

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: P628200

Luminaire Tested: **IFLD-L-SA7B-727-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628200
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

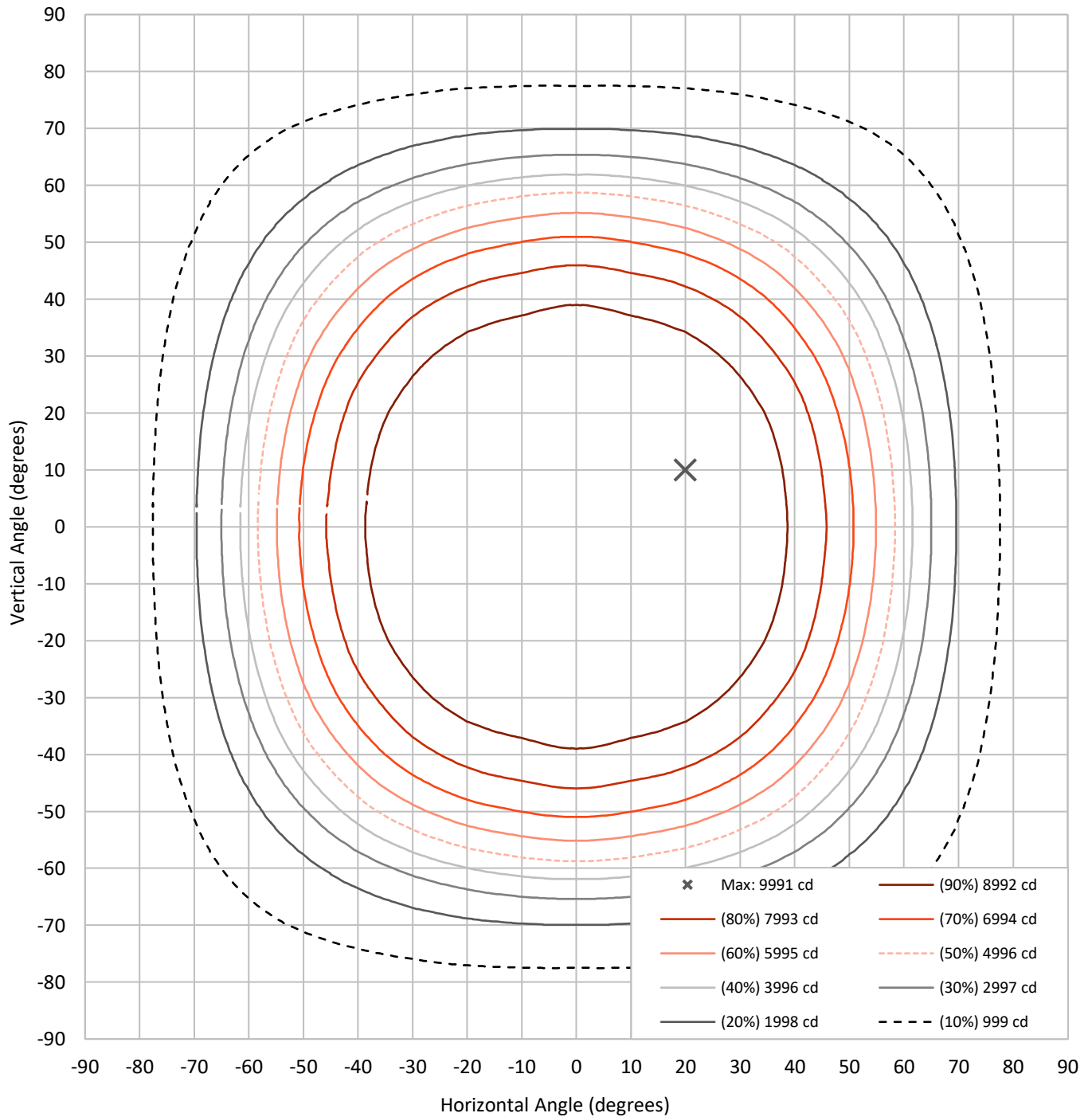
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	30651.1 lumens	Max Intensity:	9991 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	109.1 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:	18808.2 lumens	Field Lumens:	22547.8 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		



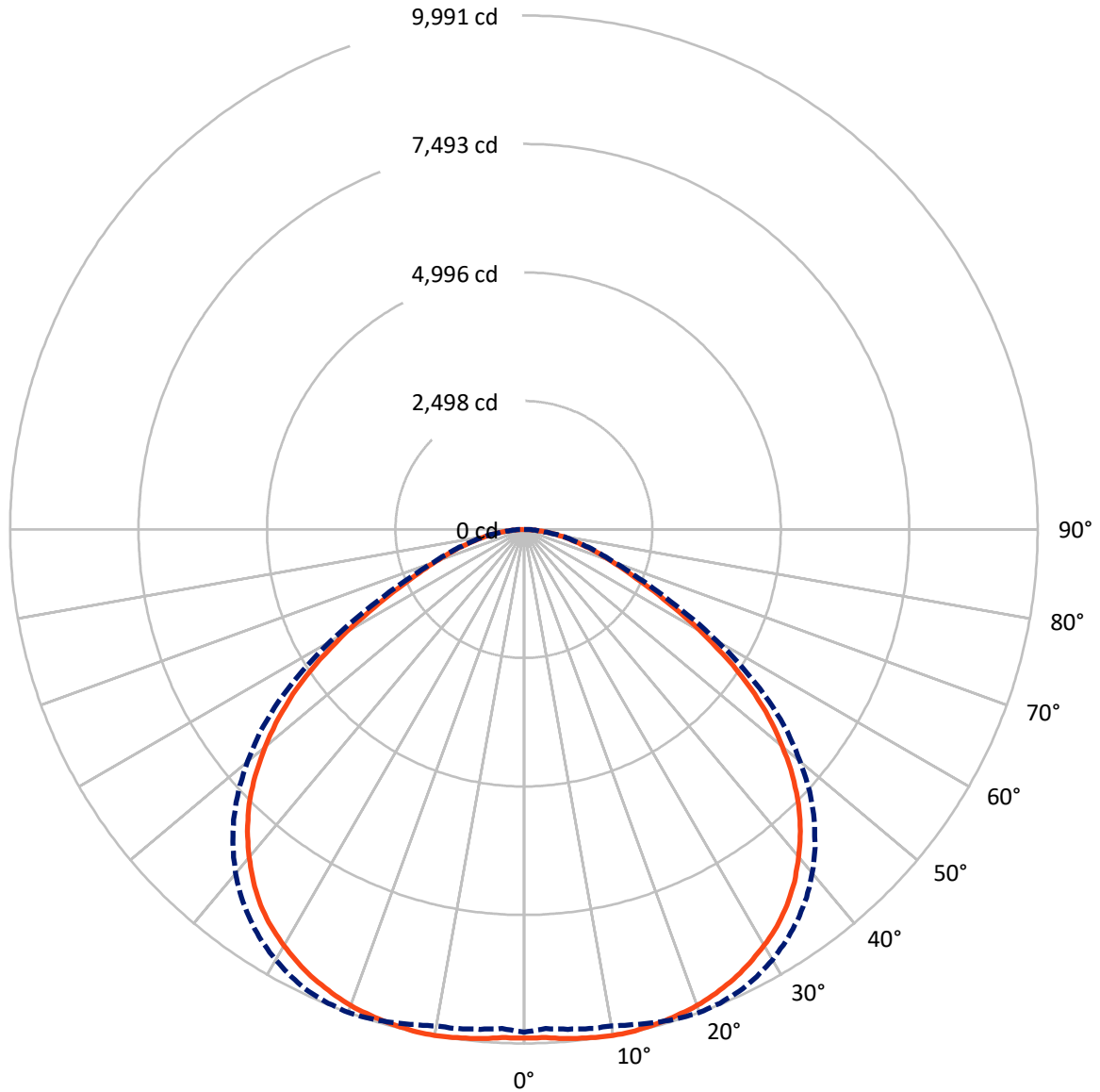
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Iso-Candela Plot



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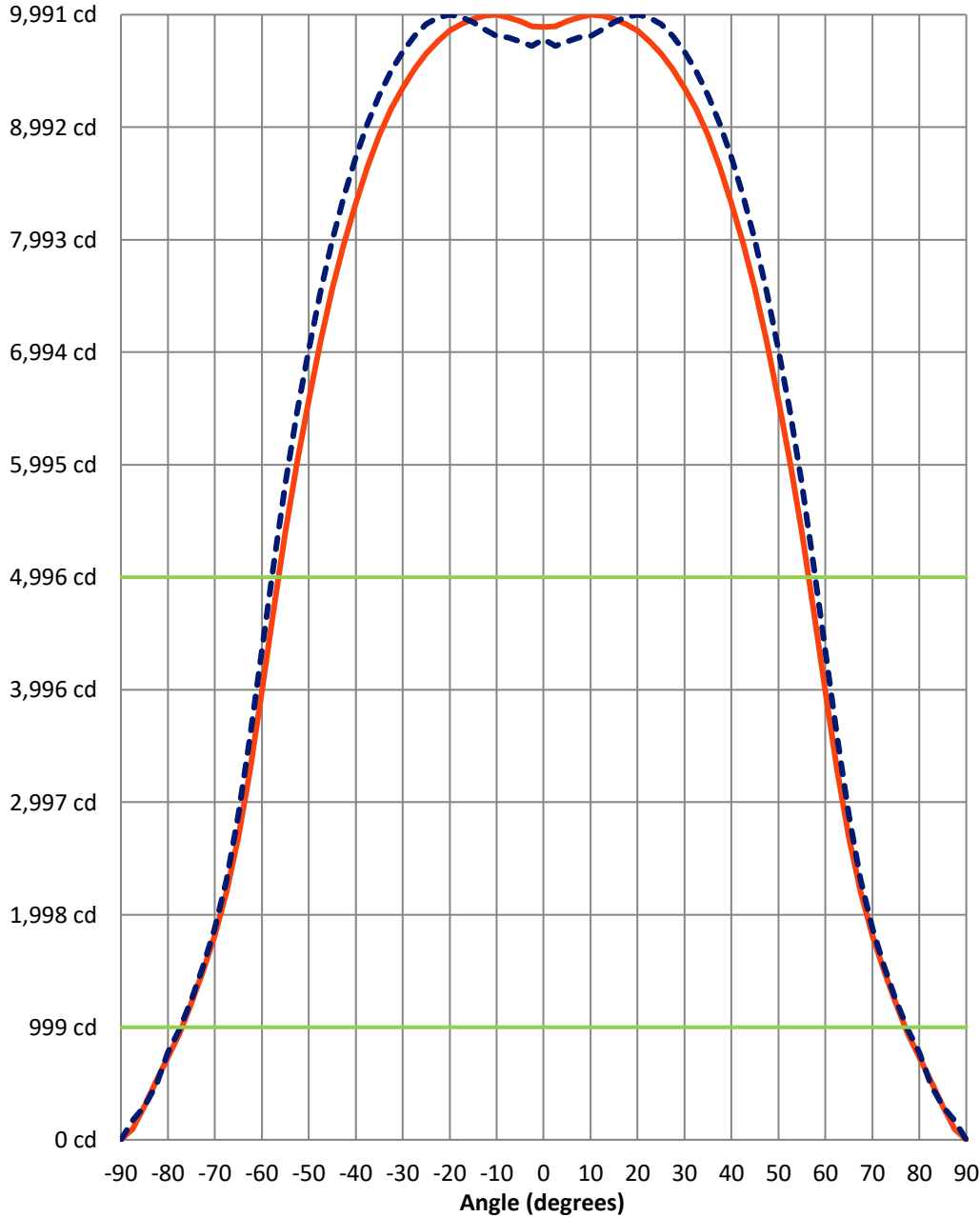
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 18808.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 22547.8
 Efficiency: 73.6%

Spill:
 Lumens: 8103.3
 Efficiency: 26.4%

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



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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°	80.6	87.1	90.3	93.5	96.7	100.0	103.2	100.0	96.7	96.7	93.5
85°	216.1	222.5	225.7	248.3	270.9	283.8	299.9	296.7	296.7	293.5	290.2
82.5°	432.1	451.5	467.6	490.2	503.1	522.4	535.3	525.7	519.2	506.3	496.6
80°	767.5	774.0	777.2	780.4	764.3	761.1	754.6	745.0	732.1	715.9	699.8
77.5°	977.2	983.6	990.1	983.6	980.4	977.2	967.5	957.8	944.9	932.0	912.7
75°	1293.2	1293.2	1293.2	1283.5	1277.1	1267.4	1251.3	1235.2	1212.6	1186.8	1157.8
