

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: P628316

Luminaire Tested: **IFLD-L-SA7B-750-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628316
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

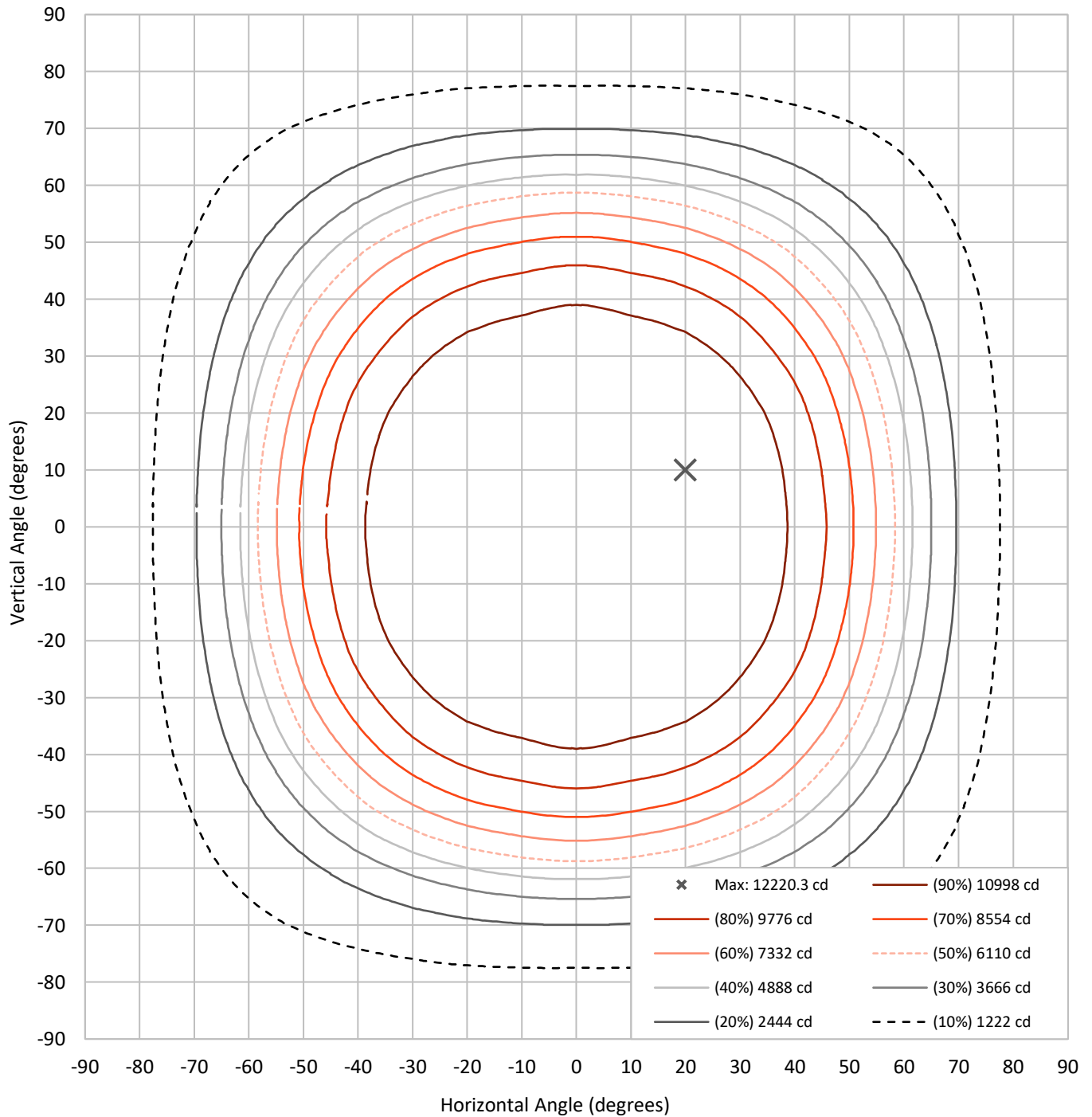
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37490.2 lumens	Max Intensity:	12220.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	133.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	23004.8 lumens	Field Lumens:	27578.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 281
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



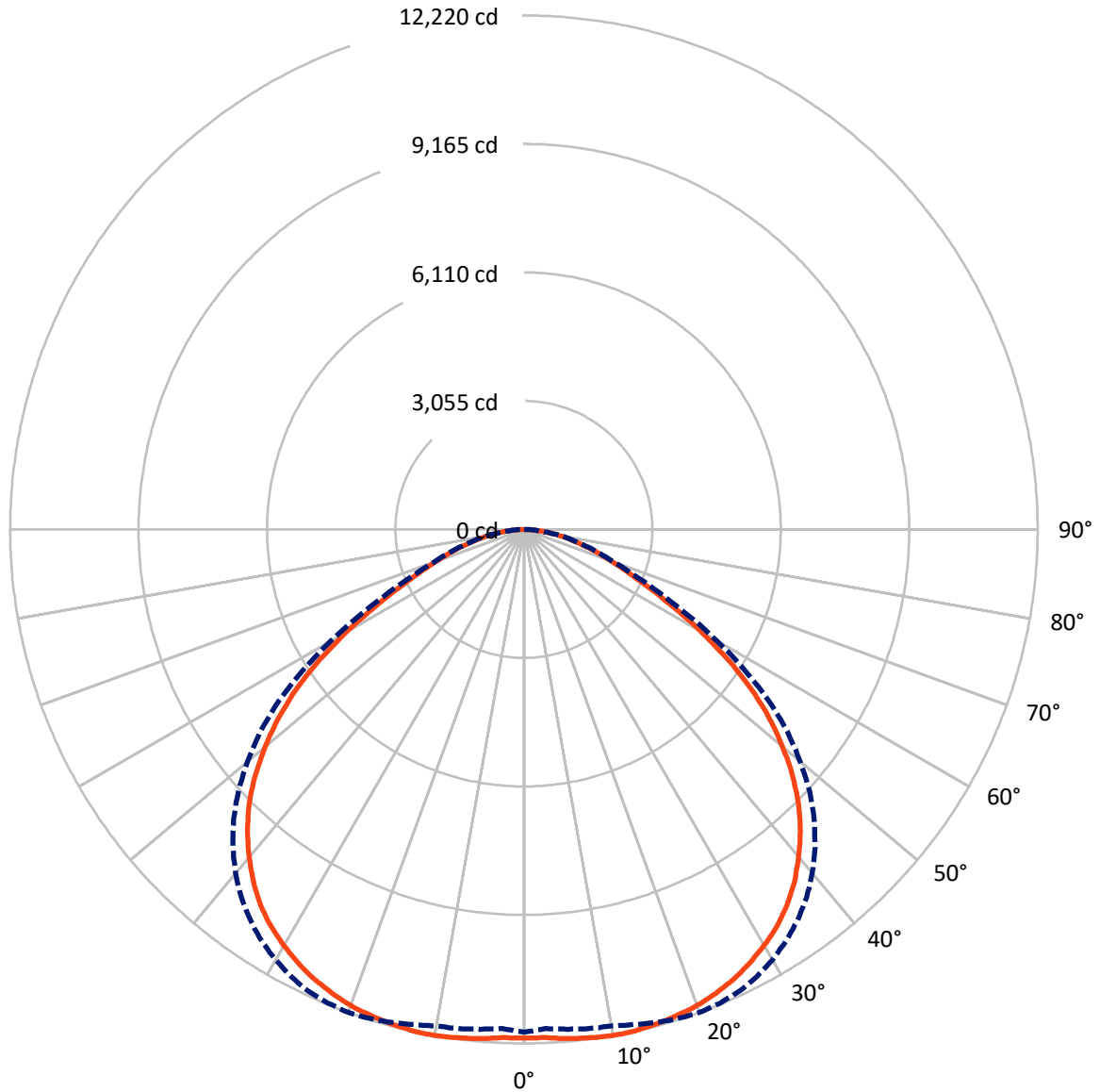
REPORT NUMBER: P628316
CATALOG NUMBER: IFLD-L-SA7B-750-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628316
CATALOG NUMBER: IFLD-L-SA7B-750-U-LAM

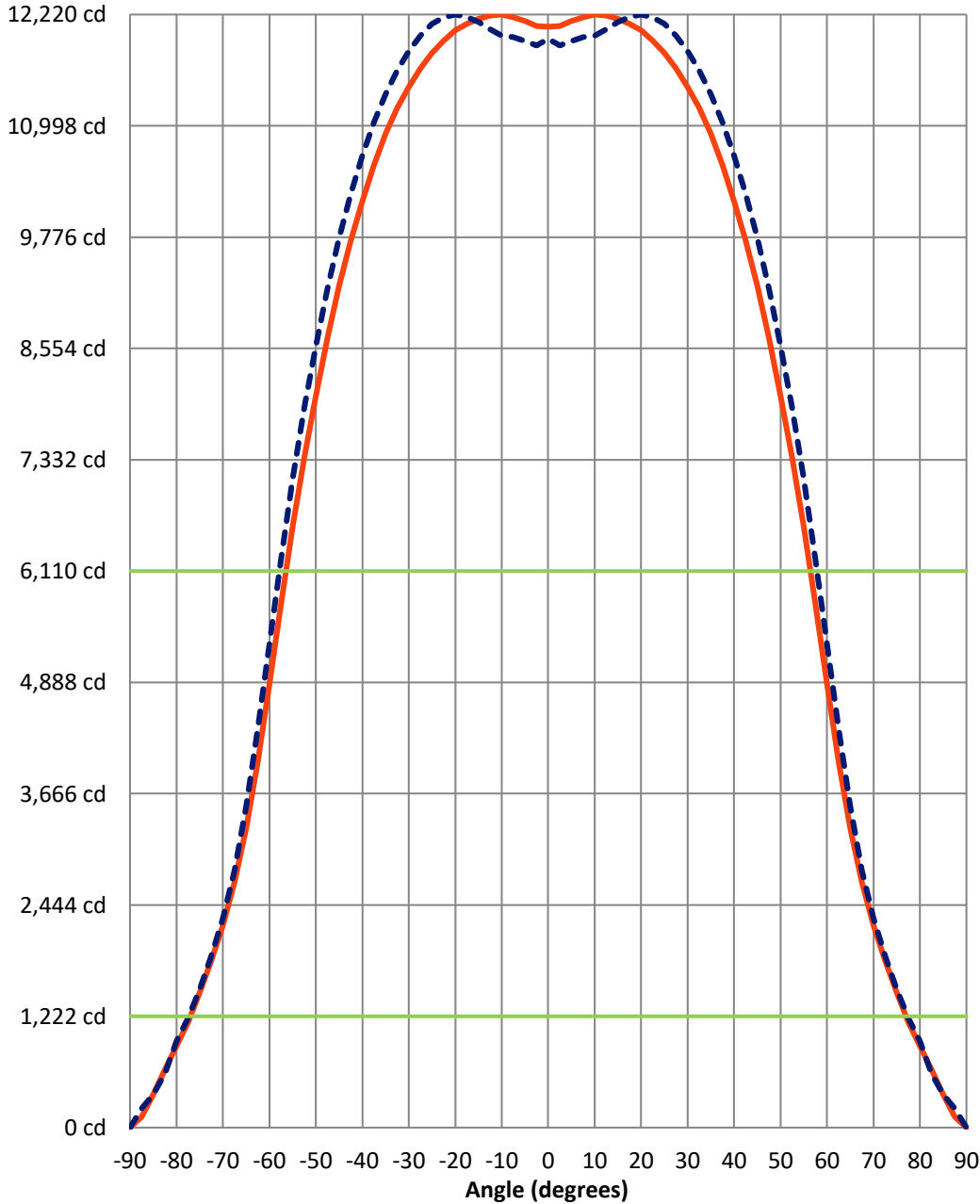
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628316
 CATALOG NUMBER: IFLD-L-SA7B-750-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 23004.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 27578.8
 Efficiency: 73.6%

Spill:
 Lumens: 9911.4
 Efficiency: 26.4%

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



REPORT NUMBER: P628316
 CATALOG NUMBER: IFLD-L-SA7B-750-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°	98.6	106.5	110.4	114.4	118.3	122.3	126.2	122.3	118.3	118.3	114.4
85°	264.3	272.2	276.1	303.7	331.3	347.1	366.8	362.9	362.9	359.0	355.0
82.5°	528.6	552.2	572.0	599.6	615.4	639.0	654.8	643.0	635.1	619.3	607.5
80°	938.8	946.7	950.6	954.6	934.9	930.9	923.0	911.2	895.4	875.7	856.0
77.5°	1195.2	1203.1	1211.0	1203.1	1199.2	1195.2	1183.4	1171.5	1155.8	1140.0	1116.3
