

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: P623636

Luminaire Tested: **IFLD-L-SA8D-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623636
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	52930.2 lumens	Max Intensity:	64682.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	108.4 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:	26307.7 lumens	Field Lumens:	34213.9 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

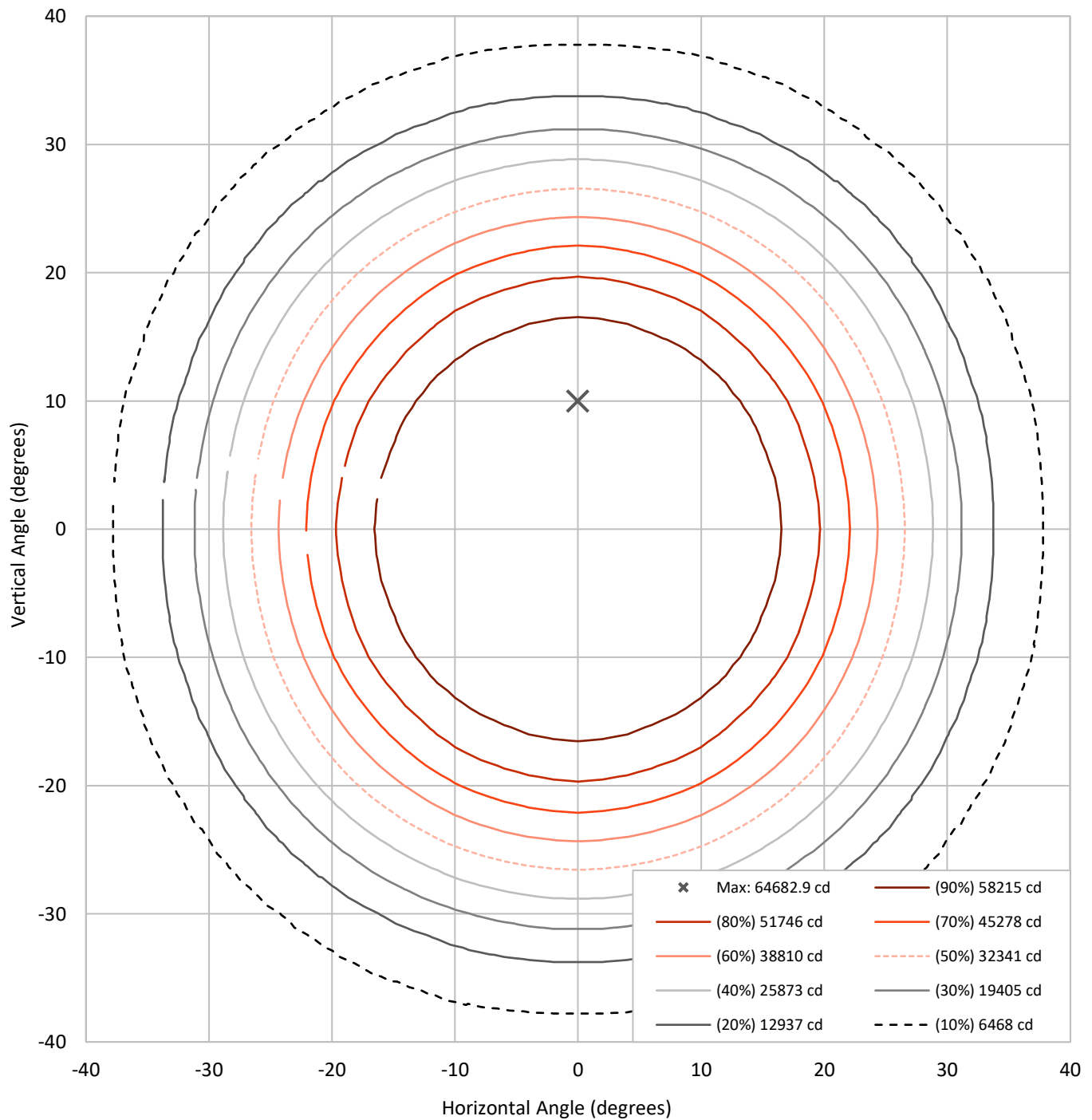
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Candela Plot



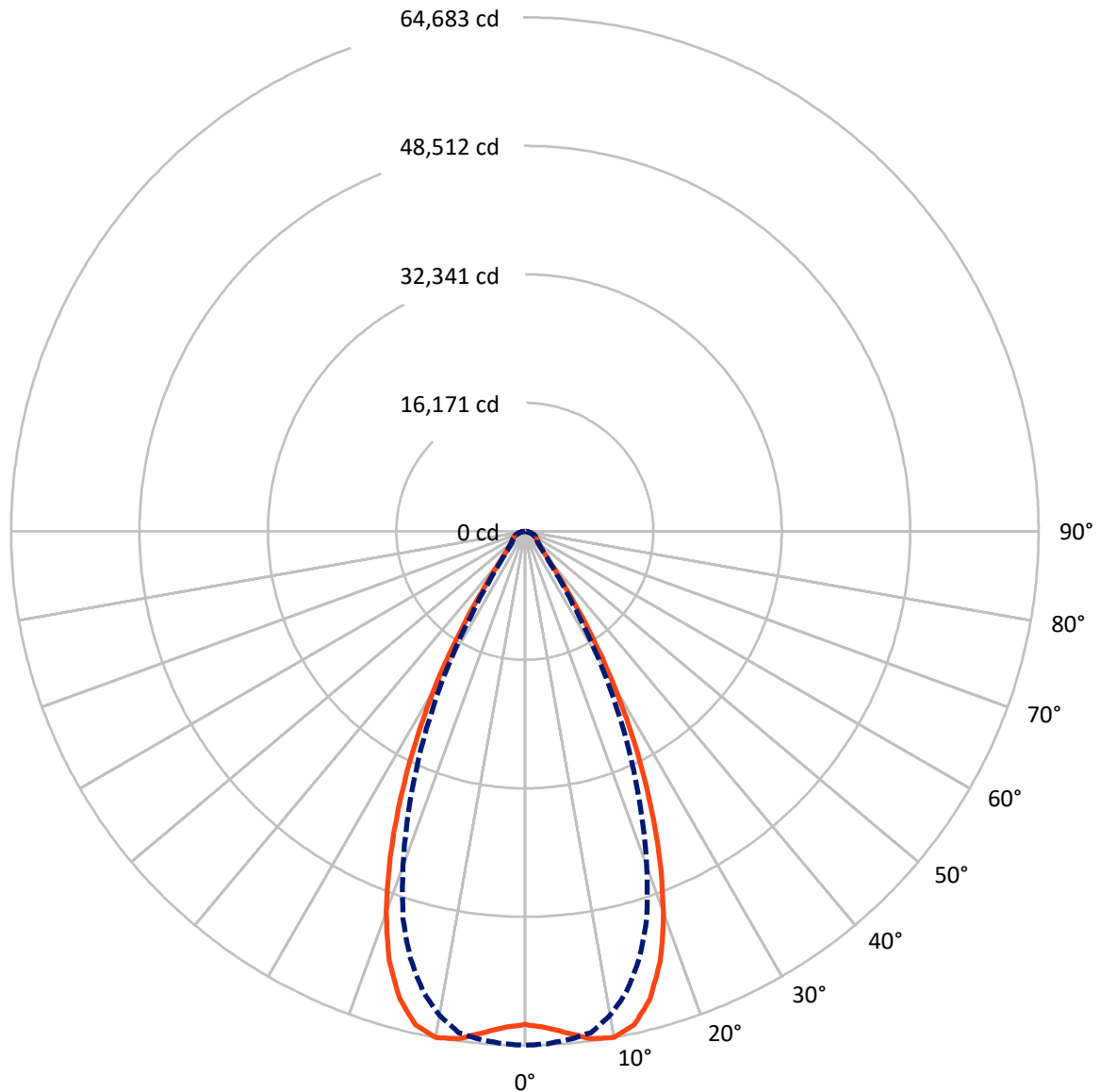
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Lumen Table

90																			
80	1.5	11.6		30.3		48.8		56.6		48.8		30.3		11.6		1.5			
70																			
60	5.3	5.7	12.0	19.8	27.8	34.7	39.7	42.4	42.4	39.7	34.7	27.8	19.8	12.0	5.7	5.3			
50		8.9	18.3	29.0	39.0	47.4	53.8	57.4	57.4	53.8	47.4	39.0	29.0	18.3	8.9				
40	9.4	11.9	23.6	35.7	47.9	62.0	78.5	91.2	91.2	78.5	62.0	47.9	35.7	23.6	11.9	9.4			
30		14.5	27.4	41.4	62.8	111.8	218.5	329.6	329.6	218.5	111.8	62.8	41.4	27.4	14.5				
20	12.5	16.4	30.1	48.6	101.5	323.4	749.4	1063.6	1063.6	749.4	323.4	101.5	48.6	30.1	16.4	12.5			
10		17.6	32.1	57.9	187.3	705.9	1381.0	1760.5	1760.5	1381.0	705.9	187.3	57.9	32.1	17.6				
0	13.7	18.2	33.2	65.4	274.9	972.3	1708.5	1937.5	1937.5	1708.5	972.3	274.9	65.4	33.2	18.2	13.7			
-10		18.2	33.2	65.4	274.9	972.3	1708.5	1937.5	1937.5	1708.5	972.3	274.9	65.4	33.2	18.2				
