

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: P628266

Luminaire Tested: **IFLD-S-SA2A-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628266  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

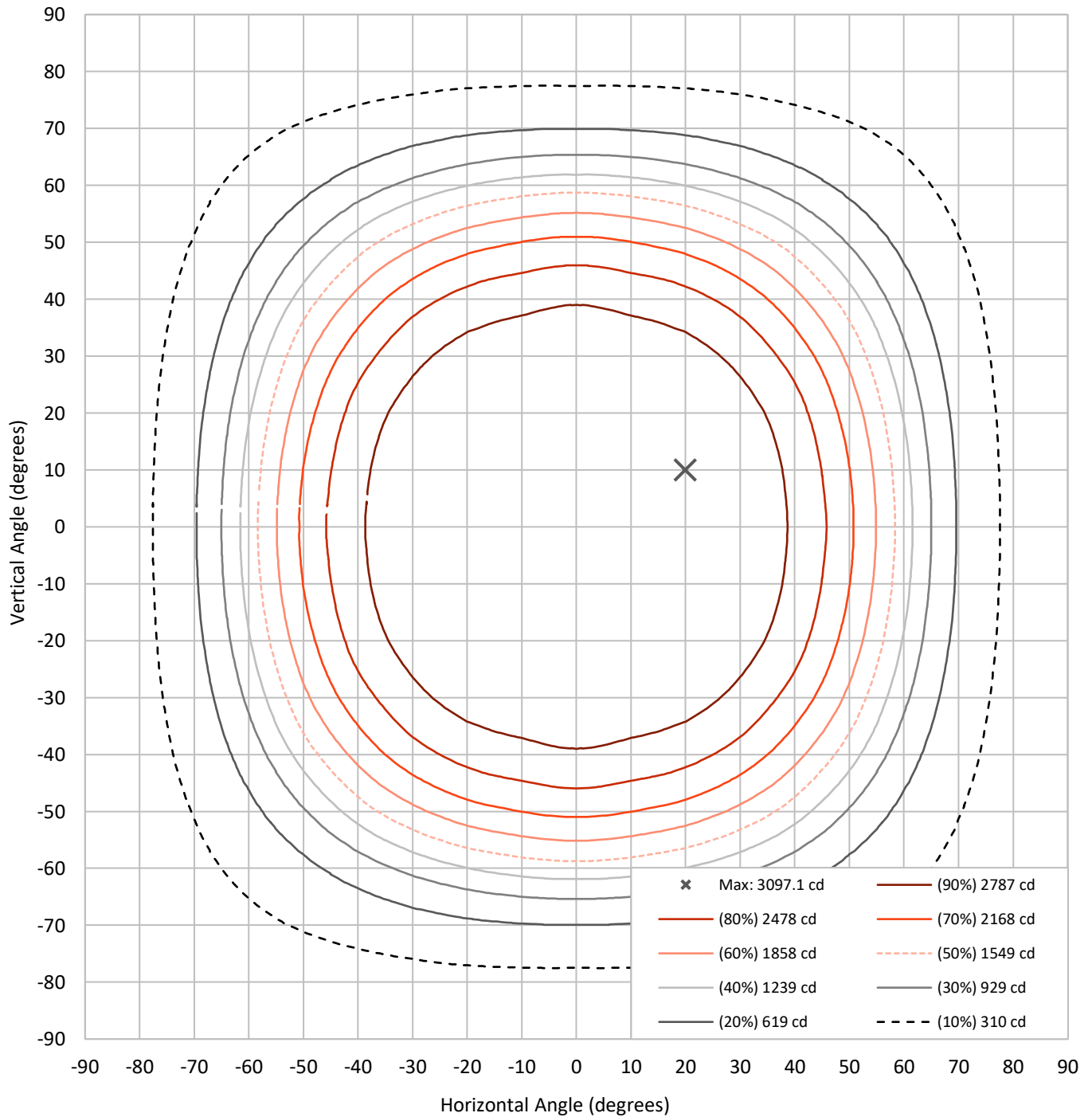
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9501.5 lumens	Max Intensity:	3097.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	148.9 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	5830.3 lumens	Field Lumens:	6989.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 63.8  
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: P628266  
CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

