

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: P628491

Luminaire Tested: **IFLD-L-SA7C-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628491
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

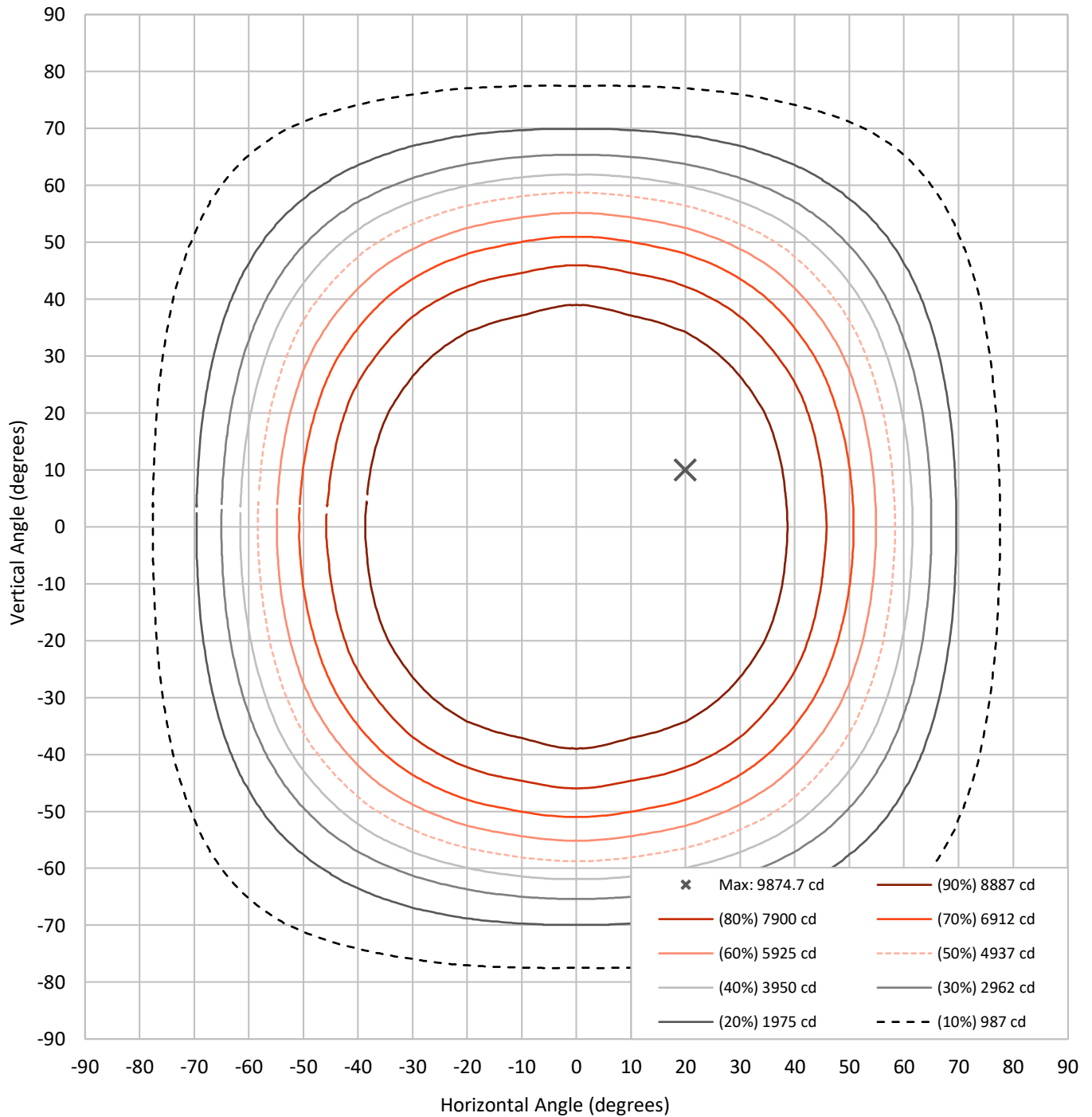
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30294.4 lumens	Max Intensity:	9874.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	82.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	18589.2 lumens	Field Lumens:	22285.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 369
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: P628491
CATALOG NUMBER: IFLD-L-SA7C-935-U-LAM

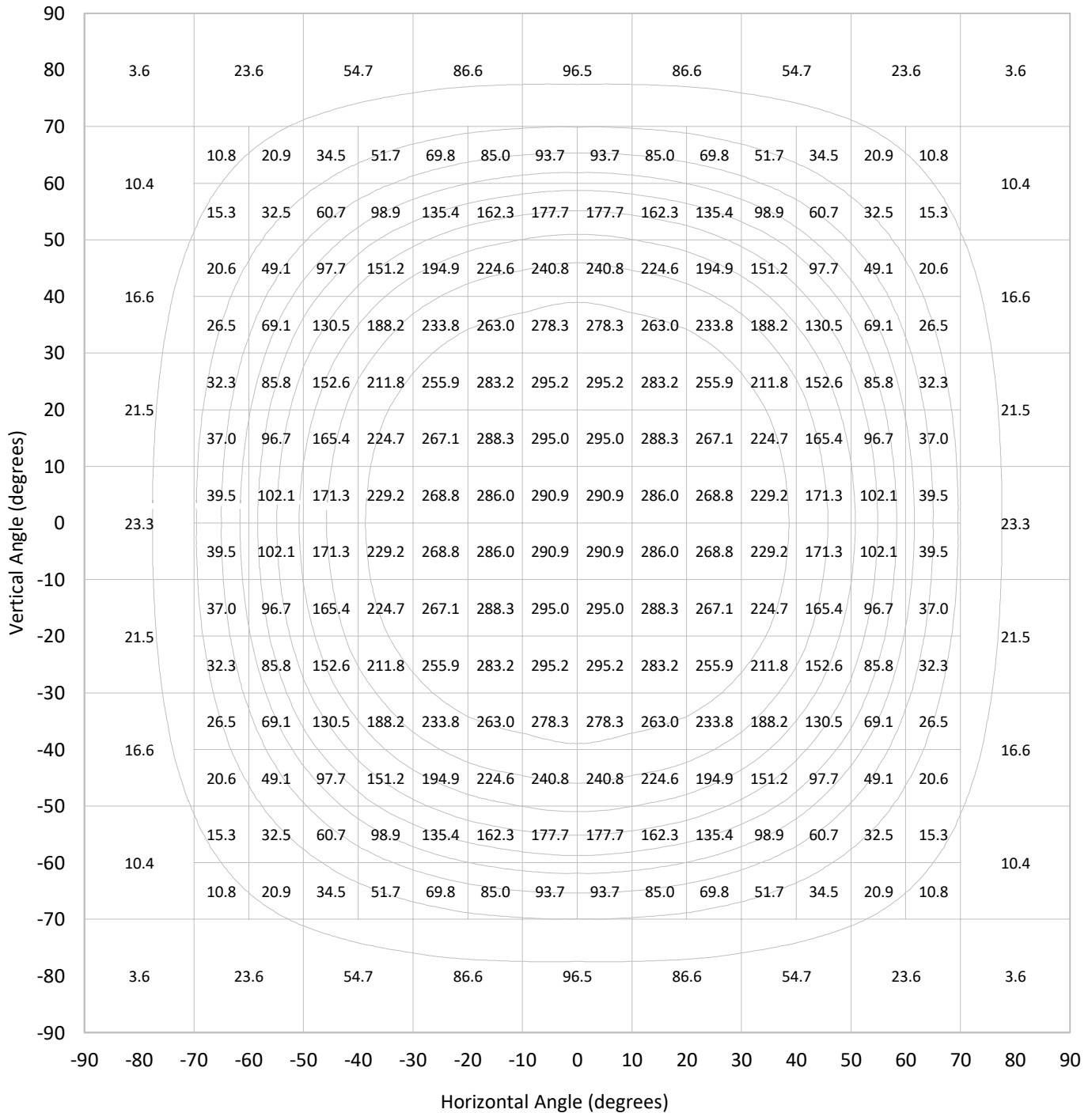
Iso-Candela Plot





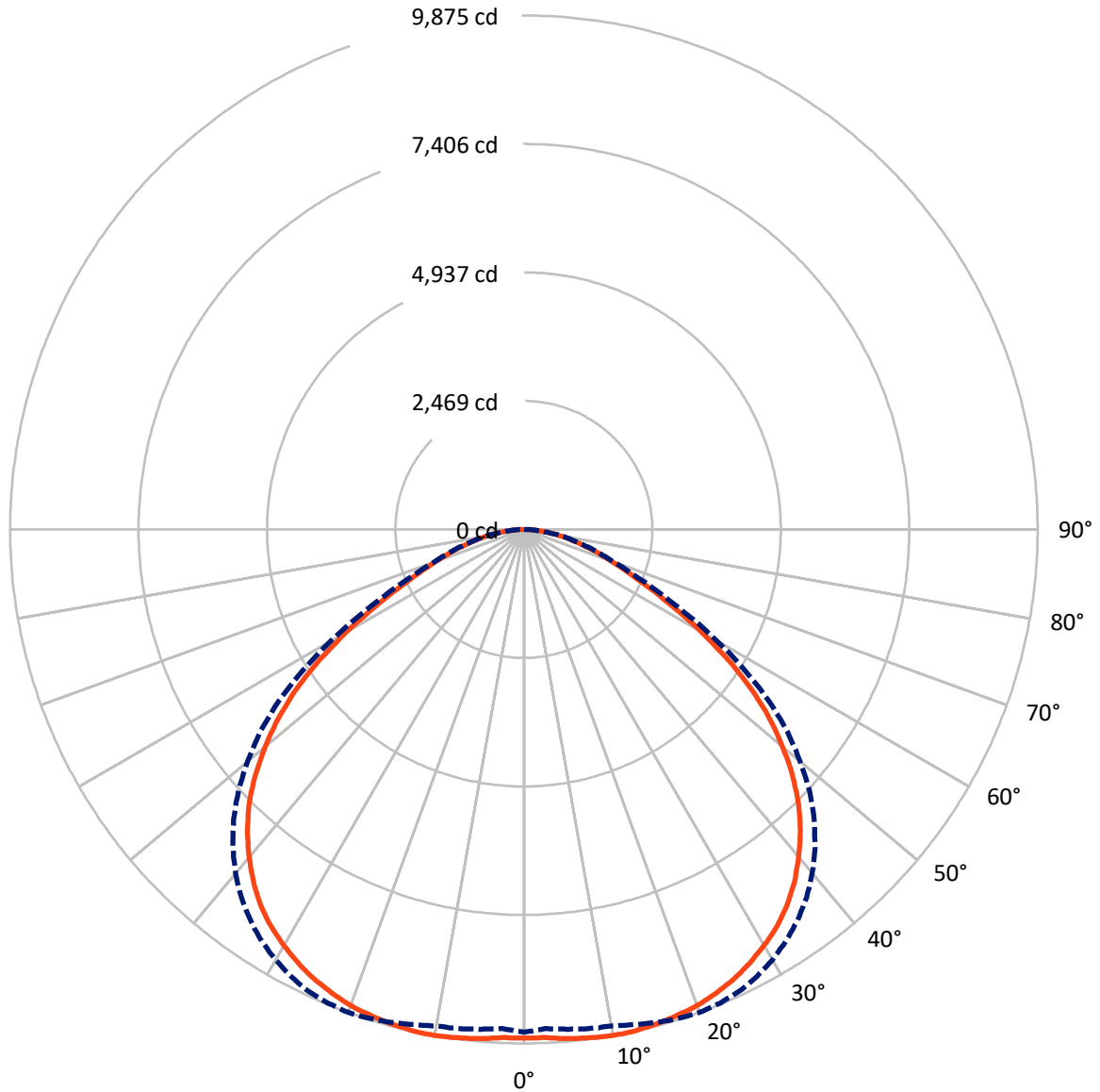
REPORT NUMBER: P628491
 CATALOG NUMBER: IFLD-L-SA7C-935-U-LAM

Lumen Table



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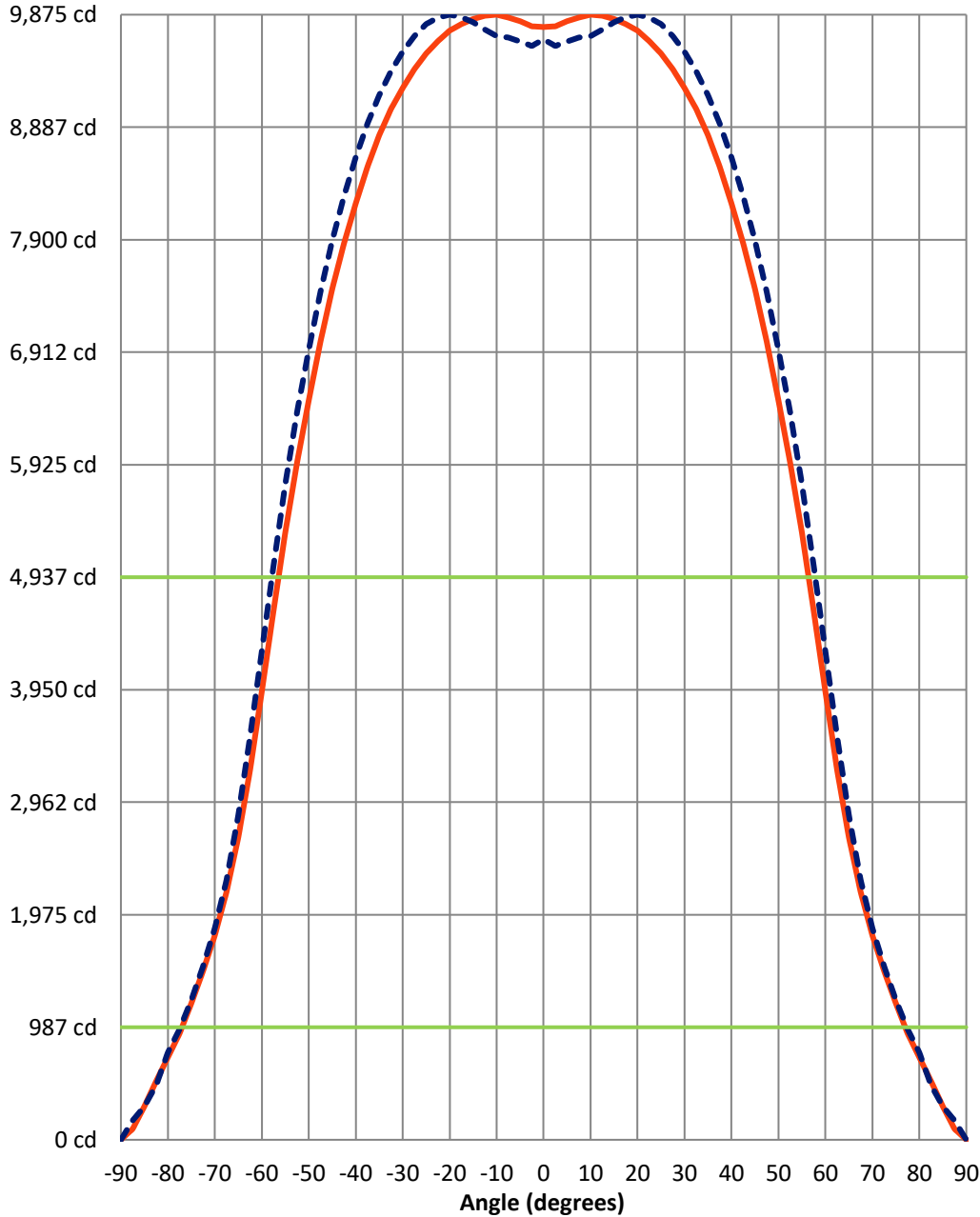
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628491
 CATALOG NUMBER: IFLD-L-SA7C-935-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 18589.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 22285.3
 Efficiency: 73.6%

Spill:
 Lumens: 8009
 Efficiency: 26.4%

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



REPORT NUMBER: P628491
 CATALOG NUMBER: IFLD-L-SA7C-935-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°	79.7	86.1	89.2	92.4	95.6	98.8	102.0	98.8	95.6	95.6	92.4
