

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: P628360

Luminaire Tested: **IFLD-S-SA3C-827-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628360
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

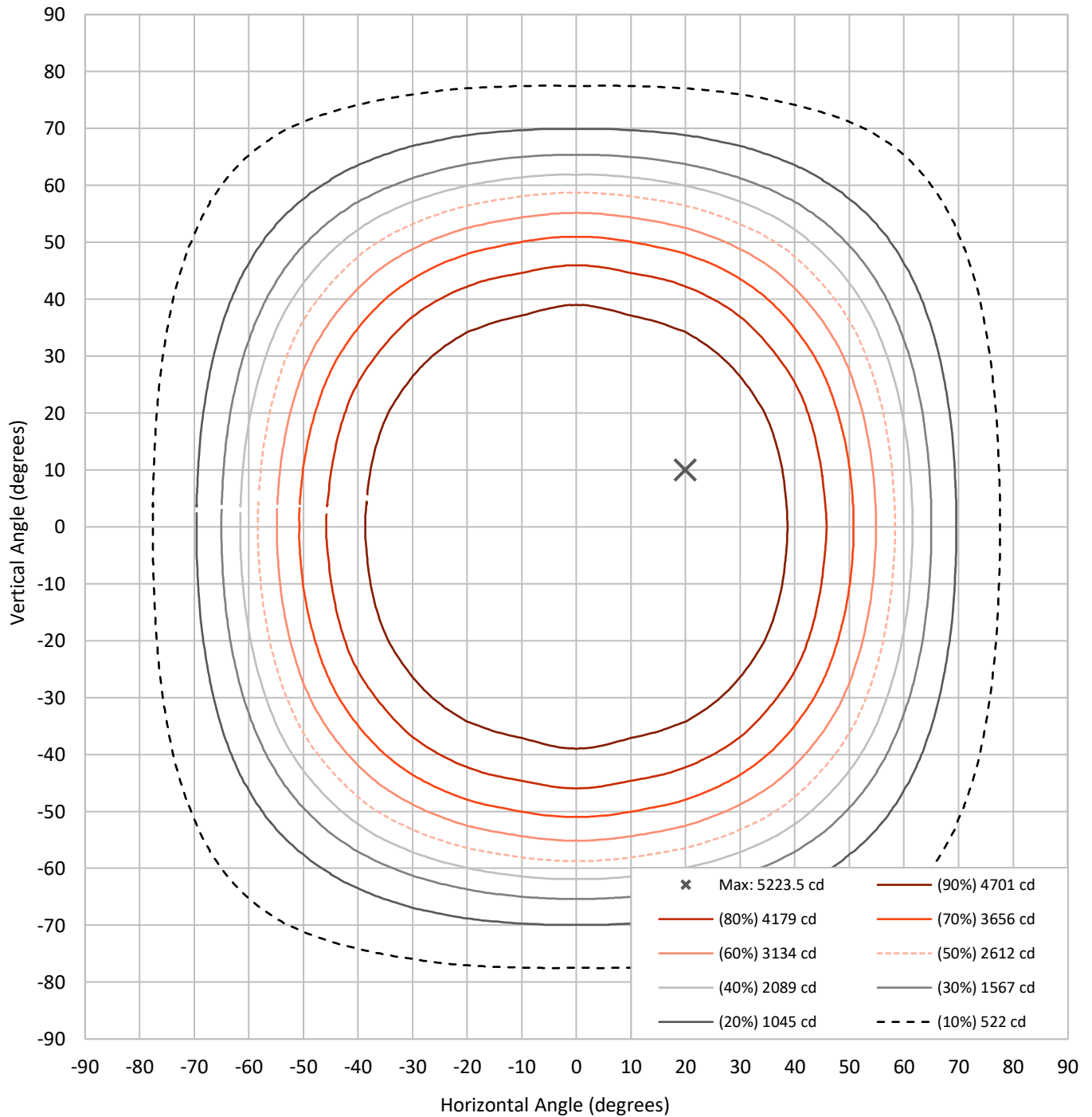
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	16025.1 lumens	Max Intensity:	5223.5 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	99.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	9833.3 lumens	Field Lumens:	11788.5 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%
Input Watts (W):	160.8		
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: P628360
CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM

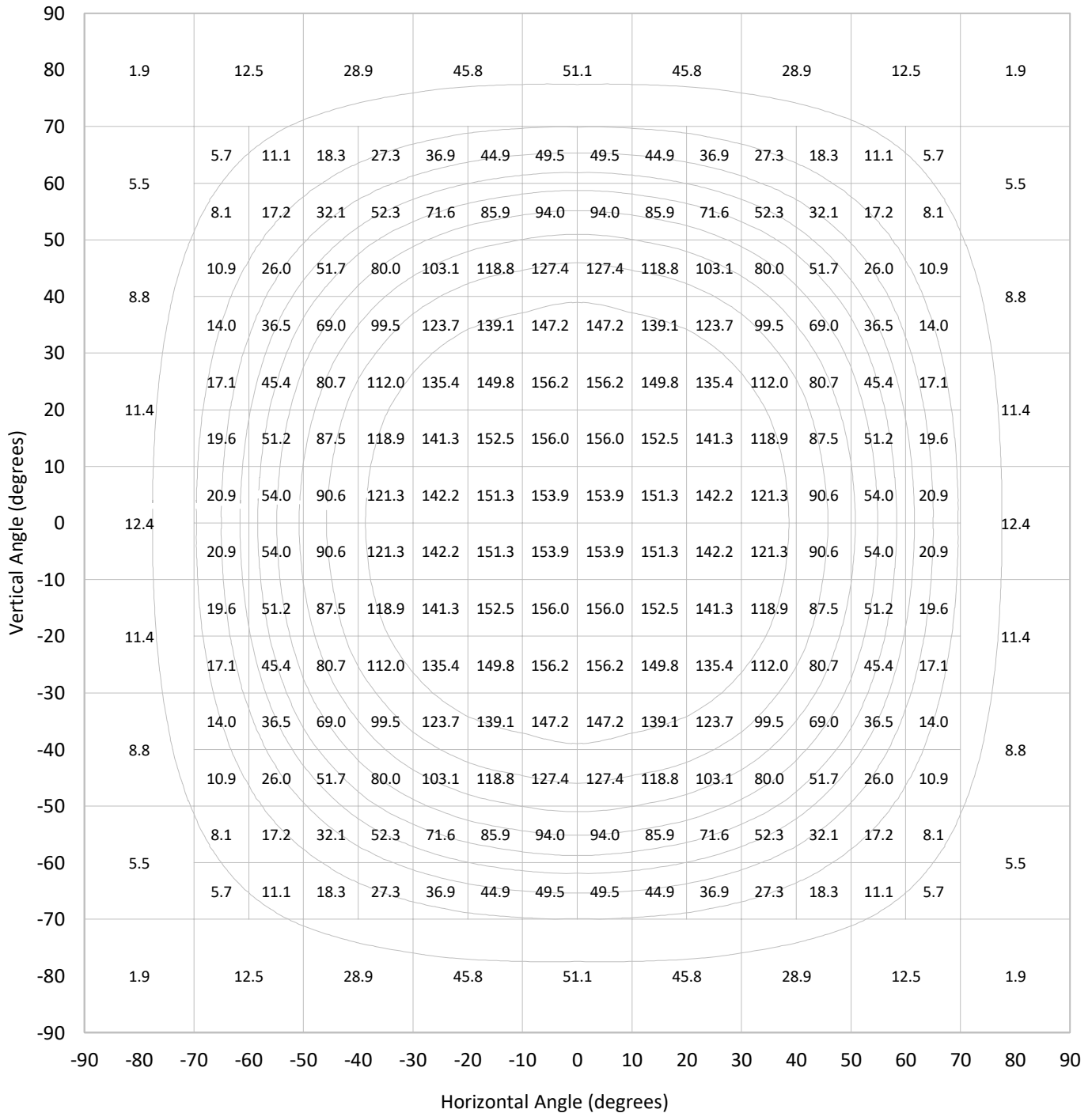
Iso-Candela Plot





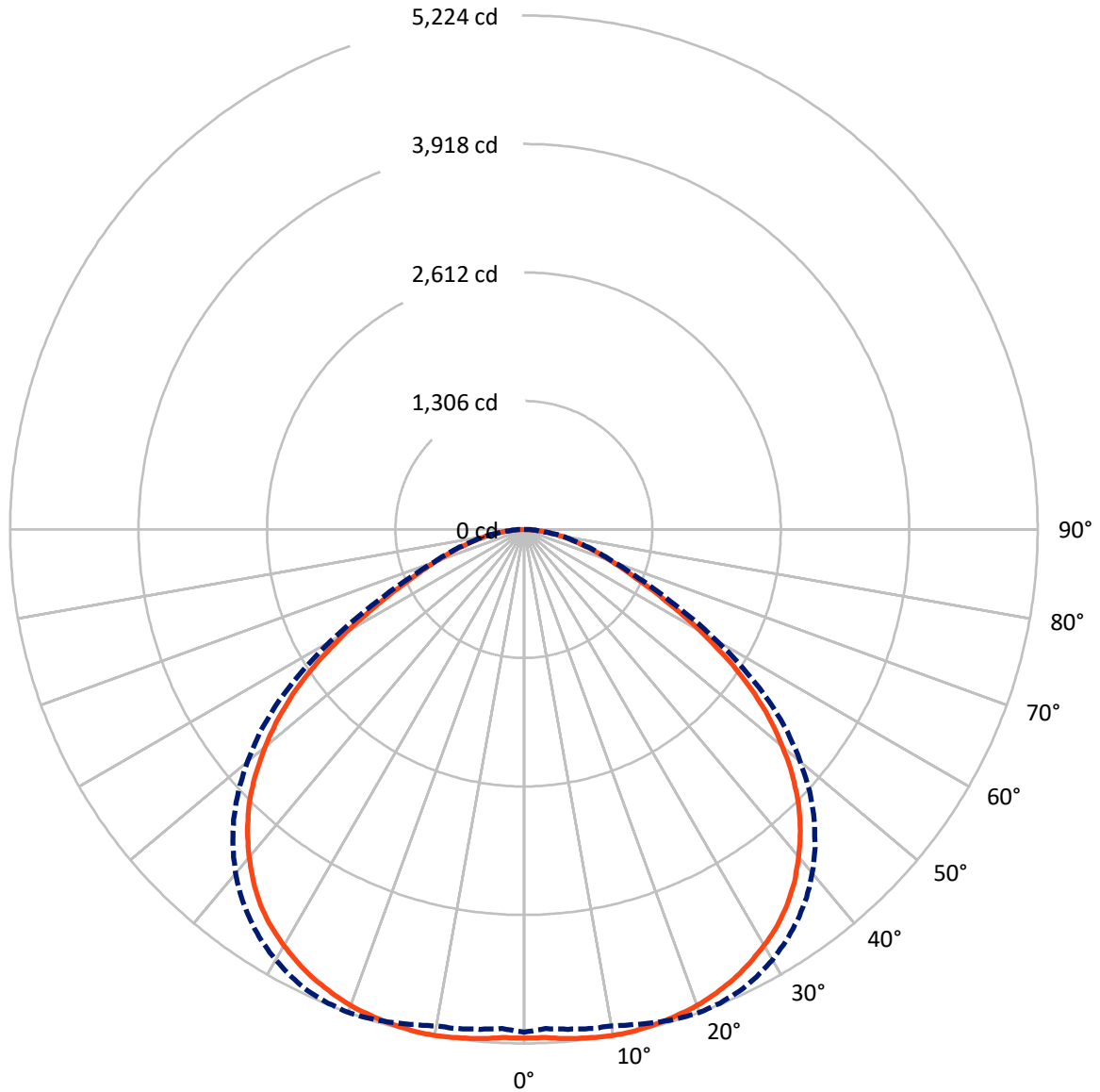
REPORT NUMBER: P628360
 CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM

Lumen Table



REPORT NUMBER: P628360
CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM

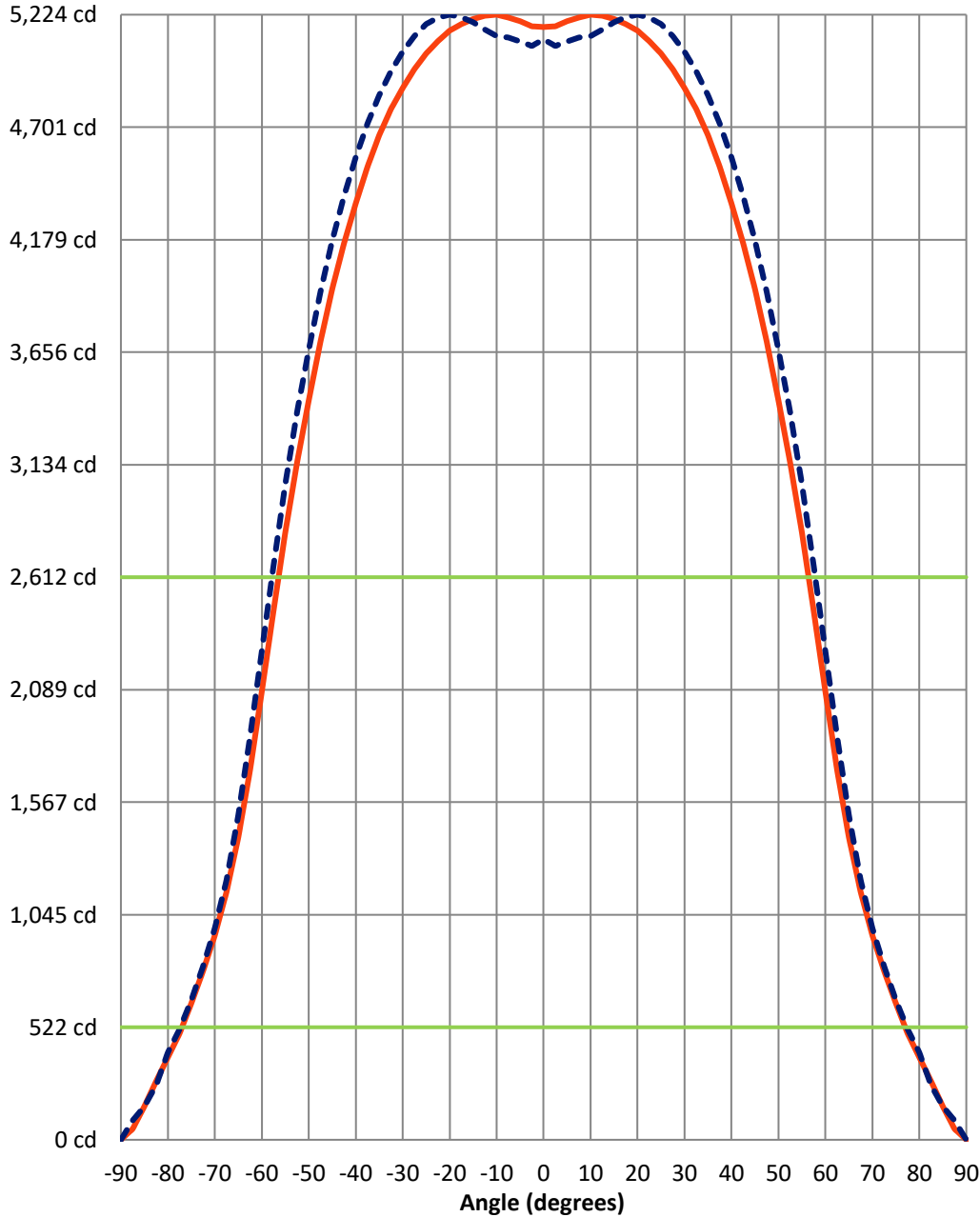
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628360
 CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 9833.3
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 11788.5
 Efficiency: 73.6%

