

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: P640070

Luminaire Tested: **IFLD-L-SA8A-AMB-U-LAM**

Issue Date: 02/09/2023

Test Information

Test Method: LM-79-2019
Report Number: P640070
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-AMB-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 1620K CCT, 0 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

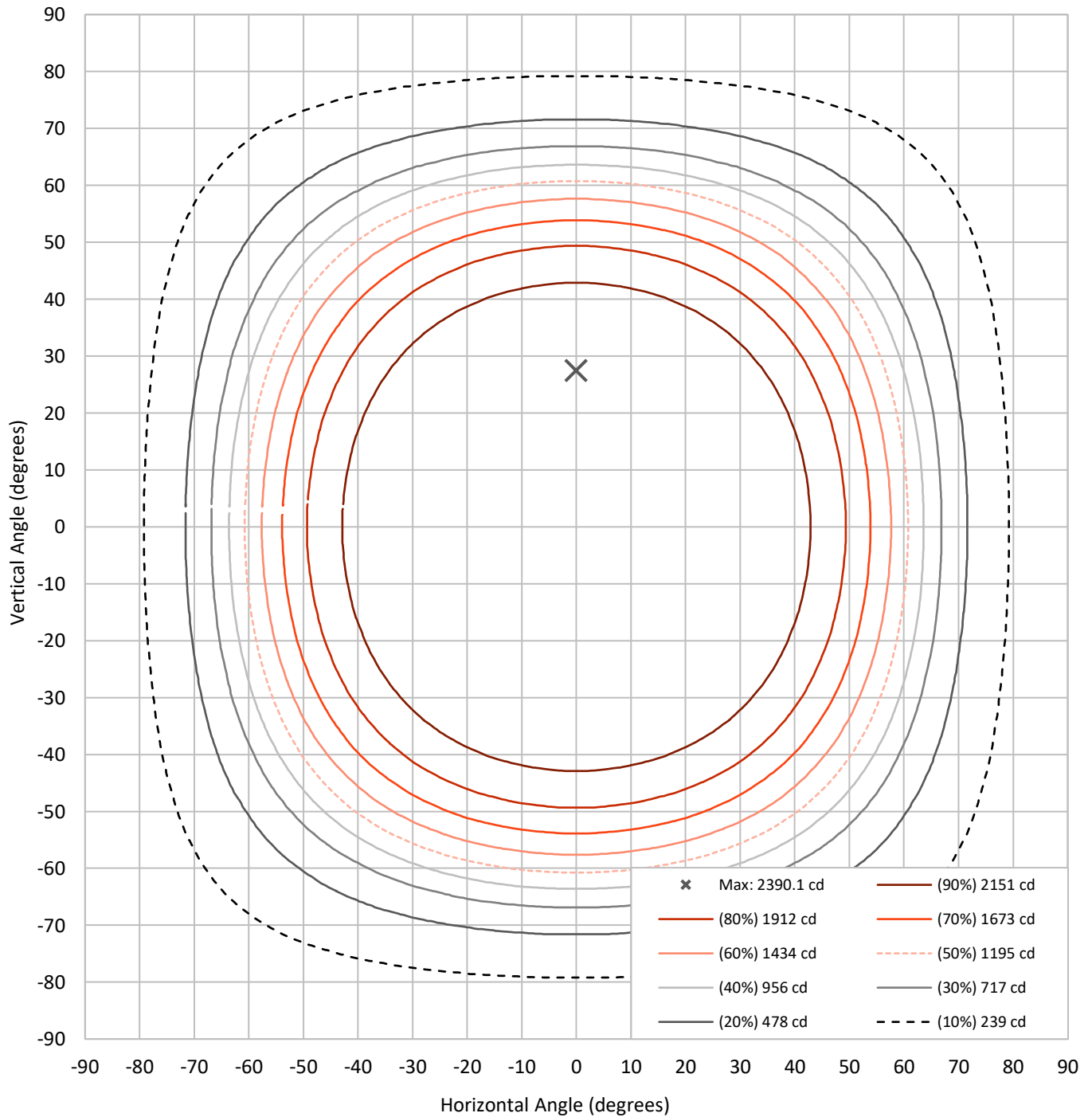
