

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: P628262

Luminaire Tested: **IFLD-L-SA8A-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628262
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34772.5 lumens	Max Intensity:	11334.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	140.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

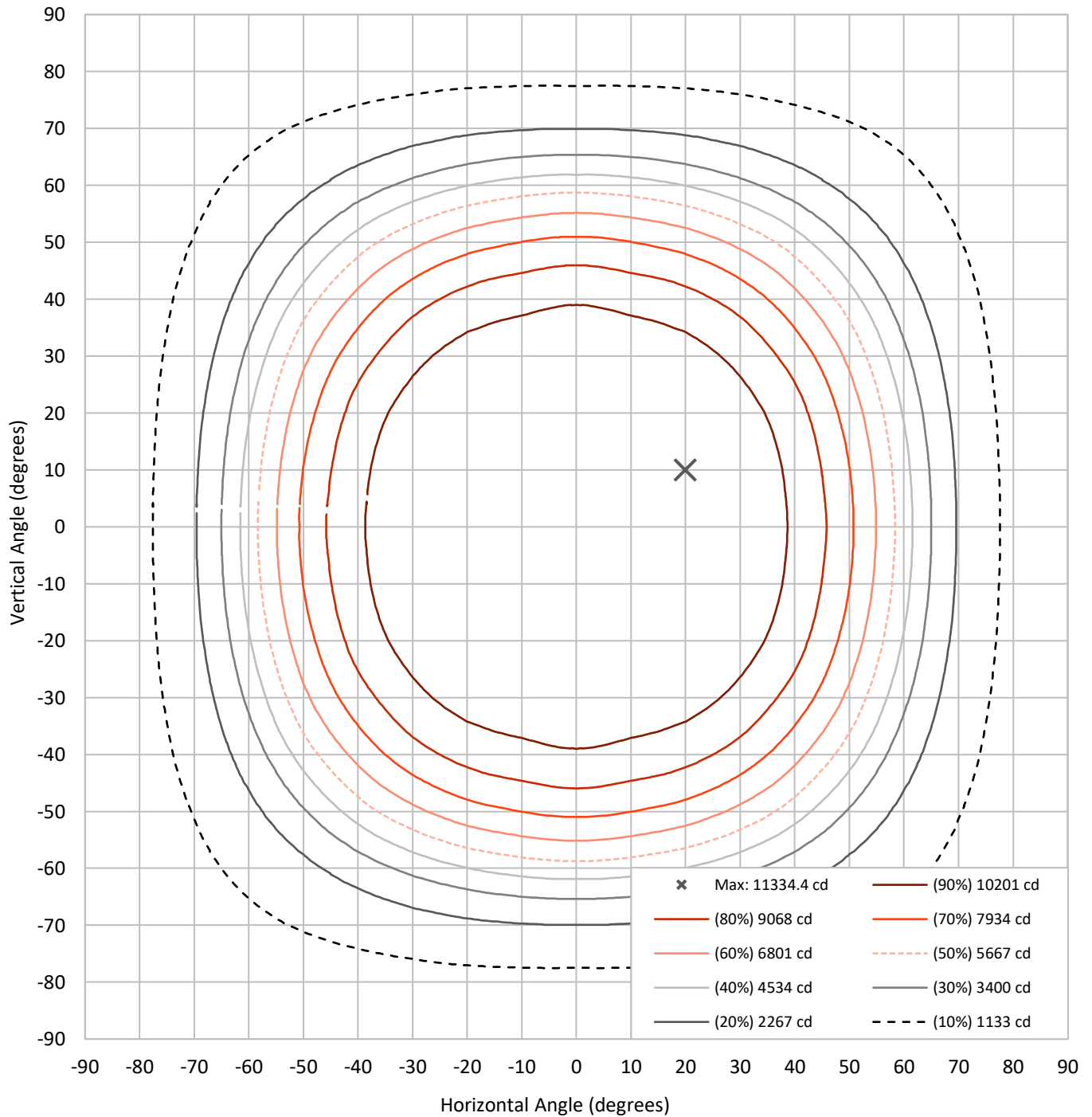
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21337.1 lumens	Field Lumens:	25579.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



