

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: P628492

Luminaire Tested: **IFLD-L-SA7D-935-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628492  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-935-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	33334.1 lumens	Max Intensity:	10865.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	78.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

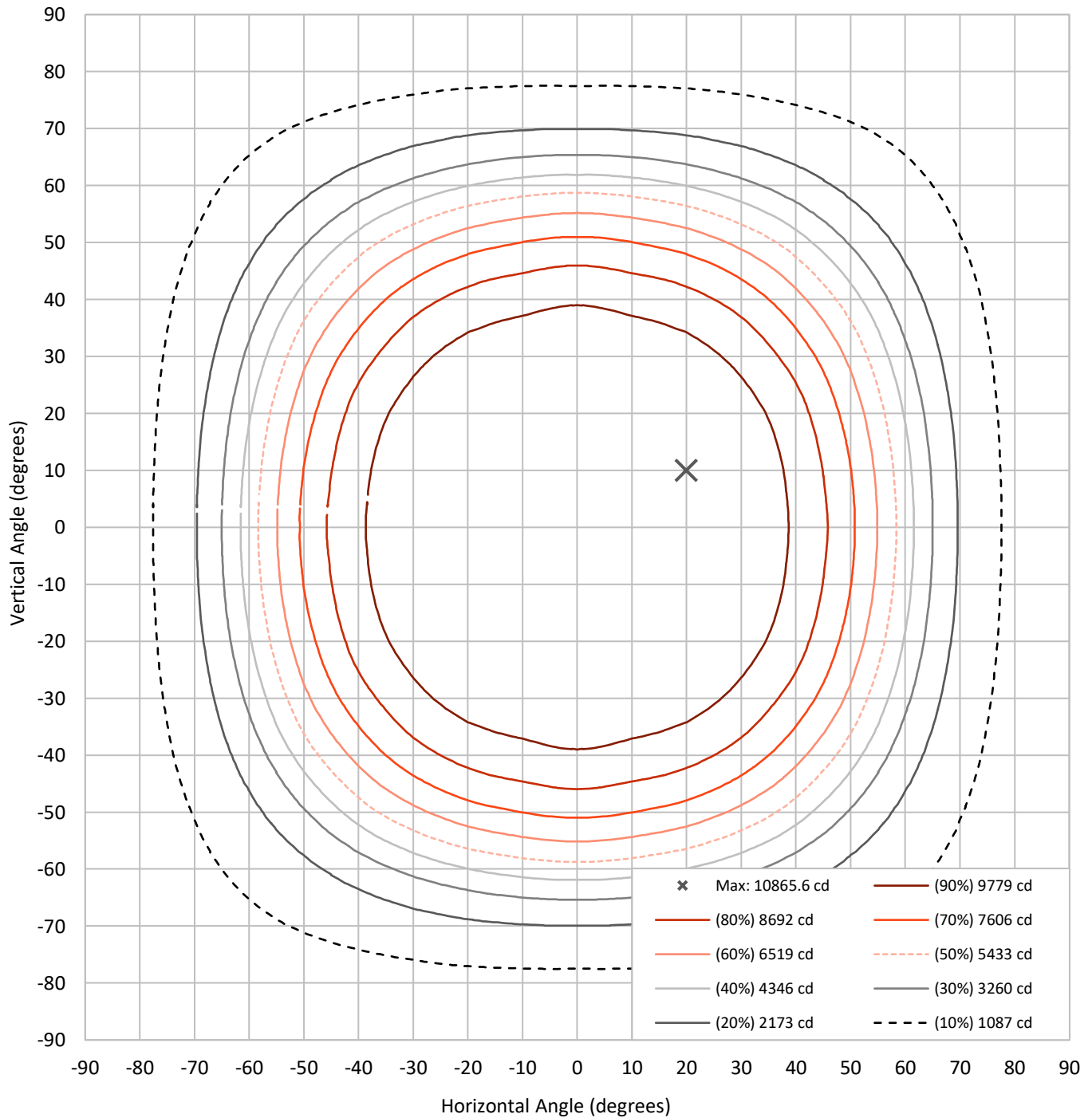
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	20454.5 lumens	Field Lumens:	24521.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 422.6  
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: P628492  
CATALOG NUMBER: IFLD-L-SA7D-935-U-LAM

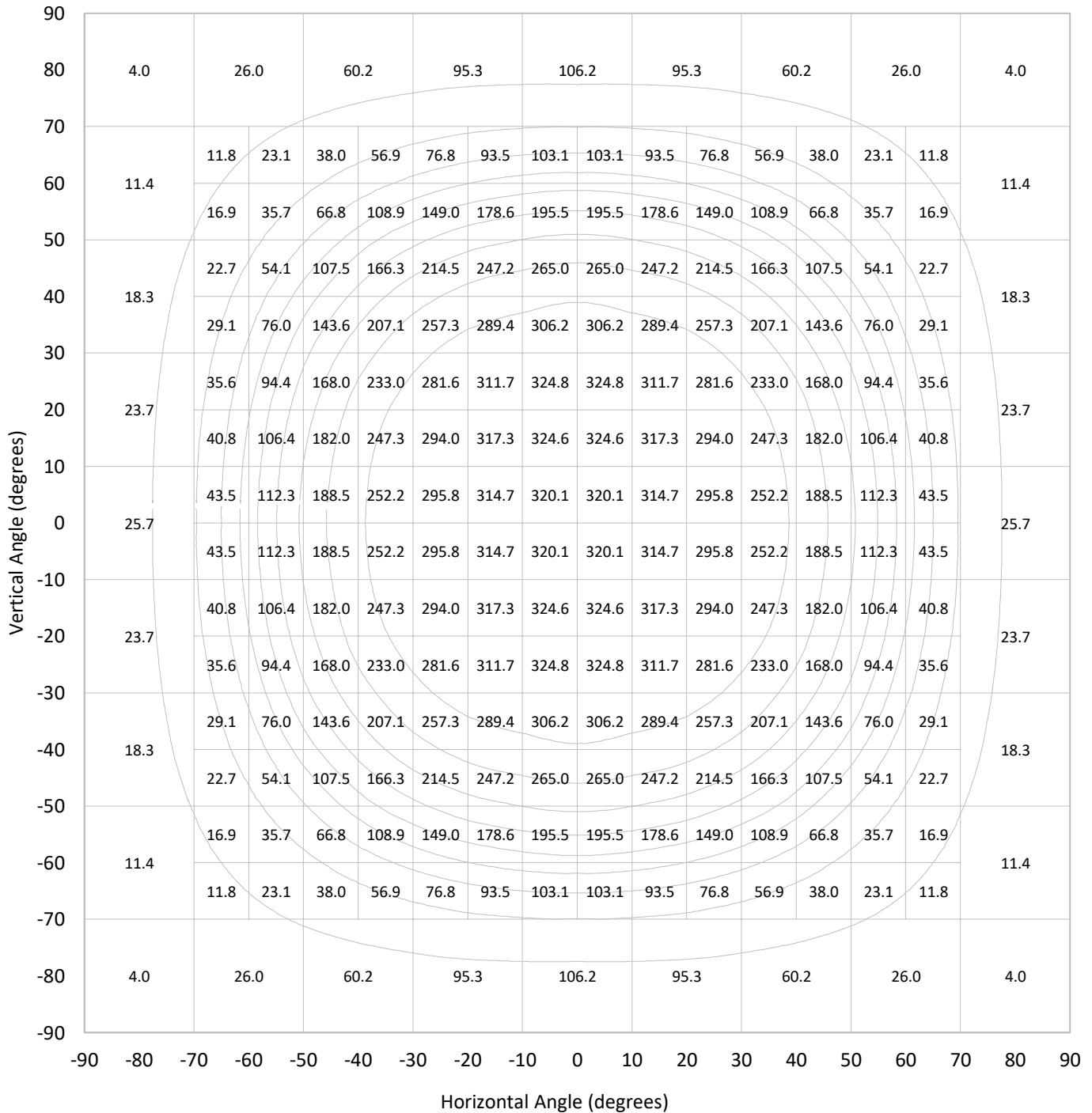
### Iso-Candela Plot





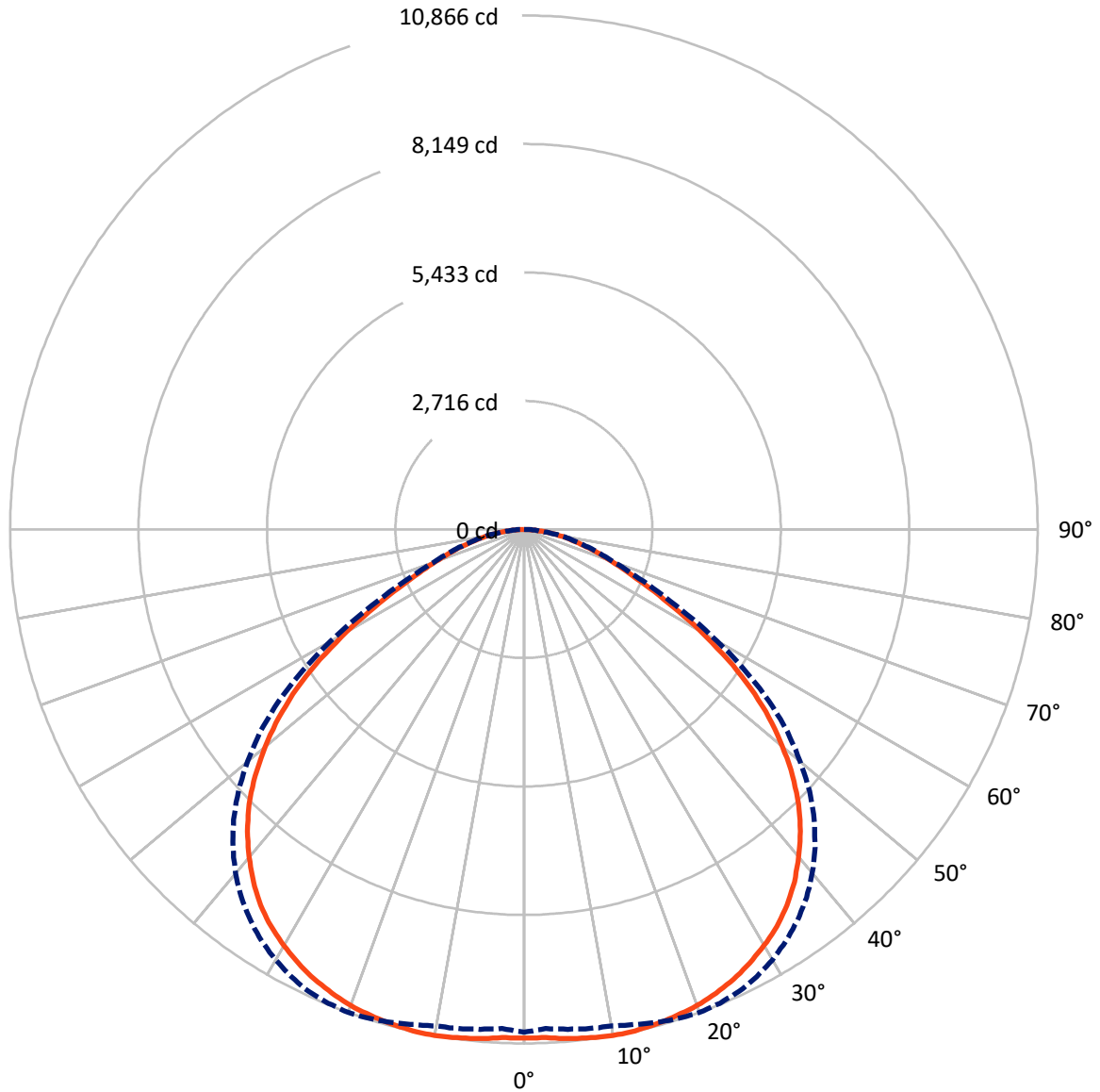
REPORT NUMBER: P628492  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-LAM

### Lumen Table



REPORT NUMBER: P628492  
CATALOG NUMBER: IFLD-L-SA7D-935-U-LAM

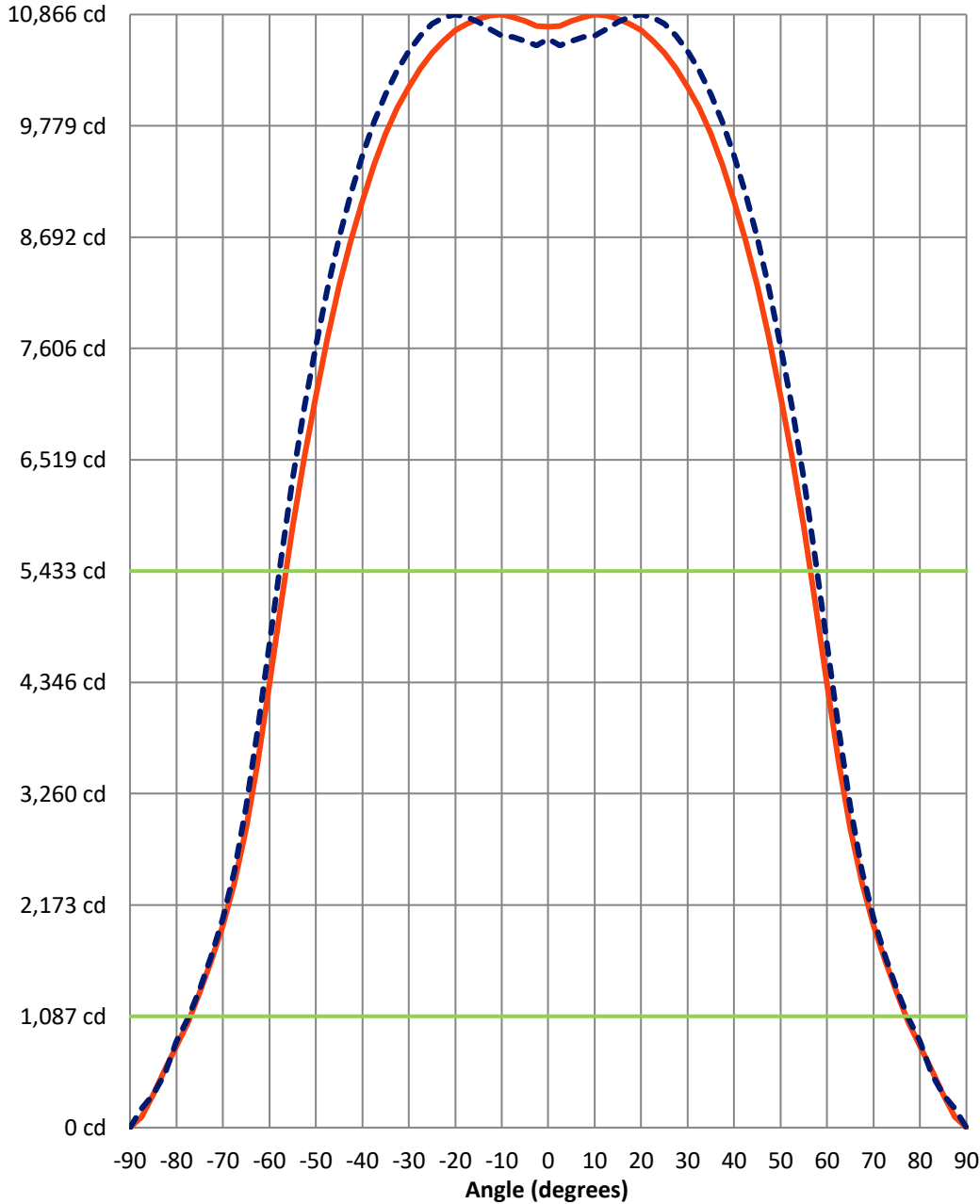
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628492  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 20454.5  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 24521.5  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 8812.7  
 Efficiency: 26.4%

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



REPORT NUMBER: P628492  
