

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: P628180

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

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628180  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-727-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

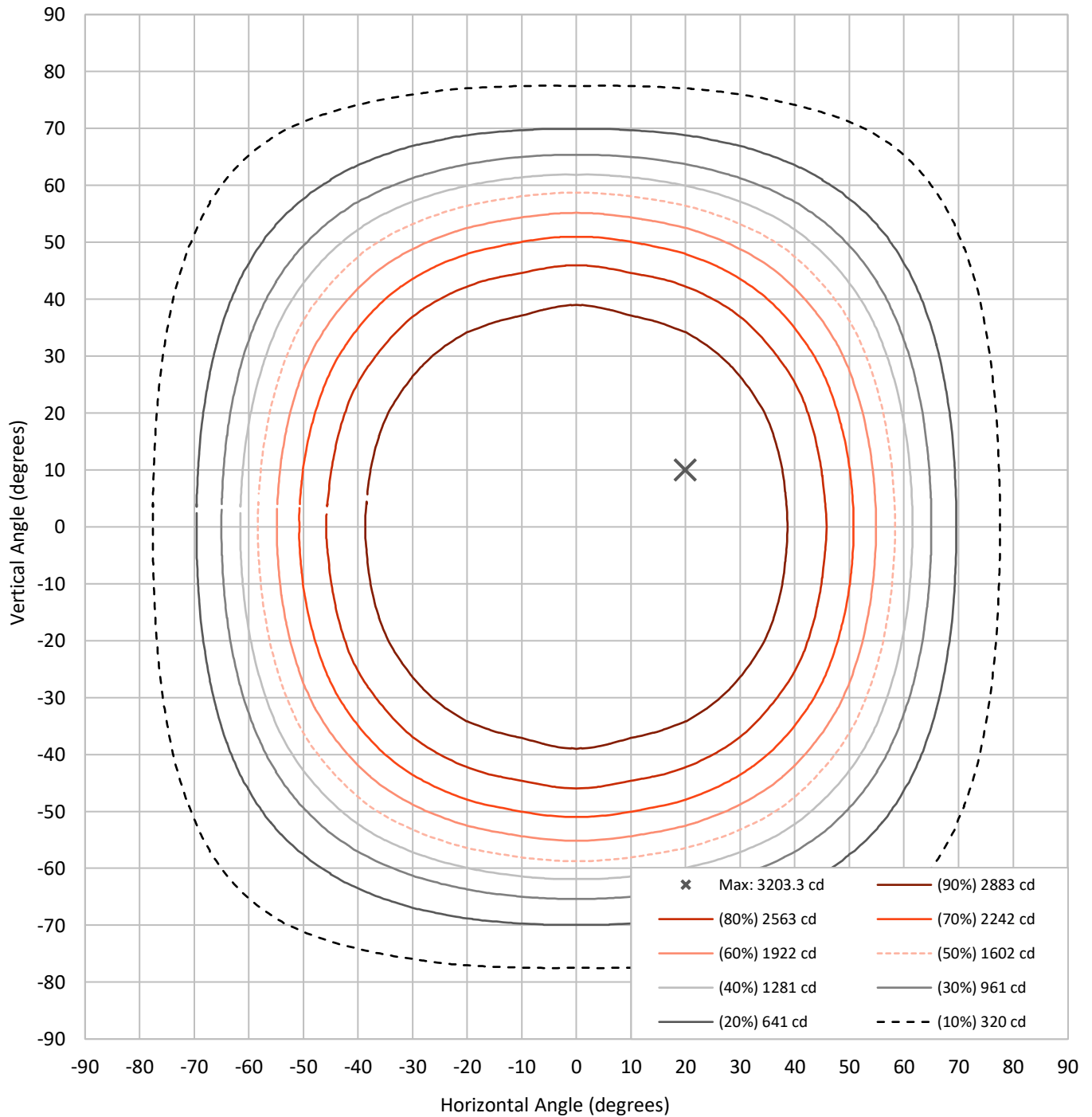
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9827.2 lumens	Max Intensity:	3203.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	119.3 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	6030.2 lumens	Field Lumens:	7229.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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: P628180  
CATALOG NUMBER: IFLD-S-SA2B-727-U-LAM

