

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: P623841

Luminaire Tested: **IFLD-S-SA2B-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623841
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

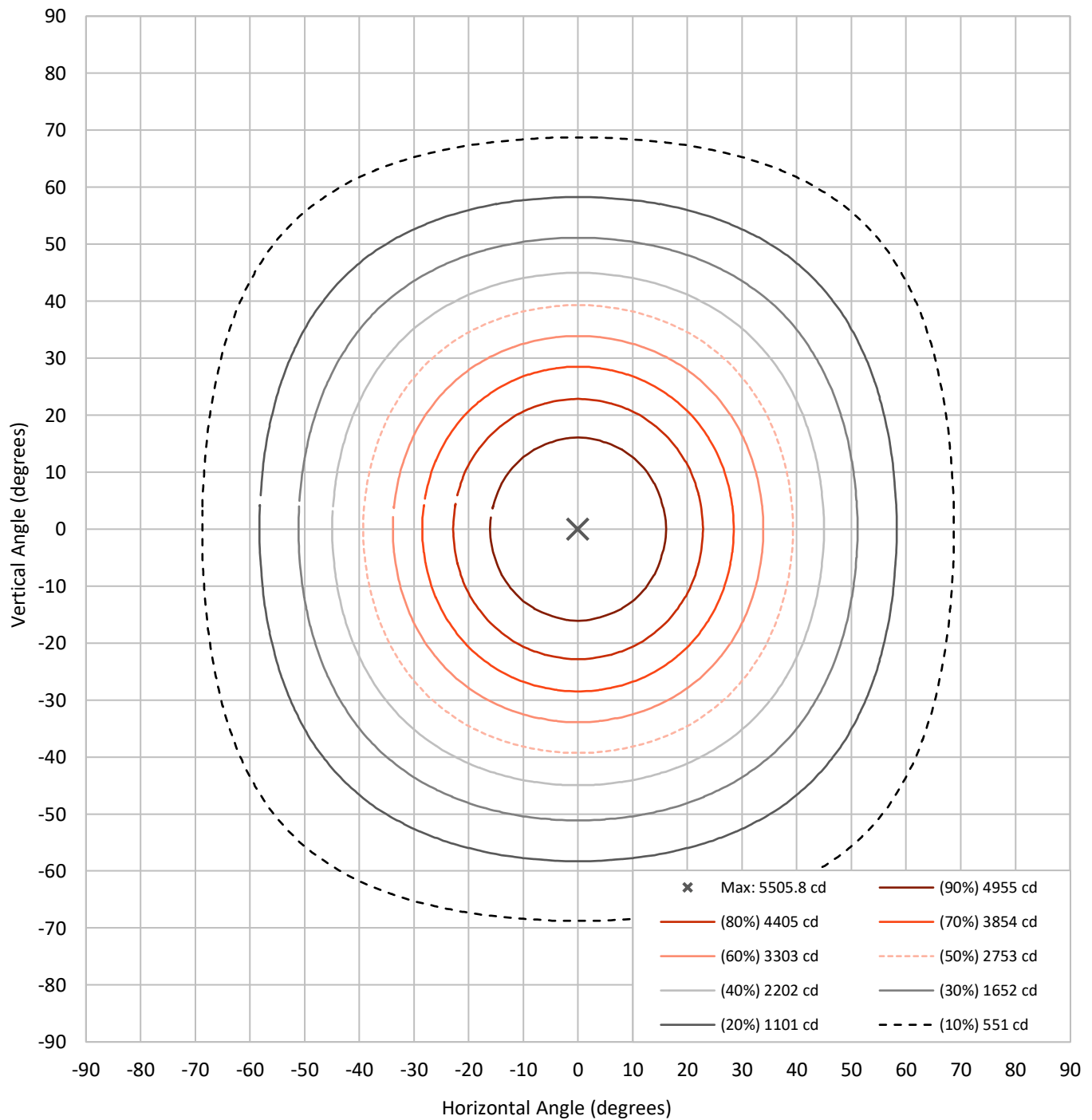
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9913.3 lumens	Max Intensity:	5505.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	4289.4 lumens	Field Lumens:	7023.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	82.4		
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: P623841

