

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: P623846

Luminaire Tested: **IFLD-S-SA3B-727-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623846
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

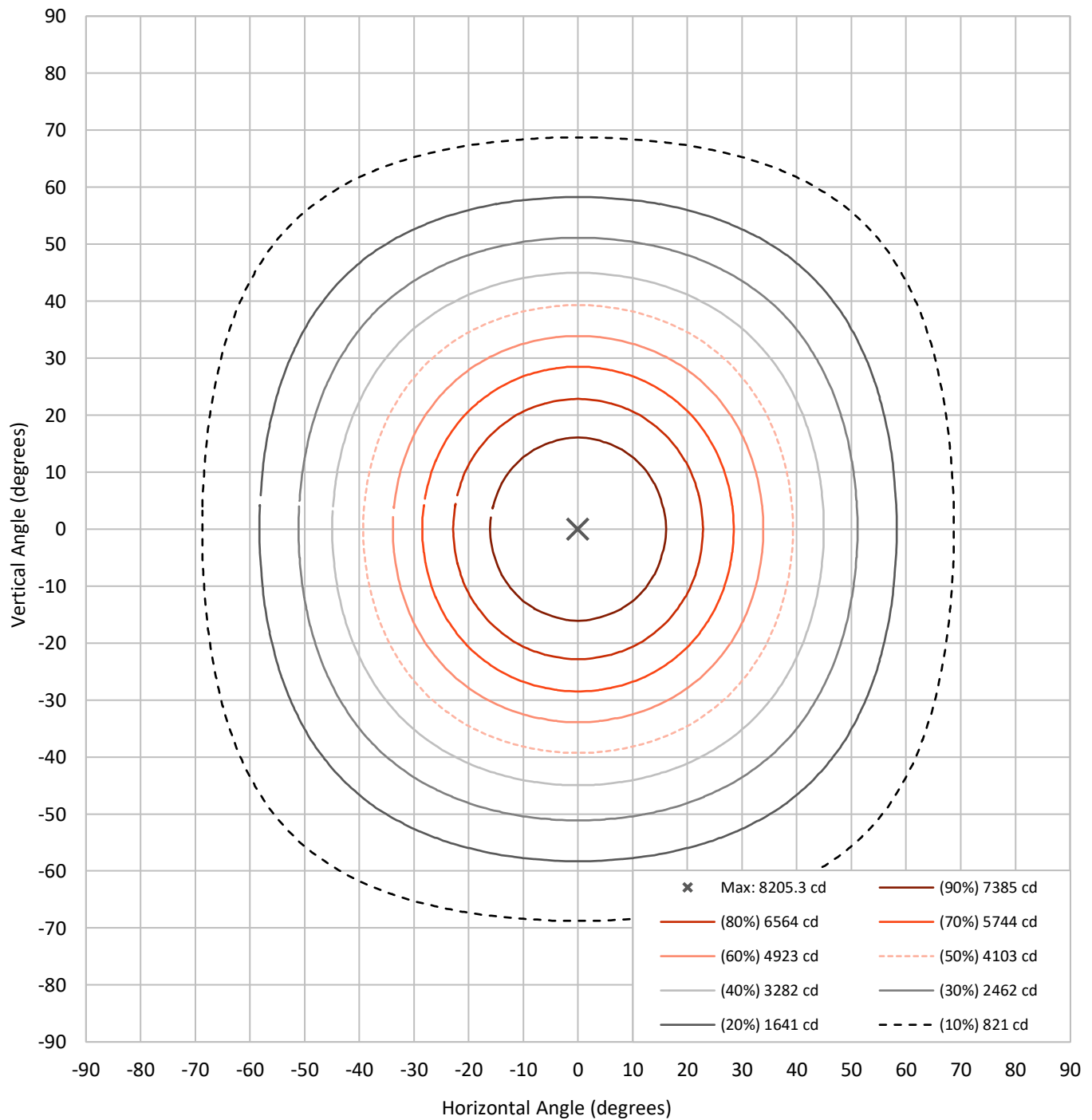
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	14773.8 lumens	Max Intensity:	8205.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	120.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	6392.5 lumens	Field Lumens:	10467.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	122.4		
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: P623846