-20	12.5	17.6	32.1	57.9	187.3	705.9	1381.0	1760.5	1760.5	1381.0	705.9	187.3	57.9	32.1	17.6	12.5			
-30		16.4	30.1	48.6	101.5	323.4	749.4	1063.6	1063.6	749.4	323.4	101.5	48.6	30.1	16.4				
-40	9.4	14.5	27.4	41.4	62.8	111.8	218.5	329.6	329.6	218.5	111.8	62.8	41.4	27.4	14.5	9.4			
-50		11.9	23.6	35.7	47.9	62.0	78.5	91.2	91.2	78.5	62.0	47.9	35.7	23.6	11.9				
-60	5.3	8.9	18.3	29.0	39.0	47.4	53.8	57.4	57.4	53.8	47.4	39.0	29.0	18.3	8.9	5.3			
-70		5.7	12.0	19.8	27.8	34.7	39.7	42.4	42.4	39.7	34.7	27.8	19.8	12.0	5.7				
-80	1.5	11.6		30.3		48.8		56.6		48.8		30.3		11.6		1.5			
-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

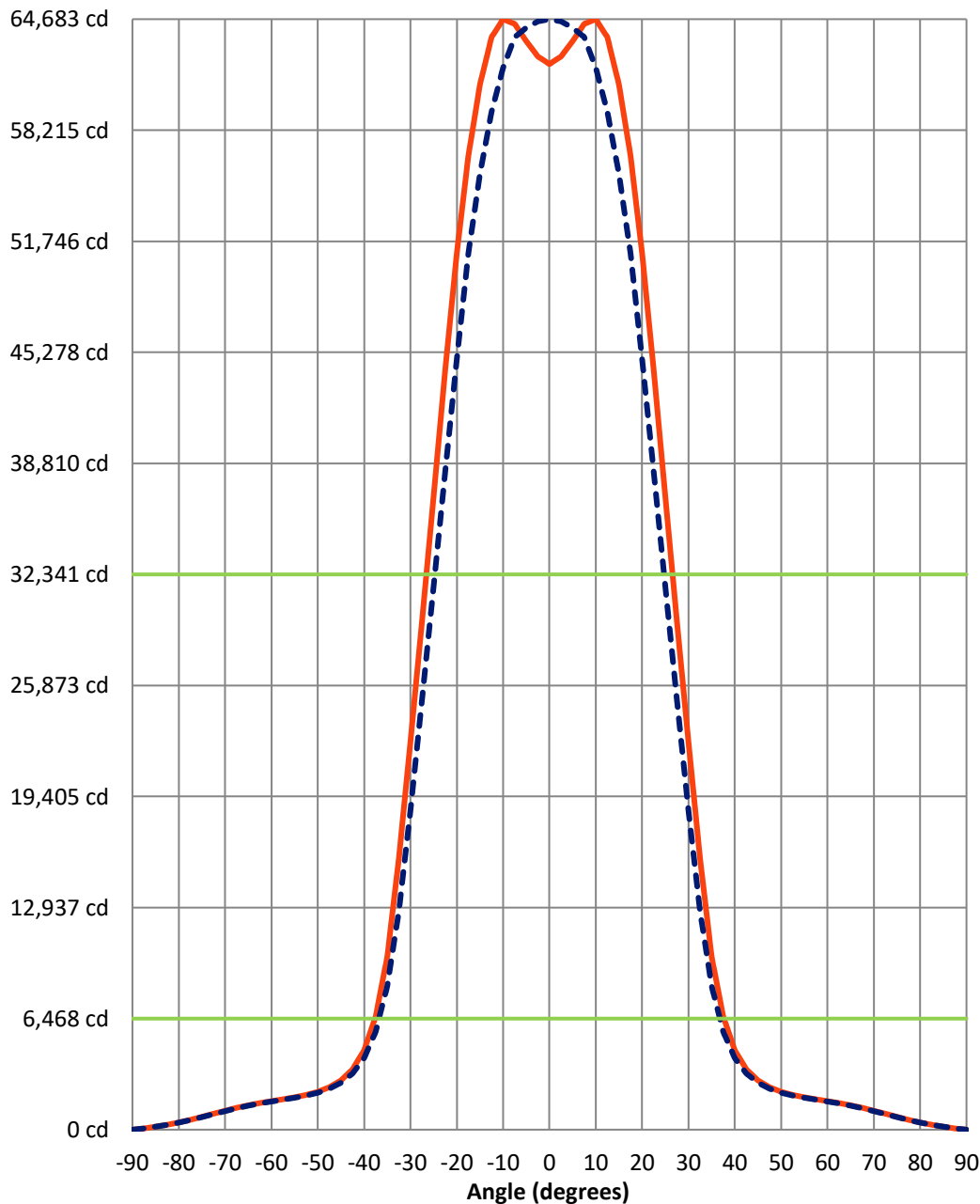


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 26307.7
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 34213.9
Efficiency: 64.6%

Spill:

Lumens: 18716.3
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°	71.5	71.5	71.5	71.5	71.5	71.5	71.5	66.0	66.0	66.0	66.0
85°	175.9	175.9	175.9	175.9	175.9	170.4	170.4	165.0	165.0	159.5	154.0
82.5°	285.9	285.9	285.9	285.9	280.4	280.4	274.9	269.4	263.9	258.4	252.9
80°	417.9	417.9	417.9	417.9	412.4	406.9	401.4	395.9	384.9	379.4	368.4
77.5°	571.8	571.8	571.8	566.3	560.8	555.3	544.3	533.3	522.3	511.3	500.4
75°	747.8	747.8	747.8	736.8	731.3	720.3	709.3	698.3	681.8	665.3	648.8
72.5°	929.2	929.2	929.2	918.2	907.2	896.2	885.2	868.7	852.2	830.3	808.3
70°	1099.7	1099.7	1099.7	1088.7	1077.7	1066.7	1050.2	1033.7	1011.7	989.7	967.7
67.5°	1275.6	1275.6	1275.6	1259.1	1248.1	1237.1	1220.6	1198.6	1176.7	1149.2	1121.7
