

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: P628167

Luminaire Tested: **IFLD-M-SA4C-722-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628167
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

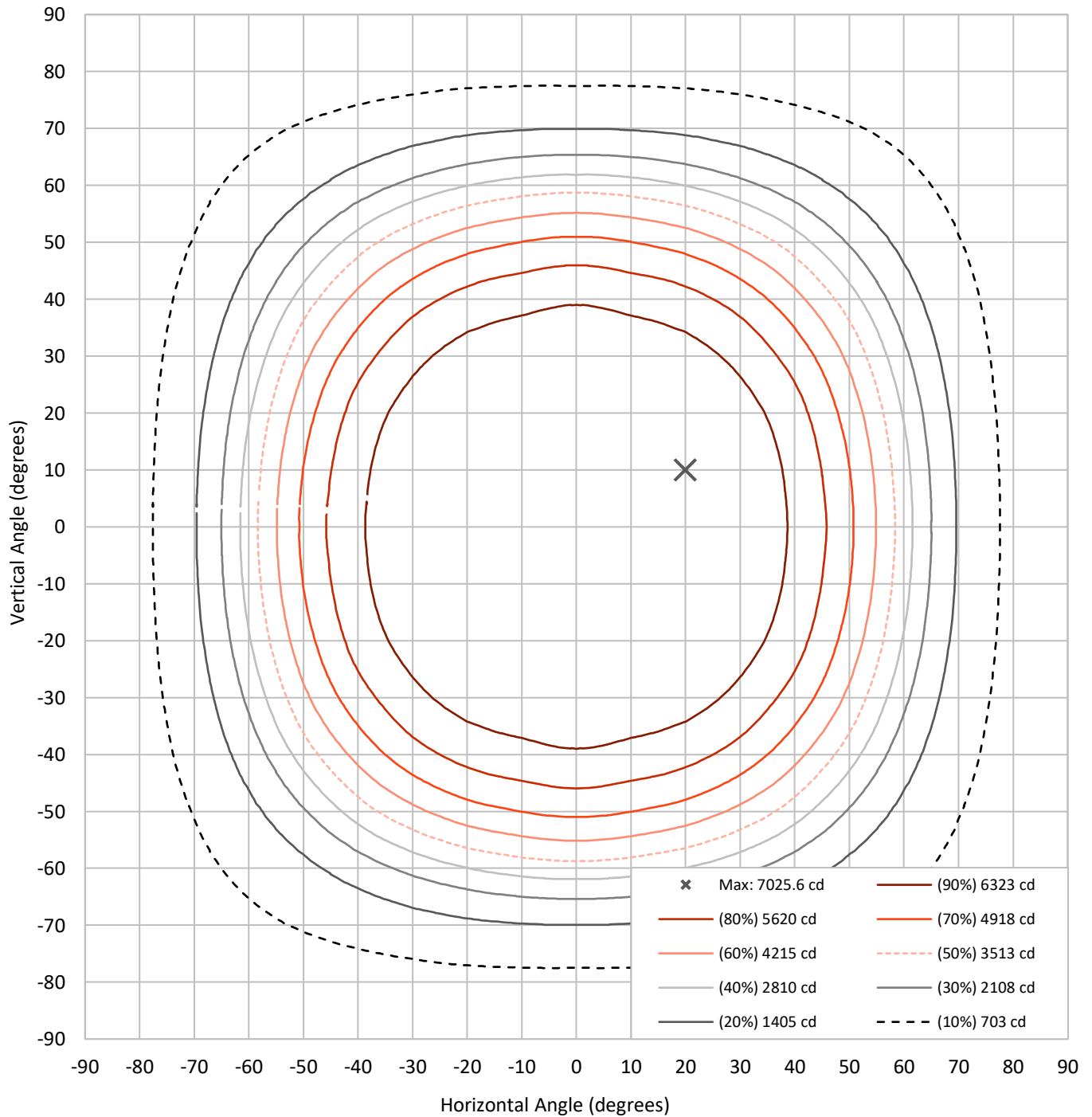
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	21553.7 lumens	Max Intensity:	7025.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	98.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	13225.8 lumens	Field Lumens:	15855.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 218.1
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: P628167
CATALOG NUMBER: IFLD-M-SA4C-722-U-LAM