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7799.6 lumens	Max Intensity:	2390.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 27.5°V
Efficacy:	31.5 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:	4895.4 lumens	Field Lumens:	5758.5 lumens
Beam Efficiency:	62.8%	Field Efficiency:	73.8%
Input Watts (W):	247.8		
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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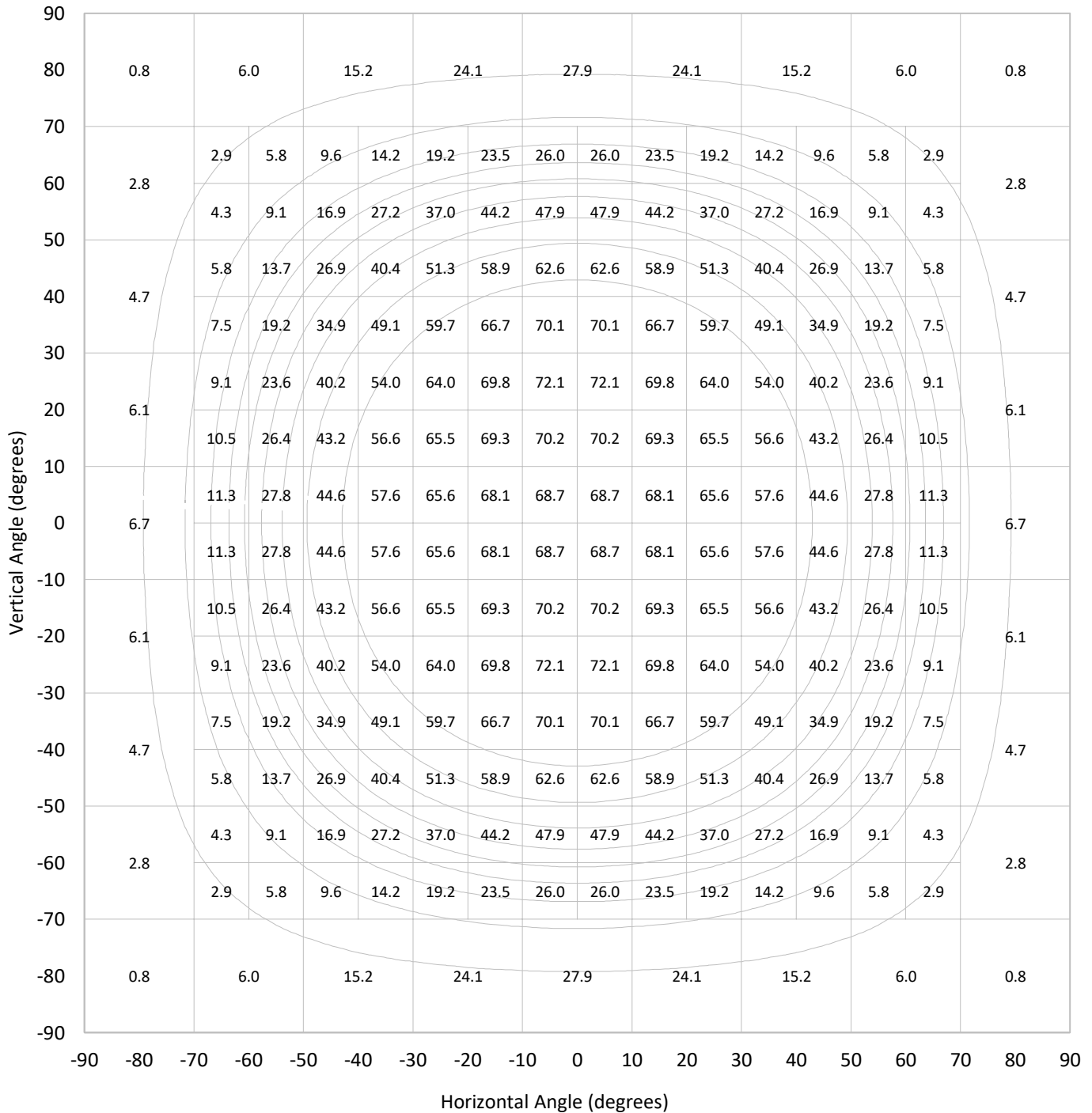
Iso-Candela Plot