REPORT NUMBER: P628262
CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM

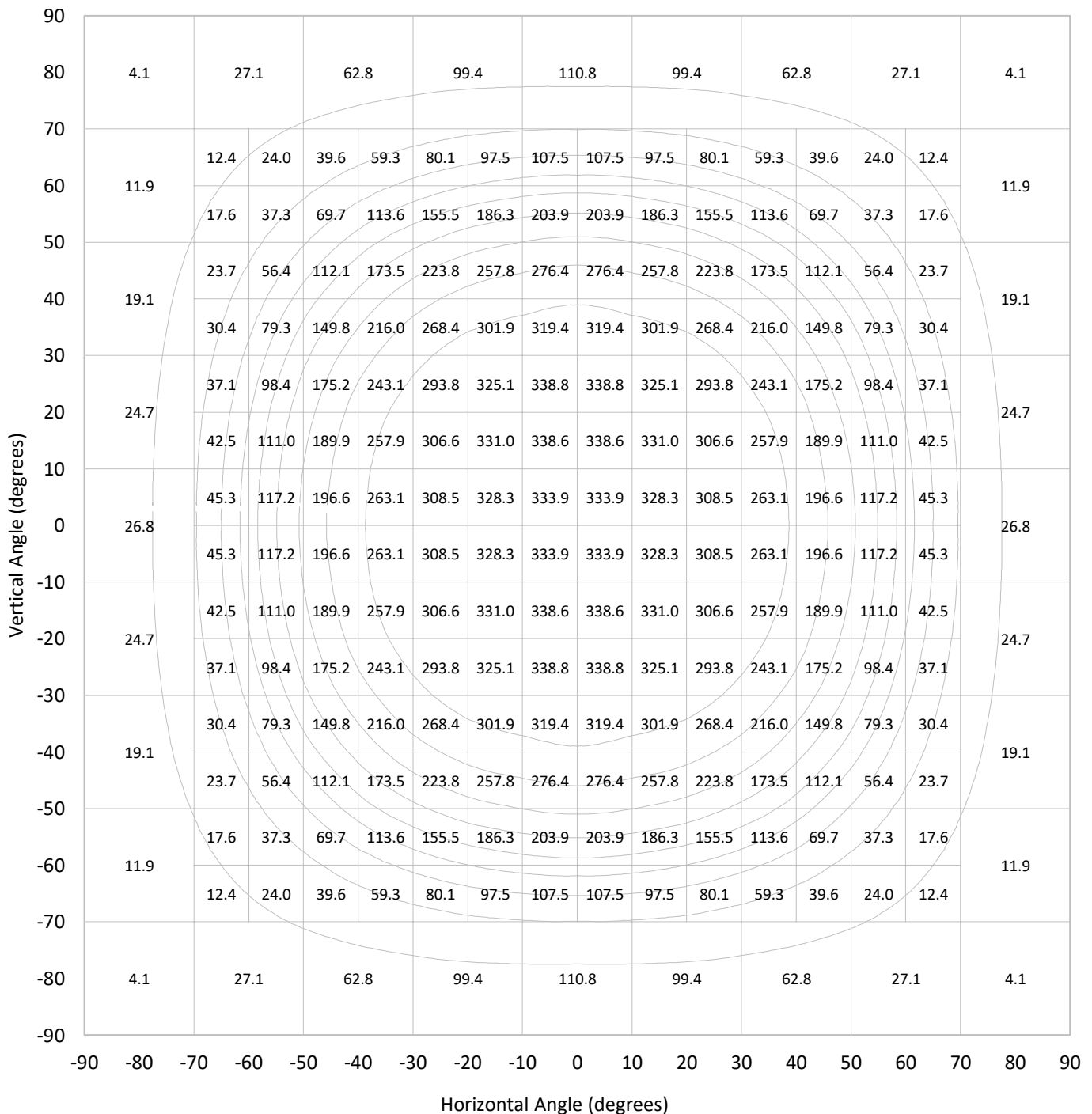
Iso-Candela Plot





