

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: P624028

Luminaire Tested: **IFLD-S-SA6E-827-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624028
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

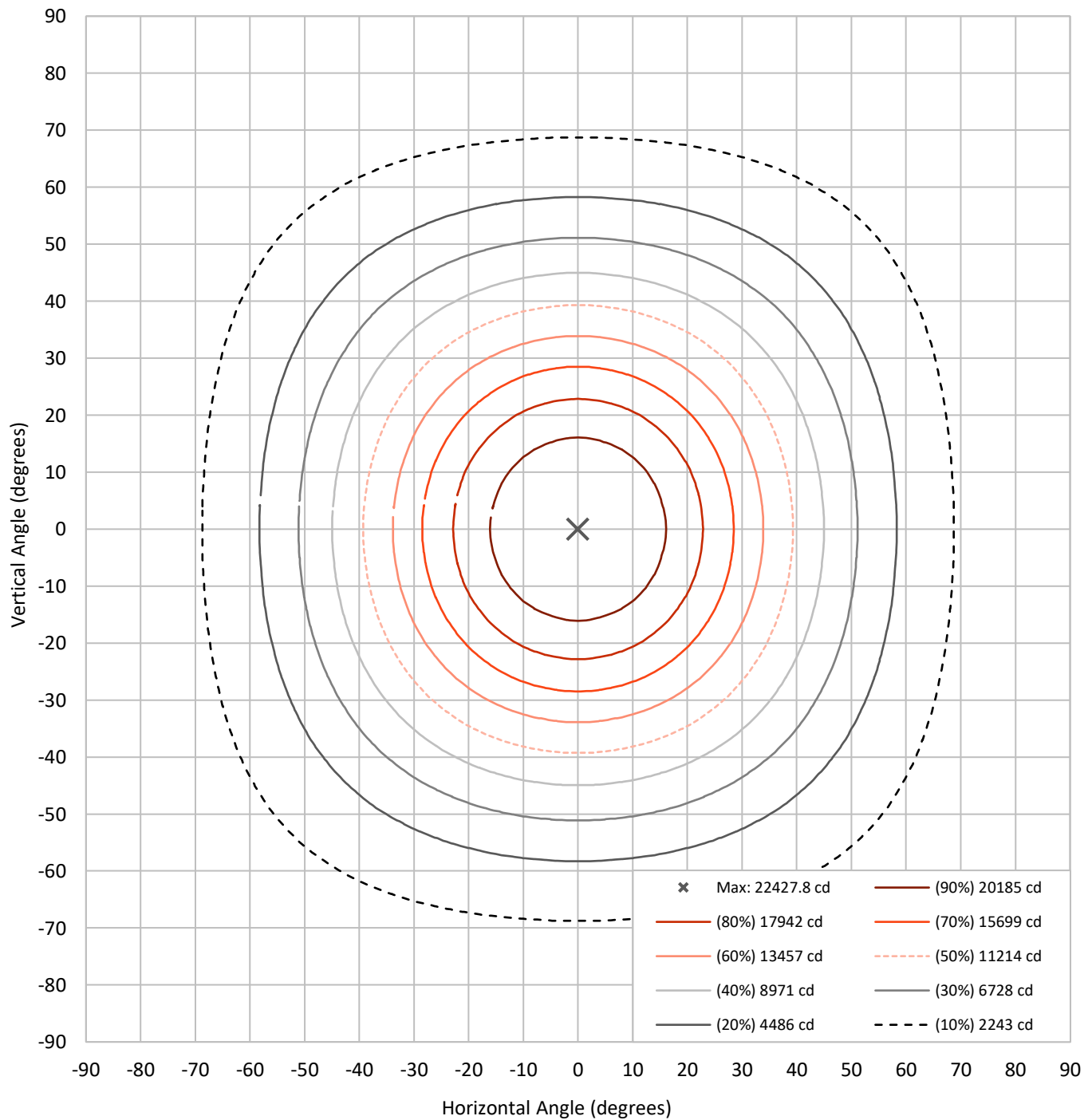
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	40381.8 lumens	Max Intensity:	22427.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	87.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	17472.8 lumens	Field Lumens:	28611.1 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	464.2		
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: P624028