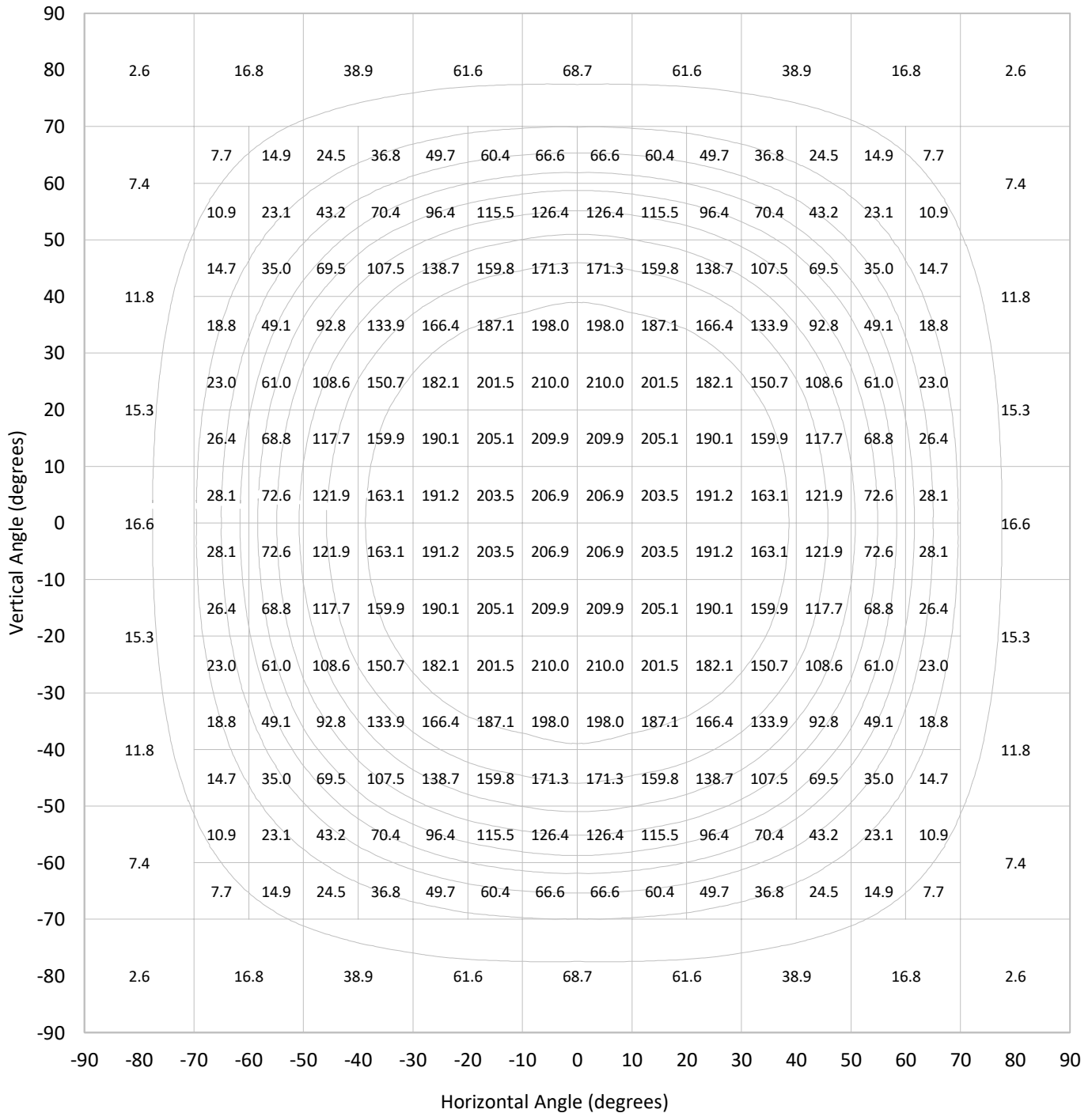
Iso-Candela Plot





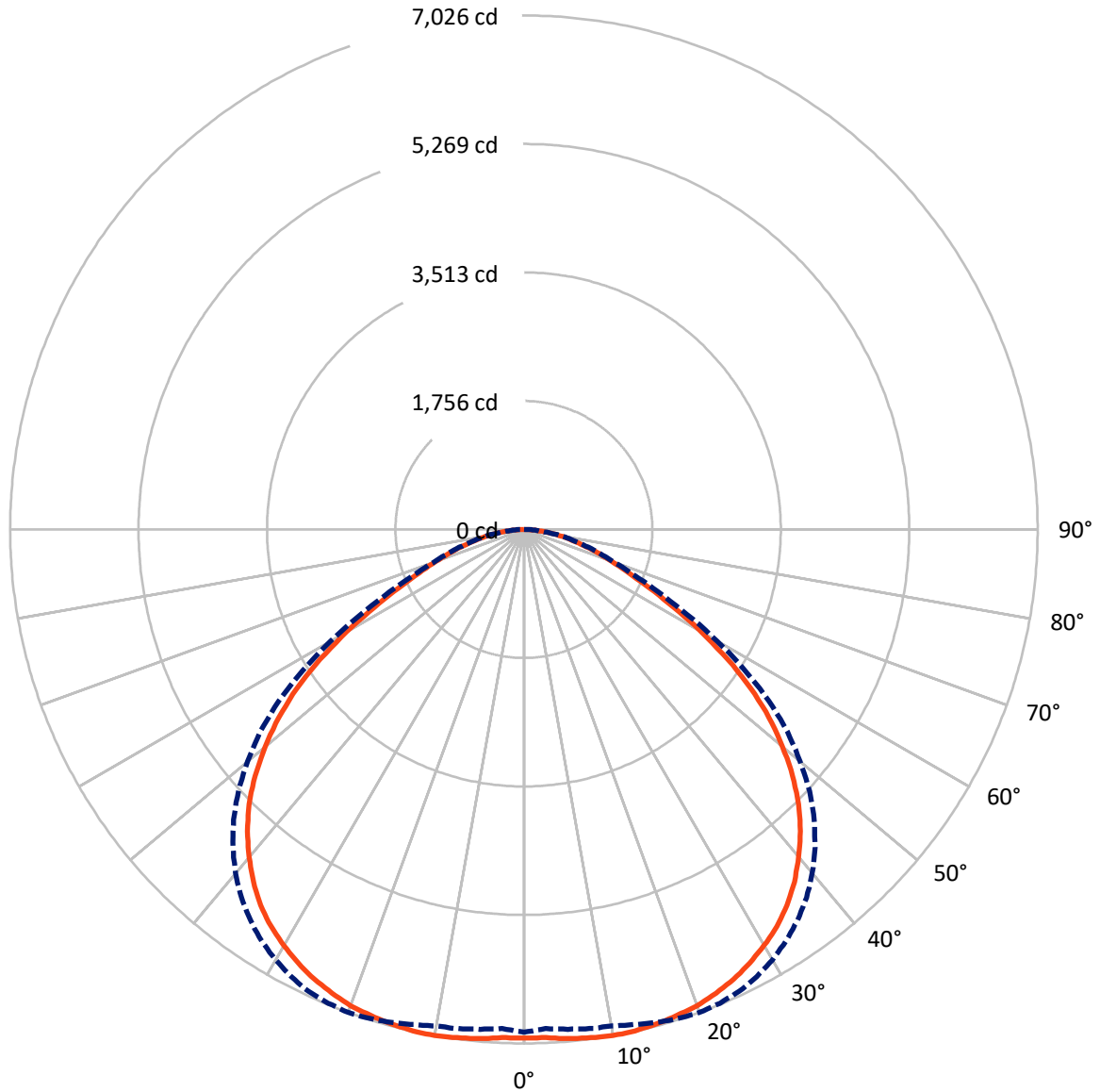
REPORT NUMBER: P628167
 CATALOG NUMBER: IFLD-M-SA4C-722-U-LAM