 CATALOG NUMBER: IFLD-L-SA7D-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°	87.7	94.7	98.2	101.7	105.2	108.7	112.2	108.7	105.2	105.2	101.7
85°	235.0	242.0	245.5	270.1	294.6	308.6	326.2	322.7	322.7	319.2	315.7
82.5°	470.0	491.0	508.6	533.1	547.1	568.2	582.2	571.7	564.7	550.6	540.1
80°	834.7	841.7	845.3	848.8	831.2	827.7	820.7	810.2	796.2	778.6	761.1
77.5°	1062.7	1069.7	1076.7	1069.7	1066.2	1062.7	1052.2	1041.7	1027.6	1013.6	992.6
75°	1406.4	1406.4	1406.4	1395.9	1388.9	1378.4	1360.8	1343.3	1318.7	1290.7	1259.1
72.5°	1771.2	1767.7	1764.2	1743.1	1725.6	1704.5	1680.0	1658.9	1630.9	1599.3	1557.2
70°	2153.5	2160.5	2164.0	2135.9	2114.9	2086.8	2055.3	2016.7	1974.6	1929.0	1869.4
67.5°	2679.6	2672.6	2665.5	2627.0	2598.9	2560.3	2514.7	2458.6	2395.5	2325.3	2241.2
65°	3331.9	3342.4	3321.4	3282.8	3230.2	3167.1	3096.9	3016.3	2921.6	2816.4	2697.1
62.5°	4121.1	4138.6	4114.1	4064.9	3998.3	3914.1	3815.9	3700.2	3570.4	3423.1	3275.8
60°	5018.9	5015.4	4969.8	4903.2	4815.5	4710.3	4601.6	4475.3	4328.0	4156.1	3977.3
57.5°	5843.1	5836.1	5780.0	5713.4	5625.7	5513.5	5397.7	5264.4	5110.1	4927.7	4720.8
55°	6583.2	6576.2	6520.1	6449.9	6358.7	6246.5	6141.3	6015.0	5864.2	5671.3	5450.3
52.5°	7239.0	7242.6	7193.5	7116.3	7018.1	6909.4	6807.7	6681.4	6537.6	6344.7	6130.7
50°	7842.3	7838.8	7786.2	7716.0	7624.8	7519.6	7417.9	7291.7	7140.8	6955.0	6748.0
47.5°	8403.5	8396.5	8336.8	8259.7	8165.0	8073.8	7979.1	7866.9	7709.0	7523.1	7316.2
45°	8873.4	8859.4	8799.8	8726.1	8634.9	8554.3	8470.1	8385.9	8217.6	8045.7	7849.3