72.5°	1628.6	1625.4	1622.2	1602.8	1586.7	1567.3	1544.8	1525.4	1499.6	1470.6	1431.9
70°	1980.1	1986.6	1989.8	1964.0	1944.7	1918.9	1889.8	1854.4	1815.7	1773.7	1718.9
67.5°	2463.9	2457.4	2451.0	2415.5	2389.7	2354.2	2312.3	2260.7	2202.7	2138.2	2060.8
65°	3063.7	3073.4	3054.1	3018.6	2970.2	2912.2	2847.7	2773.5	2686.4	2589.7	2480.0
62.5°	3789.4	3805.5	3782.9	3737.8	3676.5	3599.1	3508.8	3402.4	3283.0	3147.6	3012.1
60°	4615.0	4611.7	4569.8	4508.5	4427.9	4331.2	4231.2	4115.1	3979.6	3821.6	3657.1
57.5°	5372.8	5366.4	5314.8	5253.5	5172.9	5069.7	4963.3	4840.7	4698.8	4531.1	4340.8
55°	6053.3	6046.9	5995.3	5930.8	5846.9	5743.7	5647.0	5530.9	5392.2	5214.8	5011.6
52.5°	6656.4	6659.6	6614.5	6543.5	6453.2	6353.2	6259.7	6143.6	6011.4	5834.0	5637.3
50°	7211.1	7207.9	7159.5	7095.0	7011.1	6914.4	6820.9	6704.8	6566.1	6395.2	6204.9
47.5°	7727.1	7720.6	7665.8	7594.9	7507.8	7423.9	7336.9	7233.7	7088.5	6917.6	6727.3
45°	8159.2	8146.3	8091.5	8023.8	7939.9	7865.8	7788.4	7711.0	7556.2	7398.1	7217.5
42.5°	8530.1	8526.9	8472.1	8404.3	8320.5	8256.0	8185.0	8088.3	7959.3	7814.2	7636.8
40°	8884.9	8859.1	8804.2	8739.7	8662.3	8607.5	8536.6	8439.8	8314.0	8172.1	8001.2
37.5°	9149.3	9152.5	9094.5	9023.5	8955.8	8904.2	8839.7	8749.4	8639.8	8501.1	8330.2
35°	9400.9	9384.7	9336.4	9275.1	9213.8	9155.8	9088.0	9010.6	8920.3	8791.3	8630.1
32.5°	9565.3	9587.9	9529.9	9465.4	9429.9	9384.7	9313.8	9233.2	9152.5	9023.5	8878.4
30°	9745.9	9726.6	9681.4	9626.6	9600.8	9571.8	9510.5	9433.1	9339.6	9223.5	9088.0
27.5°	9871.7	9862.0	9807.2	9755.6	9742.7	9716.9	9668.5	9600.8	9507.3	9394.4	9268.6
