

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: P628240

Luminaire Tested: **IFLD-S-SA2D-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628240  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

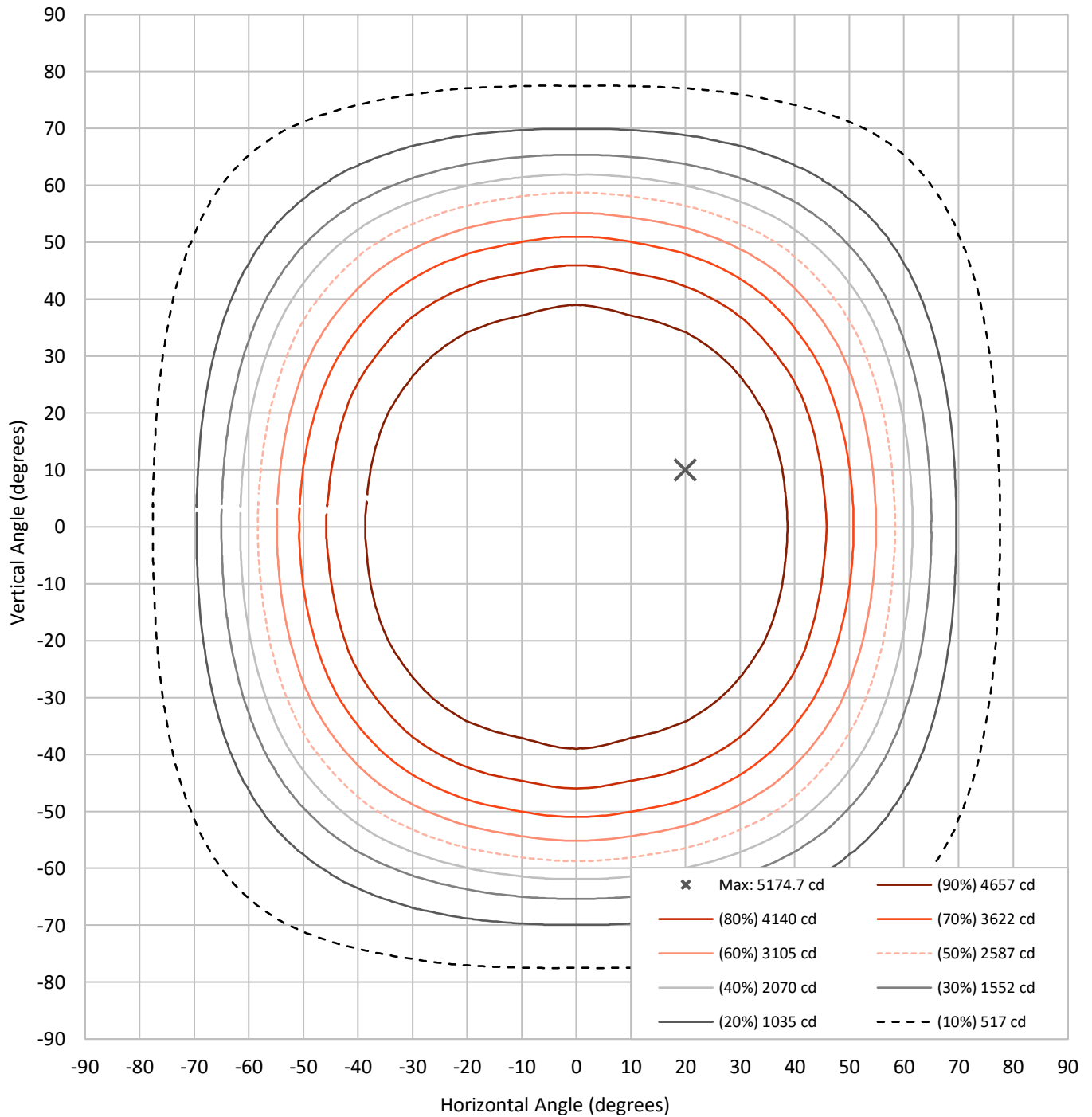
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	15875.2 lumens	Max Intensity:	5174.7 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	128.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	9741.4 lumens	Field Lumens:	11678.2 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 123.9  
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



