

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: P628382

Luminaire Tested: **IFLD-S-SA2A-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628382
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

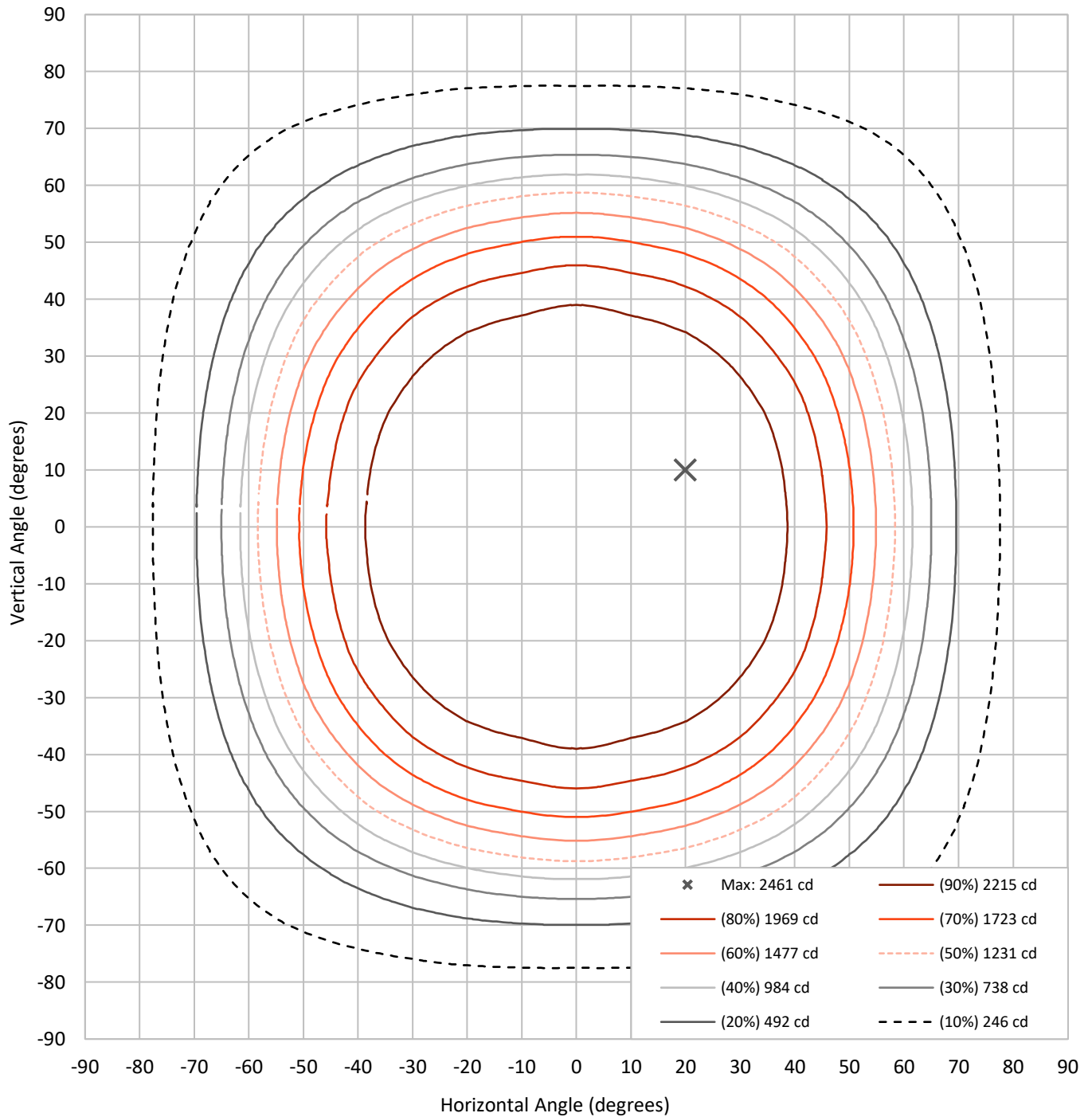
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	7549.9 lumens	Max Intensity:	2461 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	118.3 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:	4632.8 lumens	Field Lumens:	5553.9 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		



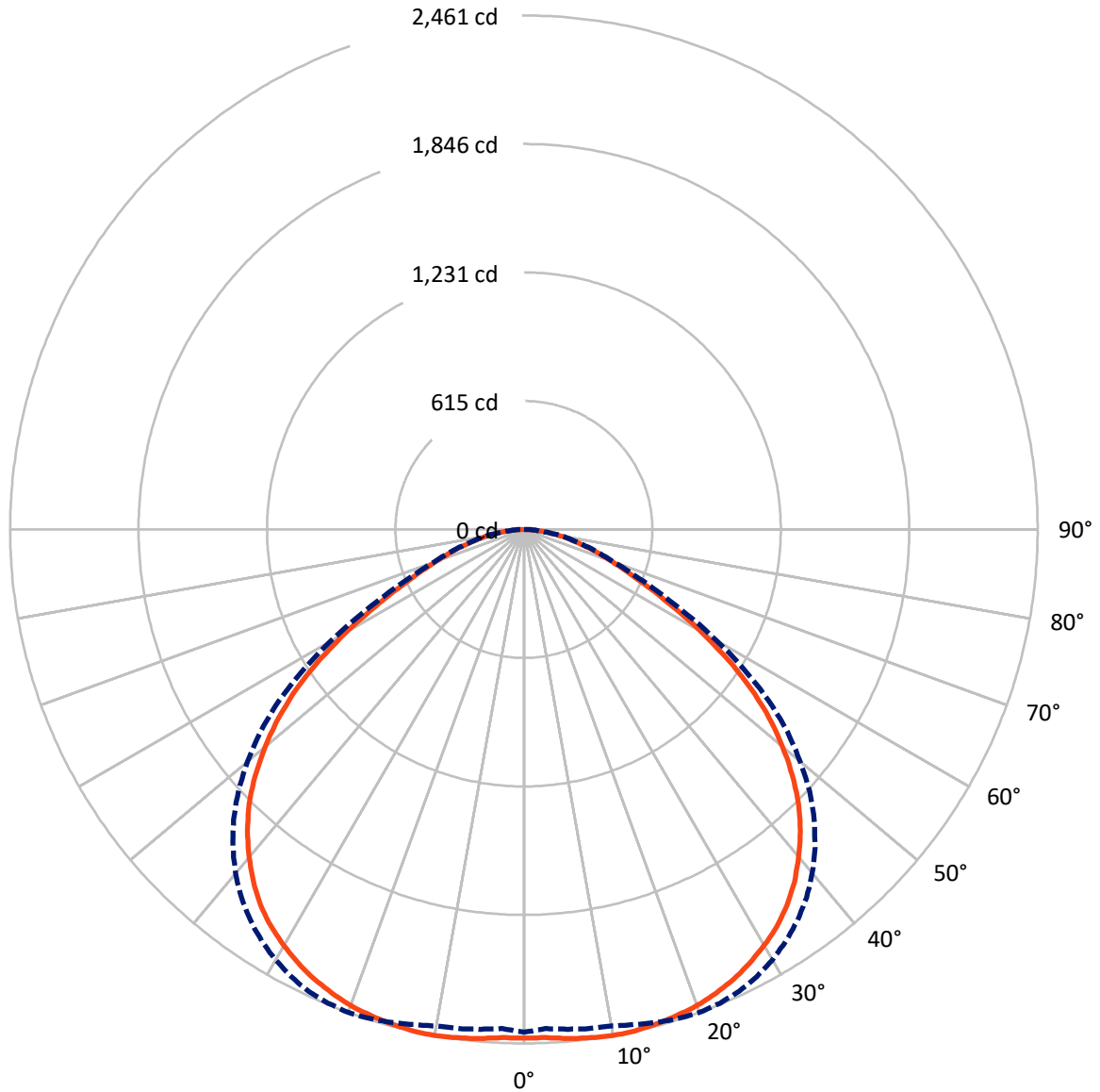
REPORT NUMBER: P628382
CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628382
CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM

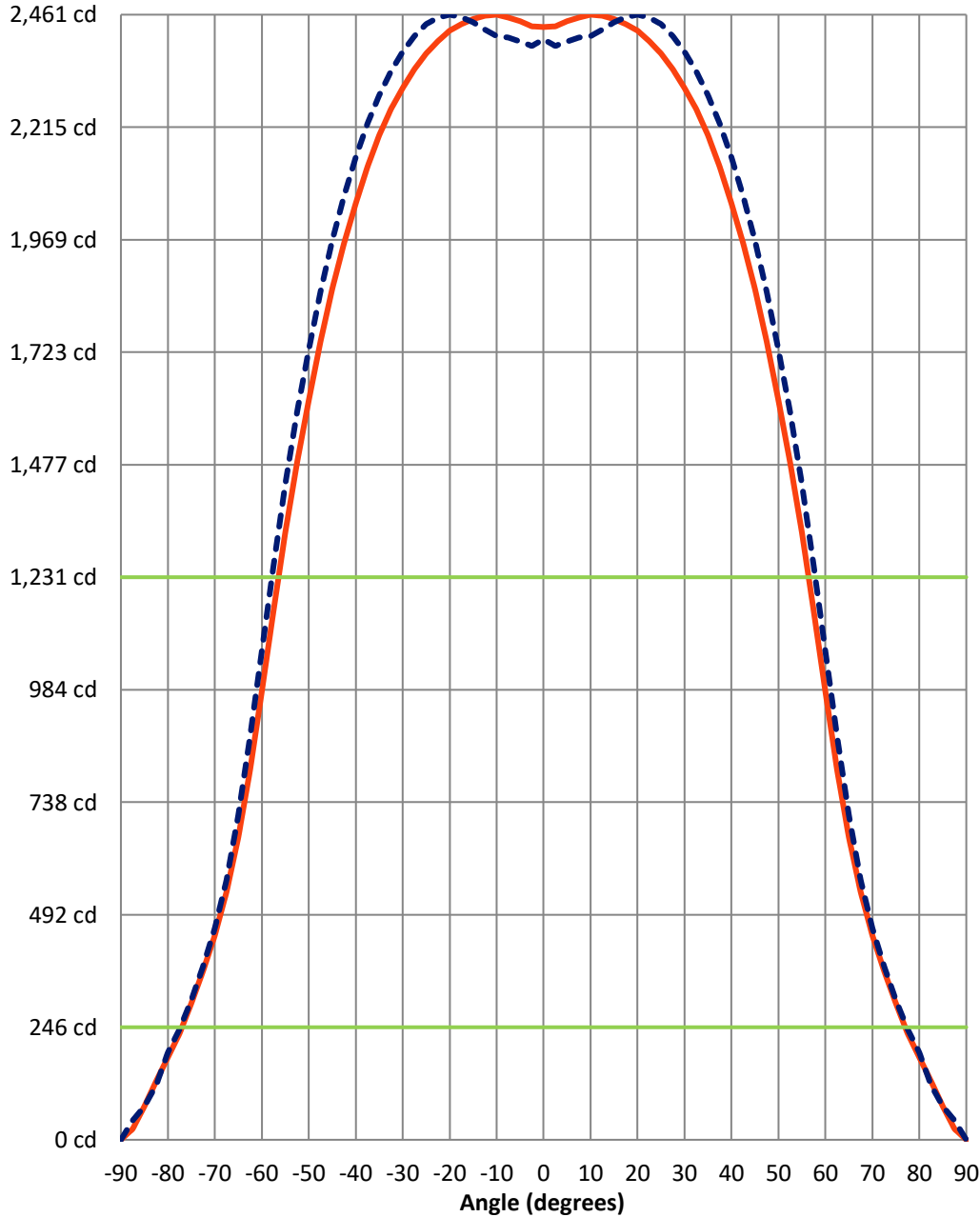
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628382
 CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 4632.8
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 5553.9
 Efficiency: 73.6%

Spill:
 Lumens: 1996
 Efficiency: 26.4%

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



REPORT NUMBER: P628382
 CATALOG NUMBER: IFLD-S-SA2A-830-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°	19.9	21.4	22.2	23.0	23.8	24.6	25.4	24.6	23.8	23.8	23.0
85°	53.2	54.8	55.6	61.2	66.7	69.9	73.9	73.1	73.1	72.3	71.5
82.5°	106.4	111.2	115.2	120.7	123.9	128.7	131.9	129.5	127.9	124.7	122.3
80°	189.1	190.6	191.4	192.2	188.3	187.5	185.9	183.5	180.3	176.4	172.4
77.5°	240.7	242.3	243.9	242.3	241.5	240.7	238.3	235.9	232.8	229.6	224.8