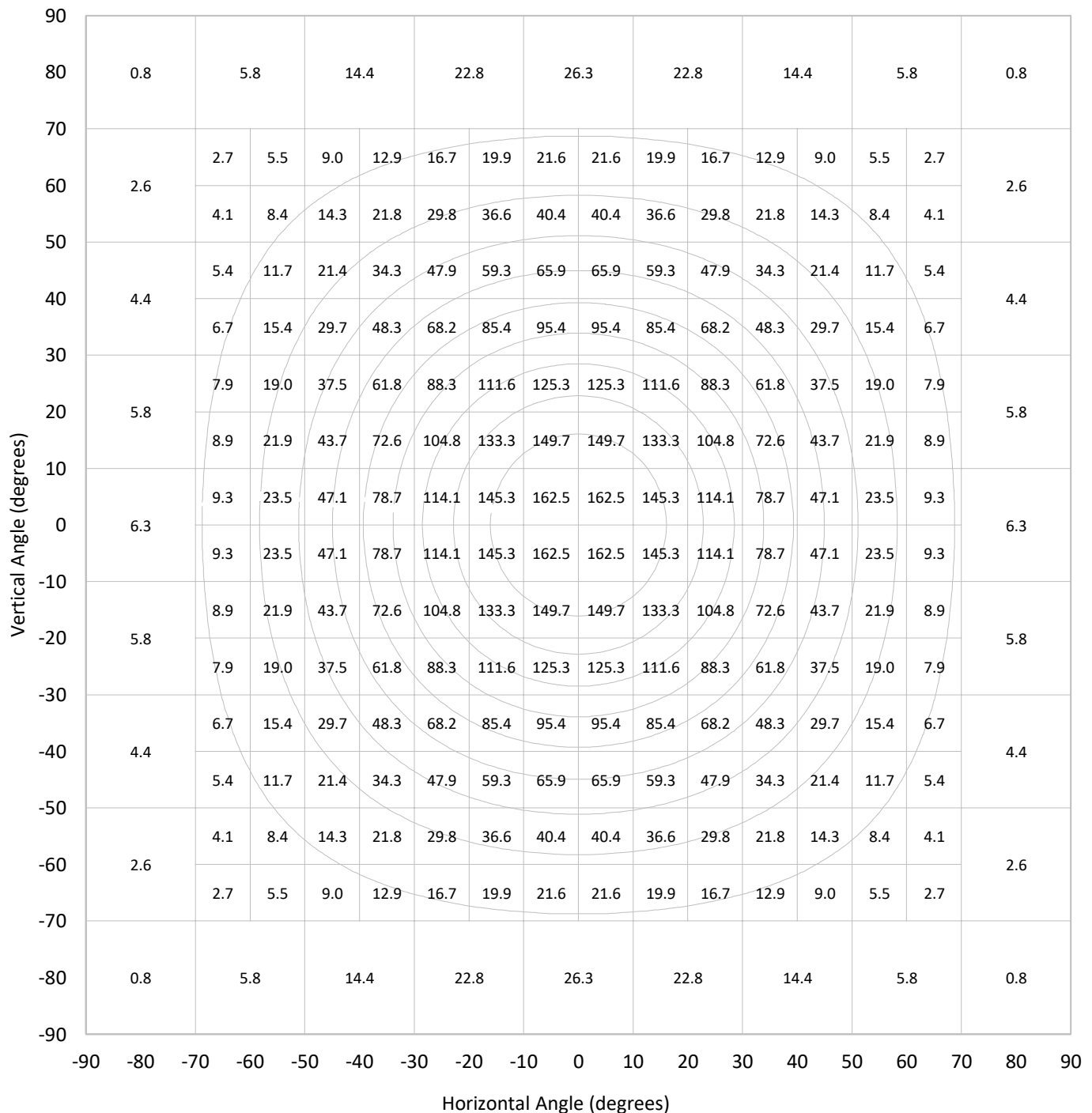
CATALOG NUMBER: IFLD-S-SA2B-727-U-77

Iso-Candela Plot



