

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: P640069

Luminaire Tested: **IFLD-L-SA7A-AMB-U-LAM**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640069
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-AMB-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 1620K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

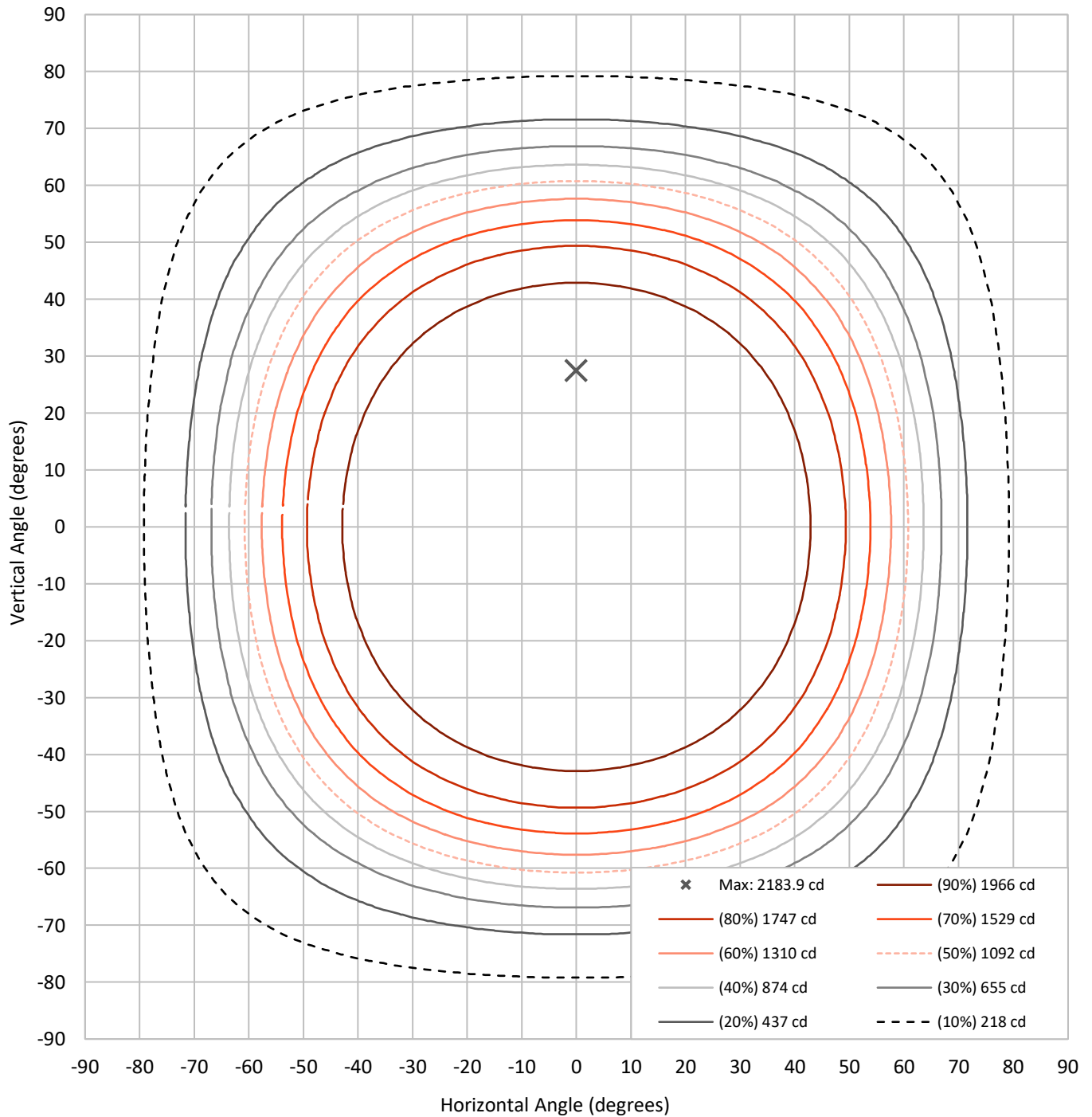
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7126.7 lumens	Max Intensity:	2183.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 27.5°V
Efficacy:	32.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	113.2°H x 121.5°V	Field Angle (10%):	155.5°H x 158.4°V
Beam Lumens:	4473 lumens	Field Lumens:	5261.6 lumens
Beam Efficiency:	62.8%	Field Efficiency:	73.8%
Input Watts (W):	217.6		
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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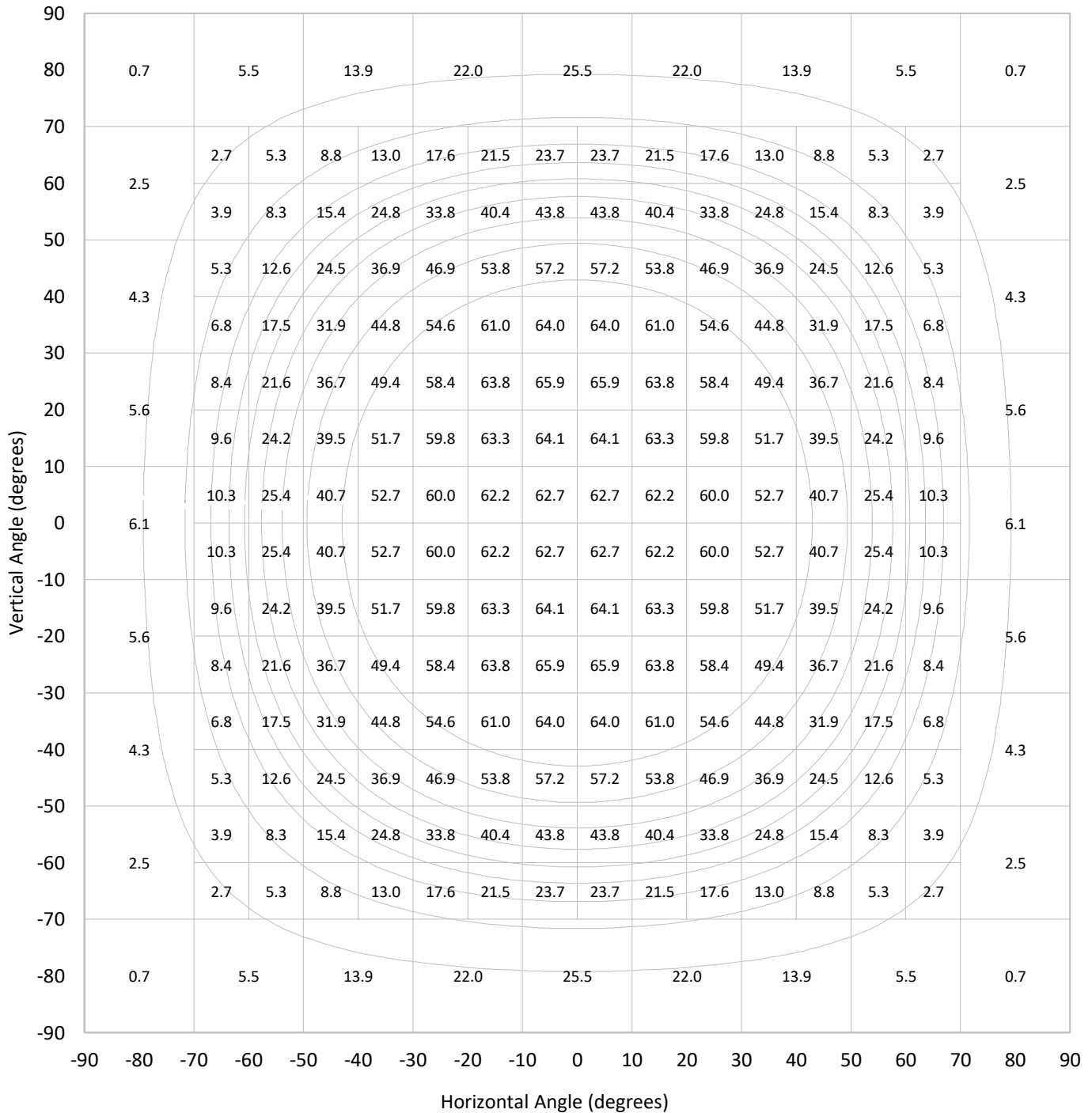
Iso-Candela Plot





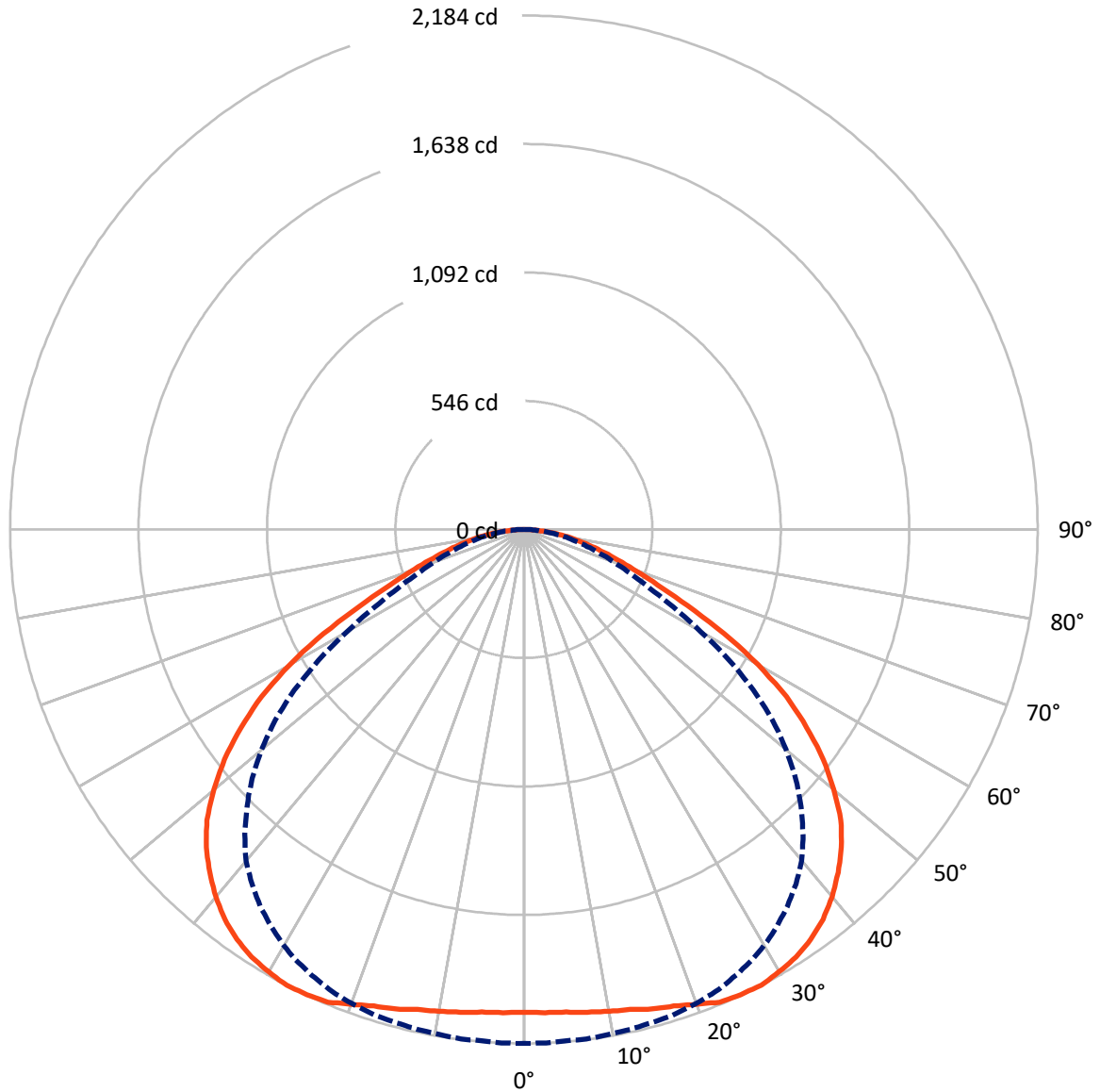
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Lumen Table



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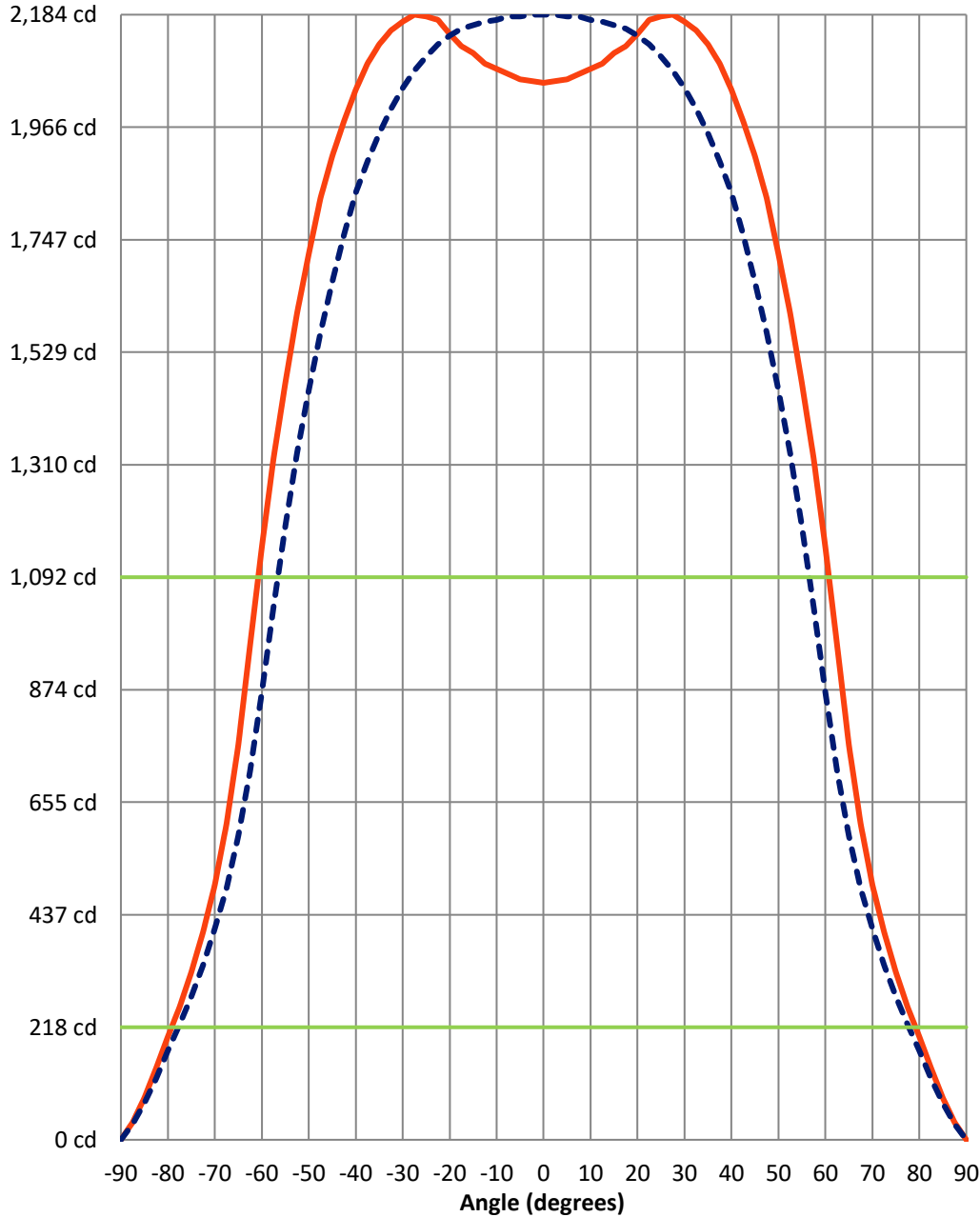
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 27.5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 113.2°
 V Angle: 121.5°
 Lumens: 4473
 Efficiency: 62.8%

Field:
 H Angle: 155.5°