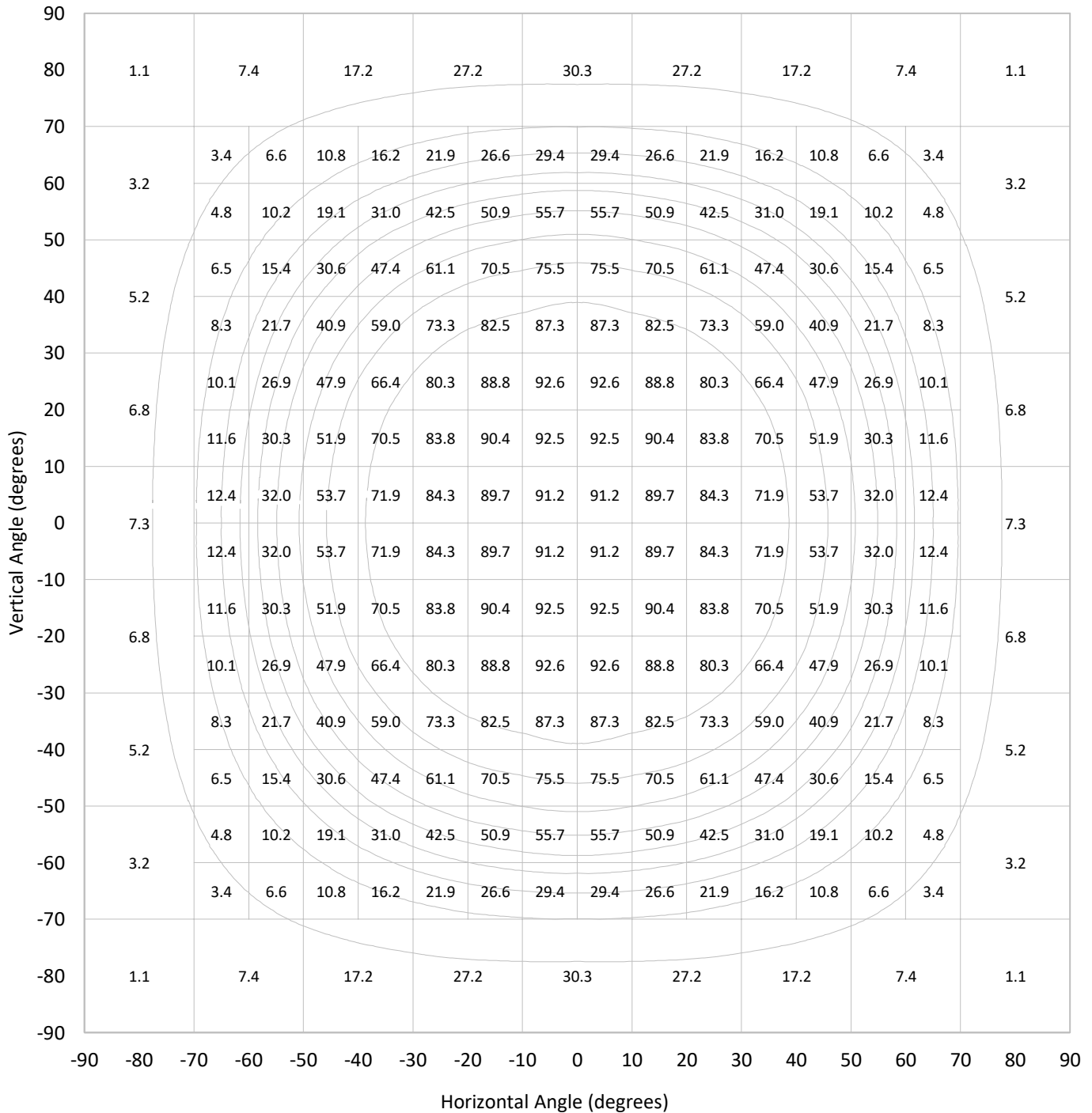
### Iso-Candela Plot





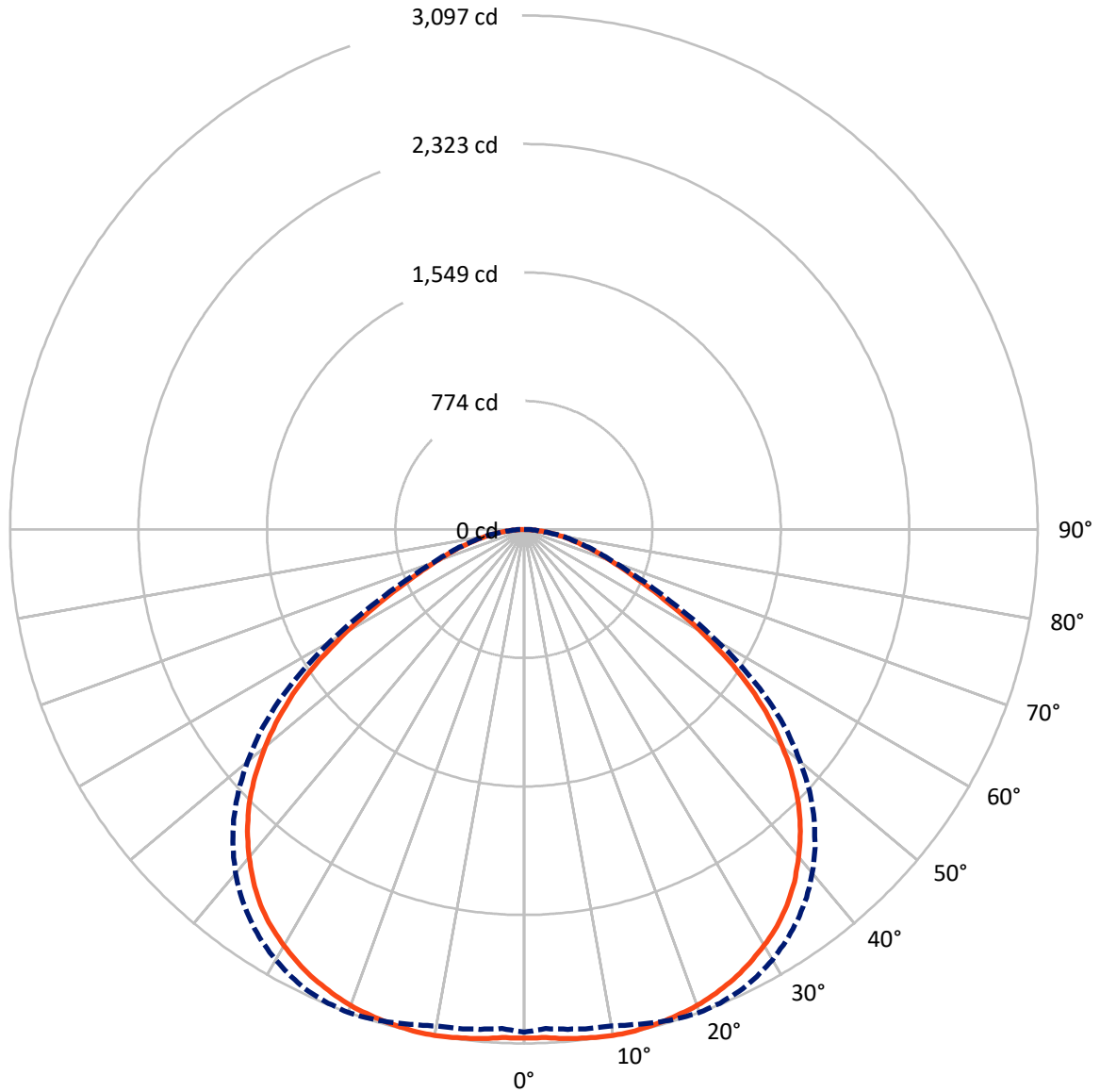
REPORT NUMBER: P628266  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