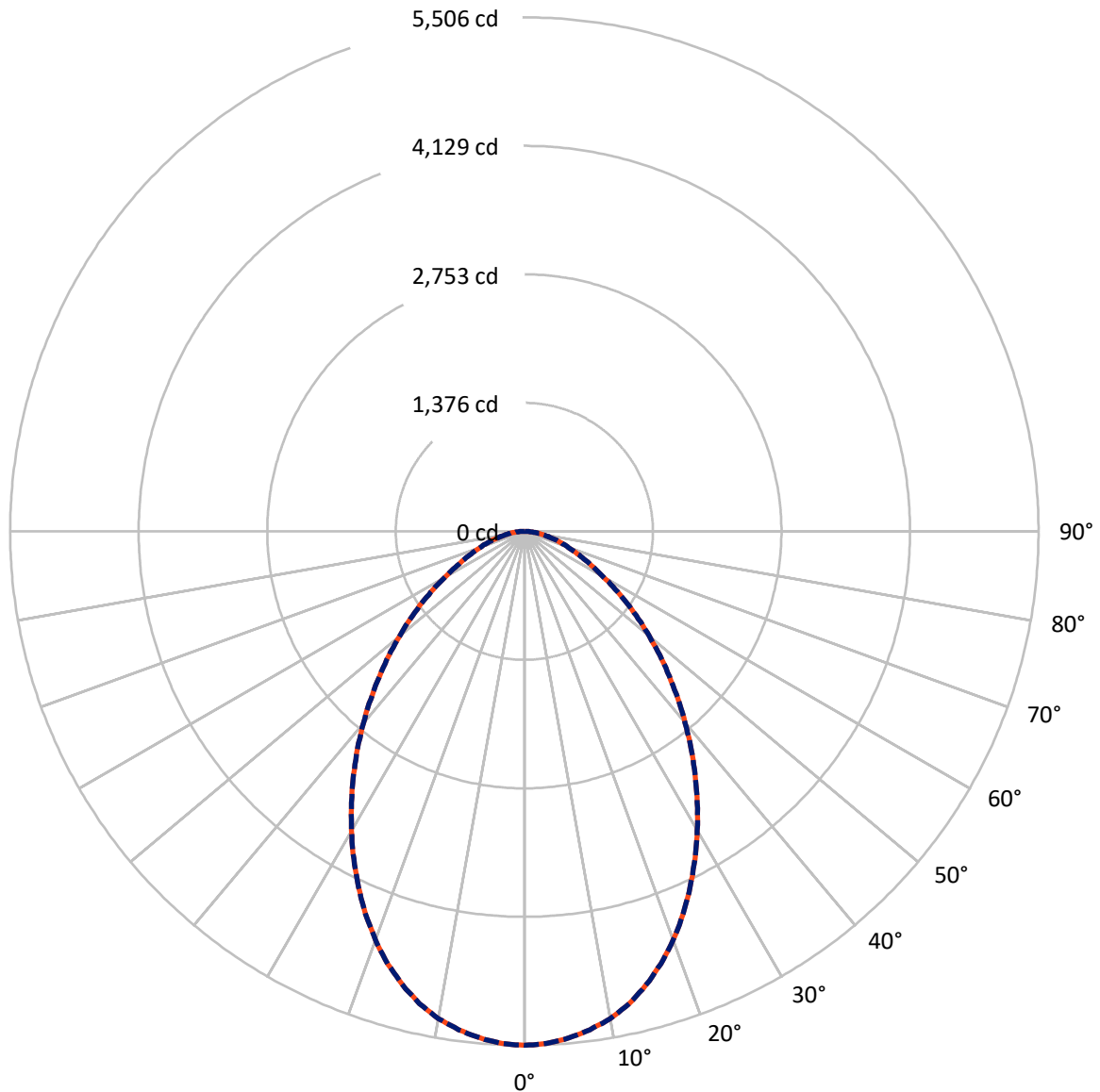
REPORT NUMBER: P623841
CATALOG NUMBER: IFLD-S-SA2B-727-U-77

