

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: P628263

Luminaire Tested: **IFLD-L-SA8B-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628263  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	41312.1 lumens	Max Intensity:	13466.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	129.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

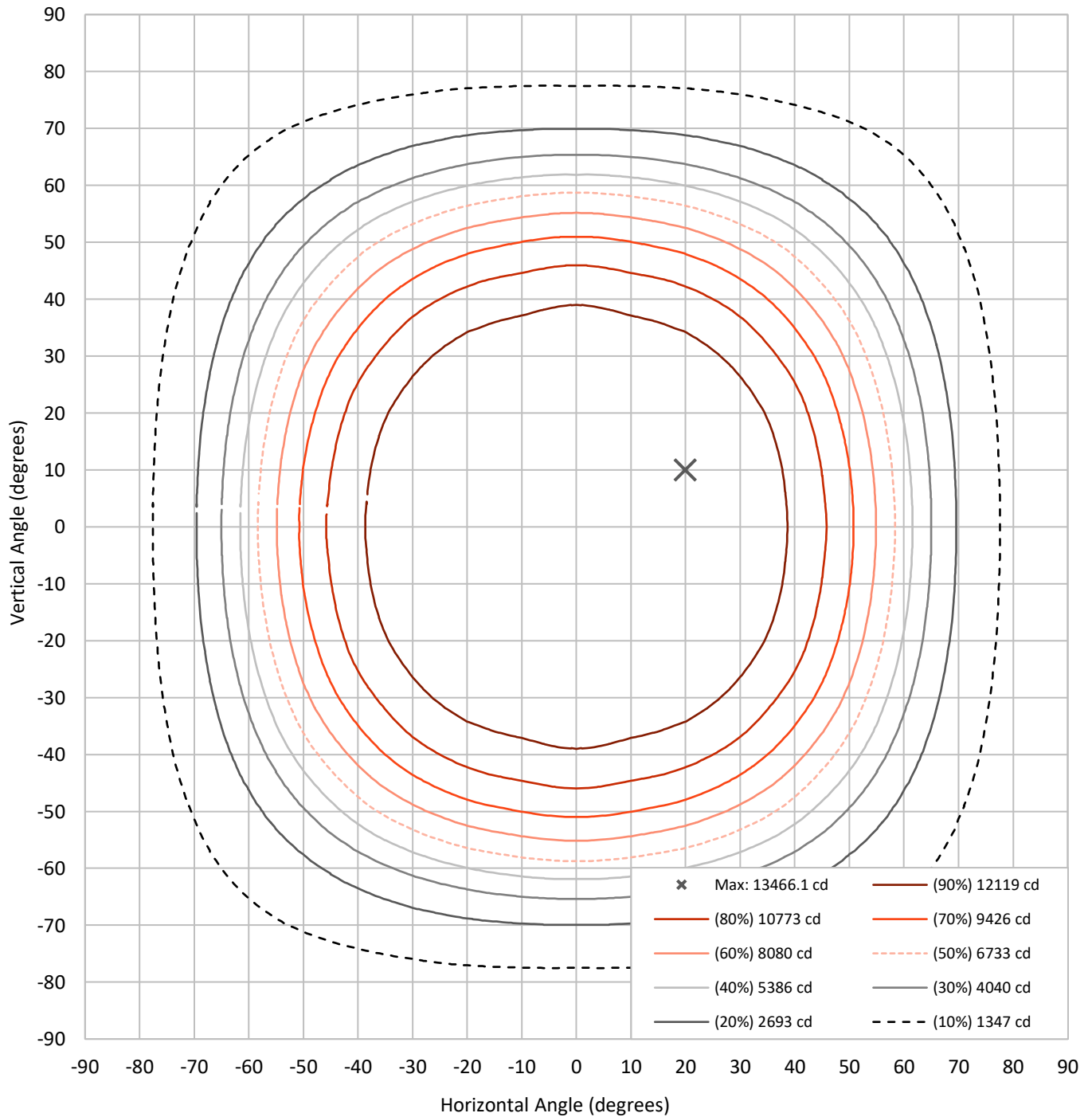
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	25349.9 lumens	Field Lumens:	30390.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 320  
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: P628263  
CATALOG NUMBER: IFLD-L-SA8B-735-U-LAM

