

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: P628393

Luminaire Tested: **IFLD-S-SA6B-830-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

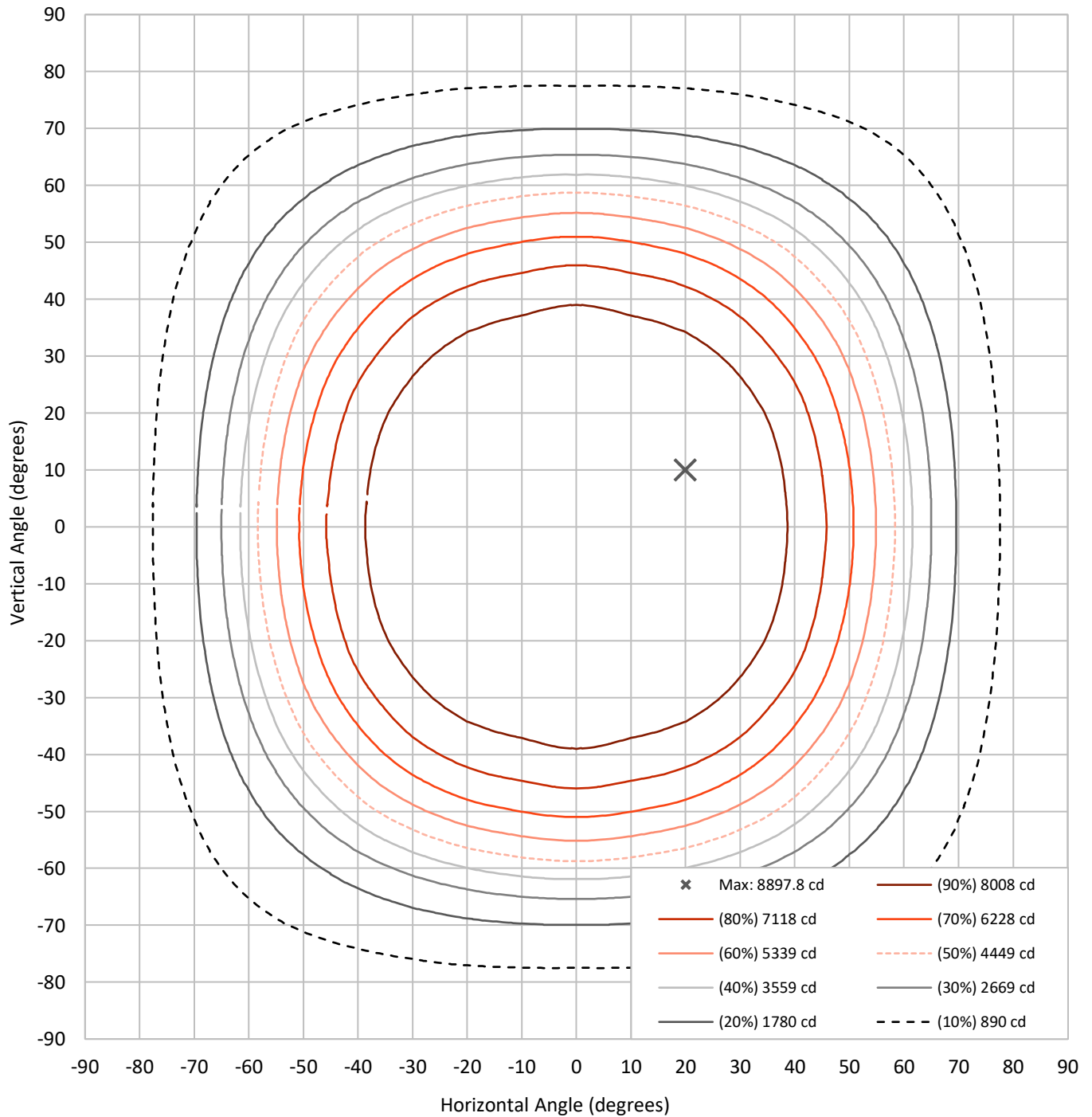
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27297.2 lumens	Max Intensity:	8897.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	111.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	16750.1 lumens	Field Lumens:	20080.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 244.9
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: P628393
CATALOG NUMBER: IFLD-S-SA6B-830-U-LAM

