

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: P628374

Luminaire Tested: **IFLD-L-SA7B-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628374
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

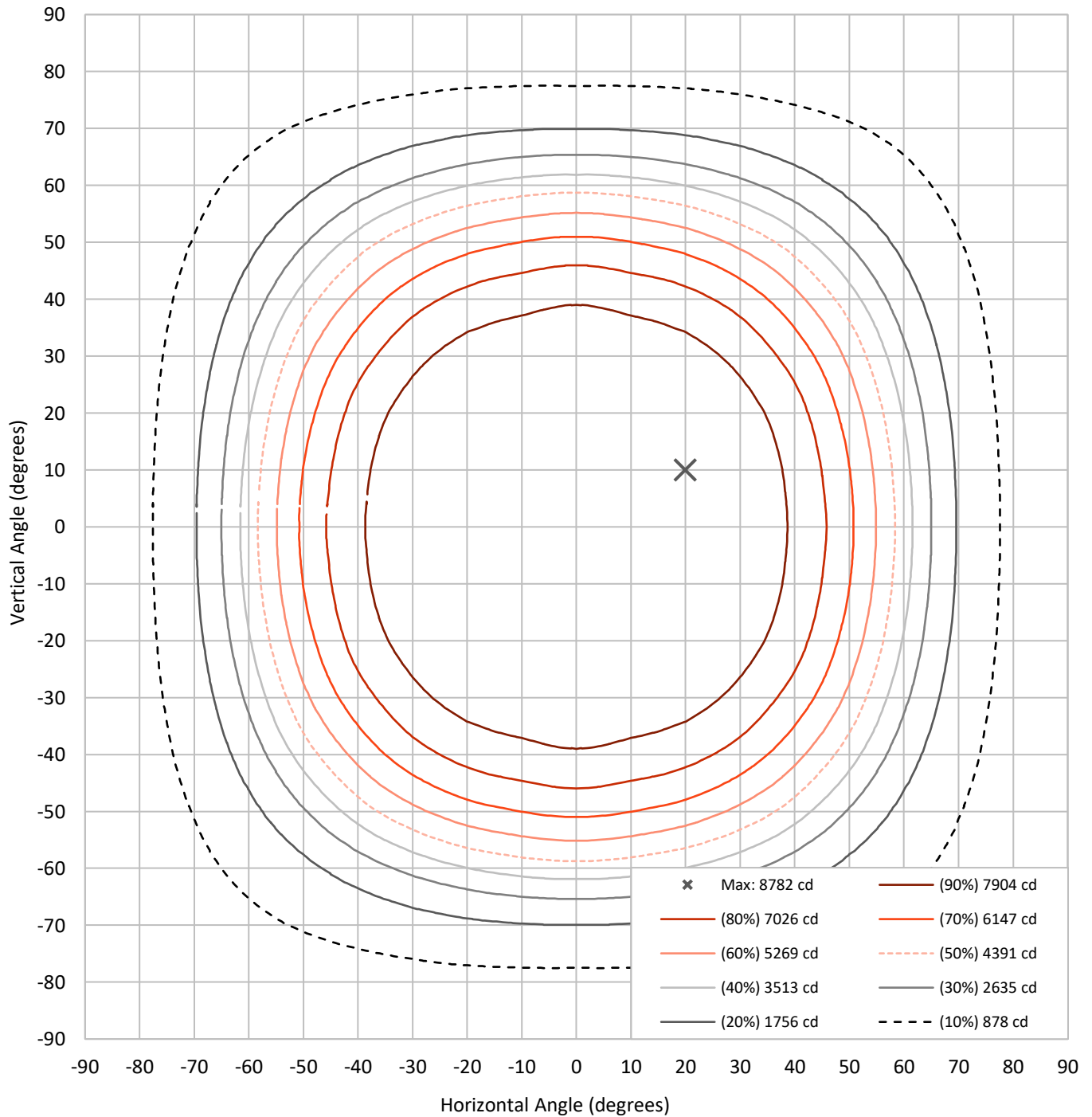
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	26942.1 lumens	Max Intensity:	8782 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	95.9 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:	16532.2 lumens	Field Lumens:	19819.3 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		



