

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: P628435

Luminaire Tested: **IFLD-L-SA7E-927-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-927-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36782 lumens	Max Intensity:	11989.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	69.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

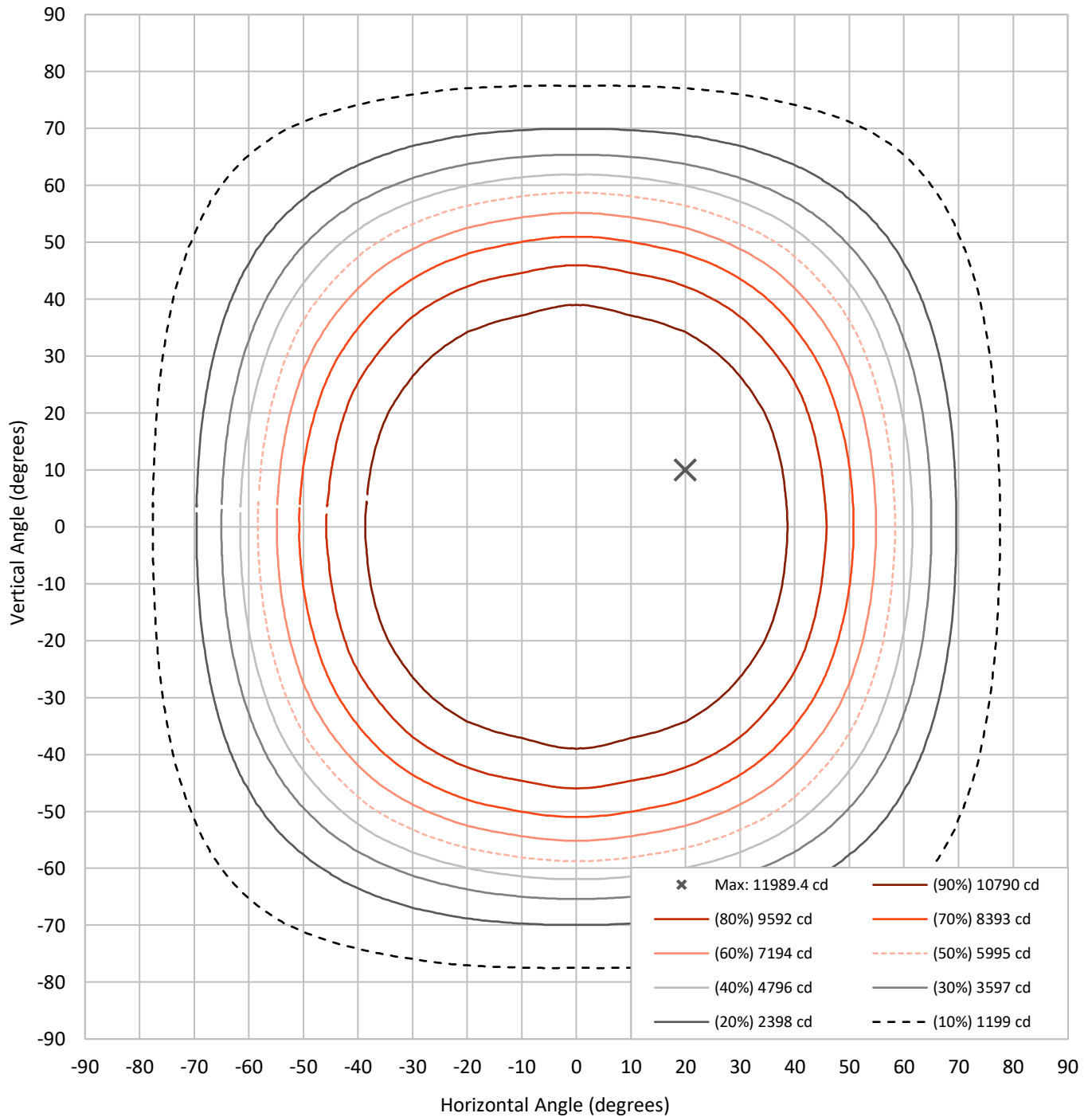
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22570.2 lumens	Field Lumens:	27057.8 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 532.7
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



