

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: P623861

Luminaire Tested: **IFLD-L-SA7B-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623861
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 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:	30919.8 lumens	Max Intensity:	17172.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	110.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	13378.7 lumens	Field Lumens:	21907.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

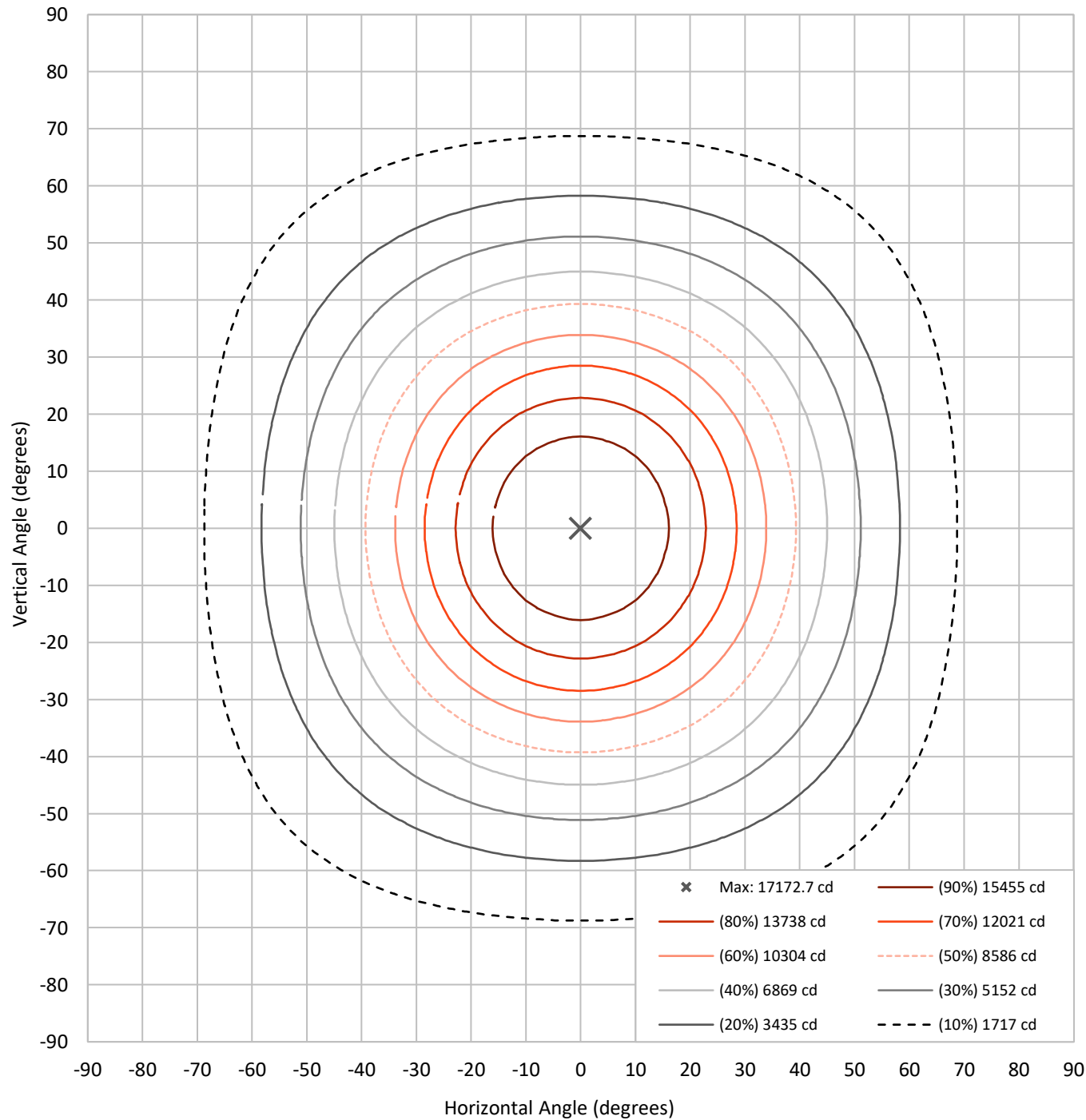
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