85°	213.6	219.9	223.1	245.4	267.7	280.5	296.4	293.2	293.2	290.1	286.9
82.5°	427.1	446.2	462.2	484.5	497.2	516.4	529.1	519.6	513.2	500.4	490.9
80°	758.6	765.0	768.2	771.4	755.4	752.2	745.9	736.3	723.6	707.6	691.7
77.5°	965.8	972.2	978.5	972.2	969.0	965.8	956.2	946.7	933.9	921.2	902.1
75°	1278.2	1278.2	1278.2	1268.6	1262.2	1252.7	1236.7	1220.8	1198.5	1173.0	1144.3
72.5°	1609.7	1606.5	1603.3	1584.2	1568.2	1549.1	1526.8	1507.7	1482.2	1453.5	1415.2
70°	1957.1	1963.5	1966.7	1941.2	1922.0	1896.5	1867.8	1832.8	1794.5	1753.1	1698.9
67.5°	2435.2	2428.8	2422.5	2387.4	2361.9	2326.8	2285.4	2234.4	2177.0	2113.3	2036.8
65°	3028.1	3037.6	3018.5	2983.5	2935.6	2878.3	2814.5	2741.2	2655.2	2559.5	2451.2
62.5°	3745.3	3761.2	3738.9	3694.3	3633.7	3557.2	3468.0	3362.8	3244.8	3111.0	2977.1
60°	4561.3	4558.1	4516.6	4456.1	4376.4	4280.8	4181.9	4067.2	3933.3	3777.1	3614.6
57.5°	5310.3	5303.9	5252.9	5192.4	5112.7	5010.7	4905.5	4784.4	4644.1	4478.4	4290.3
55°	5982.9	5976.5	5925.5	5861.7	5778.9	5676.9	5581.2	5466.5	5329.4	5154.1	4953.3
52.5°	6578.9	6582.1	6537.5	6467.3	6378.1	6279.3	6186.9	6072.1	5941.4	5766.1	5571.7
50°	7127.2	7124.0	7076.2	7012.4	6929.5	6833.9	6741.5	6626.7	6489.7	6320.7	6132.7
47.5°	7637.1	7630.8	7576.6	7506.5	7420.4	7337.5	7251.5	7149.5	7006.0	6837.1	6649.0
45°	8064.3	8051.5	7997.3	7930.4	7847.5	7774.2	7697.7	7621.2	7468.2	7312.0	7133.5
