

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: P628282

Luminaire Tested: **IFLD-M-SA4B-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628282
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

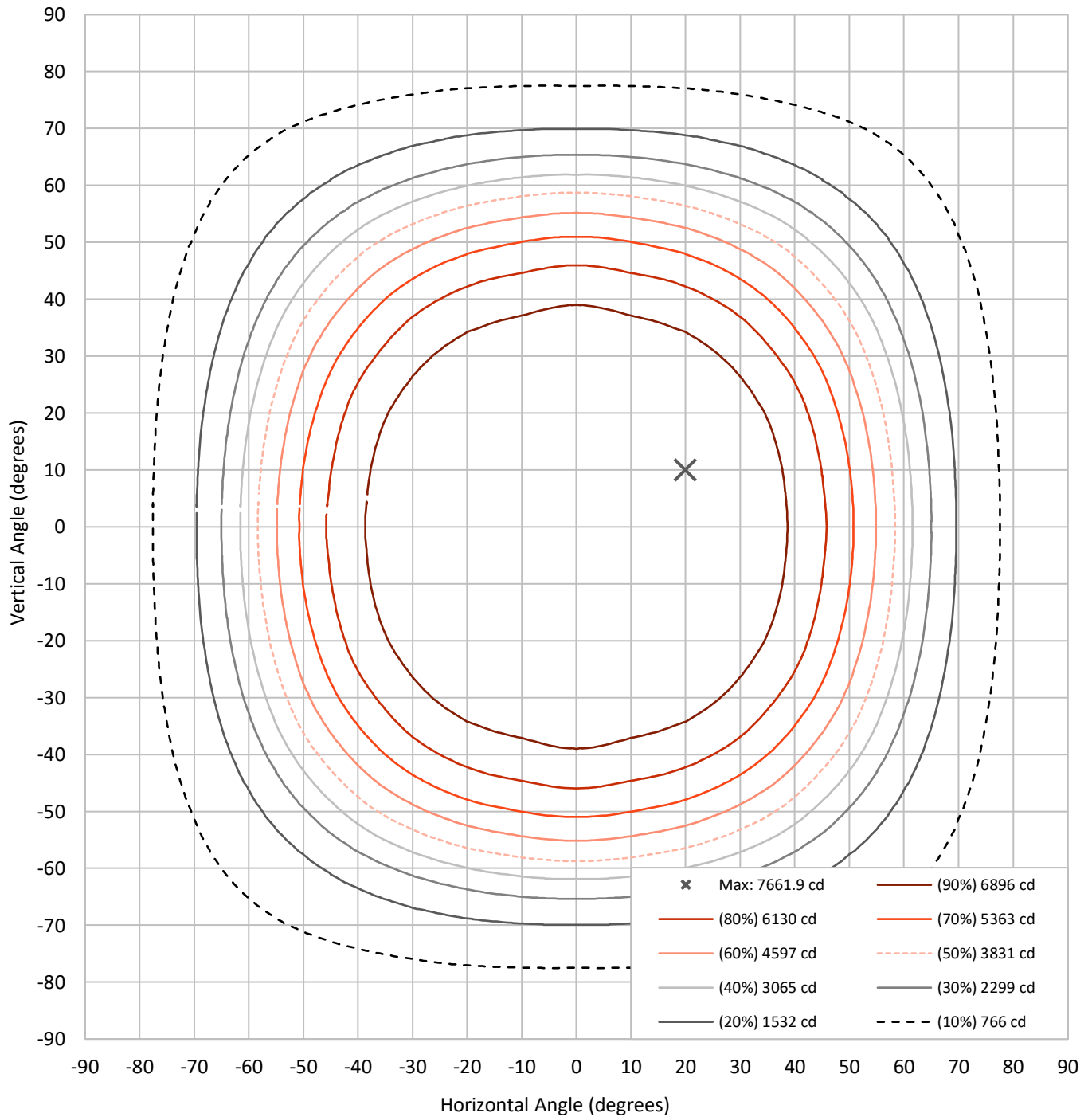
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23505.7 lumens	Max Intensity:	7661.9 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	141.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	14423.6 lumens	Field Lumens:	17291.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 166.1
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



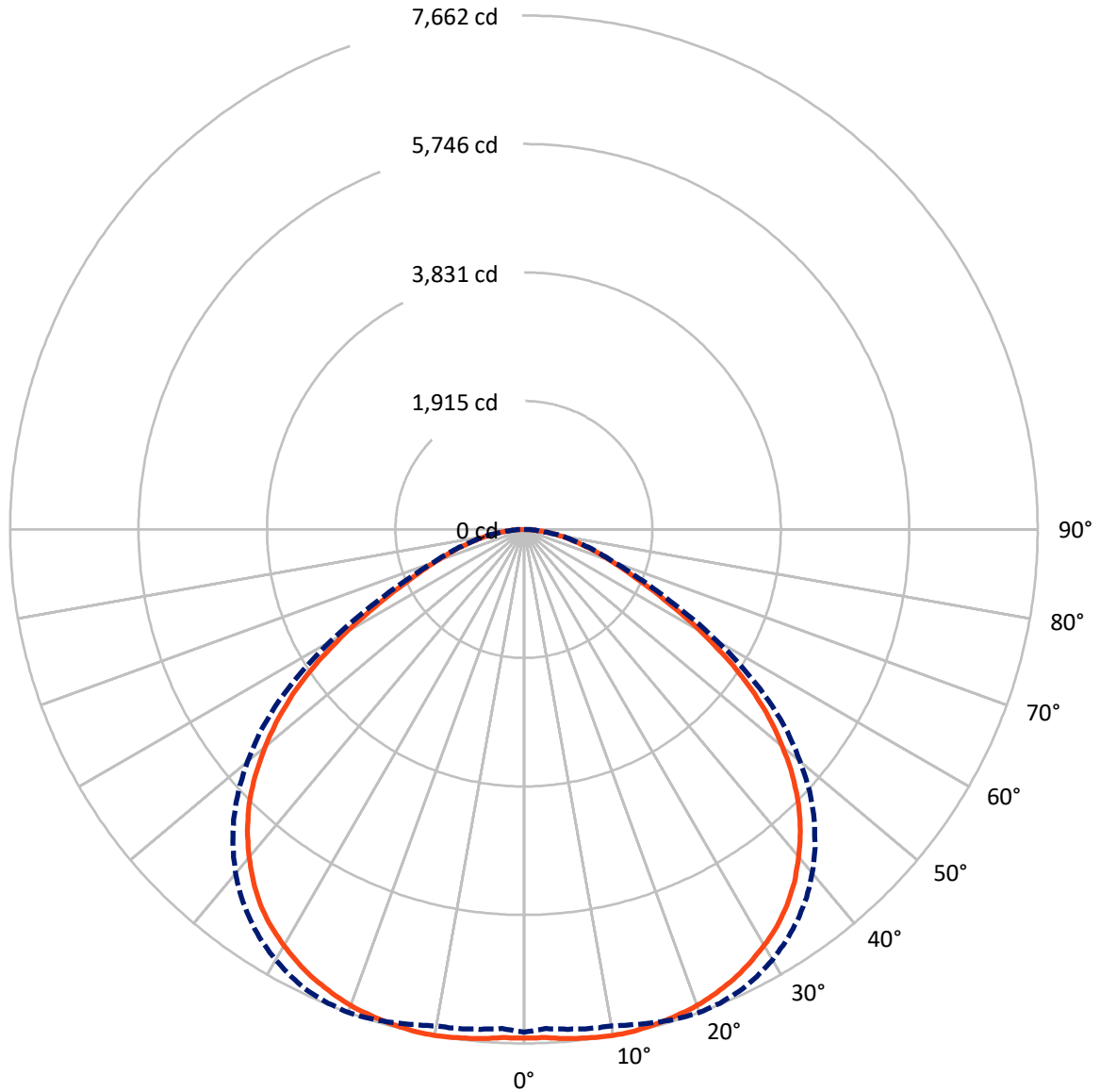
REPORT NUMBER: P628282
CATALOG NUMBER: IFLD-M-SA4B-740-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628282
CATALOG NUMBER: IFLD-M-SA4B-740-U-LAM

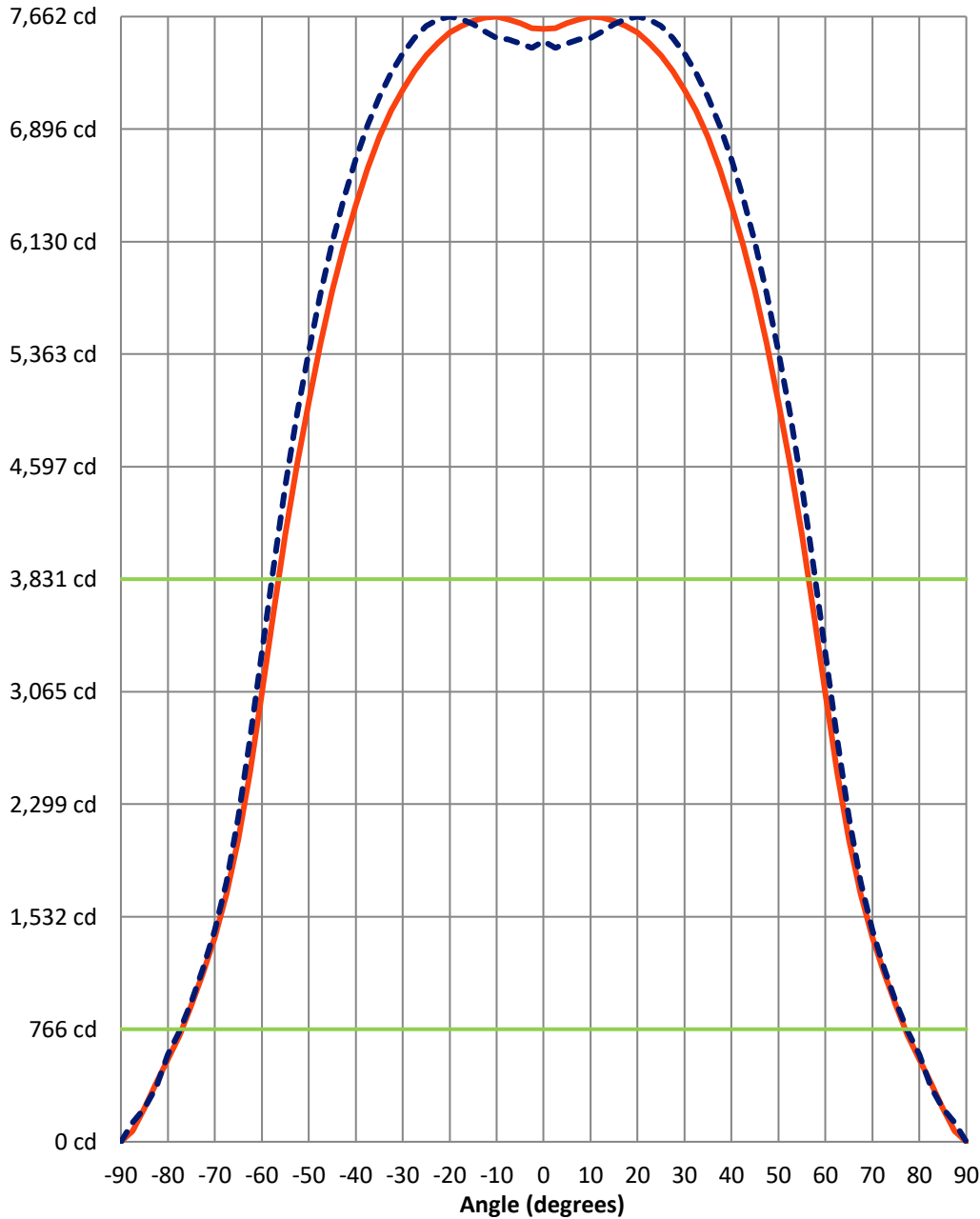
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628282
 CATALOG NUMBER: IFLD-M-SA4B-740-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 14423.6
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 17291.4
 Efficiency: 73.6%

Spill:
 Lumens: 6214.3
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628282
 CATALOG NUMBER: IFLD-M-SA4B-740-U-LAM

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°	61.8	66.8	69.2	71.7	74.2	76.7	79.1	76.7	74.2	74.2	71.7
85°	165.7	170.6	173.1	190.4	207.7	217.6	230.0	227.5	227.5	225.1	222.6
82.5°	331.4	346.2	358.6	375.9	385.8	400.7	410.5	403.1	398.2	388.3	380.9
80°	588.6	593.6	596.0	598.5	586.1	583.7	578.7	571.3	561.4	549.0	536.7
77.5°	749.4	754.3	759.3	754.3	751.8	749.4	742.0	734.5	724.6	714.7	699.9