75°	1581.8	1581.8	1581.8	1569.9	1562.1	1550.2	1530.5	1510.8	1483.2	1451.6	1416.1
72.5°	1992.0	1988.1	1984.1	1960.5	1940.7	1917.1	1889.5	1865.8	1834.2	1798.7	1751.4
70°	2422.0	2429.9	2433.8	2402.2	2378.6	2347.0	2311.5	2268.1	2220.8	2169.5	2102.5
67.5°	3013.7	3005.8	2997.9	2954.5	2922.9	2879.5	2828.3	2765.1	2694.1	2615.3	2520.6
65°	3747.3	3759.2	3735.5	3692.1	3633.0	3562.0	3483.1	3392.3	3285.8	3167.5	3033.4
62.5°	4634.9	4654.6	4627.0	4571.8	4496.8	4402.1	4291.7	4161.5	4015.6	3849.9	3684.2
60°	5644.7	5640.7	5589.5	5514.5	5415.9	5297.6	5175.3	5033.3	4867.6	4674.3	4473.2
57.5°	6571.7	6563.8	6500.7	6425.7	6327.1	6200.9	6070.7	5920.8	5747.3	5542.1	5309.4
55°	7404.0	7396.1	7333.0	7254.1	7151.5	7025.3	6907.0	6765.0	6595.3	6378.4	6129.9
52.5°	8141.6	8145.6	8090.3	8003.5	7893.1	7770.8	7656.4	7514.4	7352.7	7135.7	6895.1
50°	8820.1	8816.1	8757.0	8678.1	8575.5	8457.2	8342.8	8200.8	8031.2	7822.1	7589.4
47.5°	9451.2	9443.3	9376.3	9289.5	9183.0	9080.4	8973.9	8847.7	8670.2	8461.1	8228.4
45°	9979.8	9964.0	9896.9	9814.1	9711.6	9620.8	9526.2	9431.5	9242.1	9048.9	8828.0
42.5°	10433.4	10429.5	10362.4	10279.6	10177.0	10098.1	10011.3	9893.0	9735.2	9557.7	9340.8
40°	10867.3	10835.8	10768.7	10689.8	10595.1	10528.1	10441.3	10323.0	10169.1	9995.6	9786.5
37.5°	11190.8	11194.7	11123.7	11036.9	10954.1	10891.0	10812.1	10701.6	10567.5	10397.9	10188.8
35°	11498.4	11478.7	11419.6	11344.6	11269.7	11198.7	11115.8	11021.2	10910.7	10752.9	10555.7
32.5°	11699.6	11727.2	11656.2	11577.3	11533.9	11478.7	11391.9	11293.3	11194.7	11036.9	10859.4
30°	11920.5	11896.8	11841.6	11774.6	11743.0	11707.5	11632.6	11537.9	11423.5	11281.5	11115.8