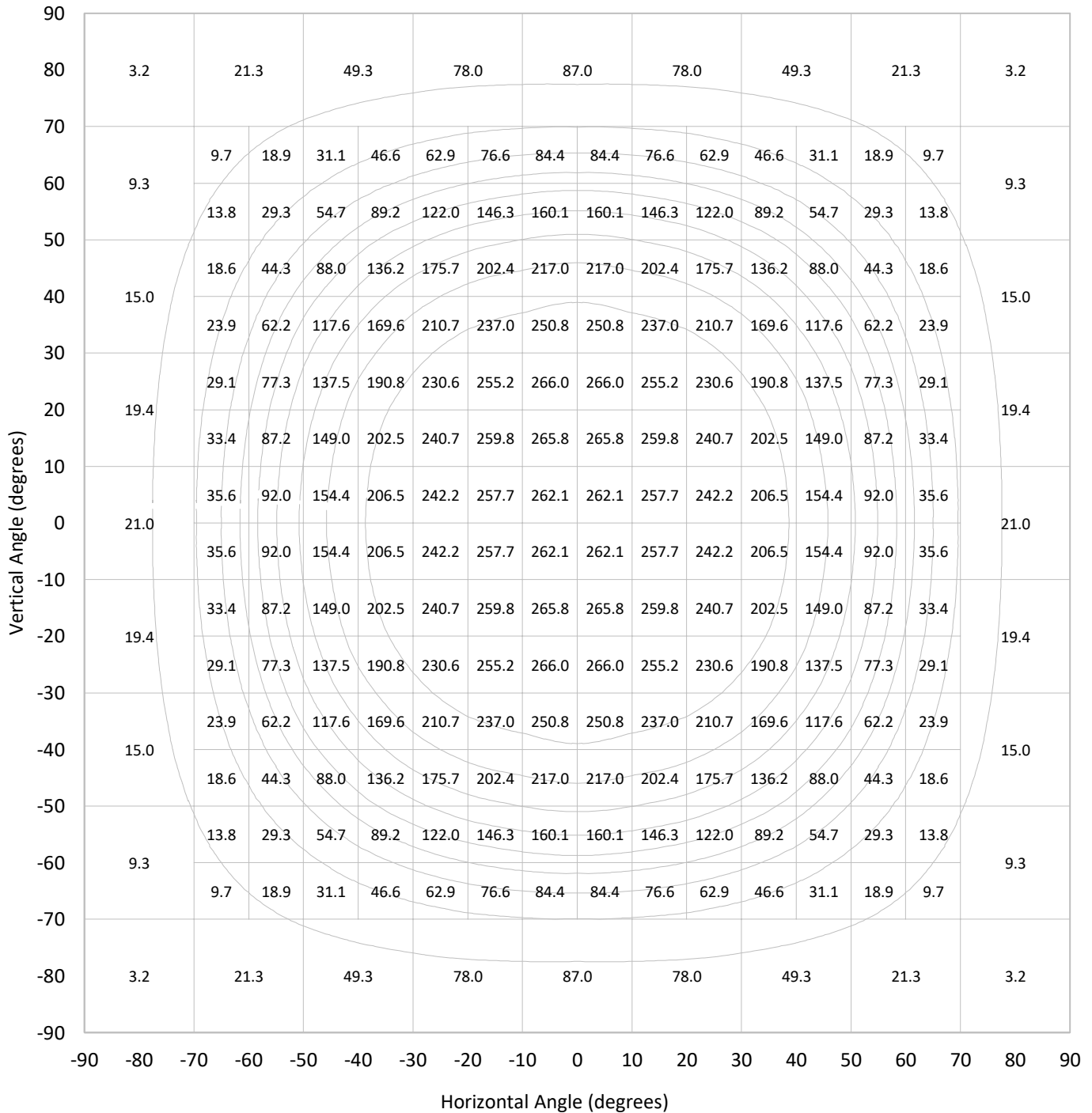
Iso-Candela Plot





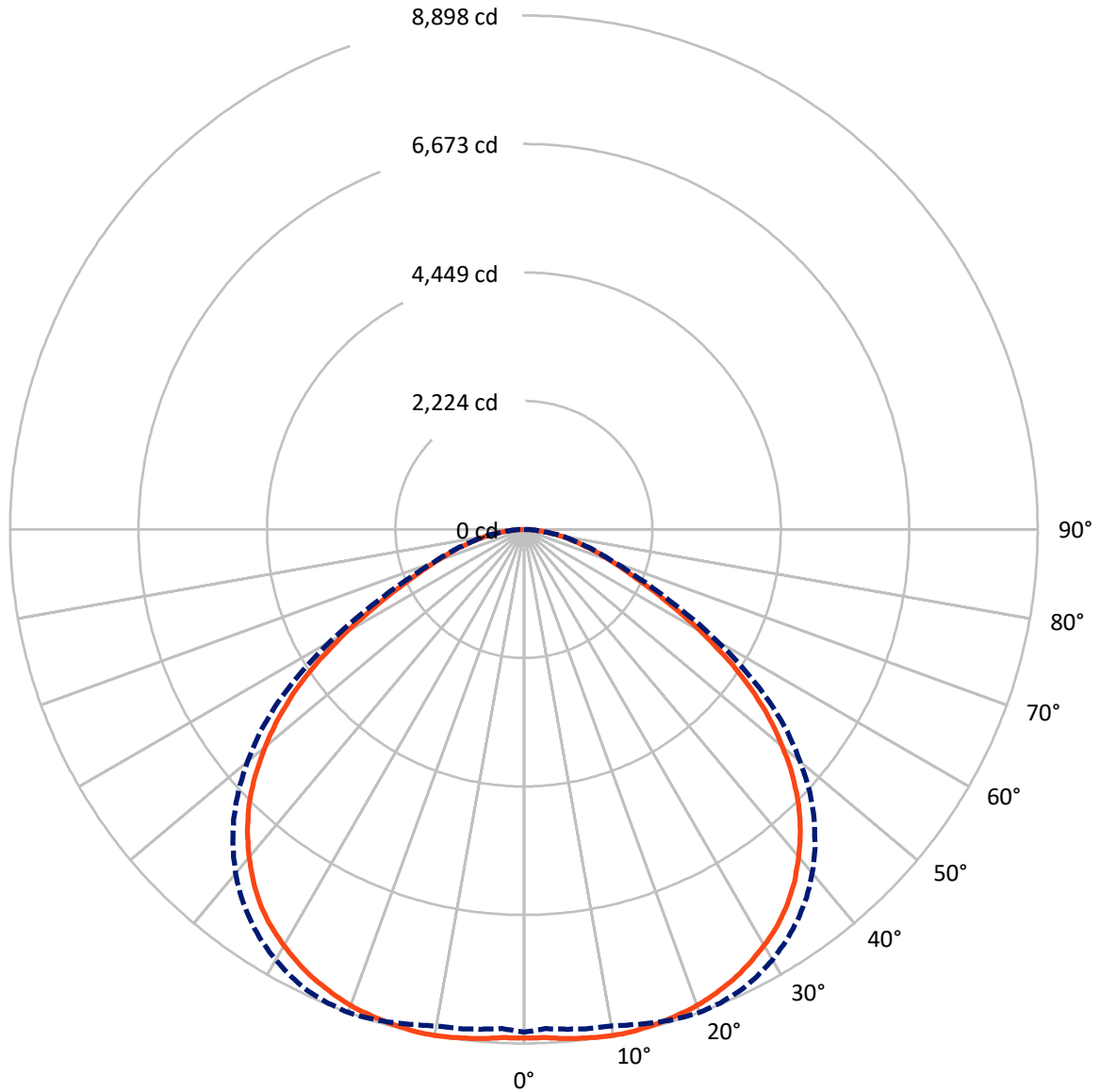
REPORT NUMBER: P628393
 CATALOG NUMBER: IFLD-S-SA6B-830-U-LAM