Lumen Table



REPORT NUMBER: P628167
CATALOG NUMBER: IFLD-M-SA4C-722-U-LAM

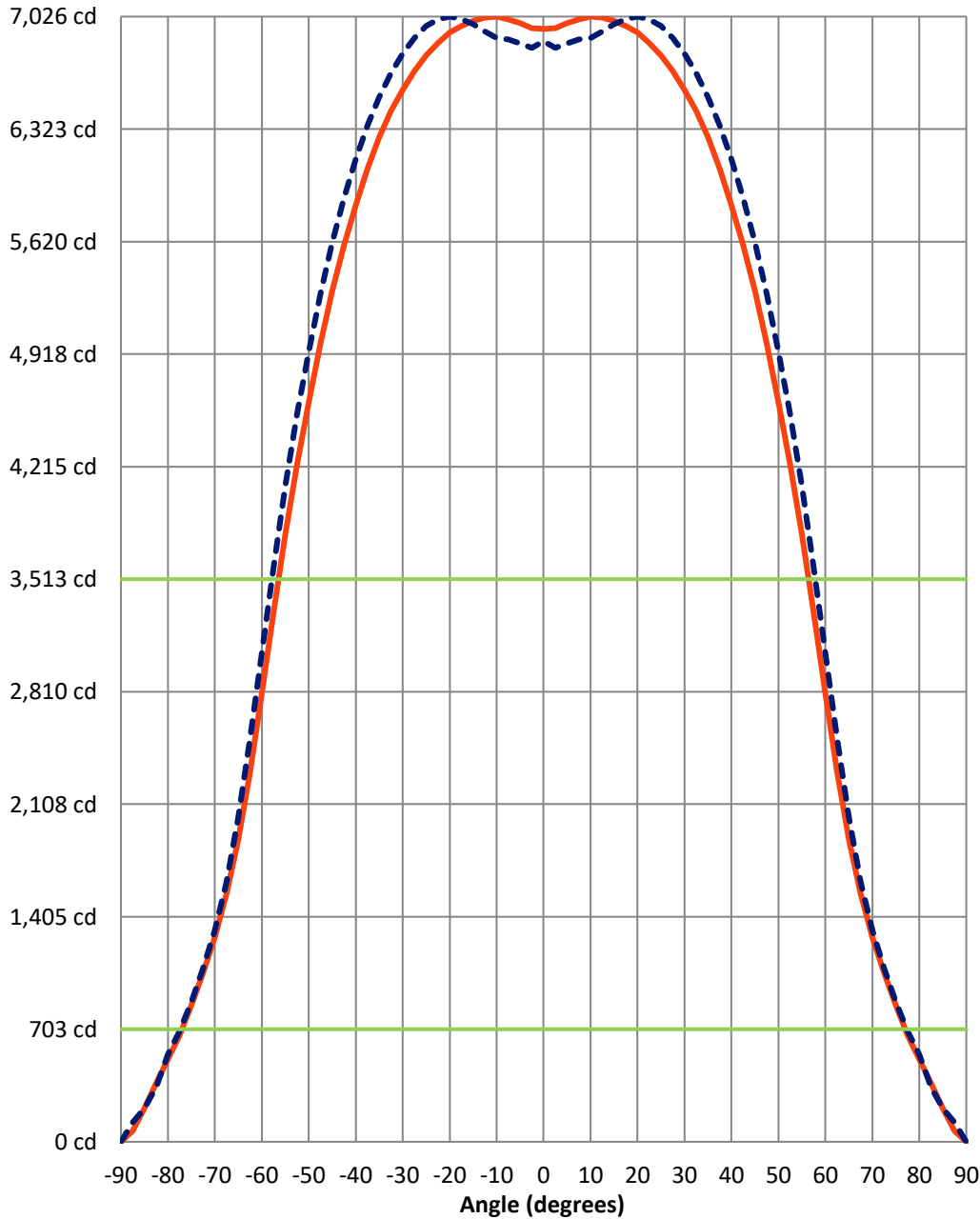
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628167
 CATALOG NUMBER: IFLD-M-SA4C-722-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 13225.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 15855.5
 Efficiency: 73.6%