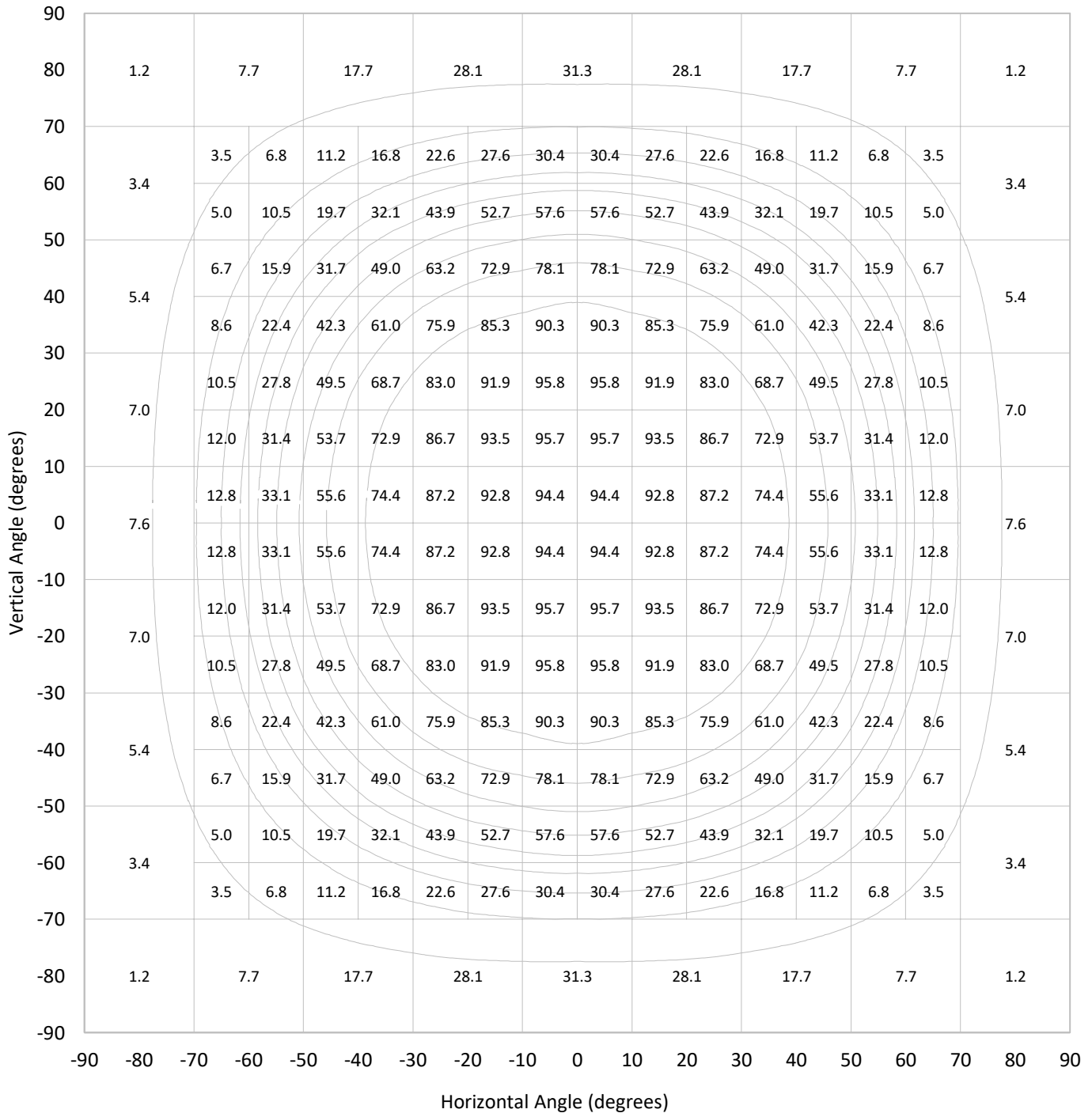
### Iso-Candela Plot





