

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: P628471

Luminaire Tested: **IFLD-S-SA2C-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628471
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-935-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

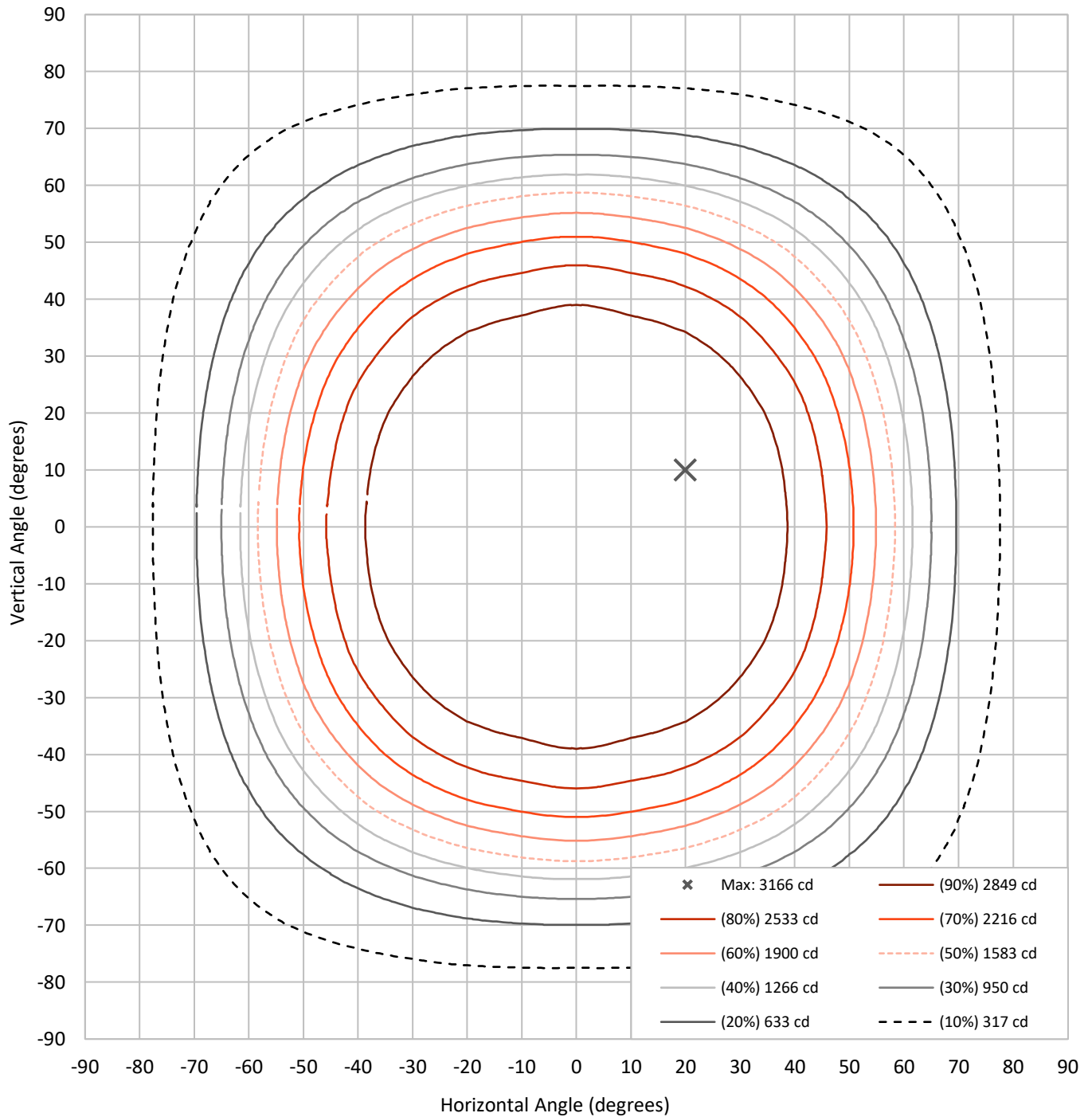
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9713 lumens	Max Intensity:	3166 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	89.8 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:	5960.1 lumens	Field Lumens:	7145.1 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	108.2		
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: P628471
CATALOG NUMBER: IFLD-S-SA2C-935-U-LAM