Spill:
 Lumens: 5698.2
 Efficiency: 26.4%

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



REPORT NUMBER: P628167
 CATALOG NUMBER: IFLD-M-SA4C-722-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°	56.7	61.2	63.5	65.8	68.0	70.3	72.6	70.3	68.0	68.0	65.8
85°	151.9	156.5	158.7	174.6	190.5	199.6	210.9	208.6	208.6	206.4	204.1
82.5°	303.9	317.5	328.8	344.7	353.8	367.4	376.5	369.7	365.1	356.0	349.2
80°	539.7	544.3	546.5	548.8	537.5	535.2	530.7	523.9	514.8	503.5	492.1
77.5°	687.1	691.7	696.2	691.7	689.4	687.1	680.3	673.5	664.5	655.4	641.8
75°	909.4	909.4	909.4	902.6	898.0	891.2	879.9	868.6	852.7	834.5	814.1
72.5°	1145.2	1143.0	1140.7	1127.1	1115.8	1102.1	1086.3	1072.7	1054.5	1034.1	1006.9
70°	1392.4	1397.0	1399.2	1381.1	1367.5	1349.3	1328.9	1304.0	1276.8	1247.3	1208.7
67.5°	1732.6	1728.1	1723.5	1698.6	1680.4	1655.5	1626.0	1589.7	1548.9	1503.6	1449.1
65°	2154.4	2161.2	2147.6	2122.7	2088.6	2047.8	2002.5	1950.3	1889.1	1821.0	1743.9
62.5°	2664.7	2676.0	2660.1	2628.4	2585.3	2530.9	2467.4	2392.5	2308.6	2213.4	2118.1
60°	3245.2	3243.0	3213.5	3170.4	3113.7	3045.7	2975.4	2893.7	2798.5	2687.3	2571.7
57.5°	3778.2	3773.6	3737.3	3694.2	3637.5	3565.0	3490.1	3404.0	3304.2	3186.3	3052.5
55°	4256.7	4252.1	4215.8	4170.5	4111.5	4038.9	3970.9	3889.3	3791.8	3667.0	3524.2
52.5°	4680.7	4683.0	4651.3	4601.4	4537.9	4467.6	4401.8	4320.2	4227.2	4102.4	3964.1
50°	5070.8	5068.5	5034.5	4989.2	4930.2	4862.2	4796.4	4714.8	4617.2	4497.0	4363.2
47.5°	5433.6	5429.1	5390.6	5340.7	5279.4	5220.5	5159.2	5086.7	4984.6	4864.4	4730.6
45°	5737.5	5728.5	5689.9	5642.3	5583.3	5531.2	5476.7	5422.3	5313.5	5202.3	5075.3
42.5°	5998.3	5996.1	5957.5	5909.9	5850.9	5805.6	5755.7	5687.6	5596.9	5494.9	5370.1
40°	6247.8	6229.6	6191.1	6145.7	6091.3	6052.8	6002.9	5934.8	5846.4	5746.6	5626.4
37.5°	6433.7	6436.0	6395.2	6345.3	6297.7	6261.4	6216.0	6152.5	6075.4	5977.9	5857.7
35°	6610.6	6599.3	6565.3	6522.2	6479.1	6438.3	6390.7	6336.2	6272.7	6182.0	6068.6
32.5°	6726.3	6742.2	6701.3	6656.0	6631.0	6599.3	6549.4	6492.7	6436.0	6345.3	6243.2
30°	6853.3	6839.7	6807.9	6769.4	6751.2	6730.8	6687.7	6633.3	6567.5	6485.9	6390.7
27.5°	6941.7	6934.9	6896.4	6860.1	6851.0	6832.9	6798.9	6751.2	6685.5	6606.1	6517.7
25°	6980.3	6984.8	6948.5	6928.1	6928.1	6916.8	6889.6	6848.7	6783.0	6710.4	6624.2
22.5°	6998.4	6993.9	6968.9	6964.4	6975.7	6966.7	6955.3	6919.1	6860.1	6801.1	6728.6
20°	7009.8	6978.0	6955.3	6973.5	6987.1	6984.8	6975.7	6953.1	6925.9	6876.0	6812.5
17.5°	6984.8	6964.4	6937.2	6964.4	6993.9	6996.2	6987.1	6973.5	6966.7	6934.9	6878.2
15°	6923.6	6907.7	6912.2	6939.5	6973.5	6984.8	6991.6	7007.5	6998.4	6973.5	6923.6
12.5°	6882.8	6862.4	6882.8	6910.0	6928.1	6934.9	6989.4	7018.8	7018.8	6996.2	6964.4
10°	6871.4	6830.6	6857.8	6882.8	6891.8	6932.7	6978.0	7009.8	7025.6	7007.5	6966.7
7.5°	6848.7	6821.5	6832.9	6844.2	6896.4	6925.9	6950.8	6984.8	7007.5	7005.2	6968.9
5°	6837.4	6803.4	6807.9	6855.6	6891.8	6912.2	6921.3	6950.8	6984.8	6991.6	6964.4
2.5°	6807.9	6792.1	6826.1	6830.6	6857.8	6873.7	6882.8	6910.0	6953.1	6968.9	6957.6
0°	6792.1	6769.4	6746.7	6764.8	6810.2	6844.2	6857.8	6898.6	6948.5	6964.4	6939.5