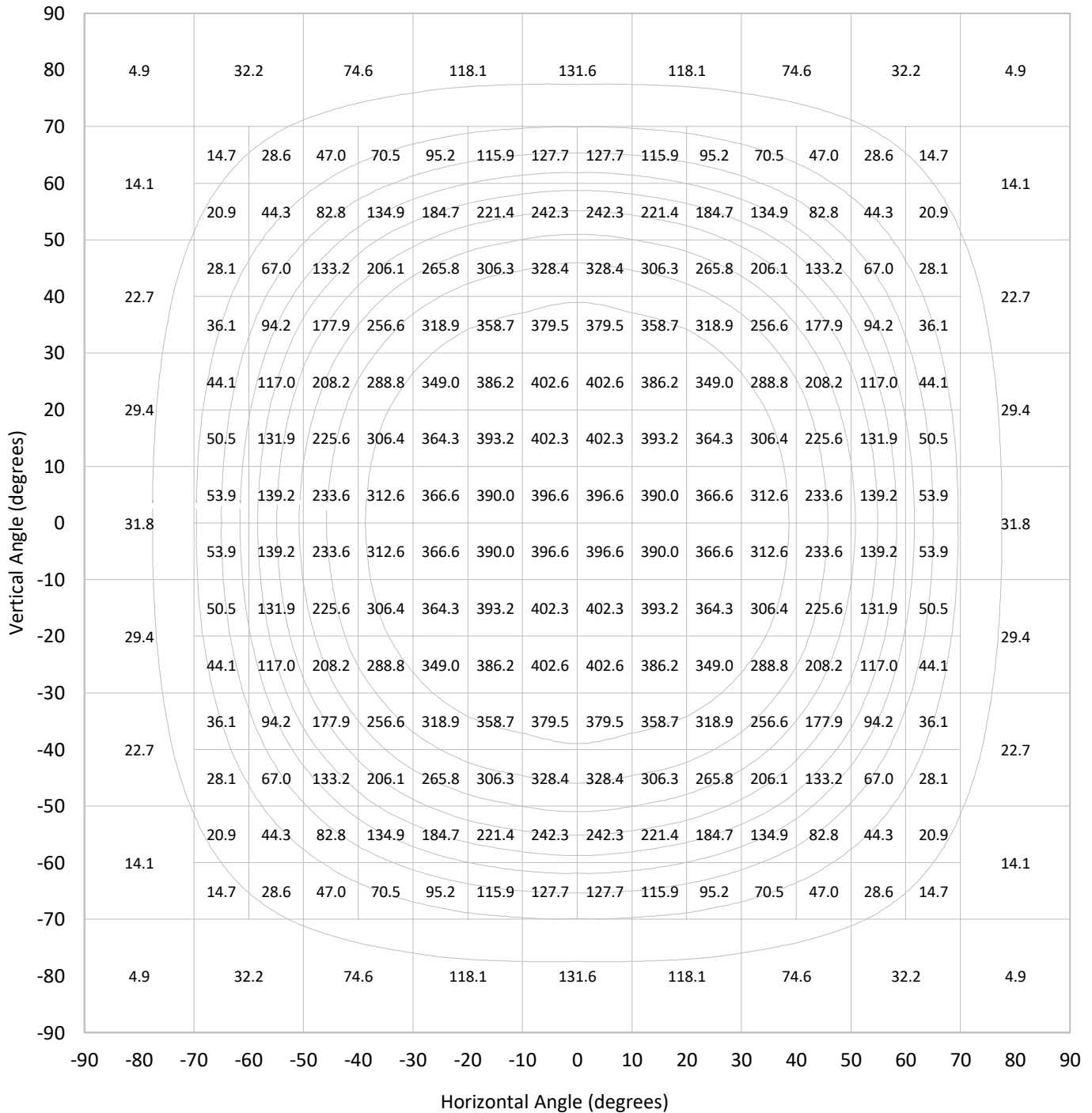
### Iso-Candela Plot





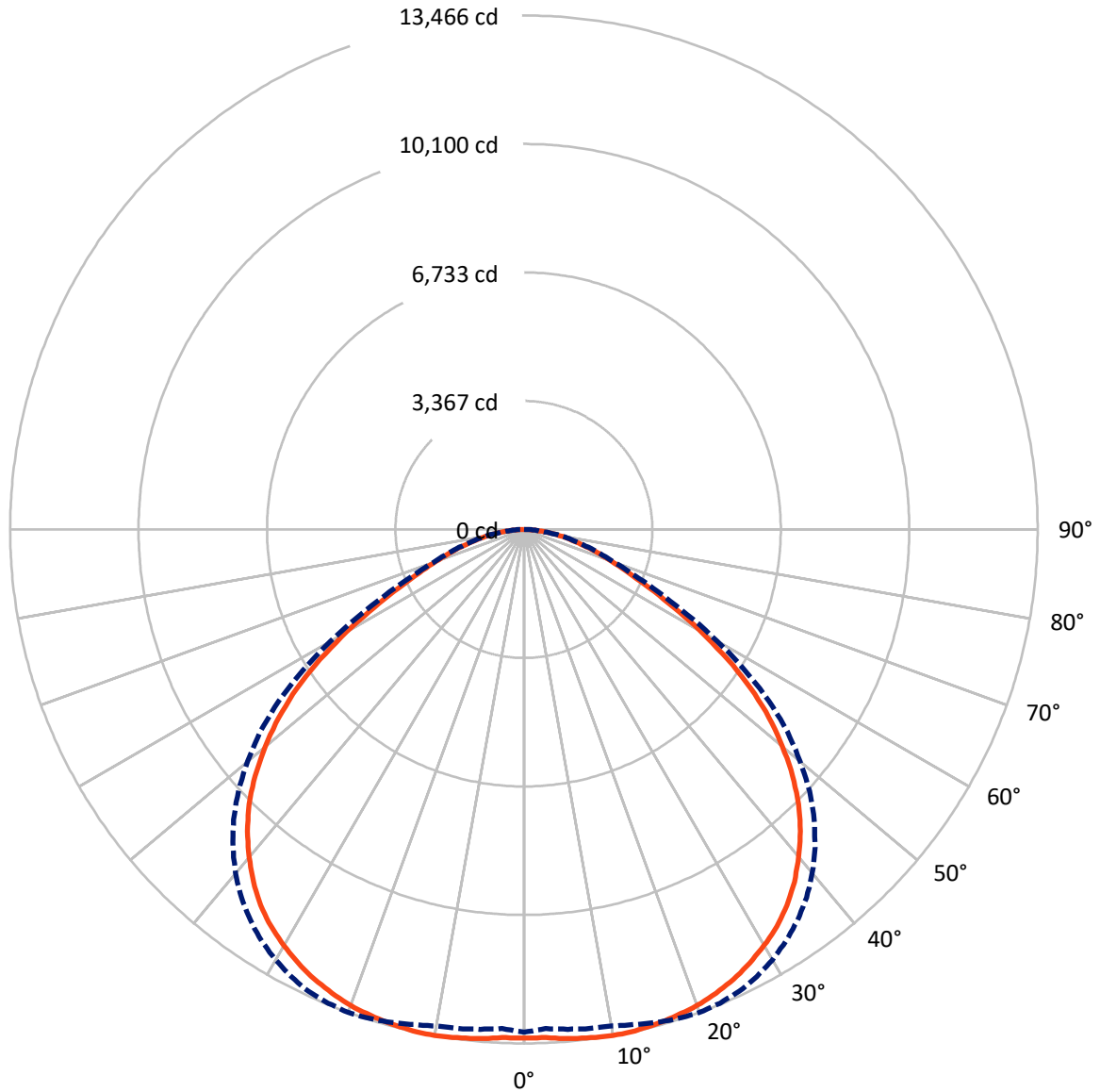
REPORT NUMBER: P628263  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-LAM

