

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: P628277

Luminaire Tested: **IFLD-S-SA6B-740-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628277
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	34353.4 lumens	Max Intensity:	11197.8 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	140.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

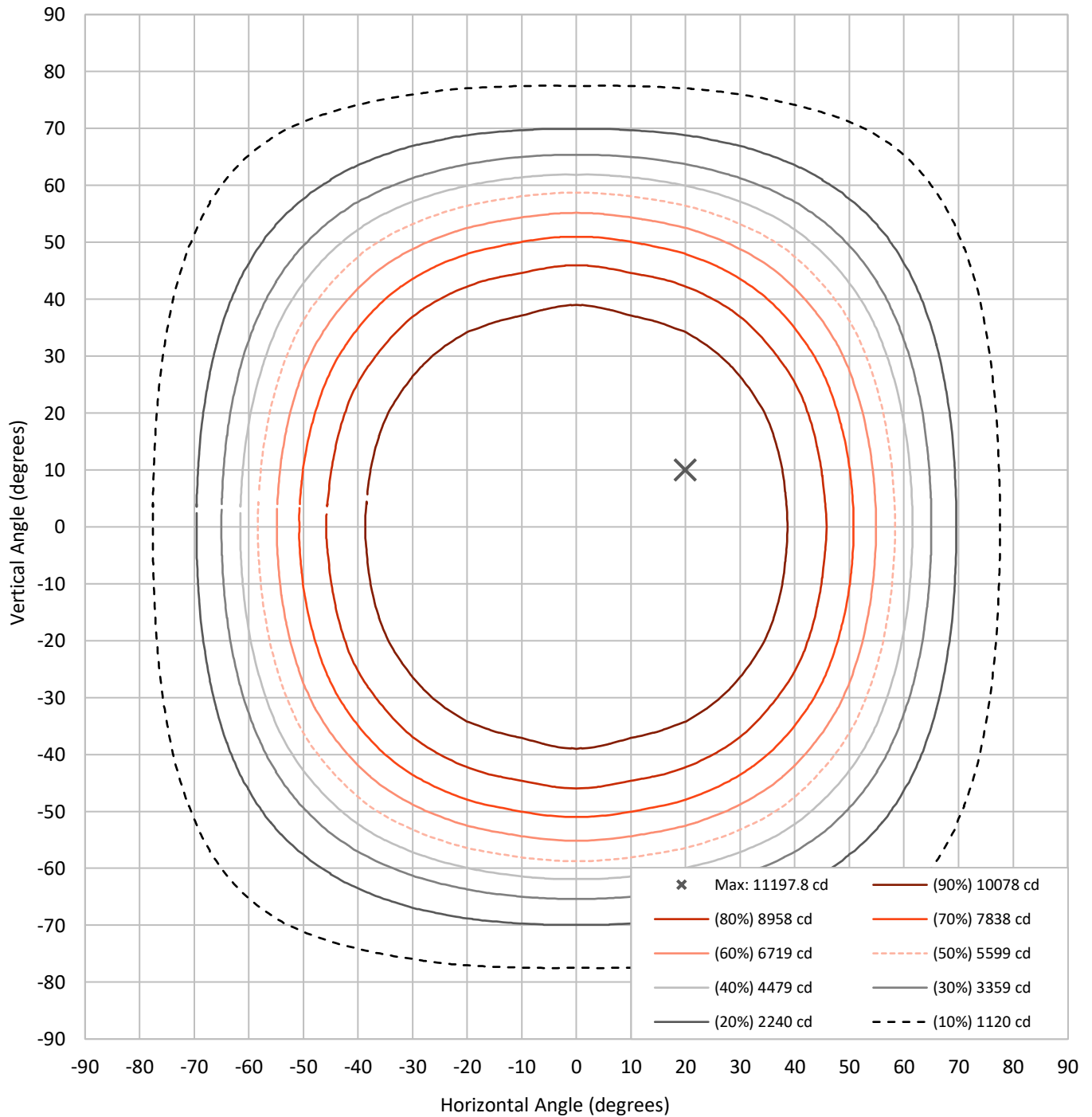
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	21080 lumens	Field Lumens:	25271.3 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