42.5°	8430.8	8427.6	8373.4	8306.5	8223.6	8159.9	8089.8	7994.1	7866.6	7723.2	7547.9
40°	8781.4	8755.9	8701.8	8638.0	8561.5	8507.3	8437.2	8341.6	8217.3	8077.0	7908.1
37.5°	9042.8	9046.0	8988.6	8918.5	8851.6	8800.6	8736.8	8647.6	8539.2	8402.1	8233.2
35°	9291.4	9275.5	9227.7	9167.1	9106.6	9049.2	8982.3	8905.8	8816.5	8689.0	8529.6
32.5°	9454.0	9476.3	9418.9	9355.2	9320.1	9275.5	9205.4	9125.7	9046.0	8918.5	8775.1
30°	9632.5	9613.4	9568.7	9514.6	9489.1	9460.4	9399.8	9323.3	9230.9	9116.1	8982.3
27.5°	9756.8	9747.2	9693.1	9642.1	9629.3	9603.8	9556.0	9489.1	9396.6	9285.1	9160.8
25°	9811.0	9817.4	9766.4	9737.7	9737.7	9721.7	9683.5	9626.1	9533.7	9431.7	9310.6
22.5°	9836.5	9830.1	9795.1	9788.7	9804.6	9791.9	9775.9	9724.9	9642.1	9559.2	9457.2
20°	9852.4	9807.8	9775.9	9801.4	9820.6	9817.4	9804.6	9772.7	9734.5	9664.4	9575.1
17.5°	9817.4	9788.7	9750.4	9788.7	9830.1	9833.3	9820.6	9801.4	9791.9	9747.2	9667.6
15°	9731.3	9709.0	9715.4	9753.6	9801.4	9817.4	9826.9	9849.2	9836.5	9801.4	9731.3
12.5°	9673.9	9645.2	9673.9	9712.2	9737.7	9747.2	9823.7	9865.2	9865.2	9833.3	9788.7
10°	9658.0	9600.6	9638.9	9673.9	9686.7	9744.1	9807.8	9852.4	9874.7	9849.2	9791.9
7.5°	9626.1	9587.9	9603.8	9619.7	9693.1	9734.5	9769.6	9817.4	9849.2	9846.1	9795.1
5°	9610.2	9562.4	9568.7	9635.7	9686.7	9715.4	9728.1	9769.6	9817.4	9826.9	9788.7
2.5°	9568.7	9546.4	9594.2	9600.6	9638.9	9661.2	9673.9	9712.2	9772.7	9795.1	9779.1