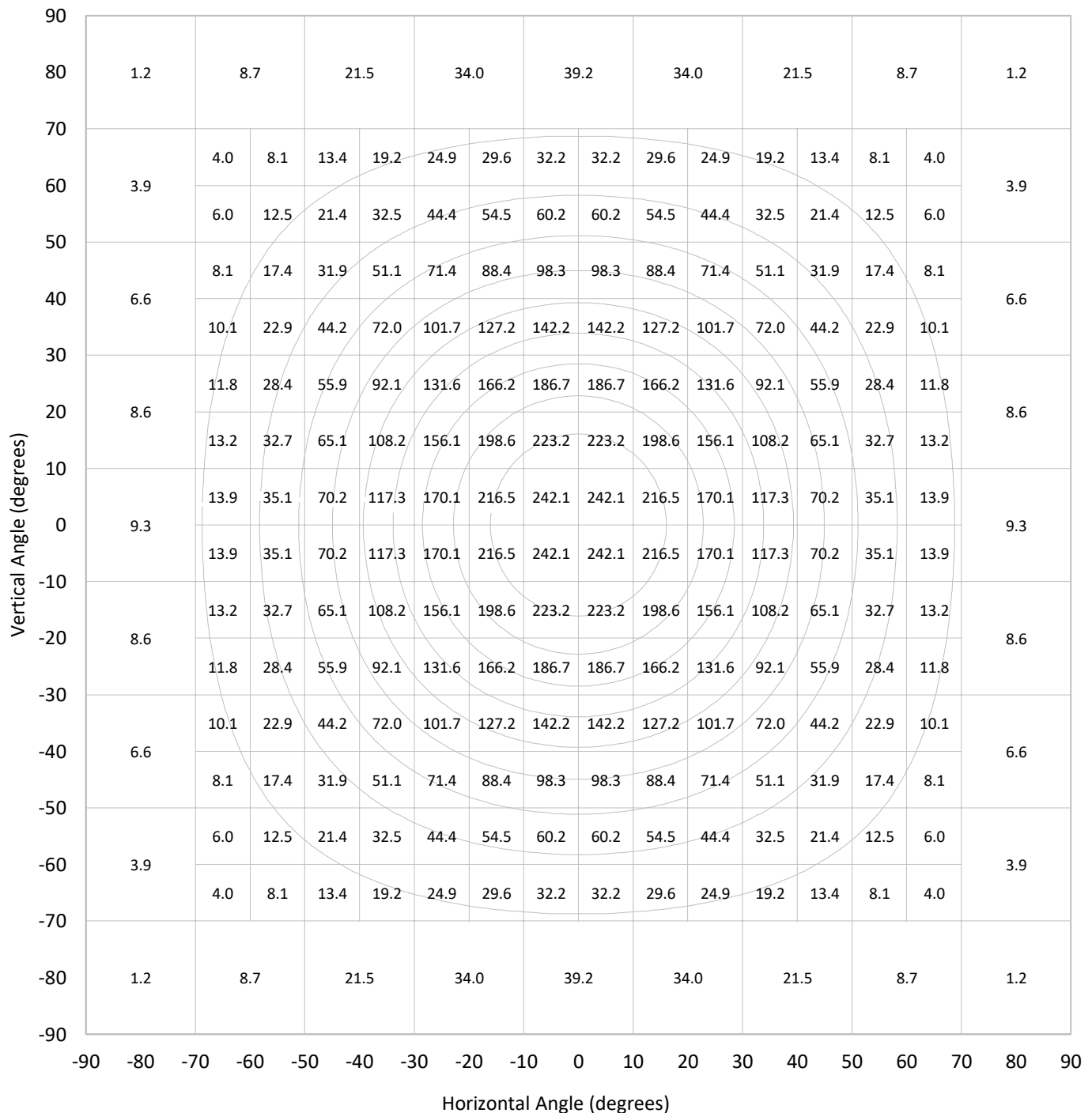
CATALOG NUMBER: IFLD-S-SA3B-727-U-77

Iso-Candela Plot