### Lumen Table



REPORT NUMBER: P628266  
CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

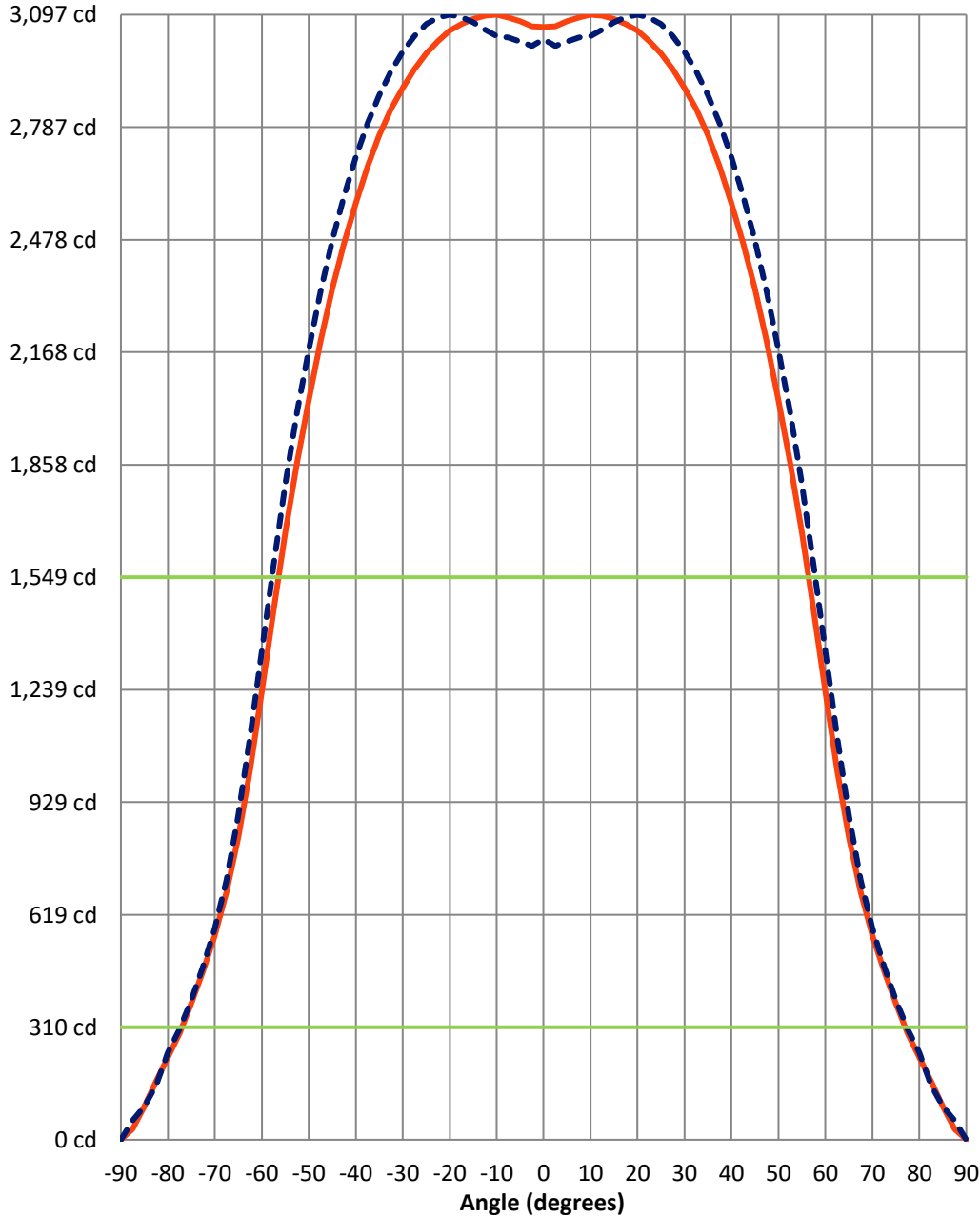
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg    - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628266  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 5830.3  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 6989.6  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2512  
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628266  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