Spill:
 Lumens: 4236.6
 Efficiency: 26.4%

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



REPORT NUMBER: P628360
 CATALOG NUMBER: IFLD-S-SA3C-827-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°	42.2	45.5	47.2	48.9	50.6	52.3	54.0	52.3	50.6	50.6	48.9
85°	113.0	116.3	118.0	129.8	141.6	148.4	156.8	155.1	155.1	153.4	151.7
82.5°	225.9	236.1	244.5	256.3	263.0	273.1	279.9	274.8	271.5	264.7	259.7
80°	401.3	404.7	406.3	408.0	399.6	397.9	394.5	389.5	382.7	374.3	365.9
77.5°	510.9	514.3	517.6	514.3	512.6	510.9	505.8	500.8	494.0	487.3	477.2
75°	676.1	676.1	676.1	671.1	667.7	662.6	654.2	645.8	634.0	620.5	605.3
72.5°	851.5	849.8	848.1	838.0	829.6	819.4	807.6	797.5	784.0	768.9	748.6
70°	1035.3	1038.6	1040.3	1026.8	1016.7	1003.2	988.1	969.5	949.3	927.4	898.7
67.5°	1288.2	1284.8	1281.4	1262.9	1249.4	1230.9	1208.9	1182.0	1151.6	1117.9	1077.4
65°	1601.8	1606.9	1596.7	1578.2	1552.9	1522.5	1488.8	1450.0	1404.5	1353.9	1296.6
62.5°	1981.2	1989.6	1977.8	1954.2	1922.2	1881.7	1834.5	1778.8	1716.4	1645.6	1574.8
60°	2412.8	2411.1	2389.2	2357.2	2315.0	2264.4	2212.2	2151.5	2080.6	1998.0	1912.0
57.5°	2809.0	2805.7	2778.7	2746.7	2704.5	2650.5	2594.9	2530.8	2456.6	2369.0	2269.5
55°	3164.8	3161.4	3134.5	3100.7	3056.9	3002.9	2952.4	2891.7	2819.2	2726.4	2620.2
52.5°	3480.1	3481.8	3458.2	3421.1	3373.9	3321.6	3272.7	3212.0	3142.9	3050.2	2947.3
50°	3770.1	3768.4	3743.1	3709.4	3665.6	3615.0	3566.1	3505.4	3432.9	3343.5	3244.1
47.5°	4039.9	4036.5	4007.9	3970.8	3925.2	3881.4	3835.9	3781.9	3706.0	3616.7	3517.2
45°	4265.8	4259.1	4230.4	4195.0	4151.2	4112.4	4071.9	4031.5	3950.5	3867.9	3773.5
42.5°	4459.7	4458.0	4429.4	4394.0	4350.1	4316.4	4279.3	4228.7	4161.3	4085.4	3992.7
40°	4645.2	4631.7	4603.0	4569.3	4528.9	4500.2	4463.1	4412.5	4346.8	4272.6	4183.2
37.5°	4783.5	4785.1	4754.8	4717.7	4682.3	4655.3	4621.6	4574.4	4517.1	4444.6	4355.2
35°	4915.0	4906.5	4881.3	4849.2	4817.2	4786.8	4751.4	4711.0	4663.7	4596.3	4512.0
32.5°	5001.0	5012.8	4982.4	4948.7	4930.2	4906.5	4869.5	4827.3	4785.1	4717.7	4641.8
30°	5095.4	5085.3	5061.7	5033.0	5019.5	5004.3	4972.3	4931.8	4882.9	4822.2	4751.4
27.5°	5161.1	5156.1	5127.4	5100.4	5093.7	5080.2	5054.9	5019.5	4970.6	4911.6	4845.8
25°	5189.8	5193.2	5166.2	5151.0	5151.0	5142.6	5122.4	5092.0	5043.1	4989.2	4925.1
22.5°	5203.3	5199.9	5181.4	5178.0	5186.4	5179.7	5171.3	5144.3	5100.4	5056.6	5002.7
20°	5211.7	5188.1	5171.3	5184.8	5194.9	5193.2	5186.4	5169.6	5149.3	5112.3	5065.0
17.5°	5193.2	5178.0	5157.8	5178.0	5199.9	5201.6	5194.9	5184.8	5179.7	5156.1	5113.9
15°	5147.7	5135.9	5139.2	5159.5	5184.8	5193.2	5198.2	5210.0	5203.3	5184.8	5147.7
12.5°	5117.3	5102.1	5117.3	5137.5	5151.0	5156.1	5196.6	5218.5	5218.5	5201.6	5178.0
10°	5108.9	5078.5	5098.8	5117.3	5124.1	5154.4	5188.1	5211.7	5223.5	5210.0	5179.7
7.5°	5092.0	5071.8	5080.2	5088.6	5127.4	5149.3	5167.9	5193.2	5210.0	5208.4	5181.4
5°	5083.6	5058.3	5061.7	5097.1	5124.1	5139.2	5146.0	5167.9	5193.2	5198.2	5178.0
2.5°	5061.7	5049.9	5075.2	5078.5	5098.8	5110.6	5117.3	5137.5	5169.6	5181.4	5173.0
0°	5049.9	5033.0	5016.1	5029.6	5063.4	5088.6	5098.8	5129.1	5166.2	5178.0	5159.5