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



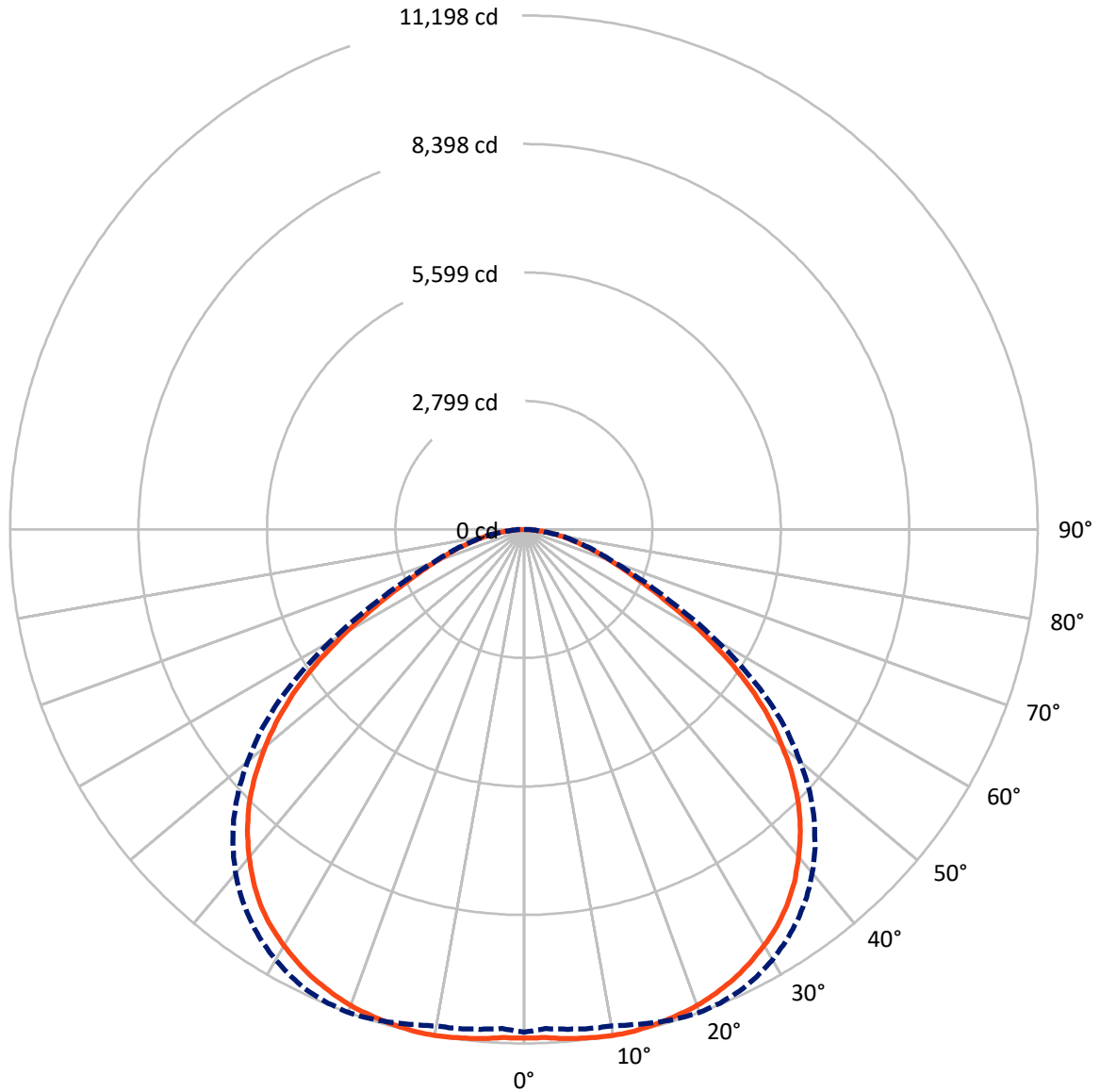
REPORT NUMBER: P628277
CATALOG NUMBER: IFLD-S-SA6B-740-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628277
CATALOG NUMBER: IFLD-S-SA6B-740-U-LAM

