

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: P628249

Luminaire Tested: **IFLD-S-SA6C-735-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628249
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	42178.1 lumens	Max Intensity:	13748.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	131.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

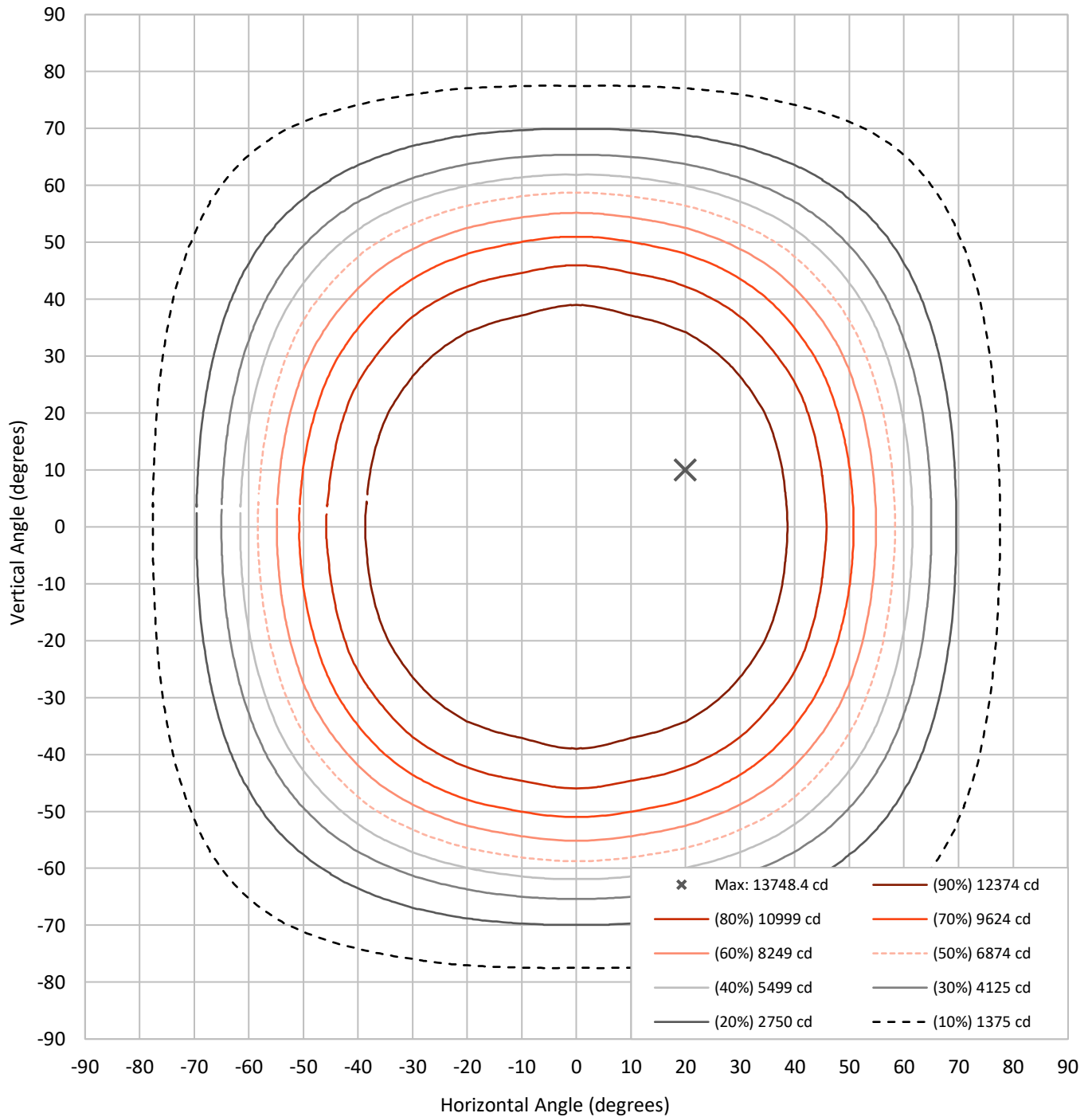
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	25881.3 lumens	Field Lumens:	31027.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 321.5
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



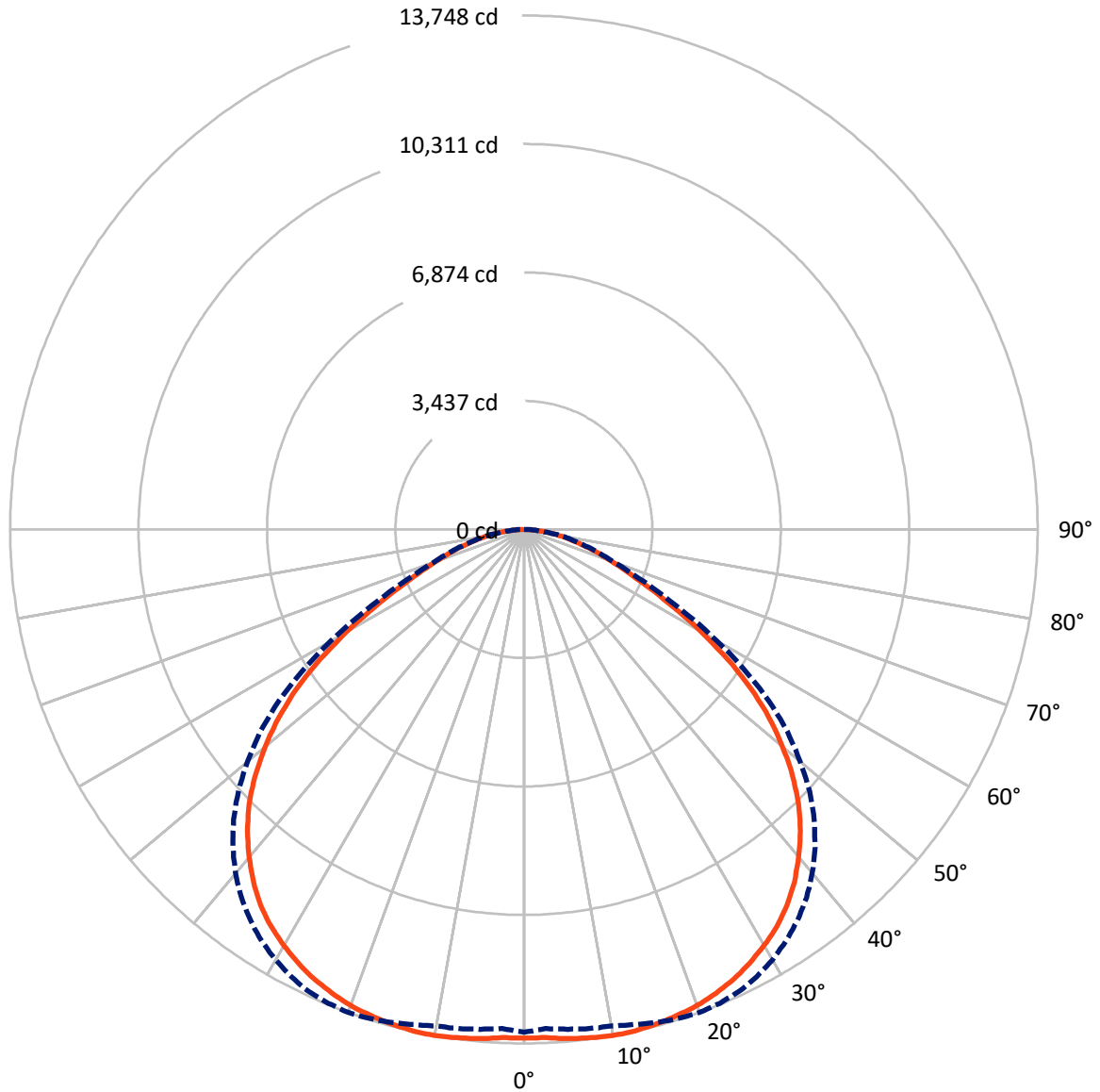
REPORT NUMBER: P628249
CATALOG NUMBER: IFLD-S-SA6C-735-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628249
CATALOG NUMBER: IFLD-S-SA6C-735-U-LAM

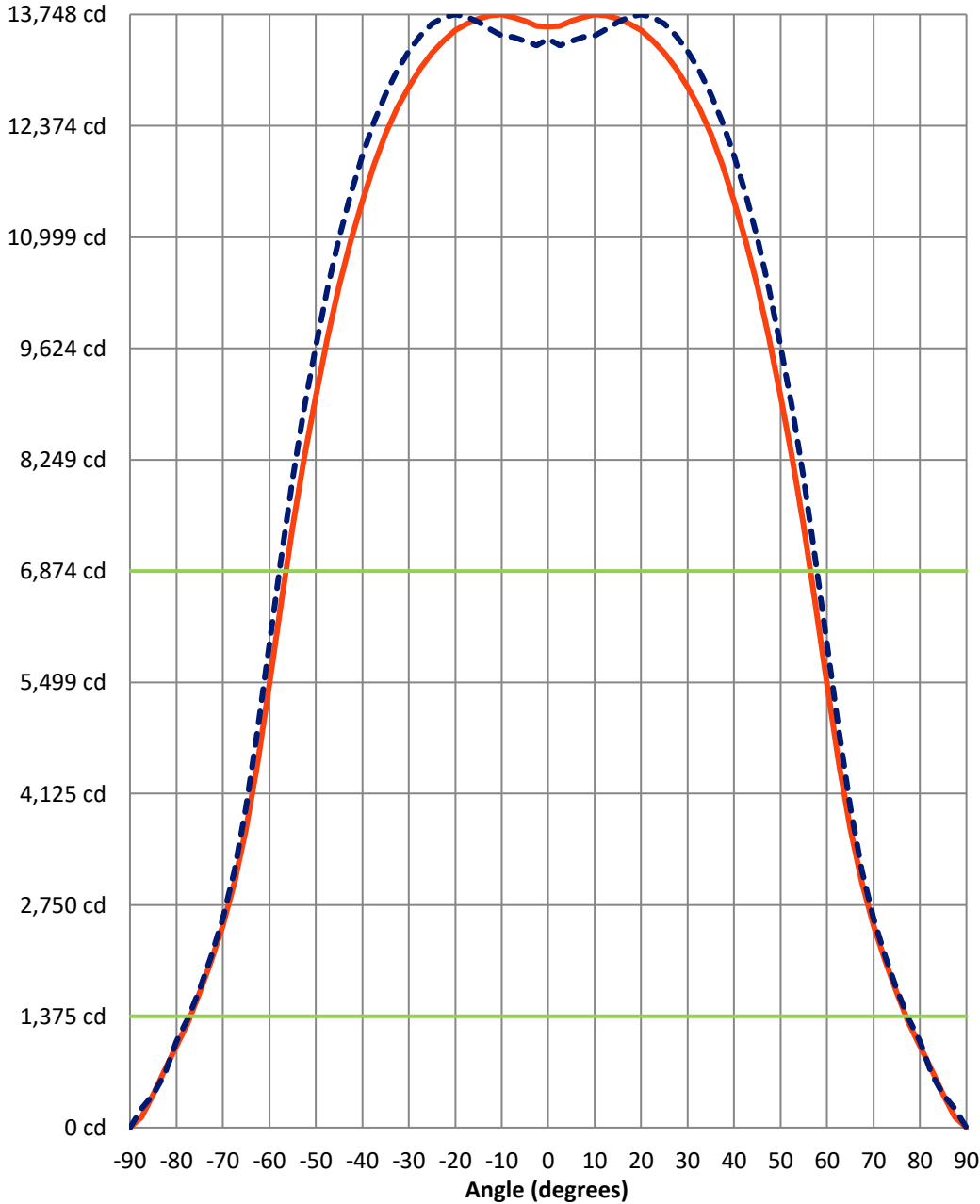
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628249
 CATALOG NUMBER: IFLD-S-SA6C-735-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 25881.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 31027.3
 Efficiency: 73.6%

Spill:
 Lumens: 11150.8
 Efficiency: 26.4%

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



REPORT NUMBER: P628249
 CATALOG NUMBER: IFLD-S-SA6C-735-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°	110.9	119.8	124.3	128.7	133.1	137.6	142.0	137.6	133.1	133.1	128.7
85°	297.3	306.2	310.6	341.7	372.8	390.5	412.7	408.3	408.3	403.8	399.4
82.5°	594.7	621.3	643.5	674.5	692.3	718.9	736.7	723.4	714.5	696.7	683.4
80°	1056.2	1065.1	1069.5	1074.0	1051.8	1047.3	1038.4	1025.1	1007.4	985.2	963.0
77.5°	1344.7	1353.5	1362.4	1353.5	1349.1	1344.7	1331.3	1318.0	1300.3	1282.5	1255.9