0°	9546.4	9514.6	9482.7	9508.2	9571.9	9619.7	9638.9	9696.2	9766.4	9788.7	9753.6



REPORT NUMBER: P628491
 CATALOG NUMBER: IFLD-L-SA7C-935-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°	89.2	86.1	82.9	79.7	82.9	82.9	82.9	79.7	82.9	79.7	79.7
85°	277.3	264.6	255.0	242.2	229.5	219.9	207.2	194.4	191.2	188.1	181.7
82.5°	478.1	462.2	446.2	427.1	408.0	385.7	363.4	337.9	331.5	325.1	315.6
80°	672.6	650.2	627.9	605.6	586.5	564.2	538.7	510.0	490.9	474.9	455.8
77.5°	876.6	844.7	812.8	774.6	752.2	729.9	704.4	675.7	647.1	621.6	592.9
75°	1109.2	1074.2	1042.3	1004.0	962.6	921.2	879.7	841.5	800.1	761.8	723.6
72.5°	1367.4	1316.4	1265.4	1217.6	1166.6	1115.6	1061.4	1010.4	959.4	908.4	854.2
70°	1638.4	1574.6	1510.9	1447.1	1380.2	1313.2	1249.5	1185.7	1122.0	1055.0	994.5
67.5°	1957.1	1883.8	1800.9	1711.7	1612.9	1526.8	1443.9	1367.4	1290.9	1214.4	1137.9
65°	2355.5	2253.5	2142.0	2020.8	1906.1	1791.4	1670.2	1555.5	1466.2	1377.0	1290.9
62.5°	2846.4	2703.0	2546.8	2390.6	2250.3	2100.5	1960.3	1810.5	1670.2	1542.7	1437.5
60°	3432.9	3238.5	3047.2	2846.4	2652.0	2448.0	2269.5	2084.6	1909.3	1753.1	1600.1
57.5°	4079.9	3853.6	3624.1	3378.7	3114.1	2875.1	2632.8	2390.6	2183.4	1976.2	1804.1
55°	4736.6	4497.5	4239.3	3962.0	3672.0	3366.0	3037.6	2766.7	2483.0	2240.8	2017.7
52.5°	5361.3	5112.7	4844.9	4589.9	4242.5	3891.9	3531.7	3174.7	2843.2	2534.0	2263.1
50°	5919.1	5676.9	5418.7	5122.2	4800.3	4427.4	4025.8	3624.1	3232.1	2868.7	2530.8