Lumen Table



REPORT NUMBER: P623841
CATALOG NUMBER: IFLD-S-SA2B-727-U-77

Luminous Intensity Polar Plot

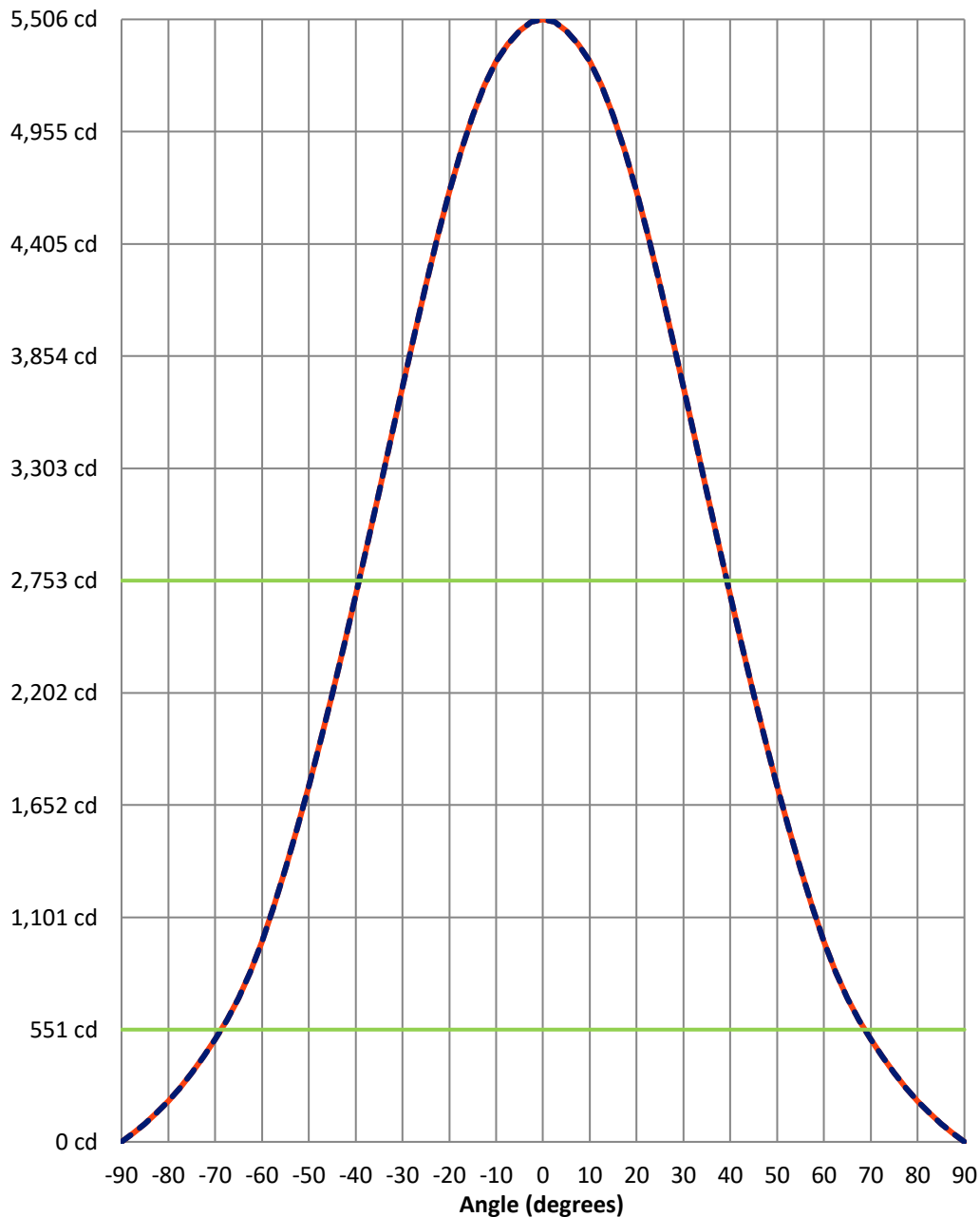


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623841

CATALOG NUMBER: IFLD-S-SA2B-727-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 4289.4
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 7023.8
Efficiency: 70.9%

Spill:

Lumens: 2889.6
Efficiency: 29.1%

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

REPORT NUMBER: P623841

CATALOG NUMBER: IFLD-S-SA2B-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°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	40.3	40.3	39.3	38.2
85°	88.9	88.9	88.9	88.9	88.9	86.8	85.8	84.8	83.7	81.7	80.6
82.5°	142.6	142.6	142.6	142.6	140.6	138.5	137.5	135.4	133.3	130.2	127.1
80°	199.5	199.5	199.5	199.5	196.4	194.3	191.2	189.1	186.0	181.9	177.8
77.5°	264.6	264.6	264.6	261.5	259.4	256.3	253.2	249.1	245.0	239.8	233.6
75°	338.0	338.0	338.0	333.8	330.7	327.6	322.5	317.3	311.1	303.9	295.6
72.5°	417.6	417.6	417.6	412.4	409.3	404.1	397.9	390.7	383.5	374.2	363.8
70°	503.3	503.3	503.3	497.1	492.0	486.8	478.5	470.3	459.9	449.6	437.2
67.5°	596.4	596.4	596.4	589.1	582.9	575.7	566.4	556.1	543.7	529.2	514.7
65°	704.9	704.9	700.8	694.6	687.3	677.0	665.6	651.1	635.6	617.0	597.4
62.5°	833.1	833.1	826.9	819.6	810.3	796.9	781.4	762.8	741.1	717.3	693.5
60°	981.9	981.9	974.7	965.4	951.9	935.4	914.7	890.9	864.1	834.1	805.1
57.5°	1153.5	1153.5	1144.2	1131.8	1115.2	1094.5	1068.7	1038.7	1004.6	967.4	931.2
55°	1339.5	1339.5	1328.1	1313.7	1294.0	1269.2	1238.2	1203.1	1161.7	1119.4	1072.8
52.5°	1536.9	1536.9	1523.5	1506.9	1484.2	1455.3	1420.1	1378.8	1331.2	1281.6	1226.8
50°	1744.7	1744.7	1729.2	1710.6	1684.7	1650.6	1610.3	1562.8	1510.0	1452.2	1389.1
47.5°	1966.9	1966.9	1949.3	1927.6	1896.6	1857.3	1809.8	1755.0	1695.1	1629.9	1558.6
45°	2195.3	2195.3	2175.7	2150.9	2116.7	2072.3	2019.6	1966.9	1890.4	1814.9	1732.3
42.5°	2433.0	2433.0	2410.3	2382.4	2343.1	2294.5	2234.6	2166.4	2090.9	2006.2	1916.2
40°	2680.0	2680.0	2654.2	2622.2	2578.8	2522.9	2455.8	2379.3	2294.5	2200.5	2101.2
37.5°	2932.2	2932.2	2903.3	2868.2	2819.6	2757.6	2682.1	2597.4	2502.3	2397.9	2288.3
35°	3186.5	3186.5	3154.4	3116.2	3062.5	2994.2	2912.6	2818.5	2713.1	2599.4	2476.4
32.5°	3445.9	3445.9	3410.8	3367.4	3306.4	3230.9	3141.0	3038.7	2932.2	2799.9	2665.6
30°	3702.2	3702.2	3664.0	3616.5	3551.3	3468.7	3370.5	3257.8	3132.7	2997.3	2852.6
27.5°	3954.4	3944.1	3912.1	3861.4	3790.1	3702.2	3595.8	3473.8	3338.4	3189.6	3034.6
25°	4202.5	4191.1	4156.0	4100.2	4023.7	3927.6	3812.8	3682.6	3536.9	3379.8	3210.3
22.5°	4440.2	4427.8	4390.6	4330.6	4249.0	4144.6	4021.6	3882.1	3727.0	3558.6	3379.8
20°	4660.4	4646.9	4608.7	4545.6	4460.9	4350.3	4220.1	4070.2	3904.8	3727.0	3536.9
17.5°	4858.8	4845.4	4805.1	4739.9	4660.4	4537.4	4403.0	4244.9	4070.2	3882.1	3682.6
15°	5033.5	5019.0	4977.7	4912.5	4821.6	4705.8	4564.2	4403.0	4220.1	4021.6	3812.8
12.5°	5182.3	5167.8	5125.5	5060.3	4966.3	4850.5	4705.8	4537.4	4350.3	4144.6	3927.6
10°	5300.1	5285.7	5245.4	5183.3	5086.2	4966.3	4821.6	4660.4	4460.9	4249.0	4023.7
7.5°	5384.9	5371.5	5334.2	5272.2	5183.3	5060.3	4912.5	4739.9	4545.6	4330.6	4100.2
5°	5449.0	5433.5	5396.3	5334.2	5245.4	5125.5	4977.7	4805.1	4608.7	4390.6	4156.0
2.5°	5493.4	5474.8	5433.5	5371.5	5285.7	5167.8	5019.0	4845.4	4646.9	4427.8	4191.1
0°	5505.8	5493.4	5449.0	5384.9	5300.1	5182.3	5033.5	4858.8	4660.4	4440.2	4202.5