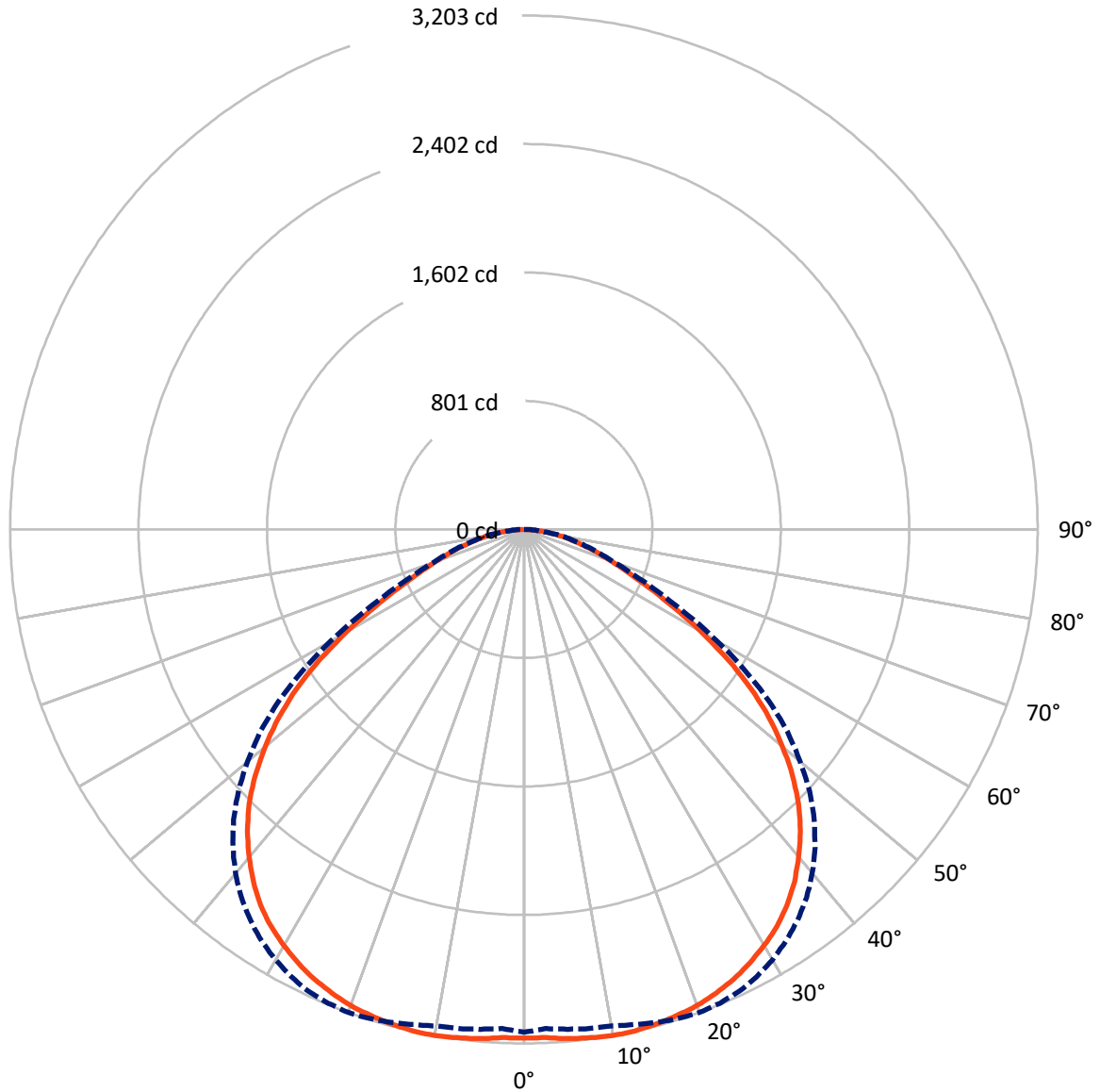
REPORT NUMBER: P628180  
 CATALOG NUMBER: IFLD-S-SA2B-727-U-LAM