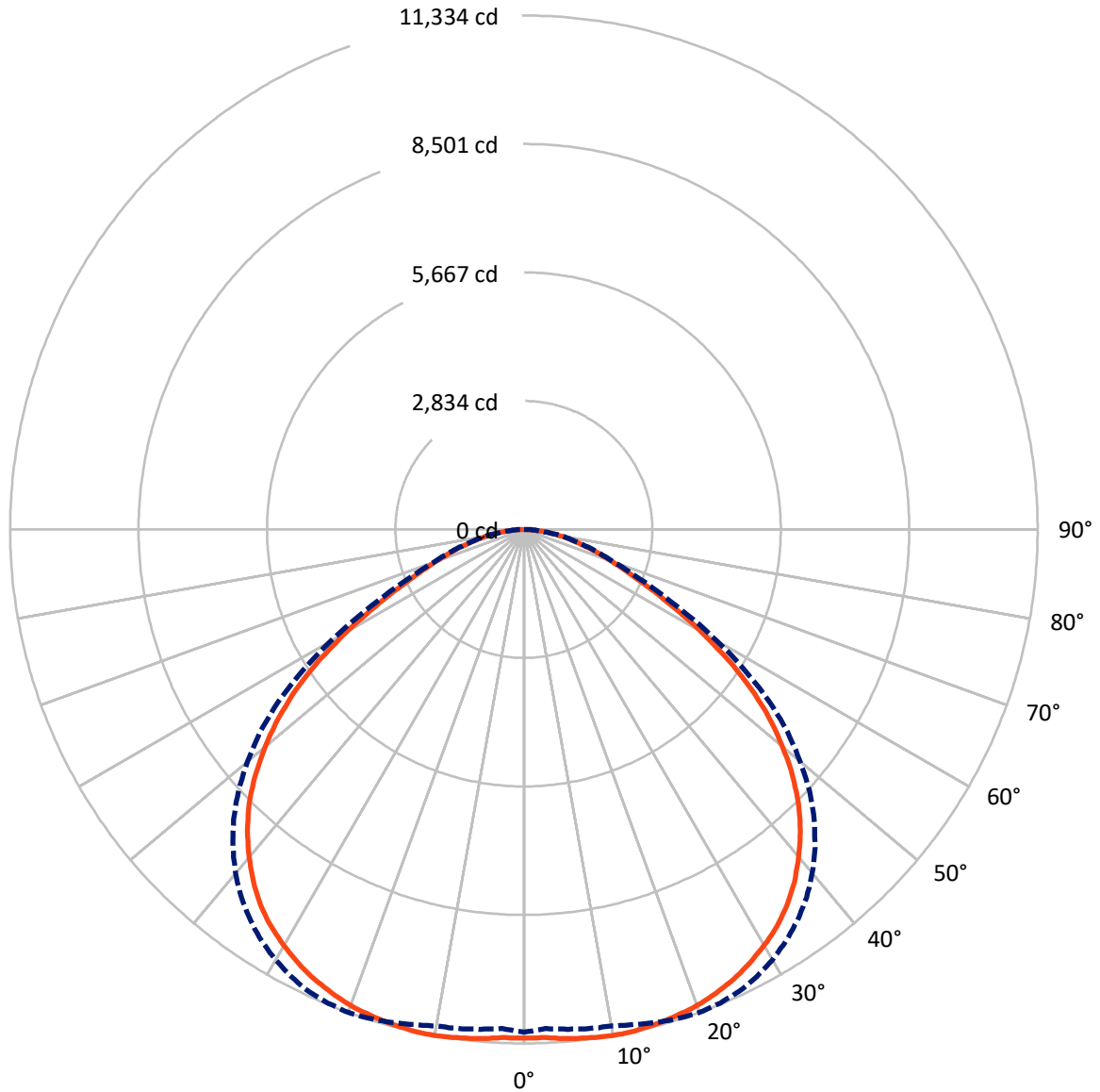
REPORT NUMBER: P628262
 CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM

Lumen Table



REPORT NUMBER: P628262
CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM

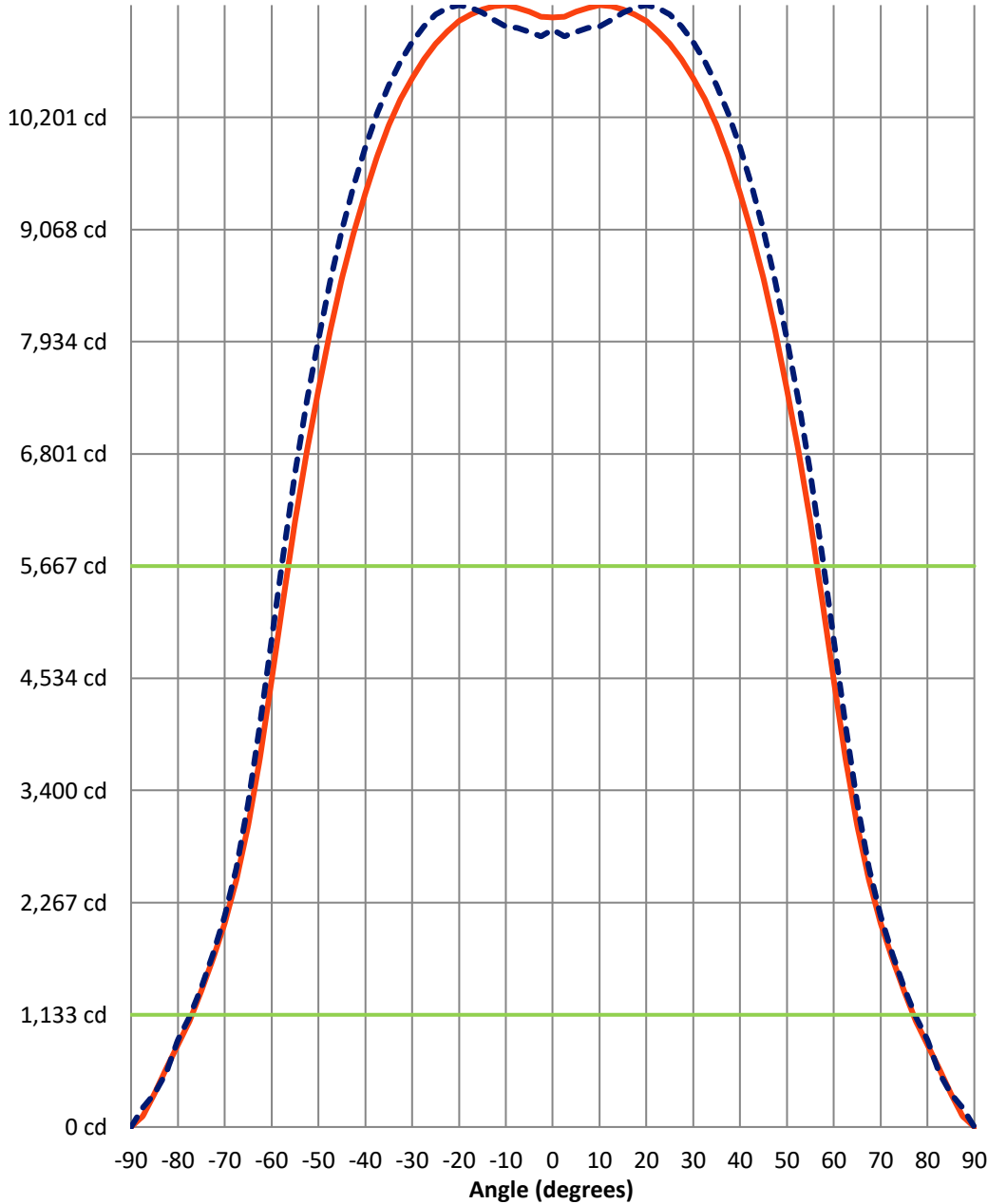
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628262
 CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 21337.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 25579.6
 Efficiency: 73.6%