75°	991.7	991.7	991.7	984.3	979.4	972.0	959.6	947.2	929.9	910.1	887.9
72.5°	1249.0	1246.5	1244.0	1229.2	1216.8	1202.0	1184.7	1169.8	1150.0	1127.8	1098.1
70°	1518.5	1523.5	1526.0	1506.2	1491.3	1471.5	1449.3	1422.1	1392.4	1360.2	1318.2
67.5°	1889.5	1884.6	1879.6	1852.4	1832.6	1805.4	1773.3	1733.7	1689.2	1639.7	1580.4
65°	2349.5	2356.9	2342.1	2314.9	2277.8	2233.3	2183.8	2126.9	2060.2	1986.0	1901.9
62.5°	2906.0	2918.4	2901.0	2866.4	2819.4	2760.1	2690.8	2609.2	2517.7	2413.8	2309.9
60°	3539.1	3536.6	3504.5	3457.5	3395.7	3321.5	3244.8	3155.8	3051.9	2930.7	2804.6
57.5°	4120.3	4115.4	4075.8	4028.8	3967.0	3887.8	3806.2	3712.2	3603.4	3474.8	3328.9
55°	4642.2	4637.2	4597.6	4548.2	4483.9	4404.7	4330.5	4241.5	4135.2	3999.1	3843.3
52.5°	5104.6	5107.1	5072.5	5018.1	4948.8	4872.2	4800.4	4711.4	4610.0	4474.0	4323.1
50°	5530.0	5527.6	5490.5	5441.0	5376.7	5302.5	5230.8	5141.7	5035.4	4904.3	4758.4
47.5°	5925.7	5920.8	5878.7	5824.3	5757.6	5693.3	5626.5	5547.3	5436.0	5305.0	5159.1
45°	6257.1	6247.3	6205.2	6153.3	6089.0	6032.1	5972.7	5913.4	5794.7	5673.5	5535.0
42.5°	6541.6	6539.1	6497.0	6445.1	6380.8	6331.3	6276.9	6202.7	6103.8	5992.5	5856.5
40°	6813.6	6793.8	6751.8	6702.3	6643.0	6600.9	6546.5	6472.3	6375.9	6267.0	6136.0
37.5°	7016.4	7018.9	6974.4	6920.0	6868.0	6828.4	6779.0	6709.7	6625.6	6519.3	6388.2
35°	7209.3	7197.0	7159.9	7112.9	7065.9	7021.4	6969.4	6910.1	6840.8	6741.9	6618.2
32.5°	7335.5	7352.8	7308.2	7258.8	7231.6	7197.0	7142.5	7080.7	7018.9	6920.0	6808.7
30°	7473.9	7459.1	7424.5	7382.4	7362.7	7340.4	7293.4	7234.0	7162.3	7073.3	6969.4