REPORT NUMBER: P628360
 CATALOG NUMBER: IFLD-S-SA3C-827-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°	47.2	45.5	43.8	42.2	43.8	43.8	43.8	42.2	43.8	42.2	42.2
85°	146.7	139.9	134.9	128.1	121.4	116.3	109.6	102.9	101.2	99.5	96.1
82.5°	252.9	244.5	236.1	225.9	215.8	204.0	192.2	178.7	175.4	172.0	166.9
80°	355.8	344.0	332.2	320.4	310.2	298.4	285.0	269.8	259.7	251.2	241.1
77.5°	463.7	446.8	430.0	409.7	397.9	386.1	372.6	357.5	342.3	328.8	313.6
75°	586.8	568.2	551.4	531.1	509.2	487.3	465.4	445.1	423.2	403.0	382.7
72.5°	723.3	696.4	669.4	644.1	617.1	590.1	561.5	534.5	507.5	480.5	451.9
70°	866.7	832.9	799.2	765.5	730.1	694.7	661.0	627.2	593.5	558.1	526.1
67.5°	1035.3	996.5	952.6	905.4	853.2	807.6	763.8	723.3	682.9	642.4	601.9
65°	1246.0	1192.1	1133.1	1069.0	1008.3	947.6	883.5	822.8	775.6	728.4	682.9
62.5°	1505.7	1429.8	1347.2	1264.6	1190.4	1111.1	1037.0	957.7	883.5	816.1	760.4
60°	1815.9	1713.1	1611.9	1505.7	1402.8	1294.9	1200.5	1102.7	1010.0	927.4	846.4
57.5°	2158.2	2038.5	1917.1	1787.3	1647.3	1520.9	1392.7	1264.6	1155.0	1045.4	954.3
55°	2505.5	2379.1	2242.5	2095.8	1942.4	1780.5	1606.9	1463.5	1313.5	1185.3	1067.3
52.5°	2836.0	2704.5	2562.9	2428.0	2244.2	2058.7	1868.2	1679.4	1504.0	1340.4	1197.1
50°	3131.1	3002.9	2866.4	2709.6	2539.3	2342.0	2129.5	1917.1	1709.7	1517.5	1338.8
47.5°	3400.9	3276.1	3139.5	2982.7	2827.6	2608.4	2394.3	2159.9	1928.9	1708.0	1498.9
45°	3653.8	3527.3	3385.7	3235.6	3056.9	2861.3	2640.4	2404.4	2156.5	1908.7	1667.6
42.5°	3883.1	3756.6	3613.3	3458.2	3281.1	3087.2	2873.1	2635.4	2385.8	2116.1	1851.3
40°	4083.7	3960.6	3822.4	3660.5	3495.3	3291.3	3080.5	2854.6	2596.6	2325.1	2033.4
37.5°	4259.1	4144.4	4007.9	3847.7	3672.3	3490.2	3272.7	3046.8	2814.1	2519.0	2220.6
35°	4414.2	4308.0	4168.0	4016.3	3844.3	3652.1	3448.1	3227.2	2976.0	2699.4	2409.4
32.5°	4549.1	4441.2	4313.0	4161.3	3994.4	3814.0	3604.9	3382.3	3144.6	2863.0	2547.7
30°	4663.7	4559.2	4437.8	4294.5	4134.3	3955.6	3751.6	3527.3	3284.5	3004.6	2692.7
27.5°	4763.2	4663.7	4545.7	4412.5	4259.1	4087.1	3881.4	3655.5	3407.6	3137.8	2825.9
25°	4849.2	4753.1	4643.5	4517.1	4365.3	4196.7	4002.8	3766.7	3518.9	3247.4	2938.9
22.5°	4926.8	4834.0	4724.4	4601.4	4463.1	4294.5	4098.9	3864.5	3613.3	3345.2	3041.7
20°	4995.9	4909.9	4802.0	4675.6	4537.3	4367.0	4173.1	3950.5	3697.6	3434.6	3134.5
17.5°	5051.6	4975.7	4867.8	4734.6	4596.3	4431.1	4242.2	4038.2	3770.1	3510.5	3212.0
15°	5090.3	5016.1	4918.4	4783.5	4648.6	4485.0	4296.2	4085.4	3835.9	3571.2	3276.1
12.5°	5117.3	5038.1	4947.0	4822.2	4687.4	4525.5	4341.7	4134.3	3891.5	3625.1	3331.7
10°	5124.1	5051.6	4960.5	4849.2	4717.7	4560.9	4380.5	4174.8	3937.0	3667.3	3377.3
7.5°	5127.4	5058.3	4975.7	4869.5	4739.6	4587.9	4409.1	4206.8	3970.8	3702.7	3411.0
5°	5125.7	5060.0	4985.8	4882.9	4753.1	4603.0	4427.7	4228.7	3994.4	3726.3	3436.3
2.5°	5120.7	5061.7	4992.5	4893.1	4768.3	4619.9	4446.2	4254.0	4019.7	3746.5	3456.5
0°	5134.2	5083.6	4995.9	4889.7	4771.7	4619.9	4444.6	4257.4	4023.0	3744.8	3454.8