 V Angle: 158.4°
 Lumens: 5261.6
 Efficiency: 73.8%

Spill:
 Lumens: 1865
 Efficiency: 26.2%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 27.5-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°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	30.5	30.5	30.5
85°	81.4	81.4	81.4	81.4	81.4	78.0	78.0	78.0	74.6	74.6	71.2
82.5°	139.0	139.0	139.0	139.0	135.6	135.6	132.3	132.3	128.9	125.5	122.1
80°	200.1	200.1	200.1	200.1	196.7	193.3	193.3	189.9	186.5	179.7	176.3
77.5°	257.7	257.7	257.7	254.3	254.3	250.9	247.6	244.2	240.8	234.0	230.6
75°	325.5	325.5	325.5	322.2	318.8	315.4	312.0	305.2	301.8	295.0	288.2
72.5°	403.5	403.5	403.5	400.1	393.4	390.0	383.2	376.4	369.6	359.5	349.3
70°	495.1	495.1	495.1	488.3	484.9	478.1	468.0	461.2	447.6	437.5	423.9
67.5°	613.8	613.8	613.8	603.6	596.8	586.7	576.5	562.9	546.0	529.0	508.7
65°	766.4	766.4	759.6	752.8	742.7	729.1	712.1	691.8	668.0	644.3	613.8
62.5°	959.7	959.7	949.5	939.3	925.8	905.4	881.7	854.6	820.6	786.7	749.4
60°	1149.6	1149.6	1139.4	1129.2	1112.3	1091.9	1064.8	1034.3	1000.4	959.7	915.6
57.5°	1322.5	1322.5	1312.4	1302.2	1285.2	1261.5	1237.8	1207.2	1173.3	1132.6	1085.2
55°	1468.3	1468.3	1458.2	1448.0	1434.4	1414.1	1390.4	1359.8	1329.3	1288.6	1241.1
52.5°	1604.0	1604.0	1593.8	1583.6	1566.7	1546.3	1522.6	1495.5	1461.6	1424.3	1380.2
50°	1719.3	1719.3	1712.5	1698.9	1685.4	1668.4	1644.7	1617.6	1587.0	1546.3	1502.3