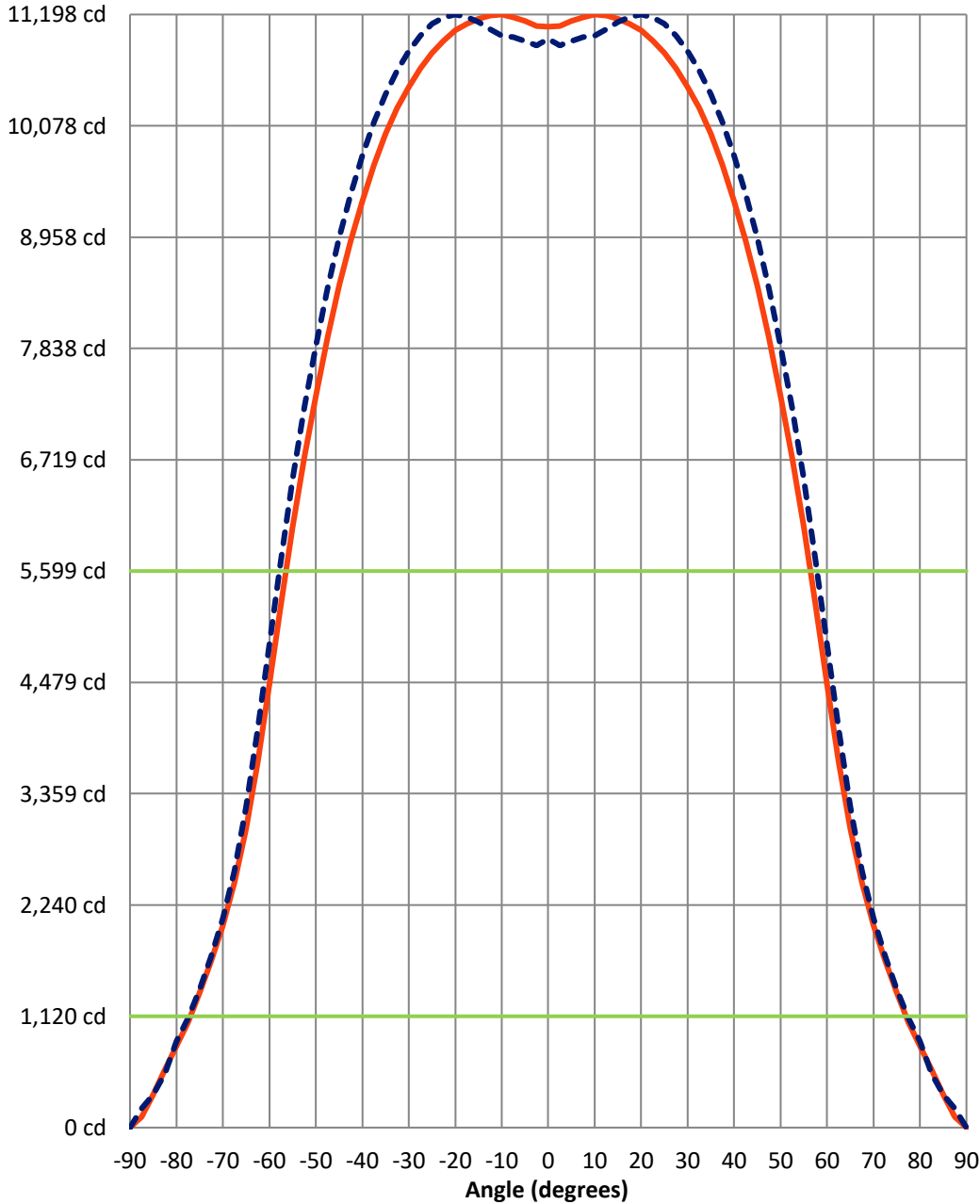
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628277
 CATALOG NUMBER: IFLD-S-SA6B-740-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 21080
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 25271.3
 Efficiency: 73.6%