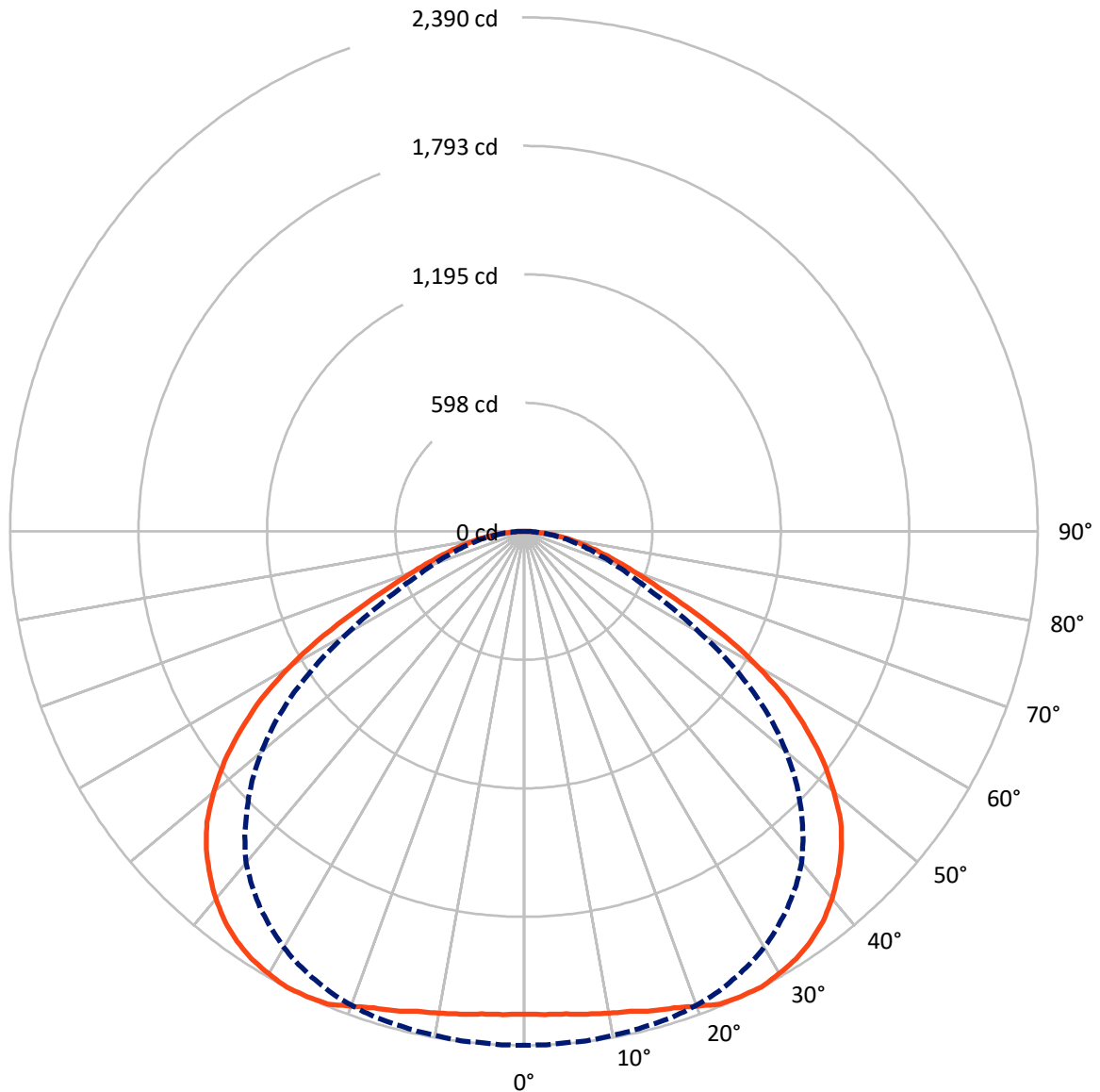
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Lumen Table