42.5°	9276.8	9273.3	9213.7	9140.0	9048.8	8978.7	8901.5	8796.3	8656.0	8498.2	8305.3
40°	9662.6	9634.5	9574.9	9504.8	9420.6	9361.0	9283.8	9178.6	9041.8	8887.5	8701.6
37.5°	9950.2	9953.7	9890.6	9813.4	9739.7	9683.6	9613.5	9515.3	9396.0	9245.2	9059.3
35°	10223.8	10206.2	10153.6	10087.0	10020.3	9957.2	9883.5	9799.4	9701.2	9560.9	9385.5
32.5°	10402.6	10427.2	10364.0	10293.9	10255.3	10206.2	10129.1	10041.4	9953.7	9813.4	9655.6
30°	10599.0	10578.0	10528.9	10469.3	10441.2	10409.6	10343.0	10258.8	10157.1	10030.8	9883.5
27.5°	10735.8	10725.3	10665.7	10609.6	10595.5	10567.5	10514.9	10441.2	10339.5	10216.7	10080.0
25°	10795.4	10802.5	10746.3	10714.8	10714.8	10697.2	10655.1	10592.0	10490.3	10378.1	10244.8
22.5°	10823.5	10816.5	10777.9	10770.9	10788.4	10774.4	10756.9	10700.7	10609.6	10518.4	10406.1
20°	10841.0	10791.9	10756.9	10784.9	10806.0	10802.5	10788.4	10753.4	10711.3	10634.1	10535.9
17.5°	10802.5	10770.9	10728.8	10770.9	10816.5	10820.0	10806.0	10784.9	10774.4	10725.3	10637.6
15°	10707.8	10683.2	10690.2	10732.3	10784.9	10802.5	10813.0	10837.5	10823.5	10784.9	10707.8
12.5°	10644.6	10613.1	10644.6	10686.7	10714.8	10725.3	10809.5	10855.1	10855.1	10820.0	10770.9
10°	10627.1	10564.0	10606.0	10644.6	10658.7	10721.8	10791.9	10841.0	10865.6	10837.5	10774.4
7.5°	10592.0	10549.9	10567.5	10585.0	10665.7	10711.3	10749.8	10802.5	10837.5	10834.0	10777.9
5°	10574.5	10521.9	10528.9	10602.5	10658.7	10690.2	10704.2	10749.8	10802.5	10813.0	10770.9