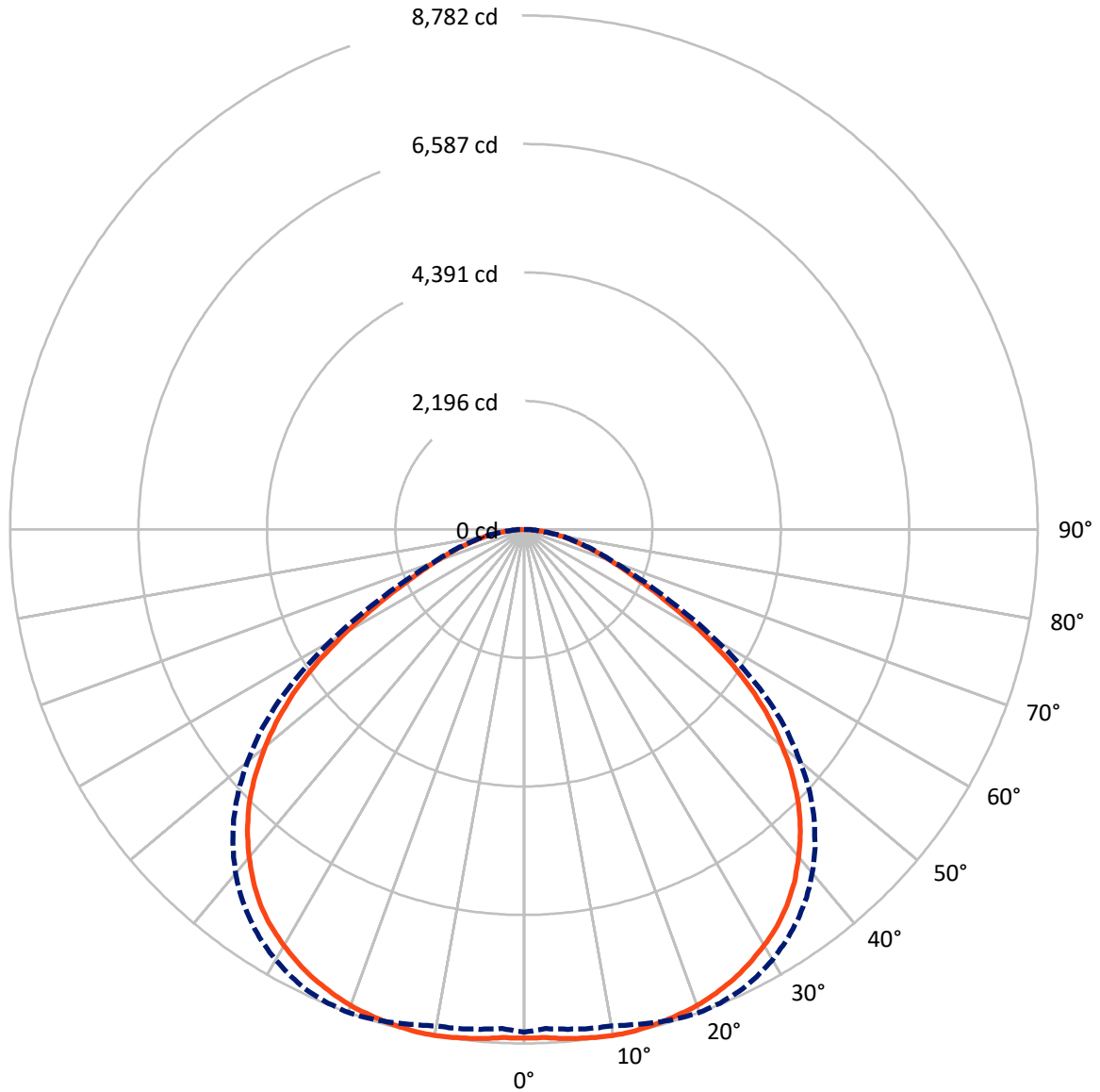
REPORT NUMBER: P628374
CATALOG NUMBER: IFLD-L-SA7B-827-U-LAM

Iso-Candela Plot



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CATALOG NUMBER: IFLD-L-SA7B-827-U-LAM