75°	1779.6	1779.6	1779.6	1766.3	1757.4	1744.1	1721.9	1699.7	1668.6	1633.1	1593.2
72.5°	2241.1	2236.7	2232.2	2205.6	2183.4	2156.8	2125.7	2099.1	2063.6	2023.6	1970.4
70°	2724.8	2733.7	2738.1	2702.6	2676.0	2640.5	2600.6	2551.7	2498.5	2440.8	2365.4
67.5°	3390.5	3381.6	3372.7	3323.9	3288.4	3239.6	3181.9	3110.9	3031.0	2942.3	2835.8
65°	4215.9	4229.2	4202.6	4153.8	4087.2	4007.3	3918.6	3816.5	3696.7	3563.6	3412.7
62.5°	5214.4	5236.6	5205.6	5143.4	5059.1	4952.6	4828.3	4681.9	4517.7	4331.3	4144.9
60°	6350.5	6346.1	6288.4	6204.1	6093.1	5960.0	5822.4	5662.7	5476.3	5258.8	5032.5
57.5°	7393.4	7384.5	7313.5	7229.2	7118.3	6976.2	6829.8	6661.2	6465.9	6235.1	5973.3
55°	8329.8	8320.9	8249.9	8161.1	8045.8	7903.7	7770.6	7610.9	7420.0	7175.9	6896.4
52.5°	9159.6	9164.1	9102.0	9004.3	8880.1	8742.5	8613.8	8454.0	8272.1	8028.0	7757.3
50°	9923.0	9918.5	9851.9	9763.2	9647.8	9514.7	9386.0	9226.2	9035.4	8800.2	8538.4
47.5°	10633.0	10624.1	10548.7	10451.1	10331.2	10215.8	10096.0	9954.0	9754.3	9519.1	9257.3
45°	11227.7	11209.9	11134.5	11041.3	10925.9	10823.8	10717.3	10610.8	10397.8	10180.3	9931.8
42.5°	11738.0	11733.6	11658.1	11564.9	11449.6	11360.8	11263.2	11130.0	10952.5	10752.8	10508.7
40°	12226.2	12190.7	12115.2	12026.5	11920.0	11844.5	11746.9	11613.8	11440.7	11245.4	11010.2
37.5°	12590.1	12594.5	12514.6	12417.0	12323.8	12252.8	12164.1	12039.8	11888.9	11698.1	11462.9
35°	12936.2	12914.0	12847.5	12763.2	12678.8	12599.0	12505.8	12399.3	12275.0	12097.5	11875.6
32.5°	13162.6	13193.6	13113.7	13025.0	12976.2	12914.0	12816.4	12705.5	12594.5	12417.0	12217.3
30°	13411.1	13384.4	13322.3	13246.9	13211.4	13171.4	13087.1	12980.6	12851.9	12692.2	12505.8