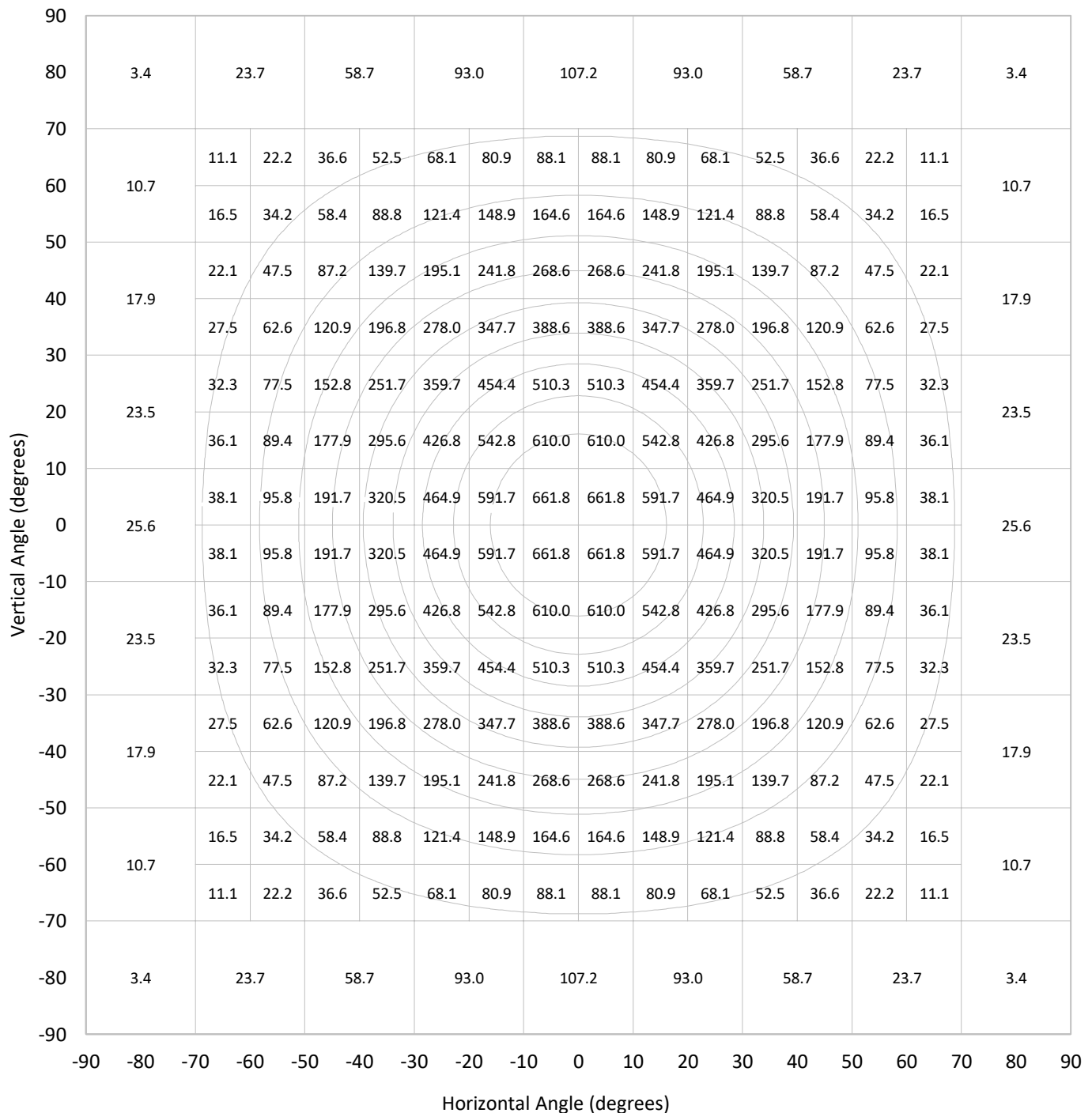
CATALOG NUMBER: IFLD-S-SA6E-827-U-77

Iso-Candela Plot