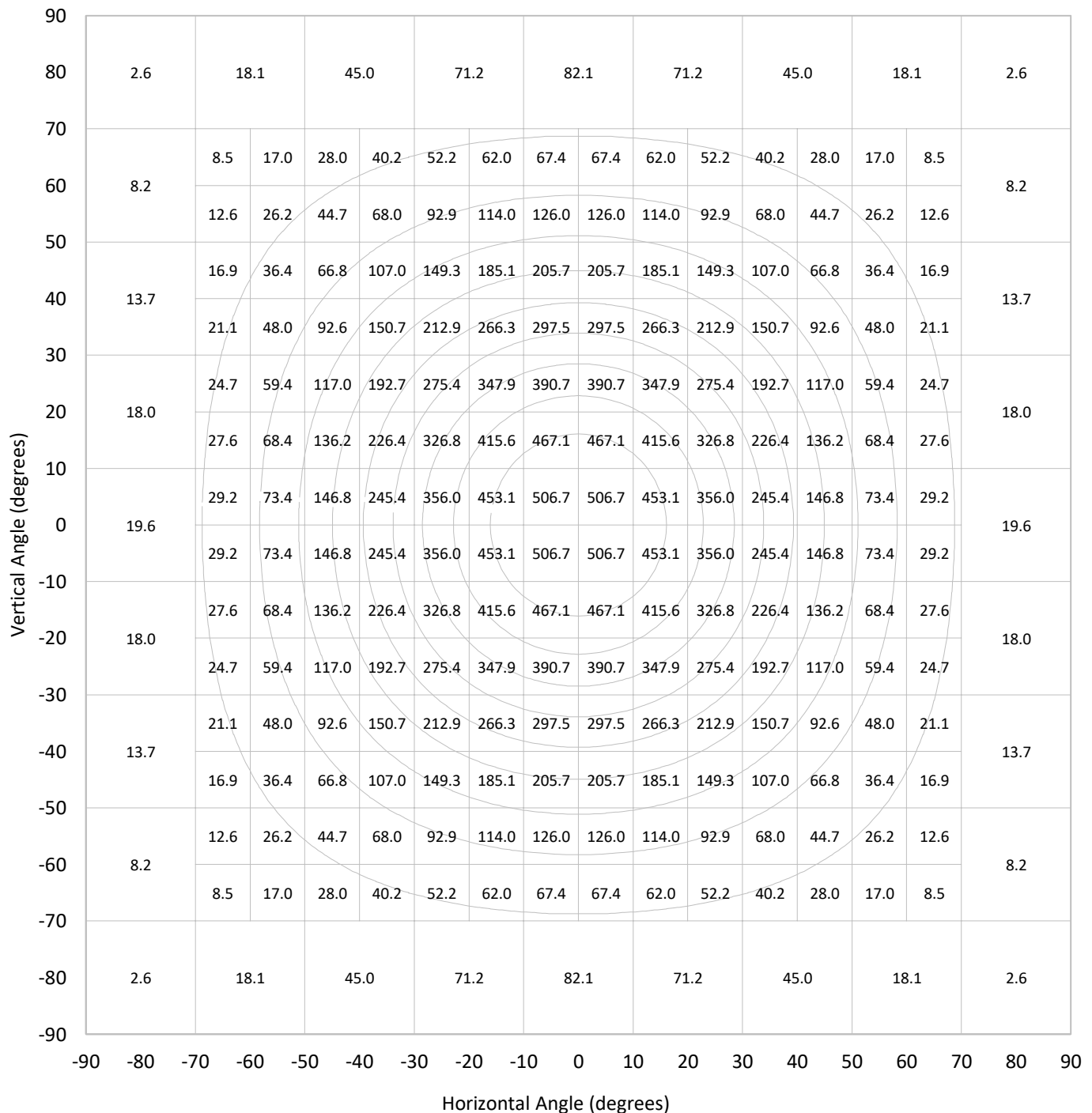
REPORT NUMBER: P623861
CATALOG NUMBER: IFLD-L-SA7B-727-U-77