27.5°	7570.4	7563.0	7520.9	7481.4	7471.5	7451.7	7414.6	7362.7	7290.9	7204.4	7107.9
25°	7612.4	7617.4	7577.8	7555.6	7555.6	7543.2	7513.5	7469.0	7397.3	7318.1	7224.2
22.5°	7632.2	7627.3	7600.1	7595.1	7607.5	7597.6	7585.2	7545.7	7481.4	7417.1	7337.9
20°	7644.6	7610.0	7585.2	7605.0	7619.9	7617.4	7607.5	7582.8	7553.1	7498.7	7429.4
17.5°	7617.4	7595.1	7565.5	7595.1	7627.3	7629.8	7619.9	7605.0	7597.6	7563.0	7501.2
15°	7550.6	7533.3	7538.3	7567.9	7605.0	7617.4	7624.8	7642.1	7632.2	7605.0	7550.6
12.5°	7506.1	7483.8	7506.1	7535.8	7555.6	7563.0	7622.3	7654.5	7654.5	7629.8	7595.1
10°	7493.7	7449.2	7478.9	7506.1	7516.0	7560.5	7610.0	7644.6	7661.9	7642.1	7597.6
7.5°	7469.0	7439.3	7451.7	7464.1	7520.9	7553.1	7580.3	7617.4	7642.1	7639.7	7600.1
5°	7456.6	7419.5	7424.5	7476.4	7516.0	7538.3	7548.1	7580.3	7617.4	7624.8	7595.1
2.5°	7424.5	7407.2	7444.3	7449.2	7478.9	7496.2	7506.1	7535.8	7582.8	7600.1	7587.7
0°	7407.2	7382.4	7357.7	7377.5	7427.0	7464.1	7478.9	7523.4	7577.8	7595.1	7567.9



REPORT NUMBER: P628282
 CATALOG NUMBER: IFLD-M-SA4B-740-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°	69.2	66.8	64.3	61.8	64.3	64.3	64.3	61.8	64.3	61.8	61.8
85°	215.2	205.3	197.9	188.0	178.1	170.6	160.8	150.9	148.4	145.9	141.0
82.5°	371.0	358.6	346.2	331.4	316.6	299.3	281.9	262.2	257.2	252.3	244.8
80°	521.8	504.5	487.2	469.9	455.1	437.8	418.0	395.7	380.9	368.5	353.7
77.5°	680.1	655.4	630.7	601.0	583.7	566.4	546.6	524.3	502.1	482.3	460.0
75°	860.7	833.5	808.7	779.1	746.9	714.7	682.6	652.9	620.8	591.1	561.4
72.5°	1061.0	1021.4	981.9	944.8	905.2	865.6	823.6	784.0	744.4	704.9	662.8