2.5°	10528.9	10504.3	10556.9	10564.0	10606.0	10630.6	10644.6	10686.7	10753.4	10777.9	10760.4
0°	10504.3	10469.3	10434.2	10462.2	10532.4	10585.0	10606.0	10669.2	10746.3	10770.9	10732.3



REPORT NUMBER: P628492  
 CATALOG NUMBER: IFLD-L-SA7D-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°	98.2	94.7	91.2	87.7	91.2	91.2	91.2	87.7	91.2	87.7	87.7
85°	305.1	291.1	280.6	266.6	252.5	242.0	228.0	213.9	210.4	206.9	199.9
82.5°	526.1	508.6	491.0	470.0	448.9	424.4	399.8	371.8	364.8	357.7	347.2
80°	740.0	715.5	690.9	666.4	645.3	620.8	592.7	561.2	540.1	522.6	501.5
77.5°	964.5	929.4	894.4	852.3	827.7	803.2	775.1	743.5	712.0	683.9	652.4
75°	1220.5	1182.0	1146.9	1104.8	1059.2	1013.6	968.0	925.9	880.3	838.2	796.2
72.5°	1504.6	1448.5	1392.4	1339.8	1283.7	1227.6	1167.9	1111.8	1055.7	999.6	940.0
70°	1802.7	1732.6	1662.5	1592.3	1518.7	1445.0	1374.9	1304.7	1234.6	1160.9	1094.3
67.5°	2153.5	2072.8	1981.6	1883.4	1774.7	1680.0	1588.8	1504.6	1420.5	1336.3	1252.1
65°	2591.9	2479.7	2356.9	2223.6	2097.4	1971.1	1837.8	1711.6	1613.4	1515.1	1420.5
62.5°	3132.0	2974.2	2802.3	2630.5	2476.1	2311.3	2157.0	1992.1	1837.8	1697.5	1581.8
60°	3777.4	3563.4	3353.0	3132.0	2918.1	2693.6	2497.2	2293.8	2100.9	1929.0	1760.7
57.5°	4489.3	4240.3	3987.8	3717.7	3426.6	3163.6	2897.0	2630.5	2402.5	2174.5	1985.1
55°	5211.8	4948.8	4664.7	4359.6	4040.4	3703.7	3342.4	3044.3	2732.2	2465.6	2220.1
