

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: P623910

Luminaire Tested: **IFLD-S-SA6C-735-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623910
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42547.7 lumens	Max Intensity:	23630.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	132.3 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:	18410 lumens	Field Lumens:	30145.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

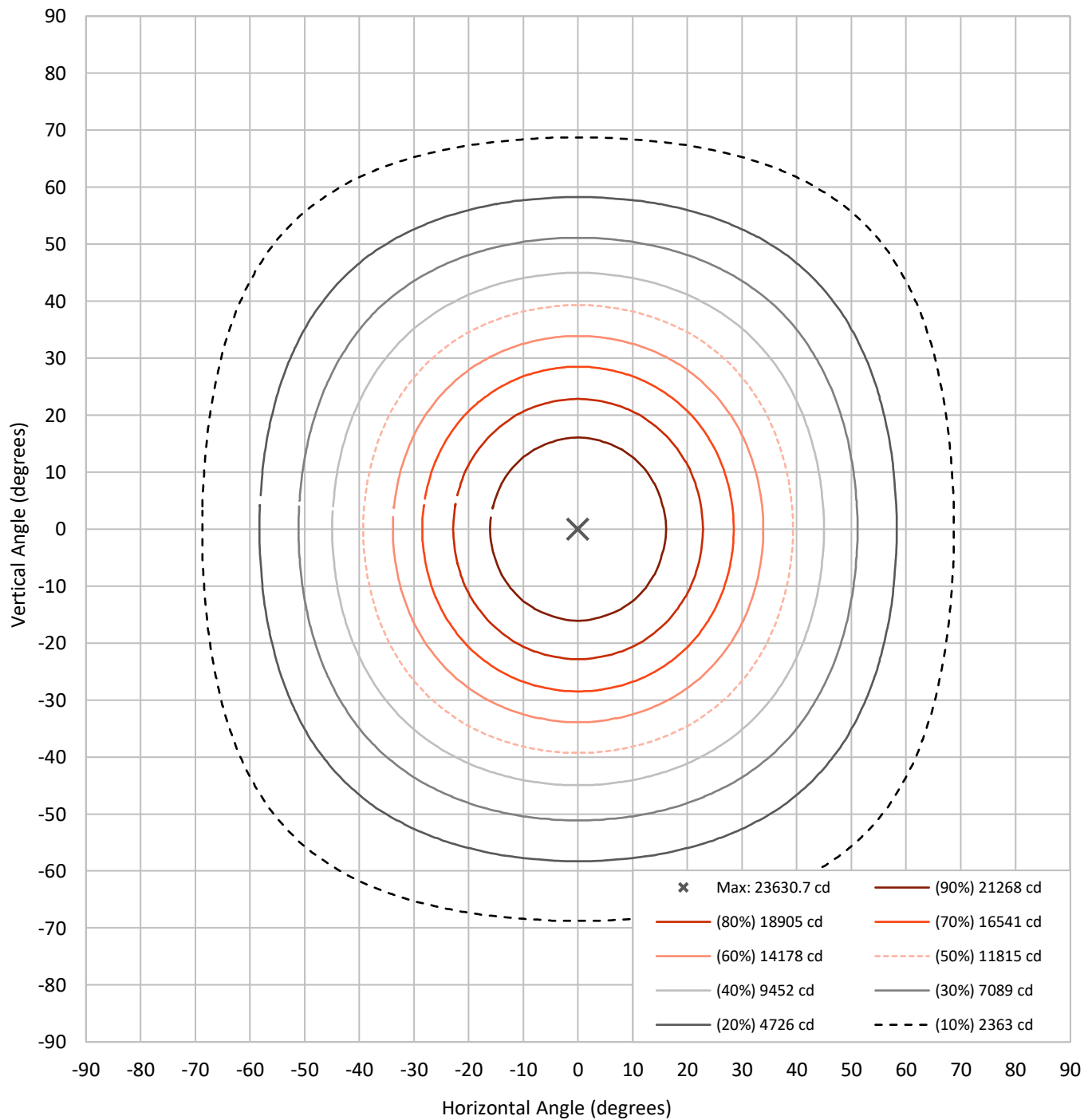
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P623910