Lumen Table



REPORT NUMBER: P628393
CATALOG NUMBER: IFLD-S-SA6B-830-U-LAM

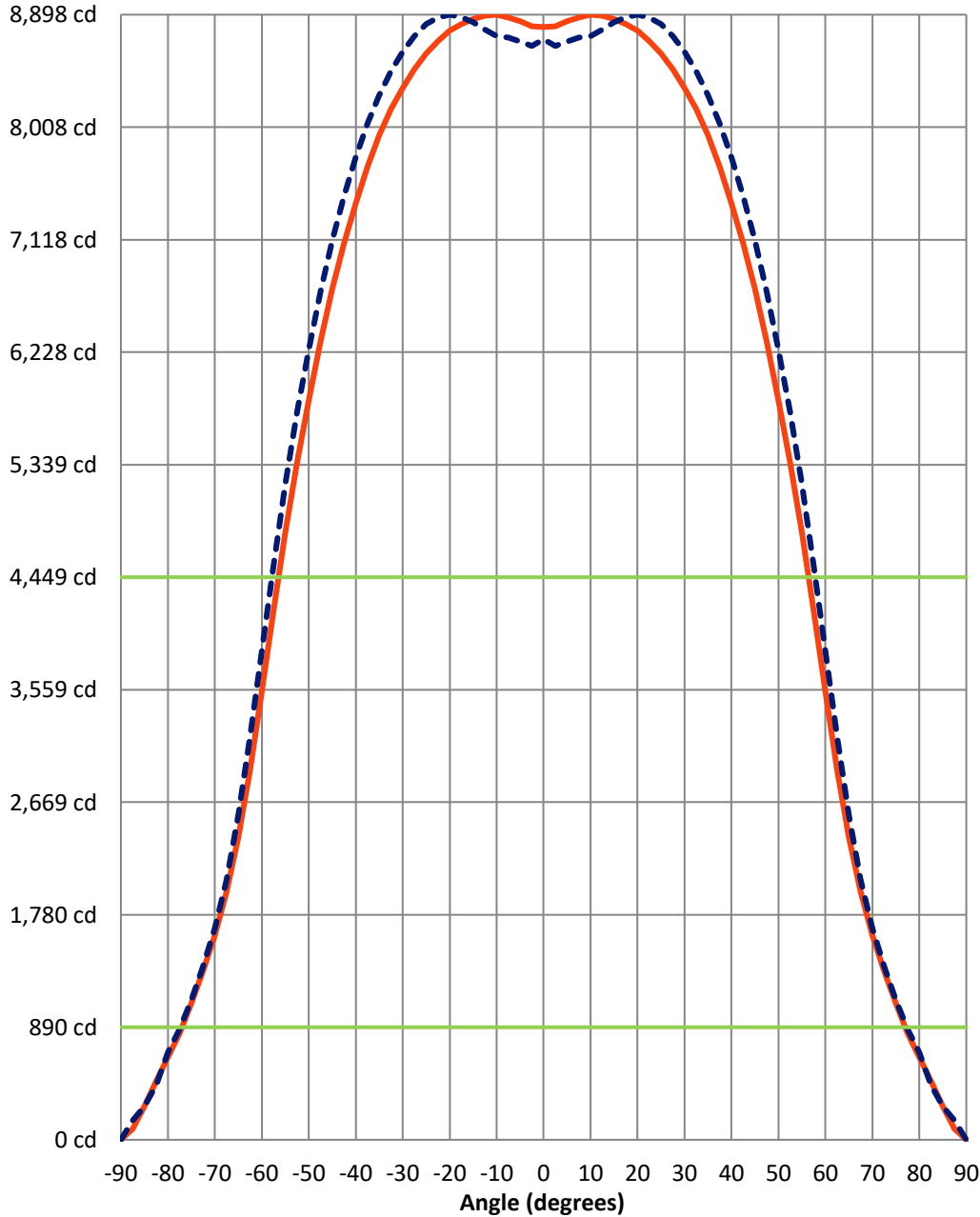
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628393
 CATALOG NUMBER: IFLD-S-SA6B-830-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 16750.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 20080.5
 Efficiency: 73.6%