Spill:
 Lumens: 9192.9
 Efficiency: 26.4%

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



REPORT NUMBER: P628262
 CATALOG NUMBER: IFLD-L-SA8A-735-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°	91.5	98.8	102.4	106.1	109.8	113.4	117.1	113.4	109.8	109.8	106.1
85°	245.1	252.4	256.1	281.7	307.3	322.0	340.3	336.6	336.6	332.9	329.3
82.5°	490.3	512.2	530.5	556.1	570.7	592.7	607.3	596.4	589.0	574.4	563.4
80°	870.8	878.1	881.7	885.4	867.1	863.4	856.1	845.1	830.5	812.2	793.9
77.5°	1108.6	1115.9	1123.2	1115.9	1112.2	1108.6	1097.6	1086.6	1072.0	1057.3	1035.4
75°	1467.1	1467.1	1467.1	1456.1	1448.8	1437.8	1419.5	1401.3	1375.6	1346.4	1313.4
72.5°	1847.6	1844.0	1840.3	1818.3	1800.0	1778.1	1752.5	1730.5	1701.3	1668.3	1624.4
70°	2246.4	2253.7	2257.4	2228.1	2206.2	2176.9	2144.0	2103.7	2059.8	2012.2	1950.1
67.5°	2795.2	2787.9	2780.6	2740.3	2711.0	2670.8	2623.2	2564.7	2498.8	2425.7	2337.9
65°	3475.7	3486.7	3464.7	3424.5	3369.6	3303.7	3230.6	3146.4	3047.6	2937.9	2813.5
62.5°	4298.9	4317.2	4291.6	4240.4	4170.8	4083.0	3980.6	3859.9	3724.5	3570.8	3417.2
60°	5235.5	5231.8	5184.3	5114.8	5023.3	4913.5	4800.1	4668.4	4514.8	4335.5	4148.9
57.5°	6095.3	6088.0	6029.4	5959.9	5868.4	5751.4	5630.6	5491.6	5330.6	5140.4	4924.5
55°	6867.3	6859.9	6801.4	6728.2	6633.1	6516.0	6406.3	6274.6	6117.2	5916.0	5685.5
52.5°	7551.4	7555.1	7503.9	7423.4	7320.9	7207.5	7101.4	6969.7	6819.7	6618.5	6395.3
50°	8180.7	8177.0	8122.2	8049.0	7953.9	7844.1	7738.0	7606.3	7449.0	7255.1	7039.2
47.5°	8766.1	8758.8	8696.6	8616.1	8517.3	8422.2	8323.4	8206.3	8041.7	7847.8	7631.9
45°	9256.3	9241.7	9179.5	9102.7	9007.6	8923.4	8835.6	8747.8	8572.2	8392.9	8188.0
42.5°	9677.1	9673.4	9611.2	9534.4	9439.3	9366.1	9285.6	9175.9	9029.5	8864.9	8663.6
40°	10079.5	10050.3	9988.1	9914.9	9827.1	9764.9	9684.4	9574.6	9432.0	9271.0	9077.1
37.5°	10379.5	10383.2	10317.3	10236.9	10160.0	10101.5	10028.3	9925.9	9801.5	9644.2	9450.2
35°	10664.9	10646.6	10591.7	10522.2	10452.7	10386.9	10310.0	10222.2	10119.8	9973.4	9790.5
32.5°	10851.5	10877.1	10811.3	10738.1	10697.8	10646.6	10566.1	10474.7	10383.2	10236.9	10072.2
30°	11056.4	11034.4	10983.2	10921.0	10891.7	10858.8	10789.3	10701.5	10595.4	10463.7	10310.0
27.5°	11199.1	11188.1	11125.9	11067.4	11052.7	11023.5	10968.6	10891.7	10785.6	10657.6	10514.9
25°	11261.3	11268.6	11210.1	11177.1	11177.1	11158.8	11114.9	11049.1	10943.0	10825.9	10686.9
22.5°	11290.5	11283.2	11243.0	11235.7	11254.0	11239.3	11221.0	11162.5	11067.4	10972.2	10855.2
20°	11308.8	11257.6	11221.0	11250.3	11272.2	11268.6	11254.0	11217.4	11173.5	11093.0	10990.5
17.5°	11268.6	11235.7	11191.8	11235.7	11283.2	11286.9	11272.2	11250.3	11239.3	11188.1	11096.6
15°	11169.8	11144.2	11151.5	11195.4	11250.3	11268.6	11279.6	11305.2	11290.5	11250.3	11169.8
12.5°	11103.9	11071.0	11103.9	11147.9	11177.1	11188.1	11275.9	11323.5	11323.5	11286.9	11235.7
10°	11085.7	11019.8	11063.7	11103.9	11118.6	11184.4	11257.6	11308.8	11334.4	11305.2	11239.3
7.5°	11049.1	11005.2	11023.5	11041.8	11125.9	11173.5	11213.7	11268.6	11305.2	11301.5	11243.0
5°	11030.8	10975.9	10983.2	11060.0	11118.6	11151.5	11166.1	11213.7	11268.6	11279.6	11235.7
2.5°	10983.2	10957.6	11012.5	11019.8	11063.7	11089.3	11103.9	11147.9	11217.4	11243.0	11224.7
0°	10957.6	10921.0	10884.4	10913.7	10986.9	11041.8	11063.7	11129.6	11210.1	11235.7	11195.4