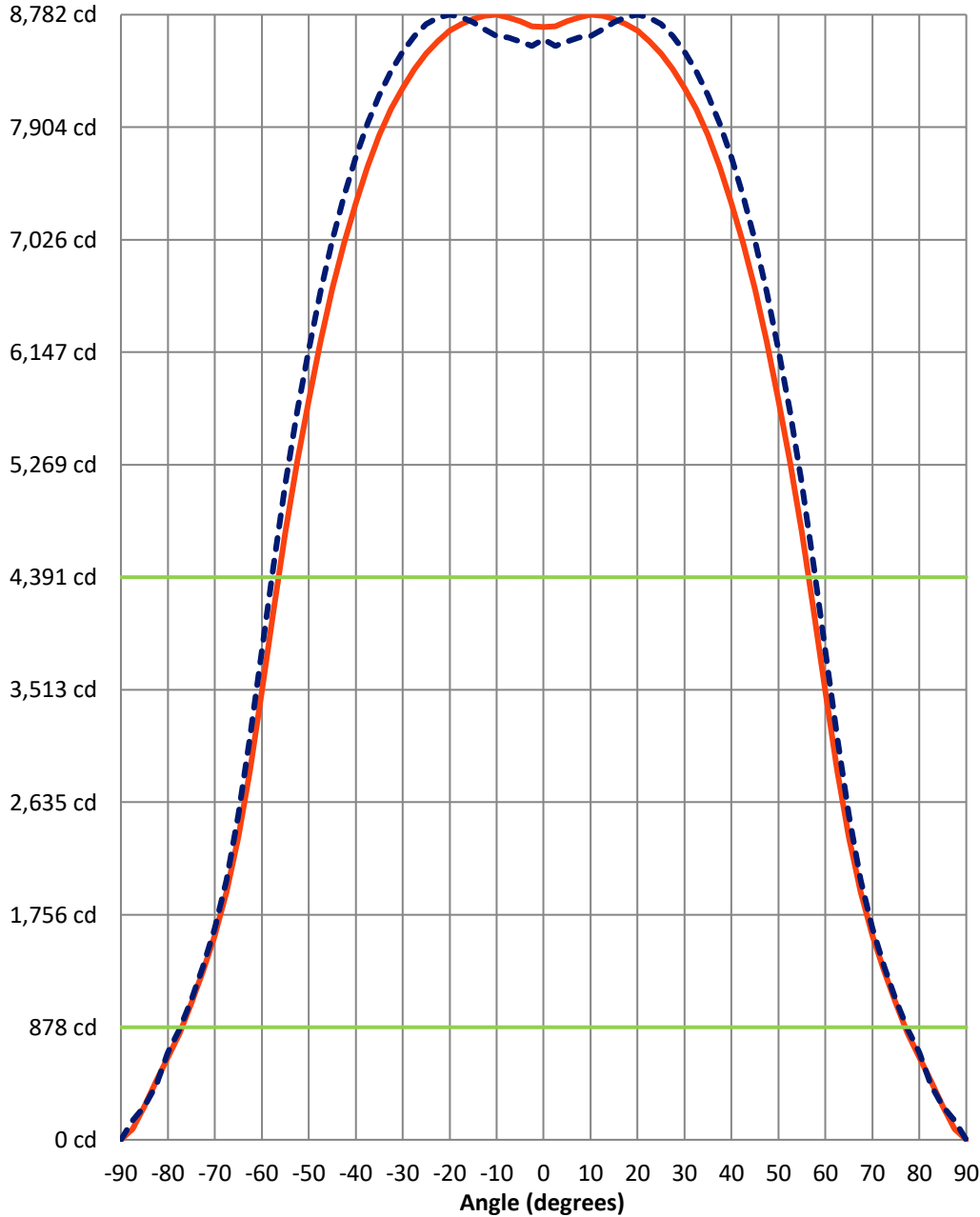
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628374
 CATALOG NUMBER: IFLD-L-SA7B-827-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 16532.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 19819.3
 Efficiency: 73.6%