65°	1418.6	1418.6	1413.1	1407.6	1396.6	1380.1	1369.1	1347.1	1325.1	1303.1	1275.6
62.5°	1550.5	1550.5	1545.0	1539.5	1528.5	1512.1	1495.6	1479.1	1457.1	1429.6	1402.1
60°	1660.5	1660.5	1655.0	1649.5	1638.5	1627.5	1611.0	1594.5	1572.5	1550.5	1523.1
57.5°	1770.5	1770.5	1765.0	1759.5	1748.5	1732.0	1715.5	1699.0	1677.0	1649.5	1622.0
55°	1885.9	1885.9	1880.4	1869.4	1858.5	1842.0	1825.5	1803.5	1776.0	1748.5	1721.0
52.5°	2023.4	2023.4	2012.4	2001.4	1984.9	1968.4	1940.9	1913.4	1880.4	1847.5	1814.5
50°	2204.8	2204.8	2193.9	2177.4	2149.9	2122.4	2089.4	2045.4	2006.9	1962.9	1918.9
47.5°	2474.3	2474.3	2452.3	2424.8	2386.3	2342.3	2281.8	2215.8	2160.9	2105.9	2039.9
45°	2870.2	2870.2	2837.2	2793.2	2732.7	2655.7	2567.7	2474.3	2380.8	2287.3	2193.9
42.5°	3513.5	3513.5	3453.0	3376.0	3271.5	3139.6	2974.6	2820.7	2688.7	2540.3	2413.8
40°	4624.1	4624.1	4508.7	4365.7	4167.8	3914.8	3612.4	3370.5	3139.6	2881.2	2705.2
37.5°	6598.1	6598.1	6372.6	6097.7	5712.8	5229.0	4646.1	4255.7	3826.9	3420.0	3123.1
35°	10084.0	10084.0	9649.7	9116.3	8374.0	7439.3	6444.1	5707.3	4888.1	4261.2	3705.9
32.5°	15802.3	15802.3	15021.6	14059.4	12734.2	11057.2	9462.7	8060.6	6598.1	5558.9	4558.2
30°	22598.3	22598.3	21575.6	20316.5	18590.0	16412.7	14141.8	11651.1	9341.7	7488.8	5976.7
27.5°	29625.3	29333.9	28454.1	27019.0	25050.6	22598.3	19766.7	16550.1	13427.0	10161.0	8000.1
25°	36894.1	36553.2	35547.0	33897.5	31643.2	28866.5	25677.4	22081.5	18227.1	14334.3	10595.4
22.5°	44240.0	43855.1	42711.4	40847.5	38318.2	35206.1	31593.7	27596.4	23291.1	18793.5	14334.3