### Lumen Table



REPORT NUMBER: P628180  
CATALOG NUMBER: IFLD-S-SA2B-727-U-LAM

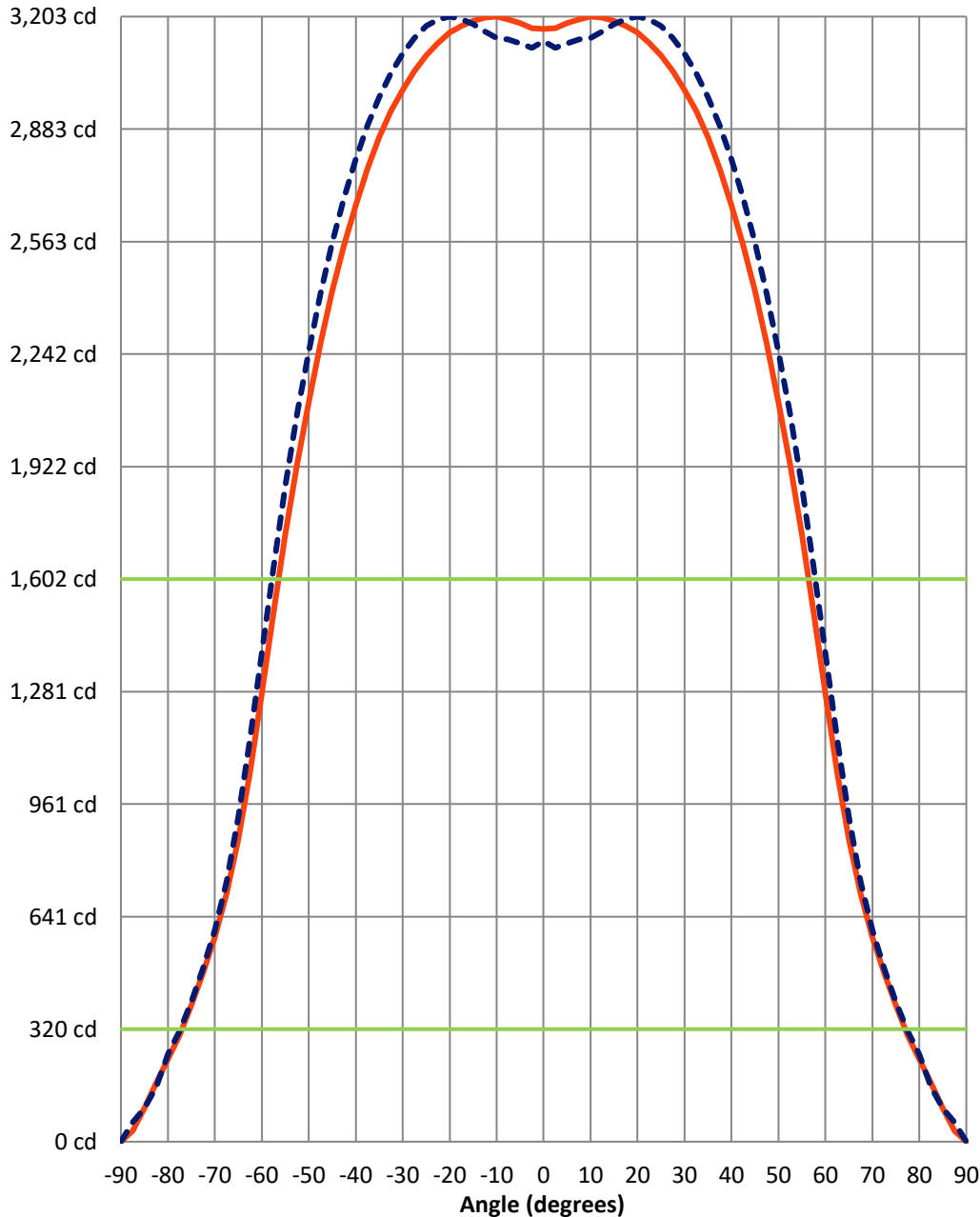
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628180  
 CATALOG NUMBER: IFLD-S-SA2B-727-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 6030.2  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 7229.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 2598.1  
 Efficiency: 26.4%