52.5°	5899.3	5625.7	5331.1	5050.5	4668.2	4282.4	3886.1	3493.3	3128.5	2788.3	2490.2
50°	6513.0	6246.5	5962.4	5636.2	5282.0	4871.6	4429.7	3987.8	3556.4	3156.6	2784.8
47.5°	7074.2	6814.7	6530.6	6204.4	5881.7	5425.8	4980.4	4492.8	4012.3	3552.9	3118.0
45°	7600.3	7337.3	7042.6	6730.5	6358.7	5951.9	5492.4	5001.4	4485.8	3970.3	3468.7
42.5°	8077.3	7814.2	7516.1	7193.5	6825.2	6421.8	5976.4	5481.9	4962.8	4401.6	3851.0
40°	8494.7	8238.6	7951.0	7614.3	7270.6	6846.2	6407.8	5937.8	5401.2	4836.6	4229.8
37.5°	8859.4	8620.9	8336.8	8003.6	7638.9	7260.1	6807.7	6337.7	5853.7	5239.9	4619.1
35°	9182.1	8961.1	8670.0	8354.4	7996.6	7596.8	7172.4	6713.0	6190.4	5615.2	5011.9
32.5°	9462.7	9238.2	8971.6	8656.0	8308.8	7933.5	7498.6	7035.6	6541.1	5955.4	5299.5
30°	9701.2	9483.7	9231.2	8933.1	8599.9	8228.1	7803.7	7337.3	6832.2	6250.0	5601.1
27.5°	9908.1	9701.2	9455.7	9178.6	8859.4	8501.7	8073.8	7603.8	7088.2	6527.1	5878.2
25°	10087.0	9887.1	9659.1	9396.0	9080.4	8729.6	8326.3	7835.3	7319.7	6755.0	6113.2
22.5°	10248.3	10055.4	9827.4	9571.4	9283.8	8933.1	8526.2	8038.7	7516.1	6958.5	6327.2
20°	10392.1	10213.2	9988.8	9725.7	9438.1	9083.9	8680.5	8217.6	7691.5	7144.4	6520.1
17.5°	10507.8	10350.0	10125.5	9848.5	9560.9	9217.2	8824.3	8400.0	7842.3	7302.2	6681.4
15°	10588.5	10434.2	10230.8	9950.2	9669.6	9329.4	8936.6	8498.2	7979.1	7428.4	6814.7
12.5°	10644.6	10479.8	10290.4	10030.8	9750.3	9413.6	9031.3	8599.9	8094.8	7540.7	6930.4
10°	10658.7	10507.8	10318.4	10087.0	9813.4	9487.2	9111.9	8684.1	8189.5	7628.4	7025.1