Spill:
 Lumens: 7216.7
 Efficiency: 26.4%

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



REPORT NUMBER: P628393
 CATALOG NUMBER: IFLD-S-SA6B-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°	71.8	77.5	80.4	83.3	86.2	89.0	91.9	89.0	86.2	86.2	83.3
85°	192.4	198.2	201.0	221.2	241.3	252.7	267.1	264.2	261.4	261.4	258.5
82.5°	384.9	402.1	416.5	436.6	448.0	465.3	476.8	468.2	450.9	450.9	442.3
80°	683.6	689.3	692.2	695.1	680.7	677.8	672.1	663.5	637.6	637.6	623.2
77.5°	870.2	876.0	881.7	876.0	873.1	870.2	861.6	853.0	830.0	830.0	812.8
75°	1151.7	1151.7	1151.7	1143.1	1137.4	1128.7	1114.4	1100.0	1056.9	1056.9	1031.1
72.5°	1450.4	1447.5	1444.7	1427.4	1413.1	1395.8	1375.7	1358.5	1309.7	1309.7	1275.2
70°	1763.5	1769.2	1772.1	1749.1	1731.9	1708.9	1683.1	1651.5	1579.7	1579.7	1530.8
67.5°	2194.3	2188.5	2182.8	2151.2	2128.2	2096.6	2059.3	2013.3	1904.2	1904.2	1835.3
65°	2728.5	2737.1	2719.9	2688.3	2645.2	2593.5	2536.1	2470.0	2306.3	2306.3	2208.7
62.5°	3374.7	3389.1	3369.0	3328.8	3274.2	3205.3	3124.9	3030.1	2803.2	2803.2	2682.5
60°	4110.0	4107.1	4069.8	4015.2	3943.4	3857.2	3768.2	3664.8	3403.4	3403.4	3257.0
57.5°	4784.9	4779.2	4733.2	4678.7	4606.9	4515.0	4420.2	4311.0	4035.3	4035.3	3865.9
55°	5390.9	5385.2	5339.2	5281.8	5207.1	5115.2	5029.1	4925.7	4644.2	4644.2	4463.3
52.5°	5928.0	5930.9	5890.7	5827.5	5747.1	5658.1	5574.8	5471.4	5195.6	5195.6	5020.4
50°	6422.0	6419.2	6376.1	6318.6	6244.0	6157.8	6074.5	5971.1	5695.4	5695.4	5525.9
47.5°	6881.6	6875.8	6827.0	6763.8	6686.3	6611.6	6534.0	6442.1	6160.7	6160.7	5991.2
45°	7266.4	7254.9	7206.1	7145.8	7071.1	7005.1	6936.1	6867.2	6588.6	6588.6	6427.8
42.5°	7596.7	7593.9	7545.0	7484.7	7410.0	7352.6	7289.4	7203.2	6959.1	6959.1	6801.2
40°	7912.7	7889.7	7840.9	7783.4	7714.5	7665.7	7602.5	7516.3	7277.9	7277.9	7125.7
37.5°	8148.2	8151.0	8099.3	8036.2	7975.8	7929.9	7872.4	7792.0	7570.9	7570.9	7418.7
35°	8372.2	8357.8	8314.8	8260.2	8205.6	8153.9	8093.6	8024.7	7829.4	7829.4	7685.8
32.5°	8518.7	8538.8	8487.1	8429.6	8398.0	8357.8	8294.6	8222.8	8036.2	8036.2	7906.9
30°	8679.5	8662.3	8622.1	8573.2	8550.3	8524.4	8469.8	8400.9	8214.2	8214.2	8093.6
27.5°	8791.5	8782.9	8734.1	8688.1	8676.6	8653.7	8610.6	8550.3	8366.5	8366.5	8254.4
25°	8840.3	8846.1	8800.1	8774.3	8774.3	8759.9	8725.5	8673.8	8498.6	8498.6	8389.4
22.5°	8863.3	8857.6	8826.0	8820.2	8834.6	8823.1	8808.8	8762.8	8613.5	8613.5	8521.5
20°	8877.7	8837.5	8808.8	8831.7	8849.0	8846.1	8834.6	8805.9	8708.2	8708.2	8627.8
17.5°	8846.1	8820.2	8785.8	8820.2	8857.6	8860.5	8849.0	8831.7	8782.9	8782.9	8711.1
15°	8768.5	8748.4	8754.2	8788.7	8831.7	8846.1	8854.7	8874.8	8831.7	8831.7	8768.5
12.5°	8716.8	8691.0	8716.8	8751.3	8774.3	8782.9	8851.8	8889.2	8860.5	8860.5	8820.2
10°	8702.5	8650.8	8685.3	8716.8	8728.3	8780.0	8837.5	8877.7	8874.8	8874.8	8823.1
7.5°	8673.8	8639.3	8653.7	8668.0	8734.1	8771.4	8803.0	8846.1	8819.9	8819.9	8826.0
5°	8659.4	8616.3	8622.1	8682.4	8728.3	8754.2	8765.7	8803.0	8854.7	8854.7	8820.2
2.5°	8622.1	8602.0	8645.0	8650.8	8685.3	8705.4	8716.8	8751.3	8826.0	8826.0	8811.6
0°	8602.0	8573.2	8544.5	8567.5	8624.9	8668.0	8685.3	8737.0	8820.2	8820.2	8788.7