27.5°	12074.4	12062.5	11995.5	11932.4	11916.6	11885.0	11825.8	11743.0	11628.6	11490.6	11336.7
25°	12141.4	12149.3	12086.2	12050.7	12050.7	12031.0	11983.6	11912.6	11798.2	11672.0	11522.1
22.5°	12173.0	12165.1	12121.7	12113.8	12133.5	12117.7	12098.0	12034.9	11932.4	11829.8	11703.6
20°	12192.7	12137.5	12098.0	12129.6	12153.2	12149.3	12133.5	12094.1	12046.7	11960.0	11849.5
17.5°	12149.3	12113.8	12066.5	12113.8	12165.1	12169.0	12153.2	12129.6	12117.7	12062.5	11963.9
15°	12042.8	12015.2	12023.1	12070.4	12129.6	12149.3	12161.1	12188.7	12173.0	12129.6	12042.8
12.5°	11971.8	11936.3	11971.8	12019.1	12050.7	12062.5	12157.2	12208.5	12208.5	12169.0	12113.8
10°	11952.1	11881.1	11928.4	11971.8	11987.6	12058.6	12137.5	12192.7	12220.3	12188.7	12117.7
7.5°	11912.6	11865.3	11885.0	11904.7	11995.5	12046.7	12090.1	12149.3	12188.7	12184.8	12121.7
5°	11892.9	11833.7	11841.6	11924.5	11987.6	12023.1	12038.9	12090.1	12149.3	12161.1	12113.8
2.5°	11841.6	11814.0	11873.2	11881.1	11928.4	11956.0	11971.8	12019.1	12094.1	12121.7	12102.0
0°	11814.0	11774.6	11735.1	11766.7	11845.6	11904.7	11928.4	11999.4	12086.2	12113.8	12070.4



REPORT NUMBER: P628316
 CATALOG NUMBER: IFLD-L-SA7B-750-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°	110.4	106.5	102.6	98.6	102.6	102.6	102.6	98.6	102.6	98.6	98.6
85°	343.2	327.4	315.6	299.8	284.0	272.2	256.4	240.6	236.7	232.7	224.8
82.5°	591.7	572.0	552.2	528.6	504.9	477.3	449.7	418.1	410.2	402.3	390.5
80°	832.3	804.7	777.1	749.5	725.8	698.2	666.6	631.1	607.5	587.7	564.1
77.5°	1084.8	1045.3	1005.9	958.5	930.9	903.3	871.8	836.3	800.7	769.2	733.7
75°	1372.7	1329.3	1289.9	1242.5	1191.3	1140.0	1088.7	1041.4	990.1	942.8	895.4