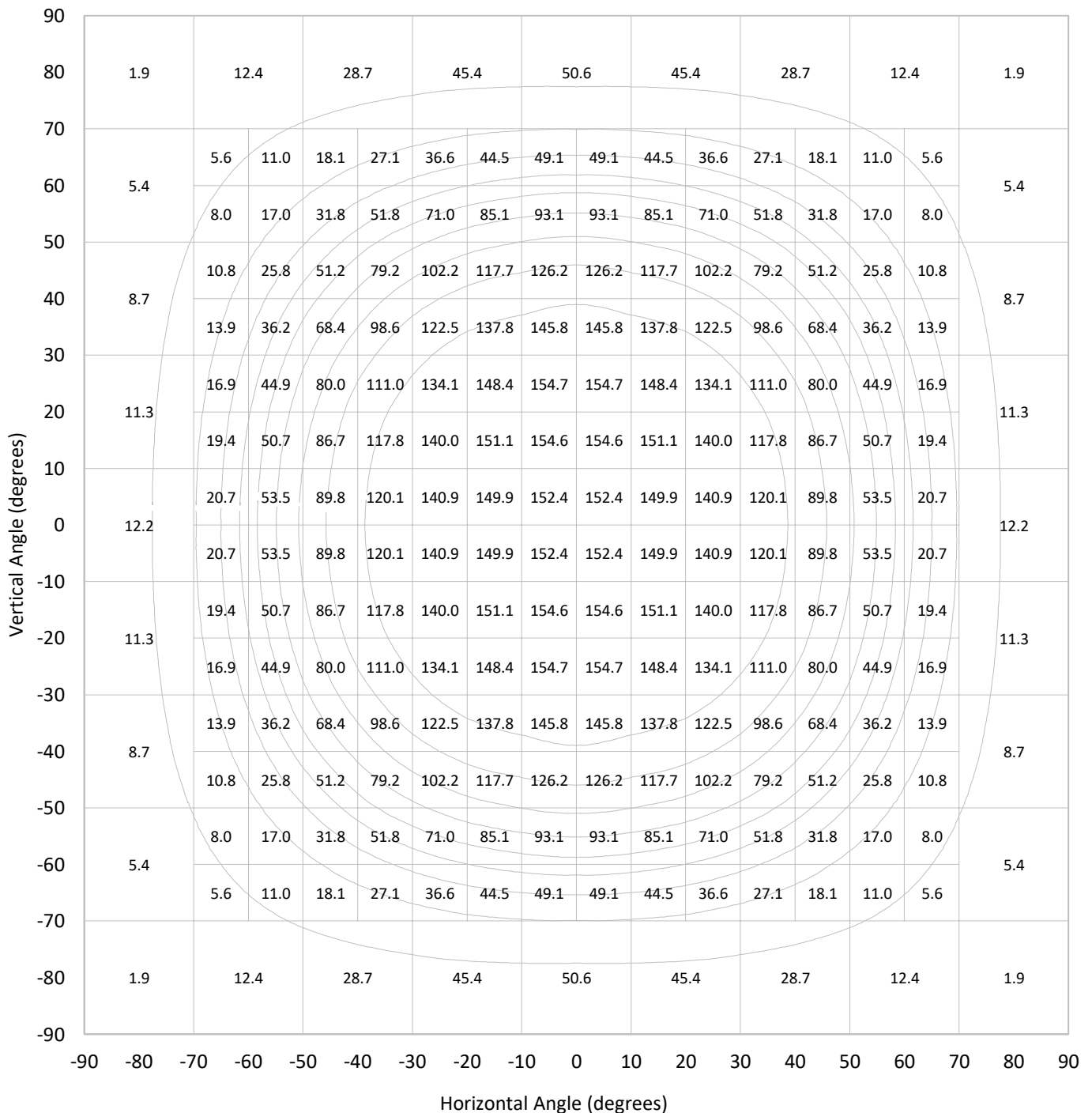
REPORT NUMBER: P628240  
CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM

### Iso-Candela Plot



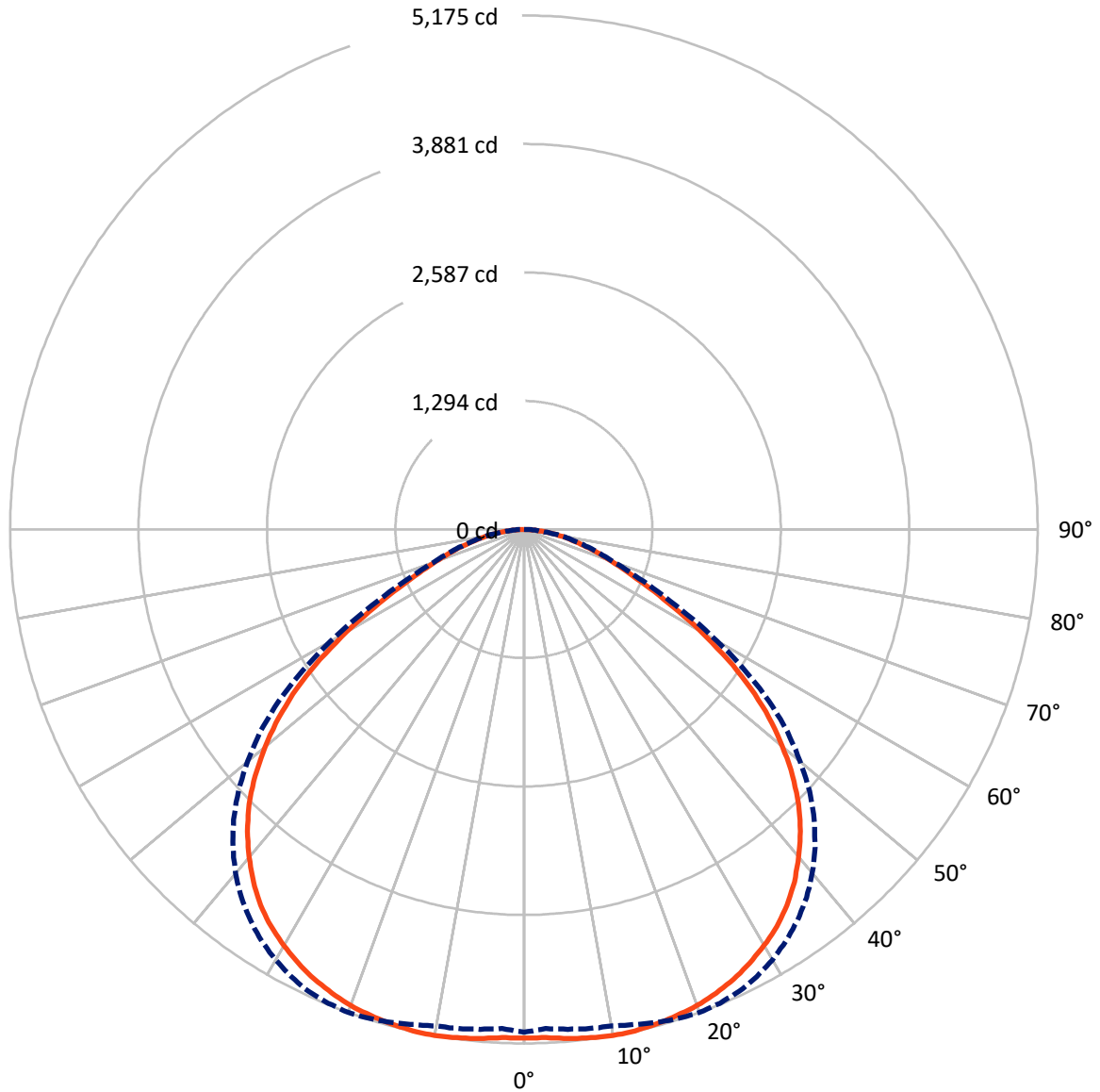
REPORT NUMBER: P628240  
 CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM

### Lumen Table



REPORT NUMBER: P628240  
CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM

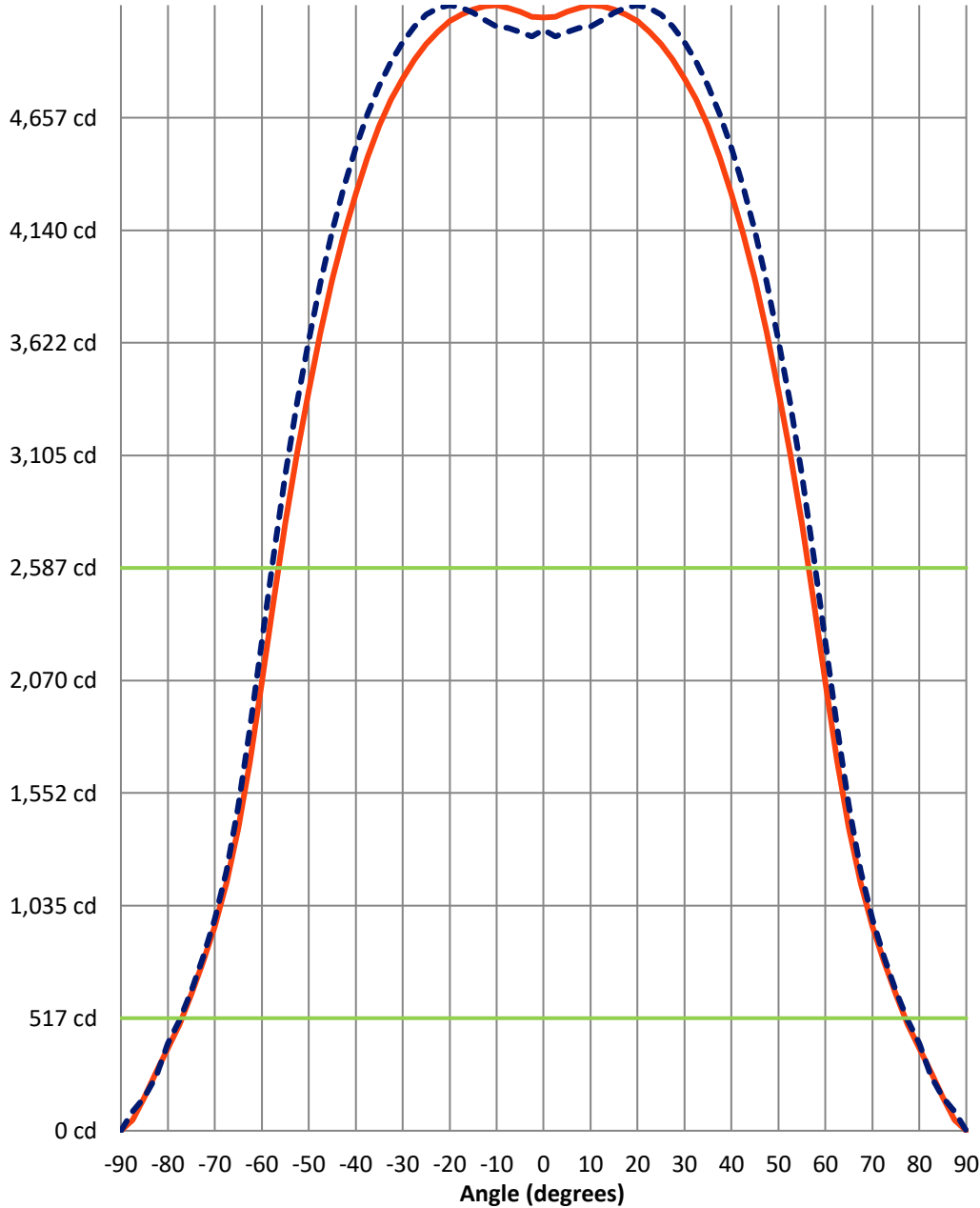
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628240  
 CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 9741.4  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 11678.2  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 4197  
 Efficiency: 26.4%