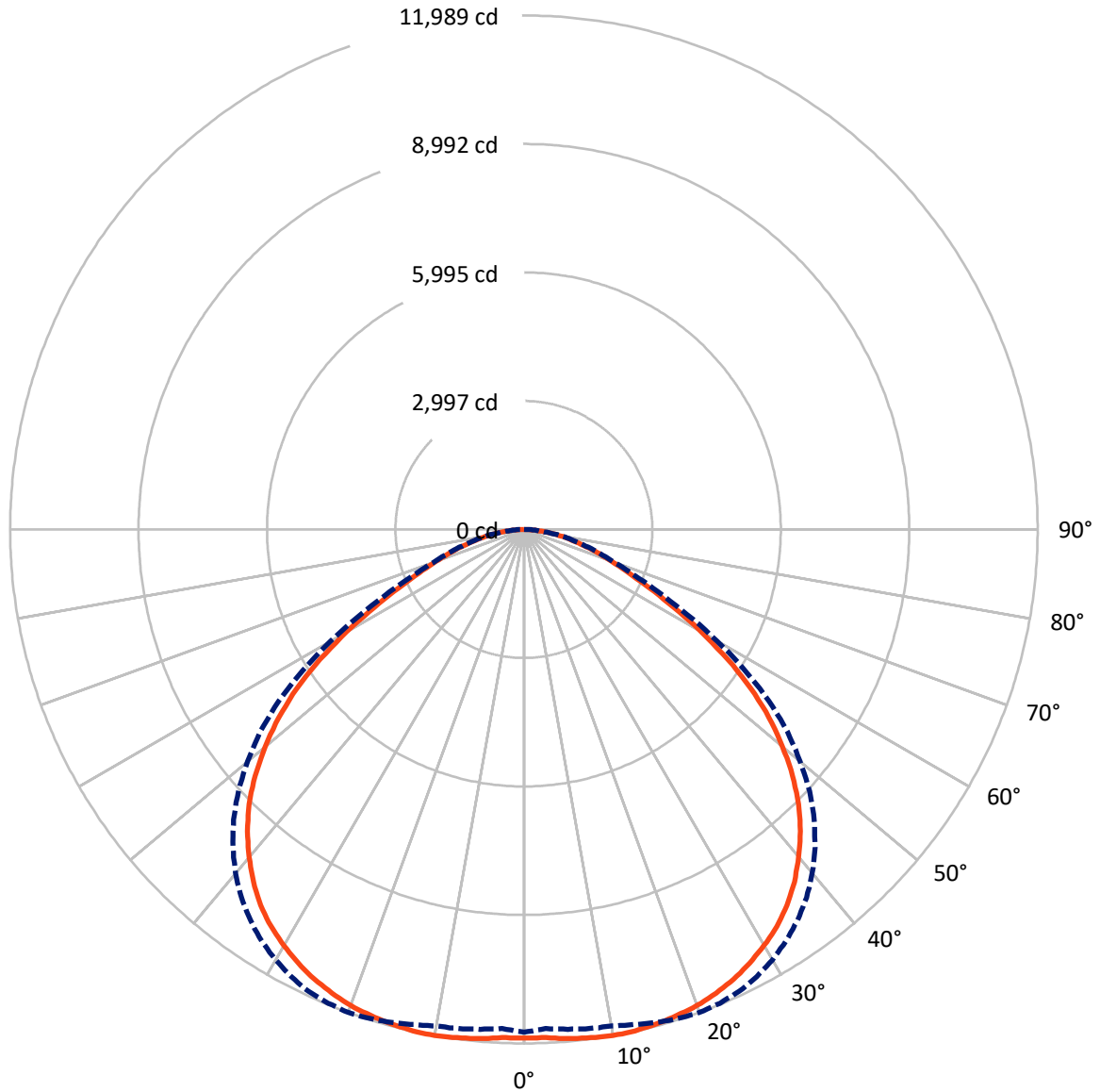
REPORT NUMBER: P628435
CATALOG NUMBER: IFLD-L-SA7E-927-U-LAM