20°	51030.5	50623.6	49424.9	47484.0	44866.8	41452.3	37438.5	33006.8	28245.2	23291.1	18227.1
17.5°	56715.8	56325.4	55170.7	53317.8	51030.5	47253.1	43079.8	38208.2	33006.8	27596.4	22081.5
15°	60867.1	60531.7	59547.4	57991.4	55660.1	52317.1	48066.8	43079.8	37438.5	31593.7	25677.4
12.5°	63621.7	63352.3	62577.1	61367.4	59278.0	56473.9	52317.1	47253.1	41452.3	35206.1	28866.5
10°	64682.9	64551.0	64188.1	63632.7	61851.3	59278.0	55660.1	51030.5	44866.8	38318.2	31643.2
7.5°	64402.5	64446.5	64573.0	64430.0	63632.7	61367.4	57991.4	53317.8	47484.0	40847.5	33897.5
5°	63401.8	63638.2	64226.6	64573.0	64188.1	62577.1	59547.4	55170.7	49424.9	42711.4	35547.0
2.5°	62511.1	62879.5	63638.2	64446.5	64551.0	63352.3	60531.7	56325.4	50623.6	43855.1	36553.2
0°	62071.2	62511.1	63401.8	64402.5	64682.9	63621.7	60867.1	56715.8	51030.5	44240.0	36894.1

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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°	66.0	60.5	60.5	60.5	55.0	55.0	55.0	49.5	49.5	44.0	44.0
85°	154.0	148.5	143.0	137.5	132.0	126.5	121.0	115.5	110.0	99.0	93.5
82.5°	247.4	241.9	236.4	225.4	219.9	208.9	197.9	186.9	175.9	170.4	159.5
80°	357.4	346.4	335.4	324.4	307.9	291.4	280.4	263.9	252.9	236.4	225.4
77.5°	483.9	467.4	450.9	428.9	412.4	395.9	373.9	357.4	335.4	313.4	291.4
75°	626.8	604.8	577.3	555.3	533.3	505.9	478.4	450.9	423.4	395.9	368.4
72.5°	780.8	753.3	725.8	698.3	665.3	626.8	593.8	555.3	522.3	489.4	450.9
70°	940.2	907.2	874.2	841.3	802.8	758.8	720.3	676.3	632.3	588.3	544.3