25°	9926.5	9933.0	9881.4	9852.4	9852.4	9836.2	9797.5	9739.5	9646.0	9542.8	9420.2
22.5°	9952.3	9945.9	9910.4	9904.0	9920.1	9907.2	9891.1	9839.5	9755.6	9671.8	9568.6
20°	9968.5	9923.3	9891.1	9916.9	9936.2	9933.0	9920.1	9887.8	9849.1	9778.2	9687.9
17.5°	9933.0	9904.0	9865.3	9904.0	9945.9	9949.1	9936.2	9916.9	9907.2	9862.0	9781.4
15°	9845.9	9823.3	9829.8	9868.5	9916.9	9933.0	9942.7	9965.2	9952.3	9916.9	9845.9
12.5°	9787.9	9758.8	9787.9	9826.6	9852.4	9862.0	9939.4	9981.4	9981.4	9949.1	9904.0
10°	9771.7	9713.7	9752.4	9787.9	9800.8	9858.8	9923.3	9968.5	9991.0	9965.2	9907.2
7.5°	9739.5	9700.8	9716.9	9733.0	9807.2	9849.1	9884.6	9933.0	9965.2	9962.0	9910.4
5°	9723.4	9675.0	9681.4	9749.2	9800.8	9829.8	9842.7	9884.6	9933.0	9942.7	9904.0
2.5°	9681.4	9658.9	9707.2	9713.7	9752.4	9775.0	9787.9	9826.6	9887.8	9910.4	9894.3
0°	9658.9	9626.6	9594.4	9620.2	9684.7	9733.0	9752.4	9810.4	9881.4	9904.0	9868.5



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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°	90.3	87.1	83.8	80.6	83.8	83.8	83.8	80.6	83.8	80.6	80.6
85°	280.6	267.7	258.0	245.1	232.2	222.5	209.6	196.7	193.5	190.3	183.8
82.5°	483.7	467.6	451.5	432.1	412.8	390.2	367.6	341.8	335.4	328.9	319.3
80°	680.5	657.9	635.3	612.7	593.4	570.8	545.0	516.0	496.6	480.5	461.2
77.5°	886.9	854.6	822.4	783.7	761.1	738.5	712.7	683.7	654.7	628.9	599.8
75°	1122.3	1086.8	1054.6	1015.9	973.9	932.0	890.1	851.4	809.5	770.8	732.1
72.5°	1383.5	1331.9	1280.3	1231.9	1180.3	1128.7	1073.9	1022.3	970.7	919.1	864.3
70°	1657.6	1593.1	1528.6	1464.1	1396.4	1328.7	1264.2	1199.7	1135.2	1067.5	1006.2