Spill:
 Lumens: 9082.1
 Efficiency: 26.4%

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



REPORT NUMBER: P628277
 CATALOG NUMBER: IFLD-S-SA6B-740-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°	90.4	97.6	101.2	104.8	108.4	112.1	115.7	112.1	108.4	108.4	104.8
85°	242.2	249.4	253.0	278.3	303.6	318.1	336.2	332.5	332.5	328.9	325.3
82.5°	484.3	506.0	524.1	549.4	563.9	585.6	600.0	589.2	581.9	567.5	556.6
80°	860.3	867.5	871.1	874.7	856.6	853.0	845.8	835.0	820.5	802.4	784.4
77.5°	1095.2	1102.4	1109.7	1102.4	1098.8	1095.2	1084.4	1073.5	1059.1	1044.6	1022.9
75°	1449.4	1449.4	1449.4	1438.6	1431.4	1420.5	1402.4	1384.4	1359.1	1330.1	1297.6
72.5°	1825.3	1821.7	1818.1	1796.4	1778.4	1756.7	1731.4	1709.7	1680.8	1648.2	1604.9
70°	2219.3	2226.6	2230.2	2201.3	2179.6	2150.6	2118.1	2078.4	2035.0	1988.0	1926.5
67.5°	2761.5	2754.3	2747.0	2707.3	2678.4	2638.6	2591.6	2533.8	2468.7	2396.4	2309.7
65°	3433.8	3444.6	3423.0	3383.2	3329.0	3263.9	3191.6	3108.5	3010.9	2902.5	2779.6
62.5°	4247.1	4265.1	4239.8	4189.2	4120.6	4033.8	3932.6	3813.3	3679.6	3527.8	3376.0
60°	5172.4	5168.8	5121.8	5053.1	4962.8	4854.3	4742.3	4612.1	4460.3	4283.2	4098.9
57.5°	6021.8	6014.6	5956.8	5888.1	5797.7	5682.0	5562.8	5425.4	5266.4	5078.4	4865.2
55°	6784.5	6777.2	6719.4	6647.1	6553.1	6437.5	6329.0	6198.9	6043.5	5844.7	5617.0
52.5°	7460.4	7464.0	7413.4	7333.9	7232.7	7120.6	7015.8	6885.7	6737.5	6538.7	6318.2
50°	8082.1	8078.5	8024.3	7952.0	7858.0	7749.6	7644.7	7514.6	7359.2	7167.6	6954.4
47.5°	8660.4	8653.2	8591.7	8512.2	8414.6	8320.7	8223.1	8107.4	7944.7	7753.2	7539.9
45°	9144.8	9130.3	9068.9	8993.0	8899.0	8815.8	8729.1	8642.3	8468.9	8291.7	8089.3
42.5°	9560.4	9556.8	9495.4	9419.5	9325.5	9253.2	9173.7	9065.2	8920.7	8758.0	8559.2
40°	9958.0	9929.1	9867.7	9795.4	9708.6	9647.2	9567.7	9459.2	9318.3	9159.2	8967.7
37.5°	10254.4	10258.0	10193.0	10113.5	10037.6	9979.7	9907.4	9806.2	9683.3	9527.9	9336.3
35°	10536.4	10518.3	10464.1	10395.4	10326.7	10261.7	10185.8	10099.0	9997.8	9853.2	9672.5
32.5°	10720.7	10746.0	10680.9	10608.7	10568.9	10518.3	10438.8	10348.4	10258.0	10113.5	9950.8
30°	10923.1	10901.4	10850.8	10789.4	10760.5	10727.9	10659.3	10572.5	10467.7	10337.6	10185.8
27.5°	11064.1	11053.2	10991.8	10934.0	10919.5	10890.6	10836.4	10760.5	10655.6	10529.1	10388.2
25°	11125.5	11132.8	11074.9	11042.4	11042.4	11024.3	10981.0	10915.9	10811.1	10695.4	10558.1
22.5°	11154.4	11147.2	11107.5	11100.2	11118.3	11103.8	11085.8	11027.9	10934.0	10840.0	10724.3
20°	11172.5	11121.9	11085.8	11114.7	11136.4	11132.8	11118.3	11082.2	11038.8	10959.3	10858.1
17.5°	11132.8	11100.2	11056.9	11100.2	11147.2	11150.8	11136.4	11114.7	11103.8	11053.2	10962.9
15°	11035.2	11009.9	11017.1	11060.5	11114.7	11132.8	11143.6	11168.9	11154.4	11114.7	11035.2
12.5°	10970.1	10937.6	10970.1	11013.5	11042.4	11053.2	11140.0	11187.0	11187.0	11150.8	11100.2
10°	10952.0	10887.0	10930.3	10970.1	10984.6	11049.6	11121.9	11172.5	11197.8	11168.9	11103.8
7.5°	10915.9	10872.5	10890.6	10908.7	10991.8	11038.8	11078.5	11132.8	11168.9	11165.3	11107.5
5°	10897.8	10843.6	10850.8	10926.7	10984.6	11017.1	11031.6	11078.5	11132.8	11143.6	11100.2
2.5°	10850.8	10825.5	10879.7	10887.0	10930.3	10955.6	10970.1	11013.5	11082.2	11107.5	11089.4
0°	10825.5	10789.4	10753.2	10782.2	10854.4	10908.7	10930.3	10995.4	11074.9	11100.2	11060.5