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



REPORT NUMBER: P628180  
 CATALOG NUMBER: IFLD-S-SA2B-727-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°	25.8	27.9	29.0	30.0	31.0	32.1	33.1	32.1	31.0	31.0	30.0
85°	69.3	71.3	72.4	79.6	86.9	91.0	96.2	95.1	95.1	94.1	93.1
82.5°	138.6	144.8	149.9	157.2	161.3	167.5	171.6	168.5	166.5	162.3	159.2
80°	246.1	248.2	249.2	250.2	245.1	244.0	242.0	238.9	234.7	229.5	224.4
77.5°	313.3	315.4	317.4	315.4	314.3	313.3	310.2	307.1	303.0	298.8	292.6
75°	414.6	414.6	414.6	411.5	409.5	406.4	401.2	396.0	388.8	380.5	371.2
72.5°	522.2	521.1	520.1	513.9	508.7	502.5	495.3	489.1	480.8	471.5	459.1
70°	634.9	636.9	638.0	629.7	623.5	615.2	605.9	594.5	582.1	568.7	551.1
67.5°	790.0	787.9	785.8	774.5	766.2	754.8	741.4	724.8	706.2	685.5	660.7
65°	982.3	985.4	979.2	967.8	952.3	933.7	913.0	889.2	861.3	830.3	795.1
62.5°	1214.9	1220.1	1212.9	1198.4	1178.7	1153.9	1125.0	1090.9	1052.6	1009.2	965.7
60°	1479.6	1478.6	1465.2	1445.5	1419.7	1388.6	1356.6	1319.4	1275.9	1225.3	1172.5
57.5°	1722.6	1720.5	1704.0	1684.4	1658.5	1625.4	1591.3	1552.0	1506.5	1452.7	1391.7
55°	1940.8	1938.7	1922.2	1901.5	1874.6	1841.5	1810.5	1773.3	1728.8	1672.0	1606.8
52.5°	2134.1	2135.2	2120.7	2098.0	2069.0	2036.9	2007.0	1969.7	1927.3	1870.5	1807.4
50°	2312.0	2311.0	2295.4	2274.8	2247.9	2216.9	2186.9	2149.7	2105.2	2050.4	1989.4
47.5°	2477.4	2475.4	2457.8	2435.0	2407.1	2380.2	2352.3	2319.2	2272.7	2217.9	2156.9
45°	2616.0	2611.8	2594.3	2572.6	2545.7	2521.9	2497.1	2472.3	2422.6	2372.0	2314.1
42.5°	2734.9	2733.9	2716.3	2694.6	2667.7	2647.0	2624.2	2593.2	2551.9	2505.3	2448.5
40°	2848.6	2840.4	2822.8	2802.1	2777.3	2759.7	2737.0	2705.9	2665.6	2620.1	2565.3
37.5°	2933.4	2934.4	2915.8	2893.1	2871.4	2854.8	2834.1	2805.2	2770.0	2725.6	2670.8
35°	3014.1	3008.9	2993.4	2973.7	2954.1	2935.5	2913.8	2888.9	2860.0	2818.6	2766.9
32.5°	3066.8	3074.0	3055.4	3034.7	3023.4	3008.9	2986.1	2960.3	2934.4	2893.1	2846.6
30°	3124.7	3118.5	3104.0	3086.4	3078.2	3068.9	3049.2	3024.4	2994.4	2957.2	2913.8
27.5°	3165.0	3161.9	3144.3	3127.8	3123.7	3115.4	3099.9	3078.2	3048.2	3012.0	2971.7
25°	3182.6	3184.7	3168.1	3158.8	3158.8	3153.6	3141.2	3122.6	3092.6	3059.6	3020.3
22.5°	3190.9	3188.8	3177.4	3175.4	3180.5	3176.4	3171.2	3154.7	3127.8	3100.9	3067.8
20°	3196.0	3181.6	3171.2	3179.5	3185.7	3184.7	3180.5	3170.2	3157.8	3135.0	3106.1
17.5°	3184.7	3175.4	3163.0	3175.4	3188.8	3189.8	3185.7	3179.5	3176.4	3161.9	3136.1
15°	3156.8	3149.5	3151.6	3164.0	3179.5	3184.7	3187.8	3195.0	3190.9	3179.5	3156.8
12.5°	3138.1	3128.8	3138.1	3150.5	3158.8	3161.9	3186.7	3200.2	3200.2	3189.8	3175.4
10°	3133.0	3114.4	3126.8	3138.1	3142.3	3160.9	3181.6	3196.0	3203.3	3195.0	3176.4
7.5°	3122.6	3110.2	3115.4	3120.6	3144.3	3157.8	3169.2	3184.7	3195.0	3194.0	3177.4
5°	3117.5	3101.9	3104.0	3125.7	3142.3	3151.6	3155.7	3169.2	3184.7	3187.8	3175.4
2.5°	3104.0	3096.8	3112.3	3114.4	3126.8	3134.0	3138.1	3150.5	3170.2	3177.4	3172.3
0°	3096.8	3086.4	3076.1	3084.4	3105.1	3120.6	3126.8	3145.4	3168.1	3175.4	3164.0