Iso-Candela Plot



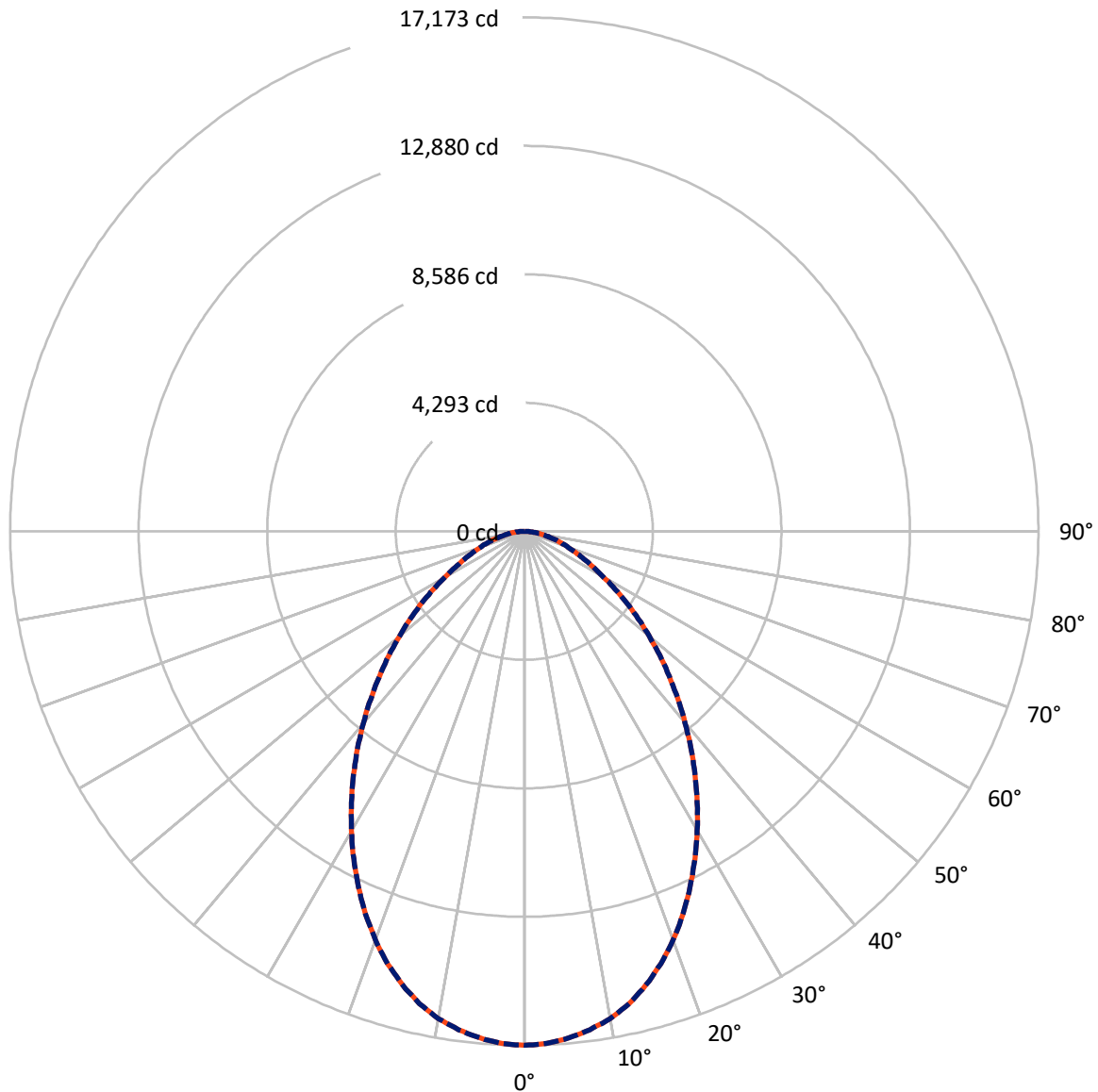
REPORT NUMBER: P623861
CATALOG NUMBER: IFLD-L-SA7B-727-U-77