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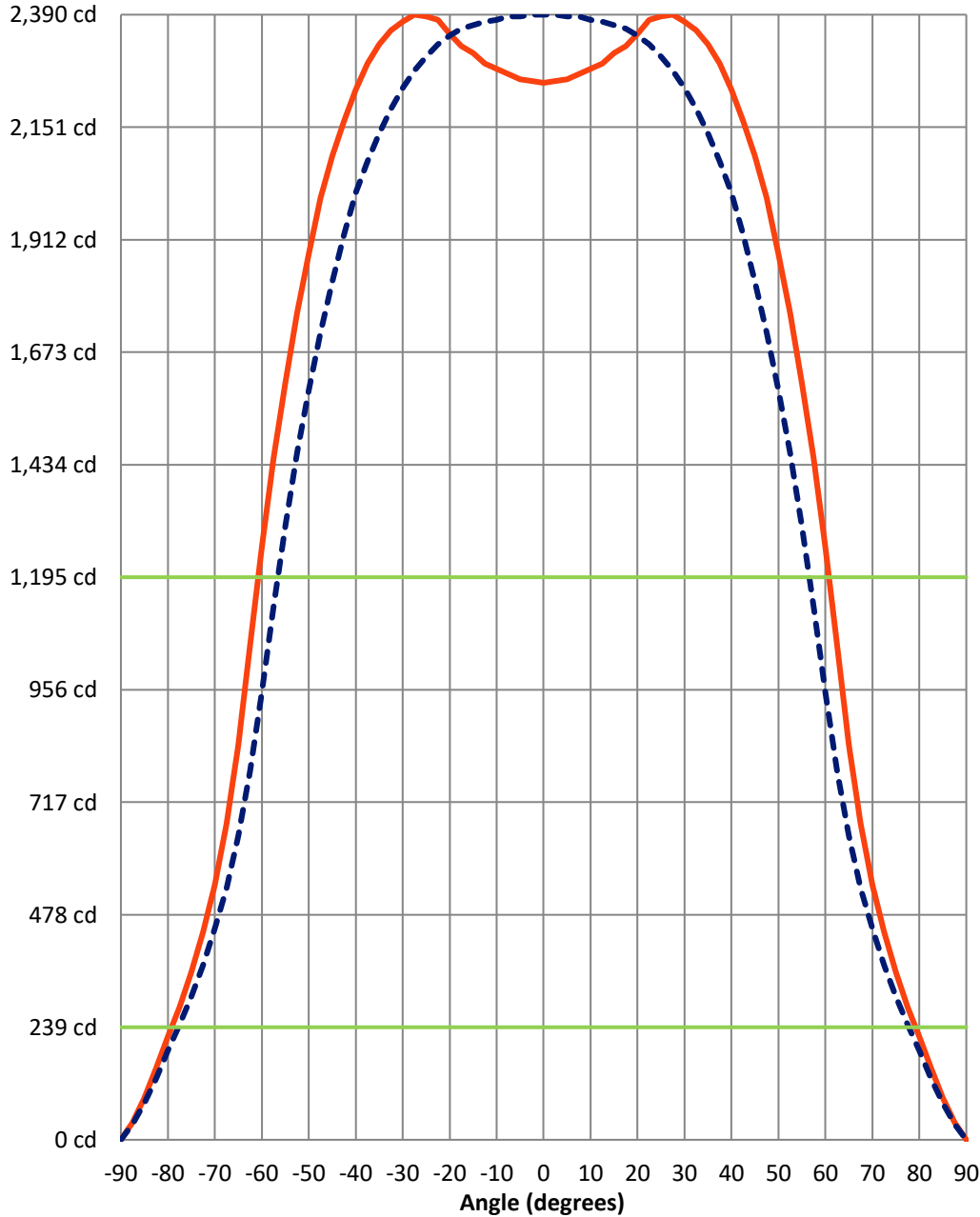
Luminous Intensity Polar Plot



— 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: 4895.4
 Efficiency: 62.8%