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°	25.0	27.0	28.0	29.0	30.0	31.0	32.0	31.0	30.0	30.0	29.0
85°	67.0	69.0	70.0	77.0	84.0	88.0	93.0	92.0	92.0	91.0	90.0
82.5°	134.0	140.0	145.0	152.0	156.0	162.0	166.0	163.0	161.0	157.0	154.0
80°	237.9	239.9	240.9	241.9	236.9	235.9	233.9	230.9	226.9	221.9	216.9
77.5°	302.9	304.9	306.9	304.9	303.9	302.9	299.9	296.9	292.9	288.9	282.9
75°	400.9	400.9	400.9	397.9	395.9	392.9	387.9	382.9	375.9	367.9	358.9
72.5°	504.9	503.9	502.9	496.9	491.9	485.9	478.9	472.9	464.9	455.9	443.9
70°	613.8	615.8	616.8	608.8	602.8	594.8	585.8	574.8	562.8	549.8	532.8
67.5°	763.8	761.8	759.8	748.8	740.8	729.8	716.8	700.8	682.8	662.8	638.8
65°	949.7	952.7	946.7	935.7	920.7	902.7	882.7	859.8	832.8	802.8	768.8
62.5°	1174.7	1179.7	1172.7	1158.7	1139.7	1115.7	1087.7	1054.7	1017.7	975.7	933.7
60°	1430.6	1429.6	1416.6	1397.6	1372.6	1342.6	1311.6	1275.6	1233.6	1184.7	1133.7
57.5°	1665.5	1663.5	1647.5	1628.5	1603.5	1571.6	1538.6	1500.6	1456.6	1404.6	1345.6
55°	1876.5	1874.5	1858.5	1838.5	1812.5	1780.5	1750.5	1714.5	1671.5	1616.5	1553.6
52.5°	2063.4	2064.4	2050.4	2028.4	2000.4	1969.4	1940.4	1904.5	1863.5	1808.5	1747.5
50°	2235.4	2234.4	2219.4	2199.4	2173.4	2143.4	2114.4	2078.4	2035.4	1982.4	1923.5
47.5°	2395.3	2393.3	2376.3	2354.3	2327.3	2301.3	2274.4	2242.4	2197.4	2144.4	2085.4
45°	2529.3	2525.3	2508.3	2487.3	2461.3	2438.3	2414.3	2390.3	2342.3	2293.3	2237.4
42.5°	2644.2	2643.2	2626.3	2605.3	2579.3	2559.3	2537.3	2507.3	2467.3	2422.3	2367.3
40°	2754.2	2746.2	2729.2	2709.2	2685.2	2668.2	2646.2	2616.3	2577.3	2533.3	2480.3
37.5°	2836.2	2837.2	2819.2	2797.2	2776.2	2760.2	2740.2	2712.2	2678.2	2635.2	2582.3
35°	2914.2	2909.2	2894.2	2875.2	2856.2	2838.2	2817.2	2793.2	2765.2	2725.2	2675.2
32.5°	2965.2	2972.2	2954.2	2934.2	2923.2	2909.2	2887.2	2862.2	2837.2	2797.2	2752.2
30°	3021.1	3015.1	3001.1	2984.1	2976.2	2967.2	2948.2	2924.2	2895.2	2859.2	2817.2
27.5°	3060.1	3057.1	3040.1	3024.1	3020.1	3012.1	2997.1	2976.2	2947.2	2912.2	2873.2
25°	3077.1	3079.1	3063.1	3054.1	3054.1	3049.1	3037.1	3019.1	2990.1	2958.2	2920.2
22.5°	3085.1	3083.1	3072.1	3070.1	3075.1	3071.1	3066.1	3050.1	3024.1	2998.1	2966.2
20°	3090.1	3076.1	3066.1	3074.1	3080.1	3079.1	3075.1	3065.1	3053.1	3031.1	3003.1
17.5°	3079.1	3070.1	3058.1	3070.1	3083.1	3084.1	3080.1	3074.1	3071.1	3057.1	3032.1
15°	3052.1	3045.1	3047.1	3059.1	3074.1	3079.1	3082.1	3089.1	3085.1	3074.1	3052.1
12.5°	3034.1	3025.1	3034.1	3046.1	3054.1	3057.1	3081.1	3094.1	3094.1	3084.1	3070.1
10°	3029.1	3011.1	3023.1	3034.1	3038.1	3056.1	3076.1	3090.1	3097.1	3089.1	3071.1
7.5°	3019.1	3007.1	3012.1	3017.1	3040.1	3053.1	3064.1	3079.1	3089.1	3088.1	3072.1
5°	3014.1	2999.1	3001.1	3022.1	3038.1	3047.1	3051.1	3064.1	3079.1	3082.1	3070.1
2.5°	3001.1	2994.1	3009.1	3011.1	3023.1	3030.1	3034.1	3046.1	3065.1	3072.1	3067.1
0°	2994.1	2984.1	2974.2	2982.1	3002.1	3017.1	3023.1	3041.1	3063.1	3070.1	3059.1