70°	1271.2	1221.8	1172.3	1122.8	1070.9	1018.9	969.5	920.0	870.6	818.6	771.6
67.5°	1518.5	1461.6	1397.3	1328.1	1251.4	1184.7	1120.4	1061.0	1001.6	942.3	882.9
65°	1827.7	1748.5	1662.0	1568.0	1479.0	1389.9	1295.9	1206.9	1137.7	1068.4	1001.6
62.5°	2208.5	2097.3	1976.1	1854.9	1746.1	1629.8	1521.0	1404.8	1295.9	1197.0	1115.4
60°	2663.6	2512.8	2364.4	2208.5	2057.7	1899.4	1760.9	1617.5	1481.4	1360.2	1241.5
57.5°	3165.7	2990.1	2812.0	2621.6	2416.3	2230.8	2042.8	1854.9	1694.1	1533.4	1399.8
55°	3675.1	3489.7	3289.3	3074.2	2849.1	2611.7	2356.9	2146.7	1926.6	1738.6	1565.5
52.5°	4159.9	3967.0	3759.2	3561.4	3291.8	3019.8	2740.3	2463.3	2206.1	1966.2	1756.0
50°	4592.7	4404.7	4204.4	3974.4	3724.6	3435.2	3123.6	2812.0	2507.8	2225.9	1963.7
47.5°	4988.4	4805.4	4605.1	4375.1	4147.5	3826.0	3511.9	3168.1	2829.3	2505.3	2198.7
45°	5359.4	5173.9	4966.1	4746.0	4483.9	4197.0	3873.0	3526.8	3163.2	2799.6	2446.0
42.5°	5695.7	5510.2	5300.0	5072.5	4812.8	4528.4	4214.3	3865.6	3499.5	3103.8	2715.6
40°	5990.0	5809.5	5606.7	5369.3	5126.9	4827.6	4518.5	4187.1	3808.7	3410.5	2982.7
37.5°	6247.3	6079.1	5878.7	5643.8	5386.6	5119.5	4800.4	4469.0	4127.7	3694.9	3257.2
35°	6474.8	6319.0	6113.7	5891.1	5638.8	5356.9	5057.7	4733.7	4365.2	3959.6	3534.2
32.5°	6672.6	6514.4	6326.4	6103.8	5859.0	5594.3	5287.7	4961.2	4612.5	4199.5	3737.0
30°	6840.8	6687.5	6509.4	6299.2	6064.2	5802.1	5502.8	5173.9	4817.8	4407.2	3949.7
27.5°	6986.7	6840.8	6667.7	6472.3	6247.3	5995.0	5693.3	5361.9	4998.3	4602.6	4145.0
25°	7112.9	6971.9	6811.1	6625.6	6403.1	6155.7	5871.3	5525.1	5161.5	4763.3	4310.8