67.5°	1088.7	1055.7	1017.2	984.2	940.2	896.2	846.8	797.3	747.8	692.8	637.8
65°	1242.6	1204.1	1160.2	1116.2	1072.2	1022.7	973.2	923.7	863.2	802.8	747.8
62.5°	1369.1	1336.1	1297.6	1253.6	1204.1	1149.2	1099.7	1033.7	973.2	912.7	841.3
60°	1490.1	1451.6	1418.6	1369.1	1325.1	1275.6	1215.1	1149.2	1083.2	1011.7	945.7
57.5°	1594.5	1561.5	1523.1	1479.1	1429.6	1380.1	1325.1	1264.6	1187.6	1116.2	1039.2
55°	1688.0	1649.5	1611.0	1572.5	1528.5	1473.6	1418.6	1358.1	1292.1	1215.1	1132.7
52.5°	1781.5	1743.0	1699.0	1660.5	1611.0	1561.5	1506.6	1446.1	1380.1	1308.6	1220.6
50°	1874.9	1831.0	1787.0	1737.5	1688.0	1638.5	1583.5	1528.5	1457.1	1385.6	1308.6
47.5°	1984.9	1929.9	1874.9	1820.0	1770.5	1710.0	1655.0	1594.5	1534.0	1457.1	1380.1
45°	2122.4	2039.9	1973.9	1907.9	1847.5	1787.0	1721.0	1660.5	1594.5	1528.5	1446.1
42.5°	2292.8	2182.9	2094.9	2006.9	1929.9	1858.5	1792.5	1721.0	1655.0	1583.5	1506.6
40°	2523.8	2375.3	2232.3	2122.4	2023.4	1935.4	1858.5	1787.0	1710.0	1638.5	1561.5
37.5°	2826.2	2617.2	2419.3	2259.8	2133.4	2023.4	1929.9	1847.5	1770.5	1688.0	1611.0
35°	3282.5	2919.6	2666.7	2435.8	2259.8	2122.4	2006.9	1907.9	1820.0	1737.5	1660.5
32.5°	3925.8	3365.0	2958.1	2666.7	2419.3	2232.3	2094.9	1973.9	1874.9	1787.0	1699.0
30°	4772.6	3997.3	3365.0	2919.6	2617.2	2375.3	2182.9	2039.9	1929.9	1831.0	1743.0
27.5°	6114.2	4772.6	3925.8	3282.5	2826.2	2523.8	2292.8	2122.4	1984.9	1874.9	1781.5
25°	8000.1	5976.7	4558.2	3705.9	3123.1	2705.2	2413.8	2193.9	2039.9	1918.9	1814.5
22.5°	10161.0	7488.8	5558.9	4261.2	3420.0	2881.2	2540.3	2287.3	2105.9	1962.9	1847.5