27.5°	13584.2	13570.8	13495.4	13424.4	13406.6	13371.1	13304.6	13211.4	13082.7	12927.4	12754.3
25°	13659.6	13668.5	13597.5	13557.5	13557.5	13535.3	13482.1	13402.2	13273.5	13131.5	12962.9
22.5°	13695.1	13686.2	13637.4	13628.5	13650.7	13633.0	13610.8	13539.8	13424.4	13309.0	13167.0
20°	13717.3	13655.2	13610.8	13646.3	13672.9	13668.5	13650.7	13606.3	13553.1	13455.5	13331.2
17.5°	13668.5	13628.5	13575.3	13628.5	13686.2	13690.7	13672.9	13646.3	13633.0	13570.8	13459.9
15°	13548.6	13517.6	13526.5	13579.7	13646.3	13668.5	13681.8	13712.8	13695.1	13646.3	13548.6
12.5°	13468.8	13428.8	13468.8	13522.0	13557.5	13570.8	13677.3	13735.0	13735.0	13690.7	13628.5
10°	13446.6	13366.7	13420.0	13468.8	13486.5	13566.4	13655.2	13717.3	13748.4	13712.8	13633.0
7.5°	13402.2	13348.9	13371.1	13393.3	13495.4	13553.1	13601.9	13668.5	13712.8	13708.4	13637.4
5°	13380.0	13313.4	13322.3	13415.5	13486.5	13526.5	13544.2	13601.9	13668.5	13681.8	13628.5
2.5°	13322.3	13291.3	13357.8	13366.7	13420.0	13451.0	13468.8	13522.0	13606.3	13637.4	13615.2
0°	13291.3	13246.9	13202.5	13238.0	13326.8	13393.3	13420.0	13499.8	13597.5	13628.5	13579.7



REPORT NUMBER: P628249
 CATALOG NUMBER: IFLD-S-SA6C-735-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°	124.3	119.8	115.4	110.9	115.4	115.4	115.4	110.9	115.4	110.9	110.9
85°	386.1	368.3	355.0	337.3	319.5	306.2	288.5	270.7	266.3	261.8	253.0
82.5°	665.7	643.5	621.3	594.7	568.0	537.0	505.9	470.4	461.5	452.7	439.3
80°	936.4	905.3	874.2	843.2	816.6	785.5	750.0	710.1	683.4	661.2	634.6
77.5°	1220.4	1176.0	1131.6	1078.4	1047.3	1016.3	980.8	940.8	900.9	865.4	825.4
75°	1544.4	1495.5	1451.2	1397.9	1340.2	1282.5	1224.8	1171.6	1113.9	1060.6	1007.4