REPORT NUMBER: P628167
 CATALOG NUMBER: IFLD-M-SA4C-722-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°	63.5	61.2	59.0	56.7	59.0	59.0	59.0	56.7	59.0	56.7	56.7
85°	197.3	188.2	181.4	172.4	163.3	156.5	147.4	138.3	136.1	133.8	129.3
82.5°	340.2	328.8	317.5	303.9	290.3	274.4	258.5	240.4	235.9	231.3	224.5
80°	478.5	462.6	446.8	430.9	417.3	401.4	383.3	362.8	349.2	337.9	324.3
77.5°	623.6	601.0	578.3	551.1	535.2	519.3	501.2	480.8	460.4	442.2	421.8
75°	789.2	764.2	741.6	714.4	684.9	655.4	625.9	598.7	569.2	542.0	514.8
72.5°	972.9	936.6	900.3	866.3	830.0	793.7	755.2	718.9	682.6	646.3	607.8
70°	1165.6	1120.3	1074.9	1029.6	982.0	934.3	889.0	843.6	798.3	750.6	707.6
67.5°	1392.4	1340.3	1281.3	1217.8	1147.5	1086.3	1027.3	972.9	918.5	864.0	809.6
65°	1675.9	1603.3	1524.0	1437.8	1356.1	1274.5	1188.3	1106.7	1043.2	979.7	918.5
62.5°	2025.1	1923.1	1812.0	1700.8	1601.1	1494.5	1394.7	1288.1	1188.3	1097.6	1022.8
60°	2442.4	2304.1	2168.0	2025.1	1886.8	1741.7	1614.7	1483.1	1358.4	1247.3	1138.4
57.5°	2902.8	2741.8	2578.5	2403.9	2215.6	2045.6	1873.2	1700.8	1553.4	1406.0	1283.6
55°	3369.9	3199.9	3016.2	2818.9	2612.5	2394.8	2161.2	1968.4	1766.6	1594.3	1435.5
52.5°	3814.4	3637.5	3447.1	3265.6	3018.4	2769.0	2512.7	2258.7	2022.9	1802.9	1610.1
50°	4211.3	4038.9	3855.3	3644.4	3415.3	3150.0	2864.2	2578.5	2299.5	2041.0	1800.6
47.5°	4574.1	4406.3	4222.6	4011.7	3803.1	3508.3	3220.3	2905.0	2594.4	2297.3	2016.1
45°	4914.3	4744.2	4553.7	4351.9	4111.5	3848.5	3551.4	3233.9	2900.5	2567.1	2242.9
42.5°	5222.7	5052.7	4859.9	4651.3	4413.1	4152.3	3864.3	3544.6	3208.9	2846.1	2490.0
40°	5492.6	5327.1	5141.1	4923.4	4701.1	4426.7	4143.3	3839.4	3492.4	3127.3	2735.0
37.5°	5728.5	5574.2	5390.6	5175.1	4939.3	4694.3	4401.8	4097.9	3785.0	3388.1	2986.7
35°	5937.1	5794.2	5606.0	5401.9	5170.6	4912.1	4637.6	4340.6	4002.7	3630.7	3240.7
32.5°	6118.5	5973.4	5801.0	5596.9	5372.4	5129.8	4848.6	4549.2	4229.4	3850.7	3426.6
30°	6272.7	6132.1	5968.8	5776.1	5560.6	5320.3	5045.9	4744.2	4417.7	4041.2	3621.7
27.5°	6406.5	6272.7	6114.0	5934.8	5728.5	5497.1	5220.5	4916.6	4583.2	4220.4	3800.8
25°	6522.2	6392.9	6245.5	6075.4	5871.3	5644.5	5383.8	5066.3	4732.9	4367.8	3952.8
22.5°	6626.5	6501.8	6354.4	6188.8	6002.9	5776.1	5513.0	5197.8	4859.9	4499.3	4091.1
20°	6719.5	6603.8	6458.7	6288.6	6102.6	5873.6	5612.8	5313.5	4973.3	4619.5	4215.8
17.5°	6794.3	6692.3	6547.1	6368.0	6182.0	5959.8	5705.8	5431.4	5070.8	4721.6	4320.2
15°	6846.5	6746.7	6615.2	6433.7	6252.3	6032.3	5778.3	5494.9	5159.2	4803.2	4406.3
12.5°	6882.8	6776.2	6653.7	6485.9	6304.5	6086.8	5839.6	5560.6	5234.1	4875.8	4481.2
10°	6891.8	6794.3	6671.9	6522.2	6345.3	6134.4	5891.7	5615.1	5295.3	4932.5	4542.4
7.5°	6896.4	6803.4	6692.3	6549.4	6374.8	6170.7	5930.3	5658.2	5340.7	4980.1	4587.8
5°	6894.1	6805.7	6705.9	6567.5	6392.9	6191.1	5955.2	5687.6	5372.4	5011.8	4621.8
2.5°	6887.3	6807.9	6714.9	6581.1	6413.3	6213.8	5980.2	5721.7	5406.4	5039.0	4649.0
0°	6905.4	6837.4	6719.5	6576.6	6417.9	6213.8	5977.9	5726.2	5411.0	5036.8	4646.7