REPORT NUMBER: P628360
 CATALOG NUMBER: IFLD-S-SA3C-827-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°	42.2	40.5	40.5	38.8	37.1	35.4	32.0	30.3	27.0	21.9	16.9
85°	91.0	86.0	80.9	77.6	74.2	70.8	65.8	60.7	54.0	43.8	33.7
82.5°	160.2	150.1	139.9	128.1	118.0	107.9	99.5	91.0	80.9	65.8	50.6
80°	229.3	214.1	199.0	182.1	166.9	150.1	134.9	121.4	107.9	87.7	67.4
77.5°	298.4	278.2	256.3	236.1	214.1	192.2	170.3	151.7	131.5	107.9	84.3
75°	362.5	338.9	318.7	290.0	263.0	234.4	205.7	180.4	155.1	126.5	101.2
72.5°	426.6	396.2	367.6	340.6	310.2	274.8	242.8	210.8	178.7	145.0	114.7
70°	490.7	453.6	418.2	386.1	352.4	317.0	278.2	241.1	202.3	161.9	126.5
67.5°	556.4	514.3	473.8	433.3	394.5	354.1	313.6	271.5	225.9	178.7	139.9
65°	628.9	576.6	527.7	482.2	436.7	392.9	347.3	301.8	251.2	197.3	151.7
62.5°	701.4	644.1	586.8	529.4	478.9	430.0	381.1	330.5	274.8	217.5	163.6
60°	779.0	713.2	647.5	583.4	521.0	467.0	413.1	359.1	300.1	236.1	175.4
57.5°	865.0	785.7	711.5	639.0	568.2	504.1	445.1	387.8	322.0	254.6	188.8
55°	962.8	865.0	777.3	696.4	618.8	541.2	477.2	418.2	347.3	273.1	204.0
52.5°	1065.6	952.6	846.4	755.4	672.8	585.1	507.5	441.8	372.6	291.7	217.5
50°	1185.3	1042.0	924.0	812.7	720.0	628.9	539.6	468.7	397.9	313.6	231.0
47.5°	1308.4	1149.9	1001.5	880.1	770.5	671.1	576.6	492.3	421.5	333.8	244.5
45°	1451.7	1252.8	1089.2	945.9	819.4	714.9	613.7	517.6	441.8	354.1	258.0
42.5°	1590.0	1374.2	1180.3	1018.4	875.1	757.1	647.5	544.6	462.0	374.3	269.8
40°	1753.5	1495.6	1267.9	1087.5	930.7	797.5	681.2	573.3	480.5	392.9	281.6
37.5°	1910.4	1618.7	1374.2	1163.4	984.7	838.0	714.9	600.3	497.4	411.4	296.8
35°	2065.5	1755.2	1475.3	1234.2	1040.3	883.5	748.6	625.5	514.3	426.6	310.2
32.5°	2213.8	1883.4	1578.2	1313.5	1101.0	925.7	779.0	649.1	531.1	440.1	323.7
30°	2352.1	2004.8	1679.4	1394.4	1156.7	964.4	807.6	672.8	551.4	451.9	337.2
27.5°	2478.6	2122.8	1780.5	1470.3	1208.9	999.9	838.0	694.7	568.2	463.7	349.0
25°	2593.2	2229.0	1873.3	1539.4	1256.1	1038.6	866.7	716.6	583.4	473.8	359.1
22.5°	2701.1	2326.8	1957.6	1608.5	1313.5	1077.4	893.6	736.8	598.6	483.9	369.3
20°	2795.6	2416.2	2038.5	1677.7	1364.1	1112.8	917.2	755.4	612.1	490.7	379.4
17.5°	2871.4	2495.4	2111.0	1738.4	1407.9	1143.2	937.5	772.2	623.9	499.1	386.1
15°	2938.9	2562.9	2171.7	1790.6	1446.7	1168.5	956.0	785.7	634.0	504.1	394.5
12.5°	2996.2	2620.2	2224.0	1836.2	1480.4	1190.4	971.2	795.8	642.4	509.2	399.6
10°	3043.4	2665.7	2267.8	1871.6	1507.4	1207.2	983.0	806.0	649.1	514.3	404.7
7.5°	3078.8	2699.4	2299.8	1901.9	1529.3	1219.0	993.1	812.7	655.9	517.6	413.1
5°	3105.8	2728.1	2325.1	1922.2	1546.2	1235.9	1004.9	821.1	662.6	521.0	413.1
2.5°	3126.0	2751.7	2345.4	1939.0	1559.6	1232.5	1004.9	819.4	662.6	521.0	411.4
0°	3122.7	2753.4	2343.7	1939.0	1559.6	1229.2	1004.9	817.8	662.6	521.0	411.4



