.5	1329.5	1283.5	1232.4	1176.1	1104.5	1038.0	966.4
55°	1569.8	1534.0	1498.3	1462.5	1421.6	1370.4	1319.3	1263.0	1201.7	1130.1	1053.4
52.5°	1656.8	1621.0	1580.1	1544.3	1498.3	1452.2	1401.1	1344.8	1283.5	1217.0	1135.2
50°	1743.7	1702.8	1661.9	1615.9	1569.8	1523.8	1472.7	1421.6	1355.1	1288.6	1217.0
47.5°	1846.0	1794.8	1743.7	1692.6	1646.5	1590.3	1539.2	1482.9	1426.7	1355.1	1283.5
45°	1973.8	1897.1	1835.7	1774.4	1718.1	1661.9	1600.5	1544.3	1482.9	1421.6	1344.8
42.5°	2132.3	2030.1	1948.2	1866.4	1794.8	1728.4	1667.0	1600.5	1539.2	1472.7	1401.1
40°	2347.1	2209.0	2076.1	1973.8	1881.8	1799.9	1728.4	1661.9	1590.3	1523.8	1452.2
37.5°	2628.3	2434.0	2249.9	2101.6	1984.0	1881.8	1794.8	1718.1	1646.5	1569.8	1498.3
35°	3052.8	2715.3	2480.0	2265.3	2101.6	1973.8	1866.4	1774.4	1692.6	1615.9	1544.3
32.5°	3651.0	3129.5	2751.1	2480.0	2249.9	2076.1	1948.2	1835.7	1743.7	1661.9	1580.1
30°	4438.5	3717.5	3129.5	2715.3	2434.0	2209.0	2030.1	1897.1	1794.8	1702.8	1621.0
27.5°	5686.2	4438.5	3651.0	3052.8	2628.3	2347.1	2132.3	1973.8	1846.0	1743.7	1656.8
25°	7440.1	5558.4	4239.1	3446.5	2904.5	2515.8	2244.8	2040.3	1897.1	1784.6	1687.5
22.5°	9449.7	6964.6	5169.7	3963.0	3180.6	2679.5	2362.4	2127.2	1958.5	1825.5	1718.1
20°	12487.1	8687.8	6136.2	4545.9	3559.0	2919.8	2500.5	2214.1	2009.6	1866.4	1748.8
17.5°	15391.6	10835.5	7496.4	5307.8	3957.8	3134.6	2623.2	2301.1	2060.7	1902.2	1779.5
15°	18383.0	13151.9	8800.3	5993.0	4320.9	3359.6	2766.4	2388.0	2122.1	1943.1	1805.1
12.5°	21016.5	15263.8	10283.2	6918.6	4862.9	3640.8	2919.8	2469.8	2178.3	1973.8	1830.6
10°	23297.1	17288.7	11842.8	7787.8	5312.9	3876.0	3042.5	2541.4	2219.3	1999.4	1846.0
7.5°	25127.7	18894.4	13075.2	8478.2	5670.9	4060.1	3139.7	2597.7	2255.0	2024.9	1861.3
5°	26462.3	20065.3	13970.1	8974.2	5926.5	4193.1	3211.3	2638.6	2280.6	2040.3	1871.5
2.5°	27280.5	21016.5	14696.2	9378.1	6136.2	4300.4	3267.5	2669.2	2301.1	2050.5	1881.8
0°	27551.5	21016.5	14696.2	9378.1	6136.2	4300.4	3267.5	2669.2	2301.1	2050.5	1881.8