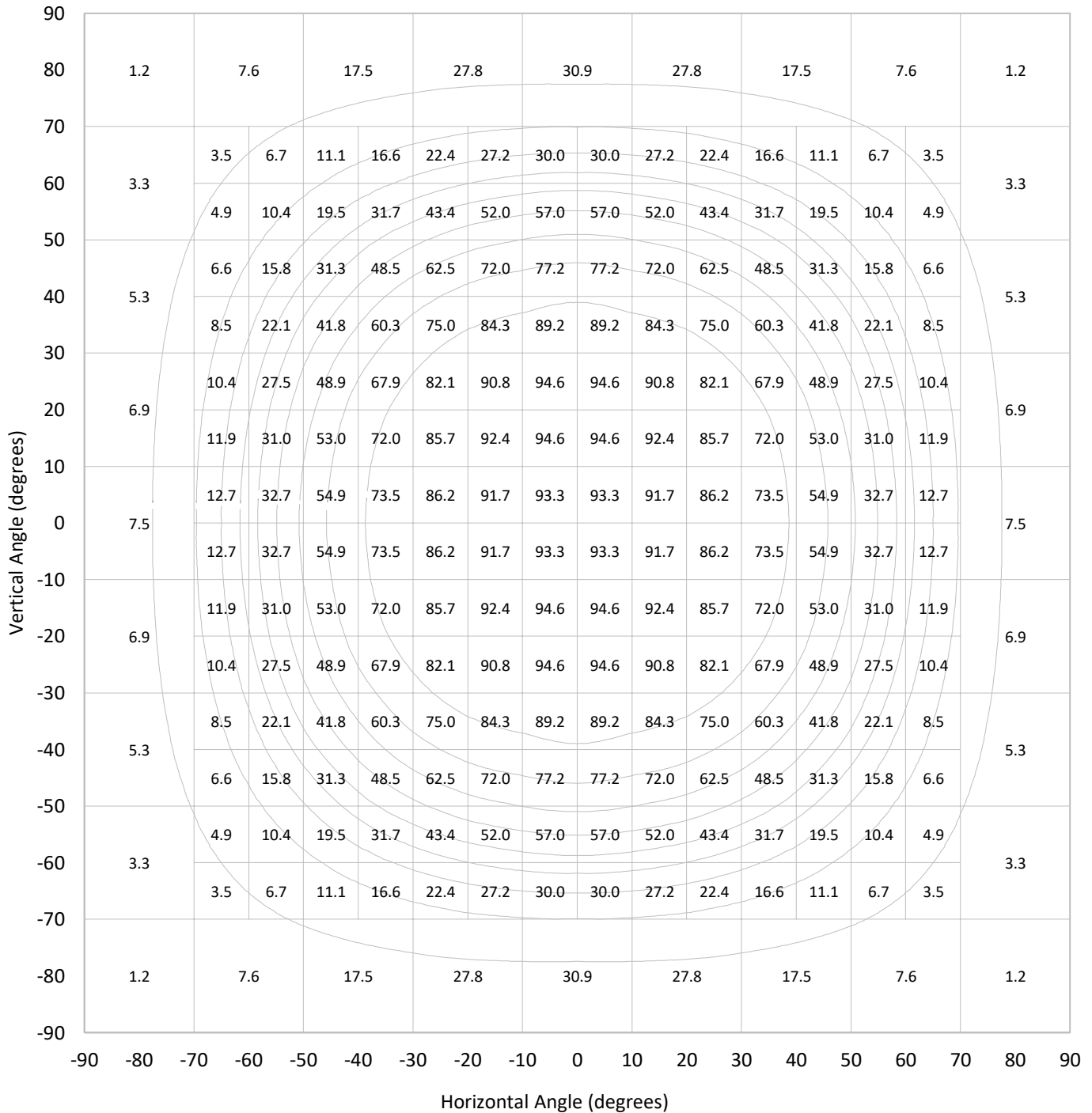
Iso-Candela Plot





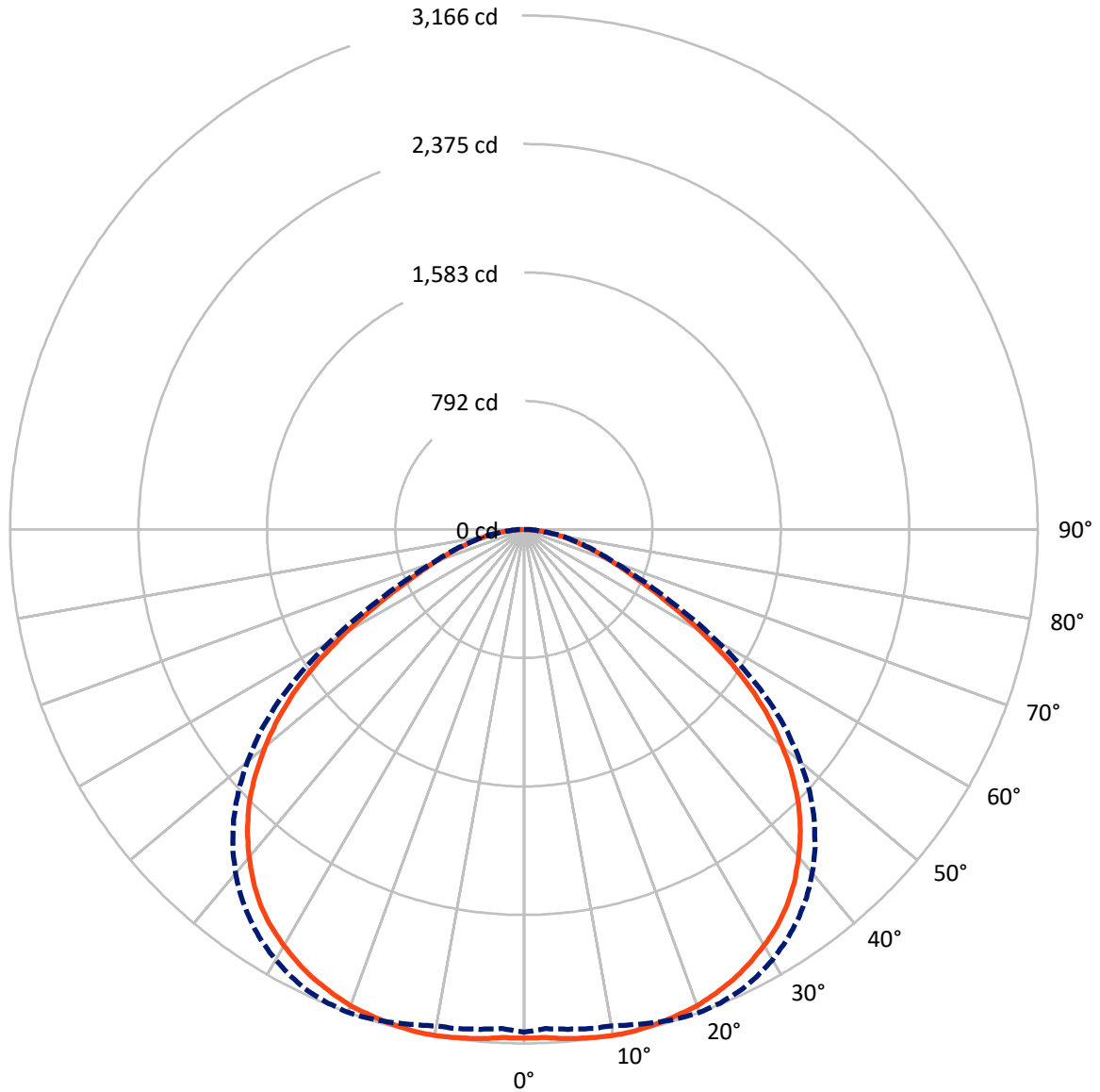
REPORT NUMBER: P628471
 CATALOG NUMBER: IFLD-S-SA2C-935-U-LAM