7.5°	10665.7	10521.9	10350.0	10129.1	9859.0	9543.3	9171.6	8750.7	8259.7	7702.0	7095.2
5°	10662.2	10525.4	10371.1	10157.1	9887.1	9574.9	9210.1	8796.3	8308.8	7751.1	7147.9
2.5°	10651.6	10528.9	10385.1	10178.2	9918.6	9610.0	9248.7	8848.9	8361.4	7793.2	7189.9
0°	10679.7	10574.5	10392.1	10171.1	9925.6	9610.0	9245.2	8855.9	8368.4	7789.7	7186.4





REPORT NUMBER: P628492  
 CATALOG NUMBER: IFLD-L-SA7D-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°	87.7	84.2	84.2	80.7	77.2	73.7	66.6	63.1	56.1	45.6	35.1
85°	189.4	178.9	168.3	161.3	154.3	147.3	136.8	126.3	112.2	91.2	70.1
82.5°	333.2	312.1	291.1	266.6	245.5	224.5	206.9	189.4	168.3	136.8	105.2
80°	477.0	445.4	413.9	378.8	347.2	312.1	280.6	252.5	224.5	182.4	140.3
77.5°	620.8	578.7	533.1	491.0	445.4	399.8	354.2	315.7	273.6	224.5	175.4
75°	754.1	705.0	662.9	603.3	547.1	487.5	427.9	375.3	322.7	263.0	210.4
72.5°	887.3	824.2	764.6	708.5	645.3	571.7	505.0	438.4	371.8	301.6	238.5
70°	1020.6	943.5	869.8	803.2	733.0	659.4	578.7	501.5	420.9	336.7	263.0
67.5°	1157.4	1069.7	985.5	901.4	820.7	736.5	652.4	564.7	470.0	371.8	291.1
65°	1308.2	1199.5	1097.8	1003.1	908.4	817.2	722.5	627.8	522.6	410.4	315.7
62.5°	1459.0	1339.8	1220.5	1101.3	996.1	894.4	792.6	687.4	571.7	452.4	340.2
60°	1620.4	1483.6	1346.8	1213.5	1083.8	971.5	859.3	747.1	624.3	491.0	364.8
57.5°	1799.2	1634.4	1480.1	1329.3	1182.0	1048.7	925.9	806.7	669.9	529.6	392.8