Lumen Table



REPORT NUMBER: P623861
CATALOG NUMBER: IFLD-L-SA7B-727-U-77

Luminous Intensity Polar Plot

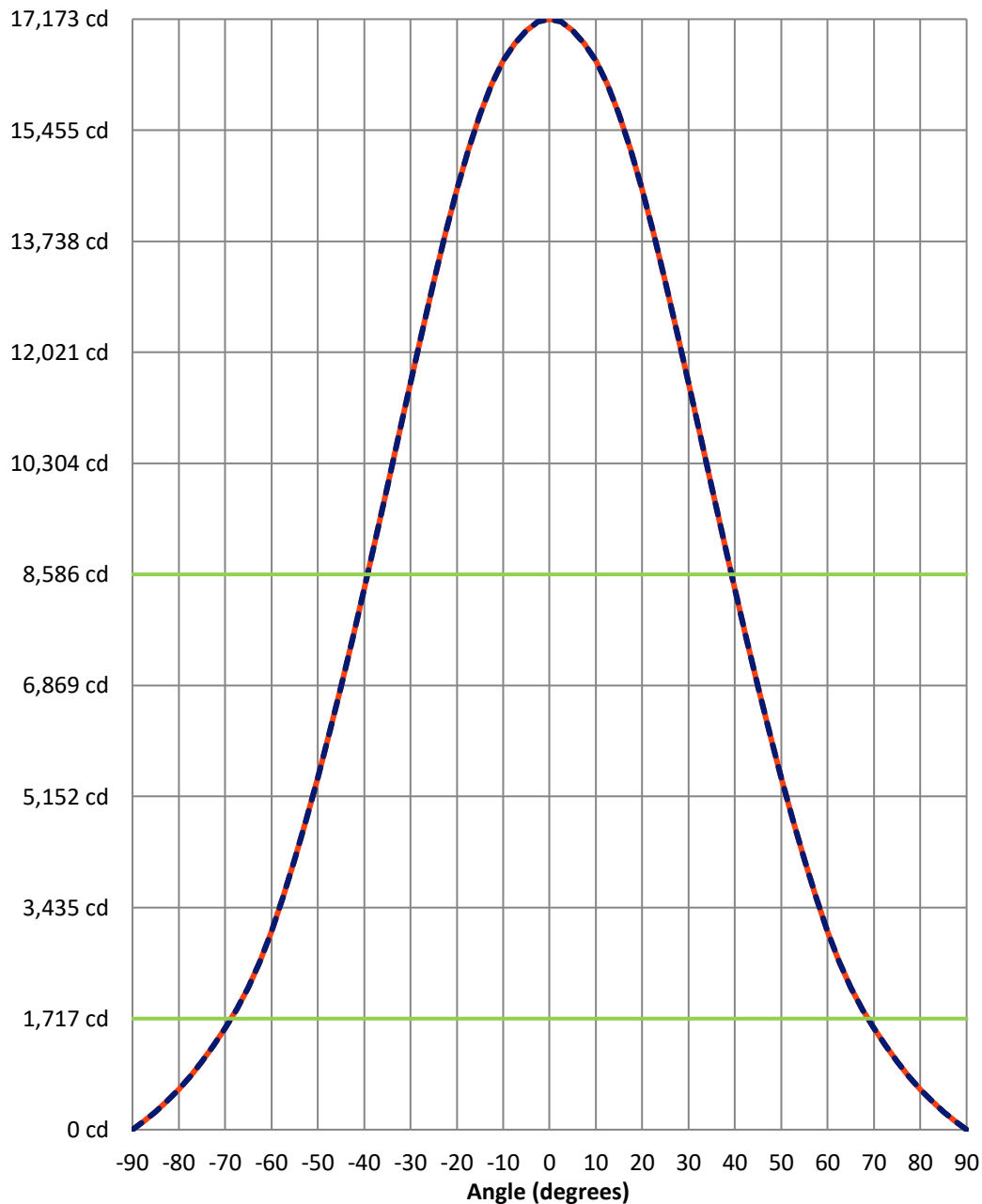


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623861

CATALOG NUMBER: IFLD-L-SA7B-727-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 13378.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 21907.1
Efficiency: 70.9%

Spill:

Lumens: 9012.6
Efficiency: 29.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P623861