72.5°	1903.8	1832.8	1761.8	1695.2	1624.2	1553.2	1477.8	1406.8	1335.8	1264.8	1189.3
70°	2281.0	2192.3	2103.5	2014.8	1921.6	1828.4	1739.6	1650.9	1562.1	1468.9	1384.6
67.5°	2724.8	2622.7	2507.4	2383.1	2245.5	2125.7	2010.3	1903.8	1797.3	1690.8	1584.3
65°	3279.5	3137.5	2982.2	2813.6	2653.8	2494.1	2325.4	2165.7	2041.4	1917.1	1797.3
62.5°	3963.0	3763.3	3545.8	3328.4	3133.1	2924.5	2729.3	2520.7	2325.4	2147.9	2001.5
60°	4779.5	4508.8	4242.6	3963.0	3692.3	3408.2	3159.7	2902.3	2658.3	2440.8	2227.8
57.5°	5680.4	5365.3	5045.8	4704.1	4335.7	4002.9	3665.6	3328.4	3039.9	2751.4	2511.8
55°	6594.6	6261.8	5902.3	5516.2	5112.4	4686.3	4229.2	3852.0	3457.1	3119.8	2809.1
52.5°	7464.4	7118.3	6745.5	6390.5	5906.7	5418.6	4917.1	4420.1	3958.5	3528.1	3150.8
50°	8241.0	7903.7	7544.3	7131.6	6683.3	6164.1	5605.0	5045.8	4499.9	3994.0	3523.6
47.5°	8951.1	8622.7	8263.2	7850.5	7442.2	6865.3	6301.7	5684.8	5076.9	4495.5	3945.2
45°	9616.7	9283.9	8911.1	8516.2	8045.8	7531.0	6949.6	6328.3	5676.0	5023.6	4389.0
42.5°	10220.3	9887.5	9510.2	9102.0	8636.0	8125.6	7562.0	6936.3	6279.5	5569.5	4872.7
40°	10748.4	10424.4	10060.5	9634.5	9199.6	8662.6	8107.9	7513.2	6834.2	6119.7	5352.0
37.5°	11209.9	10908.1	10548.7	10127.1	9665.6	9186.3	8613.8	8019.1	7406.7	6630.1	5844.6
35°	11618.2	11338.6	10970.3	10570.9	10118.2	9612.3	9075.3	8494.0	7832.7	7104.9	6341.6
32.5°	11973.2	11689.2	11351.9	10952.5	10513.2	10038.3	9488.0	8902.3	8276.5	7535.4	6705.5
30°	12275.0	11999.9	11680.3	11303.1	10881.5	10411.1	9874.1	9283.9	8644.9	7908.2	7087.2
27.5°	12536.8	12275.0	11964.3	11613.8	11209.9	10757.3	10215.8	9621.2	8968.8	8258.8	7437.8