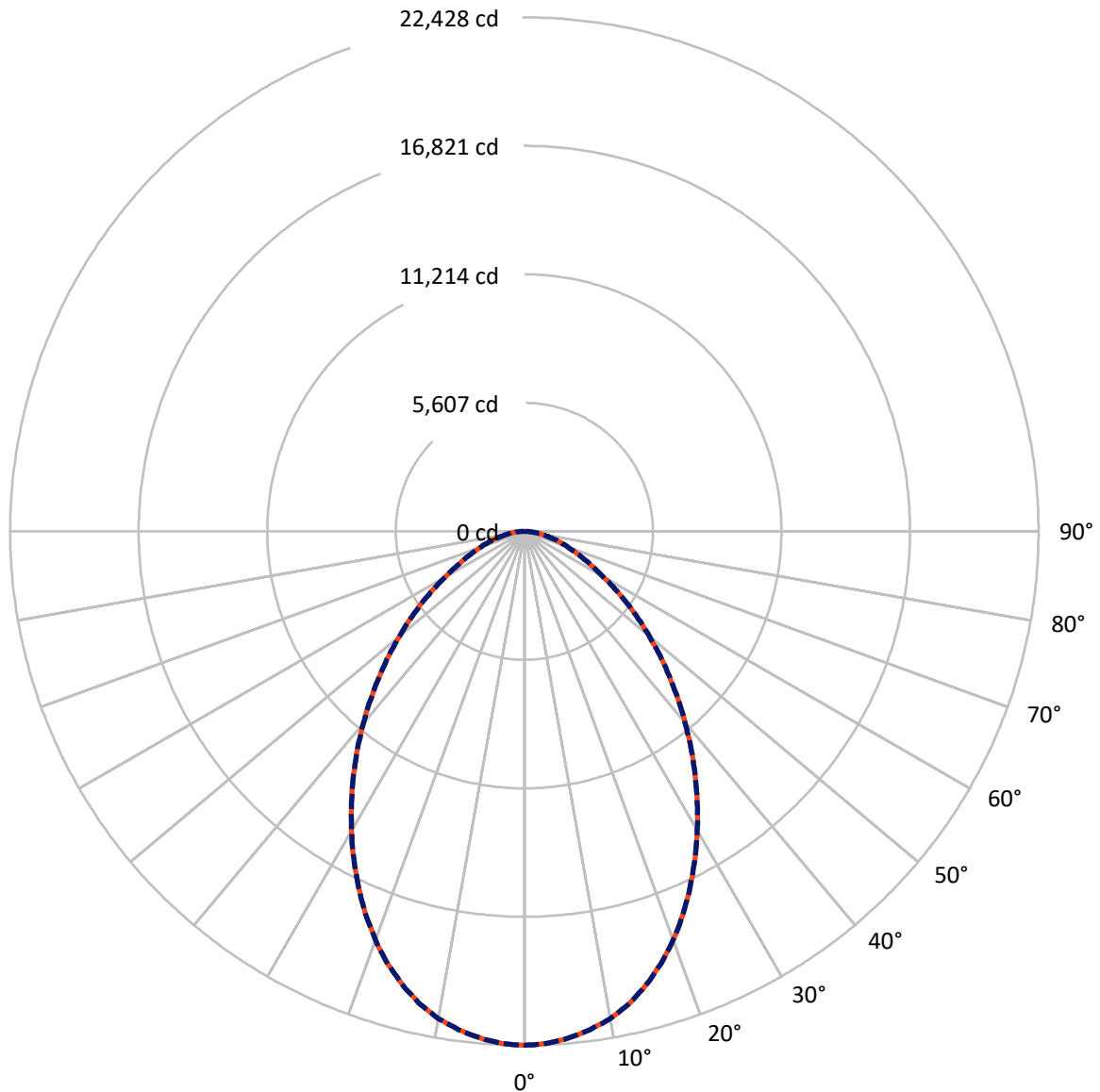
REPORT NUMBER: P624028
CATALOG NUMBER: IFLD-S-SA6E-827-U-77