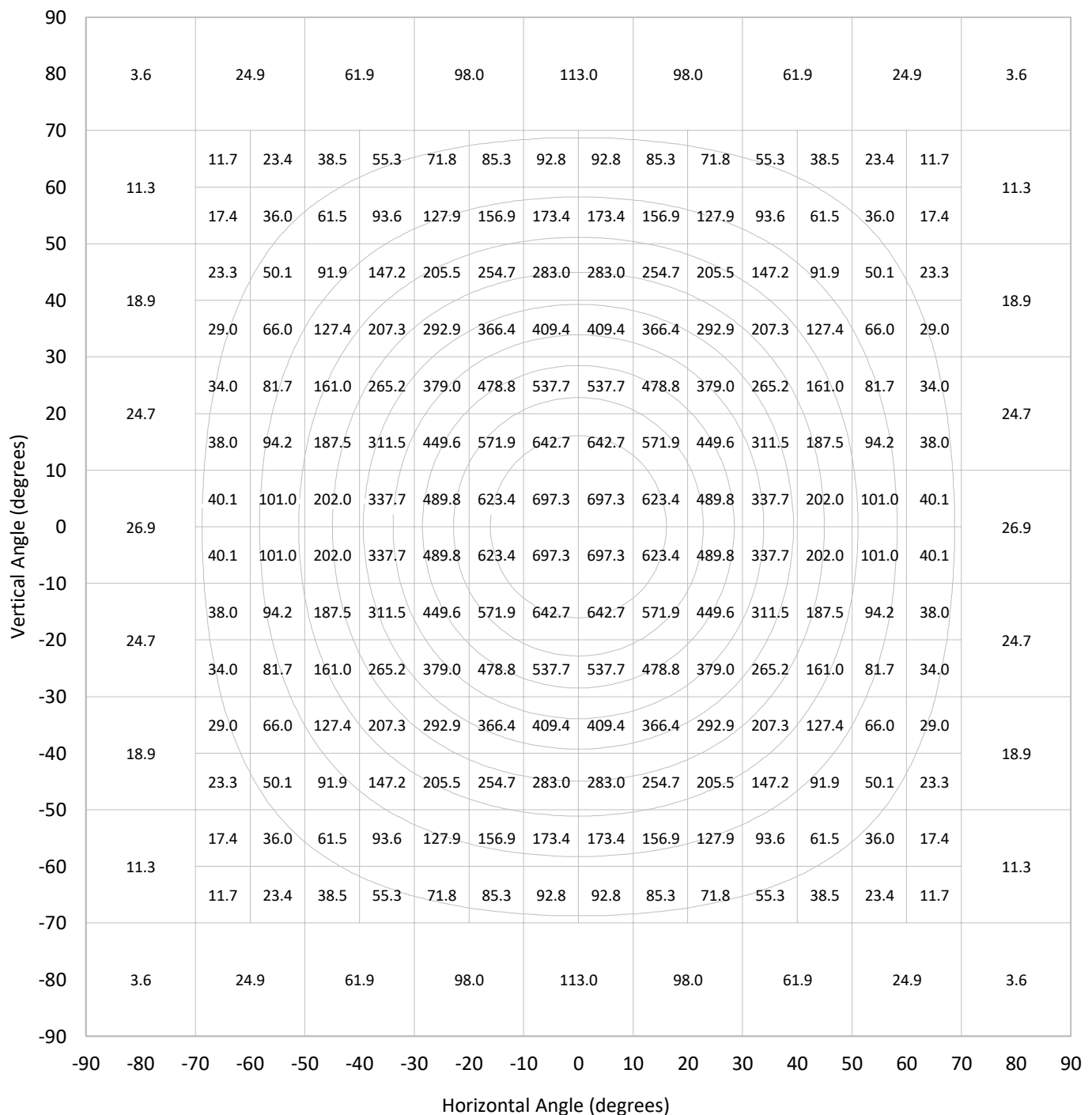
CATALOG NUMBER: IFLD-S-SA6C-735-U-77

Iso-Candela Plot