REPORT NUMBER: P628277
 CATALOG NUMBER: IFLD-S-SA6B-740-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°	101.2	97.6	94.0	90.4	94.0	94.0	94.0	90.4	94.0	90.4	90.4
85°	314.5	300.0	289.2	274.7	260.2	249.4	234.9	220.5	216.9	213.3	206.0
82.5°	542.2	524.1	506.0	484.3	462.7	437.4	412.1	383.1	375.9	368.7	357.8
80°	762.7	737.4	712.1	686.8	665.1	639.8	610.9	578.3	556.6	538.6	516.9
77.5°	994.0	957.9	921.7	878.3	853.0	827.7	798.8	766.3	733.8	704.8	672.3
75°	1257.9	1218.1	1182.0	1138.6	1091.6	1044.6	997.6	954.2	907.2	863.9	820.5
72.5°	1550.6	1492.8	1435.0	1380.8	1322.9	1265.1	1203.6	1145.8	1088.0	1030.1	968.7
70°	1857.9	1785.6	1713.3	1641.0	1565.1	1489.2	1416.9	1344.6	1272.3	1196.4	1127.7
67.5°	2219.3	2136.2	2042.2	1941.0	1829.0	1731.4	1637.4	1550.6	1463.9	1377.1	1290.4
65°	2671.1	2555.5	2429.0	2291.6	2161.5	2031.4	1894.0	1763.9	1662.7	1561.5	1463.9
62.5°	3227.8	3065.1	2888.0	2710.9	2551.9	2382.0	2222.9	2053.1	1894.0	1749.4	1630.2
60°	3892.9	3672.4	3455.5	3227.8	3007.3	2776.0	2573.5	2363.9	2165.1	1988.0	1814.5
57.5°	4626.6	4370.0	4109.7	3831.4	3531.4	3260.3	2985.6	2710.9	2476.0	2241.0	2045.8
55°	5371.2	5100.1	4807.3	4492.9	4163.9	3816.9	3444.6	3137.4	2815.7	2541.0	2288.0
52.5°	6079.6	5797.7	5494.1	5204.9	4810.9	4413.3	4004.9	3600.1	3224.2	2873.6	2566.3
50°	6712.2	6437.5	6144.7	5808.6	5443.5	5020.6	4565.2	4109.7	3665.1	3253.1	2869.9
47.5°	7290.5	7023.0	6730.3	6394.1	6061.6	5591.7	5132.6	4630.2	4135.0	3661.5	3213.3
45°	7832.7	7561.6	7258.0	6936.3	6553.1	6133.9	5660.4	5154.3	4623.0	4091.7	3574.8
42.5°	8324.3	8053.2	7745.9	7413.4	7033.9	6618.2	6159.2	5649.5	5114.6	4536.2	3968.8
40°	8754.4	8490.5	8194.1	7847.2	7492.9	7055.6	6603.8	6119.4	5566.4	4984.4	4359.1
37.5°	9130.3	8884.5	8591.7	8248.4	7872.5	7482.1	7015.8	6531.5	6032.7	5400.1	4760.3
35°	9462.8	9235.1	8935.1	8609.8	8241.1	7829.1	7391.7	6918.2	6379.7	5786.9	5165.2
32.5°	9752.0	9520.7	9246.0	8920.7	8562.8	8176.1	7727.9	7250.8	6741.1	6137.5	5461.6
30°	9997.8	9773.7	9513.5	9206.2	8862.8	8479.7	8042.3	7561.6	7041.1	6441.1	5772.4
27.5°	10211.1	9997.8	9744.8	9459.2	9130.3	8761.6	8320.7	7836.3	7305.0	6726.6	6058.0
25°	10395.4	10189.4	9954.4	9683.3	9358.0	8996.6	8580.9	8074.9	7543.5	6961.6	6300.1
22.5°	10561.7	10362.9	10127.9	9864.1	9567.7	9206.2	8786.9	8284.5	7745.9	7171.2	6520.6
20°	10709.9	10525.5	10294.2	10023.1	9726.7	9361.6	8946.0	8468.9	7926.7	7362.8	6719.4
17.5°	10829.1	10666.5	10435.2	10149.6	9853.2	9499.0	9094.2	8656.8	8082.1	7525.5	6885.7
15°	10912.3	10753.2	10543.6	10254.4	9965.3	9614.7	9209.8	8758.0	8223.1	7655.6	7023.0
12.5°	10970.1	10800.2	10605.0	10337.6	10048.4	9701.4	9307.4	8862.8	8342.3	7771.2	7142.3
10°	10984.6	10829.1	10634.0	10395.4	10113.5	9777.3	9390.6	8949.6	8439.9	7861.6	7239.9
7.5°	10991.8	10843.6	10666.5	10438.8	10160.5	9835.1	9452.0	9018.3	8512.2	7937.5	7312.2
5°	10988.2	10847.2	10688.2	10467.7	10189.4	9867.7	9491.8	9065.2	8562.8	7988.1	7366.4
2.5°	10977.3	10850.8	10702.6	10489.4	10221.9	9903.8	9531.5	9119.5	8617.0	8031.5	7409.8
0°	11006.3	10897.8	10709.9	10482.1	10229.1	9903.8	9527.9	9126.7	8624.3	8027.9	7406.2