47.5°	6429.1	6193.2	5935.0	5638.6	5345.4	4931.0	4526.2	4083.1	3646.5	3228.9	2833.6
45°	6907.2	6668.2	6400.4	6116.7	5778.9	5409.1	4991.6	4545.3	4076.8	3608.2	3152.4
42.5°	7340.7	7101.7	6830.7	6537.5	6202.8	5836.2	5431.4	4982.0	4510.3	4000.3	3499.8
40°	7720.0	7487.3	7226.0	6920.0	6607.6	6221.9	5823.5	5396.4	4908.7	4395.5	3844.1
37.5°	8051.5	7834.8	7576.6	7273.8	6942.3	6598.0	6186.9	5759.7	5319.9	4762.1	4197.9
35°	8344.8	8144.0	7879.4	7592.5	7267.4	6904.0	6518.3	6100.8	5625.9	5103.1	4554.9
32.5°	8599.8	8395.8	8153.5	7866.6	7551.1	7210.0	6814.8	6394.0	5944.6	5412.3	4816.2
30°	8816.5	8618.9	8389.4	8118.5	7815.6	7477.8	7092.1	6668.2	6209.2	5680.0	5090.4
27.5°	9004.6	8816.5	8593.4	8341.6	8051.5	7726.4	7337.5	6910.4	6441.8	5931.9	5342.2
25°	9167.1	8985.4	8778.3	8539.2	8252.3	7933.6	7567.0	7120.8	6652.2	6139.0	5555.7
22.5°	9313.7	9138.4	8931.3	8698.6	8437.2	8118.5	7748.7	7305.7	6830.7	6323.9	5750.2
20°	9444.4	9281.9	9077.9	8838.8	8577.4	8255.5	7889.0	7468.2	6990.1	6492.8	5925.5
17.5°	9549.6	9406.2	9202.2	8950.4	8689.0	8376.6	8019.6	7634.0	7127.2	6636.3	6072.1
15°	9622.9	9482.7	9297.8	9042.8	8787.8	8478.6	8121.6	7723.2	7251.5	6751.0	6193.2
12.5°	9673.9	9524.1	9352.0	9116.1	8861.1	8555.1	8207.7	7815.6	7356.6	6853.0	6298.4
10°	9686.7	9549.6	9377.5	9167.1	8918.5	8622.1	8281.0	7892.1	7442.7	6932.7	6384.5
7.5°	9693.1	9562.4	9406.2	9205.4	8959.9	8673.1	8335.2	7952.7	7506.5	6999.7	6448.2