REPORT NUMBER: P628180  
 CATALOG NUMBER: IFLD-S-SA2B-727-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°	29.0	27.9	26.9	25.8	26.9	26.9	26.9	25.8	26.9	25.8	25.8
85°	90.0	85.8	82.7	78.6	74.4	71.3	67.2	63.1	62.0	61.0	58.9
82.5°	155.1	149.9	144.8	138.6	132.3	125.1	117.9	109.6	107.5	105.5	102.4
80°	218.2	210.9	203.7	196.5	190.3	183.0	174.7	165.4	159.2	154.1	147.9
77.5°	284.3	274.0	263.7	251.3	244.0	236.8	228.5	219.2	209.9	201.6	192.3
75°	359.8	348.5	338.1	325.7	312.3	298.8	285.4	273.0	259.5	247.1	234.7
72.5°	443.6	427.0	410.5	395.0	378.4	361.9	344.3	327.8	311.2	294.7	277.1
70°	531.5	510.8	490.1	469.4	447.7	426.0	405.3	384.6	364.0	342.2	322.6
67.5°	634.9	611.1	584.2	555.2	523.2	495.3	468.4	443.6	418.8	393.9	369.1
65°	764.1	731.0	694.8	655.5	618.3	581.1	541.8	504.6	475.6	446.7	418.8
62.5°	923.3	876.8	826.2	775.5	730.0	681.4	635.9	587.3	541.8	500.4	466.3
60°	1113.6	1050.5	988.5	923.3	860.3	794.1	736.2	676.2	619.4	568.7	519.1
57.5°	1323.5	1250.1	1175.6	1096.0	1010.2	932.7	854.1	775.5	708.3	641.1	585.2
55°	1536.5	1459.0	1375.2	1285.2	1191.1	1091.9	985.4	897.5	805.5	726.9	654.5
52.5°	1739.2	1658.5	1571.7	1488.9	1376.2	1262.5	1145.7	1029.8	922.3	822.0	734.1
50°	1920.1	1841.5	1757.8	1661.6	1557.2	1436.2	1305.9	1175.6	1048.5	930.6	821.0
47.5°	2085.5	2009.0	1925.3	1829.1	1734.0	1599.6	1468.3	1324.5	1182.9	1047.4	919.2
45°	2240.6	2163.1	2076.2	1984.2	1874.6	1754.7	1619.2	1474.5	1322.5	1170.5	1022.6
42.5°	2381.3	2303.7	2215.8	2120.7	2012.1	1893.2	1761.9	1616.1	1463.1	1297.6	1135.3
40°	2504.3	2428.8	2344.0	2244.8	2143.4	2018.3	1889.1	1750.5	1592.3	1425.9	1247.0
37.5°	2611.8	2541.5	2457.8	2359.5	2252.0	2140.3	2007.0	1868.4	1725.7	1544.8	1361.8
35°	2707.0	2641.8	2556.0	2462.9	2357.5	2239.6	2114.5	1979.0	1825.0	1655.4	1477.6
32.5°	2789.7	2723.5	2644.9	2551.9	2449.5	2338.9	2210.7	2074.2	1928.4	1755.7	1562.3
30°	2860.0	2795.9	2721.4	2633.6	2535.3	2425.7	2300.6	2163.1	2014.2	1842.6	1651.3
27.5°	2921.0	2860.0	2787.6	2705.9	2611.8	2506.4	2380.2	2241.7	2089.7	1924.2	1733.0
25°	2973.7	2914.8	2847.6	2770.0	2677.0	2573.6	2454.7	2309.9	2157.9	1991.5	1802.2
22.5°	3021.3	2964.4	2897.2	2821.7	2737.0	2633.6	2513.6	2369.9	2215.8	2051.4	1865.3
20°	3063.7	3011.0	2944.8	2867.2	2782.4	2678.0	2559.1	2422.6	2267.5	2106.2	1922.2
17.5°	3097.8	3051.3	2985.1	2903.4	2818.6	2717.3	2601.5	2476.4	2312.0	2152.8	1969.7
15°	3121.6	3076.1	3016.1	2933.4	2850.7	2750.4	2634.6	2505.3	2352.3	2190.0	2009.0
12.5°	3138.1	3089.5	3033.7	2957.2	2874.5	2775.2	2662.5	2535.3	2386.4	2223.1	2043.2
10°	3142.3	3097.8	3042.0	2973.7	2893.1	2796.9	2686.3	2560.1	2414.4	2248.9	2071.1
7.5°	3144.3	3101.9	3051.3	2986.1	2906.5	2813.5	2703.9	2579.8	2435.0	2270.6	2091.7
5°	3143.3	3103.0	3057.5	2994.4	2914.8	2822.8	2715.2	2593.2	2449.5	2285.1	2107.3
2.5°	3140.2	3104.0	3061.6	3000.6	2924.1	2833.1	2726.6	2608.7	2465.0	2297.5	2119.7
0°	3148.5	3117.5	3063.7	2998.6	2926.2	2833.1	2725.6	2610.8	2467.1	2296.5	2118.6