Lumen Table



REPORT NUMBER: P624028
CATALOG NUMBER: IFLD-S-SA6E-827-U-77

Luminous Intensity Polar Plot

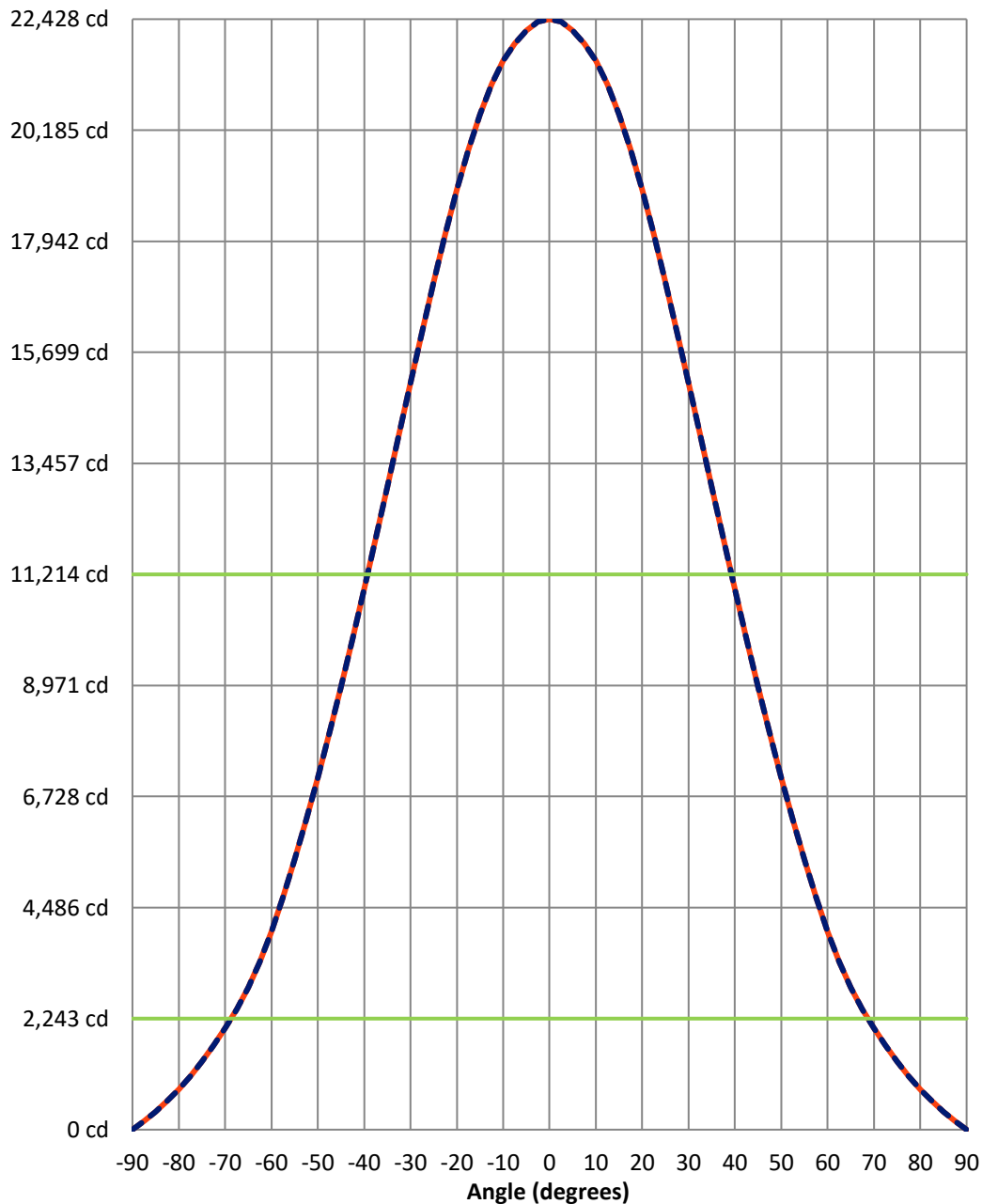


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624028

CATALOG NUMBER: IFLD-S-SA6E-827-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 17472.8
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 28611.1
Efficiency: 70.9%

Spill:

Lumens: 11770.7
Efficiency: 29.1%

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



REPORT NUMBER: P624028

CATALOG NUMBER: IFLD-S-SA6E-827-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°	172.6	172.6	172.6	172.6	172.6	172.6	172.6	164.2	164.2	160.0	155.8
85°	362.1	362.1	362.1	362.1	362.1	353.7	349.4	345.2	341.0	332.6	328.4
82.5°	581.0	581.0	581.0	581.0	572.6	564.2	560.0	551.5	543.1	530.5	517.9
80°	812.6	812.6	812.6	812.6	799.9	791.5	778.9	770.5	757.8	741.0	724.2
77.5°	1077.8	1077.8	1077.8	1065.2	1056.8	1044.1	1031.5	1014.7	997.8	976.8	951.5
75°	1376.7	1376.7	1376.7	1359.9	1347.3	1334.6	1313.6	1292.5	1267.3	1237.8	1204.1
72.5°	1700.9	1700.9	1700.9	1679.9	1667.2	1646.2	1620.9	1591.5	1562.0	1524.1	1482.0
70°	2050.4	2050.4	2050.4	2025.1	2004.1	1983.0	1949.3	1915.6	1873.5	1831.4	1780.9
67.5°	2429.3	2429.3	2429.3	2399.8	2374.6	2345.1	2307.2	2265.1	2214.6	2155.6	2096.7
65°	2871.4	2871.4	2854.5	2829.3	2799.8	2757.7	2711.4	2652.4	2589.3	2513.5	2433.5
62.5°	3393.4	3393.4	3368.2	3338.7	3300.8	3246.1	3182.9	3107.1	3018.7	2921.9	2825.1
60°	3999.7	3999.7	3970.2	3932.3	3877.6	3810.2	3726.0	3629.2	3519.7	3397.6	3279.8
57.5°	4698.6	4698.6	4660.7	4610.2	4542.8	4458.6	4353.4	4231.3	4092.3	3940.8	3793.4
55°	5456.4	5456.4	5410.1	5351.2	5271.2	5170.1	5043.8	4900.7	4732.3	4559.7	4370.2
52.5°	6260.6	6260.6	6205.9	6138.5	6045.9	5928.0	5784.8	5616.4	5422.8	5220.7	4997.5
50°	7106.8	7106.8	7043.7	6967.9	6862.7	6723.7	6559.5	6365.8	6151.1	5915.4	5658.5
47.5°	8012.0	8012.0	7940.5	7852.1	7725.7	7565.8	7372.1	7148.9	6904.8	6639.5	6349.0
45°	8942.5	8942.5	8862.5	8761.5	8622.5	8441.5	8226.8	8012.0	7700.5	7393.1	7056.3
42.5°	9910.8	9910.8	9818.2	9704.5	9544.6	9346.7	9102.5	8824.6	8517.3	8172.0	7805.7
40°	10917.1	10917.1	10811.8	10681.3	10504.5	10277.1	10003.5	9691.9	9346.7	8963.5	8559.4
37.5°	11944.4	11944.4	11826.5	11683.3	11485.5	11232.9	10925.5	10580.3	10192.9	9767.7	9321.4
35°	12980.1	12980.1	12849.6	12693.8	12474.9	12197.0	11864.4	11481.3	11051.8	10588.7	10087.7
32.5°	14036.9	14036.9	13893.7	13716.9	13468.5	13161.1	12794.8	12378.0	11944.4	11405.5	10858.1
30°	15081.0	15081.0	14925.2	14731.5	14466.3	14129.5	13729.5	13270.6	12761.2	12209.6	11620.2
27.5°	16108.3	16066.2	15935.7	15729.4	15438.9	15081.0	14647.3	14150.5	13599.0	12992.7	12361.2
25°	17118.7	17072.4	16929.3	16701.9	16390.4	15998.8	15531.5	15001.0	14407.4	13767.4	13076.9
22.5°	18087.1	18036.6	17885.0	17640.8	17308.2	16883.0	16381.9	15813.6	15182.0	14495.8	13767.4
20°	18983.9	18929.1	18773.3	18516.5	18171.3	17720.8	17190.3	16579.8	15906.2	15182.0	14407.4
17.5°	19792.2	19737.5	19573.3	19308.0	18983.9	18482.8	17935.5	17291.4	16579.8	15813.6	15001.0
15°	20503.7	20444.8	20276.4	20011.2	19640.7	19169.1	18592.3	17935.5	17190.3	16381.9	15531.5
12.5°	21110.0	21051.1	20878.5	20613.2	20230.1	19758.5	19169.1	18482.8	17720.8	16883.0	15998.8
10°	21590.0	21531.0	21366.8	21114.2	20718.5	20230.1	19640.7	18983.9	18171.3	17308.2	16390.4
7.5°	21935.2	21880.5	21728.9	21476.3	21114.2	20613.2	20011.2	19308.0	18516.5	17640.8	16701.9
5°	22196.3	22133.1	21981.5	21728.9	21366.8	20878.5	20276.4	19573.3	18773.3	17885.0	16929.3
2.5°	22377.3	22301.5	22133.1	21880.5	21531.0	21051.1	20444.8	19737.5	18929.1	18036.6	17072.4
0°	22427.8	22377.3	22196.3	21935.2	21590.0	21110.0	20503.7	19792.2	18983.9	18087.1	17118.7