Lumen Table



REPORT NUMBER: P628471
CATALOG NUMBER: IFLD-S-SA2C-935-U-LAM

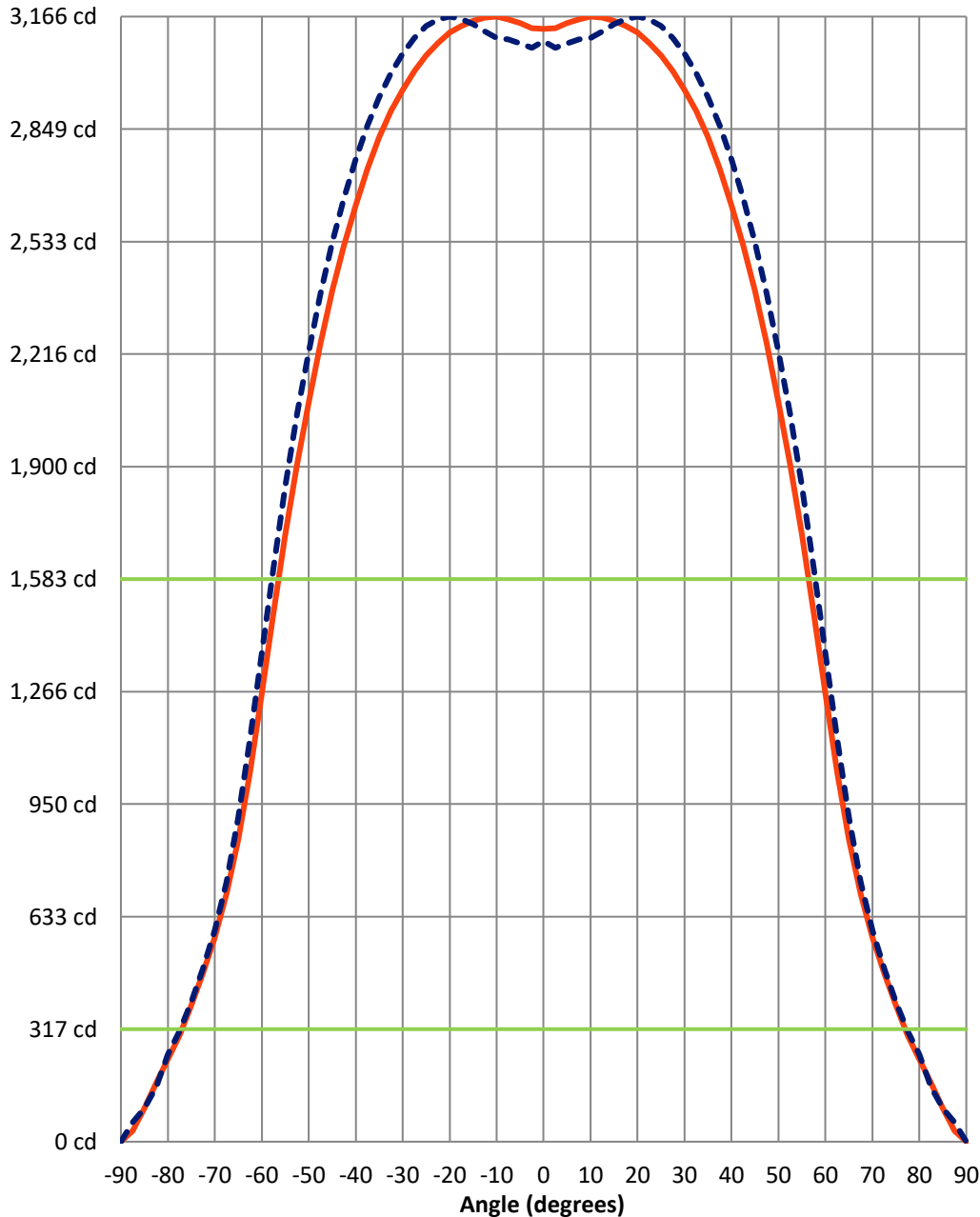
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628471
CATALOG NUMBER: IFLD-S-SA2C-935-U-LAM