REPORT NUMBER: P623841

CATALOG NUMBER: IFLD-S-SA2B-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°	37.2	37.2	36.2	35.1	34.1	32.0	31.0	30.0	28.9	26.9	25.8
85°	78.6	76.5	74.4	72.3	69.2	67.2	64.1	62.0	58.9	55.8	52.7
82.5°	124.0	120.9	116.8	113.7	109.6	104.4	100.3	95.1	89.9	85.8	80.6
80°	173.6	168.5	163.3	158.1	151.9	145.7	139.5	133.3	126.1	118.9	111.6
77.5°	227.4	220.1	212.9	204.6	197.4	189.1	180.9	172.6	163.3	154.0	144.7
75°	287.3	278.0	267.7	257.4	248.1	236.7	225.3	213.9	201.5	190.2	177.8
72.5°	352.4	341.1	328.7	316.3	302.8	288.4	273.9	258.4	243.9	229.5	213.9
70°	422.7	409.3	393.8	378.3	361.7	344.2	326.6	308.0	289.4	270.8	252.2
67.5°	498.2	481.6	463.0	444.4	423.8	403.1	382.4	360.7	338.0	315.2	293.5
65°	578.8	558.1	536.4	512.6	488.9	465.1	440.3	414.5	388.6	361.7	338.0
62.5°	668.7	642.9	615.0	586.0	559.2	530.2	503.3	471.3	440.3	410.3	380.4
60°	773.1	739.0	704.9	668.7	634.6	597.4	564.3	529.2	494.0	459.9	424.8
57.5°	889.9	846.5	805.1	761.7	716.3	674.9	632.5	590.2	550.9	510.6	472.3
55°	1022.2	969.5	917.8	864.1	811.4	759.7	705.9	658.4	609.8	564.3	519.9
52.5°	1166.9	1107.0	1042.9	981.9	914.7	850.6	790.7	730.7	673.9	619.1	568.5
50°	1321.9	1251.7	1178.3	1103.9	1027.4	951.9	879.6	809.3	743.1	679.1	619.1
47.5°	1483.2	1403.6	1319.9	1235.1	1153.5	1061.5	974.7	895.1	815.5	743.1	673.9
45°	1648.5	1558.6	1466.6	1370.5	1274.4	1175.2	1079.0	981.9	895.1	809.3	730.7
42.5°	1819.1	1717.8	1615.5	1509.0	1402.6	1294.0	1185.5	1079.0	974.7	879.6	790.7
40°	1994.8	1883.2	1766.4	1650.6	1536.9	1412.9	1294.0	1175.2	1061.5	951.9	850.6
37.5°	2170.5	2048.5	1922.4	1792.2	1662.0	1536.9	1402.6	1274.4	1153.5	1027.4	914.7
35°	2347.2	2212.9	2076.4	1934.8	1792.2	1650.6	1509.0	1370.5	1235.1	1103.9	981.9
32.5°	2525.0	2378.2	2227.3	2076.4	1922.4	1766.4	1615.5	1466.6	1319.9	1178.3	1042.9
30°	2699.7	2540.5	2378.2	2212.9	2048.5	1883.2	1717.8	1558.6	1403.6	1251.7	1107.0
27.5°	2870.2	2699.7	2525.0	2347.2	2170.5	1994.8	1819.1	1648.5	1483.2	1321.9	1166.9
25°	3034.6	2852.6	2665.6	2476.4	2288.3	2101.2	1916.2	1732.3	1558.6	1389.1	1226.8
22.5°	3189.6	2997.3	2799.9	2599.4	2397.9	2200.5	2006.2	1814.9	1629.9	1452.2	1281.6
20°	3338.4	3132.7	2932.2	2713.1	2502.3	2294.5	2090.9	1890.4	1695.1	1510.0	1331.2
17.5°	3473.8	3257.8	3038.7	2818.5	2597.4	2379.3	2166.4	1966.9	1755.0	1562.8	1378.8
15°	3595.8	3370.5	3141.0	2912.6	2682.1	2455.8	2234.6	2019.6	1809.8	1610.3	1420.1
12.5°	3702.2	3468.7	3230.9	2994.2	2757.6	2522.9	2294.5	2072.3	1857.3	1650.6	1455.3
10°	3790.1	3551.3	3306.4	3062.5	2819.6	2578.8	2343.1	2116.7	1896.6	1684.7	1484.2
7.5°	3861.4	3616.5	3367.4	3116.2	2868.2	2622.2	2382.4	2150.9	1927.6	1710.6	1506.9
5°	3912.1	3664.0	3410.8	3154.4	2903.3	2654.2	2410.3	2175.7	1949.3	1729.2	1523.5
2.5°	3944.1	3702.2	3445.9	3186.5	2932.2	2680.0	2433.0	2195.3	1966.9	1744.7	1536.9
0°	3954.4	3702.2	3445.9	3186.5	2932.2	2680.0	2433.0	2195.3	1966.9	1744.7	1536.9