47.5°	1827.8	1827.8	1817.6	1807.5	1793.9	1773.5	1749.8	1722.7	1692.2	1654.9	1614.2
45°	1909.2	1909.2	1902.4	1892.2	1882.1	1865.1	1848.1	1827.8	1790.5	1753.2	1712.5
42.5°	1977.0	1977.0	1970.2	1963.4	1949.9	1936.3	1919.4	1899.0	1871.9	1841.4	1804.1
40°	2038.0	2038.0	2031.3	2024.5	2014.3	2000.7	1983.8	1960.1	1936.3	1909.2	1875.3
37.5°	2088.9	2088.9	2082.1	2075.4	2065.2	2055.0	2038.0	2017.7	1994.0	1966.8	1936.3
35°	2126.2	2126.2	2122.8	2116.0	2109.3	2099.1	2085.5	2065.2	2044.8	2017.7	1987.2
32.5°	2153.3	2153.3	2150.0	2146.6	2139.8	2129.6	2119.4	2105.9	2088.9	2061.8	2034.7
30°	2170.3	2170.3	2166.9	2163.5	2160.1	2153.3	2146.6	2133.0	2119.4	2099.1	2072.0
27.5°	2183.9	2183.9	2180.5	2180.5	2173.7	2170.3	2163.5	2156.7	2143.2	2126.2	2102.5
25°	2180.5	2180.5	2180.5	2180.5	2183.9	2183.9	2177.1	2170.3	2160.1	2146.6	2129.6
22.5°	2173.7	2173.7	2173.7	2177.1	2180.5	2180.5	2183.9	2180.5	2170.3	2160.1	2146.6
20°	2146.6	2146.6	2153.3	2160.1	2170.3	2177.1	2180.5	2183.9	2180.5	2170.3	2160.1
17.5°	2122.8	2122.8	2129.6	2136.4	2146.6	2160.1	2173.7	2180.5	2183.9	2180.5	2170.3
15°	2109.3	2109.3	2112.7	2119.4	2126.2	2139.8	2156.7	2173.7	2180.5	2183.9	2177.1
12.5°	2088.9	2092.3	2095.7	2105.9	2116.0	2122.8	2139.8	2160.1	2177.1	2180.5	2183.9
10°	2078.7	2078.7	2082.1	2088.9	2102.5	2116.0	2126.2	2146.6	2170.3	2180.5	2183.9