67.5°	1980.1	1906.0	1822.1	1731.8	1631.8	1544.8	1460.9	1383.5	1306.1	1228.7	1151.3
65°	2383.3	2280.1	2167.2	2044.6	1928.5	1812.4	1689.9	1573.8	1483.5	1393.2	1306.1
62.5°	2879.9	2734.8	2576.8	2418.7	2276.8	2125.3	1983.4	1831.8	1689.9	1560.9	1454.5
60°	3473.3	3276.6	3083.1	2879.9	2683.2	2476.8	2296.2	2109.1	1931.8	1773.7	1618.9
57.5°	4128.0	3899.0	3666.8	3418.5	3150.8	2908.9	2663.8	2418.7	2209.1	1999.5	1825.3
55°	4792.3	4550.5	4289.2	4008.7	3715.2	3405.6	3073.4	2799.3	2512.3	2267.2	2041.4
52.5°	5424.4	5172.9	4902.0	4644.0	4292.5	3937.7	3573.3	3212.1	2876.7	2563.9	2289.7
50°	5988.8	5743.7	5482.5	5182.6	4856.8	4479.5	4073.2	3666.8	3270.1	2902.5	2560.6
47.5°	6504.8	6266.2	6004.9	5705.0	5408.3	4989.1	4579.5	4131.2	3689.4	3266.9	2867.0
45°	6988.6	6746.7	6475.8	6188.8	5846.9	5472.8	5050.3	4598.8	4124.8	3650.7	3189.5
42.5°	7427.2	7185.3	6911.2	6614.5	6275.8	5905.0	5495.4	5040.7	4563.4	4047.4	3541.0
40°	7810.9	7575.5	7311.1	7001.5	6685.4	6295.2	5892.1	5459.9	4966.5	4447.3	3889.3
37.5°	8146.3	7927.0	7665.8	7359.4	7024.0	6675.7	6259.7	5827.6	5382.5	4818.1	4247.3
35°	8443.0	8239.9	7972.2	7681.9	7353.0	6985.3	6595.1	6172.6	5692.1	5163.2	4608.5
32.5°	8701.0	8494.6	8249.5	7959.3	7640.0	7294.9	6895.0	6469.3	6014.6	5476.0	4873.0
30°	8920.3	8720.4	8488.2	8214.1	7907.7	7565.8	7175.6	6746.7	6282.3	5746.9	5150.3
27.5°	9110.6	8920.3	8694.6	8439.8	8146.3	7817.4	7423.9	6991.8	6517.7	6001.7	5405.1
25°	9275.1	9091.3	8881.6	8639.8	8349.5	8027.0	7656.1	7204.6	6730.6	6211.3	5621.2
22.5°	9423.4	9246.1	9036.4	8801.0	8536.6	8214.1	7840.0	7391.7	6911.2	6398.4	5817.9