22.5°	7226.6	7090.6	6929.8	6749.3	6546.5	6299.2	6012.3	5668.5	5300.0	4906.8	4461.6
20°	7328.0	7201.9	7043.6	6858.1	6655.3	6405.5	6121.1	5794.7	5423.7	5037.9	4597.6
17.5°	7409.6	7298.4	7140.1	6944.7	6741.9	6499.5	6222.5	5923.3	5530.0	5149.2	4711.4
15°	7466.5	7357.7	7214.3	7016.4	6818.6	6578.7	6301.7	5992.5	5626.5	5238.2	4805.4
12.5°	7506.1	7389.9	7256.3	7073.3	6875.4	6638.0	6368.4	6064.2	5708.1	5317.3	4887.0
10°	7516.0	7409.6	7276.1	7112.9	6920.0	6690.0	6425.3	6123.6	5774.9	5379.2	4953.8
7.5°	7520.9	7419.5	7298.4	7142.5	6952.1	6729.5	6467.4	6170.6	5824.3	5431.1	5003.2
5°	7518.5	7422.0	7313.2	7162.3	6971.9	6751.8	6494.6	6202.7	5859.0	5465.7	5040.3
2.5°	7511.0	7424.5	7323.1	7177.2	6994.2	6776.5	6521.8	6239.8	5896.1	5495.4	5070.0
0°	7530.8	7456.6	7328.0	7172.2	6999.1	6776.5	6519.3	6244.8	5901.0	5492.9	5067.5



REPORT NUMBER: P628282
 CATALOG NUMBER: IFLD-M-SA4B-740-U-LAM

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°	61.8	59.4	59.4	56.9	54.4	51.9	47.0	44.5	39.6	32.2	24.7
85°	133.6	126.1	118.7	113.8	108.8	103.9	96.5	89.0	79.1	64.3	49.5
82.5°	235.0	220.1	205.3	188.0	173.1	158.3	145.9	133.6	118.7	96.5	74.2
80°	336.4	314.1	291.8	267.1	244.8	220.1	197.9	178.1	158.3	128.6	98.9
77.5°	437.8	408.1	375.9	346.2	314.1	281.9	249.8	222.6	192.9	158.3	123.7
75°	531.7	497.1	467.4	425.4	385.8	343.8	301.7	264.6	227.5	185.5	148.4
72.5°	625.7	581.2	539.2	499.6	455.1	403.1	356.1	309.1	262.2	212.7	168.2
70°	719.7	665.3	613.3	566.4	516.9	465.0	408.1	353.7	296.8	237.4	185.5
67.5°	816.1	754.3	695.0	635.6	578.7	519.4	460.0	398.2	331.4	262.2	205.3