REPORT NUMBER: P628360
 CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.8	8.4	3.4	0.0
85°	25.3	16.9	8.4	0.0
82.5°	37.1	23.6	11.8	0.0
80°	48.9	32.0	15.2	0.0
77.5°	62.4	40.5	20.2	0.0
75°	74.2	47.2	23.6	0.0
72.5°	86.0	55.6	27.0	0.0
70°	96.1	62.4	30.3	0.0
67.5°	106.2	70.8	35.4	0.0
65°	114.7	77.6	38.8	0.0
62.5°	121.4	86.0	42.2	0.0
60°	129.8	92.7	45.5	0.0
57.5°	136.6	97.8	48.9	0.0
55°	143.3	101.2	52.3	0.0
52.5°	150.1	106.2	55.6	0.0
50°	156.8	111.3	59.0	0.0
47.5°	163.6	114.7	60.7	0.0
45°	173.7	119.7	64.1	0.0
42.5°	182.1	123.1	67.4	0.0
40°	190.5	126.5	69.1	0.0
37.5°	199.0	129.8	72.5	0.0
35°	207.4	133.2	74.2	0.0
32.5°	214.1	136.6	75.9	0.0
30°	220.9	139.9	77.6	0.0
27.5°	227.6	141.6	79.2	0.0
25°	232.7	145.0	80.9	0.0
22.5°	237.7	146.7	82.6	0.0
20°	241.1	148.4	84.3	0.0
17.5°	246.2	150.1	86.0	0.0
15°	247.9	151.7	89.4	0.0
12.5°	251.2	153.4	89.4	0.0
10°	252.9	155.1	89.4	0.0
7.5°	256.3	155.1	89.4	0.0
5°	254.6	155.1	89.4	0.0
2.5°	254.6	155.1	89.4	0.0
0°	252.9	155.1	89.4	0.0

(END OF REPORT)