CATALOG NUMBER: IFLD-L-SA7B-727-U-77

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°	132.2	132.2	132.2	132.2	132.2	132.2	132.2	125.7	125.7	122.5	119.3
85°	277.2	277.2	277.2	277.2	277.2	270.8	267.6	264.3	261.1	254.7	251.4
82.5°	444.9	444.9	444.9	444.9	438.4	432.0	428.8	422.3	415.9	406.2	396.5
80°	622.2	622.2	622.2	622.2	612.5	606.1	596.4	589.9	580.3	567.4	554.5
77.5°	825.3	825.3	825.3	815.6	809.1	799.5	789.8	776.9	764.0	747.9	728.6
75°	1054.2	1054.2	1054.2	1041.3	1031.6	1021.9	1005.8	989.7	970.3	947.8	922.0
72.5°	1302.4	1302.4	1302.4	1286.3	1276.6	1260.5	1241.1	1218.6	1196.0	1167.0	1134.7
70°	1569.9	1569.9	1569.9	1550.6	1534.5	1518.4	1492.6	1466.8	1434.5	1402.3	1363.6
67.5°	1860.1	1860.1	1860.1	1837.5	1818.2	1795.6	1766.6	1734.4	1695.7	1650.5	1605.4
65°	2198.6	2198.6	2185.7	2166.3	2143.8	2111.5	2076.1	2030.9	1982.6	1924.6	1863.3
62.5°	2598.3	2598.3	2579.0	2556.4	2527.4	2485.5	2437.1	2379.1	2311.4	2237.3	2163.1
60°	3062.5	3062.5	3040.0	3010.9	2969.0	2917.5	2853.0	2778.8	2695.0	2601.5	2511.3
57.5°	3597.7	3597.7	3568.6	3530.0	3478.4	3413.9	3333.3	3239.8	3133.4	3017.4	2904.6
55°	4177.9	4177.9	4142.5	4097.3	4036.1	3958.7	3862.0	3752.4	3623.4	3491.3	3346.2
52.5°	4793.6	4793.6	4751.7	4700.2	4629.2	4539.0	4429.4	4300.4	4152.1	3997.4	3826.5
50°	5441.6	5441.6	5393.3	5335.2	5254.6	5148.3	5022.5	4874.2	4709.8	4529.3	4332.7
47.5°	6134.7	6134.7	6079.9	6012.2	5915.5	5793.0	5644.7	5473.8	5286.9	5083.8	4861.3
45°	6847.1	6847.1	6785.9	6708.5	6602.1	6463.5	6299.1	6134.7	5896.2	5660.8	5402.9
42.5°	7588.6	7588.6	7517.7	7430.6	7308.1	7156.6	6969.6	6756.9	6521.6	6257.2	5976.7
40°	8359.1	8359.1	8278.5	8178.5	8043.1	7869.1	7659.5	7421.0	7156.6	6863.3	6553.8
37.5°	9145.6	9145.6	9055.4	8945.8	8794.3	8600.8	8365.5	8101.2	7804.6	7479.0	7137.3
35°	9938.7	9938.7	9838.7	9719.5	9551.8	9339.1	9084.4	8791.0	8462.2	8107.6	7724.0
32.5°	10747.8	10747.8	10638.2	10502.8	10312.6	10077.3	9796.8	9477.7	9145.6	8733.0	8313.9
30°	11547.3	11547.3	11428.0	11279.7	11076.6	10818.7	10512.5	10161.1	9771.0	9348.7	8897.4
27.5°	12333.9	12301.7	12201.7	12043.8	11821.3	11547.3	11215.3	10834.9	10412.6	9948.3	9464.8
25°	13107.6	13072.1	12962.5	12788.4	12549.9	12250.1	11892.2	11486.1	11031.5	10541.5	10012.8
22.5°	13849.0	13810.3	13694.3	13507.3	13252.6	12927.1	12543.4	12108.2	11624.7	11099.2	10541.5
20°	14535.7	14493.8	14374.5	14177.8	13913.5	13568.6	13162.4	12694.9	12179.2	11624.7	11031.5
17.5°	15154.6	15112.7	14987.0	14783.9	14535.7	14152.1	13733.0	13239.8	12694.9	12108.2	11486.1
15°	15699.4	15654.3	15525.4	15322.3	15038.6	14677.5	14235.9	13733.0	13162.4	12543.4	11892.2
12.5°	16163.6	16118.5	15986.3	15783.3	15489.9	15128.8	14677.5	14152.1	13568.6	12927.1	12250.1
10°	16531.2	16486.0	16360.3	16166.9	15863.8	15489.9	15038.6	14535.7	13913.5	13252.6	12549.9
7.5°	16795.5	16753.6	16637.5	16444.1	16166.9	15783.3	15322.3	14783.9	14177.8	13507.3	12788.4
5°	16995.4	16947.0	16831.0	16637.5	16360.3	15986.3	15525.4	14987.0	14374.5	13694.3	12962.5
2.5°	17134.0	17076.0	16947.0	16753.6	16486.0	16118.5	15654.3	15112.7	14493.8	13810.3	13072.1
0°	17172.7	17134.0	16995.4	16795.5	16531.2	16163.6	15699.4	15154.6	14535.7	13849.0	13107.6