Luminous Intensity Plot



Beam:
H Angle: 115.7°
V Angle: 112.9°
Lumens: 5960.1
Efficiency: 61.4%

Field:
H Angle: 154.7°
V Angle: 154°
Lumens: 7145.1
Efficiency: 73.6%

Spill:
Lumens: 2567.9
Efficiency: 26.4%

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



REPORT NUMBER: P628471
 CATALOG NUMBER: IFLD-S-SA2C-935-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°	25.5	27.6	28.6	29.6	30.7	31.7	32.7	31.7	30.7	30.7	29.6
85°	68.5	70.5	71.5	78.7	85.8	89.9	95.0	94.0	94.0	93.0	92.0
82.5°	136.9	143.1	148.2	155.3	159.4	165.6	169.6	166.6	164.5	160.4	157.4
80°	243.2	245.3	246.3	247.3	242.2	241.2	239.1	236.1	232.0	226.9	221.8
77.5°	309.7	311.7	313.7	311.7	310.7	309.7	306.6	303.5	299.4	295.3	289.2
75°	409.8	409.8	409.8	406.7	404.7	401.6	396.5	391.4	384.3	376.1	366.9
72.5°	516.1	515.1	514.0	507.9	502.8	496.7	489.5	483.4	475.2	466.0	453.8
70°	627.5	629.5	630.6	622.4	616.2	608.1	598.9	587.6	575.4	562.1	544.7
67.5°	780.8	778.7	776.7	765.5	757.3	746.0	732.7	716.4	698.0	677.6	653.0
65°	970.9	973.9	967.8	956.6	941.2	922.8	902.4	878.9	851.3	820.6	785.9
62.5°	1200.8	1205.9	1198.8	1184.5	1165.0	1140.5	1111.9	1078.2	1040.4	997.4	954.5
60°	1462.4	1461.4	1448.1	1428.7	1403.2	1372.5	1340.8	1304.0	1261.1	1211.0	1158.9
57.5°	1702.6	1700.6	1684.2	1664.8	1639.2	1606.5	1572.8	1534.0	1489.0	1435.9	1375.6
55°	1918.2	1916.2	1899.8	1879.4	1852.8	1820.1	1789.5	1752.7	1708.7	1652.5	1588.1
52.5°	2109.3	2110.4	2096.1	2073.6	2045.0	2013.3	1983.6	1946.8	1904.9	1848.7	1786.4
50°	2285.1	2284.1	2268.8	2248.3	2221.8	2191.1	2161.5	2124.7	2080.7	2026.6	1966.3
47.5°	2448.6	2446.6	2429.2	2406.7	2379.1	2352.6	2325.0	2292.3	2246.3	2192.1	2131.8
45°	2585.6	2581.5	2564.1	2542.6	2516.1	2492.6	2468.0	2443.5	2394.5	2344.4	2287.2
42.5°	2703.1	2702.1	2684.7	2663.2	2636.7	2616.2	2593.7	2563.1	2522.2	2476.2	2420.0
40°	2815.5	2807.3	2790.0	2769.5	2745.0	2727.6	2705.1	2674.5	2634.6	2589.7	2535.5
37.5°	2899.3	2900.3	2881.9	2859.5	2838.0	2821.6	2801.2	2772.6	2737.8	2693.9	2639.7
35°	2979.0	2973.9	2958.6	2939.2	2919.8	2901.4	2879.9	2855.4	2826.8	2785.9	2734.8
32.5°	3031.1	3038.3	3019.9	2999.5	2988.2	2973.9	2951.4	2925.9	2900.3	2859.5	2813.5
30°	3088.4	3082.2	3067.9	3050.6	3042.4	3033.2	3013.8	2989.2	2959.6	2922.8	2879.9
27.5°	3128.2	3125.2	3107.8	3091.4	3087.4	3079.2	3063.9	3042.4	3012.8	2977.0	2937.1
25°	3145.6	3147.7	3131.3	3122.1	3122.1	3117.0	3104.7	3086.3	3056.7	3024.0	2985.2
22.5°	3153.8	3151.7	3140.5	3138.5	3143.6	3139.5	3134.4	3118.0	3091.4	3064.9	3032.2
20°	3158.9	3144.6	3134.4	3142.5	3148.7	3147.7	3143.6	3133.3	3121.1	3098.6	3070.0
17.5°	3147.7	3138.5	3126.2	3138.5	3151.7	3152.8	3148.7	3142.5	3139.5	3125.2	3099.6
15°	3120.1	3112.9	3115.0	3127.2	3142.5	3147.7	3150.7	3157.9	3153.8	3142.5	3120.1
12.5°	3101.7	3092.5	3101.7	3113.9	3122.1	3125.2	3149.7	3163.0	3163.0	3152.8	3138.5
10°	3096.6	3078.2	3090.4	3101.7	3105.8	3124.1	3144.6	3158.9	3166.0	3157.9	3139.5
7.5°	3086.3	3074.1	3079.2	3084.3	3107.8	3121.1	3132.3	3147.7	3157.9	3156.9	3140.5
5°	3081.2	3065.9	3067.9	3089.4	3105.8	3115.0	3119.0	3132.3	3147.7	3150.7	3138.5
2.5°	3067.9	3060.8	3076.1	3078.2	3090.4	3097.6	3101.7	3113.9	3133.3	3140.5	3135.4
0°	3060.8	3050.6	3040.3	3048.5	3069.0	3084.3	3090.4	3108.8	3131.3	3138.5	3127.2