20°	9555.7	9391.2	9184.8	8942.9	8678.5	8352.7	7981.9	7556.2	7072.4	6569.3	5995.3
17.5°	9662.1	9517.0	9310.6	9055.8	8791.3	8475.3	8114.1	7723.9	7211.1	6714.4	6143.6
15°	9736.3	9594.4	9407.3	9149.3	8891.3	8578.5	8217.3	7814.2	7336.9	6830.5	6266.2
12.5°	9787.9	9636.3	9462.1	9223.5	8965.5	8655.9	8304.4	7907.7	7443.3	6933.7	6372.6
10°	9800.8	9662.1	9487.9	9275.1	9023.5	8723.6	8378.5	7985.1	7530.4	7014.4	6459.7
7.5°	9807.2	9675.0	9517.0	9313.8	9065.5	8775.2	8433.4	8046.4	7594.9	7082.1	6524.2
5°	9804.0	9678.2	9536.3	9339.6	9091.3	8804.2	8468.8	8088.3	7640.0	7127.2	6572.5
2.5°	9794.3	9681.4	9549.2	9358.9	9120.3	8836.5	8504.3	8136.7	7688.4	7165.9	6611.2
0°	9820.1	9723.4	9555.7	9352.5	9126.7	8836.5	8501.1	8143.1	7694.8	7162.7	6608.0



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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°	80.6	77.4	77.4	74.2	70.9	67.7	61.3	58.0	51.6	41.9	32.2
85°	174.1	164.5	154.8	148.3	141.9	135.4	125.8	116.1	103.2	83.8	64.5
82.5°	306.4	287.0	267.7	245.1	225.7	206.4	190.3	174.1	154.8	125.8	96.7
80°	438.6	409.6	380.5	348.3	319.3	287.0	258.0	232.2	206.4	167.7	129.0
77.5°	570.8	532.1	490.2	451.5	409.6	367.6	325.7	290.2	251.5	206.4	161.2
75°	693.4	648.2	609.5	554.7	503.1	448.3	393.4	345.1	296.7	241.9	193.5
72.5°	815.9	757.9	703.0	651.4	593.4	525.7	464.4	403.1	341.8	277.3	219.3
70°	938.5	867.5	799.8	738.5	674.0	606.3	532.1	461.2	387.0	309.6	241.9
67.5°	1064.2	983.6	906.2	828.8	754.6	677.2	599.8	519.2	432.1	341.8	267.7
65°	1202.9	1102.9	1009.4	922.3	835.3	751.4	664.3	577.3	480.5	377.3	290.2