7.5°	2068.6	2068.6	2075.4	2082.1	2088.9	2105.9	2119.4	2136.4	2160.1	2177.1	2180.5
5°	2058.4	2061.8	2065.2	2075.4	2082.1	2095.7	2112.7	2129.6	2153.3	2173.7	2180.5
2.5°	2055.0	2055.0	2061.8	2068.6	2078.7	2092.3	2109.3	2122.8	2146.6	2173.7	2180.5
0°	2051.6	2055.0	2058.4	2068.6	2078.7	2088.9	2109.3	2122.8	2146.6	2173.7	2180.5



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 CATALOG NUMBER: IFLD-L-SA7A-AMB-U-LAM

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°	30.5	30.5	27.1	27.1	27.1	27.1	23.7	23.7	23.7	20.3	20.3
85°	71.2	67.8	67.8	64.4	61.0	57.6	57.6	54.3	50.9	47.5	44.1
82.5°	118.7	115.3	111.9	108.5	101.7	98.3	95.0	88.2	81.4	78.0	74.6
80°	172.9	166.2	162.8	156.0	149.2	142.4	135.6	128.9	122.1	115.3	105.1
77.5°	223.8	217.0	213.6	203.5	196.7	189.9	179.7	169.6	162.8	152.6	142.4
75°	278.1	271.3	261.1	250.9	244.2	234.0	223.8	213.6	200.1	189.9	176.3
72.5°	339.1	328.9	318.8	305.2	291.6	281.5	264.5	250.9	240.8	227.2	213.6
70°	410.3	396.8	379.8	366.2	349.3	332.3	315.4	298.4	281.5	264.5	247.6
67.5°	488.3	471.4	451.0	430.7	410.3	390.0	369.6	345.9	325.5	305.2	284.9
65°	590.1	566.3	535.8	508.7	481.5	454.4	427.3	400.1	376.4	349.3	325.5
62.5°	715.5	678.2	640.9	600.2	566.3	529.0	495.1	461.2	427.3	396.8	366.2
60°	868.1	817.3	766.4	715.5	668.0	613.8	573.1	529.0	484.9	447.6	410.3
57.5°	1034.3	976.6	915.6	851.2	783.3	722.3	664.7	607.0	556.1	505.3	461.2