REPORT NUMBER: P628180  
 CATALOG NUMBER: IFLD-S-SA2B-727-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°	25.8	24.8	24.8	23.8	22.7	21.7	19.6	18.6	16.5	13.4	10.3
85°	55.8	52.7	49.6	47.6	45.5	43.4	40.3	37.2	33.1	26.9	20.7
82.5°	98.2	92.0	85.8	78.6	72.4	66.2	61.0	55.8	49.6	40.3	31.0
80°	140.6	131.3	122.0	111.7	102.4	92.0	82.7	74.4	66.2	53.8	41.4
77.5°	183.0	170.6	157.2	144.8	131.3	117.9	104.4	93.1	80.7	66.2	51.7
75°	222.3	207.8	195.4	177.8	161.3	143.7	126.1	110.6	95.1	77.5	62.0
72.5°	261.6	243.0	225.4	208.9	190.3	168.5	148.9	129.2	109.6	88.9	70.3
70°	300.9	278.1	256.4	236.8	216.1	194.4	170.6	147.9	124.1	99.3	77.5
67.5°	341.2	315.4	290.5	265.7	242.0	217.1	192.3	166.5	138.6	109.6	85.8
65°	385.7	353.6	323.6	295.7	267.8	240.9	213.0	185.1	154.1	121.0	93.1
62.5°	430.1	395.0	359.8	324.7	293.7	263.7	233.7	202.7	168.5	133.4	100.3
60°	477.7	437.4	397.0	357.8	319.5	286.4	253.3	220.2	184.0	144.8	107.5
57.5°	530.4	481.8	436.3	391.9	348.5	309.2	273.0	237.8	197.5	156.1	115.8
55°	590.4	530.4	476.7	427.0	379.5	331.9	292.6	256.4	213.0	167.5	125.1
52.5°	653.5	584.2	519.1	463.2	412.6	358.8	311.2	270.9	228.5	178.9	133.4
50°	726.9	639.0	566.6	498.4	441.5	385.7	330.9	287.4	244.0	192.3	141.7
47.5°	802.4	705.2	614.2	539.7	472.5	411.5	353.6	301.9	258.5	204.7	149.9
45°	890.3	768.2	668.0	580.1	502.5	438.4	376.4	317.4	270.9	217.1	158.2
42.5°	975.0	842.7	723.8	624.5	536.6	464.3	397.0	334.0	283.3	229.5	165.4
40°	1075.3	917.1	777.6	666.9	570.8	489.1	417.7	351.6	294.7	240.9	172.7
37.5°	1171.5	992.6	842.7	713.4	603.8	513.9	438.4	368.1	305.0	252.3	182.0
35°	1266.6	1076.4	904.7	756.9	638.0	541.8	459.1	383.6	315.4	261.6	190.3
32.5°	1357.6	1155.0	967.8	805.5	675.2	567.7	477.7	398.1	325.7	269.9	198.5
30°	1442.4	1229.4	1029.8	855.1	709.3	591.4	495.3	412.6	338.1	277.1	206.8
27.5°	1520.0	1301.8	1091.9	901.6	741.4	613.2	513.9	426.0	348.5	284.3	214.0
25°	1590.3	1366.9	1148.8	944.0	770.3	636.9	531.5	439.4	357.8	290.5	220.2
22.5°	1656.4	1426.9	1200.5	986.4	805.5	660.7	548.0	451.9	367.1	296.8	226.4
20°	1714.3	1481.7	1250.1	1028.8	836.5	682.4	562.5	463.2	375.3	300.9	232.6
17.5°	1760.9	1530.3	1294.5	1066.0	863.4	701.0	574.9	473.6	382.6	306.1	236.8
15°	1802.2	1571.7	1331.8	1098.1	887.2	716.6	586.3	481.8	388.8	309.2	242.0
12.5°	1837.4	1606.8	1363.8	1126.0	907.8	730.0	595.6	488.0	393.9	312.3	245.1
10°	1866.3	1634.7	1390.7	1147.7	924.4	740.3	602.8	494.2	398.1	315.4	248.2
7.5°	1888.1	1655.4	1410.4	1166.3	937.8	747.6	609.0	498.4	402.2	317.4	253.3
5°	1904.6	1673.0	1425.9	1178.7	948.2	757.9	616.3	503.5	406.4	319.5	253.3
2.5°	1917.0	1687.5	1438.3	1189.1	956.4	755.8	616.3	502.5	406.4	319.5	252.3
0°	1914.9	1688.5	1437.2	1189.1	956.4	753.8	616.3	501.5	406.4	319.5	252.3