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



REPORT NUMBER: P628240  
 CATALOG NUMBER: IFLD-S-SA2D-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°	41.8	45.1	46.8	48.4	50.1	51.8	53.5	51.8	50.1	50.1	48.4
85°	111.9	115.3	116.9	128.6	140.3	147.0	155.3	153.7	153.7	152.0	150.3
82.5°	223.8	233.8	242.2	253.9	260.6	270.6	277.3	272.3	268.9	262.2	257.2
80°	397.5	400.9	402.5	404.2	395.9	394.2	390.9	385.8	379.2	370.8	362.5
77.5°	506.1	509.5	512.8	509.5	507.8	506.1	501.1	496.1	489.4	482.7	472.7
75°	669.8	669.8	669.8	664.8	661.5	656.4	648.1	639.7	628.0	614.7	599.6
72.5°	843.5	841.8	840.2	830.2	821.8	811.8	800.1	790.1	776.7	761.7	741.6
70°	1025.6	1028.9	1030.6	1017.2	1007.2	993.8	978.8	960.4	940.4	918.7	890.3
67.5°	1276.1	1272.8	1269.5	1251.1	1237.7	1219.3	1197.6	1170.9	1140.8	1107.4	1067.3
65°	1586.8	1591.8	1581.8	1563.4	1538.4	1508.3	1474.9	1436.5	1391.4	1341.3	1284.5
62.5°	1962.6	1971.0	1959.3	1935.9	1904.2	1864.1	1817.3	1762.2	1700.4	1630.2	1560.1
60°	2390.2	2388.6	2366.9	2335.1	2293.4	2243.3	2191.5	2131.3	2061.2	1979.3	1894.2
57.5°	2782.8	2779.4	2752.7	2721.0	2679.2	2625.8	2570.6	2507.2	2433.7	2346.8	2248.3
55°	3135.2	3131.9	3105.1	3071.7	3028.3	2974.9	2924.8	2864.6	2792.8	2700.9	2595.7
52.5°	3447.6	3449.2	3425.8	3389.1	3342.3	3290.6	3242.1	3182.0	3113.5	3021.6	2919.7
50°	3734.9	3733.2	3708.1	3674.7	3631.3	3581.2	3532.8	3472.6	3400.8	3312.3	3213.7
47.5°	4002.1	3998.8	3970.4	3933.6	3888.5	3845.1	3800.0	3746.6	3671.4	3582.9	3484.3
45°	4225.9	4219.3	4190.9	4155.8	4112.4	4073.9	4033.9	3993.8	3913.6	3831.7	3738.2
42.5°	4418.0	4416.4	4388.0	4352.9	4309.5	4276.0	4239.3	4189.2	4122.4	4047.2	3955.3
40°	4601.8	4588.4	4560.0	4526.6	4486.5	4458.1	4421.4	4371.3	4306.1	4232.6	4144.1
37.5°	4738.7	4740.4	4710.3	4673.6	4638.5	4611.8	4578.4	4531.6	4474.8	4403.0	4314.5
35°	4869.0	4860.7	4835.6	4803.9	4772.1	4742.1	4707.0	4666.9	4620.1	4553.3	4469.8
32.5°	4954.2	4965.9	4935.8	4902.4	4884.0	4860.7	4823.9	4782.2	4740.4	4673.6	4598.4
30°	5047.7	5037.7	5014.3	4985.9	4972.6	4957.5	4925.8	4885.7	4837.3	4777.1	4707.0
27.5°	5112.9	5107.9	5079.5	5052.8	5046.1	5032.7	5007.7	4972.6	4924.1	4865.7	4800.5
25°	5141.3	5144.6	5117.9	5102.9	5102.9	5094.5	5074.5	5044.4	4996.0	4942.5	4879.0
22.5°	5154.6	5151.3	5132.9	5129.6	5137.9	5131.3	5122.9	5096.2	5052.8	5009.3	4955.9
20°	5163.0	5139.6	5122.9	5136.3	5146.3	5144.6	5137.9	5121.2	5101.2	5064.4	5017.7
17.5°	5144.6	5129.6	5109.5	5129.6	5151.3	5153.0	5146.3	5136.3	5131.3	5107.9	5066.1
15°	5099.5	5087.8	5091.2	5111.2	5136.3	5144.6	5149.6	5161.3	5154.6	5136.3	5099.5
12.5°	5069.5	5054.4	5069.5	5089.5	5102.9	5107.9	5148.0	5169.7	5169.7	5153.0	5129.6
10°	5061.1	5031.0	5051.1	5069.5	5076.1	5106.2	5139.6	5163.0	5174.7	5161.3	5131.3
7.5°	5044.4	5024.4	5032.7	5041.1	5079.5	5101.2	5119.6	5144.6	5161.3	5159.7	5132.9
5°	5036.0	5011.0	5014.3	5049.4	5076.1	5091.2	5097.9	5119.6	5144.6	5149.6	5129.6
2.5°	5014.3	5002.6	5027.7	5031.0	5051.1	5062.8	5069.5	5089.5	5121.2	5132.9	5124.6
0°	5002.6	4985.9	4969.2	4982.6	5016.0	5041.1	5051.1	5081.1	5117.9	5129.6	5111.2