25°	12763.2	12510.2	12221.7	11888.9	11489.5	11045.7	10535.4	9914.1	9261.7	8547.2	7735.1
22.5°	12967.3	12723.2	12434.8	12110.8	11746.9	11303.1	10788.3	10171.5	9510.2	8804.6	8005.8
20°	13149.2	12922.9	12638.9	12306.1	11942.2	11493.9	10983.6	10397.8	9732.1	9039.8	8249.9
17.5°	13295.7	13096.0	12812.0	12461.4	12097.5	11662.6	11165.5	10628.6	9923.0	9239.5	8454.0
15°	13397.8	13202.5	12945.1	12590.1	12235.1	11804.6	11307.6	10752.8	10096.0	9399.3	8622.7
12.5°	13468.8	13260.2	13020.5	12692.2	12337.1	11911.1	11427.4	10881.5	10242.5	9541.3	8769.1
10°	13486.5	13295.7	13056.1	12763.2	12417.0	12004.3	11529.4	10988.0	10362.3	9652.2	8888.9
7.5°	13495.4	13313.4	13096.0	12816.4	12474.7	12075.3	11604.9	11072.3	10451.1	9745.4	8977.7
5°	13491.0	13317.9	13122.6	12851.9	12510.2	12115.2	11653.7	11130.0	10513.2	9807.6	9044.3
2.5°	13477.6	13322.3	13140.4	12878.5	12550.1	12159.6	11702.5	11196.6	10579.8	9860.8	9097.5
0°	13513.1	13380.0	13149.2	12869.7	12559.0	12159.6	11698.1	11205.5	10588.6	9856.4	9093.1



REPORT NUMBER: P628249
 CATALOG NUMBER: IFLD-S-SA6C-735-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°	110.9	106.5	106.5	102.1	97.6	93.2	84.3	79.9	71.0	57.7	44.4
85°	239.6	226.3	213.0	204.1	195.3	186.4	173.1	159.8	142.0	115.4	88.8
82.5°	421.6	395.0	368.3	337.3	310.6	284.0	261.8	239.6	213.0	173.1	133.1
80°	603.5	563.6	523.7	479.3	439.3	395.0	355.0	319.5	284.0	230.8	177.5
77.5°	785.5	732.2	674.5	621.3	563.6	505.9	448.2	399.4	346.1	284.0	221.9
75°	954.1	892.0	838.7	763.3	692.3	616.9	541.4	474.8	408.3	332.8	266.3
72.5°	1122.8	1042.9	967.4	896.4	816.6	723.4	639.0	554.7	470.4	381.7	301.8
70°	1291.4	1193.8	1100.6	1016.3	927.5	834.3	732.2	634.6	532.5	426.0	332.8