REPORT NUMBER: P628471
 CATALOG NUMBER: IFLD-S-SA2C-935-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°	28.6	27.6	26.6	25.5	26.6	26.6	26.6	25.5	26.6	25.5	25.5
85°	88.9	84.8	81.8	77.7	73.6	70.5	66.4	62.3	61.3	60.3	58.3
82.5°	153.3	148.2	143.1	136.9	130.8	123.7	116.5	108.3	106.3	104.2	101.2
80°	215.6	208.5	201.3	194.2	188.0	180.9	172.7	163.5	157.4	152.3	146.1
77.5°	281.0	270.8	260.6	248.3	241.2	234.0	225.9	216.7	207.5	199.3	190.1
75°	355.6	344.4	334.2	321.9	308.6	295.3	282.1	269.8	256.5	244.2	232.0
72.5°	438.4	422.1	405.7	390.4	374.0	357.7	340.3	324.0	307.6	291.3	273.9
70°	525.3	504.9	484.4	464.0	442.5	421.0	400.6	380.2	359.7	338.3	318.9
67.5°	627.5	604.0	577.4	548.8	517.1	489.5	463.0	438.4	413.9	389.4	364.8
65°	755.2	722.5	686.8	647.9	611.1	574.3	535.5	498.7	470.1	441.5	413.9
62.5°	912.6	866.6	816.6	766.5	721.5	673.5	628.5	580.5	535.5	494.6	460.9
60°	1100.7	1038.3	977.0	912.6	850.3	784.9	727.6	668.4	612.2	562.1	513.0
57.5°	1308.1	1235.6	1162.0	1083.3	998.5	921.8	844.1	766.5	700.0	633.6	578.4
55°	1518.6	1442.0	1359.2	1270.3	1177.3	1079.2	973.9	887.1	796.1	718.4	646.9
52.5°	1718.9	1639.2	1553.4	1471.6	1360.2	1247.8	1132.3	1017.9	911.6	812.5	725.6
50°	1897.8	1820.1	1737.3	1642.3	1539.1	1419.5	1290.7	1162.0	1036.3	919.8	811.4
47.5°	2061.3	1985.7	1902.9	1807.9	1713.8	1581.0	1451.2	1309.1	1169.1	1035.3	908.5
45°	2214.6	2138.0	2052.1	1961.2	1852.8	1734.3	1600.4	1457.3	1307.1	1156.9	1010.7
42.5°	2353.6	2276.9	2190.1	2096.1	1988.7	1871.2	1741.4	1597.3	1446.1	1282.6	1122.1
40°	2475.2	2400.6	2316.8	2218.7	2118.5	1994.9	1867.1	1730.2	1573.8	1409.3	1232.5
37.5°	2581.5	2512.0	2429.2	2332.1	2225.8	2115.5	1983.6	1846.7	1705.7	1526.8	1345.9
35°	2675.5	2611.1	2526.3	2434.3	2330.1	2213.6	2089.9	1956.0	1803.8	1636.2	1460.4
32.5°	2757.3	2691.9	2614.2	2522.2	2421.0	2311.7	2185.0	2050.1	1906.0	1735.3	1544.2
30°	2826.8	2763.4	2689.8	2602.9	2505.9	2397.5	2273.9	2138.0	1990.8	1821.1	1632.1
27.5°	2887.1	2826.8	2755.2	2674.5	2581.5	2477.2	2352.6	2215.6	2065.4	1901.9	1712.8
25°	2939.2	2880.9	2814.5	2737.8	2645.9	2543.7	2426.1	2283.1	2132.8	1968.3	1781.3
22.5°	2986.2	2930.0	2863.5	2788.9	2705.1	2602.9	2484.4	2342.3	2190.1	2027.6	1843.6
20°	3028.1	2976.0	2910.6	2833.9	2750.1	2646.9	2529.4	2394.5	2241.2	2081.7	1899.8
17.5°	3061.8	3015.8	2950.4	2869.7	2785.9	2685.7	2571.3	2447.6	2285.1	2127.7	1946.8
15°	3085.3	3040.3	2981.1	2899.3	2817.6	2718.4	2604.0	2476.2	2325.0	2164.5	1985.7
12.5°	3101.7	3053.6	2998.4	2922.8	2841.1	2743.0	2631.6	2505.9	2358.7	2197.2	2019.4
10°	3105.8	3061.8	3006.6	2939.2	2859.5	2764.4	2655.1	2530.4	2386.3	2222.8	2047.0
7.5°	3107.8	3065.9	3015.8	2951.4	2872.7	2780.8	2672.4	2549.8	2406.7	2244.2	2067.4
5°	3106.8	3066.9	3022.0	2959.6	2880.9	2790.0	2683.7	2563.1	2421.0	2258.5	2082.8
2.5°	3103.7	3067.9	3026.0	2965.7	2890.1	2800.2	2694.9	2578.4	2436.4	2270.8	2095.0
0°	3111.9	3081.2	3028.1	2963.7	2892.2	2800.2	2693.9	2580.5	2438.4	2269.8	2094.0