Iso-Candela Plot



REPORT NUMBER: P628435
CATALOG NUMBER: IFLD-L-SA7E-927-U-LAM

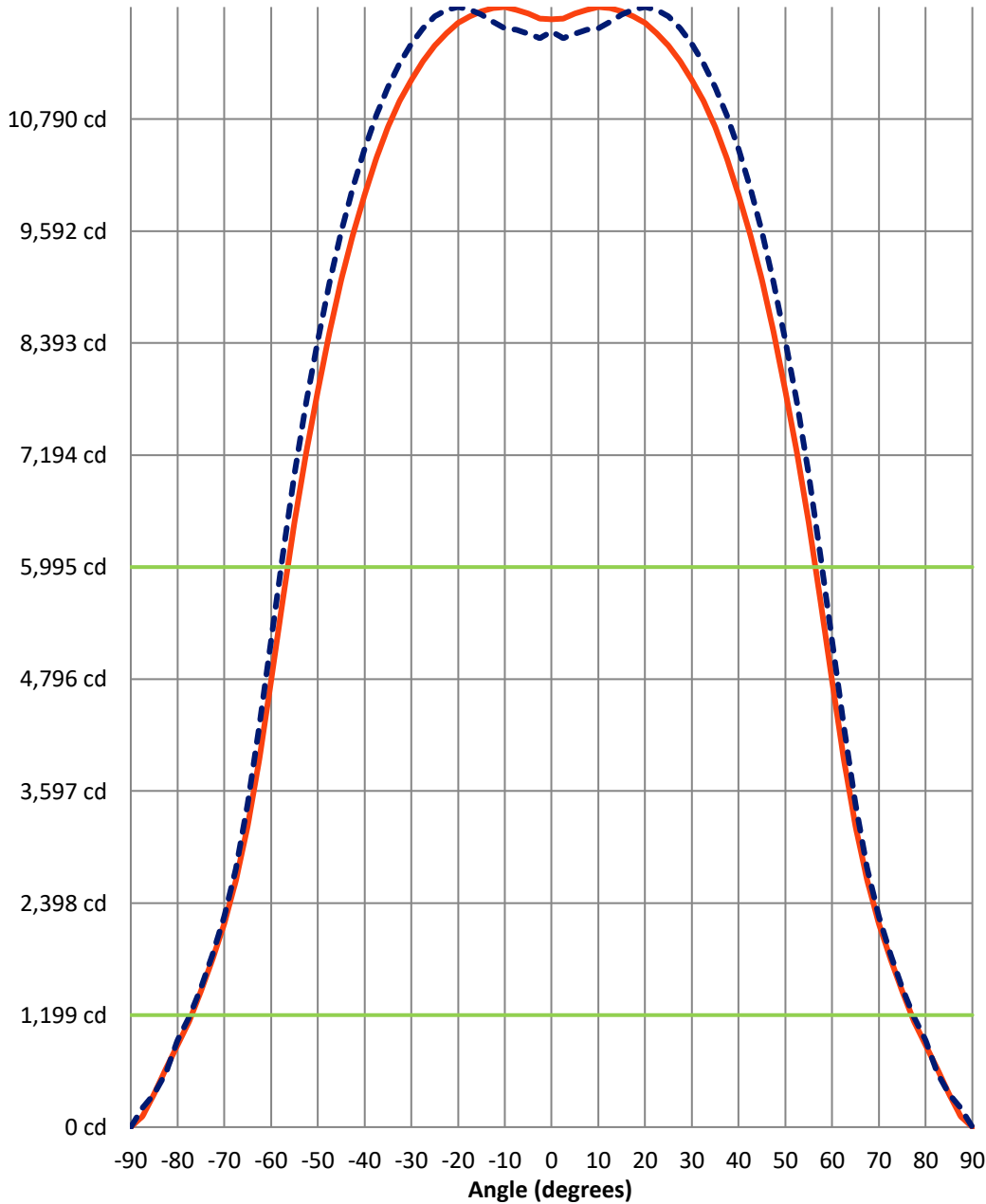
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628435
 CATALOG NUMBER: IFLD-L-SA7E-927-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 22570.2
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 27057.8
 Efficiency: 73.6%