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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°	35.8	35.8	30.7	30.7	25.6	25.6	20.5	20.5	15.3	15.3	10.2
85°	81.8	71.6	66.5	61.4	56.2	51.1	46.0	40.9	35.8	30.7	25.6
82.5°	138.1	127.8	112.5	102.3	92.0	81.8	66.5	61.4	51.1	40.9	35.8
80°	194.3	179.0	163.6	148.3	133.0	117.6	102.3	86.9	71.6	56.2	46.0
77.5°	250.6	230.1	214.8	194.3	173.9	153.4	133.0	112.5	92.0	71.6	56.2
75°	317.0	291.5	265.9	240.3	214.8	189.2	168.7	143.2	117.6	92.0	71.6
72.5°	388.6	352.8	322.1	291.5	255.7	230.1	199.4	173.9	143.2	112.5	86.9
70°	465.3	424.4	383.5	342.6	306.8	265.9	235.2	199.4	168.7	133.0	102.3
67.5°	542.0	496.0	450.0	398.9	352.8	311.9	265.9	230.1	189.2	153.4	117.6
65°	634.1	572.7	516.5	460.2	404.0	352.8	306.8	255.7	214.8	173.9	133.0
62.5°	721.0	654.5	588.1	521.6	460.2	398.9	342.6	291.5	240.3	194.3	148.3
60°	807.9	736.3	659.6	588.1	516.5	450.0	383.5	322.1	265.9	214.8	163.6
57.5°	894.9	813.0	736.3	654.5	572.7	496.0	424.4	352.8	291.5	230.1	179.0
55°	971.6	894.9	807.9	721.0	634.1	542.0	465.3	388.6	317.0	250.6	194.3
52.5°	1053.4	966.4	879.5	782.4	695.4	593.2	506.2	419.3	342.6	271.0	209.7
50°	1130.1	1038.0	940.9	848.8	746.6	644.3	547.1	455.1	368.2	291.5	219.9
47.5°	1201.7	1104.5	1007.4	905.1	802.8	695.4	588.1	485.8	393.7	311.9	235.2
45°	1263.0	1176.1	1068.7	961.3	859.1	741.5	629.0	516.5	419.3	332.4	245.4
42.5°	1319.3	1232.4	1130.1	1022.7	905.1	787.5	669.9	552.3	444.9	347.7	260.8
40°	1370.4	1283.5	1186.3	1068.7	951.1	833.5	705.7	582.9	470.4	368.2	271.0
37.5°	1421.6	1329.5	1232.4	1119.9	997.1	874.4	746.6	618.7	496.0	383.5	286.4
35°	1462.5	1375.5	1273.3	1165.9	1038.0	915.3	782.4	649.4	516.5	398.9	301.7
32.5°	1498.3	1416.4	1319.3	1206.8	1078.9	946.0	813.0	675.0	536.9	419.3	311.9
30°	1534.0	1452.2	1350.0	1242.6	1119.9	981.8	843.7	700.5	562.5	434.6	322.1
27.5°	1569.8	1482.9	1385.8	1273.3	1155.6	1012.5	874.4	726.1	582.9	450.0	332.4
25°	1600.5	1508.5	1416.4	1303.9	1186.3	1043.2	900.0	751.7	603.4	465.3	342.6
22.5°	1626.1	1534.0	1442.0	1329.5	1211.9	1068.7	920.4	772.1	618.7	475.6	352.8
20°	1651.7	1559.6	1462.5	1355.1	1232.4	1094.3	940.9	792.6	634.1	485.8	357.9
17.5°	1677.2	1580.1	1482.9	1375.5	1252.8	1114.7	961.3	807.9	649.4	496.0	368.2
15°	1697.7	1595.4	1498.3	1390.9	1273.3	1135.2	976.7	823.3	659.6	506.2	373.3
12.5°	1713.0	1610.7	1513.6	1406.2	1283.5	1150.5	992.0	833.5	669.9	516.5	378.4
10°	1728.4	1626.1	1523.8	1421.6	1298.8	1160.8	1002.2	843.7	680.1	521.6	383.5
7.5°	1738.6	1636.3	1534.0	1431.8	1309.1	1171.0	1012.5	854.0	685.2	526.7	388.6
5°	1748.8	1641.4	1539.2	1436.9	1314.2	1186.3	1022.7	864.2	695.4	531.8	388.6
2.5°	1753.9	1646.5	1544.3	1442.0	1319.3	1186.3	1022.7	864.2	695.4	531.8	388.6
0°	1753.9	1646.5	1544.3	1442.0	1319.3	1186.3	1022.7	864.2	695.4	531.8	388.6

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.2	5.1	5.1	0.0
85°	15.3	10.2	5.1	0.0
82.5°	25.6	15.3	10.2	0.0
80°	35.8	25.6	10.2	0.0
77.5°	40.9	30.7	15.3	0.0
75°	51.1	35.8	15.3	0.0
72.5°	61.4	40.9	20.5	0.0
70°	66.5	46.0	20.5	0.0
67.5°	81.8	51.1	25.6	0.0
65°	92.0	56.2	25.6	0.0
62.5°	102.3	61.4	30.7	0.0
60°	112.5	66.5	30.7	0.0
57.5°	127.8	71.6	35.8	0.0
55°	138.1	81.8	35.8	0.0
52.5°	148.3	86.9	40.9	0.0
50°	158.5	92.0	40.9	0.0
47.5°	163.6	102.3	46.0	0.0
45°	173.9	107.4	46.0	0.0
42.5°	184.1	112.5	51.1	0.0
40°	194.3	117.6	51.1	0.0
37.5°	204.5	122.7	51.1	0.0
35°	209.7	127.8	56.2	0.0
32.5°	219.9	133.0	56.2	0.0
30°	225.0	138.1	56.2	0.0
27.5°	230.1	143.2	61.4	0.0
25°	235.2	143.2	61.4	0.0
22.5°	240.3	148.3	61.4	0.0
20°	245.4	153.4	61.4	0.0
17.5°	250.6	153.4	61.4	0.0
15°	255.7	158.5	66.5	0.0
12.5°	260.8	158.5	66.5	0.0
10°	260.8	163.6	66.5	0.0
7.5°	265.9	163.6	66.5	0.0
5°	265.9	163.6	66.5	0.0
2.5°	265.9	163.6	66.5	0.0
0°	265.9	163.6	66.5	0.0

(END OF REPORT)