75°	318.5	318.5	318.5	316.2	314.6	312.2	308.2	304.2	298.7	292.3	285.2
72.5°	401.2	400.4	399.6	394.8	390.8	386.1	380.5	375.7	369.4	362.2	352.7
70°	487.7	489.3	490.1	483.8	479.0	472.7	465.5	456.8	447.2	436.9	423.4
67.5°	606.9	605.3	603.7	595.0	588.6	579.9	569.6	556.9	542.6	526.7	507.6
65°	754.7	757.0	752.3	743.5	731.6	717.3	701.4	683.2	661.7	637.9	610.9
62.5°	933.4	937.4	931.8	920.7	905.6	886.5	864.3	838.1	808.7	775.3	741.9
60°	1136.7	1136.0	1125.6	1110.5	1090.7	1066.8	1042.2	1013.6	980.3	941.3	900.8
57.5°	1323.4	1321.8	1309.1	1294.0	1274.2	1248.8	1222.5	1192.4	1157.4	1116.1	1069.2
55°	1491.0	1489.5	1476.7	1460.9	1440.2	1414.8	1390.9	1362.4	1328.2	1284.5	1234.5
52.5°	1639.6	1640.4	1629.3	1611.8	1589.5	1564.9	1541.9	1513.3	1480.7	1437.0	1388.6
50°	1776.2	1775.4	1763.5	1747.6	1727.0	1703.1	1680.1	1651.5	1617.3	1575.2	1528.4
47.5°	1903.3	1901.7	1888.2	1870.7	1849.3	1828.6	1807.2	1781.8	1746.0	1703.9	1657.1
45°	2009.8	2006.6	1993.1	1976.4	1955.7	1937.5	1918.4	1899.3	1861.2	1822.3	1777.8
42.5°	2101.1	2100.3	2086.8	2070.1	2049.5	2033.6	2016.1	1992.3	1960.5	1924.8	1881.1
40°	2188.5	2182.1	2168.6	2152.8	2133.7	2120.2	2102.7	2078.9	2047.9	2012.9	1970.8
37.5°	2253.6	2254.4	2240.1	2222.7	2206.0	2193.3	2177.4	2155.1	2128.1	2094.0	2051.9
35°	2315.6	2311.6	2299.7	2284.6	2269.5	2255.2	2238.5	2219.5	2197.2	2165.5	2125.7
32.5°	2356.1	2361.7	2347.4	2331.5	2322.7	2311.6	2294.2	2274.3	2254.4	2222.7	2186.9
30°	2400.6	2395.8	2384.7	2371.2	2364.8	2357.7	2342.6	2323.5	2300.5	2271.9	2238.5