62.5°	1341.6	1231.9	1122.3	1012.6	915.9	822.4	728.8	632.1	525.7	416.0	312.8
60°	1489.9	1364.2	1238.4	1115.8	996.5	893.3	790.1	686.9	574.0	451.5	335.4
57.5°	1654.4	1502.8	1360.9	1222.3	1086.8	964.3	851.4	741.7	616.0	487.0	361.2
55°	1841.5	1654.4	1486.7	1331.9	1183.6	1035.2	912.7	799.8	664.3	522.4	390.2
52.5°	2038.2	1822.1	1618.9	1444.8	1286.8	1119.1	970.7	844.9	712.7	557.9	416.0
50°	2267.2	1993.0	1767.3	1554.4	1377.1	1202.9	1032.0	896.5	761.1	599.8	441.8
47.5°	2502.6	2199.4	1915.6	1683.4	1473.8	1283.5	1102.9	941.7	806.2	638.5	467.6
45°	2776.7	2396.2	2083.3	1809.2	1567.3	1367.4	1173.9	990.1	844.9	677.2	493.4
42.5°	3041.2	2628.4	2257.5	1947.9	1673.8	1448.0	1238.4	1041.7	883.6	715.9	516.0
40°	3354.0	2860.6	2425.2	2080.1	1780.2	1525.4	1302.9	1096.5	919.1	751.4	538.6
37.5°	3653.9	3096.0	2628.4	2225.2	1883.4	1602.8	1367.4	1148.1	951.4	786.9	567.6
35°	3950.6	3357.2	2821.9	2360.7	1989.8	1689.9	1431.9	1196.5	983.6	815.9	593.4
32.5°	4234.4	3602.3	3018.6	2512.3	2105.9	1770.5	1489.9	1241.6	1015.9	841.7	619.2
30°	4498.9	3834.5	3212.1	2667.1	2212.3	1844.7	1544.8	1286.8	1054.6	864.3	645.0
27.5°	4740.7	4060.3	3405.6	2812.2	2312.3	1912.4	1602.8	1328.7	1086.8	886.9	667.6
25°	4960.0	4263.4	3583.0	2944.4	2402.6	1986.6	1657.6	1370.6	1115.8	906.2	686.9
22.5°	5166.4	4450.5	3744.2	3076.6	2512.3	2060.8	1709.2	1409.3	1144.9	925.6	706.3
20°	5347.0	4621.4	3899.0	3208.9	2609.0	2128.5	1754.4	1444.8	1170.7	938.5	725.6
17.5°	5492.2	4773.0	4037.7	3325.0	2692.9	2186.5	1793.1	1477.0	1193.2	954.6	738.5
15°	5621.2	4902.0	4153.8	3424.9	2767.0	2234.9	1828.6	1502.8	1212.6	964.3	754.6