REPORT NUMBER: P628167
 CATALOG NUMBER: IFLD-M-SA4C-722-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°	56.7	54.4	54.4	52.2	49.9	47.6	43.1	40.8	36.3	29.5	22.7
85°	122.5	115.7	108.9	104.3	99.8	95.2	88.4	81.6	72.6	59.0	45.4
82.5°	215.4	201.8	188.2	172.4	158.7	145.1	133.8	122.5	108.9	88.4	68.0
80°	308.4	288.0	267.6	244.9	224.5	201.8	181.4	163.3	145.1	117.9	90.7
77.5°	401.4	374.2	344.7	317.5	288.0	258.5	229.0	204.1	176.9	145.1	113.4
75°	487.6	455.8	428.6	390.1	353.8	315.2	276.7	242.7	208.6	170.1	136.1
72.5°	573.8	532.9	494.4	458.1	417.3	369.7	326.6	283.5	240.4	195.0	154.2
70°	659.9	610.0	562.4	519.3	474.0	426.3	374.2	324.3	272.1	217.7	170.1
67.5°	748.4	691.7	637.3	582.8	530.7	476.2	421.8	365.1	303.9	240.4	188.2
65°	845.9	775.6	709.8	648.6	587.4	528.4	467.2	405.9	337.9	265.3	204.1
62.5°	943.4	866.3	789.2	712.1	644.1	578.3	512.5	444.5	369.7	292.5	220.0
60°	1047.7	959.3	870.8	784.7	700.7	628.2	555.6	483.0	403.7	317.5	235.9
57.5°	1163.4	1056.8	957.0	859.5	764.2	678.1	598.7	521.6	433.1	342.4	254.0
55°	1294.9	1163.4	1045.5	936.6	832.3	728.0	641.8	562.4	467.2	367.4	274.4
52.5°	1433.2	1281.3	1138.4	1016.0	904.9	786.9	682.6	594.2	501.2	392.3	292.5
50°	1594.3	1401.5	1242.8	1093.1	968.3	845.9	725.7	630.4	535.2	421.8	310.7
47.5°	1759.8	1546.6	1347.1	1183.8	1036.4	902.6	775.6	662.2	566.9	449.0	328.8
45°	1952.6	1685.0	1465.0	1272.2	1102.1	961.5	825.5	696.2	594.2	476.2	347.0
42.5°	2138.5	1848.3	1587.5	1369.7	1177.0	1018.2	870.8	732.5	621.4	503.5	362.8
40°	2358.5	2011.5	1705.4	1462.7	1251.8	1072.7	916.2	771.1	646.3	528.4	378.7
37.5°	2569.4	2177.1	1848.3	1564.8	1324.4	1127.1	961.5	807.3	669.0	553.3	399.1
35°	2778.1	2360.8	1984.3	1660.0	1399.2	1188.3	1006.9	841.4	691.7	573.8	417.3
32.5°	2977.6	2533.1	2122.7	1766.6	1480.9	1245.0	1047.7	873.1	714.4	591.9	435.4
30°	3163.6	2696.4	2258.7	1875.5	1555.7	1297.2	1086.3	904.9	741.6	607.8	453.6
27.5°	3333.7	2855.2	2394.8	1977.5	1626.0	1344.8	1127.1	934.3	764.2	623.6	469.4
25°	3487.9	2998.0	2519.5	2070.5	1689.5	1397.0	1165.6	963.8	784.7	637.3	483.0
22.5°	3633.0	3129.6	2632.9	2163.5	1766.6	1449.1	1201.9	991.0	805.1	650.9	496.6
20°	3760.0	3249.8	2741.8	2256.5	1834.6	1496.7	1233.7	1016.0	823.2	659.9	510.3
17.5°	3862.1	3356.3	2839.3	2338.1	1893.6	1537.6	1260.9	1038.7	839.1	671.3	519.3
15°	3952.8	3447.1	2920.9	2408.4	1945.8	1571.6	1285.8	1056.8	852.7	678.1	530.7
12.5°	4029.9	3524.2	2991.2	2469.6	1991.1	1601.1	1306.3	1070.4	864.0	684.9	537.5
10°	4093.4	3585.4	3050.2	2517.3	2027.4	1623.7	1322.1	1084.0	873.1	691.7	544.3
7.5°	4141.0	3630.7	3093.3	2558.1	2056.9	1639.6	1335.7	1093.1	882.2	696.2	555.6
5°	4177.3	3669.3	3127.3	2585.3	2079.6	1662.3	1351.6	1104.4	891.2	700.7	555.6
2.5°	4204.5	3701.0	3154.5	2608.0	2097.7	1657.8	1351.6	1102.1	891.2	700.7	553.3
0°	4200.0	3703.3	3152.2	2608.0	2097.7	1653.2	1351.6	1099.9	891.2	700.7	553.3