REPORT NUMBER: P628393
 CATALOG NUMBER: IFLD-S-SA6B-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°	80.4	77.5	74.7	71.8	74.7	74.7	74.7	71.8	74.7	71.8	71.8
85°	249.9	238.4	229.8	218.3	206.8	198.2	186.7	175.2	172.3	169.5	163.7
82.5°	430.8	416.5	402.1	384.9	367.6	347.5	327.4	304.4	298.7	293.0	284.3
80°	606.0	585.9	565.8	545.7	528.5	508.4	485.4	459.5	442.3	427.9	410.7
77.5°	789.8	761.1	732.4	697.9	677.8	657.7	634.7	608.9	583.0	560.1	534.2
75°	999.5	967.9	939.2	904.7	867.4	830.0	792.7	758.2	720.9	686.4	652.0
72.5°	1232.1	1186.2	1140.2	1097.1	1051.2	1005.2	956.4	910.5	864.5	818.6	769.7
70°	1476.3	1418.8	1361.4	1303.9	1243.6	1183.3	1125.9	1068.4	1011.0	950.7	896.1
67.5°	1763.5	1697.4	1622.7	1542.3	1453.3	1375.7	1301.1	1232.1	1163.2	1094.3	1025.3
65°	2122.5	2030.6	1930.1	1820.9	1717.5	1614.1	1505.0	1401.6	1321.2	1240.8	1163.2
62.5°	2564.8	2435.5	2294.8	2154.1	2027.7	1892.7	1766.3	1631.4	1505.0	1390.1	1295.3
60°	3093.3	2918.1	2745.7	2564.8	2389.6	2205.8	2044.9	1878.4	1720.4	1579.7	1441.8
57.5°	3676.3	3472.4	3265.6	3044.4	2806.0	2590.6	2372.4	2154.1	1967.4	1780.7	1625.6
55°	4268.0	4052.5	3819.9	3570.0	3308.7	3032.9	2737.1	2493.0	2237.4	2019.1	1818.0
52.5°	4830.9	4606.9	4365.6	4135.8	3822.8	3506.8	3182.3	2860.6	2561.9	2283.3	2039.2
50°	5333.5	5115.2	4882.6	4615.5	4325.4	3989.4	3627.5	3265.6	2912.3	2584.9	2280.5
47.5°	5793.0	5580.5	5347.9	5080.8	4816.5	4443.2	4078.4	3679.2	3285.7	2909.4	2553.3
45°	6223.9	6008.4	5767.2	5511.6	5207.1	4874.0	4497.7	4095.6	3673.4	3251.2	2840.5
42.5°	6614.5	6399.1	6154.9	5890.7	5589.1	5258.8	4894.1	4489.1	4064.0	3604.5	3153.6
40°	6956.2	6746.6	6511.1	6235.3	5953.9	5606.4	5247.3	4862.5	4423.0	3960.6	3463.8
37.5°	7254.9	7059.6	6827.0	6554.2	6255.5	5945.3	5574.8	5189.9	4793.5	4290.9	3782.6
35°	7519.2	7338.2	7099.9	6841.4	6548.4	6221.0	5873.5	5497.2	5069.3	4598.2	4104.2
32.5°	7748.9	7565.1	7346.9	7088.4	6804.0	6496.7	6140.6	5761.4	5356.5	4876.8	4339.8
30°	7944.3	7766.2	7559.4	7315.3	7042.4	6738.0	6390.4	6008.4	5594.9	5118.1	4586.8
27.5°	8113.7	7944.3	7743.2	7516.3	7254.9	6962.0	6611.6	6226.7	5804.5	5345.0	4813.7
25°	8260.2	8096.5	7909.8	7694.4	7435.9	7148.7	6818.4	6416.3	5994.1	5531.7	5006.1
22.5°	8392.3	8234.3	8047.6	7838.0	7602.5	7315.3	6982.1	6582.9	6154.9	5698.3	5181.3
20°	8510.1	8363.6	8179.8	7964.4	7728.8	7438.8	7108.5	6729.3	6298.5	5850.5	5339.2
17.5°	8604.8	8475.6	8291.8	8064.9	7829.4	7547.9	7226.2	6878.7	6422.0	5979.7	5471.4
15°	8670.9	8544.5	8377.9	8148.2	7918.4	7639.8	7318.1	6959.1	6534.0	6083.1	5580.5
12.5°	8716.8	8581.9	8426.8	8214.2	7984.5	7708.7	7395.7	7042.4	6628.8	6175.0	5675.3
10°	8728.3	8604.8	8449.7	8260.2	8036.2	7769.1	7461.7	7111.3	6706.4	6246.8	5752.8
7.5°	8734.1	8616.3	8475.6	8294.6	8073.5	7815.0	7510.6	7165.9	6763.8	6307.1	5810.3
5°	8731.2	8619.2	8492.8	8317.6	8096.5	7840.9	7542.2	7203.2	6804.0	6347.4	5853.4
2.5°	8722.6	8622.1	8504.3	8334.9	8122.3	7869.6	7573.7	7246.3	6847.1	6381.8	5887.8
0°	8745.6	8659.4	8510.1	8329.1	8128.1	7869.6	7570.9	7252.1	6852.8	6379.0	5884.9