### Lumen Table



REPORT NUMBER: P628263  
CATALOG NUMBER: IFLD-L-SA8B-735-U-LAM

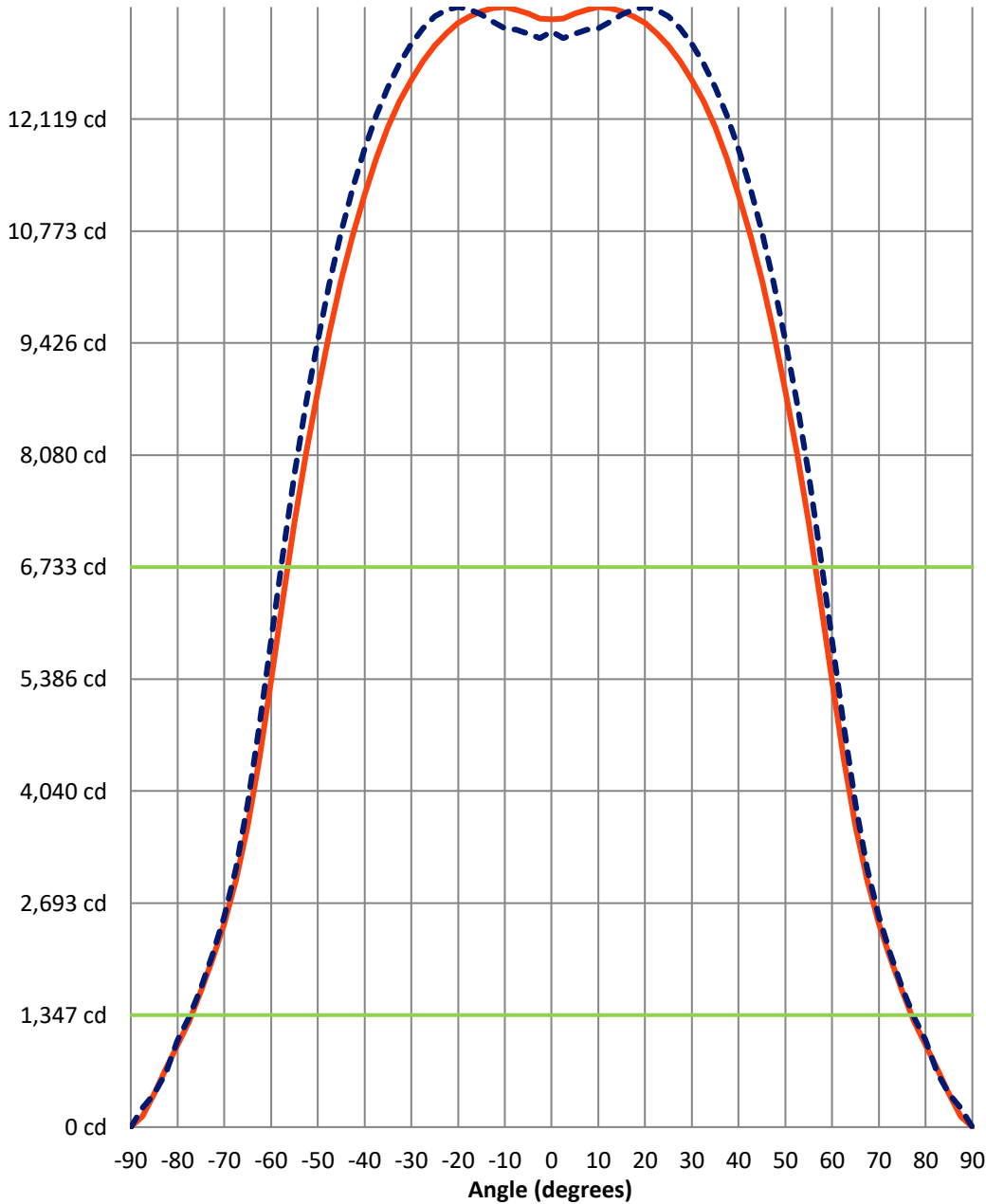
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628263  
CATALOG NUMBER: IFLD-L-SA8B-735-U-LAM