67.5°	1464.5	1353.5	1247.0	1140.5	1038.4	931.9	825.4	714.5	594.7	470.4	368.3
65°	1655.3	1517.7	1389.0	1269.2	1149.4	1034.0	914.2	794.4	661.2	519.2	399.4
62.5°	1846.1	1695.2	1544.4	1393.5	1260.3	1131.6	1002.9	869.8	723.4	572.5	430.5
60°	2050.3	1877.2	1704.1	1535.5	1371.3	1229.3	1087.3	945.3	789.9	621.3	461.5
57.5°	2276.6	2068.0	1872.8	1681.9	1495.5	1326.9	1171.6	1020.7	847.6	670.1	497.0
55°	2534.0	2276.6	2045.8	1832.8	1628.7	1424.5	1255.9	1100.6	914.2	718.9	537.0
52.5°	2804.7	2507.4	2227.8	1988.1	1770.7	1539.9	1335.8	1162.7	980.8	767.7	572.5
50°	3119.8	2742.6	2431.9	2139.0	1894.9	1655.3	1420.1	1233.7	1047.3	825.4	608.0
47.5°	3443.7	3026.6	2636.1	2316.5	2028.1	1766.3	1517.7	1295.8	1109.5	878.7	643.5
45°	3821.0	3297.3	2866.8	2489.6	2156.8	1881.6	1615.4	1362.4	1162.7	931.9	679.0
42.5°	4184.9	3616.8	3106.5	2680.4	2303.2	1992.6	1704.1	1433.4	1216.0	985.2	710.1
40°	4615.3	3936.3	3337.2	2862.4	2449.7	2099.1	1792.9	1508.9	1264.8	1034.0	741.1
37.5°	5028.0	4260.3	3616.8	3062.1	2591.7	2205.6	1881.6	1579.9	1309.2	1082.8	781.1
35°	5436.3	4619.8	3883.1	3248.5	2738.1	2325.4	1970.4	1646.4	1353.5	1122.8	816.6
32.5°	5826.9	4957.0	4153.8	3457.1	2897.9	2436.4	2050.3	1708.6	1397.9	1158.3	852.1
30°	6190.8	5276.6	4420.1	3670.1	3044.3	2538.4	2125.7	1770.7	1451.2	1189.3	887.6
27.5°	6523.6	5587.2	4686.3	3869.8	3181.9	2631.6	2205.6	1828.4	1495.5	1220.4	918.6
25°	6825.4	5866.8	4930.4	4051.7	3306.2	2733.7	2281.0	1886.1	1535.5	1247.0	945.3
22.5°	7109.4	6124.2	5152.3	4233.7	3457.1	2835.8	2352.0	1939.3	1575.4	1273.7	971.9
20°	7357.9	6359.4	5365.3	4415.6	3590.2	2929.0	2414.2	1988.1	1610.9	1291.4	998.5
17.5°	7557.6	6568.0	5556.1	4575.4	3705.6	3008.8	2467.4	2032.5	1642.0	1313.6	1016.3