REPORT NUMBER: P624028

CATALOG NUMBER: IFLD-S-SA6E-827-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°	151.6	151.6	147.4	143.1	138.9	130.5	126.3	122.1	117.9	109.5	105.3
85°	320.0	311.6	303.1	294.7	282.1	273.7	261.0	252.6	240.0	227.4	214.7
82.5°	505.2	492.6	475.8	463.1	446.3	425.2	408.4	387.3	366.3	349.4	328.4
80°	707.3	686.3	665.2	644.2	618.9	593.6	568.4	543.1	513.6	484.2	454.7
77.5°	926.2	896.8	867.3	833.6	804.2	770.5	736.8	703.1	665.2	627.3	589.4
75°	1170.4	1132.5	1090.4	1048.3	1010.5	964.1	917.8	871.5	821.0	774.7	724.2
72.5°	1435.7	1389.4	1338.8	1288.3	1233.6	1174.6	1115.7	1052.6	993.6	934.7	871.5
70°	1722.0	1667.2	1604.1	1540.9	1473.6	1402.0	1330.4	1254.6	1178.9	1103.1	1027.3
67.5°	2029.3	1962.0	1886.2	1810.4	1726.2	1642.0	1557.8	1469.4	1376.7	1284.1	1195.7
65°	2357.7	2273.5	2185.1	2088.3	1991.4	1894.6	1793.6	1688.3	1583.0	1473.6	1376.7
62.5°	2724.0	2618.8	2505.1	2387.2	2277.7	2159.8	2050.4	1919.9	1793.6	1671.5	1549.4
60°	3149.2	3010.3	2871.4	2724.0	2585.1	2433.5	2298.8	2155.6	2012.5	1873.5	1730.4
57.5°	3625.0	3448.2	3279.8	3102.9	2917.7	2749.3	2576.7	2404.0	2244.0	2079.8	1924.1
55°	4163.9	3949.2	3738.7	3519.7	3305.0	3094.5	2875.6	2681.9	2484.0	2298.8	2117.7
52.5°	4753.3	4509.1	4248.1	3999.7	3726.0	3465.0	3220.8	2976.6	2745.1	2521.9	2315.6
50°	5384.9	5098.6	4799.6	4496.5	4185.0	3877.6	3582.9	3296.6	3027.1	2766.1	2521.9
47.5°	6041.7	5717.5	5376.4	5031.2	4698.6	4323.9	3970.2	3646.0	3321.9	3027.1	2745.1
45°	6715.3	6349.0	5974.3	5582.7	5191.2	4787.0	4395.5	3999.7	3646.0	3296.6	2976.6
42.5°	7410.0	6997.4	6580.6	6146.9	5713.3	5271.2	4829.1	4395.5	3970.2	3582.9	3220.8
40°	8125.7	7671.0	7195.3	6723.7	6260.6	5755.4	5271.2	4787.0	4323.9	3877.6	3465.0
37.5°	8841.5	8344.6	7831.0	7300.5	6770.0	6260.6	5713.3	5191.2	4698.6	4185.0	3726.0
35°	9561.4	9014.1	8458.3	7881.5	7300.5	6723.7	6146.9	5582.7	5031.2	4496.5	3999.7
32.5°	10285.6	9687.7	9073.0	8458.3	7831.0	7195.3	6580.6	5974.3	5376.4	4799.6	4248.1
30°	10997.1	10348.7	9687.7	9014.1	8344.6	7671.0	6997.4	6349.0	5717.5	5098.6	4509.1
27.5°	11691.8	10997.1	10285.6	9561.4	8841.5	8125.7	7410.0	6715.3	6041.7	5384.9	4753.3
25°	12361.2	11620.2	10858.1	10087.7	9321.4	8559.4	7805.7	7056.3	6349.0	5658.5	4997.5
22.5°	12992.7	12209.6	11405.5	10588.7	9767.7	8963.5	8172.0	7393.1	6639.5	5915.4	5220.7
20°	13599.0	12761.2	11944.4	11051.8	10192.9	9346.7	8517.3	7700.5	6904.8	6151.1	5422.8
17.5°	14150.5	13270.6	12378.0	11481.3	10580.3	9691.9	8824.6	8012.0	7148.9	6365.8	5616.4
15°	14647.3	13729.5	12794.8	11864.4	10925.5	10003.5	9102.5	8226.8	7372.1	6559.5	5784.8
12.5°	15081.0	14129.5	13161.1	12197.0	11232.9	10277.1	9346.7	8441.5	7565.8	6723.7	5928.0
10°	15438.9	14466.3	13468.5	12474.9	11485.5	10504.5	9544.6	8622.5	7725.7	6862.7	6045.9
7.5°	15729.4	14731.5	13716.9	12693.8	11683.3	10681.3	9704.5	8761.5	7852.1	6967.9	6138.5
5°	15935.7	14925.2	13893.7	12849.6	11826.5	10811.8	9818.2	8862.5	7940.5	7043.7	6205.9
2.5°	16066.2	15081.0	14036.9	12980.1	11944.4	10917.1	9910.8	8942.5	8012.0	7106.8	6260.6
0°	16108.3	15081.0	14036.9	12980.1	11944.4	10917.1	9910.8	8942.5	8012.0	7106.8	6260.6