55°	1190.3	1132.6	1068.2	1000.4	925.8	847.8	766.4	702.0	630.7	573.1	515.4
52.5°	1332.7	1275.1	1210.6	1149.6	1064.8	983.4	895.2	803.7	722.3	647.7	579.9
50°	1454.8	1400.5	1342.9	1271.7	1193.7	1112.3	1020.7	922.4	824.0	729.1	647.7
47.5°	1566.7	1512.4	1451.4	1387.0	1322.5	1231.0	1139.4	1037.7	932.6	824.0	722.3
45°	1665.0	1617.6	1556.5	1488.7	1417.5	1339.5	1247.9	1149.6	1037.7	922.4	803.7
42.5°	1756.6	1705.7	1648.1	1583.6	1512.4	1431.0	1346.3	1247.9	1139.4	1020.7	895.2
40°	1838.0	1787.1	1729.5	1668.4	1604.0	1519.2	1431.0	1339.5	1231.0	1112.3	983.4
37.5°	1899.0	1858.3	1807.5	1743.0	1671.8	1604.0	1512.4	1417.5	1322.5	1193.7	1064.8
35°	1953.3	1912.6	1868.5	1810.8	1743.0	1668.4	1583.6	1488.7	1387.0	1271.7	1149.6
32.5°	2000.7	1960.1	1919.4	1868.5	1807.5	1729.5	1648.1	1556.5	1451.4	1342.9	1210.6
30°	2041.4	2004.1	1960.1	1912.6	1858.3	1787.1	1705.7	1617.6	1512.4	1400.5	1275.1
27.5°	2075.4	2041.4	2000.7	1953.3	1899.0	1838.0	1756.6	1665.0	1566.7	1454.8	1332.7
25°	2102.5	2072.0	2034.7	1987.2	1936.3	1875.3	1804.1	1712.5	1614.2	1502.3	1380.2
22.5°	2126.2	2099.1	2061.8	2017.7	1966.8	1909.2	1841.4	1753.2	1654.9	1546.3	1424.3
20°	2143.2	2119.4	2088.9	2044.8	1994.0	1936.3	1871.9	1790.5	1692.2	1587.0	1461.6
17.5°	2156.7	2133.0	2105.9	2065.2	2017.7	1960.1	1899.0	1827.8	1722.7	1617.6	1495.5
15°	2163.5	2146.6	2119.4	2085.5	2038.0	1983.8	1919.4	1848.1	1749.8	1644.7	1522.6