72.5°	1692.2	1629.1	1566.0	1506.8	1443.7	1380.6	1313.5	1250.4	1187.3	1124.2	1057.1
70°	2027.5	1948.6	1869.7	1790.8	1708.0	1625.2	1546.3	1467.4	1388.5	1305.7	1230.7
67.5°	2422.0	2331.2	2228.7	2118.2	1996.0	1889.5	1786.9	1692.2	1597.6	1502.9	1408.2
65°	2915.0	2788.8	2650.8	2500.9	2358.9	2216.9	2067.0	1925.0	1814.5	1704.1	1597.6
62.5°	3522.5	3345.0	3151.7	2958.4	2784.9	2599.5	2425.9	2240.5	2067.0	1909.2	1779.0
60°	4248.3	4007.7	3771.0	3522.5	3281.9	3029.4	2808.5	2579.8	2362.8	2169.5	1980.2
57.5°	5049.1	4769.0	4485.0	4181.3	3853.9	3558.0	3258.2	2958.4	2702.0	2445.6	2232.6
55°	5861.6	5565.8	5246.3	4903.1	4544.2	4165.5	3759.2	3423.9	3072.8	2773.0	2496.9
52.5°	6634.8	6327.1	5995.8	5680.2	5250.2	4816.3	4370.6	3928.8	3518.6	3135.9	2800.7
50°	7325.1	7025.3	6705.8	6338.9	5940.5	5479.0	4982.0	4485.0	3999.8	3550.1	3132.0
47.5°	7956.2	7664.3	7344.8	6978.0	6615.1	6102.3	5601.3	5053.0	4512.6	3995.9	3506.7
45°	8547.9	8252.1	7920.7	7569.6	7151.5	6693.9	6177.2	5625.0	5045.1	4465.3	3901.2
42.5°	9084.4	8788.5	8453.2	8090.3	7676.1	7222.5	6721.6	6165.4	5581.6	4950.4	4331.1
40°	9553.8	9265.8	8942.4	8563.7	8177.1	7699.8	7206.7	6678.2	6074.7	5439.6	4757.2
37.5°	9964.0	9695.8	9376.3	9001.5	8591.3	8165.3	7656.4	7127.9	6583.5	5893.2	5195.0
35°	10326.9	10078.4	9751.0	9396.0	8993.6	8544.0	8066.7	7549.9	6962.2	6315.3	5636.8
32.5°	10642.5	10390.0	10090.2	9735.2	9344.7	8922.6	8433.5	7912.8	7356.6	6697.9	5960.3
30°	10910.7	10666.1	10382.1	10046.8	9672.1	9254.0	8776.7	8252.1	7684.0	7029.2	6299.5
27.5°	11143.4	10910.7	10634.6	10323.0	9964.0	9561.7	9080.4	8551.8	7972.0	7340.9	6611.1