REPORT NUMBER: P628393
 CATALOG NUMBER: IFLD-S-SA6B-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°	71.8	68.9	68.9	66.1	63.2	60.3	54.6	51.7	46.0	37.3	28.7
85°	155.1	146.5	137.9	132.1	126.4	120.6	112.0	103.4	91.9	74.7	57.4
82.5°	272.9	255.6	238.4	218.3	201.0	183.8	169.5	155.1	137.9	112.0	86.2
80°	390.6	364.8	338.9	310.2	284.3	255.6	229.8	206.8	183.8	149.3	114.9
77.5°	508.4	473.9	436.6	402.1	364.8	327.4	290.1	258.5	224.0	183.8	143.6
75°	617.5	577.3	542.8	494.0	448.0	399.2	350.4	307.3	264.2	215.4	172.3
72.5°	726.6	674.9	626.1	580.2	528.5	468.2	413.6	359.0	304.4	247.0	195.3
70°	835.8	772.6	712.3	657.7	600.3	540.0	473.9	410.7	344.7	275.7	215.4
67.5°	947.8	876.0	807.1	738.1	672.1	603.1	534.2	462.4	384.9	304.4	238.4
65°	1071.3	982.3	899.0	821.4	743.9	669.2	591.7	514.1	427.9	336.0	258.5
62.5°	1194.8	1097.1	999.5	901.8	815.7	732.4	649.1	562.9	468.2	370.5	278.6
60°	1326.9	1214.9	1102.9	993.7	887.5	795.6	703.7	611.8	511.2	402.1	298.7
57.5°	1473.4	1338.4	1212.0	1088.5	967.9	858.8	758.2	660.6	548.6	433.7	321.7
55°	1640.0	1473.4	1324.0	1186.2	1054.1	921.9	812.8	712.3	591.7	465.3	347.5
52.5°	1815.2	1622.7	1441.8	1286.7	1146.0	996.6	864.5	752.5	634.7	496.9	370.5
50°	2019.1	1775.0	1573.9	1384.4	1226.4	1071.3	919.1	798.4	677.8	534.2	393.5
47.5°	2228.8	1958.8	1706.0	1499.2	1312.6	1143.1	982.3	838.7	718.0	568.7	416.5
45°	2472.9	2134.0	1855.4	1611.3	1395.8	1217.8	1045.4	881.7	752.5	603.1	439.4
42.5°	2708.4	2340.8	2010.5	1734.8	1490.6	1289.6	1102.9	927.7	787.0	637.6	459.5
40°	2987.0	2547.6	2159.8	1852.5	1585.4	1358.5	1160.3	976.5	818.6	669.2	479.6
37.5°	3254.1	2757.2	2340.8	1981.8	1677.3	1427.4	1217.8	1022.5	847.3	700.8	505.5
35°	3518.3	2989.9	2513.1	2102.4	1772.1	1505.0	1275.2	1065.6	876.0	726.6	528.5
32.5°	3771.1	3208.1	2688.3	2237.4	1875.5	1576.8	1326.9	1105.8	904.7	749.6	551.4
30°	4006.6	3414.9	2860.6	2375.2	1970.3	1642.8	1375.7	1146.0	939.2	769.7	574.4
27.5°	4222.0	3616.0	3032.9	2504.5	2059.3	1703.2	1427.4	1183.3	967.9	789.8	594.5
25°	4417.3	3796.9	3190.9	2622.2	2139.7	1769.2	1476.3	1220.6	993.7	807.1	611.8
22.5°	4601.1	3963.5	3334.5	2740.0	2237.4	1835.3	1522.2	1255.1	1019.6	824.3	629.0
20°	4762.0	4115.7	3472.4	2857.7	2323.5	1895.6	1562.4	1286.7	1042.6	835.8	646.2
17.5°	4891.2	4250.7	3595.9	2961.1	2398.2	1947.3	1596.9	1315.4	1062.7	850.1	657.7
15°	5006.1	4365.6	3699.3	3050.2	2464.3	1990.4	1628.5	1338.4	1079.9	858.8	672.1
12.5°	5103.7	4463.3	3788.3	3127.7	2521.7	2027.7	1654.3	1355.6	1094.3	867.4	680.7
10°	5184.2	4540.8	3863.0	3188.0	2567.7	2056.4	1674.4	1372.9	1105.8	876.0	689.3
7.5°	5244.5	4598.2	3917.6	3239.7	2605.0	2076.5	1691.7	1384.4	1117.2	881.7	703.7
5°	5290.4	4647.1	3960.6	3274.2	2633.7	2105.3	1711.8	1398.7	1128.7	887.5	703.7
2.5°	5324.9	4687.3	3995.1	3302.9	2656.7	2099.5	1711.8	1395.8	1128.7	887.5	700.8
0°	5319.1	4690.2	3992.2	3302.9	2656.7	2093.8	1711.8	1393.0	1128.7	887.5	700.8