REPORT NUMBER: P628167
 CATALOG NUMBER: IFLD-M-SA4C-722-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	15.9	11.3	4.5	0.0
85°	34.0	22.7	11.3	0.0
82.5°	49.9	31.7	15.9	0.0
80°	65.8	43.1	20.4	0.0
77.5°	83.9	54.4	27.2	0.0
75°	99.8	63.5	31.7	0.0
72.5°	115.7	74.8	36.3	0.0
70°	129.3	83.9	40.8	0.0
67.5°	142.9	95.2	47.6	0.0
65°	154.2	104.3	52.2	0.0
62.5°	163.3	115.7	56.7	0.0
60°	174.6	124.7	61.2	0.0
57.5°	183.7	131.5	65.8	0.0
55°	192.8	136.1	70.3	0.0
52.5°	201.8	142.9	74.8	0.0
50°	210.9	149.7	79.4	0.0
47.5°	220.0	154.2	81.6	0.0
45°	233.6	161.0	86.2	0.0
42.5°	244.9	165.5	90.7	0.0
40°	256.3	170.1	93.0	0.0
37.5°	267.6	174.6	97.5	0.0
35°	278.9	179.2	99.8	0.0
32.5°	288.0	183.7	102.1	0.0
30°	297.1	188.2	104.3	0.0
27.5°	306.2	190.5	106.6	0.0
25°	313.0	195.0	108.9	0.0
22.5°	319.8	197.3	111.1	0.0
20°	324.3	199.6	113.4	0.0
17.5°	331.1	201.8	115.7	0.0
15°	333.4	204.1	120.2	0.0
12.5°	337.9	206.4	120.2	0.0
10°	340.2	208.6	120.2	0.0
7.5°	344.7	208.6	120.2	0.0
5°	342.4	208.6	120.2	0.0
2.5°	342.4	208.6	120.2	0.0
0°	340.2	208.6	120.2	0.0

(END OF REPORT)