12.5°	2170.3	2153.3	2129.6	2099.1	2055.0	2000.7	1936.3	1865.1	1773.5	1668.4	1546.3
10°	2173.7	2160.1	2139.8	2109.3	2065.2	2014.3	1949.9	1882.1	1793.9	1685.4	1566.7
7.5°	2180.5	2163.5	2146.6	2116.0	2075.4	2024.5	1963.4	1892.2	1807.5	1698.9	1583.6
5°	2180.5	2166.9	2150.0	2122.8	2082.1	2031.3	1970.2	1902.4	1817.6	1712.5	1593.8
2.5°	2183.9	2170.3	2153.3	2126.2	2088.9	2038.0	1977.0	1909.2	1827.8	1719.3	1604.0
0°	2183.9	2170.3	2153.3	2126.2	2088.9	2038.0	1977.0	1909.2	1827.8	1719.3	1604.0



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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°	20.3	17.0	17.0	17.0	13.6	13.6	10.2	10.2	10.2	6.8	6.8
85°	40.7	37.3	33.9	30.5	27.1	27.1	23.7	20.3	17.0	13.6	10.2
82.5°	67.8	64.4	57.6	50.9	47.5	40.7	33.9	30.5	27.1	20.3	17.0
80°	98.3	88.2	81.4	74.6	67.8	57.6	50.9	44.1	33.9	30.5	23.7
77.5°	128.9	118.7	108.5	98.3	88.2	78.0	67.8	57.6	47.5	37.3	30.5
75°	162.8	152.6	139.0	125.5	111.9	98.3	84.8	71.2	61.0	47.5	33.9
72.5°	200.1	183.1	166.2	149.2	135.6	118.7	101.7	84.8	71.2	57.6	44.1
70°	230.6	213.6	196.7	176.3	159.4	139.0	122.1	101.7	84.8	67.8	50.9
67.5°	261.1	244.2	223.8	203.5	183.1	162.8	139.0	118.7	98.3	78.0	57.6
65°	298.4	274.7	250.9	230.6	206.9	183.1	159.4	135.6	111.9	88.2	67.8
62.5°	335.7	308.6	281.5	254.3	230.6	203.5	176.3	149.2	125.5	98.3	74.6