Field:
 H Angle: 155.5°
 V Angle: 158.4°
 Lumens: 5758.5
 Efficiency: 73.8%

Spill:
 Lumens: 2041.1
 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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	33.4	33.4	33.4
85°	89.1	89.1	89.1	89.1	89.1	85.4	85.4	85.4	81.6	81.6	77.9
82.5°	152.2	152.2	152.2	152.2	148.5	148.5	144.7	144.7	141.0	137.3	133.6
80°	219.0	219.0	219.0	219.0	215.3	211.5	211.5	207.8	204.1	196.7	193.0
77.5°	282.1	282.1	282.1	278.3	278.3	274.6	270.9	267.2	263.5	256.1	252.4
75°	356.3	356.3	356.3	352.6	348.9	345.2	341.4	334.0	330.3	322.9	315.5
72.5°	441.6	441.6	441.6	437.9	430.5	426.8	419.4	412.0	404.5	393.4	382.3
70°	541.9	541.9	541.9	534.4	530.7	523.3	512.2	504.7	489.9	478.8	463.9
67.5°	671.7	671.7	671.7	660.6	653.2	642.1	630.9	616.1	597.5	579.0	556.7
65°	838.8	838.8	831.3	823.9	812.8	797.9	779.4	757.1	731.1	705.2	671.7
62.5°	1050.3	1050.3	1039.2	1028.0	1013.2	990.9	964.9	935.3	898.1	861.0	820.2
60°	1258.1	1258.1	1247.0	1235.9	1217.3	1195.0	1165.4	1132.0	1094.8	1050.3	1002.1
57.5°	1447.4	1447.4	1436.3	1425.1	1406.6	1380.6	1354.6	1321.2	1284.1	1239.6	1187.6
55°	1607.0	1607.0	1595.9	1584.7	1569.9	1547.6	1521.6	1488.2	1454.8	1410.3	1358.3
52.5°	1755.5	1755.5	1744.3	1733.2	1714.6	1692.4	1666.4	1636.7	1599.6	1558.8	1510.5
50°	1881.6	1881.6	1874.2	1859.4	1844.5	1826.0	1800.0	1770.3	1736.9	1692.4	1644.1
47.5°	2000.4	2000.4	1989.3	1978.1	1963.3	1941.0	1915.0	1885.4	1851.9	1811.1	1766.6
45°	2089.5	2089.5	2082.1	2070.9	2059.8	2041.2	2022.7	2000.4	1959.6	1918.8	1874.2
42.5°	2163.7	2163.7	2156.3	2148.9	2134.0	2119.2	2100.6	2078.3	2048.6	2015.2	1974.4
40°	2230.5	2230.5	2223.1	2215.7	2204.5	2189.7	2171.1	2145.1	2119.2	2089.5	2052.4
37.5°	2286.2	2286.2	2278.8	2271.3	2260.2	2249.1	2230.5	2208.2	2182.3	2152.6	2119.2
35°	2327.0	2327.0	2323.3	2315.9	2308.4	2297.3	2282.5	2260.2	2237.9	2208.2	2174.8
32.5°	2356.7	2356.7	2353.0	2349.3	2341.8	2330.7	2319.6	2304.7	2286.2	2256.5	2226.8
30°	2375.2	2375.2	2371.5	2367.8	2364.1	2356.7	2349.3	2334.4	2319.6	2297.3	2267.6
27.5°	2390.1	2390.1	2386.4	2386.4	2379.0	2375.2	2367.8	2360.4	2345.6	2327.0	2301.0
25°	2386.4	2386.4	2386.4	2386.4	2390.1	2390.1	2382.7	2375.2	2364.1	2349.3	2330.7
22.5°	2379.0	2379.0	2379.0	2382.7	2386.4	2386.4	2390.1	2386.4	2375.2	2364.1	2349.3
20°	2349.3	2349.3	2356.7	2364.1	2375.2	2382.7	2386.4	2390.1	2386.4	2375.2	2364.1
17.5°	2323.3	2323.3	2330.7	2338.1	2349.3	2364.1	2379.0	2386.4	2390.1	2386.4	2375.2
15°	2308.4	2308.4	2312.2	2319.6	2327.0	2341.8	2360.4	2379.0	2386.4	2390.1	2382.7
12.5°	2286.2	2289.9	2293.6	2304.7	2315.9	2323.3	2341.8	2364.1	2382.7	2386.4	2390.1
10°	2275.0	2275.0	2278.8	2286.2	2301.0	2315.9	2327.0	2349.3	2375.2	2386.4	2390.1
7.5°	2263.9	2263.9	2271.3	2278.8	2286.2	2304.7	2319.6	2338.1	2364.1	2382.7	2386.4
5°	2252.8	2256.5	2260.2	2271.3	2278.8	2293.6	2312.2	2330.7	2356.7	2379.0	2386.4
2.5°	2249.1	2249.1	2256.5	2263.9	2275.0	2289.9	2308.4	2323.3	2349.3	2379.0	2386.4
0°	2245.3	2249.1	2252.8	2263.9	2275.0	2286.2	2308.4	2323.3	2349.3	2379.0	2386.4