27.5°	2431.6	2429.2	2415.7	2403.0	2399.8	2393.4	2381.5	2364.8	2341.8	2314.0	2283.0
25°	2445.1	2446.7	2434.0	2426.8	2426.8	2422.8	2413.3	2399.0	2376.0	2350.6	2320.4
22.5°	2451.4	2449.8	2441.1	2439.5	2443.5	2440.3	2436.3	2423.6	2403.0	2382.3	2356.9
20°	2455.4	2444.3	2436.3	2442.7	2447.5	2446.7	2443.5	2435.5	2426.0	2408.5	2386.3
17.5°	2446.7	2439.5	2430.0	2439.5	2449.8	2450.6	2447.5	2442.7	2440.3	2429.2	2409.3
15°	2425.2	2419.7	2421.3	2430.8	2442.7	2446.7	2449.1	2454.6	2451.4	2442.7	2425.2
12.5°	2410.9	2403.8	2410.9	2420.5	2426.8	2429.2	2448.3	2458.6	2458.6	2450.6	2439.5
10°	2407.0	2392.7	2402.2	2410.9	2414.1	2428.4	2444.3	2455.4	2461.0	2454.6	2440.3
7.5°	2399.0	2389.5	2393.4	2397.4	2415.7	2426.0	2434.8	2446.7	2454.6	2453.8	2441.1
5°	2395.0	2383.1	2384.7	2401.4	2414.1	2421.3	2424.4	2434.8	2446.7	2449.1	2439.5
2.5°	2384.7	2379.1	2391.1	2392.7	2402.2	2407.7	2410.9	2420.5	2435.5	2441.1	2437.1
0°	2379.1	2371.2	2363.3	2369.6	2385.5	2397.4	2402.2	2416.5	2434.0	2439.5	2430.8



REPORT NUMBER: P628382
 CATALOG NUMBER: IFLD-S-SA2A-830-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°	22.2	21.4	20.7	19.9	20.7	20.7	20.7	19.9	20.7	19.9	19.9
85°	69.1	65.9	63.5	60.4	57.2	54.8	51.6	48.5	47.7	46.9	45.3
82.5°	119.2	115.2	111.2	106.4	101.7	96.1	90.6	84.2	82.6	81.0	78.6
80°	167.6	162.1	156.5	150.9	146.2	140.6	134.2	127.1	122.3	118.4	113.6
77.5°	218.5	210.5	202.6	193.0	187.5	181.9	175.6	168.4	161.3	154.9	147.8
75°	276.4	267.7	259.8	250.2	239.9	229.6	219.2	209.7	199.4	189.9	180.3