20°	13427.0	9341.7	6598.1	4888.1	3826.9	3139.6	2688.7	2380.8	2160.9	2006.9	1880.4
17.5°	16550.1	11651.1	8060.6	5707.3	4255.7	3370.5	2820.7	2474.3	2215.8	2045.4	1913.4
15°	19766.7	14141.8	9462.7	6444.1	4646.1	3612.4	2974.6	2567.7	2281.8	2089.4	1940.9
12.5°	22598.3	16412.7	11057.2	7439.3	5229.0	3914.8	3139.6	2655.7	2342.3	2122.4	1968.4
10°	25050.6	18590.0	12734.2	8374.0	5712.8	4167.8	3271.5	2732.7	2386.3	2149.9	1984.9
7.5°	27019.0	20316.5	14059.4	9116.3	6097.7	4365.7	3376.0	2793.2	2424.8	2177.4	2001.4
5°	28454.1	21575.6	15021.6	9649.7	6372.6	4508.7	3453.0	2837.2	2452.3	2193.9	2012.4
2.5°	29333.9	22598.3	15802.3	10084.0	6598.1	4624.1	3513.5	2870.2	2474.3	2204.8	2023.4
0°	29625.3	22598.3	15802.3	10084.0	6598.1	4624.1	3513.5	2870.2	2474.3	2204.8	2023.4

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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°	38.5	38.5	33.0	33.0	27.5	27.5	22.0	22.0	16.5	16.5	11.0
85°	88.0	77.0	71.5	66.0	60.5	55.0	49.5	44.0	38.5	33.0	27.5
82.5°	148.5	137.5	121.0	110.0	99.0	88.0	71.5	66.0	55.0	44.0	38.5
80°	208.9	192.4	175.9	159.5	143.0	126.5	110.0	93.5	77.0	60.5	49.5
77.5°	269.4	247.4	230.9	208.9	186.9	165.0	143.0	121.0	99.0	77.0	60.5
75°	340.9	313.4	285.9	258.4	230.9	203.4	181.4	154.0	126.5	99.0	77.0
72.5°	417.9	379.4	346.4	313.4	274.9	247.4	214.4	186.9	154.0	121.0	93.5
70°	500.4	456.4	412.4	368.4	329.9	285.9	252.9	214.4	181.4	143.0	110.0
67.5°	582.8	533.3	483.9	428.9	379.4	335.4	285.9	247.4	203.4	165.0	126.5