REPORT NUMBER: P628262
 CATALOG NUMBER: IFLD-L-SA8A-735-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°	102.4	98.8	95.1	91.5	95.1	95.1	95.1	91.5	95.1	91.5	91.5
85°	318.3	303.7	292.7	278.1	263.4	252.4	237.8	223.2	219.5	215.9	208.5
82.5°	548.8	530.5	512.2	490.3	468.3	442.7	417.1	387.8	380.5	373.2	362.2
80°	772.0	746.4	720.8	695.1	673.2	647.6	618.3	585.4	563.4	545.1	523.2
77.5°	1006.1	969.5	933.0	889.0	863.4	837.8	808.6	775.6	742.7	713.4	680.5
75°	1273.2	1233.0	1196.4	1152.5	1104.9	1057.3	1009.8	965.9	918.3	874.4	830.5
72.5°	1569.6	1511.0	1452.5	1397.6	1339.1	1280.5	1218.3	1159.8	1101.2	1042.7	980.5
70°	1880.5	1807.4	1734.2	1661.0	1584.2	1507.4	1434.2	1361.0	1287.8	1211.0	1141.5
67.5°	2246.4	2162.3	2067.1	1964.7	1851.3	1752.5	1657.4	1569.6	1481.7	1393.9	1306.1
65°	2703.7	2586.7	2458.6	2319.6	2187.9	2056.2	1917.1	1785.4	1683.0	1580.5	1481.7
62.5°	3267.2	3102.5	2923.2	2744.0	2583.0	2411.0	2250.1	2078.1	1917.1	1770.8	1650.0
60°	3940.3	3717.2	3497.7	3267.2	3044.0	2809.8	2604.9	2392.7	2191.5	2012.2	1836.6
57.5°	4683.0	4423.3	4159.9	3878.2	3574.5	3300.1	3022.0	2744.0	2506.2	2268.4	2070.8
55°	5436.7	5162.3	4866.0	4547.7	4214.7	3863.5	3486.7	3175.7	2850.1	2572.0	2315.9
52.5°	6153.8	5868.4	5561.1	5268.4	4869.6	4467.2	4053.8	3644.0	3263.5	2908.6	2597.6
50°	6794.1	6516.0	6219.7	5879.4	5509.9	5081.8	4620.9	4159.9	3709.9	3292.8	2905.0
47.5°	7379.5	7108.7	6812.4	6472.1	6135.5	5659.9	5195.3	4686.7	4185.5	3706.2	3252.5
45°	7928.3	7653.9	7346.5	7020.9	6633.1	6208.7	5729.4	5217.2	4679.4	4141.6	3618.4
42.5°	8425.8	8151.4	7840.4	7503.9	7119.7	6699.0	6234.3	5718.4	5177.0	4591.6	4017.2
40°	8861.2	8594.1	8294.1	7942.9	7584.3	7141.7	6684.3	6194.1	5634.3	5045.3	4412.3
37.5°	9241.7	8992.9	8696.6	8349.0	7968.5	7573.4	7101.4	6611.1	6106.3	5466.0	4818.4
35°	9578.3	9347.8	9044.1	8714.9	8341.7	7924.6	7481.9	7002.6	6457.5	5857.5	5228.2
32.5°	9871.0	9636.8	9358.8	9029.5	8667.3	8275.8	7822.2	7339.2	6823.3	6212.4	5528.2
30°	10119.8	9892.9	9629.5	9318.5	8971.0	8583.2	8140.5	7653.9	7127.0	6519.7	5842.8
27.5°	10335.6	10119.8	9863.7	9574.6	9241.7	8868.5	8422.2	7931.9	7394.1	6808.7	6131.9
25°	10522.2	10313.7	10075.9	9801.5	9472.2	9106.3	8685.6	8173.4	7635.6	7046.5	6377.0
22.5°	10690.5	10489.3	10251.5	9984.4	9684.4	9318.5	8894.1	8385.6	7840.4	7258.7	6600.2
20°	10840.5	10653.9	10419.8	10145.4	9845.4	9475.9	9055.1	8572.2	8023.4	7452.6	6801.4
17.5°	10961.3	10796.6	10562.5	10273.4	9973.4	9614.9	9205.1	8762.4	8180.7	7617.3	6969.7
15°	11045.4	10884.4	10672.2	10379.5	10086.8	9732.0	9322.2	8864.9	8323.4	7749.0	7108.7
12.5°	11103.9	10932.0	10734.4	10463.7	10171.0	9819.8	9421.0	8971.0	8444.1	7866.1	7229.5
10°	11118.6	10961.3	10763.7	10522.2	10236.9	9896.6	9505.1	9058.8	8542.9	7957.5	7328.2
7.5°	11125.9	10975.9	10796.6	10566.1	10284.4	9955.1	9567.3	9128.3	8616.1	8034.4	7401.4
5°	11122.2	10979.6	10818.6	10595.4	10313.7	9988.1	9607.6	9175.9	8667.3	8085.6	7456.3
2.5°	11111.3	10983.2	10833.2	10617.4	10346.6	10024.7	9647.8	9230.7	8722.2	8129.5	7500.2
0°	11140.5	11030.8	10840.5	10610.0	10353.9	10024.7	9644.2	9238.0	8729.5	8125.8	7496.5