72.5°	340.8	328.1	315.4	303.5	290.7	278.0	264.5	251.8	239.1	226.4	212.9
70°	408.3	392.4	376.5	360.6	344.0	327.3	311.4	295.5	279.6	262.9	247.8
67.5°	487.7	469.5	448.8	426.6	402.0	380.5	359.9	340.8	321.7	302.7	283.6
65°	587.0	561.6	533.8	503.6	475.0	446.4	416.3	387.7	365.4	343.2	321.7
62.5°	709.4	673.6	634.7	595.8	560.8	523.5	488.5	451.2	416.3	384.5	358.3
60°	855.5	807.1	759.4	709.4	660.9	610.1	565.6	519.5	475.8	436.9	398.8
57.5°	1016.8	960.4	903.2	842.0	776.1	716.5	656.2	595.8	544.1	492.5	449.6
55°	1180.4	1120.9	1056.5	987.4	915.1	838.9	757.0	689.5	618.8	558.4	502.8
52.5°	1336.1	1274.2	1207.4	1143.9	1057.3	969.9	880.2	791.2	708.6	631.5	564.0
50°	1475.2	1414.8	1350.4	1276.6	1196.3	1103.4	1003.3	903.2	805.5	714.9	630.7
47.5°	1602.3	1543.5	1479.1	1405.2	1332.2	1228.9	1128.0	1017.6	908.8	804.7	706.2
45°	1721.4	1661.8	1595.1	1524.4	1440.2	1348.1	1244.0	1132.8	1016.0	899.2	785.6
42.5°	1829.4	1769.9	1702.3	1629.3	1545.9	1454.5	1353.6	1241.6	1124.0	996.9	872.2
40°	1924.0	1866.0	1800.8	1724.6	1646.7	1550.6	1451.3	1344.9	1223.3	1095.4	958.0
37.5°	2006.6	1952.6	1888.2	1812.8	1730.1	1644.4	1541.9	1435.4	1325.8	1186.8	1046.2
35°	2079.7	2029.6	1963.7	1892.2	1811.2	1720.6	1624.5	1520.4	1402.1	1271.8	1135.2
32.5°	2143.2	2092.4	2032.0	1960.5	1881.9	1796.9	1698.4	1593.5	1481.5	1348.8	1200.3
30°	2197.2	2148.0	2090.8	2023.3	1947.8	1863.6	1767.5	1661.8	1547.4	1415.6	1268.6
27.5°	2244.1	2197.2	2141.6	2078.9	2006.6	1925.6	1828.6	1722.2	1605.4	1478.3	1331.4