5°	9689.9	9565.6	9425.3	9230.9	8985.4	8701.8	8370.3	7994.1	7551.1	7044.3	6496.0
2.5°	9680.3	9568.7	9438.1	9250.0	9014.1	8733.6	8405.3	8042.0	7598.9	7082.5	6534.3
0°	9705.8	9610.2	9444.4	9243.6	9020.5	8733.6	8402.1	8048.3	7605.3	7079.3	6531.1



REPORT NUMBER: P628491
 CATALOG NUMBER: IFLD-L-SA7C-935-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°	79.7	76.5	76.5	73.3	70.1	66.9	60.6	57.4	51.0	41.4	31.9
85°	172.1	162.6	153.0	146.6	140.2	133.9	124.3	114.7	102.0	82.9	63.7
82.5°	302.8	283.7	264.6	242.2	223.1	204.0	188.1	172.1	153.0	124.3	95.6
80°	433.5	404.8	376.1	344.2	315.6	283.7	255.0	229.5	204.0	165.7	127.5
77.5°	564.2	525.9	484.5	446.2	404.8	363.4	321.9	286.9	248.6	204.0	159.4
75°	685.3	640.7	602.4	548.2	497.2	443.1	388.9	341.1	293.2	239.1	191.2
72.5°	806.4	749.1	694.9	643.9	586.5	519.6	459.0	398.4	337.9	274.1	216.7
70°	927.5	857.4	790.5	729.9	666.2	599.2	525.9	455.8	382.5	306.0	239.1
67.5°	1051.9	972.2	895.7	819.2	745.9	669.4	592.9	513.2	427.1	337.9	264.6
65°	1188.9	1090.1	997.7	911.6	825.6	742.7	656.6	570.6	474.9	372.9	286.9
62.5°	1326.0	1217.6	1109.2	1000.9	905.2	812.8	720.4	624.7	519.6	411.2	309.2
60°	1472.6	1348.3	1224.0	1102.9	984.9	882.9	780.9	678.9	567.4	446.2	331.5
57.5°	1635.2	1485.4	1345.1	1208.0	1074.2	953.0	841.5	733.1	608.8	481.3	357.0
55°	1820.0	1635.2	1469.4	1316.4	1169.8	1023.2	902.1	790.5	656.6	516.4	385.7
52.5°	2014.5	1800.9	1600.1	1428.0	1271.8	1106.0	959.4	835.1	704.4	551.4	411.2