REPORT NUMBER: P623861

CATALOG NUMBER: IFLD-L-SA7B-727-U-77

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°	116.1	116.1	112.8	109.6	106.4	99.9	96.7	93.5	90.3	83.8	80.6
85°	245.0	238.6	232.1	225.7	216.0	209.5	199.9	193.4	183.8	174.1	164.4
82.5°	386.8	377.2	364.3	354.6	341.7	325.6	312.7	296.6	280.5	267.6	251.4
80°	541.6	525.5	509.3	493.2	473.9	454.5	435.2	415.9	393.3	370.7	348.2
77.5°	709.2	686.6	664.1	638.3	615.7	589.9	564.1	538.4	509.3	480.3	451.3
75°	896.2	867.2	834.9	802.7	773.7	738.2	702.8	667.3	628.6	593.2	554.5
72.5°	1099.3	1063.8	1025.1	986.5	944.5	899.4	854.3	805.9	760.8	715.7	667.3
70°	1318.5	1276.6	1228.2	1179.9	1128.3	1073.5	1018.7	960.7	902.6	844.6	786.6
67.5°	1553.8	1502.2	1444.2	1386.2	1321.7	1257.2	1192.8	1125.1	1054.2	983.2	915.5
65°	1805.3	1740.8	1673.1	1599.0	1524.8	1450.7	1373.3	1292.7	1212.1	1128.3	1054.2
62.5°	2085.7	2005.1	1918.1	1827.8	1744.0	1653.8	1569.9	1470.0	1373.3	1279.8	1186.3
60°	2411.3	2304.9	2198.6	2085.7	1979.4	1863.3	1760.1	1650.5	1540.9	1434.5	1324.9
57.5°	2775.6	2640.2	2511.3	2375.9	2234.0	2105.1	1972.9	1840.7	1718.2	1592.5	1473.2
55°	3188.2	3023.8	2862.6	2695.0	2530.6	2369.4	2201.8	2053.5	1902.0	1760.1	1621.5
52.5°	3639.6	3452.6	3252.7	3062.5	2853.0	2653.1	2466.1	2279.2	2101.9	1931.0	1773.0
50°	4123.1	3903.9	3675.0	3442.9	3204.4	2969.0	2743.4	2524.2	2317.8	2118.0	1931.0
47.5°	4626.0	4377.8	4116.7	3852.3	3597.7	3310.7	3040.0	2791.7	2543.5	2317.8	2101.9
45°	5141.8	4861.3	4574.4	4274.6	3974.8	3665.4	3365.5	3062.5	2791.7	2524.2	2279.2
42.5°	5673.7	5357.8	5038.6	4706.6	4374.6	4036.1	3697.6	3365.5	3040.0	2743.4	2466.1
40°	6221.7	5873.6	5509.3	5148.3	4793.6	4406.8	4036.1	3665.4	3310.7	2969.0	2653.1
37.5°	6769.8	6389.4	5996.1	5589.9	5183.7	4793.6	4374.6	3974.8	3597.7	3204.4	2853.0
35°	7321.0	6901.9	6476.4	6034.8	5589.9	5148.3	4706.6	4274.6	3852.3	3442.9	3062.5
32.5°	7875.5	7417.7	6947.1	6476.4	5996.1	5509.3	5038.6	4574.4	4116.7	3675.0	3252.7
30°	8420.3	7923.9	7417.7	6901.9	6389.4	5873.6	5357.8	4861.3	4377.8	3903.9	3452.6
27.5°	8952.2	8420.3	7875.5	7321.0	6769.8	6221.7	5673.7	5141.8	4626.0	4123.1	3639.6
25°	9464.8	8897.4	8313.9	7724.0	7137.3	6553.8	5976.7	5402.9	4861.3	4332.7	3826.5
22.5°	9948.3	9348.7	8733.0	8107.6	7479.0	6863.3	6257.2	5660.8	5083.8	4529.3	3997.4
20°	10412.6	9771.0	9145.6	8462.2	7804.6	7156.6	6521.6	5896.2	5286.9	4709.8	4152.1
17.5°	10834.9	10161.1	9477.7	8791.0	8101.2	7421.0	6756.9	6134.7	5473.8	4874.2	4300.4
15°	11215.3	10512.5	9796.8	9084.4	8365.5	7659.5	6969.6	6299.1	5644.7	5022.5	4429.4
12.5°	11547.3	10818.7	10077.3	9339.1	8600.8	7869.1	7156.6	6463.5	5793.0	5148.3	4539.0
10°	11821.3	11076.6	10312.6	9551.8	8794.3	8043.1	7308.1	6602.1	5915.5	5254.6	4629.2
7.5°	12043.8	11279.7	10502.8	9719.5	8945.8	8178.5	7430.6	6708.5	6012.2	5335.2	4700.2
5°	12201.7	11428.0	10638.2	9838.7	9055.4	8278.5	7517.7	6785.9	6079.9	5393.3	4751.7
2.5°	12301.7	11547.3	10747.8	9938.7	9145.6	8359.1	7588.6	6847.1	6134.7	5441.6	4793.6
0°	12333.9	11547.3	10747.8	9938.7	9145.6	8359.1	7588.6	6847.1	6134.7	5441.6	4793.6