25°	11344.6	11119.8	10863.4	10567.5	10212.5	9818.1	9364.4	8812.2	8232.3	7597.3	6875.4
22.5°	11526.1	11309.1	11052.7	10764.8	10441.3	10046.8	9589.3	9041.0	8453.2	7826.0	7116.0
20°	11687.8	11486.6	11234.2	10938.3	10614.9	10216.5	9762.8	9242.1	8650.5	8035.1	7333.0
17.5°	11818.0	11640.5	11388.0	11076.4	10752.9	10366.4	9924.6	9447.3	8820.1	8212.6	7514.4
15°	11908.7	11735.1	11506.3	11190.8	10875.2	10492.6	10050.8	9557.7	8973.9	8354.6	7664.3
12.5°	11971.8	11786.4	11573.4	11281.5	10965.9	10587.2	10157.3	9672.1	9104.1	8480.8	7794.5
10°	11987.6	11818.0	11605.0	11344.6	11036.9	10670.1	10248.0	9766.8	9210.6	8579.5	7901.0
7.5°	11995.5	11833.7	11640.5	11391.9	11088.2	10733.2	10315.1	9841.7	9289.5	8662.3	7979.9
5°	11991.5	11837.7	11664.1	11423.5	11119.8	10768.7	10358.5	9893.0	9344.7	8717.5	8039.1
2.5°	11979.7	11841.6	11679.9	11447.2	11155.3	10808.1	10401.9	9952.2	9403.9	8764.9	8086.4
0°	12011.2	11892.9	11687.8	11439.3	11163.2	10808.1	10397.9	9960.1	9411.8	8760.9	8082.4



REPORT NUMBER: P628316
 CATALOG NUMBER: IFLD-L-SA7B-750-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°	98.6	94.7	94.7	90.7	86.8	82.8	74.9	71.0	63.1	51.3	39.4
85°	213.0	201.2	189.3	181.5	173.6	165.7	153.8	142.0	126.2	102.6	78.9
82.5°	374.7	351.1	327.4	299.8	276.1	252.5	232.7	213.0	189.3	153.8	118.3
80°	536.5	501.0	465.5	426.0	390.5	351.1	315.6	284.0	252.5	205.1	157.8
77.5°	698.2	650.9	599.6	552.2	501.0	449.7	398.4	355.0	307.7	252.5	197.2
75°	848.1	792.9	745.5	678.5	615.4	548.3	481.2	422.1	362.9	295.8	236.7
72.5°	998.0	927.0	859.9	796.8	725.8	643.0	568.0	493.1	418.1	339.2	268.2
70°	1147.9	1061.1	978.3	903.3	824.4	741.6	650.9	564.1	473.3	378.7	295.8