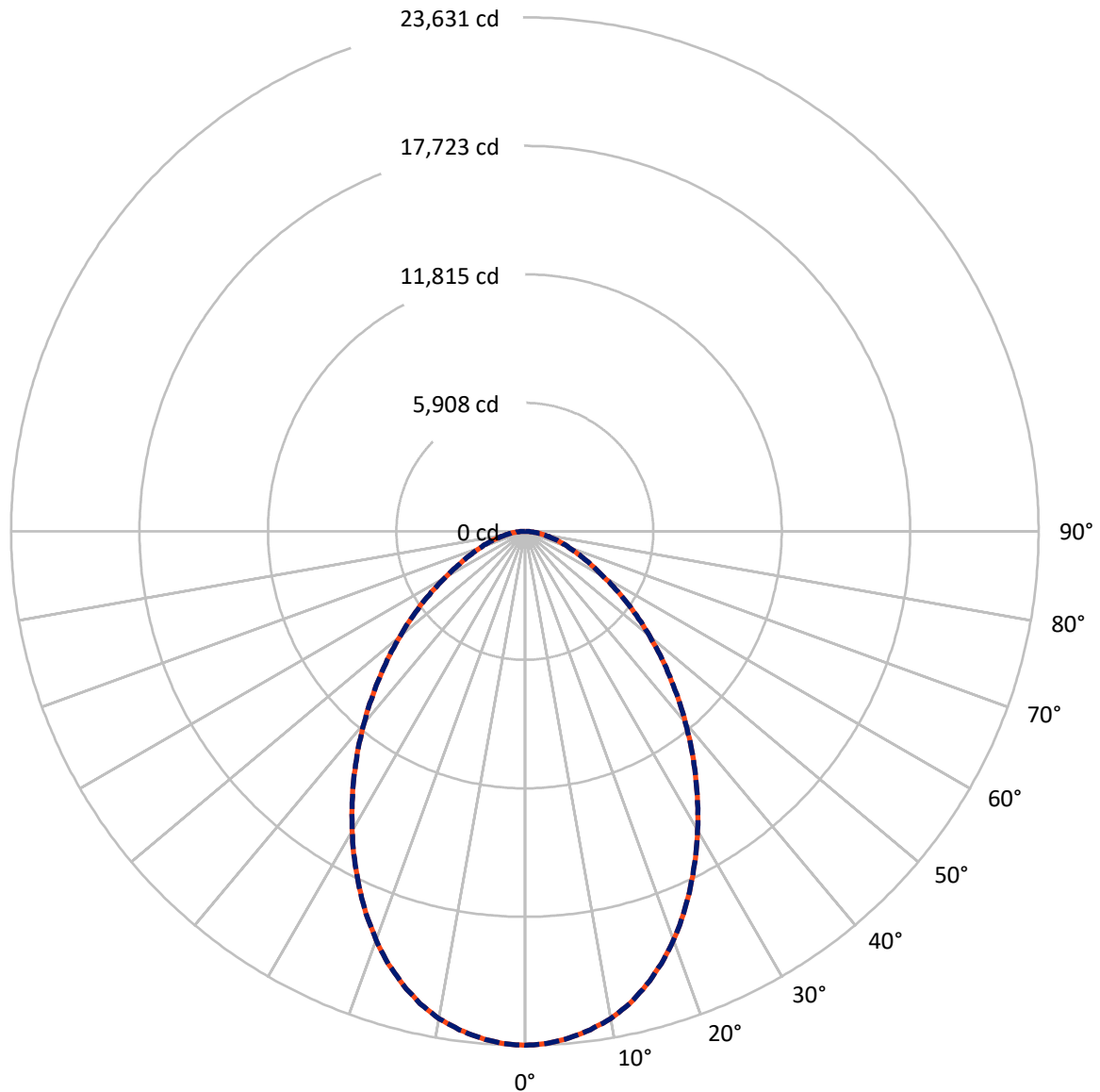
REPORT NUMBER: P623910
CATALOG NUMBER: IFLD-S-SA6C-735-U-77