50°	2240.8	1969.8	1746.7	1536.4	1361.0	1188.9	1020.0	886.1	752.2	592.9	436.7
47.5°	2473.5	2173.8	1893.3	1663.9	1456.7	1268.6	1090.1	930.7	796.9	631.1	462.2
45°	2744.4	2368.3	2059.1	1788.2	1549.1	1351.5	1160.2	978.5	835.1	669.4	487.7
42.5°	3005.8	2597.8	2231.2	1925.2	1654.3	1431.2	1224.0	1029.5	873.4	707.6	510.0
40°	3315.0	2827.3	2397.0	2055.9	1759.5	1507.7	1287.7	1083.7	908.4	742.7	532.3
37.5°	3611.4	3060.0	2597.8	2199.3	1861.5	1584.2	1351.5	1134.7	940.3	777.7	561.0
35°	3904.6	3318.1	2789.0	2333.2	1966.7	1670.2	1415.2	1182.5	972.2	806.4	586.5
32.5°	4185.1	3560.4	2983.5	2483.0	2081.4	1749.9	1472.6	1227.2	1004.0	831.9	612.0
30°	4446.5	3789.9	3174.7	2636.0	2186.6	1823.2	1526.8	1271.8	1042.3	854.2	637.5
27.5°	4685.6	4013.0	3366.0	2779.5	2285.4	1890.2	1584.2	1313.2	1074.2	876.6	659.8
25°	4902.3	4213.8	3541.3	2910.1	2374.7	1963.5	1638.4	1354.7	1102.9	895.7	678.9
22.5°	5106.3	4398.7	3700.6	3040.8	2483.0	2036.8	1689.4	1392.9	1131.5	914.8	698.1
20°	5284.8	4567.6	3853.6	3171.5	2578.7	2103.7	1734.0	1428.0	1157.0	927.5	717.2
17.5°	5428.2	4717.4	3990.7	3286.3	2661.5	2161.1	1772.2	1459.9	1179.4	943.5	729.9
15°	5555.7	4844.9	4105.4	3385.1	2734.8	2208.9	1807.3	1485.4	1198.5	953.0	745.9
12.5°	5664.1	4953.3	4204.3	3471.1	2798.6	2250.3	1836.0	1504.5	1214.4	962.6	755.4
10°	5753.4	5039.4	4287.1	3538.1	2849.6	2282.2	1858.3	1523.6	1227.2	972.2	765.0