Spill:
 Lumens: 7122.8
 Efficiency: 26.4%

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



REPORT NUMBER: P628374
 CATALOG NUMBER: IFLD-L-SA7B-827-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°	70.9	76.5	79.4	82.2	85.0	87.9	90.7	87.9	85.0	85.0	82.2
85°	189.9	195.6	198.4	218.3	238.1	249.5	263.6	260.8	260.8	258.0	255.1
82.5°	379.9	396.9	411.0	430.9	442.2	459.2	470.6	462.1	456.4	445.1	436.6
80°	674.7	680.3	683.2	686.0	671.8	669.0	663.3	654.8	643.5	629.3	615.1
77.5°	858.9	864.6	870.3	864.6	861.8	858.9	850.4	841.9	830.6	819.2	802.2
75°	1136.7	1136.7	1136.7	1128.2	1122.6	1114.1	1099.9	1085.7	1065.9	1043.2	1017.7
72.5°	1431.5	1428.7	1425.9	1408.9	1394.7	1377.7	1357.8	1340.8	1318.2	1292.6	1258.6
70°	1740.5	1746.2	1749.0	1726.4	1709.4	1686.7	1661.2	1630.0	1596.0	1559.1	1510.9
67.5°	2165.7	2160.1	2154.4	2123.2	2100.5	2069.4	2032.5	1987.2	1936.1	1879.4	1811.4
65°	2693.0	2701.5	2684.5	2653.3	2610.8	2559.8	2503.1	2437.9	2361.3	2276.3	2179.9
62.5°	3330.8	3345.0	3325.2	3285.5	3231.6	3163.6	3084.2	2990.7	2885.8	2766.7	2647.7
60°	4056.5	4053.7	4016.8	3963.0	3892.1	3807.1	3719.2	3617.1	3498.1	3359.2	3214.6
57.5°	4722.7	4717.0	4671.7	4617.8	4546.9	4456.2	4362.7	4255.0	4130.2	3982.8	3815.6
55°	5320.8	5315.1	5269.8	5213.1	5139.4	5048.7	4963.6	4861.6	4739.7	4583.8	4405.2
52.5°	5850.9	5853.7	5814.1	5751.7	5672.3	5584.4	5502.2	5400.2	5284.0	5128.1	4955.1
50°	6338.5	6335.7	6293.1	6236.4	6162.7	6077.7	5995.5	5893.4	5771.5	5621.3	5454.0
47.5°	6792.0	6786.4	6738.2	6675.8	6599.3	6525.6	6449.0	6358.3	6230.8	6080.5	5913.3
45°	7171.9	7160.6	7112.4	7052.8	6979.1	6913.9	6845.9	6777.9	6641.8	6502.9	6344.2
42.5°	7497.9	7495.1	7446.9	7387.3	7313.6	7256.9	7194.6	7109.5	6996.1	6868.6	6712.7
40°	7809.7	7787.0	7738.9	7682.2	7614.1	7565.9	7503.6	7418.5	7308.0	7183.2	7033.0
37.5°	8042.2	8045.0	7994.0	7931.6	7872.1	7826.7	7770.0	7690.7	7594.3	7472.4	7322.1
35°	8263.3	8249.1	8206.6	8152.7	8098.9	8047.8	7988.3	7920.3	7840.9	7727.5	7585.8
32.5°	8407.9	8427.7	8376.7	8320.0	8288.8	8249.1	8186.7	8115.9	8045.0	7931.6	7804.1
30°	8566.6	8549.6	8509.9	8461.7	8439.0	8413.5	8359.7	8291.6	8209.4	8107.4	7988.3
27.5°	8677.2	8668.6	8620.5	8575.1	8563.8	8541.1	8498.6	8439.0	8356.8	8257.6	8147.1
25°	8725.3	8731.0	8685.7	8660.1	8660.1	8646.0	8612.0	8560.9	8478.7	8388.0	8280.3
22.5°	8748.0	8742.4	8711.2	8705.5	8719.7	8708.3	8694.2	8648.8	8575.1	8501.4	8410.7
20°	8762.2	8722.5	8694.2	8716.8	8733.8	8731.0	8719.7	8691.3	8657.3	8594.9	8515.6
17.5°	8731.0	8705.5	8671.5	8705.5	8742.4	8745.2	8733.8	8716.8	8708.3	8668.6	8597.8
15°	8654.5	8634.6	8640.3	8674.3	8716.8	8731.0	8739.5	8759.4	8748.0	8716.8	8654.5
12.5°	8603.4	8577.9	8603.4	8637.5	8660.1	8668.6	8736.7	8773.5	8773.5	8745.2	8705.5
10°	8589.3	8538.2	8572.3	8603.4	8614.8	8665.8	8722.5	8762.2	8782.0	8759.4	8708.3
7.5°	8560.9	8526.9	8541.1	8555.3	8620.5	8657.3	8688.5	8731.0	8759.4	8756.5	8711.2
5°	8546.8	8504.2	8509.9	8569.4	8614.8	8640.3	8651.6	8688.5	8731.0	8739.5	8705.5
2.5°	8509.9	8490.1	8532.6	8538.2	8572.3	8592.1	8603.4	8637.5	8691.3	8711.2	8697.0
0°	8490.1	8461.7	8433.4	8456.0	8512.7	8555.3	8572.3	8623.3	8685.7	8705.5	8674.3