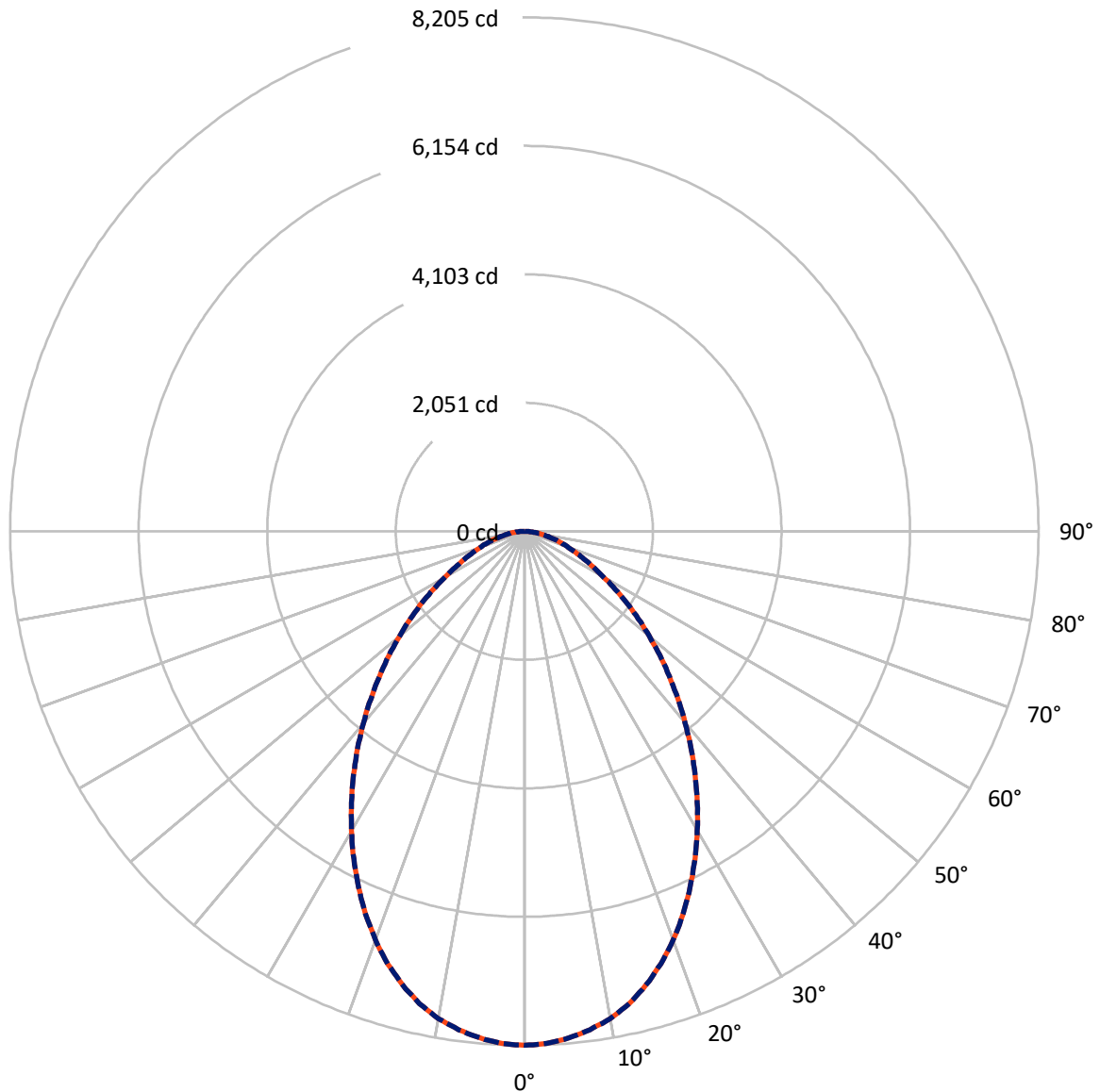
REPORT NUMBER: P623846
CATALOG NUMBER: IFLD-S-SA3B-727-U-77