7.5°	5820.3	5103.1	4347.7	3595.5	2891.0	2304.5	1877.4	1536.4	1239.9	978.5	780.9
5°	5871.3	5157.3	4395.5	3633.7	2922.9	2336.4	1899.7	1552.3	1252.7	984.9	780.9
2.5°	5909.5	5201.9	4433.8	3665.6	2948.4	2330.0	1899.7	1549.1	1252.7	984.9	777.7
0°	5903.2	5205.1	4430.6	3665.6	2948.4	2323.7	1899.7	1545.9	1252.7	984.9	777.7



REPORT NUMBER: P628491
 CATALOG NUMBER: IFLD-L-SA7C-935-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.3	15.9	6.4	0.0
85°	47.8	31.9	15.9	0.0
82.5°	70.1	44.6	22.3	0.0
80°	92.4	60.6	28.7	0.0
77.5°	117.9	76.5	38.2	0.0
75°	140.2	89.2	44.6	0.0
72.5°	162.6	105.2	51.0	0.0
70°	181.7	117.9	57.4	0.0
67.5°	200.8	133.9	66.9	0.0
65°	216.7	146.6	73.3	0.0
62.5°	229.5	162.6	79.7	0.0
60°	245.4	175.3	86.1	0.0
57.5°	258.2	184.9	92.4	0.0
55°	270.9	191.2	98.8	0.0
52.5°	283.7	200.8	105.2	0.0
50°	296.4	210.4	111.6	0.0
47.5°	309.2	216.7	114.7	0.0
45°	328.3	226.3	121.1	0.0
42.5°	344.2	232.7	127.5	0.0
40°	360.2	239.1	130.7	0.0
37.5°	376.1	245.4	137.1	0.0
35°	392.1	251.8	140.2	0.0
32.5°	404.8	258.2	143.4	0.0
30°	417.6	264.6	146.6	0.0
27.5°	430.3	267.7	149.8	0.0
25°	439.9	274.1	153.0	0.0
22.5°	449.4	277.3	156.2	0.0
20°	455.8	280.5	159.4	0.0
17.5°	465.4	283.7	162.6	0.0
15°	468.6	286.9	168.9	0.0
12.5°	474.9	290.1	168.9	0.0
10°	478.1	293.2	168.9	0.0
7.5°	484.5	293.2	168.9	0.0
5°	481.3	293.2	168.9	0.0
2.5°	481.3	293.2	168.9	0.0
0°	478.1	293.2	168.9	0.0

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