REPORT NUMBER: P628262
 CATALOG NUMBER: IFLD-L-SA8A-735-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°	91.5	87.8	87.8	84.1	80.5	76.8	69.5	65.9	58.5	47.6	36.6
85°	197.6	186.6	175.6	168.3	161.0	153.7	142.7	131.7	117.1	95.1	73.2
82.5°	347.6	325.6	303.7	278.1	256.1	234.2	215.9	197.6	175.6	142.7	109.8
80°	497.6	464.6	431.7	395.1	362.2	325.6	292.7	263.4	234.2	190.2	146.3
77.5°	647.6	603.7	556.1	512.2	464.6	417.1	369.5	329.3	285.4	234.2	182.9
75°	786.6	735.4	691.5	629.3	570.7	508.5	446.4	391.5	336.6	274.4	219.5
72.5°	925.6	859.8	797.6	739.0	673.2	596.4	526.8	457.3	387.8	314.6	248.8
70°	1064.7	984.2	907.3	837.8	764.7	687.8	603.7	523.2	439.0	351.2	274.4
67.5°	1207.3	1115.9	1028.1	940.3	856.1	768.3	680.5	589.0	490.3	387.8	303.7
65°	1364.7	1251.3	1145.2	1046.4	947.6	852.5	753.7	654.9	545.1	428.1	329.3
62.5°	1522.0	1397.6	1273.2	1148.8	1039.1	933.0	826.9	717.1	596.4	472.0	354.9
60°	1690.3	1547.6	1404.9	1265.9	1130.5	1013.4	896.4	779.3	651.2	512.2	380.5
57.5°	1876.9	1704.9	1543.9	1386.6	1233.0	1093.9	965.9	841.5	698.8	552.5	409.8
55°	2089.1	1876.9	1686.6	1511.0	1342.7	1174.4	1035.4	907.3	753.7	592.7	442.7
52.5°	2312.3	2067.1	1836.6	1639.1	1459.8	1269.5	1101.2	958.6	808.6	632.9	472.0
50°	2572.0	2261.0	2004.9	1763.5	1562.2	1364.7	1170.8	1017.1	863.4	680.5	501.2
47.5°	2839.1	2495.2	2173.2	1909.8	1672.0	1456.1	1251.3	1068.3	914.7	724.4	530.5
45°	3150.1	2718.4	2363.5	2052.5	1778.1	1551.3	1331.7	1123.2	958.6	768.3	559.8
42.5°	3450.1	2981.8	2561.0	2209.8	1898.8	1642.7	1404.9	1181.7	1002.5	812.2	585.4
40°	3805.0	3245.2	2751.3	2359.8	2019.6	1730.5	1478.1	1243.9	1042.7	852.5	611.0
37.5°	4145.2	3512.3	2981.8	2524.5	2136.6	1818.3	1551.3	1302.5	1079.3	892.7	643.9
35°	4481.8	3808.6	3201.3	2678.1	2257.4	1917.1	1624.4	1357.4	1115.9	925.6	673.2
32.5°	4803.8	4086.7	3424.5	2850.1	2389.1	2008.6	1690.3	1408.6	1152.5	954.9	702.5
30°	5103.8	4350.1	3644.0	3025.7	2509.8	2092.7	1752.5	1459.8	1196.4	980.5	731.7
27.5°	5378.2	4606.2	3863.5	3190.3	2623.2	2169.6	1818.3	1507.4	1233.0	1006.1	757.3
25°	5627.0	4836.7	4064.7	3340.3	2725.7	2253.7	1880.5	1554.9	1265.9	1028.1	779.3
22.5°	5861.1	5048.9	4247.7	3490.3	2850.1	2337.9	1939.1	1598.8	1298.8	1050.0	801.2
20°	6066.0	5242.8	4423.3	3640.3	2959.8	2414.7	1990.3	1639.1	1328.1	1064.7	823.2
17.5°	6230.7	5414.8	4580.6	3772.1	3055.0	2480.6	2034.2	1675.7	1353.7	1083.0	837.8
15°	6377.0	5561.1	4712.3	3885.5	3139.1	2535.4	2074.4	1704.9	1375.6	1093.9	856.1
12.5°	6501.4	5685.5	4825.7	3984.3	3212.3	2583.0	2107.4	1726.9	1393.9	1104.9	867.1
10°	6603.8	5784.3	4920.9	4061.1	3270.8	2619.6	2133.0	1748.8	1408.6	1115.9	878.1
7.5°	6680.7	5857.5	4990.4	4126.9	3318.4	2645.2	2154.9	1763.5	1423.2	1123.2	896.4
5°	6739.2	5919.7	5045.3	4170.8	3355.0	2681.8	2180.5	1781.8	1437.8	1130.5	896.4
2.5°	6783.1	5970.9	5089.2	4207.4	3384.2	2674.5	2180.5	1778.1	1437.8	1130.5	892.7
0°	6775.8	5974.5	5085.5	4207.4	3384.2	2667.1	2180.5	1774.4	1437.8	1130.5	892.7