55°	2002.7	1799.2	1616.9	1448.5	1287.2	1125.8	992.6	869.8	722.5	568.2	424.4
52.5°	2216.6	1981.6	1760.7	1571.3	1399.4	1217.0	1055.7	918.9	775.1	606.8	452.4
50°	2465.6	2167.5	1922.0	1690.5	1497.6	1308.2	1122.3	975.0	827.7	652.4	480.5
47.5°	2721.7	2392.0	2083.3	1830.8	1602.8	1395.9	1199.5	1024.1	876.8	694.4	508.6
45°	3019.8	2605.9	2265.7	1967.6	1704.5	1487.1	1276.7	1076.7	918.9	736.5	536.6
42.5°	3307.4	2858.4	2455.1	2118.4	1820.3	1574.8	1346.8	1132.9	961.0	778.6	561.2
40°	3647.6	3111.0	2637.5	2262.2	1936.0	1658.9	1416.9	1192.5	999.6	817.2	585.7
37.5°	3973.8	3367.0	2858.4	2420.0	2048.3	1743.1	1487.1	1248.6	1034.7	855.8	617.3
35°	4296.4	3651.1	3068.9	2567.3	2164.0	1837.8	1557.2	1301.2	1069.7	887.3	645.3
32.5°	4605.1	3917.6	3282.8	2732.2	2290.3	1925.5	1620.4	1350.3	1104.8	915.4	673.4
30°	4892.7	4170.2	3493.3	2900.5	2406.0	2006.2	1680.0	1399.4	1146.9	940.0	701.5
27.5°	5155.7	4415.7	3703.7	3058.4	2514.7	2079.8	1743.1	1445.0	1182.0	964.5	726.0
25°	5394.2	4636.6	3896.6	3202.2	2612.9	2160.5	1802.7	1490.6	1213.5	985.5	747.1
22.5°	5618.7	4840.1	4072.0	3346.0	2732.2	2241.2	1858.9	1532.7	1245.1	1006.6	768.1
20°	5815.1	5025.9	4240.3	3489.8	2837.4	2314.8	1908.0	1571.3	1273.1	1020.6	789.1
17.5°	5972.9	5190.8	4391.1	3616.0	2928.6	2377.9	1950.1	1606.3	1297.7	1038.2	803.2
15°	6113.2	5331.1	4517.4	3724.7	3009.3	2430.6	1988.6	1634.4	1318.7	1048.7	820.7
12.5°	6232.5	5450.3	4626.1	3819.4	3079.4	2476.1	2020.2	1655.4	1336.3	1059.2	831.2