Lumen Table



REPORT NUMBER: P623910
CATALOG NUMBER: IFLD-S-SA6C-735-U-77

Luminous Intensity Polar Plot

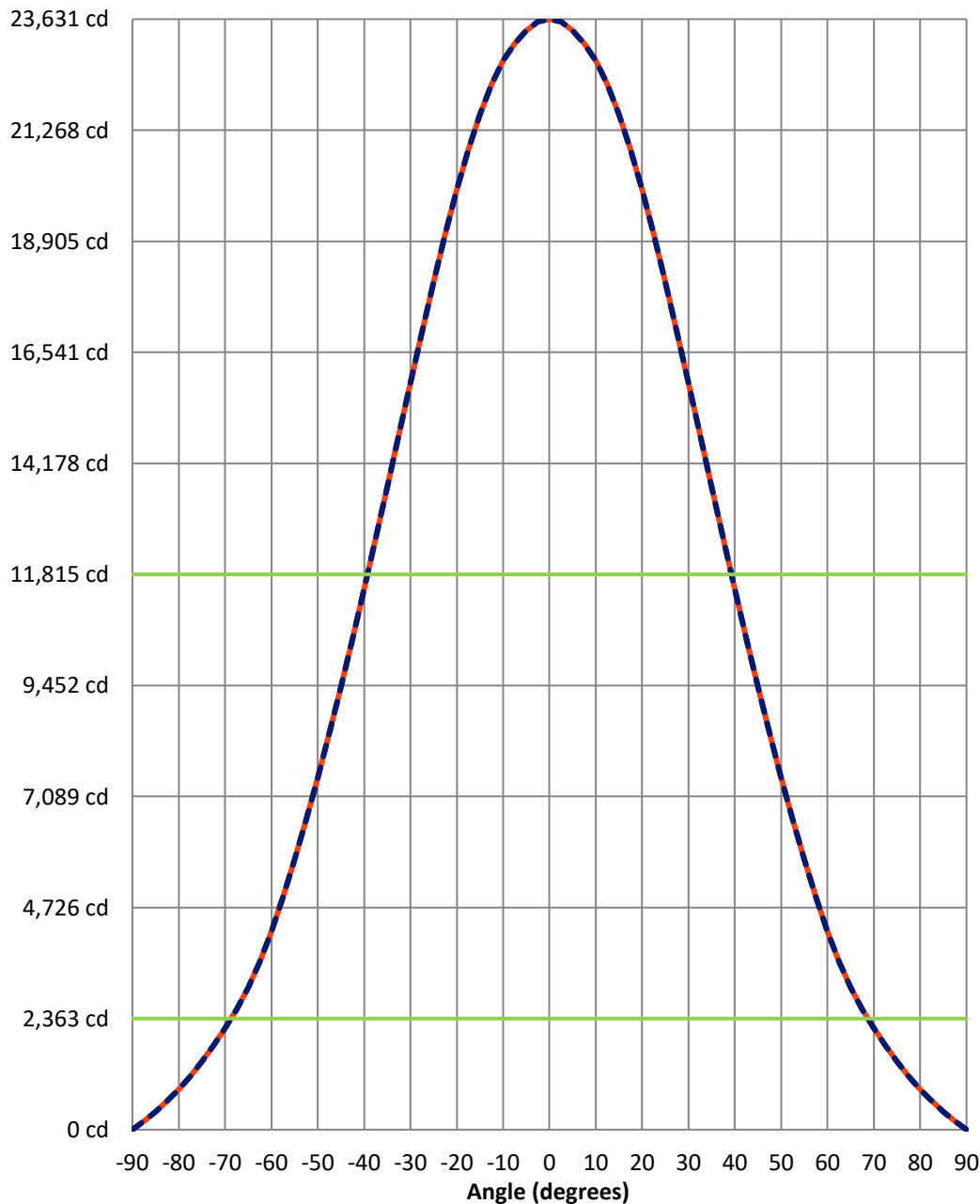


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623910

CATALOG NUMBER: IFLD-S-SA6C-735-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 18410
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 30145.7
Efficiency: 70.9%

Spill:

Lumens: 12402
Efficiency: 29.1%

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

REPORT NUMBER: P623910

CATALOG NUMBER: IFLD-S-SA6C-735-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°	181.9	181.9	181.9	181.9	181.9	181.9	181.9	173.0	173.0	168.6	164.1
85°	381.5	381.5	381.5	381.5	381.5	372.6	368.2	363.8	359.3	350.4	346.0
82.5°	612.2	612.2	612.2	612.2	603.3	594.4	590.0	581.1	572.2	558.9	545.6
80°	856.2	856.2	856.2	856.2	842.8	834.0	820.7	811.8	798.5	780.7	763.0
77.5°	1135.6	1135.6	1135.6	1122.3	1113.4	1100.1	1086.8	1069.1	1051.3	1029.2	1002.5
75°	1450.6	1450.6	1450.6	1432.8	1419.5	1406.2	1384.0	1361.9	1335.2	1304.2	1268.7
72.5°	1792.2	1792.2	1792.2	1770.0	1756.7	1734.5	1707.9	1676.8	1645.8	1605.8	1561.5
70°	2160.3	2160.3	2160.3	2133.7	2111.6	2089.4	2053.9	2018.4	1974.0	1929.7	1876.4
67.5°	2559.6	2559.6	2559.6	2528.5	2501.9	2470.9	2430.9	2386.6	2333.4	2271.2	2209.1
65°	3025.4	3025.4	3007.6	2981.0	2950.0	2905.6	2856.8	2794.7	2728.2	2648.3	2564.0
62.5°	3575.4	3575.4	3548.8	3517.8	3477.8	3420.2	3353.6	3273.8	3180.6	3078.6	2976.6
60°	4214.2	4214.2	4183.2	4143.3	4085.6	4014.6	3925.9	3823.9	3708.5	3579.9	3455.7
57.5°	4950.6	4950.6	4910.7	4857.5	4786.5	4697.8	4586.9	4458.2	4311.8	4152.1	3996.9
55°	5749.1	5749.1	5700.3	5638.2	5553.9	5447.4	5314.4	5163.5	4986.1	4804.2	4604.6
52.5°	6596.4	6596.4	6538.7	6467.7	6370.1	6245.9	6095.1	5917.7	5713.6	5500.7	5265.6
50°	7488.0	7488.0	7421.5	7341.6	7230.7	7084.3	6911.3	6707.3	6481.0	6232.6	5962.0
47.5°	8441.8	8441.8	8366.4	8273.2	8140.1	7971.6	7767.5	7532.4	7275.1	6995.6	6689.5
45°	9422.1	9422.1	9337.8	9231.4	9085.0	8894.2	8668.0	8441.8	8113.5	7789.7	7434.8
42.5°	10442.4	10442.4	10344.8	10225.1	10056.5	9848.0	9590.7	9297.9	8974.1	8610.3	8224.4
40°	11502.6	11502.6	11391.7	11254.2	11067.9	10828.4	10540.0	10211.7	9848.0	9444.3	9018.5
37.5°	12585.0	12585.0	12460.8	12310.0	12101.5	11835.3	11511.5	11147.8	10739.6	10291.6	9821.4
35°	13676.3	13676.3	13538.8	13374.6	13144.0	12851.2	12500.7	12097.1	11644.6	11156.6	10628.7
32.5°	14789.7	14789.7	14638.9	14452.6	14190.9	13867.0	13481.1	13041.9	12585.0	12017.2	11440.5
30°	15889.9	15889.9	15725.7	15521.7	15242.2	14887.3	14465.9	13982.4	13445.6	12864.5	12243.5
27.5°	16972.3	16927.9	16790.4	16573.0	16266.9	15889.9	15433.0	14909.5	14328.4	13689.6	13024.2
25°	18036.9	17988.1	17837.3	17597.7	17269.5	16856.9	16364.5	15805.6	15180.1	14505.8	13778.3
22.5°	19057.2	19004.0	18844.3	18587.0	18236.5	17788.5	17260.6	16661.7	15996.3	15273.3	14505.8
20°	20002.1	19944.4	19780.3	19509.7	19145.9	18671.3	18112.3	17469.1	16759.3	15996.3	15180.1
17.5°	20853.8	20796.1	20623.1	20343.6	20002.1	19474.2	18897.5	18218.8	17469.1	16661.7	15805.6
15°	21603.5	21541.4	21363.9	21084.5	20694.1	20197.3	19589.5	18897.5	18112.3	17260.6	16364.5
12.5°	22242.3	22180.2	21998.3	21718.8	21315.1	20818.3	20197.3	19474.2	18671.3	17788.5	16856.9
10°	22748.0	22685.9	22512.9	22246.7	21829.7	21315.1	20694.1	20002.1	19145.9	18236.5	17269.5
7.5°	23111.7	23054.1	22894.4	22628.2	22246.7	21718.8	21084.5	20343.6	19509.7	18587.0	17597.7
5°	23386.8	23320.2	23160.5	22894.4	22512.9	21998.3	21363.9	20623.1	19780.3	18844.3	17837.3
2.5°	23577.5	23497.7	23320.2	23054.1	22685.9	22180.2	21541.4	20796.1	19944.4	19004.0	17988.1
0°	23630.7	23577.5	23386.8	23111.7	22748.0	22242.3	21603.5	20853.8	20002.1	19057.2	18036.9