REPORT NUMBER: P628262
 CATALOG NUMBER: IFLD-L-SA8A-735-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.6	18.3	7.3	0.0
85°	54.9	36.6	18.3	0.0
82.5°	80.5	51.2	25.6	0.0
80°	106.1	69.5	32.9	0.0
77.5°	135.4	87.8	43.9	0.0
75°	161.0	102.4	51.2	0.0
72.5°	186.6	120.7	58.5	0.0
70°	208.5	135.4	65.9	0.0
67.5°	230.5	153.7	76.8	0.0
65°	248.8	168.3	84.1	0.0
62.5°	263.4	186.6	91.5	0.0
60°	281.7	201.2	98.8	0.0
57.5°	296.3	212.2	106.1	0.0
55°	311.0	219.5	113.4	0.0
52.5°	325.6	230.5	120.7	0.0
50°	340.3	241.5	128.1	0.0
47.5°	354.9	248.8	131.7	0.0
45°	376.8	259.8	139.0	0.0
42.5°	395.1	267.1	146.3	0.0
40°	413.4	274.4	150.0	0.0
37.5°	431.7	281.7	157.3	0.0
35°	450.0	289.0	161.0	0.0
32.5°	464.6	296.3	164.6	0.0
30°	479.3	303.7	168.3	0.0
27.5°	493.9	307.3	172.0	0.0
25°	504.9	314.6	175.6	0.0
22.5°	515.9	318.3	179.3	0.0
20°	523.2	322.0	182.9	0.0
17.5°	534.2	325.6	186.6	0.0
15°	537.8	329.3	193.9	0.0
12.5°	545.1	332.9	193.9	0.0
10°	548.8	336.6	193.9	0.0
7.5°	556.1	336.6	193.9	0.0
5°	552.5	336.6	193.9	0.0
2.5°	552.5	336.6	193.9	0.0
0°	548.8	336.6	193.9	0.0

(END OF REPORT)