REPORT NUMBER: P628266  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

**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°	28.0	27.0	26.0	25.0	26.0	26.0	26.0	25.0	26.0	25.0	25.0
85°	87.0	83.0	80.0	76.0	72.0	69.0	65.0	61.0	60.0	59.0	57.0
82.5°	150.0	145.0	140.0	134.0	128.0	121.0	114.0	106.0	104.0	102.0	99.0
80°	210.9	203.9	196.9	189.9	183.9	176.9	169.0	160.0	154.0	149.0	143.0
77.5°	274.9	264.9	254.9	242.9	235.9	228.9	220.9	211.9	202.9	194.9	185.9
75°	347.9	336.9	326.9	314.9	301.9	288.9	275.9	263.9	250.9	238.9	226.9
72.5°	428.9	412.9	396.9	381.9	365.9	349.9	332.9	316.9	300.9	284.9	267.9
70°	513.9	493.9	473.9	453.9	432.9	411.9	391.9	371.9	351.9	330.9	311.9
67.5°	613.8	590.8	564.8	536.8	505.9	478.9	452.9	428.9	404.9	380.9	356.9
65°	738.8	706.8	671.8	633.8	597.8	561.8	523.9	487.9	459.9	431.9	404.9
62.5°	892.7	847.8	798.8	749.8	705.8	658.8	614.8	567.8	523.9	483.9	450.9
60°	1076.7	1015.7	955.7	892.7	831.8	767.8	711.8	653.8	598.8	549.8	501.9
57.5°	1279.6	1208.7	1136.7	1059.7	976.7	901.7	825.8	749.8	684.8	619.8	565.8
55°	1485.6	1410.6	1329.6	1242.6	1151.7	1055.7	952.7	867.8	778.8	702.8	632.8
52.5°	1681.5	1603.5	1519.6	1439.6	1330.6	1220.7	1107.7	995.7	891.7	794.8	709.8
50°	1856.5	1780.5	1699.5	1606.5	1505.6	1388.6	1262.6	1136.7	1013.7	899.7	793.8
47.5°	2016.4	1942.4	1861.5	1768.5	1676.5	1546.6	1419.6	1280.6	1143.7	1012.7	888.7
45°	2166.4	2091.4	2007.4	1918.5	1812.5	1696.5	1565.6	1425.6	1278.6	1131.7	988.7
42.5°	2302.3	2227.4	2142.4	2050.4	1945.4	1830.5	1703.5	1562.6	1414.6	1254.6	1097.7
40°	2421.3	2348.3	2266.4	2170.4	2072.4	1951.4	1826.5	1692.5	1539.6	1378.6	1205.7
37.5°	2525.3	2457.3	2376.3	2281.3	2177.4	2069.4	1940.4	1806.5	1668.5	1493.6	1316.6
35°	2617.3	2554.3	2471.3	2381.3	2279.4	2165.4	2044.4	1913.5	1764.5	1600.5	1428.6
32.5°	2697.2	2633.2	2557.3	2467.3	2368.3	2261.4	2137.4	2005.4	1864.5	1697.5	1510.6
30°	2765.2	2703.2	2631.2	2546.3	2451.3	2345.3	2224.4	2091.4	1947.4	1781.5	1596.5
27.5°	2824.2	2765.2	2695.2	2616.3	2525.3	2423.3	2301.3	2167.4	2020.4	1860.5	1675.5
25°	2875.2	2818.2	2753.2	2678.2	2588.3	2488.3	2373.3	2233.4	2086.4	1925.5	1742.5
22.5°	2921.2	2866.2	2801.2	2728.2	2646.2	2546.3	2430.3	2291.3	2142.4	1983.4	1803.5
20°	2962.2	2911.2	2847.2	2772.2	2690.2	2589.3	2474.3	2342.3	2192.4	2036.4	1858.5
17.5°	2995.1	2950.2	2886.2	2807.2	2725.2	2627.3	2515.3	2394.3	2235.4	2081.4	1904.5
15°	3018.1	2974.2	2916.2	2836.2	2756.2	2659.2	2547.3	2422.3	2274.4	2117.4	1942.4
12.5°	3034.1	2987.1	2933.2	2859.2	2779.2	2683.2	2574.3	2451.3	2307.3	2149.4	1975.4
10°	3038.1	2995.1	2941.2	2875.2	2797.2	2704.2	2597.3	2475.3	2334.3	2174.4	2002.4
7.5°	3040.1	2999.1	2950.2	2887.2	2810.2	2720.2	2614.3	2494.3	2354.3	2195.4	2022.4
5°	3039.1	3000.1	2956.2	2895.2	2818.2	2729.2	2625.3	2507.3	2368.3	2209.4	2037.4
2.5°	3036.1	3001.1	2960.2	2901.2	2827.2	2739.2	2636.2	2522.3	2383.3	2221.4	2049.4
0°	3044.1	3014.1	2962.2	2899.2	2829.2	2739.2	2635.2	2524.3	2385.3	2220.4	2048.4