REPORT NUMBER: P623910

CATALOG NUMBER: IFLD-S-SA6C-735-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°	159.7	159.7	155.3	150.8	146.4	137.5	133.1	128.6	124.2	115.3	110.9
85°	337.1	328.3	319.4	310.5	297.2	288.3	275.0	266.2	252.9	239.5	226.2
82.5°	532.3	519.0	501.3	488.0	470.2	448.0	430.3	408.1	385.9	368.2	346.0
80°	745.3	723.1	700.9	678.7	652.1	625.5	598.9	572.2	541.2	510.1	479.1
77.5°	975.9	944.9	913.8	878.3	847.3	811.8	776.3	740.8	700.9	661.0	621.0
75°	1233.2	1193.3	1148.9	1104.6	1064.6	1015.9	967.1	918.3	865.0	816.2	763.0
72.5°	1512.7	1463.9	1410.7	1357.4	1299.8	1237.7	1175.5	1109.0	1046.9	984.8	918.3
70°	1814.3	1756.7	1690.1	1623.6	1552.6	1477.2	1401.8	1321.9	1242.1	1162.2	1082.4
67.5°	2138.2	2067.2	1987.3	1907.5	1818.8	1730.1	1641.3	1548.2	1450.6	1353.0	1259.8
65°	2484.2	2395.5	2302.3	2200.3	2098.2	1996.2	1889.7	1778.8	1667.9	1552.6	1450.6
62.5°	2870.1	2759.2	2639.4	2515.2	2399.9	2275.7	2160.3	2022.8	1889.7	1761.1	1632.5
60°	3318.2	3171.8	3025.4	2870.1	2723.7	2564.0	2422.1	2271.2	2120.4	1974.0	1823.2
57.5°	3819.4	3633.1	3455.7	3269.4	3074.2	2896.7	2714.9	2533.0	2364.4	2191.4	2027.3
55°	4387.2	4161.0	3939.2	3708.5	3482.3	3260.5	3029.8	2825.8	2617.3	2422.1	2231.3
52.5°	5008.3	4751.0	4476.0	4214.2	3925.9	3650.9	3393.6	3136.3	2892.3	2657.2	2439.8
50°	5673.7	5372.0	5057.1	4737.7	4409.4	4085.6	3775.1	3473.4	3189.5	2914.5	2657.2
47.5°	6365.7	6024.1	5664.8	5301.1	4950.6	4555.8	4183.2	3841.6	3500.0	3189.5	2892.3
45°	7075.5	6689.5	6294.7	5882.2	5469.6	5043.8	4631.2	4214.2	3841.6	3473.4	3136.3
42.5°	7807.4	7372.7	6933.5	6476.6	6019.7	5553.9	5088.1	4631.2	4183.2	3775.1	3393.6
40°	8561.5	8082.5	7581.2	7084.3	6596.4	6064.1	5553.9	5043.8	4555.8	4085.6	3650.9
37.5°	9315.7	8792.2	8251.0	7692.1	7133.1	6596.4	6019.7	5469.6	4950.6	4409.4	3925.9
35°	10074.2	9497.5	8912.0	8304.3	7692.1	7084.3	6476.6	5882.2	5301.1	4737.7	4214.2
32.5°	10837.2	10207.3	9559.7	8912.0	8251.0	7581.2	6933.5	6294.7	5664.8	5057.1	4476.0
30°	11586.9	10903.8	10207.3	9497.5	8792.2	8082.5	7372.7	6689.5	6024.1	5372.0	4751.0
27.5°	12318.9	11586.9	10837.2	10074.2	9315.7	8561.5	7807.4	7075.5	6365.7	5673.7	5008.3
25°	13024.2	12243.5	11440.5	10628.7	9821.4	9018.5	8224.4	7434.8	6689.5	5962.0	5265.6
22.5°	13689.6	12864.5	12017.2	11156.6	10291.6	9444.3	8610.3	7789.7	6995.6	6232.6	5500.7
20°	14328.4	13445.6	12585.0	11644.6	10739.6	9848.0	8974.1	8113.5	7275.1	6481.0	5713.6
17.5°	14909.5	13982.4	13041.9	12097.1	11147.8	10211.7	9297.9	8441.8	7532.4	6707.3	5917.7
15°	15433.0	14465.9	13481.1	12500.7	11511.5	10540.0	9590.7	8668.0	7767.5	6911.3	6095.1
12.5°	15889.9	14887.3	13867.0	12851.2	11835.3	10828.4	9848.0	8894.2	7971.6	7084.3	6245.9
10°	16266.9	15242.2	14190.9	13144.0	12101.5	11067.9	10056.5	9085.0	8140.1	7230.7	6370.1
7.5°	16573.0	15521.7	14452.6	13374.6	12310.0	11254.2	10225.1	9231.4	8273.2	7341.6	6467.7
5°	16790.4	15725.7	14638.9	13538.8	12460.8	11391.7	10344.8	9337.8	8366.4	7421.5	6538.7
2.5°	16927.9	15889.9	14789.7	13676.3	12585.0	11502.6	10442.4	9422.1	8441.8	7488.0	6596.4
0°	16972.3	15889.9	14789.7	13676.3	12585.0	11502.6	10442.4	9422.1	8441.8	7488.0	6596.4