REPORT NUMBER: P623841

CATALOG NUMBER: IFLD-S-SA2B-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°	24.8	22.7	20.7	19.6	17.6	16.5	14.5	12.4	11.4	9.3	7.2
85°	49.6	45.5	42.4	39.3	36.2	32.0	28.9	25.8	21.7	18.6	14.5
82.5°	75.5	70.3	65.1	59.9	54.8	49.6	43.4	38.2	33.1	27.9	21.7
80°	104.4	96.1	88.9	81.7	74.4	67.2	58.9	51.7	43.4	36.2	28.9
77.5°	134.4	125.1	114.7	104.4	94.1	84.8	74.4	65.1	55.8	45.5	36.2
75°	166.4	154.0	142.6	129.2	116.8	103.4	91.0	78.6	67.2	55.8	43.4
72.5°	199.5	184.0	168.5	154.0	138.5	123.0	108.5	93.0	78.6	65.1	51.7
70°	233.6	215.0	196.4	178.8	161.2	142.6	126.1	108.5	91.0	74.4	58.9
67.5°	269.8	248.1	226.4	203.6	184.0	163.3	142.6	123.0	103.4	84.8	67.2
65°	309.0	283.2	256.3	232.6	206.7	184.0	161.2	138.5	116.8	94.1	74.4
62.5°	349.3	319.4	289.4	259.4	232.6	203.6	178.8	154.0	129.2	104.4	81.7
60°	390.7	356.6	322.5	289.4	256.3	226.4	196.4	168.5	142.6	114.7	88.9
57.5°	433.1	394.8	356.6	319.4	283.2	248.1	215.0	184.0	154.0	125.1	96.1
55°	476.5	433.1	390.7	349.3	309.0	269.8	233.6	199.5	166.4	134.4	104.4
52.5°	519.9	472.3	424.8	380.4	338.0	293.5	252.2	213.9	177.8	144.7	111.6
50°	564.3	510.6	459.9	410.3	361.7	315.2	270.8	229.5	190.2	154.0	118.9
47.5°	609.8	550.9	494.0	440.3	388.6	338.0	289.4	243.9	201.5	163.3	126.1
45°	658.4	590.2	529.2	471.3	414.5	360.7	308.0	258.4	213.9	172.6	133.3
42.5°	705.9	632.5	564.3	503.3	440.3	382.4	326.6	273.9	225.3	180.9	139.5
40°	759.7	674.9	597.4	530.2	465.1	403.1	344.2	288.4	236.7	189.1	145.7
37.5°	811.4	716.3	634.6	559.2	488.9	423.8	361.7	302.8	248.1	197.4	151.9
35°	864.1	761.7	668.7	586.0	512.6	444.4	378.3	316.3	257.4	204.6	158.1
32.5°	917.8	805.1	704.9	615.0	536.4	463.0	393.8	328.7	267.7	212.9	163.3
30°	969.5	846.5	739.0	642.9	558.1	481.6	409.3	341.1	278.0	220.1	168.5
27.5°	1022.2	889.9	773.1	668.7	578.8	498.2	422.7	352.4	287.3	227.4	173.6
25°	1072.8	931.2	805.1	693.5	597.4	514.7	437.2	363.8	295.6	233.6	177.8
22.5°	1119.4	967.4	834.1	717.3	617.0	529.2	449.6	374.2	303.9	239.8	181.9
20°	1161.7	1004.6	864.1	741.1	635.6	543.7	459.9	383.5	311.1	245.0	186.0
17.5°	1203.1	1038.7	890.9	762.8	651.1	556.1	470.3	390.7	317.3	249.1	189.1
15°	1238.2	1068.7	914.7	781.4	665.6	566.4	478.5	397.9	322.5	253.2	191.2
12.5°	1269.2	1094.5	935.4	796.9	677.0	575.7	486.8	404.1	327.6	256.3	194.3
10°	1294.0	1115.2	951.9	810.3	687.3	582.9	492.0	409.3	330.7	259.4	196.4
7.5°	1313.7	1131.8	965.4	819.6	694.6	589.1	497.1	412.4	333.8	261.5	199.5
5°	1328.1	1144.2	974.7	826.9	700.8	596.4	503.3	417.6	338.0	264.6	199.5
2.5°	1339.5	1153.5	981.9	833.1	704.9	596.4	503.3	417.6	338.0	264.6	199.5
0°	1339.5	1153.5	981.9	833.1	704.9	596.4	503.3	417.6	338.0	264.6	199.5