REPORT NUMBER: P628266  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

**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°	25.0	24.0	24.0	23.0	22.0	21.0	19.0	18.0	16.0	13.0	10.0
85°	54.0	51.0	48.0	46.0	44.0	42.0	39.0	36.0	32.0	26.0	20.0
82.5°	95.0	89.0	83.0	76.0	70.0	64.0	59.0	54.0	48.0	39.0	30.0
80°	136.0	127.0	118.0	108.0	99.0	89.0	80.0	72.0	64.0	52.0	40.0
77.5°	176.9	165.0	152.0	140.0	127.0	114.0	101.0	90.0	78.0	64.0	50.0
75°	214.9	200.9	188.9	172.0	156.0	139.0	122.0	107.0	92.0	75.0	60.0
72.5°	252.9	234.9	217.9	201.9	183.9	163.0	144.0	125.0	106.0	86.0	68.0
70°	290.9	268.9	247.9	228.9	208.9	187.9	165.0	143.0	120.0	96.0	75.0
67.5°	329.9	304.9	280.9	256.9	233.9	209.9	185.9	161.0	134.0	106.0	83.0
65°	372.9	341.9	312.9	285.9	258.9	232.9	205.9	178.9	149.0	117.0	90.0
62.5°	415.9	381.9	347.9	313.9	283.9	254.9	225.9	195.9	163.0	129.0	97.0
60°	461.9	422.9	383.9	345.9	308.9	276.9	244.9	212.9	177.9	140.0	104.0
57.5°	512.9	465.9	421.9	378.9	336.9	298.9	263.9	229.9	190.9	151.0	112.0
55°	570.8	512.9	460.9	412.9	366.9	320.9	282.9	247.9	205.9	162.0	121.0
52.5°	631.8	564.8	501.9	447.9	398.9	346.9	300.9	261.9	220.9	173.0	129.0
50°	702.8	617.8	547.8	481.9	426.9	372.9	319.9	277.9	235.9	185.9	137.0
47.5°	775.8	681.8	593.8	521.9	456.9	397.9	341.9	291.9	249.9	197.9	145.0
45°	860.8	742.8	645.8	560.8	485.9	423.9	363.9	306.9	261.9	209.9	153.0
42.5°	942.7	814.8	699.8	603.8	518.9	448.9	383.9	322.9	273.9	221.9	160.0
40°	1039.7	886.7	751.8	644.8	551.8	472.9	403.9	339.9	284.9	232.9	167.0
37.5°	1132.7	959.7	814.8	689.8	583.8	496.9	423.9	355.9	294.9	243.9	175.9
35°	1224.7	1040.7	874.8	731.8	616.8	523.9	443.9	370.9	304.9	252.9	183.9
32.5°	1312.6	1116.7	935.7	778.8	652.8	548.8	461.9	384.9	314.9	260.9	191.9
30°	1394.6	1188.7	995.7	826.8	685.8	571.8	478.9	398.9	326.9	267.9	199.9
27.5°	1469.6	1258.6	1055.7	871.8	716.8	592.8	496.9	411.9	336.9	274.9	206.9
25°	1537.6	1321.6	1110.7	912.7	744.8	615.8	513.9	424.9	345.9	280.9	212.9
22.5°	1601.5	1379.6	1160.7	953.7	778.8	638.8	529.8	436.9	354.9	286.9	218.9
20°	1657.5	1432.6	1208.7	994.7	808.8	659.8	543.8	447.9	362.9	290.9	224.9
17.5°	1702.5	1479.6	1251.6	1030.7	834.8	677.8	555.8	457.9	369.9	295.9	228.9
15°	1742.5	1519.6	1287.6	1061.7	857.8	692.8	566.8	465.9	375.9	298.9	233.9
12.5°	1776.5	1553.6	1318.6	1088.7	877.7	705.8	575.8	471.9	380.9	301.9	236.9
10°	1804.5	1580.5	1344.6	1109.7	893.7	715.8	582.8	477.9	384.9	304.9	239.9
7.5°	1825.5	1600.5	1363.6	1127.7	906.7	722.8	588.8	481.9	388.9	306.9	244.9
5°	1841.5	1617.5	1378.6	1139.7	916.7	732.8	595.8	486.9	392.9	308.9	244.9
2.5°	1853.5	1631.5	1390.6	1149.7	924.7	730.8	595.8	485.9	392.9	308.9	243.9
0°	1851.5	1632.5	1389.6	1149.7	924.7	728.8	595.8	484.9	392.9	308.9	243.9