65°	681.8	615.8	555.3	494.9	434.4	379.4	329.9	274.9	230.9	186.9	143.0
62.5°	775.3	703.8	632.3	560.8	494.9	428.9	368.4	313.4	258.4	208.9	159.5
60°	868.7	791.8	709.3	632.3	555.3	483.9	412.4	346.4	285.9	230.9	175.9
57.5°	962.2	874.2	791.8	703.8	615.8	533.3	456.4	379.4	313.4	247.4	192.4
55°	1044.7	962.2	868.7	775.3	681.8	582.8	500.4	417.9	340.9	269.4	208.9
52.5°	1132.7	1039.2	945.7	841.3	747.8	637.8	544.3	450.9	368.4	291.4	225.4
50°	1215.1	1116.2	1011.7	912.7	802.8	692.8	588.3	489.4	395.9	313.4	236.4
47.5°	1292.1	1187.6	1083.2	973.2	863.2	747.8	632.3	522.3	423.4	335.4	252.9
45°	1358.1	1264.6	1149.2	1033.7	923.7	797.3	676.3	555.3	450.9	357.4	263.9
42.5°	1418.6	1325.1	1215.1	1099.7	973.2	846.8	720.3	593.8	478.4	373.9	280.4
40°	1473.6	1380.1	1275.6	1149.2	1022.7	896.2	758.8	626.8	505.9	395.9	291.4
37.5°	1528.5	1429.6	1325.1	1204.1	1072.2	940.2	802.8	665.3	533.3	412.4	307.9
35°	1572.5	1479.1	1369.1	1253.6	1116.2	984.2	841.3	698.3	555.3	428.9	324.4
32.5°	1611.0	1523.1	1418.6	1297.6	1160.2	1017.2	874.2	725.8	577.3	450.9	335.4
30°	1649.5	1561.5	1451.6	1336.1	1204.1	1055.7	907.2	753.3	604.8	467.4	346.4
27.5°	1688.0	1594.5	1490.1	1369.1	1242.6	1088.7	940.2	780.8	626.8	483.9	357.4
25°	1721.0	1622.0	1523.1	1402.1	1275.6	1121.7	967.7	808.3	648.8	500.4	368.4
22.5°	1748.5	1649.5	1550.5	1429.6	1303.1	1149.2	989.7	830.3	665.3	511.3	379.4
20°	1776.0	1677.0	1572.5	1457.1	1325.1	1176.7	1011.7	852.2	681.8	522.3	384.9
17.5°	1803.5	1699.0	1594.5	1479.1	1347.1	1198.6	1033.7	868.7	698.3	533.3	395.9
15°	1825.5	1715.5	1611.0	1495.6	1369.1	1220.6	1050.2	885.2	709.3	544.3	401.4