25°	2284.6	2239.3	2187.7	2128.1	2056.6	1977.2	1885.8	1774.6	1657.9	1530.0	1384.6
22.5°	2321.2	2277.5	2225.8	2167.8	2102.7	2023.3	1931.1	1820.7	1702.3	1576.0	1433.0
20°	2353.7	2313.2	2262.4	2202.8	2137.7	2057.4	1966.1	1861.2	1742.1	1618.1	1476.7
17.5°	2379.9	2344.2	2293.4	2230.6	2165.5	2087.6	1998.6	1902.5	1776.2	1653.9	1513.3
15°	2398.2	2363.3	2317.2	2253.6	2190.1	2113.0	2024.1	1924.8	1807.2	1682.5	1543.5
12.5°	2410.9	2373.6	2330.7	2271.9	2208.4	2132.1	2045.5	1947.8	1833.4	1707.9	1569.7
10°	2414.1	2379.9	2337.0	2284.6	2222.7	2148.8	2063.8	1966.9	1854.9	1727.8	1591.1
7.5°	2415.7	2383.1	2344.2	2294.2	2233.0	2161.5	2077.3	1982.0	1870.7	1744.4	1607.0
5°	2414.9	2383.9	2349.0	2300.5	2239.3	2168.6	2086.0	1992.3	1881.9	1755.6	1618.9
2.5°	2412.5	2384.7	2352.1	2305.3	2246.5	2176.6	2094.8	2004.2	1893.8	1765.1	1628.5
0°	2418.9	2395.0	2353.7	2303.7	2248.1	2176.6	2094.0	2005.8	1895.4	1764.3	1627.7



REPORT NUMBER: P628382
 CATALOG NUMBER: IFLD-S-SA2A-830-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°	19.9	19.1	19.1	18.3	17.5	16.7	15.1	14.3	12.7	10.3	7.9
85°	42.9	40.5	38.1	36.5	35.0	33.4	31.0	28.6	25.4	20.7	15.9
82.5°	75.5	70.7	65.9	60.4	55.6	50.8	46.9	42.9	38.1	31.0	23.8
80°	108.0	100.9	93.7	85.8	78.6	70.7	63.5	57.2	50.8	41.3	31.8
77.5°	140.6	131.1	120.7	111.2	100.9	90.6	80.2	71.5	62.0	50.8	39.7
75°	170.8	159.7	150.1	136.6	123.9	110.4	96.9	85.0	73.1	59.6	47.7
72.5°	201.0	186.7	173.2	160.5	146.2	129.5	114.4	99.3	84.2	68.3	54.0
70°	231.2	213.7	197.0	181.9	166.0	149.3	131.1	113.6	95.3	76.3	59.6