Lumen Table



REPORT NUMBER: P623846
CATALOG NUMBER: IFLD-S-SA3B-727-U-77

Luminous Intensity Polar Plot

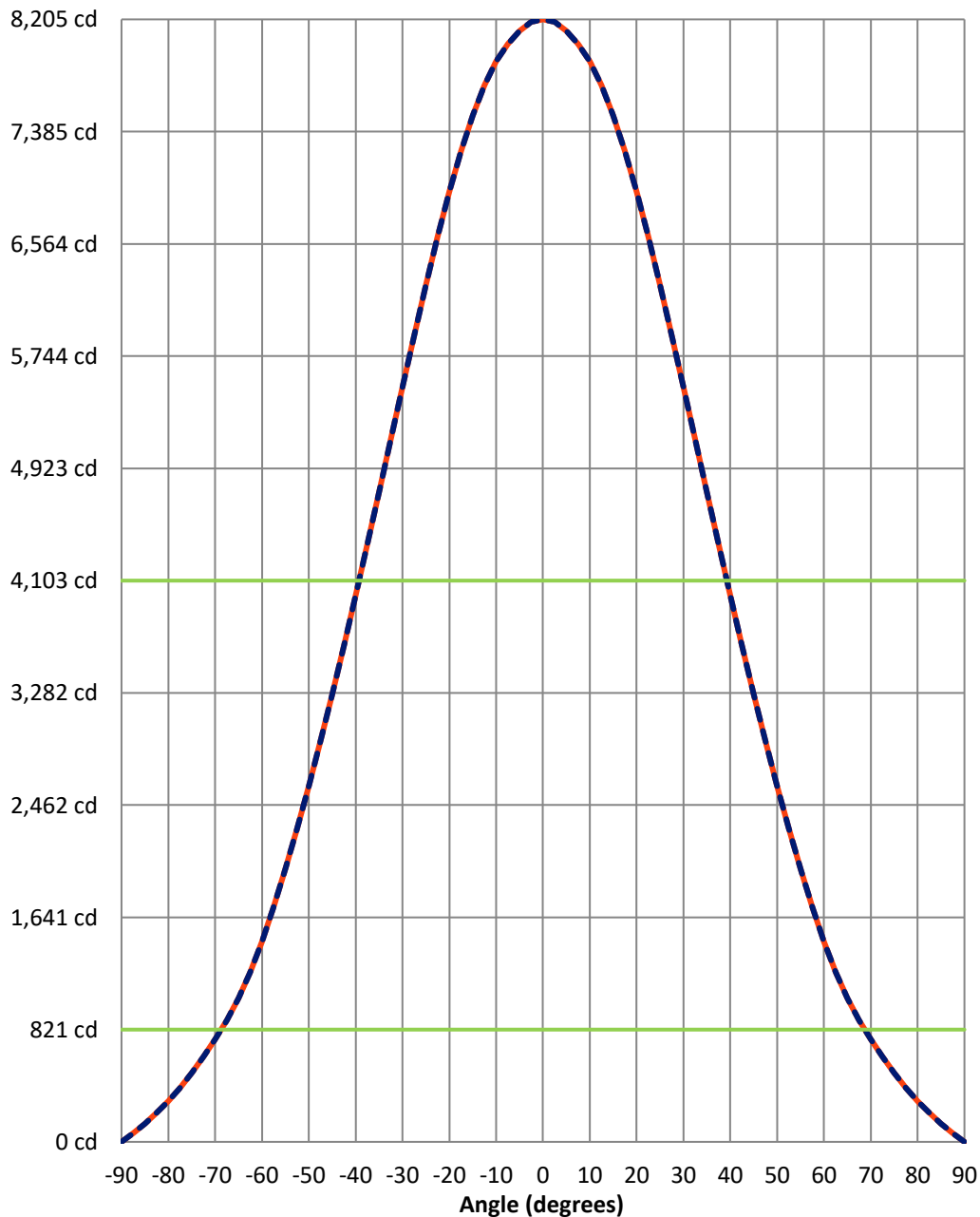


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623846

CATALOG NUMBER: IFLD-S-SA3B-727-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 6392.5
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 10467.5
Efficiency: 70.9%

Spill:

Lumens: 4306.4
Efficiency: 29.1%

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

REPORT NUMBER: P623846

CATALOG NUMBER: IFLD-S-SA3B-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°	63.2	63.2	63.2	63.2	63.2	63.2	63.2	60.1	60.1	58.5	57.0
85°	132.5	132.5	132.5	132.5	132.5	129.4	127.8	126.3	124.8	121.7	120.1
82.5°	212.6	212.6	212.6	212.6	209.5	206.4	204.9	201.8	198.7	194.1	189.5
80°	297.3	297.3	297.3	297.3	292.7	289.6	285.0	281.9	277.3	271.1	264.9
77.5°	394.3	394.3	394.3	389.7	386.6	382.0	377.4	371.2	365.1	357.4	348.1
75°	503.7	503.7	503.7	497.5	492.9	488.3	480.6	472.9	463.6	452.9	440.5
72.5°	622.3	622.3	622.3	614.6	610.0	602.3	593.0	582.2	571.5	557.6	542.2
70°	750.1	750.1	750.1	740.9	733.2	725.5	713.2	700.8	685.4	670.0	651.6
67.5°	888.8	888.8	888.8	878.0	868.7	858.0	844.1	828.7	810.2	788.6	767.1
65°	1050.5	1050.5	1044.3	1035.1	1024.3	1008.9	992.0	970.4	947.3	919.6	890.3
62.5°	1241.5	1241.5	1232.3	1221.5	1207.6	1187.6	1164.5	1136.8	1104.4	1069.0	1033.6
60°	1463.3	1463.3	1452.5	1438.7	1418.6	1394.0	1363.2	1327.8	1287.7	1243.0	1199.9
57.5°	1719.0	1719.0	1705.1	1686.7	1662.0	1631.2	1592.7	1548.0	1497.2	1441.7	1387.8
55°	1996.3	1996.3	1979.3	1957.8	1928.5	1891.5	1845.3	1792.9	1731.3	1668.2	1598.9
52.5°	2290.5	2290.5	2270.4	2245.8	2211.9	2168.8	2116.4	2054.8	1983.9	1910.0	1828.4
50°	2600.1	2600.1	2577.0	2549.2	2510.7	2459.9	2399.8	2329.0	2250.4	2164.2	2070.2
47.5°	2931.2	2931.2	2905.0	2872.7	2826.5	2768.0	2697.1	2615.5	2526.1	2429.1	2322.8
45°	3271.6	3271.6	3242.4	3205.4	3154.6	3088.3	3009.8	2931.2	2817.3	2704.8	2581.6
42.5°	3625.9	3625.9	3592.0	3550.4	3491.9	3419.5	3330.2	3228.5	3116.1	2989.8	2855.8
40°	3994.1	3994.1	3955.5	3907.8	3843.1	3759.9	3659.8	3545.8	3419.5	3279.3	3131.5
37.5°	4369.9	4369.9	4326.8	4274.4	4202.0	4109.6	3997.1	3870.8	3729.1	3573.5	3410.3
35°	4748.8	4748.8	4701.1	4644.1	4564.0	4462.3	4340.6	4200.5	4043.3	3873.9	3690.6
32.5°	5135.4	5135.4	5083.1	5018.4	4927.5	4815.0	4681.0	4528.5	4369.9	4172.7	3972.5
30°	5517.4	5517.4	5460.4	5389.6	5292.5	5169.3	5023.0	4855.1	4668.7	4466.9	4251.3
27.5°	5893.3	5877.9	5830.1	5754.6	5648.4	5517.4	5358.8	5177.0	4975.2	4753.4	4522.4
25°	6263.0	6246.0	6193.6	6110.5	5996.5	5853.2	5682.3	5488.2	5271.0	5036.9	4784.2
22.5°	6617.2	6598.7	6543.3	6454.0	6332.3	6176.7	5993.4	5785.5	5554.4	5303.3	5036.9
20°	6945.3	6925.3	6868.3	6774.3	6648.0	6483.2	6289.1	6065.8	5819.3	5554.4	5271.0
17.5°	7241.1	7221.0	7161.0	7063.9	6945.3	6762.0	6561.8	6326.1	6065.8	5785.5	5488.2
15°	7501.4	7479.8	7418.2	7321.2	7185.6	7013.1	6802.1	6561.8	6289.1	5993.4	5682.3
12.5°	7723.2	7701.6	7638.5	7541.4	7401.3	7228.7	7013.1	6762.0	6483.2	6176.7	5853.2
10°	7898.8	7877.2	7817.1	7724.7	7579.9	7401.3	7185.6	6945.3	6648.0	6332.3	5996.5
7.5°	8025.1	8005.1	7949.6	7857.2	7724.7	7541.4	7321.2	7063.9	6774.3	6454.0	6110.5
5°	8120.6	8097.5	8042.0	7949.6	7817.1	7638.5	7418.2	7161.0	6868.3	6543.3	6193.6
2.5°	8186.8	8159.1	8097.5	8005.1	7877.2	7701.6	7479.8	7221.0	6925.3	6598.7	6246.0
0°	8205.3	8186.8	8120.6	8025.1	7898.8	7723.2	7501.4	7241.1	6945.3	6617.2	6263.0