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 CATALOG NUMBER: IFLD-L-SA8A-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°	33.4	33.4	29.7	29.7	29.7	29.7	26.0	26.0	26.0	22.3	22.3
85°	77.9	74.2	74.2	70.5	66.8	63.1	63.1	59.4	55.7	52.0	48.2
82.5°	129.9	126.2	122.5	118.8	111.3	107.6	103.9	96.5	89.1	85.4	81.6
80°	189.3	181.9	178.1	170.7	163.3	155.9	148.5	141.0	133.6	126.2	115.1
77.5°	244.9	237.5	233.8	222.7	215.3	207.8	196.7	185.6	178.1	167.0	155.9
75°	304.3	296.9	285.8	274.6	267.2	256.1	244.9	233.8	219.0	207.8	193.0
72.5°	371.1	360.0	348.9	334.0	319.2	308.0	289.5	274.6	263.5	248.7	233.8
70°	449.1	434.2	415.7	400.8	382.3	363.7	345.2	326.6	308.0	289.5	270.9
67.5°	534.4	515.9	493.6	471.3	449.1	426.8	404.5	378.6	356.3	334.0	311.8
65°	645.8	619.8	586.4	556.7	527.0	497.3	467.6	437.9	412.0	382.3	356.3
62.5°	783.1	742.3	701.4	656.9	619.8	579.0	541.9	504.7	467.6	434.2	400.8
60°	950.1	894.4	838.8	783.1	731.1	671.7	627.2	579.0	530.7	489.9	449.1
57.5°	1132.0	1068.9	1002.1	931.5	857.3	790.5	727.4	664.3	608.7	553.0	504.7
55°	1302.7	1239.6	1169.1	1094.8	1013.2	927.8	838.8	768.2	690.3	627.2	564.1
52.5°	1458.5	1395.5	1324.9	1258.1	1165.4	1076.3	979.8	879.6	790.5	708.9	634.6
50°	1592.2	1532.8	1469.7	1391.7	1306.4	1217.3	1117.1	1009.5	901.9	797.9	708.9
47.5°	1714.6	1655.2	1588.4	1517.9	1447.4	1347.2	1247.0	1135.7	1020.6	901.9	790.5
45°	1822.3	1770.3	1703.5	1629.3	1551.3	1466.0	1365.8	1258.1	1135.7	1009.5	879.6
42.5°	1922.5	1866.8	1803.7	1733.2	1655.2	1566.2	1473.4	1365.8	1247.0	1117.1	979.8
40°	2011.5	1955.9	1892.8	1826.0	1755.5	1662.7	1566.2	1466.0	1347.2	1217.3	1076.3
37.5°	2078.3	2033.8	1978.1	1907.6	1829.7	1755.5	1655.2	1551.3	1447.4	1306.4	1165.4
35°	2137.7	2093.2	2044.9	1981.8	1907.6	1826.0	1733.2	1629.3	1517.9	1391.7	1258.1
32.5°	2189.7	2145.1	2100.6	2044.9	1978.1	1892.8	1803.7	1703.5	1588.4	1469.7	1324.9
30°	2234.2	2193.4	2145.1	2093.2	2033.8	1955.9	1866.8	1770.3	1655.2	1532.8	1395.5
27.5°	2271.3	2234.2	2189.7	2137.7	2078.3	2011.5	1922.5	1822.3	1714.6	1592.2	1458.5
25°	2301.0	2267.6	2226.8	2174.8	2119.2	2052.4	1974.4	1874.2	1766.6	1644.1	1510.5
22.5°	2327.0	2297.3	2256.5	2208.2	2152.6	2089.5	2015.2	1918.8	1811.1	1692.4	1558.8
20°	2345.6	2319.6	2286.2	2237.9	2182.3	2119.2	2048.6	1959.6	1851.9	1736.9	1599.6
17.5°	2360.4	2334.4	2304.7	2260.2	2208.2	2145.1	2078.3	2000.4	1885.4	1770.3	1636.7
15°	2367.8	2349.3	2319.6	2282.5	2230.5	2171.1	2100.6	2022.7	1915.0	1800.0	1666.4
12.5°	2375.2	2356.7	2330.7	2297.3	2249.1	2189.7	2119.2	2041.2	1941.0	1826.0	1692.4
10°	2379.0	2364.1	2341.8	2308.4	2260.2	2204.5	2134.0	2059.8	1963.3	1844.5	1714.6
7.5°	2386.4	2367.8	2349.3	2315.9	2271.3	2215.7	2148.9	2070.9	1978.1	1859.4	1733.2
5°	2386.4	2371.5	2353.0	2323.3	2278.8	2223.1	2156.3	2082.1	1989.3	1874.2	1744.3
2.5°	2390.1	2375.2	2356.7	2327.0	2286.2	2230.5	2163.7	2089.5	2000.4	1881.6	1755.5
0°	2390.1	2375.2	2356.7	2327.0	2286.2	2230.5	2163.7	2089.5	2000.4	1881.6	1755.5