### Luminous Intensity Plot



**Beam:**  
H Angle: 115.7°  
V Angle: 112.9°  
Lumens: 25349.9  
Efficiency: 61.4%

**Field:**  
H Angle: 154.7°  
V Angle: 154°  
Lumens: 30390.3  
Efficiency: 73.6%

**Spill:**  
Lumens: 10921.8  
Efficiency: 26.4%

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



REPORT NUMBER: P628263  
 CATALOG NUMBER: IFLD-L-SA8B-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°	108.7	117.4	121.7	126.1	130.4	134.7	139.1	134.7	130.4	130.4	126.1
85°	291.2	299.9	304.3	334.7	365.1	382.5	404.2	399.9	399.9	395.5	391.2
82.5°	582.5	608.5	630.3	660.7	678.1	704.2	721.6	708.5	699.8	682.4	669.4
80°	1034.5	1043.2	1047.6	1051.9	1030.2	1025.8	1017.1	1004.1	986.7	965.0	943.2
77.5°	1317.0	1325.7	1334.4	1325.7	1321.4	1317.0	1304.0	1291.0	1273.6	1256.2	1230.1
75°	1743.0	1743.0	1743.0	1730.0	1721.3	1708.3	1686.5	1664.8	1634.4	1599.6	1560.5
72.5°	2195.1	2190.7	2186.4	2160.3	2138.6	2112.5	2082.1	2056.0	2021.2	1982.1	1929.9
70°	2668.9	2677.6	2681.9	2647.1	2621.1	2586.3	2547.2	2499.4	2447.2	2390.7	2316.8
67.5°	3320.9	3312.2	3303.5	3255.7	3220.9	3173.1	3116.6	3047.0	2968.8	2881.9	2777.5
65°	4129.4	4142.4	4116.3	4068.5	4003.3	3925.1	3838.1	3738.2	3620.8	3490.4	3342.6
62.5°	5107.4	5129.1	5098.7	5037.8	4955.2	4850.9	4729.2	4585.8	4424.9	4242.4	4059.8
60°	6220.1	6215.8	6159.3	6076.7	5968.0	5837.6	5702.9	5546.4	5363.8	5150.8	4929.2
57.5°	7241.6	7232.9	7163.4	7080.8	6972.1	6833.0	6689.6	6524.4	6333.1	6107.1	5850.7
55°	8158.8	8150.1	8080.5	7993.6	7880.6	7741.5	7611.1	7454.6	7267.7	7028.6	6754.8
52.5°	8971.6	8975.9	8915.1	8819.5	8697.7	8563.0	8436.9	8280.5	8102.2	7863.2	7598.0
50°	9719.2	9714.9	9649.7	9562.7	9449.7	9319.3	9193.3	9036.8	8849.9	8619.5	8363.0
47.5°	10414.7	10406.0	10332.1	10236.5	10119.1	10006.1	9888.7	9749.6	9554.0	9323.7	9067.2
45°	10997.1	10979.8	10905.9	10814.6	10701.6	10601.6	10497.3	10393.0	10184.3	9971.3	9727.9
42.5°	11497.0	11492.7	11418.8	11327.5	11214.5	11127.5	11031.9	10901.5	10727.7	10532.0	10293.0
40°	11975.2	11940.4	11866.5	11779.6	11675.2	11601.3	11505.7	11375.3	11205.8	11014.5	10784.2
37.5°	12331.6	12335.9	12257.7	12162.1	12070.8	12001.2	11914.3	11792.6	11644.8	11457.9	11227.5
35°	12670.6	12648.9	12583.7	12501.1	12418.5	12340.3	12249.0	12144.7	12023.0	11849.1	11631.8
32.5°	12892.3	12922.7	12844.5	12757.6	12709.7	12648.9	12553.3	12444.6	12335.9	12162.1	11966.5
30°	13135.7	13109.6	13048.8	12974.9	12940.1	12901.0	12818.4	12714.1	12588.0	12431.6	12249.0
27.5°	13305.2	13292.2	13218.3	13148.8	13131.4	13096.6	13031.4	12940.1	12814.1	12661.9	12492.4
25°	13379.1	13387.8	13318.3	13279.2	13279.2	13257.4	13205.3	13127.0	13001.0	12861.9	12696.7
22.5°	13413.9	13405.2	13357.4	13348.7	13370.4	13353.1	13331.3	13261.8	13148.8	13035.7	12896.7
20°	13435.6	13374.8	13331.3	13366.1	13392.2	13387.8	13370.4	13327.0	13274.8	13179.2	13057.5
17.5°	13387.8	13348.7	13296.5	13348.7	13405.2	13409.6	13392.2	13366.1	13353.1	13292.2	13183.5
15°	13270.5	13240.0	13248.7	13300.9	13366.1	13387.8	13400.9	13431.3	13413.9	13366.1	13270.5
12.5°	13192.2	13153.1	13192.2	13244.4	13279.2	13292.2	13396.5	13453.0	13453.0	13409.6	13348.7
10°	13170.5	13092.3	13144.4	13192.2	13209.6	13287.9	13374.8	13435.6	13466.1	13431.3	13353.1
7.5°	13127.0	13074.9	13096.6	13118.3	13218.3	13274.8	13322.6	13387.8	13431.3	13427.0	13357.4
5°	13105.3	13040.1	13048.8	13140.1	13209.6	13248.7	13266.1	13322.6	13387.8	13400.9	13348.7
2.5°	13048.8	13018.4	13083.6	13092.3	13144.4	13174.8	13192.2	13244.4	13327.0	13357.4	13335.7
0°	13018.4	12974.9	12931.4	12966.2	13053.1	13118.3	13144.4	13222.7	13318.3	13348.7	13300.9