REPORT NUMBER: P628277
 CATALOG NUMBER: IFLD-S-SA6B-740-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°	90.4	86.7	86.7	83.1	79.5	75.9	68.7	65.1	57.8	47.0	36.1
85°	195.2	184.3	173.5	166.3	159.0	151.8	141.0	130.1	115.7	94.0	72.3
82.5°	343.4	321.7	300.0	274.7	253.0	231.3	213.3	195.2	173.5	141.0	108.4
80°	491.6	459.0	426.5	390.4	357.8	321.7	289.2	260.2	231.3	188.0	144.6
77.5°	639.8	596.4	549.4	506.0	459.0	412.1	365.1	325.3	281.9	231.3	180.7
75°	777.1	726.5	683.1	621.7	563.9	502.4	441.0	386.8	332.5	271.1	216.9
72.5°	914.5	849.4	788.0	730.1	665.1	589.2	520.5	451.8	383.1	310.8	245.8
70°	1051.8	972.3	896.4	827.7	755.4	679.5	596.4	516.9	433.7	347.0	271.1
67.5°	1192.8	1102.4	1015.7	928.9	845.8	759.1	672.3	581.9	484.3	383.1	300.0
65°	1348.2	1236.2	1131.3	1033.8	936.2	842.2	744.6	647.0	538.6	422.9	325.3
62.5°	1503.6	1380.8	1257.9	1135.0	1026.5	921.7	816.9	708.4	589.2	466.3	350.6
60°	1669.9	1528.9	1388.0	1250.6	1116.9	1001.2	885.6	769.9	643.4	506.0	375.9
57.5°	1854.3	1684.4	1525.3	1369.9	1218.1	1080.7	954.2	831.3	690.4	545.8	404.8
55°	2063.9	1854.3	1666.3	1492.8	1326.5	1160.3	1022.9	896.4	744.6	585.6	437.4
52.5°	2284.4	2042.2	1814.5	1619.3	1442.2	1254.2	1088.0	947.0	798.8	625.3	466.3
50°	2541.0	2233.8	1980.8	1742.2	1543.4	1348.2	1156.7	1004.8	853.0	672.3	495.2
47.5°	2804.9	2465.1	2147.0	1886.8	1651.8	1438.6	1236.2	1055.4	903.6	715.7	524.1
45°	3112.1	2685.6	2335.0	2027.8	1756.7	1532.6	1315.7	1109.7	947.0	759.1	553.0
42.5°	3408.5	2945.8	2530.2	2183.2	1875.9	1622.9	1388.0	1167.5	990.4	802.4	578.3
40°	3759.1	3206.1	2718.1	2331.4	1995.2	1709.7	1460.3	1228.9	1030.1	842.2	603.6
37.5°	4095.3	3470.0	2945.8	2494.0	2110.9	1796.4	1532.6	1286.8	1066.3	881.9	636.2
35°	4427.8	3762.7	3162.7	2645.8	2230.2	1894.0	1604.9	1341.0	1102.4	914.5	665.1
32.5°	4745.9	4037.4	3383.2	2815.7	2360.3	1984.4	1669.9	1391.6	1138.6	943.4	694.0
30°	5042.3	4297.7	3600.1	2989.2	2479.6	2067.5	1731.4	1442.2	1182.0	968.7	722.9
27.5°	5313.4	4550.7	3816.9	3151.9	2591.6	2143.4	1796.4	1489.2	1218.1	994.0	748.2
25°	5559.2	4778.4	4015.7	3300.1	2692.8	2226.6	1857.9	1536.2	1250.6	1015.7	769.9
22.5°	5790.5	4988.1	4196.5	3448.3	2815.7	2309.7	1915.7	1579.6	1283.2	1037.4	791.6
20°	5992.9	5179.6	4370.0	3596.5	2924.2	2385.6	1966.3	1619.3	1312.1	1051.8	813.3
17.5°	6155.5	5349.5	4525.4	3726.6	3018.1	2450.7	2009.7	1655.5	1337.4	1069.9	827.7
15°	6300.1	5494.1	4655.5	3838.6	3101.3	2504.9	2049.4	1684.4	1359.1	1080.7	845.8
12.5°	6423.0	5617.0	4767.6	3936.2	3173.6	2551.9	2082.0	1706.1	1377.1	1091.6	856.6
10°	6524.2	5714.6	4861.5	4012.1	3231.4	2588.0	2107.3	1727.7	1391.6	1102.4	867.5
7.5°	6600.1	5786.9	4930.2	4077.2	3278.4	2613.3	2129.0	1742.2	1406.1	1109.7	885.6
5°	6658.0	5848.3	4984.4	4120.6	3314.5	2649.5	2154.3	1760.3	1420.5	1116.9	885.6
2.5°	6701.3	5898.9	5027.8	4156.7	3343.4	2642.2	2154.3	1756.7	1420.5	1116.9	881.9
0°	6694.1	5902.5	5024.2	4156.7	3343.4	2635.0	2154.3	1753.0	1420.5	1116.9	881.9