REPORT NUMBER: P628471
 CATALOG NUMBER: IFLD-S-SA2C-935-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°	25.5	24.5	24.5	23.5	22.5	21.5	19.4	18.4	16.4	13.3	10.2
85°	55.2	52.1	49.1	47.0	45.0	42.9	39.9	36.8	32.7	26.6	20.4
82.5°	97.1	91.0	84.8	77.7	71.5	65.4	60.3	55.2	49.1	39.9	30.7
80°	139.0	129.8	120.6	110.4	101.2	91.0	81.8	73.6	65.4	53.1	40.9
77.5°	180.9	168.6	155.3	143.1	129.8	116.5	103.2	92.0	79.7	65.4	51.1
75°	219.7	205.4	193.2	175.8	159.4	142.1	124.7	109.4	94.0	76.6	61.3
72.5°	258.6	240.2	222.8	206.4	188.0	166.6	147.2	127.7	108.3	87.9	69.5
70°	297.4	274.9	253.4	234.0	213.6	192.1	168.6	146.1	122.6	98.1	76.6
67.5°	337.2	311.7	287.2	262.6	239.1	214.6	190.1	164.5	136.9	108.3	84.8
65°	381.2	349.5	319.9	292.3	264.7	238.1	210.5	182.9	152.3	119.6	92.0
62.5°	425.1	390.4	355.6	320.9	290.2	260.6	231.0	200.3	166.6	131.8	99.1
60°	472.1	432.3	392.4	353.6	315.8	283.1	250.4	217.7	181.9	143.1	106.3
57.5°	524.3	476.2	431.3	387.3	344.4	305.6	269.8	235.1	195.2	154.3	114.5
55°	583.5	524.3	471.1	422.1	375.1	328.1	289.2	253.4	210.5	165.6	123.7
52.5°	645.9	577.4	513.0	457.8	407.8	354.6	307.6	267.8	225.9	176.8	131.8
50°	718.4	631.6	560.0	492.6	436.4	381.2	327.0	284.1	241.2	190.1	140.0
47.5°	793.0	697.0	607.0	533.5	467.0	406.7	349.5	298.4	255.5	202.3	148.2
45°	879.9	759.3	660.2	573.3	496.7	433.3	372.0	313.7	267.8	214.6	156.4
42.5°	963.7	832.9	715.4	617.3	530.4	458.9	392.4	330.1	280.0	226.9	163.5
40°	1062.8	906.5	768.5	659.2	564.1	483.4	412.9	347.5	291.3	238.1	170.7
37.5°	1157.9	981.1	832.9	705.2	596.8	507.9	433.3	363.8	301.5	249.4	179.9
35°	1251.9	1063.9	894.2	748.1	630.6	535.5	453.8	379.1	311.7	258.6	188.0
32.5°	1341.8	1141.5	956.6	796.1	667.3	561.1	472.1	393.5	321.9	266.7	196.2
30°	1425.6	1215.1	1017.9	845.2	701.1	584.6	489.5	407.8	334.2	273.9	204.4
27.5°	1502.3	1286.7	1079.2	891.2	732.7	606.0	507.9	421.0	344.4	281.0	211.5
25°	1571.8	1351.0	1135.4	933.1	761.4	629.5	525.3	434.3	353.6	287.2	217.7
22.5°	1637.2	1410.3	1186.5	975.0	796.1	653.0	541.6	446.6	362.8	293.3	223.8
20°	1694.4	1464.5	1235.6	1016.9	826.8	674.5	555.9	457.8	371.0	297.4	229.9
17.5°	1740.4	1512.5	1279.5	1053.6	853.3	692.9	568.2	468.1	378.1	302.5	234.0
15°	1781.3	1553.4	1316.3	1085.3	876.8	708.2	579.5	476.2	384.3	305.6	239.1
12.5°	1816.0	1588.1	1348.0	1112.9	897.3	721.5	588.7	482.4	389.4	308.6	242.2
10°	1844.6	1615.7	1374.5	1134.4	913.6	731.7	595.8	488.5	393.5	311.7	245.3
7.5°	1866.1	1636.2	1394.0	1152.8	926.9	738.9	601.9	492.6	397.5	313.7	250.4
5°	1882.5	1653.5	1409.3	1165.0	937.1	749.1	609.1	497.7	401.6	315.8	250.4
2.5°	1894.7	1667.8	1421.6	1175.3	945.3	747.1	609.1	496.7	401.6	315.8	249.4
0°	1892.7	1668.9	1420.5	1175.3	945.3	745.0	609.1	495.7	401.6	315.8	249.4