REPORT NUMBER: P628240  
 CATALOG NUMBER: IFLD-S-SA2D-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°	46.8	45.1	43.4	41.8	43.4	43.4	43.4	41.8	43.4	41.8	41.8
85°	145.3	138.6	133.6	126.9	120.3	115.3	108.6	101.9	100.2	98.5	95.2
82.5°	250.5	242.2	233.8	223.8	213.8	202.1	190.4	177.1	173.7	170.4	165.4
80°	352.4	340.7	329.1	317.4	307.3	295.6	282.3	267.3	257.2	248.9	238.9
77.5°	459.3	442.6	425.9	405.9	394.2	382.5	369.1	354.1	339.1	325.7	310.7
75°	581.3	562.9	546.2	526.2	504.4	482.7	461.0	441.0	419.3	399.2	379.2
72.5°	716.6	689.8	663.1	638.1	611.3	584.6	556.2	529.5	502.8	476.0	447.6
70°	858.6	825.1	791.7	758.3	723.3	688.2	654.8	621.4	588.0	552.9	521.1
67.5°	1025.6	987.2	943.7	897.0	845.2	800.1	756.7	716.6	676.5	636.4	596.3
65°	1234.4	1180.9	1122.5	1059.0	998.9	938.7	875.3	815.1	768.4	721.6	676.5
62.5°	1491.6	1416.4	1334.6	1252.7	1179.3	1100.7	1027.3	948.7	875.3	808.4	753.3
60°	1798.9	1697.1	1596.8	1491.6	1389.7	1282.8	1189.3	1092.4	1000.5	918.7	838.5
57.5°	2138.0	2019.4	1899.2	1770.6	1631.9	1506.6	1379.7	1252.7	1144.2	1035.6	945.4
55°	2482.1	2356.8	2221.5	2076.2	1924.2	1763.9	1591.8	1449.8	1301.2	1174.2	1057.3
52.5°	2809.5	2679.2	2538.9	2405.3	2223.2	2039.5	1850.7	1663.7	1489.9	1327.9	1185.9
50°	3101.8	2974.9	2839.6	2684.2	2515.5	2320.1	2109.6	1899.2	1693.7	1503.3	1326.2
47.5°	3369.1	3245.5	3110.2	2954.8	2801.1	2584.0	2371.9	2139.7	1910.9	1692.0	1484.9
45°	3619.6	3494.3	3354.0	3205.4	3028.3	2834.6	2615.7	2381.9	2136.4	1890.8	1652.0
42.5°	3846.8	3721.5	3579.5	3425.8	3250.5	3058.4	2846.2	2610.7	2363.5	2096.3	1834.0
40°	4045.5	3923.6	3786.6	3626.3	3462.6	3260.5	3051.7	2827.9	2572.3	2303.4	2014.4
37.5°	4219.3	4105.7	3970.4	3811.7	3638.0	3457.6	3242.1	3018.3	2787.8	2495.5	2199.8
35°	4372.9	4267.7	4129.1	3978.7	3808.4	3617.9	3415.8	3197.0	2948.1	2674.2	2386.9
32.5°	4506.6	4399.7	4272.7	4122.4	3957.0	3778.3	3571.2	3350.7	3115.2	2836.2	2523.9
30°	4620.1	4516.6	4396.3	4254.3	4095.7	3918.6	3716.5	3494.3	3253.8	2976.5	2667.5
27.5°	4718.7	4620.1	4503.2	4371.3	4219.3	4048.9	3845.1	3621.3	3375.7	3108.5	2799.5
25°	4803.9	4708.7	4600.1	4474.8	4324.5	4157.5	3965.4	3731.5	3486.0	3217.1	2911.4
22.5°	4880.7	4788.8	4680.3	4558.3	4421.4	4254.3	4060.6	3828.4	3579.5	3313.9	3013.3
20°	4949.2	4864.0	4757.1	4631.8	4494.9	4326.2	4134.1	3913.6	3663.0	3402.5	3105.1
17.5°	5004.3	4929.1	4822.2	4690.3	4553.3	4389.6	4202.6	4000.4	3734.9	3477.6	3182.0
15°	5042.7	4969.2	4872.4	4738.7	4605.1	4443.1	4256.0	4047.2	3800.0	3537.8	3245.5
12.5°	5069.5	4991.0	4900.8	4777.1	4643.5	4483.2	4301.1	4095.7	3855.1	3591.2	3300.6
10°	5076.1	5004.3	4914.1	4803.9	4673.6	4518.2	4339.5	4135.7	3900.2	3633.0	3345.7
7.5°	5079.5	5011.0	4929.1	4823.9	4695.3	4545.0	4367.9	4167.5	3933.6	3668.0	3379.1
5°	5077.8	5012.7	4939.2	4837.3	4708.7	4560.0	4386.3	4189.2	3957.0	3691.4	3404.1
2.5°	5072.8	5014.3	4945.9	4847.3	4723.7	4576.7	4404.7	4214.2	3982.1	3711.5	3424.2
0°	5086.2	5036.0	4949.2	4844.0	4727.0	4576.7	4403.0	4217.6	3985.4	3709.8	3422.5