67.5°	262.1	242.3	223.2	204.2	185.9	166.8	147.8	127.9	106.4	84.2	65.9
65°	296.3	271.7	248.6	227.2	205.7	185.1	163.6	142.2	118.4	92.9	71.5
62.5°	330.5	303.5	276.4	249.4	225.6	202.6	179.5	155.7	129.5	102.5	77.1
60°	367.0	336.0	305.0	274.9	245.5	220.0	194.6	169.2	141.4	111.2	82.6
57.5°	407.5	370.2	335.2	301.1	267.7	237.5	209.7	182.7	151.7	120.0	89.0
55°	453.6	407.5	366.2	328.1	291.5	255.0	224.8	197.0	163.6	128.7	96.1
52.5°	502.0	448.8	398.8	355.9	317.0	275.6	239.1	208.1	175.6	137.4	102.5
50°	558.4	490.9	435.3	382.9	339.2	296.3	254.2	220.8	187.5	147.8	108.8
47.5°	616.4	541.8	471.9	414.7	363.0	316.2	271.7	232.0	198.6	157.3	115.2
45°	684.0	590.2	513.2	445.6	386.1	336.8	289.2	243.9	208.1	166.8	121.5
42.5°	749.1	647.4	556.1	479.8	412.3	356.7	305.0	256.6	217.7	176.4	127.1
40°	826.1	704.6	597.4	512.4	438.5	375.7	320.9	270.1	226.4	185.1	132.7
37.5°	900.0	762.6	647.4	548.1	463.9	394.8	336.8	282.8	234.3	193.8	139.8
35°	973.1	826.9	695.1	581.5	490.1	416.3	352.7	294.7	242.3	201.0	146.2
32.5°	1043.0	887.3	743.5	618.8	518.7	436.1	367.0	305.8	250.2	207.3	152.5
30°	1108.2	944.5	791.2	656.9	544.9	454.4	380.5	317.0	259.8	212.9	158.9
27.5°	1167.7	1000.1	838.9	692.7	569.6	471.1	394.8	327.3	267.7	218.5	164.4
25°	1221.7	1050.2	882.5	725.3	591.8	489.3	408.3	337.6	274.9	223.2	169.2
22.5°	1272.6	1096.2	922.3	757.8	618.8	507.6	421.0	347.1	282.0	228.0	174.0
20°	1317.1	1138.3	960.4	790.4	642.6	524.3	432.1	355.9	288.4	231.2	178.7
17.5°	1352.8	1175.7	994.6	819.0	663.3	538.6	441.7	363.8	293.9	235.1	181.9