REPORT NUMBER: P623910

CATALOG NUMBER: IFLD-S-SA6C-735-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°	106.5	97.6	88.7	84.3	75.4	71.0	62.1	53.2	48.8	39.9	31.1
85°	212.9	195.2	181.9	168.6	155.3	137.5	124.2	110.9	93.2	79.8	62.1
82.5°	323.8	301.7	279.5	257.3	235.1	212.9	186.3	164.1	142.0	119.8	93.2
80°	448.0	412.6	381.5	350.4	319.4	288.3	252.9	221.8	186.3	155.3	124.2
77.5°	576.7	536.8	492.4	448.0	403.7	363.8	319.4	279.5	239.5	195.2	155.3
75°	714.2	661.0	612.2	554.5	501.3	443.6	390.4	337.1	288.3	239.5	186.3
72.5°	856.2	789.6	723.1	661.0	594.4	527.9	465.8	399.2	337.1	279.5	221.8
70°	1002.5	922.7	842.8	767.4	692.0	612.2	541.2	465.8	390.4	319.4	252.9
67.5°	1157.8	1064.6	971.5	873.9	789.6	700.9	612.2	527.9	443.6	363.8	288.3
65°	1326.4	1215.5	1100.1	998.1	887.2	789.6	692.0	594.4	501.3	403.7	319.4
62.5°	1499.4	1370.7	1242.1	1113.4	998.1	873.9	767.4	661.0	554.5	448.0	350.4
60°	1676.8	1530.4	1384.0	1242.1	1100.1	971.5	842.8	723.1	612.2	492.4	381.5
57.5°	1858.7	1694.6	1530.4	1370.7	1215.5	1064.6	922.7	789.6	661.0	536.8	412.6
55°	2045.0	1858.7	1676.8	1499.4	1326.4	1157.8	1002.5	856.2	714.2	576.7	448.0
52.5°	2231.3	2027.3	1823.2	1632.5	1450.6	1259.8	1082.4	918.3	763.0	621.0	479.1
50°	2422.1	2191.4	1974.0	1761.1	1552.6	1353.0	1162.2	984.8	816.2	661.0	510.1
47.5°	2617.3	2364.4	2120.4	1889.7	1667.9	1450.6	1242.1	1046.9	865.0	700.9	541.2
45°	2825.8	2533.0	2271.2	2022.8	1778.8	1548.2	1321.9	1109.0	918.3	740.8	572.2
42.5°	3029.8	2714.9	2422.1	2160.3	1889.7	1641.3	1401.8	1175.5	967.1	776.3	598.9
40°	3260.5	2896.7	2564.0	2275.7	1996.2	1730.1	1477.2	1237.7	1015.9	811.8	625.5
37.5°	3482.3	3074.2	2723.7	2399.9	2098.2	1818.8	1552.6	1299.8	1064.6	847.3	652.1
35°	3708.5	3269.4	2870.1	2515.2	2200.3	1907.5	1623.6	1357.4	1104.6	878.3	678.7
32.5°	3939.2	3455.7	3025.4	2639.4	2302.3	1987.3	1690.1	1410.7	1148.9	913.8	700.9
30°	4161.0	3633.1	3171.8	2759.2	2395.5	2067.2	1756.7	1463.9	1193.3	944.9	723.1
27.5°	4387.2	3819.4	3318.2	2870.1	2484.2	2138.2	1814.3	1512.7	1233.2	975.9	745.3
25°	4604.6	3996.9	3455.7	2976.6	2564.0	2209.1	1876.4	1561.5	1268.7	1002.5	763.0
22.5°	4804.2	4152.1	3579.9	3078.6	2648.3	2271.2	1929.7	1605.8	1304.2	1029.2	780.7
20°	4986.1	4311.8	3708.5	3180.6	2728.2	2333.4	1974.0	1645.8	1335.2	1051.3	798.5
17.5°	5163.5	4458.2	3823.9	3273.8	2794.7	2386.6	2018.4	1676.8	1361.9	1069.1	811.8
15°	5314.4	4586.9	3925.9	3353.6	2856.8	2430.9	2053.9	1707.9	1384.0	1086.8	820.7
12.5°	5447.4	4697.8	4014.6	3420.2	2905.6	2470.9	2089.4	1734.5	1406.2	1100.1	834.0
10°	5553.9	4786.5	4085.6	3477.8	2950.0	2501.9	2111.6	1756.7	1419.5	1113.4	842.8
7.5°	5638.2	4857.5	4143.3	3517.8	2981.0	2528.5	2133.7	1770.0	1432.8	1122.3	856.2
5°	5700.3	4910.7	4183.2	3548.8	3007.6	2559.6	2160.3	1792.2	1450.6	1135.6	856.2
2.5°	5749.1	4950.6	4214.2	3575.4	3025.4	2559.6	2160.3	1792.2	1450.6	1135.6	856.2
0°	5749.1	4950.6	4214.2	3575.4	3025.4	2559.6	2160.3	1792.2	1450.6	1135.6	856.2