REPORT NUMBER: P628180  
 CATALOG NUMBER: IFLD-S-SA2B-727-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.2	5.2	2.1	0.0
85°	15.5	10.3	5.2	0.0
82.5°	22.7	14.5	7.2	0.0
80°	30.0	19.6	9.3	0.0
77.5°	38.3	24.8	12.4	0.0
75°	45.5	29.0	14.5	0.0
72.5°	52.7	34.1	16.5	0.0
70°	58.9	38.3	18.6	0.0
67.5°	65.1	43.4	21.7	0.0
65°	70.3	47.6	23.8	0.0
62.5°	74.4	52.7	25.8	0.0
60°	79.6	56.9	27.9	0.0
57.5°	83.8	60.0	30.0	0.0
55°	87.9	62.0	32.1	0.0
52.5°	92.0	65.1	34.1	0.0
50°	96.2	68.2	36.2	0.0
47.5°	100.3	70.3	37.2	0.0
45°	106.5	73.4	39.3	0.0
42.5°	111.7	75.5	41.4	0.0
40°	116.8	77.5	42.4	0.0
37.5°	122.0	79.6	44.5	0.0
35°	127.2	81.7	45.5	0.0
32.5°	131.3	83.8	46.5	0.0
30°	135.5	85.8	47.6	0.0
27.5°	139.6	86.9	48.6	0.0
25°	142.7	88.9	49.6	0.0
22.5°	145.8	90.0	50.7	0.0
20°	147.9	91.0	51.7	0.0
17.5°	151.0	92.0	52.7	0.0
15°	152.0	93.1	54.8	0.0
12.5°	154.1	94.1	54.8	0.0
10°	155.1	95.1	54.8	0.0
7.5°	157.2	95.1	54.8	0.0
5°	156.1	95.1	54.8	0.0
2.5°	156.1	95.1	54.8	0.0
0°	155.1	95.1	54.8	0.0

(END OF REPORT)