15°	1384.6	1207.4	1023.2	843.6	681.6	550.5	450.4	370.2	298.7	237.5	185.9
12.5°	1411.6	1234.5	1047.8	865.1	697.5	560.8	457.6	374.9	302.7	239.9	188.3
10°	1433.8	1255.9	1068.4	881.8	710.2	568.8	463.1	379.7	305.8	242.3	190.6
7.5°	1450.5	1271.8	1083.5	896.1	720.5	574.3	467.9	382.9	309.0	243.9	194.6
5°	1463.2	1285.3	1095.4	905.6	728.4	582.3	473.4	386.9	312.2	245.5	194.6
2.5°	1472.8	1296.4	1105.0	913.5	734.8	580.7	473.4	386.1	312.2	245.5	193.8
0°	1471.2	1297.2	1104.2	913.5	734.8	579.1	473.4	385.3	312.2	245.5	193.8



REPORT NUMBER: P628382
 CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.6	4.0	1.6	0.0
85°	11.9	7.9	4.0	0.0
82.5°	17.5	11.1	5.6	0.0
80°	23.0	15.1	7.1	0.0
77.5°	29.4	19.1	9.5	0.0
75°	35.0	22.2	11.1	0.0
72.5°	40.5	26.2	12.7	0.0
70°	45.3	29.4	14.3	0.0
67.5°	50.0	33.4	16.7	0.0
65°	54.0	36.5	18.3	0.0
62.5°	57.2	40.5	19.9	0.0
60°	61.2	43.7	21.4	0.0
57.5°	64.3	46.1	23.0	0.0
55°	67.5	47.7	24.6	0.0
52.5°	70.7	50.0	26.2	0.0
50°	73.9	52.4	27.8	0.0
47.5°	77.1	54.0	28.6	0.0
45°	81.8	56.4	30.2	0.0
42.5°	85.8	58.0	31.8	0.0
40°	89.8	59.6	32.6	0.0
37.5°	93.7	61.2	34.2	0.0
35°	97.7	62.8	35.0	0.0
32.5°	100.9	64.3	35.7	0.0
30°	104.1	65.9	36.5	0.0
27.5°	107.2	66.7	37.3	0.0
25°	109.6	68.3	38.1	0.0
22.5°	112.0	69.1	38.9	0.0
20°	113.6	69.9	39.7	0.0
17.5°	116.0	70.7	40.5	0.0
15°	116.8	71.5	42.1	0.0
12.5°	118.4	72.3	42.1	0.0
10°	119.2	73.1	42.1	0.0
7.5°	120.7	73.1	42.1	0.0
5°	120.0	73.1	42.1	0.0
2.5°	120.0	73.1	42.1	0.0
0°	119.2	73.1	42.1	0.0

(END OF REPORT)