12.5°	1842.0	1732.0	1627.5	1512.1	1380.1	1237.1	1066.7	896.2	720.3	555.3	406.9
10°	1858.5	1748.5	1638.5	1528.5	1396.6	1248.1	1077.7	907.2	731.3	560.8	412.4
7.5°	1869.4	1759.5	1649.5	1539.5	1407.6	1259.1	1088.7	918.2	736.8	566.3	417.9
5°	1880.4	1765.0	1655.0	1545.0	1413.1	1275.6	1099.7	929.2	747.8	571.8	417.9
2.5°	1885.9	1770.5	1660.5	1550.5	1418.6	1275.6	1099.7	929.2	747.8	571.8	417.9
0°	1885.9	1770.5	1660.5	1550.5	1418.6	1275.6	1099.7	929.2	747.8	571.8	417.9

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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.0	5.5	5.5	0.0
85°	16.5	11.0	5.5	0.0
82.5°	27.5	16.5	11.0	0.0
80°	38.5	27.5	11.0	0.0
77.5°	44.0	33.0	16.5	0.0
75°	55.0	38.5	16.5	0.0
72.5°	66.0	44.0	22.0	0.0
70°	71.5	49.5	22.0	0.0
67.5°	88.0	55.0	27.5	0.0
65°	99.0	60.5	27.5	0.0
62.5°	110.0	66.0	33.0	0.0
60°	121.0	71.5	33.0	0.0
57.5°	137.5	77.0	38.5	0.0
55°	148.5	88.0	38.5	0.0
52.5°	159.5	93.5	44.0	0.0
50°	170.4	99.0	44.0	0.0
47.5°	175.9	110.0	49.5	0.0
45°	186.9	115.5	49.5	0.0
42.5°	197.9	121.0	55.0	0.0
40°	208.9	126.5	55.0	0.0
37.5°	219.9	132.0	55.0	0.0
35°	225.4	137.5	60.5	0.0
32.5°	236.4	143.0	60.5	0.0
30°	241.9	148.5	60.5	0.0
27.5°	247.4	154.0	66.0	0.0
25°	252.9	154.0	66.0	0.0
22.5°	258.4	159.5	66.0	0.0
20°	263.9	165.0	66.0	0.0
17.5°	269.4	165.0	66.0	0.0
15°	274.9	170.4	71.5	0.0
12.5°	280.4	170.4	71.5	0.0
10°	280.4	175.9	71.5	0.0
7.5°	285.9	175.9	71.5	0.0
5°	285.9	175.9	71.5	0.0
2.5°	285.9	175.9	71.5	0.0
0°	285.9	175.9	71.5	0.0

(END OF REPORT)