REPORT NUMBER: P628374
 CATALOG NUMBER: IFLD-L-SA7B-827-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°	79.4	76.5	73.7	70.9	73.7	73.7	73.7	70.9	73.7	70.9	70.9
85°	246.6	235.3	226.8	215.4	204.1	195.6	184.3	172.9	170.1	167.2	161.6
82.5°	425.2	411.0	396.9	379.9	362.8	343.0	323.2	300.5	294.8	289.1	280.6
80°	598.1	578.3	558.4	538.6	521.6	501.7	479.1	453.6	436.6	422.4	405.4
77.5°	779.6	751.2	722.9	688.8	669.0	649.2	626.5	601.0	575.5	552.8	527.3
75°	986.5	955.3	927.0	892.9	856.1	819.2	782.4	748.4	711.5	677.5	643.5
72.5°	1216.1	1170.7	1125.4	1082.9	1037.5	992.2	944.0	898.6	853.3	807.9	759.7
70°	1457.1	1400.4	1343.7	1287.0	1227.4	1167.9	1111.2	1054.5	997.8	938.3	884.4
67.5°	1740.5	1675.3	1601.6	1522.3	1434.4	1357.8	1284.1	1216.1	1148.1	1080.0	1012.0
65°	2094.9	2004.2	1904.9	1797.2	1695.2	1593.1	1485.4	1383.4	1304.0	1224.6	1148.1
62.5°	2531.4	2403.9	2265.0	2126.1	2001.3	1868.1	1743.4	1610.1	1485.4	1372.0	1278.5
60°	3053.0	2880.1	2710.0	2531.4	2358.5	2177.1	2018.3	1853.9	1698.0	1559.1	1423.0
57.5°	3628.5	3427.2	3223.1	3004.8	2769.5	2556.9	2341.5	2126.1	1941.8	1757.5	1604.5
55°	4212.4	3999.8	3770.2	3523.6	3265.6	2993.5	2701.5	2460.6	2208.3	1992.8	1794.4
52.5°	4768.0	4546.9	4308.8	4082.0	3773.0	3461.2	3140.9	2823.4	2528.6	2253.6	2012.7
50°	5264.1	5048.7	4819.1	4555.4	4269.1	3937.5	3580.3	3223.1	2874.4	2551.3	2250.8
47.5°	5717.7	5507.9	5278.3	5014.7	4753.9	4385.3	4025.3	3631.3	3242.9	2871.6	2520.1
45°	6142.9	5930.3	5692.2	5439.9	5139.4	4810.6	4439.2	4042.3	3625.6	3208.9	2803.6
42.5°	6528.4	6315.8	6074.9	5814.1	5516.4	5190.4	4830.4	4430.7	4011.2	3557.6	3112.5
40°	6865.8	6658.8	6426.4	6154.2	5876.4	5533.4	5179.1	4799.2	4365.5	3909.1	3418.7
37.5°	7160.6	6967.8	6738.2	6468.9	6174.1	5867.9	5502.2	5122.4	4731.2	4235.1	3733.4
35°	7421.4	7242.8	7007.5	6752.4	6463.2	6140.1	5797.1	5425.7	5003.3	4538.4	4050.8
32.5°	7648.1	7466.7	7251.3	6996.1	6715.5	6412.2	6060.7	5686.5	5286.8	4813.4	4283.3
30°	7840.9	7665.1	7461.0	7220.1	6950.8	6650.3	6307.3	5930.3	5522.1	5051.5	4527.1
27.5°	8008.2	7840.9	7642.5	7418.5	7160.6	6871.4	6525.6	6145.7	5729.0	5275.5	4751.0
25°	8152.7	7991.1	7806.9	7594.3	7339.2	7055.7	6729.7	6332.8	5916.1	5459.7	4941.0
22.5°	8283.1	8127.2	7943.0	7736.0	7503.6	7220.1	6891.3	6497.2	6074.9	5624.1	5113.9
20°	8399.3	8254.8	8073.4	7860.7	7628.3	7342.0	7016.0	6641.8	6216.6	5774.4	5269.8
17.5°	8492.9	8365.3	8183.9	7960.0	7727.5	7449.7	7132.2	6789.2	6338.5	5901.9	5400.2
15°	8558.1	8433.4	8268.9	8042.2	7815.4	7540.4	7222.9	6868.6	6449.0	6004.0	5507.9
12.5°	8603.4	8470.2	8317.1	8107.4	7880.6	7608.5	7299.5	6950.8	6542.6	6094.7	5601.5
10°	8614.8	8492.9	8339.8	8152.7	7931.6	7668.0	7364.7	7018.8	6619.1	6165.6	5678.0
7.5°	8620.5	8504.2	8365.3	8186.7	7968.5	7713.3	7412.9	7072.7	6675.8	6225.1	5734.7
5°	8617.6	8507.1	8382.3	8209.4	7991.1	7738.9	7444.0	7109.5	6715.5	6264.8	5777.2
2.5°	8609.1	8509.9	8393.7	8226.4	8016.7	7767.2	7475.2	7152.1	6758.0	6298.8	5811.2
0°	8631.8	8546.8	8399.3	8220.8	8022.3	7767.2	7472.4	7157.7	6763.7	6296.0	5808.4