10°	6330.7	5545.0	4717.3	3893.1	3135.5	2511.2	2044.8	1676.5	1350.3	1069.7	841.7
7.5°	6404.3	5615.2	4783.9	3956.2	3181.1	2535.8	2065.8	1690.5	1364.3	1076.7	859.3
5°	6460.4	5674.8	4836.6	3998.3	3216.2	2570.8	2090.3	1708.1	1378.4	1083.8	859.3
2.5°	6502.5	5723.9	4878.6	4033.4	3244.2	2563.8	2090.3	1704.5	1378.4	1083.8	855.8
0°	6495.5	5727.4	4875.1	4033.4	3244.2	2556.8	2090.3	1701.0	1378.4	1083.8	855.8



REPORT NUMBER: P628492  
 CATALOG NUMBER: IFLD-L-SA7D-935-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	24.6	17.5	7.0	0.0
85°	52.6	35.1	17.5	0.0
82.5°	77.2	49.1	24.6	0.0
80°	101.7	66.6	31.6	0.0
77.5°	129.8	84.2	42.1	0.0
75°	154.3	98.2	49.1	0.0
72.5°	178.9	115.7	56.1	0.0
70°	199.9	129.8	63.1	0.0
67.5°	221.0	147.3	73.7	0.0
65°	238.5	161.3	80.7	0.0
62.5°	252.5	178.9	87.7	0.0
60°	270.1	192.9	94.7	0.0
57.5°	284.1	203.4	101.7	0.0
55°	298.1	210.4	108.7	0.0
52.5°	312.1	221.0	115.7	0.0
50°	326.2	231.5	122.8	0.0
47.5°	340.2	238.5	126.3	0.0
45°	361.3	249.0	133.3	0.0
42.5°	378.8	256.0	140.3	0.0
40°	396.3	263.0	143.8	0.0
37.5°	413.9	270.1	150.8	0.0
35°	431.4	277.1	154.3	0.0
32.5°	445.4	284.1	157.8	0.0
30°	459.5	291.1	161.3	0.0
27.5°	473.5	294.6	164.8	0.0
25°	484.0	301.6	168.3	0.0
22.5°	494.5	305.1	171.9	0.0
20°	501.5	308.6	175.4	0.0
17.5°	512.1	312.1	178.9	0.0
15°	515.6	315.7	185.9	0.0
12.5°	522.6	319.2	185.9	0.0
10°	526.1	322.7	185.9	0.0
7.5°	533.1	322.7	185.9	0.0
5°	529.6	322.7	185.9	0.0
2.5°	529.6	322.7	185.9	0.0
0°	526.1	322.7	185.9	0.0

(END OF REPORT)