REPORT NUMBER: P628263  
 CATALOG NUMBER: IFLD-L-SA8B-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°	121.7	117.4	113.0	108.7	113.0	113.0	113.0	108.7	113.0	108.7	108.7
85°	378.2	360.8	347.7	330.3	313.0	299.9	282.5	265.1	260.8	256.5	247.8
82.5°	652.0	630.3	608.5	582.5	556.4	526.0	495.5	460.8	452.1	443.4	430.3
80°	917.2	886.7	856.3	825.9	799.8	769.4	734.6	695.5	669.4	647.7	621.6
77.5°	1195.3	1151.9	1108.4	1056.2	1025.8	995.4	960.6	921.5	882.4	847.6	808.5
75°	1512.7	1464.8	1421.4	1369.2	1312.7	1256.2	1199.7	1147.5	1091.0	1038.9	986.7
72.5°	1864.7	1795.2	1725.6	1660.4	1590.9	1521.3	1447.5	1377.9	1308.4	1238.8	1164.9
70°	2234.2	2147.3	2060.3	1973.4	1882.1	1790.8	1703.9	1617.0	1530.0	1438.8	1356.2
67.5°	2668.9	2568.9	2455.9	2334.2	2199.4	2082.1	1969.1	1864.7	1760.4	1656.1	1551.8
65°	3212.2	3073.1	2921.0	2755.8	2599.3	2442.8	2277.7	2121.2	1999.5	1877.8	1760.4
62.5°	3881.6	3686.0	3473.0	3260.0	3068.8	2864.5	2673.2	2468.9	2277.7	2103.8	1960.4
60°	4681.4	4416.2	4155.4	3881.6	3616.5	3338.3	3094.8	2842.7	2603.7	2390.7	2182.0
57.5°	5563.8	5255.2	4942.2	4607.5	4246.7	3920.7	3590.4	3260.0	2977.5	2695.0	2460.2
55°	6459.2	6133.2	5781.1	5402.9	5007.4	4590.1	4142.4	3772.9	3386.1	3055.7	2751.5
52.5°	7311.1	6972.1	6607.0	6259.2	5785.5	5307.3	4816.1	4329.3	3877.3	3455.6	3086.2
50°	8071.8	7741.5	7389.4	6985.1	6546.1	6037.6	5489.9	4942.2	4407.6	3912.0	3451.3
47.5°	8767.3	8445.6	8093.6	7689.3	7289.4	6724.3	6172.3	5568.1	4972.6	4403.2	3864.2
45°	9419.3	9093.3	8728.2	8341.3	7880.6	7376.3	6806.9	6198.4	5559.4	4920.5	4298.9
42.5°	10010.4	9684.4	9315.0	8915.1	8458.7	7958.8	7406.8	6793.9	6150.6	5455.1	4772.7
40°	10527.7	10210.4	9854.0	9436.7	9010.7	8484.8	7941.4	7359.0	6693.9	5994.1	5242.1
37.5°	10979.8	10684.2	10332.1	9919.2	9467.1	8997.7	8436.9	7854.5	7254.6	6494.0	5724.6
35°	11379.7	11105.8	10745.0	10353.8	9910.5	9414.9	8889.0	8319.6	7671.9	6959.1	6211.4
32.5°	11727.4	11449.2	11118.9	10727.7	10297.3	9832.2	9293.2	8719.5	8106.6	7380.7	6567.9
30°	12023.0	11753.5	11440.5	11071.0	10658.1	10197.4	9671.4	9093.3	8467.4	7745.8	6941.7
27.5°	12279.4	12023.0	11718.7	11375.3	10979.8	10536.4	10006.1	9423.6	8784.7	8089.2	7285.1
25°	12501.1	12253.3	11970.8	11644.8	11253.6	10818.9	10319.1	9710.5	9071.6	8371.7	7576.3
22.5°	12701.1	12462.0	12179.4	11862.1	11505.7	11071.0	10566.8	9962.6	9315.0	8623.8	7841.4
20°	12879.3	12657.6	12379.4	12053.4	11697.0	11257.9	10758.1	10184.3	9532.3	8854.2	8080.5
17.5°	13022.7	12827.1	12548.9	12205.5	11849.1	11423.1	10936.3	10410.3	9719.2	9049.8	8280.5
15°	13122.7	12931.4	12679.3	12331.6	11983.8	11562.2	11075.4	10532.0	9888.7	9206.3	8445.6
12.5°	13192.2	12987.9	12753.2	12431.6	12083.8	11666.5	11192.7	10658.1	10032.2	9345.4	8589.1
10°	13209.6	13022.7	12788.0	12501.1	12162.1	11757.8	11292.7	10762.4	10149.5	9454.1	8706.4
7.5°	13218.3	13040.1	12827.1	12553.3	12218.6	11827.4	11366.6	10845.0	10236.5	9545.3	8793.4
5°	13214.0	13044.4	12853.2	12588.0	12253.3	11866.5	11414.4	10901.5	10297.3	9606.2	8858.6
2.5°	13200.9	13048.8	12870.6	12614.1	12292.5	11910.0	11462.2	10966.7	10362.5	9658.4	8910.7
0°	13235.7	13105.3	12879.3	12605.4	12301.2	11910.0	11457.9	10975.4	10371.2	9654.0	8906.4