REPORT NUMBER: P628393
 CATALOG NUMBER: IFLD-S-SA6B-830-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.1	14.4	5.7	0.0
85°	43.1	28.7	14.4	0.0
82.5°	63.2	40.2	20.1	0.0
80°	83.3	54.6	25.8	0.0
77.5°	106.3	68.9	34.5	0.0
75°	126.4	80.4	40.2	0.0
72.5°	146.5	94.8	46.0	0.0
70°	163.7	106.3	51.7	0.0
67.5°	180.9	120.6	60.3	0.0
65°	195.3	132.1	66.1	0.0
62.5°	206.8	146.5	71.8	0.0
60°	221.2	158.0	77.5	0.0
57.5°	232.6	166.6	83.3	0.0
55°	244.1	172.3	89.0	0.0
52.5°	255.6	180.9	94.8	0.0
50°	267.1	189.6	100.5	0.0
47.5°	278.6	195.3	103.4	0.0
45°	295.8	203.9	109.1	0.0
42.5°	310.2	209.7	114.9	0.0
40°	324.5	215.4	117.8	0.0
37.5°	338.9	221.2	123.5	0.0
35°	353.3	226.9	126.4	0.0
32.5°	364.8	232.6	129.2	0.0
30°	376.2	238.4	132.1	0.0
27.5°	387.7	241.3	135.0	0.0
25°	396.4	247.0	137.9	0.0
22.5°	405.0	249.9	140.7	0.0
20°	410.7	252.7	143.6	0.0
17.5°	419.3	255.6	146.5	0.0
15°	422.2	258.5	152.2	0.0
12.5°	427.9	261.4	152.2	0.0
10°	430.8	264.2	152.2	0.0
7.5°	436.6	264.2	152.2	0.0
5°	433.7	264.2	152.2	0.0
2.5°	433.7	264.2	152.2	0.0
0°	430.8	264.2	152.2	0.0

(END OF REPORT)