REPORT NUMBER: P628277
 CATALOG NUMBER: IFLD-S-SA6B-740-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	25.3	18.1	7.2	0.0
85°	54.2	36.1	18.1	0.0
82.5°	79.5	50.6	25.3	0.0
80°	104.8	68.7	32.5	0.0
77.5°	133.7	86.7	43.4	0.0
75°	159.0	101.2	50.6	0.0
72.5°	184.3	119.3	57.8	0.0
70°	206.0	133.7	65.1	0.0
67.5°	227.7	151.8	75.9	0.0
65°	245.8	166.3	83.1	0.0
62.5°	260.2	184.3	90.4	0.0
60°	278.3	198.8	97.6	0.0
57.5°	292.8	209.6	104.8	0.0
55°	307.2	216.9	112.1	0.0
52.5°	321.7	227.7	119.3	0.0
50°	336.2	238.6	126.5	0.0
47.5°	350.6	245.8	130.1	0.0
45°	372.3	256.6	137.4	0.0
42.5°	390.4	263.9	144.6	0.0
40°	408.4	271.1	148.2	0.0
37.5°	426.5	278.3	155.4	0.0
35°	444.6	285.5	159.0	0.0
32.5°	459.0	292.8	162.7	0.0
30°	473.5	300.0	166.3	0.0
27.5°	488.0	303.6	169.9	0.0
25°	498.8	310.8	173.5	0.0
22.5°	509.6	314.5	177.1	0.0
20°	516.9	318.1	180.7	0.0
17.5°	527.7	321.7	184.3	0.0
15°	531.3	325.3	191.6	0.0
12.5°	538.6	328.9	191.6	0.0
10°	542.2	332.5	191.6	0.0
7.5°	549.4	332.5	191.6	0.0
5°	545.8	332.5	191.6	0.0
2.5°	545.8	332.5	191.6	0.0
0°	542.2	332.5	191.6	0.0

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