60°	376.4	342.5	312.0	281.5	250.9	223.8	196.7	166.2	139.0	108.5	81.4
57.5°	420.5	379.8	342.5	308.6	274.7	244.2	213.6	183.1	152.6	118.7	88.2
55°	464.6	420.5	376.4	335.7	298.4	261.1	230.6	200.1	162.8	128.9	98.3
52.5°	515.4	461.2	410.3	366.2	325.5	284.9	247.6	213.6	176.3	142.4	105.1
50°	573.1	505.3	447.6	396.8	349.3	305.2	264.5	227.2	189.9	152.6	115.3
47.5°	630.7	556.1	484.9	427.3	376.4	325.5	281.5	240.8	200.1	162.8	122.1
45°	702.0	607.0	529.0	461.2	400.1	345.9	298.4	250.9	213.6	169.6	128.9
42.5°	766.4	664.7	573.1	495.1	427.3	369.6	315.4	264.5	223.8	179.7	135.6
40°	847.8	722.3	613.8	529.0	454.4	390.0	332.3	281.5	234.0	189.9	142.4
37.5°	925.8	783.3	668.0	566.3	481.5	410.3	349.3	291.6	244.2	196.7	149.2
35°	1000.4	851.2	715.5	600.2	508.7	430.7	366.2	305.2	250.9	203.5	156.0
32.5°	1068.2	915.6	766.4	640.9	535.8	451.0	379.8	318.8	261.1	213.6	162.8
30°	1132.6	976.6	817.3	678.2	566.3	471.4	396.8	328.9	271.3	217.0	166.2
27.5°	1190.3	1034.3	868.1	715.5	590.1	488.3	410.3	339.1	278.1	223.8	172.9
25°	1241.1	1085.2	915.6	749.4	613.8	508.7	423.9	349.3	288.2	230.6	176.3
22.5°	1288.6	1132.6	959.7	786.7	644.3	529.0	437.5	359.5	295.0	234.0	179.7
20°	1329.3	1173.3	1000.4	820.6	668.0	546.0	447.6	369.6	301.8	240.8	186.5
17.5°	1359.8	1207.2	1034.3	854.6	691.8	562.9	461.2	376.4	305.2	244.2	189.9
15°	1390.4	1237.8	1064.8	881.7	712.1	576.5	468.0	383.2	312.0	247.6	193.3