65°	922.5	845.8	774.1	707.3	640.6	576.3	509.5	442.7	368.5	289.4	222.6
62.5°	1028.8	944.8	860.7	776.6	702.4	630.7	558.9	484.7	403.1	319.0	239.9
60°	1142.6	1046.2	949.7	855.7	764.2	685.1	605.9	526.8	440.2	346.2	257.2
57.5°	1268.7	1152.5	1043.7	937.3	833.5	739.5	652.9	568.8	472.4	373.5	277.0
55°	1412.2	1268.7	1140.1	1021.4	907.7	793.9	699.9	613.3	509.5	400.7	299.3
52.5°	1563.0	1397.3	1241.5	1108.0	986.8	858.2	744.4	648.0	546.6	427.9	319.0
50°	1738.6	1528.4	1355.3	1192.1	1056.0	922.5	791.4	687.5	583.7	460.0	338.8
47.5°	1919.2	1686.7	1469.1	1291.0	1130.2	984.3	845.8	722.2	618.3	489.7	358.6
45°	2129.4	1837.6	1597.7	1387.5	1202.0	1048.6	900.2	759.3	648.0	519.4	378.4
42.5°	2332.2	2015.6	1731.2	1493.8	1283.6	1110.5	949.7	798.8	677.7	549.0	395.7
40°	2572.1	2193.7	1859.8	1595.2	1365.2	1169.8	999.2	840.9	704.9	576.3	413.0
37.5°	2802.1	2374.3	2015.6	1706.5	1444.3	1229.2	1048.6	880.5	729.6	603.5	435.3
35°	3029.6	2574.6	2164.0	1810.4	1526.0	1295.9	1098.1	917.5	754.3	625.7	455.1
32.5°	3247.3	2762.5	2314.9	1926.6	1615.0	1357.8	1142.6	952.2	779.1	645.5	474.9
30°	3450.1	2940.6	2463.3	2045.3	1696.6	1414.7	1184.7	986.8	808.7	662.8	494.6
27.5°	3635.6	3113.7	2611.7	2156.6	1773.3	1466.6	1229.2	1018.9	833.5	680.1	511.9
25°	3803.7	3269.5	2747.7	2258.0	1842.5	1523.5	1271.2	1051.1	855.7	695.0	526.8
22.5°	3962.0	3413.0	2871.4	2359.4	1926.6	1580.4	1310.8	1080.8	878.0	709.8	541.6
20°	4100.5	3544.1	2990.1	2460.8	2000.8	1632.3	1345.4	1108.0	897.8	719.7	556.5
17.5°	4211.8	3660.3	3096.4	2549.8	2065.1	1676.8	1375.1	1132.7	915.1	732.1	566.4
15°	4310.8	3759.2	3185.5	2626.5	2122.0	1713.9	1402.3	1152.5	929.9	739.5	578.7