12.5°	5730.8	5011.6	4253.8	3512.0	2831.5	2276.8	1857.6	1522.2	1228.7	973.9	764.3
10°	5821.1	5098.7	4337.6	3579.7	2883.1	2309.1	1880.2	1541.5	1241.6	983.6	774.0
7.5°	5888.8	5163.2	4398.9	3637.8	2925.1	2331.7	1899.5	1554.4	1254.5	990.1	790.1
5°	5940.4	5218.0	4447.3	3676.5	2957.3	2363.9	1922.1	1570.6	1267.4	996.5	790.1
2.5°	5979.1	5263.2	4486.0	3708.7	2983.1	2357.5	1922.1	1567.3	1267.4	996.5	786.9
0°	5972.7	5266.4	4482.7	3708.7	2983.1	2351.0	1922.1	1564.1	1267.4	996.5	786.9



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 CATALOG NUMBER: IFLD-L-SA7B-727-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.6	16.1	6.4	0.0
85°	48.4	32.2	16.1	0.0
82.5°	70.9	45.1	22.6	0.0
80°	93.5	61.3	29.0	0.0
77.5°	119.3	77.4	38.7	0.0
75°	141.9	90.3	45.1	0.0
72.5°	164.5	106.4	51.6	0.0
70°	183.8	119.3	58.0	0.0
67.5°	203.2	135.4	67.7	0.0
65°	219.3	148.3	74.2	0.0
62.5°	232.2	164.5	80.6	0.0
60°	248.3	177.4	87.1	0.0
57.5°	261.2	187.0	93.5	0.0
55°	274.1	193.5	100.0	0.0
52.5°	287.0	203.2	106.4	0.0
50°	299.9	212.8	112.9	0.0
47.5°	312.8	219.3	116.1	0.0
45°	332.2	229.0	122.5	0.0
42.5°	348.3	235.4	129.0	0.0
40°	364.4	241.9	132.2	0.0
37.5°	380.5	248.3	138.7	0.0
35°	396.7	254.8	141.9	0.0
32.5°	409.6	261.2	145.1	0.0
30°	422.5	267.7	148.3	0.0
27.5°	435.4	270.9	151.6	0.0
25°	445.0	277.3	154.8	0.0
22.5°	454.7	280.6	158.0	0.0
20°	461.2	283.8	161.2	0.0
17.5°	470.8	287.0	164.5	0.0
15°	474.1	290.2	170.9	0.0
12.5°	480.5	293.5	170.9	0.0
10°	483.7	296.7	170.9	0.0
7.5°	490.2	296.7	170.9	0.0
5°	487.0	296.7	170.9	0.0
2.5°	487.0	296.7	170.9	0.0
0°	483.7	296.7	170.9	0.0

(END OF REPORT)