12.5°	1414.1	1261.5	1091.9	905.4	729.1	586.7	478.1	390.0	315.4	250.9	193.3
10°	1434.4	1285.2	1112.3	925.8	742.7	596.8	484.9	393.4	318.8	254.3	196.7
7.5°	1448.0	1302.2	1129.2	939.3	752.8	603.6	488.3	400.1	322.2	254.3	200.1
5°	1458.2	1312.4	1139.4	949.5	759.6	613.8	495.1	403.5	325.5	257.7	200.1
2.5°	1468.3	1322.5	1149.6	959.7	766.4	613.8	495.1	403.5	325.5	257.7	200.1
0°	1468.3	1322.5	1149.6	959.7	766.4	613.8	495.1	403.5	325.5	257.7	200.1



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	0.0	0.0
85°	10.2	6.8	3.4	0.0
82.5°	13.6	10.2	3.4	0.0
80°	17.0	10.2	6.8	0.0
77.5°	20.3	13.6	6.8	0.0
75°	27.1	17.0	10.2	0.0
72.5°	30.5	20.3	10.2	0.0
70°	33.9	23.7	10.2	0.0
67.5°	40.7	27.1	13.6	0.0
65°	47.5	27.1	13.6	0.0
62.5°	50.9	30.5	17.0	0.0
60°	57.6	33.9	17.0	0.0
57.5°	64.4	37.3	17.0	0.0
55°	67.8	40.7	20.3	0.0
52.5°	74.6	44.1	20.3	0.0
50°	78.0	47.5	20.3	0.0
47.5°	81.4	50.9	23.7	0.0
45°	88.2	54.3	23.7	0.0
42.5°	95.0	57.6	23.7	0.0
40°	98.3	57.6	27.1	0.0
37.5°	101.7	61.0	27.1	0.0
35°	108.5	64.4	27.1	0.0
32.5°	111.9	67.8	27.1	0.0
30°	115.3	67.8	30.5	0.0
27.5°	118.7	71.2	30.5	0.0
25°	122.1	71.2	30.5	0.0
22.5°	125.5	74.6	30.5	0.0
20°	128.9	74.6	30.5	0.0
17.5°	132.3	78.0	33.9	0.0
15°	132.3	78.0	33.9	0.0
12.5°	135.6	78.0	33.9	0.0
10°	135.6	81.4	33.9	0.0
7.5°	139.0	81.4	33.9	0.0
5°	139.0	81.4	33.9	0.0
2.5°	139.0	81.4	33.9	0.0
0°	139.0	81.4	33.9	0.0

(END OF REPORT)