REPORT NUMBER: P628266  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.0	5.0	2.0	0.0
85°	15.0	10.0	5.0	0.0
82.5°	22.0	14.0	7.0	0.0
80°	29.0	19.0	9.0	0.0
77.5°	37.0	24.0	12.0	0.0
75°	44.0	28.0	14.0	0.0
72.5°	51.0	33.0	16.0	0.0
70°	57.0	37.0	18.0	0.0
67.5°	63.0	42.0	21.0	0.0
65°	68.0	46.0	23.0	0.0
62.5°	72.0	51.0	25.0	0.0
60°	77.0	55.0	27.0	0.0
57.5°	81.0	58.0	29.0	0.0
55°	85.0	60.0	31.0	0.0
52.5°	89.0	63.0	33.0	0.0
50°	93.0	66.0	35.0	0.0
47.5°	97.0	68.0	36.0	0.0
45°	103.0	71.0	38.0	0.0
42.5°	108.0	73.0	40.0	0.0
40°	113.0	75.0	41.0	0.0
37.5°	118.0	77.0	43.0	0.0
35°	123.0	79.0	44.0	0.0
32.5°	127.0	81.0	45.0	0.0
30°	131.0	83.0	46.0	0.0
27.5°	135.0	84.0	47.0	0.0
25°	138.0	86.0	48.0	0.0
22.5°	141.0	87.0	49.0	0.0
20°	143.0	88.0	50.0	0.0
17.5°	146.0	89.0	51.0	0.0
15°	147.0	90.0	53.0	0.0
12.5°	149.0	91.0	53.0	0.0
10°	150.0	92.0	53.0	0.0
7.5°	152.0	92.0	53.0	0.0
5°	151.0	92.0	53.0	0.0
2.5°	151.0	92.0	53.0	0.0
0°	150.0	92.0	53.0	0.0

(END OF REPORT)