REPORT NUMBER: P623841

CATALOG NUMBER: IFLD-S-SA2B-727-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.2	4.1	2.1	0.0
85°	11.4	7.2	4.1	0.0
82.5°	16.5	11.4	5.2	0.0
80°	21.7	14.5	7.2	0.0
77.5°	27.9	18.6	9.3	0.0
75°	33.1	21.7	11.4	0.0
72.5°	38.2	25.8	12.4	0.0
70°	43.4	28.9	14.5	0.0
67.5°	49.6	32.0	16.5	0.0
65°	54.8	36.2	17.6	0.0
62.5°	59.9	39.3	19.6	0.0
60°	65.1	42.4	20.7	0.0
57.5°	70.3	45.5	22.7	0.0
55°	75.5	49.6	24.8	0.0
52.5°	80.6	52.7	25.8	0.0
50°	85.8	55.8	26.9	0.0
47.5°	89.9	58.9	28.9	0.0
45°	95.1	62.0	30.0	0.0
42.5°	100.3	64.1	31.0	0.0
40°	104.4	67.2	32.0	0.0
37.5°	109.6	69.2	34.1	0.0
35°	113.7	72.3	35.1	0.0
32.5°	116.8	74.4	36.2	0.0
30°	120.9	76.5	37.2	0.0
27.5°	124.0	78.6	37.2	0.0
25°	127.1	80.6	38.2	0.0
22.5°	130.2	81.7	39.3	0.0
20°	133.3	83.7	40.3	0.0
17.5°	135.4	84.8	40.3	0.0
15°	137.5	85.8	42.4	0.0
12.5°	138.5	86.8	42.4	0.0
10°	140.6	88.9	42.4	0.0
7.5°	142.6	88.9	42.4	0.0
5°	142.6	88.9	42.4	0.0
2.5°	142.6	88.9	42.4	0.0
0°	142.6	88.9	42.4	0.0

(END OF REPORT)