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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°	22.3	18.6	18.6	18.6	14.8	14.8	11.1	11.1	11.1	7.4	7.4
85°	44.5	40.8	37.1	33.4	29.7	29.7	26.0	22.3	18.6	14.8	11.1
82.5°	74.2	70.5	63.1	55.7	52.0	44.5	37.1	33.4	29.7	22.3	18.6
80°	107.6	96.5	89.1	81.6	74.2	63.1	55.7	48.2	37.1	33.4	26.0
77.5°	141.0	129.9	118.8	107.6	96.5	85.4	74.2	63.1	52.0	40.8	33.4
75°	178.1	167.0	152.2	137.3	122.5	107.6	92.8	77.9	66.8	52.0	37.1
72.5°	219.0	200.4	181.9	163.3	148.5	129.9	111.3	92.8	77.9	63.1	48.2
70°	252.4	233.8	215.3	193.0	174.4	152.2	133.6	111.3	92.8	74.2	55.7
67.5°	285.8	267.2	244.9	222.7	200.4	178.1	152.2	129.9	107.6	85.4	63.1
65°	326.6	300.6	274.6	252.4	226.4	200.4	174.4	148.5	122.5	96.5	74.2
62.5°	367.4	337.7	308.0	278.3	252.4	222.7	193.0	163.3	137.3	107.6	81.6
60°	412.0	374.8	341.4	308.0	274.6	244.9	215.3	181.9	152.2	118.8	89.1
57.5°	460.2	415.7	374.8	337.7	300.6	267.2	233.8	200.4	167.0	129.9	96.5
55°	508.5	460.2	412.0	367.4	326.6	285.8	252.4	219.0	178.1	141.0	107.6
52.5°	564.1	504.7	449.1	400.8	356.3	311.8	270.9	233.8	193.0	155.9	115.1
50°	627.2	553.0	489.9	434.2	382.3	334.0	289.5	248.7	207.8	167.0	126.2
47.5°	690.3	608.7	530.7	467.6	412.0	356.3	308.0	263.5	219.0	178.1	133.6
45°	768.2	664.3	579.0	504.7	437.9	378.6	326.6	274.6	233.8	185.6	141.0
42.5°	838.8	727.4	627.2	541.9	467.6	404.5	345.2	289.5	244.9	196.7	148.5
40°	927.8	790.5	671.7	579.0	497.3	426.8	363.7	308.0	256.1	207.8	155.9
37.5°	1013.2	857.3	731.1	619.8	527.0	449.1	382.3	319.2	267.2	215.3	163.3
35°	1094.8	931.5	783.1	656.9	556.7	471.3	400.8	334.0	274.6	222.7	170.7
32.5°	1169.1	1002.1	838.8	701.4	586.4	493.6	415.7	348.9	285.8	233.8	178.1
30°	1239.6	1068.9	894.4	742.3	619.8	515.9	434.2	360.0	296.9	237.5	181.9
27.5°	1302.7	1132.0	950.1	783.1	645.8	534.4	449.1	371.1	304.3	244.9	189.3
25°	1358.3	1187.6	1002.1	820.2	671.7	556.7	463.9	382.3	315.5	252.4	193.0
22.5°	1410.3	1239.6	1050.3	861.0	705.2	579.0	478.8	393.4	322.9	256.1	196.7
20°	1454.8	1284.1	1094.8	898.1	731.1	597.5	489.9	404.5	330.3	263.5	204.1
17.5°	1488.2	1321.2	1132.0	935.3	757.1	616.1	504.7	412.0	334.0	267.2	207.8
15°	1521.6	1354.6	1165.4	964.9	779.4	630.9	512.2	419.4	341.4	270.9	211.5
12.5°	1547.6	1380.6	1195.0	990.9	797.9	642.1	523.3	426.8	345.2	274.6	211.5
10°	1569.9	1406.6	1217.3	1013.2	812.8	653.2	530.7	430.5	348.9	278.3	215.3
7.5°	1584.7	1425.1	1235.9	1028.0	823.9	660.6	534.4	437.9	352.6	278.3	219.0
5°	1595.9	1436.3	1247.0	1039.2	831.3	671.7	541.9	441.6	356.3	282.1	219.0
2.5°	1607.0	1447.4	1258.1	1050.3	838.8	671.7	541.9	441.6	356.3	282.1	219.0
0°	1607.0	1447.4	1258.1	1050.3	838.8	671.7	541.9	441.6	356.3	282.1	219.0