REPORT NUMBER: P623846

CATALOG NUMBER: IFLD-S-SA3B-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°	55.5	55.5	53.9	52.4	50.8	47.8	46.2	44.7	43.1	40.0	38.5
85°	117.1	114.0	110.9	107.8	103.2	100.1	95.5	92.4	87.8	83.2	78.6
82.5°	184.8	180.2	174.1	169.4	163.3	155.6	149.4	141.7	134.0	127.8	120.1
80°	258.8	251.1	243.4	235.7	226.4	217.2	207.9	198.7	187.9	177.1	166.4
77.5°	338.9	328.1	317.3	305.0	294.2	281.9	269.6	257.2	243.4	229.5	215.6
75°	428.2	414.3	398.9	383.5	369.7	352.7	335.8	318.8	300.4	283.4	264.9
72.5°	525.3	508.3	489.8	471.3	451.3	429.8	408.2	385.1	363.5	342.0	318.8
70°	630.0	610.0	586.9	563.8	539.1	512.9	486.7	459.0	431.3	403.6	375.8
67.5°	742.4	717.8	690.1	662.3	631.5	600.7	569.9	537.6	503.7	469.8	437.5
65°	862.6	831.8	799.4	764.0	728.6	693.1	656.2	617.7	579.2	539.1	503.7
62.5°	996.6	958.1	916.5	873.4	833.3	790.2	750.1	702.4	656.2	611.5	566.8
60°	1152.2	1101.3	1050.5	996.6	945.8	890.3	841.0	788.6	736.3	685.4	633.1
57.5°	1326.2	1261.5	1199.9	1135.2	1067.4	1005.8	942.7	879.5	821.0	760.9	703.9
55°	1523.4	1444.8	1367.8	1287.7	1209.2	1132.1	1052.0	981.2	908.8	841.0	774.8
52.5°	1739.0	1649.7	1554.2	1463.3	1363.2	1267.7	1178.3	1089.0	1004.3	922.7	847.2
50°	1970.1	1865.3	1756.0	1645.1	1531.1	1418.6	1310.8	1206.1	1107.5	1012.0	922.7
47.5°	2210.4	2091.8	1967.0	1840.7	1719.0	1581.9	1452.5	1333.9	1215.3	1107.5	1004.3
45°	2456.8	2322.8	2185.7	2042.5	1899.2	1751.3	1608.1	1463.3	1333.9	1206.1	1089.0
42.5°	2711.0	2560.0	2407.5	2248.9	2090.2	1928.5	1766.8	1608.1	1452.5	1310.8	1178.3
40°	2972.8	2806.5	2632.4	2459.9	2290.5	2105.6	1928.5	1751.3	1581.9	1418.6	1267.7
37.5°	3234.7	3052.9	2865.0	2670.9	2476.8	2290.5	2090.2	1899.2	1719.0	1531.1	1363.2
35°	3498.1	3297.8	3094.5	2883.5	2670.9	2459.9	2248.9	2042.5	1840.7	1645.1	1463.3
32.5°	3763.0	3544.3	3319.4	3094.5	2865.0	2632.4	2407.5	2185.7	1967.0	1756.0	1554.2
30°	4023.3	3786.1	3544.3	3297.8	3052.9	2806.5	2560.0	2322.8	2091.8	1865.3	1649.7
27.5°	4277.5	4023.3	3763.0	3498.1	3234.7	2972.8	2711.0	2456.8	2210.4	1970.1	1739.0
25°	4522.4	4251.3	3972.5	3690.6	3410.3	3131.5	2855.8	2581.6	2322.8	2070.2	1828.4
22.5°	4753.4	4466.9	4172.7	3873.9	3573.5	3279.3	2989.8	2704.8	2429.1	2164.2	1910.0
20°	4975.2	4668.7	4369.9	4043.3	3729.1	3419.5	3116.1	2817.3	2526.1	2250.4	1983.9
17.5°	5177.0	4855.1	4528.5	4200.5	3870.8	3545.8	3228.5	2931.2	2615.5	2329.0	2054.8
15°	5358.8	5023.0	4681.0	4340.6	3997.1	3659.8	3330.2	3009.8	2697.1	2399.8	2116.4
12.5°	5517.4	5169.3	4815.0	4462.3	4109.6	3759.9	3419.5	3088.3	2768.0	2459.9	2168.8
10°	5648.4	5292.5	4927.5	4564.0	4202.0	3843.1	3491.9	3154.6	2826.5	2510.7	2211.9
7.5°	5754.6	5389.6	5018.4	4644.1	4274.4	3907.8	3550.4	3205.4	2872.7	2549.2	2245.8
5°	5830.1	5460.4	5083.1	4701.1	4326.8	3955.5	3592.0	3242.4	2905.0	2577.0	2270.4
2.5°	5877.9	5517.4	5135.4	4748.8	4369.9	3994.1	3625.9	3271.6	2931.2	2600.1	2290.5
0°	5893.3	5517.4	5135.4	4748.8	4369.9	3994.1	3625.9	3271.6	2931.2	2600.1	2290.5