REPORT NUMBER: P623910

CATALOG NUMBER: IFLD-S-SA6C-735-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	22.2	17.7	8.9	0.0
85°	48.8	31.1	17.7	0.0
82.5°	71.0	48.8	22.2	0.0
80°	93.2	62.1	31.1	0.0
77.5°	119.8	79.8	39.9	0.0
75°	142.0	93.2	48.8	0.0
72.5°	164.1	110.9	53.2	0.0
70°	186.3	124.2	62.1	0.0
67.5°	212.9	137.5	71.0	0.0
65°	235.1	155.3	75.4	0.0
62.5°	257.3	168.6	84.3	0.0
60°	279.5	181.9	88.7	0.0
57.5°	301.7	195.2	97.6	0.0
55°	323.8	212.9	106.5	0.0
52.5°	346.0	226.2	110.9	0.0
50°	368.2	239.5	115.3	0.0
47.5°	385.9	252.9	124.2	0.0
45°	408.1	266.2	128.6	0.0
42.5°	430.3	275.0	133.1	0.0
40°	448.0	288.3	137.5	0.0
37.5°	470.2	297.2	146.4	0.0
35°	488.0	310.5	150.8	0.0
32.5°	501.3	319.4	155.3	0.0
30°	519.0	328.3	159.7	0.0
27.5°	532.3	337.1	159.7	0.0
25°	545.6	346.0	164.1	0.0
22.5°	558.9	350.4	168.6	0.0
20°	572.2	359.3	173.0	0.0
17.5°	581.1	363.8	173.0	0.0
15°	590.0	368.2	181.9	0.0
12.5°	594.4	372.6	181.9	0.0
10°	603.3	381.5	181.9	0.0
7.5°	612.2	381.5	181.9	0.0
5°	612.2	381.5	181.9	0.0
2.5°	612.2	381.5	181.9	0.0
0°	612.2	381.5	181.9	0.0

(END OF REPORT)