REPORT NUMBER: P628263  
 CATALOG NUMBER: IFLD-L-SA8B-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°	108.7	104.3	104.3	100.0	95.6	91.3	82.6	78.2	69.5	56.5	43.5
85°	234.7	221.7	208.6	199.9	191.3	182.6	169.5	156.5	139.1	113.0	86.9
82.5°	412.9	386.9	360.8	330.3	304.3	278.2	256.5	234.7	208.6	169.5	130.4
80°	591.2	552.0	512.9	469.4	430.3	386.9	347.7	313.0	278.2	226.0	173.9
77.5°	769.4	717.2	660.7	608.5	552.0	495.5	439.0	391.2	339.0	278.2	217.3
75°	934.5	873.7	821.5	747.6	678.1	604.2	530.3	465.1	399.9	326.0	260.8
72.5°	1099.7	1021.5	947.6	878.0	799.8	708.5	625.9	543.3	460.8	373.8	295.6
70°	1264.9	1169.3	1078.0	995.4	908.5	817.2	717.2	621.6	521.6	417.3	326.0
67.5°	1434.4	1325.7	1221.4	1117.1	1017.1	912.8	808.5	699.8	582.5	460.8	360.8
65°	1621.3	1486.6	1360.5	1243.2	1125.8	1012.8	895.4	778.1	647.7	508.6	391.2
62.5°	1808.2	1660.4	1512.7	1364.9	1234.5	1108.4	982.4	852.0	708.5	560.7	421.6
60°	2008.2	1838.7	1669.1	1504.0	1343.1	1204.0	1064.9	925.8	773.7	608.5	452.1
57.5°	2229.9	2025.6	1834.3	1647.4	1464.8	1299.7	1147.5	999.7	830.2	656.4	486.8
55°	2482.0	2229.9	2003.8	1795.2	1595.2	1395.3	1230.1	1078.0	895.4	704.2	526.0
52.5°	2747.1	2455.9	2182.0	1947.3	1734.3	1508.3	1308.4	1138.8	960.6	752.0	560.7
50°	3055.7	2686.3	2382.0	2095.1	1856.0	1621.3	1390.9	1208.4	1025.8	808.5	595.5
47.5°	3373.0	2964.4	2581.9	2269.0	1986.4	1730.0	1486.6	1269.2	1086.7	860.6	630.3
45°	3742.5	3229.6	2808.0	2438.5	2112.5	1843.0	1582.2	1334.4	1138.8	912.8	665.0
42.5°	4098.9	3542.6	3042.7	2625.4	2255.9	1951.7	1669.1	1404.0	1191.0	965.0	695.5
40°	4520.6	3855.5	3268.7	2803.6	2399.4	2056.0	1756.1	1477.9	1238.8	1012.8	725.9
37.5°	4924.8	4172.8	3542.6	2999.2	2538.5	2160.3	1843.0	1547.4	1282.3	1060.6	765.0
35°	5324.7	4524.9	3803.4	3181.8	2681.9	2277.7	1929.9	1612.6	1325.7	1099.7	799.8
32.5°	5707.2	4855.3	4068.5	3386.1	2838.4	2386.3	2008.2	1673.5	1369.2	1134.5	834.6
30°	6063.6	5168.2	4329.3	3594.7	2981.8	2486.3	2082.1	1734.3	1421.4	1164.9	869.3
27.5°	6389.6	5472.5	4590.1	3790.3	3116.6	2577.6	2160.3	1790.8	1464.8	1195.3	899.8
25°	6685.2	5746.3	4829.2	3968.5	3238.3	2677.6	2234.2	1847.3	1504.0	1221.4	925.8
22.5°	6963.4	5998.4	5046.5	4146.8	3386.1	2777.5	2303.8	1899.5	1543.1	1247.5	951.9
20°	7206.8	6228.8	5255.2	4325.0	3516.5	2868.8	2364.6	1947.3	1577.9	1264.9	978.0
17.5°	7402.4	6433.1	5442.1	4481.4	3629.5	2947.1	2416.8	1990.8	1608.3	1286.6	995.4
15°	7576.3	6607.0	5598.5	4616.2	3729.5	3012.3	2464.6	2025.6	1634.4	1299.7	1017.1
12.5°	7724.1	6754.8	5733.3	4733.6	3816.4	3068.8	2503.7	2051.6	1656.1	1312.7	1030.2
10°	7845.8	6872.1	5846.3	4824.8	3885.9	3112.2	2534.1	2077.7	1673.5	1325.7	1043.2
7.5°	7937.1	6959.1	5928.9	4903.1	3942.5	3142.7	2560.2	2095.1	1690.9	1334.4	1064.9
5°	8006.6	7033.0	5994.1	4955.2	3985.9	3186.1	2590.6	2116.8	1708.3	1343.1	1064.9
2.5°	8058.8	7093.8	6046.3	4998.7	4020.7	3177.4	2590.6	2112.5	1708.3	1343.1	1060.6
0°	8050.1	7098.2	6041.9	4998.7	4020.7	3168.7	2590.6	2108.1	1708.3	1343.1	1060.6