REPORT NUMBER: P623846

CATALOG NUMBER: IFLD-S-SA3B-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°	37.0	33.9	30.8	29.3	26.2	24.6	21.6	18.5	16.9	13.9	10.8
85°	73.9	67.8	63.2	58.5	53.9	47.8	43.1	38.5	32.3	27.7	21.6
82.5°	112.4	104.7	97.0	89.3	81.6	73.9	64.7	57.0	49.3	41.6	32.3
80°	155.6	143.3	132.5	121.7	110.9	100.1	87.8	77.0	64.7	53.9	43.1
77.5°	200.2	186.4	171.0	155.6	140.2	126.3	110.9	97.0	83.2	67.8	53.9
75°	248.0	229.5	212.6	192.5	174.1	154.0	135.5	117.1	100.1	83.2	64.7
72.5°	297.3	274.2	251.1	229.5	206.4	183.3	161.7	138.6	117.1	97.0	77.0
70°	348.1	320.4	292.7	266.5	240.3	212.6	187.9	161.7	135.5	110.9	87.8
67.5°	402.0	369.7	337.3	303.4	274.2	243.4	212.6	183.3	154.0	126.3	100.1
65°	460.6	422.0	382.0	346.6	308.1	274.2	240.3	206.4	174.1	140.2	110.9
62.5°	520.6	476.0	431.3	386.6	346.6	303.4	266.5	229.5	192.5	155.6	121.7
60°	582.2	531.4	480.6	431.3	382.0	337.3	292.7	251.1	212.6	171.0	132.5
57.5°	645.4	588.4	531.4	476.0	422.0	369.7	320.4	274.2	229.5	186.4	143.3
55°	710.1	645.4	582.2	520.6	460.6	402.0	348.1	297.3	248.0	200.2	155.6
52.5°	774.8	703.9	633.1	566.8	503.7	437.5	375.8	318.8	264.9	215.6	166.4
50°	841.0	760.9	685.4	611.5	539.1	469.8	403.6	342.0	283.4	229.5	177.1
47.5°	908.8	821.0	736.3	656.2	579.2	503.7	431.3	363.5	300.4	243.4	187.9
45°	981.2	879.5	788.6	702.4	617.7	537.6	459.0	385.1	318.8	257.2	198.7
42.5°	1052.0	942.7	841.0	750.1	656.2	569.9	486.7	408.2	335.8	269.6	207.9
40°	1132.1	1005.8	890.3	790.2	693.1	600.7	512.9	429.8	352.7	281.9	217.2
37.5°	1209.2	1067.4	945.8	833.3	728.6	631.5	539.1	451.3	369.7	294.2	226.4
35°	1287.7	1135.2	996.6	873.4	764.0	662.3	563.8	471.3	383.5	305.0	235.7
32.5°	1367.8	1199.9	1050.5	916.5	799.4	690.1	586.9	489.8	398.9	317.3	243.4
30°	1444.8	1261.5	1101.3	958.1	831.8	717.8	610.0	508.3	414.3	328.1	251.1
27.5°	1523.4	1326.2	1152.2	996.6	862.6	742.4	630.0	525.3	428.2	338.9	258.8
25°	1598.9	1387.8	1199.9	1033.6	890.3	767.1	651.6	542.2	440.5	348.1	264.9
22.5°	1668.2	1441.7	1243.0	1069.0	919.6	788.6	670.0	557.6	452.9	357.4	271.1
20°	1731.3	1497.2	1287.7	1104.4	947.3	810.2	685.4	571.5	463.6	365.1	277.3
17.5°	1792.9	1548.0	1327.8	1136.8	970.4	828.7	700.8	582.2	472.9	371.2	281.9
15°	1845.3	1592.7	1363.2	1164.5	992.0	844.1	713.2	593.0	480.6	377.4	285.0
12.5°	1891.5	1631.2	1394.0	1187.6	1008.9	858.0	725.5	602.3	488.3	382.0	289.6
10°	1928.5	1662.0	1418.6	1207.6	1024.3	868.7	733.2	610.0	492.9	386.6	292.7
7.5°	1957.8	1686.7	1438.7	1221.5	1035.1	878.0	740.9	614.6	497.5	389.7	297.3
5°	1979.3	1705.1	1452.5	1232.3	1044.3	888.8	750.1	622.3	503.7	394.3	297.3
2.5°	1996.3	1719.0	1463.3	1241.5	1050.5	888.8	750.1	622.3	503.7	394.3	297.3
0°	1996.3	1719.0	1463.3	1241.5	1050.5	888.8	750.1	622.3	503.7	394.3	297.3