REPORT NUMBER: P628240  
 CATALOG NUMBER: IFLD-S-SA2D-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°	41.8	40.1	40.1	38.4	36.7	35.1	31.7	30.1	26.7	21.7	16.7
85°	90.2	85.2	80.2	76.8	73.5	70.2	65.1	60.1	53.5	43.4	33.4
82.5°	158.7	148.7	138.6	126.9	116.9	106.9	98.5	90.2	80.2	65.1	50.1
80°	227.2	212.1	197.1	180.4	165.4	148.7	133.6	120.3	106.9	86.9	66.8
77.5°	295.6	275.6	253.9	233.8	212.1	190.4	168.7	150.3	130.3	106.9	83.5
75°	359.1	335.7	315.7	287.3	260.6	232.2	203.8	178.7	153.7	125.3	100.2
72.5°	422.6	392.5	364.1	337.4	307.3	272.3	240.5	208.8	177.1	143.6	113.6
70°	486.1	449.3	414.2	382.5	349.1	314.0	275.6	238.9	200.4	160.4	125.3
67.5°	551.2	509.5	469.4	429.3	390.9	350.8	310.7	268.9	223.8	177.1	138.6
65°	623.0	571.3	522.8	477.7	432.6	389.2	344.1	299.0	248.9	195.4	150.3
62.5°	694.9	638.1	581.3	524.5	474.4	425.9	377.5	327.4	272.3	215.5	162.0
60°	771.7	706.6	641.4	577.9	516.1	462.7	409.2	355.8	297.3	233.8	173.7
57.5°	856.9	778.4	704.9	633.1	562.9	499.4	441.0	384.2	319.0	252.2	187.1
55°	953.8	856.9	770.0	689.8	613.0	536.2	472.7	414.2	344.1	270.6	202.1
52.5°	1055.6	943.7	838.5	748.3	666.5	579.6	502.8	437.6	369.1	289.0	215.5
50°	1174.2	1032.3	915.3	805.1	713.2	623.0	534.5	464.4	394.2	310.7	228.8
47.5°	1296.2	1139.2	992.2	871.9	763.3	664.8	571.3	487.7	417.6	330.7	242.2
45°	1438.2	1241.1	1079.0	937.1	811.8	708.2	608.0	512.8	437.6	350.8	255.6
42.5°	1575.1	1361.3	1169.2	1008.9	866.9	750.0	641.4	539.5	457.7	370.8	267.3
40°	1737.1	1481.6	1256.1	1077.4	922.0	790.1	674.8	567.9	476.0	389.2	278.9
37.5°	1892.5	1603.5	1361.3	1152.5	975.5	830.2	708.2	594.6	492.7	407.6	294.0
35°	2046.2	1738.8	1461.5	1222.7	1030.6	875.3	741.6	619.7	509.5	422.6	307.3
32.5°	2193.1	1865.8	1563.4	1301.2	1090.7	917.0	771.7	643.1	526.2	436.0	320.7
30°	2330.1	1986.0	1663.7	1381.4	1145.8	955.4	800.1	666.5	546.2	447.6	334.1
27.5°	2455.4	2102.9	1763.9	1456.5	1197.6	990.5	830.2	688.2	562.9	459.3	345.8
25°	2569.0	2208.2	1855.7	1525.0	1244.4	1028.9	858.6	709.9	577.9	469.4	355.8
22.5°	2675.9	2305.1	1939.3	1593.5	1301.2	1067.3	885.3	729.9	593.0	479.4	365.8
20°	2769.4	2393.6	2019.4	1662.0	1351.3	1102.4	908.7	748.3	606.3	486.1	375.8
17.5°	2844.6	2472.1	2091.3	1722.1	1394.7	1132.5	928.7	765.0	618.0	494.4	382.5
15°	2911.4	2538.9	2151.4	1773.9	1433.1	1157.5	947.1	778.4	628.0	499.4	390.9
12.5°	2968.2	2595.7	2203.2	1819.0	1466.6	1179.3	962.1	788.4	636.4	504.4	395.9
10°	3014.9	2640.8	2246.6	1854.1	1493.3	1196.0	973.8	798.4	643.1	509.5	400.9
7.5°	3050.0	2674.2	2278.3	1884.1	1515.0	1207.6	983.8	805.1	649.8	512.8	409.2
5°	3076.8	2702.6	2303.4	1904.2	1531.7	1224.4	995.5	813.5	656.4	516.1	409.2
2.5°	3096.8	2726.0	2323.4	1920.9	1545.1	1221.0	995.5	811.8	656.4	516.1	407.6
0°	3093.5	2727.7	2321.8	1920.9	1545.1	1217.7	995.5	810.1	656.4	516.1	407.6