15°	7735.1	6745.5	5715.9	4713.0	3807.6	3075.4	2516.2	2068.0	1668.6	1326.9	1038.4
12.5°	7886.0	6896.4	5853.5	4832.8	3896.4	3133.1	2556.2	2094.6	1690.8	1340.2	1051.8
10°	8010.3	7016.2	5968.9	4926.0	3967.4	3177.5	2587.2	2121.3	1708.6	1353.5	1065.1
7.5°	8103.4	7104.9	6053.2	5005.9	4025.1	3208.5	2613.9	2139.0	1726.3	1362.4	1087.3
5°	8174.5	7180.4	6119.7	5059.1	4069.5	3252.9	2644.9	2161.2	1744.1	1371.3	1087.3
2.5°	8227.7	7242.5	6173.0	5103.5	4105.0	3244.0	2644.9	2156.8	1744.1	1371.3	1082.8
0°	8218.8	7247.0	6168.6	5103.5	4105.0	3235.2	2644.9	2152.3	1744.1	1371.3	1082.8



REPORT NUMBER: P628249
 CATALOG NUMBER: IFLD-S-SA6C-735-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	31.1	22.2	8.9	0.0
85°	66.6	44.4	22.2	0.0
82.5°	97.6	62.1	31.1	0.0
80°	128.7	84.3	39.9	0.0
77.5°	164.2	106.5	53.3	0.0
75°	195.3	124.3	62.1	0.0
72.5°	226.3	146.4	71.0	0.0
70°	253.0	164.2	79.9	0.0
67.5°	279.6	186.4	93.2	0.0
65°	301.8	204.1	102.1	0.0
62.5°	319.5	226.3	110.9	0.0
60°	341.7	244.1	119.8	0.0
57.5°	359.5	257.4	128.7	0.0
55°	377.2	266.3	137.6	0.0
52.5°	395.0	279.6	146.4	0.0
50°	412.7	292.9	155.3	0.0
47.5°	430.5	301.8	159.8	0.0
45°	457.1	315.1	168.6	0.0
42.5°	479.3	324.0	177.5	0.0
40°	501.5	332.8	182.0	0.0
37.5°	523.7	341.7	190.8	0.0
35°	545.9	350.6	195.3	0.0
32.5°	563.6	359.5	199.7	0.0
30°	581.4	368.3	204.1	0.0
27.5°	599.1	372.8	208.6	0.0
25°	612.4	381.7	213.0	0.0
22.5°	625.7	386.1	217.5	0.0
20°	634.6	390.5	221.9	0.0
17.5°	647.9	395.0	226.3	0.0
15°	652.4	399.4	235.2	0.0
12.5°	661.2	403.8	235.2	0.0
10°	665.7	408.3	235.2	0.0
7.5°	674.5	408.3	235.2	0.0
5°	670.1	408.3	235.2	0.0
2.5°	670.1	408.3	235.2	0.0
0°	665.7	408.3	235.2	0.0

(END OF REPORT)