REPORT NUMBER: P623861

CATALOG NUMBER: IFLD-L-SA7B-727-U-77

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°	77.4	70.9	64.5	61.3	54.8	51.6	45.1	38.7	35.5	29.0	22.6
85°	154.7	141.8	132.2	122.5	112.8	99.9	90.3	80.6	67.7	58.0	45.1
82.5°	235.3	219.2	203.1	187.0	170.9	154.7	135.4	119.3	103.2	87.0	67.7
80°	325.6	299.8	277.2	254.7	232.1	209.5	183.8	161.2	135.4	112.8	90.3
77.5°	419.1	390.1	357.8	325.6	293.4	264.3	232.1	203.1	174.1	141.8	112.8
75°	519.0	480.3	444.9	403.0	364.3	322.4	283.7	245.0	209.5	174.1	135.4
72.5°	622.2	573.8	525.5	480.3	432.0	383.6	338.5	290.1	245.0	203.1	161.2
70°	728.6	670.5	612.5	557.7	502.9	444.9	393.3	338.5	283.7	232.1	183.8
67.5°	841.4	773.7	706.0	635.1	573.8	509.3	444.9	383.6	322.4	264.3	209.5
65°	963.9	883.3	799.5	725.3	644.7	573.8	502.9	432.0	364.3	293.4	232.1
62.5°	1089.6	996.1	902.6	809.1	725.3	635.1	557.7	480.3	403.0	325.6	254.7
60°	1218.6	1112.2	1005.8	902.6	799.5	706.0	612.5	525.5	444.9	357.8	277.2
57.5°	1350.7	1231.5	1112.2	996.1	883.3	773.7	670.5	573.8	480.3	390.1	299.8
55°	1486.1	1350.7	1218.6	1089.6	963.9	841.4	728.6	622.2	519.0	419.1	325.6
52.5°	1621.5	1473.2	1324.9	1186.3	1054.2	915.5	786.6	667.3	554.5	451.3	348.2
50°	1760.1	1592.5	1434.5	1279.8	1128.3	983.2	844.6	715.7	593.2	480.3	370.7
47.5°	1902.0	1718.2	1540.9	1373.3	1212.1	1054.2	902.6	760.8	628.6	509.3	393.3
45°	2053.5	1840.7	1650.5	1470.0	1292.7	1125.1	960.7	805.9	667.3	538.4	415.9
42.5°	2201.8	1972.9	1760.1	1569.9	1373.3	1192.8	1018.7	854.3	702.8	564.1	435.2
40°	2369.4	2105.1	1863.3	1653.8	1450.7	1257.2	1073.5	899.4	738.2	589.9	454.5
37.5°	2530.6	2234.0	1979.4	1744.0	1524.8	1321.7	1128.3	944.5	773.7	615.7	473.9
35°	2695.0	2375.9	2085.7	1827.8	1599.0	1386.2	1179.9	986.5	802.7	638.3	493.2
32.5°	2862.6	2511.3	2198.6	1918.1	1673.1	1444.2	1228.2	1025.1	834.9	664.1	509.3
30°	3023.8	2640.2	2304.9	2005.1	1740.8	1502.2	1276.6	1063.8	867.2	686.6	525.5
27.5°	3188.2	2775.6	2411.3	2085.7	1805.3	1553.8	1318.5	1099.3	896.2	709.2	541.6
25°	3346.2	2904.6	2511.3	2163.1	1863.3	1605.4	1363.6	1134.7	922.0	728.6	554.5
22.5°	3491.3	3017.4	2601.5	2237.3	1924.6	1650.5	1402.3	1167.0	947.8	747.9	567.4
20°	3623.4	3133.4	2695.0	2311.4	1982.6	1695.7	1434.5	1196.0	970.3	764.0	580.3
17.5°	3752.4	3239.8	2778.8	2379.1	2030.9	1734.4	1466.8	1218.6	989.7	776.9	589.9
15°	3862.0	3333.3	2853.0	2437.1	2076.1	1766.6	1492.6	1241.1	1005.8	789.8	596.4
12.5°	3958.7	3413.9	2917.5	2485.5	2111.5	1795.6	1518.4	1260.5	1021.9	799.5	606.1
10°	4036.1	3478.4	2969.0	2527.4	2143.8	1818.2	1534.5	1276.6	1031.6	809.1	612.5
7.5°	4097.3	3530.0	3010.9	2556.4	2166.3	1837.5	1550.6	1286.3	1041.3	815.6	622.2
5°	4142.5	3568.6	3040.0	2579.0	2185.7	1860.1	1569.9	1302.4	1054.2	825.3	622.2
2.5°	4177.9	3597.7	3062.5	2598.3	2198.6	1860.1	1569.9	1302.4	1054.2	825.3	622.2
0°	4177.9	3597.7	3062.5	2598.3	2198.6	1860.1	1569.9	1302.4	1054.2	825.3	622.2