12.5°	4394.8	3843.3	3262.1	2693.3	2171.5	1746.1	1424.6	1167.3	942.3	746.9	586.1
10°	4464.1	3910.1	3326.4	2745.2	2211.0	1770.8	1441.9	1182.2	952.2	754.3	593.6
7.5°	4516.0	3959.6	3373.4	2789.7	2243.2	1788.1	1456.7	1192.1	962.1	759.3	605.9
5°	4555.6	4001.6	3410.5	2819.4	2267.9	1812.8	1474.0	1204.4	972.0	764.2	605.9
2.5°	4585.3	4036.2	3440.2	2844.2	2287.7	1807.9	1474.0	1202.0	972.0	764.2	603.5
0°	4580.3	4038.7	3437.7	2844.2	2287.7	1802.9	1474.0	1199.5	972.0	764.2	603.5



REPORT NUMBER: P628282
 CATALOG NUMBER: IFLD-M-SA4B-740-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	17.3	12.4	4.9	0.0
85°	37.1	24.7	12.4	0.0
82.5°	54.4	34.6	17.3	0.0
80°	71.7	47.0	22.3	0.0
77.5°	91.5	59.4	29.7	0.0
75°	108.8	69.2	34.6	0.0
72.5°	126.1	81.6	39.6	0.0
70°	141.0	91.5	44.5	0.0
67.5°	155.8	103.9	51.9	0.0
65°	168.2	113.8	56.9	0.0
62.5°	178.1	126.1	61.8	0.0
60°	190.4	136.0	66.8	0.0
57.5°	200.3	143.4	71.7	0.0
55°	210.2	148.4	76.7	0.0
52.5°	220.1	155.8	81.6	0.0
50°	230.0	163.2	86.6	0.0
47.5°	239.9	168.2	89.0	0.0
45°	254.7	175.6	94.0	0.0
42.5°	267.1	180.5	98.9	0.0
40°	279.5	185.5	101.4	0.0
37.5°	291.8	190.4	106.3	0.0
35°	304.2	195.4	108.8	0.0
32.5°	314.1	200.3	111.3	0.0
30°	324.0	205.3	113.8	0.0
27.5°	333.9	207.7	116.2	0.0
25°	341.3	212.7	118.7	0.0
22.5°	348.7	215.2	121.2	0.0
20°	353.7	217.6	123.7	0.0
17.5°	361.1	220.1	126.1	0.0
15°	363.6	222.6	131.1	0.0
12.5°	368.5	225.1	131.1	0.0
10°	371.0	227.5	131.1	0.0
7.5°	375.9	227.5	131.1	0.0
5°	373.5	227.5	131.1	0.0
2.5°	373.5	227.5	131.1	0.0
0°	371.0	227.5	131.1	0.0

(END OF REPORT)