REPORT NUMBER: P628263  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	30.4	21.7	8.7	0.0
85°	65.2	43.5	21.7	0.0
82.5°	95.6	60.9	30.4	0.0
80°	126.1	82.6	39.1	0.0
77.5°	160.8	104.3	52.2	0.0
75°	191.3	121.7	60.9	0.0
72.5°	221.7	143.4	69.5	0.0
70°	247.8	160.8	78.2	0.0
67.5°	273.8	182.6	91.3	0.0
65°	295.6	199.9	100.0	0.0
62.5°	313.0	221.7	108.7	0.0
60°	334.7	239.1	117.4	0.0
57.5°	352.1	252.1	126.1	0.0
55°	369.5	260.8	134.7	0.0
52.5°	386.9	273.8	143.4	0.0
50°	404.2	286.9	152.1	0.0
47.5°	421.6	295.6	156.5	0.0
45°	447.7	308.6	165.2	0.0
42.5°	469.4	317.3	173.9	0.0
40°	491.2	326.0	178.2	0.0
37.5°	512.9	334.7	186.9	0.0
35°	534.6	343.4	191.3	0.0
32.5°	552.0	352.1	195.6	0.0
30°	569.4	360.8	199.9	0.0
27.5°	586.8	365.1	204.3	0.0
25°	599.8	373.8	208.6	0.0
22.5°	612.9	378.2	213.0	0.0
20°	621.6	382.5	217.3	0.0
17.5°	634.6	386.9	221.7	0.0
15°	639.0	391.2	230.4	0.0
12.5°	647.7	395.5	230.4	0.0
10°	652.0	399.9	230.4	0.0
7.5°	660.7	399.9	230.4	0.0
5°	656.4	399.9	230.4	0.0
2.5°	656.4	399.9	230.4	0.0
0°	652.0	399.9	230.4	0.0

(END OF REPORT)