REPORT NUMBER: P623861

CATALOG NUMBER: IFLD-L-SA7B-727-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	16.1	12.9	6.4	0.0
85°	35.5	22.6	12.9	0.0
82.5°	51.6	35.5	16.1	0.0
80°	67.7	45.1	22.6	0.0
77.5°	87.0	58.0	29.0	0.0
75°	103.2	67.7	35.5	0.0
72.5°	119.3	80.6	38.7	0.0
70°	135.4	90.3	45.1	0.0
67.5°	154.7	99.9	51.6	0.0
65°	170.9	112.8	54.8	0.0
62.5°	187.0	122.5	61.3	0.0
60°	203.1	132.2	64.5	0.0
57.5°	219.2	141.8	70.9	0.0
55°	235.3	154.7	77.4	0.0
52.5°	251.4	164.4	80.6	0.0
50°	267.6	174.1	83.8	0.0
47.5°	280.5	183.8	90.3	0.0
45°	296.6	193.4	93.5	0.0
42.5°	312.7	199.9	96.7	0.0
40°	325.6	209.5	99.9	0.0
37.5°	341.7	216.0	106.4	0.0
35°	354.6	225.7	109.6	0.0
32.5°	364.3	232.1	112.8	0.0
30°	377.2	238.6	116.1	0.0
27.5°	386.8	245.0	116.1	0.0
25°	396.5	251.4	119.3	0.0
22.5°	406.2	254.7	122.5	0.0
20°	415.9	261.1	125.7	0.0
17.5°	422.3	264.3	125.7	0.0
15°	428.8	267.6	132.2	0.0
12.5°	432.0	270.8	132.2	0.0
10°	438.4	277.2	132.2	0.0
7.5°	444.9	277.2	132.2	0.0
5°	444.9	277.2	132.2	0.0
2.5°	444.9	277.2	132.2	0.0
0°	444.9	277.2	132.2	0.0

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