REPORT NUMBER: P628374
 CATALOG NUMBER: IFLD-L-SA7B-827-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°	70.9	68.0	68.0	65.2	62.4	59.5	53.9	51.0	45.4	36.9	28.3
85°	153.1	144.6	136.1	130.4	124.7	119.1	110.6	102.1	90.7	73.7	56.7
82.5°	269.3	252.3	235.3	215.4	198.4	181.4	167.2	153.1	136.1	110.6	85.0
80°	385.5	360.0	334.5	306.2	280.6	252.3	226.8	204.1	181.4	147.4	113.4
77.5°	501.7	467.7	430.9	396.9	360.0	323.2	286.3	255.1	221.1	181.4	141.7
75°	609.5	569.8	535.8	487.6	442.2	394.0	345.8	303.3	260.8	212.6	170.1
72.5°	717.2	666.2	618.0	572.6	521.6	462.1	408.2	354.3	300.5	243.8	192.8
70°	824.9	762.5	703.0	649.2	592.5	532.9	467.7	405.4	340.2	272.1	212.6
67.5°	935.5	864.6	796.6	728.5	663.3	595.3	527.3	456.4	379.9	300.5	235.3
65°	1057.4	969.5	887.3	810.7	734.2	660.5	584.0	507.4	422.4	331.7	255.1
62.5°	1179.3	1082.9	986.5	890.1	805.1	722.9	640.7	555.6	462.1	365.7	275.0
60°	1309.7	1199.1	1088.5	980.8	875.9	785.2	694.5	603.8	504.6	396.9	294.8
57.5°	1454.2	1321.0	1196.3	1074.4	955.3	847.6	748.4	652.0	541.4	428.0	317.5
55°	1618.6	1454.2	1306.8	1170.7	1040.4	910.0	802.2	703.0	584.0	459.2	343.0
52.5°	1791.6	1601.6	1423.0	1270.0	1131.1	983.7	853.3	742.7	626.5	490.4	365.7
50°	1992.8	1751.9	1553.4	1366.3	1210.4	1057.4	907.1	788.1	669.0	527.3	388.4
47.5°	2199.8	1933.3	1683.8	1479.7	1295.5	1128.2	969.5	827.7	708.7	561.3	411.0
45°	2440.7	2106.2	1831.2	1590.3	1377.7	1201.9	1031.8	870.3	742.7	595.3	433.7
42.5°	2673.2	2310.3	1984.3	1712.2	1471.2	1272.8	1088.5	915.6	776.7	629.3	453.6
40°	2948.1	2514.4	2131.7	1828.4	1564.8	1340.8	1145.2	963.8	807.9	660.5	473.4
37.5°	3211.8	2721.4	2310.3	1956.0	1655.5	1408.9	1201.9	1009.2	836.2	691.7	498.9
35°	3472.6	2951.0	2480.4	2075.0	1749.0	1485.4	1258.6	1051.7	864.6	717.2	521.6
32.5°	3722.0	3166.4	2653.3	2208.3	1851.1	1556.3	1309.7	1091.4	892.9	739.9	544.3
30°	3954.5	3370.5	2823.4	2344.3	1944.6	1621.5	1357.8	1131.1	927.0	759.7	566.9
27.5°	4167.1	3568.9	2993.5	2471.9	2032.5	1681.0	1408.9	1167.9	955.3	779.6	586.8
25°	4359.8	3747.5	3149.4	2588.1	2111.9	1746.2	1457.1	1204.8	980.8	796.6	603.8
22.5°	4541.3	3911.9	3291.1	2704.3	2208.3	1811.4	1502.4	1238.8	1006.3	813.6	620.8
20°	4700.0	4062.2	3427.2	2820.6	2293.3	1870.9	1542.1	1270.0	1029.0	824.9	637.8
17.5°	4827.6	4195.4	3549.1	2922.6	2367.0	1922.0	1576.1	1298.3	1048.9	839.1	649.2
15°	4941.0	4308.8	3651.2	3010.5	2432.2	1964.5	1607.3	1321.0	1065.9	847.6	663.3
12.5°	5037.3	4405.2	3739.0	3087.0	2488.9	2001.3	1632.8	1338.0	1080.0	856.1	671.8
10°	5116.7	4481.7	3812.7	3146.6	2534.3	2029.7	1652.7	1355.0	1091.4	864.6	680.3
7.5°	5176.2	4538.4	3866.6	3197.6	2571.1	2049.5	1669.7	1366.3	1102.7	870.3	694.5
5°	5221.6	4586.6	3909.1	3231.6	2599.5	2077.9	1689.5	1380.5	1114.1	875.9	694.5
2.5°	5255.6	4626.3	3943.1	3260.0	2622.1	2072.2	1689.5	1377.7	1114.1	875.9	691.7
0°	5249.9	4629.1	3940.3	3260.0	2622.1	2066.5	1689.5	1374.9	1114.1	875.9	691.7