REPORT NUMBER: P628240  
 CATALOG NUMBER: IFLD-S-SA2D-735-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.7	8.4	3.3	0.0
85°	25.1	16.7	8.4	0.0
82.5°	36.7	23.4	11.7	0.0
80°	48.4	31.7	15.0	0.0
77.5°	61.8	40.1	20.0	0.0
75°	73.5	46.8	23.4	0.0
72.5°	85.2	55.1	26.7	0.0
70°	95.2	61.8	30.1	0.0
67.5°	105.2	70.2	35.1	0.0
65°	113.6	76.8	38.4	0.0
62.5°	120.3	85.2	41.8	0.0
60°	128.6	91.9	45.1	0.0
57.5°	135.3	96.9	48.4	0.0
55°	142.0	100.2	51.8	0.0
52.5°	148.7	105.2	55.1	0.0
50°	155.3	110.2	58.5	0.0
47.5°	162.0	113.6	60.1	0.0
45°	172.0	118.6	63.5	0.0
42.5°	180.4	121.9	66.8	0.0
40°	188.7	125.3	68.5	0.0
37.5°	197.1	128.6	71.8	0.0
35°	205.5	132.0	73.5	0.0
32.5°	212.1	135.3	75.2	0.0
30°	218.8	138.6	76.8	0.0
27.5°	225.5	140.3	78.5	0.0
25°	230.5	143.6	80.2	0.0
22.5°	235.5	145.3	81.8	0.0
20°	238.9	147.0	83.5	0.0
17.5°	243.9	148.7	85.2	0.0
15°	245.5	150.3	88.5	0.0
12.5°	248.9	152.0	88.5	0.0
10°	250.5	153.7	88.5	0.0
7.5°	253.9	153.7	88.5	0.0
5°	252.2	153.7	88.5	0.0
2.5°	252.2	153.7	88.5	0.0
0°	250.5	153.7	88.5	0.0

(END OF REPORT)