67.5°	1301.7	1203.1	1108.4	1013.8	923.0	828.4	733.7	635.1	528.6	418.1	327.4
65°	1471.3	1349.0	1234.7	1128.1	1021.6	919.1	812.6	706.1	587.7	461.5	355.0
62.5°	1640.9	1506.8	1372.7	1238.6	1120.3	1005.9	891.5	773.1	643.0	508.9	382.6
60°	1822.4	1668.6	1514.7	1364.8	1218.9	1092.6	966.4	840.2	702.1	552.2	410.2
57.5°	2023.6	1838.2	1664.6	1495.0	1329.3	1179.4	1041.4	907.3	753.4	595.6	441.8
55°	2252.4	2023.6	1818.5	1629.1	1447.7	1266.2	1116.3	978.3	812.6	639.0	477.3
52.5°	2493.0	2228.7	1980.2	1767.2	1573.9	1368.8	1187.3	1033.5	871.8	682.4	508.9
50°	2773.0	2437.7	2161.6	1901.3	1684.3	1471.3	1262.3	1096.6	930.9	733.7	540.4
47.5°	3061.0	2690.2	2343.1	2059.1	1802.7	1569.9	1349.0	1151.8	986.1	781.0	572.0
45°	3396.3	2930.8	2548.2	2212.9	1917.1	1672.5	1435.8	1211.0	1033.5	828.4	603.5
42.5°	3719.7	3214.8	2761.2	2382.5	2047.2	1771.1	1514.7	1274.1	1080.8	875.7	631.1
40°	4102.4	3498.8	2966.3	2544.3	2177.4	1865.8	1593.6	1341.2	1124.2	919.1	658.7
37.5°	4469.2	3786.8	3214.8	2721.8	2303.6	1960.5	1672.5	1404.3	1163.7	962.5	694.2
35°	4832.1	4106.3	3451.5	2887.4	2433.8	2067.0	1751.4	1463.4	1203.1	998.0	725.8
32.5°	5179.2	4406.1	3692.1	3072.8	2575.8	2165.6	1822.4	1518.7	1242.5	1029.5	757.4
30°	5502.7	4690.1	3928.8	3262.2	2706.0	2256.3	1889.5	1573.9	1289.9	1057.1	788.9
27.5°	5798.5	4966.2	4165.5	3439.7	2828.3	2339.1	1960.5	1625.2	1329.3	1084.8	816.5
25°	6066.8	5214.7	4382.4	3601.4	2938.7	2429.9	2027.5	1676.4	1364.8	1108.4	840.2
22.5°	6319.2	5443.5	4579.7	3763.1	3072.8	2520.6	2090.6	1723.8	1400.3	1132.1	863.9
20°	6540.1	5652.6	4769.0	3924.9	3191.2	2603.4	2145.9	1767.2	1431.9	1147.9	887.5
17.5°	6717.6	5838.0	4938.6	4066.9	3293.7	2674.4	2193.2	1806.6	1459.5	1167.6	903.3