REPORT NUMBER: P624028

CATALOG NUMBER: IFLD-S-SA6E-827-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°	101.0	92.6	84.2	80.0	71.6	67.4	58.9	50.5	46.3	37.9	29.5
85°	202.1	185.2	172.6	160.0	147.4	130.5	117.9	105.3	88.4	75.8	58.9
82.5°	307.3	286.3	265.2	244.2	223.1	202.1	176.8	155.8	134.7	113.7	88.4
80°	425.2	391.5	362.1	332.6	303.1	273.7	240.0	210.5	176.8	147.4	117.9
77.5°	547.3	509.4	467.3	425.2	383.1	345.2	303.1	265.2	227.4	185.2	147.4
75°	677.8	627.3	581.0	526.3	475.8	421.0	370.5	320.0	273.7	227.4	176.8
72.5°	812.6	749.4	686.3	627.3	564.2	501.0	442.1	378.9	320.0	265.2	210.5
70°	951.5	875.7	799.9	728.4	656.8	581.0	513.6	442.1	370.5	303.1	240.0
67.5°	1098.9	1010.5	922.0	829.4	749.4	665.2	581.0	501.0	421.0	345.2	273.7
65°	1258.9	1153.6	1044.1	947.3	842.0	749.4	656.8	564.2	475.8	383.1	303.1
62.5°	1423.1	1301.0	1178.9	1056.8	947.3	829.4	728.4	627.3	526.3	425.2	332.6
60°	1591.5	1452.5	1313.6	1178.9	1044.1	922.0	799.9	686.3	581.0	467.3	362.1
57.5°	1764.1	1608.3	1452.5	1301.0	1153.6	1010.5	875.7	749.4	627.3	509.4	391.5
55°	1940.9	1764.1	1591.5	1423.1	1258.9	1098.9	951.5	812.6	677.8	547.3	425.2
52.5°	2117.7	1924.1	1730.4	1549.4	1376.7	1195.7	1027.3	871.5	724.2	589.4	454.7
50°	2298.8	2079.8	1873.5	1671.5	1473.6	1284.1	1103.1	934.7	774.7	627.3	484.2
47.5°	2484.0	2244.0	2012.5	1793.6	1583.0	1376.7	1178.9	993.6	821.0	665.2	513.6
45°	2681.9	2404.0	2155.6	1919.9	1688.3	1469.4	1254.6	1052.6	871.5	703.1	543.1
42.5°	2875.6	2576.7	2298.8	2050.4	1793.6	1557.8	1330.4	1115.7	917.8	736.8	568.4
40°	3094.5	2749.3	2433.5	2159.8	1894.6	1642.0	1402.0	1174.6	964.1	770.5	593.6
37.5°	3305.0	2917.7	2585.1	2277.7	1991.4	1726.2	1473.6	1233.6	1010.5	804.2	618.9
35°	3519.7	3102.9	2724.0	2387.2	2088.3	1810.4	1540.9	1288.3	1048.3	833.6	644.2
32.5°	3738.7	3279.8	2871.4	2505.1	2185.1	1886.2	1604.1	1338.8	1090.4	867.3	665.2
30°	3949.2	3448.2	3010.3	2618.8	2273.5	1962.0	1667.2	1389.4	1132.5	896.8	686.3
27.5°	4163.9	3625.0	3149.2	2724.0	2357.7	2029.3	1722.0	1435.7	1170.4	926.2	707.3
25°	4370.2	3793.4	3279.8	2825.1	2433.5	2096.7	1780.9	1482.0	1204.1	951.5	724.2
22.5°	4559.7	3940.8	3397.6	2921.9	2513.5	2155.6	1831.4	1524.1	1237.8	976.8	741.0
20°	4732.3	4092.3	3519.7	3018.7	2589.3	2214.6	1873.5	1562.0	1267.3	997.8	757.8
17.5°	4900.7	4231.3	3629.2	3107.1	2652.4	2265.1	1915.6	1591.5	1292.5	1014.7	770.5
15°	5043.8	4353.4	3726.0	3182.9	2711.4	2307.2	1949.3	1620.9	1313.6	1031.5	778.9
12.5°	5170.1	4458.6	3810.2	3246.1	2757.7	2345.1	1983.0	1646.2	1334.6	1044.1	791.5
10°	5271.2	4542.8	3877.6	3300.8	2799.8	2374.6	2004.1	1667.2	1347.3	1056.8	799.9
7.5°	5351.2	4610.2	3932.3	3338.7	2829.3	2399.8	2025.1	1679.9	1359.9	1065.2	812.6
5°	5410.1	4660.7	3970.2	3368.2	2854.5	2429.3	2050.4	1700.9	1376.7	1077.8	812.6
2.5°	5456.4	4698.6	3999.7	3393.4	2871.4	2429.3	2050.4	1700.9	1376.7	1077.8	812.6
0°	5456.4	4698.6	3999.7	3393.4	2871.4	2429.3	2050.4	1700.9	1376.7	1077.8	812.6