REPORT NUMBER: P628374
 CATALOG NUMBER: IFLD-L-SA7B-827-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.8	14.2	5.7	0.0
85°	42.5	28.3	14.2	0.0
82.5°	62.4	39.7	19.8	0.0
80°	82.2	53.9	25.5	0.0
77.5°	104.9	68.0	34.0	0.0
75°	124.7	79.4	39.7	0.0
72.5°	144.6	93.5	45.4	0.0
70°	161.6	104.9	51.0	0.0
67.5°	178.6	119.1	59.5	0.0
65°	192.8	130.4	65.2	0.0
62.5°	204.1	144.6	70.9	0.0
60°	218.3	155.9	76.5	0.0
57.5°	229.6	164.4	82.2	0.0
55°	241.0	170.1	87.9	0.0
52.5°	252.3	178.6	93.5	0.0
50°	263.6	187.1	99.2	0.0
47.5°	275.0	192.8	102.1	0.0
45°	292.0	201.3	107.7	0.0
42.5°	306.2	206.9	113.4	0.0
40°	320.3	212.6	116.2	0.0
37.5°	334.5	218.3	121.9	0.0
35°	348.7	223.9	124.7	0.0
32.5°	360.0	229.6	127.6	0.0
30°	371.4	235.3	130.4	0.0
27.5°	382.7	238.1	133.2	0.0
25°	391.2	243.8	136.1	0.0
22.5°	399.7	246.6	138.9	0.0
20°	405.4	249.5	141.7	0.0
17.5°	413.9	252.3	144.6	0.0
15°	416.7	255.1	150.2	0.0
12.5°	422.4	258.0	150.2	0.0
10°	425.2	260.8	150.2	0.0
7.5°	430.9	260.8	150.2	0.0
5°	428.0	260.8	150.2	0.0
2.5°	428.0	260.8	150.2	0.0
0°	425.2	260.8	150.2	0.0

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