REPORT NUMBER: P628471
 CATALOG NUMBER: IFLD-S-SA2C-935-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.2	5.1	2.0	0.0
85°	15.3	10.2	5.1	0.0
82.5°	22.5	14.3	7.2	0.0
80°	29.6	19.4	9.2	0.0
77.5°	37.8	24.5	12.3	0.0
75°	45.0	28.6	14.3	0.0
72.5°	52.1	33.7	16.4	0.0
70°	58.3	37.8	18.4	0.0
67.5°	64.4	42.9	21.5	0.0
65°	69.5	47.0	23.5	0.0
62.5°	73.6	52.1	25.5	0.0
60°	78.7	56.2	27.6	0.0
57.5°	82.8	59.3	29.6	0.0
55°	86.9	61.3	31.7	0.0
52.5°	91.0	64.4	33.7	0.0
50°	95.0	67.4	35.8	0.0
47.5°	99.1	69.5	36.8	0.0
45°	105.3	72.6	38.8	0.0
42.5°	110.4	74.6	40.9	0.0
40°	115.5	76.6	41.9	0.0
37.5°	120.6	78.7	43.9	0.0
35°	125.7	80.7	45.0	0.0
32.5°	129.8	82.8	46.0	0.0
30°	133.9	84.8	47.0	0.0
27.5°	138.0	85.8	48.0	0.0
25°	141.0	87.9	49.1	0.0
22.5°	144.1	88.9	50.1	0.0
20°	146.1	89.9	51.1	0.0
17.5°	149.2	91.0	52.1	0.0
15°	150.2	92.0	54.2	0.0
12.5°	152.3	93.0	54.2	0.0
10°	153.3	94.0	54.2	0.0
7.5°	155.3	94.0	54.2	0.0
5°	154.3	94.0	54.2	0.0
2.5°	154.3	94.0	54.2	0.0
0°	153.3	94.0	54.2	0.0

(END OF REPORT)