REPORT NUMBER: P624028

CATALOG NUMBER: IFLD-S-SA6E-827-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	21.1	16.8	8.4	0.0
85°	46.3	29.5	16.8	0.0
82.5°	67.4	46.3	21.1	0.0
80°	88.4	58.9	29.5	0.0
77.5°	113.7	75.8	37.9	0.0
75°	134.7	88.4	46.3	0.0
72.5°	155.8	105.3	50.5	0.0
70°	176.8	117.9	58.9	0.0
67.5°	202.1	130.5	67.4	0.0
65°	223.1	147.4	71.6	0.0
62.5°	244.2	160.0	80.0	0.0
60°	265.2	172.6	84.2	0.0
57.5°	286.3	185.2	92.6	0.0
55°	307.3	202.1	101.0	0.0
52.5°	328.4	214.7	105.3	0.0
50°	349.4	227.4	109.5	0.0
47.5°	366.3	240.0	117.9	0.0
45°	387.3	252.6	122.1	0.0
42.5°	408.4	261.0	126.3	0.0
40°	425.2	273.7	130.5	0.0
37.5°	446.3	282.1	138.9	0.0
35°	463.1	294.7	143.1	0.0
32.5°	475.8	303.1	147.4	0.0
30°	492.6	311.6	151.6	0.0
27.5°	505.2	320.0	151.6	0.0
25°	517.9	328.4	155.8	0.0
22.5°	530.5	332.6	160.0	0.0
20°	543.1	341.0	164.2	0.0
17.5°	551.5	345.2	164.2	0.0
15°	560.0	349.4	172.6	0.0
12.5°	564.2	353.7	172.6	0.0
10°	572.6	362.1	172.6	0.0
7.5°	581.0	362.1	172.6	0.0
5°	581.0	362.1	172.6	0.0
2.5°	581.0	362.1	172.6	0.0
0°	581.0	362.1	172.6	0.0

(END OF REPORT)