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 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	0.0	0.0
85°	11.1	7.4	3.7	0.0
82.5°	14.8	11.1	3.7	0.0
80°	18.6	11.1	7.4	0.0
77.5°	22.3	14.8	7.4	0.0
75°	29.7	18.6	11.1	0.0
72.5°	33.4	22.3	11.1	0.0
70°	37.1	26.0	11.1	0.0
67.5°	44.5	29.7	14.8	0.0
65°	52.0	29.7	14.8	0.0
62.5°	55.7	33.4	18.6	0.0
60°	63.1	37.1	18.6	0.0
57.5°	70.5	40.8	18.6	0.0
55°	74.2	44.5	22.3	0.0
52.5°	81.6	48.2	22.3	0.0
50°	85.4	52.0	22.3	0.0
47.5°	89.1	55.7	26.0	0.0
45°	96.5	59.4	26.0	0.0
42.5°	103.9	63.1	26.0	0.0
40°	107.6	63.1	29.7	0.0
37.5°	111.3	66.8	29.7	0.0
35°	118.8	70.5	29.7	0.0
32.5°	122.5	74.2	29.7	0.0
30°	126.2	74.2	33.4	0.0
27.5°	129.9	77.9	33.4	0.0
25°	133.6	77.9	33.4	0.0
22.5°	137.3	81.6	33.4	0.0
20°	141.0	81.6	33.4	0.0
17.5°	144.7	85.4	37.1	0.0
15°	144.7	85.4	37.1	0.0
12.5°	148.5	85.4	37.1	0.0
10°	148.5	89.1	37.1	0.0
7.5°	152.2	89.1	37.1	0.0
5°	152.2	89.1	37.1	0.0
2.5°	152.2	89.1	37.1	0.0
0°	152.2	89.1	37.1	0.0

(END OF REPORT)