15°	6875.4	5995.8	5080.6	4189.1	3384.4	2733.6	2236.6	1838.2	1483.2	1179.4	923.0
12.5°	7009.5	6129.9	5202.9	4295.6	3463.3	2784.9	2272.1	1861.8	1502.9	1191.3	934.9
10°	7120.0	6236.4	5305.5	4378.5	3526.5	2824.3	2299.7	1885.5	1518.7	1203.1	946.7
7.5°	7202.8	6315.3	5380.4	4449.5	3577.7	2851.9	2323.4	1901.3	1534.4	1211.0	966.4
5°	7265.9	6382.3	5439.6	4496.8	3617.2	2891.4	2351.0	1921.0	1550.2	1218.9	966.4
2.5°	7313.2	6437.6	5486.9	4536.3	3648.7	2883.5	2351.0	1917.1	1550.2	1218.9	962.5
0°	7305.4	6441.5	5483.0	4536.3	3648.7	2875.6	2351.0	1913.1	1550.2	1218.9	962.5



REPORT NUMBER: P628316
 CATALOG NUMBER: IFLD-L-SA7B-750-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.6	19.7	7.9	0.0
85°	59.2	39.4	19.7	0.0
82.5°	86.8	55.2	27.6	0.0
80°	114.4	74.9	35.5	0.0
77.5°	145.9	94.7	47.3	0.0
75°	173.6	110.4	55.2	0.0
72.5°	201.2	130.2	63.1	0.0
70°	224.8	145.9	71.0	0.0
67.5°	248.5	165.7	82.8	0.0
65°	268.2	181.5	90.7	0.0
62.5°	284.0	201.2	98.6	0.0
60°	303.7	217.0	106.5	0.0
57.5°	319.5	228.8	114.4	0.0
55°	335.3	236.7	122.3	0.0
52.5°	351.1	248.5	130.2	0.0
50°	366.8	260.3	138.1	0.0
47.5°	382.6	268.2	142.0	0.0
45°	406.3	280.1	149.9	0.0
42.5°	426.0	288.0	157.8	0.0
40°	445.7	295.8	161.7	0.0
37.5°	465.5	303.7	169.6	0.0
35°	485.2	311.6	173.6	0.0
32.5°	501.0	319.5	177.5	0.0
30°	516.7	327.4	181.5	0.0
27.5°	532.5	331.3	185.4	0.0
25°	544.4	339.2	189.3	0.0
22.5°	556.2	343.2	193.3	0.0
20°	564.1	347.1	197.2	0.0
17.5°	575.9	351.1	201.2	0.0
15°	579.9	355.0	209.1	0.0
12.5°	587.7	359.0	209.1	0.0
10°	591.7	362.9	209.1	0.0
7.5°	599.6	362.9	209.1	0.0
5°	595.6	362.9	209.1	0.0
2.5°	595.6	362.9	209.1	0.0
0°	591.7	362.9	209.1	0.0

(END OF REPORT)