REPORT NUMBER: P623846

CATALOG NUMBER: IFLD-S-SA3B-727-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.7	6.2	3.1	0.0
85°	16.9	10.8	6.2	0.0
82.5°	24.6	16.9	7.7	0.0
80°	32.3	21.6	10.8	0.0
77.5°	41.6	27.7	13.9	0.0
75°	49.3	32.3	16.9	0.0
72.5°	57.0	38.5	18.5	0.0
70°	64.7	43.1	21.6	0.0
67.5°	73.9	47.8	24.6	0.0
65°	81.6	53.9	26.2	0.0
62.5°	89.3	58.5	29.3	0.0
60°	97.0	63.2	30.8	0.0
57.5°	104.7	67.8	33.9	0.0
55°	112.4	73.9	37.0	0.0
52.5°	120.1	78.6	38.5	0.0
50°	127.8	83.2	40.0	0.0
47.5°	134.0	87.8	43.1	0.0
45°	141.7	92.4	44.7	0.0
42.5°	149.4	95.5	46.2	0.0
40°	155.6	100.1	47.8	0.0
37.5°	163.3	103.2	50.8	0.0
35°	169.4	107.8	52.4	0.0
32.5°	174.1	110.9	53.9	0.0
30°	180.2	114.0	55.5	0.0
27.5°	184.8	117.1	55.5	0.0
25°	189.5	120.1	57.0	0.0
22.5°	194.1	121.7	58.5	0.0
20°	198.7	124.8	60.1	0.0
17.5°	201.8	126.3	60.1	0.0
15°	204.9	127.8	63.2	0.0
12.5°	206.4	129.4	63.2	0.0
10°	209.5	132.5	63.2	0.0
7.5°	212.6	132.5	63.2	0.0
5°	212.6	132.5	63.2	0.0
2.5°	212.6	132.5	63.2	0.0
0°	212.6	132.5	63.2	0.0

(END OF REPORT)