Spill:
 Lumens: 9724.2
 Efficiency: 26.4%

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



REPORT NUMBER: P628435
 CATALOG NUMBER: IFLD-L-SA7E-927-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°	96.8	104.5	108.4	112.2	116.1	120.0	123.8	120.0	116.1	116.1	112.2
85°	259.3	267.0	270.9	298.0	325.1	340.6	359.9	356.0	356.0	352.2	348.3
82.5°	518.6	541.8	561.2	588.2	603.7	626.9	642.4	630.8	623.1	607.6	596.0
80°	921.1	928.8	932.7	936.6	917.2	913.3	905.6	894.0	878.5	859.2	839.8
77.5°	1172.6	1180.4	1188.1	1180.4	1176.5	1172.6	1161.0	1149.4	1133.9	1118.4	1095.2
75°	1551.9	1551.9	1551.9	1540.3	1532.5	1520.9	1501.6	1482.2	1455.1	1424.2	1389.4
72.5°	1954.4	1950.5	1946.6	1923.4	1904.1	1880.8	1853.8	1830.5	1799.6	1764.7	1718.3
70°	2376.2	2384.0	2387.8	2356.9	2333.6	2302.7	2267.9	2225.3	2178.8	2128.5	2062.7
67.5°	2956.7	2949.0	2941.2	2898.7	2867.7	2825.1	2774.8	2712.9	2643.2	2565.8	2473.0
65°	3676.6	3688.2	3664.9	3622.4	3564.3	3494.7	3417.3	3328.2	3223.8	3107.7	2976.1
62.5°	4547.3	4566.7	4539.6	4485.4	4411.9	4319.0	4210.6	4082.9	3939.7	3777.2	3614.6
60°	5538.1	5534.2	5483.9	5410.3	5313.6	5197.5	5077.5	4938.2	4775.7	4586.0	4388.6
57.5°	6447.5	6439.8	6377.9	6304.3	6207.6	6083.7	5956.0	5809.0	5638.7	5437.4	5209.1
55°	7264.1	7256.4	7194.4	7117.0	7016.4	6892.6	6776.5	6637.1	6470.7	6257.9	6014.1
52.5°	7987.8	7991.7	7937.5	7852.3	7744.0	7624.0	7511.8	7372.5	7213.8	7000.9	6764.9
50°	8653.4	8649.6	8591.5	8514.1	8413.5	8297.4	8185.2	8045.8	7879.4	7674.3	7446.0
47.5°	9272.7	9264.9	9199.1	9114.0	9009.5	8908.9	8804.4	8680.5	8506.4	8301.3	8072.9
45°	9791.2	9775.8	9710.0	9628.7	9528.1	9439.1	9346.2	9253.3	9067.5	8877.9	8661.2
42.5°	10236.3	10232.4	10166.6	10085.4	9984.7	9907.3	9822.2	9706.1	9551.3	9377.1	9164.3
40°	10662.0	10631.0	10565.3	10487.9	10395.0	10329.2	10244.0	10127.9	9977.0	9806.7	9601.6
37.5°	10979.4	10983.2	10913.6	10828.4	10747.1	10685.2	10607.8	10499.5	10367.9	10201.5	9996.4
35°	11281.2	11261.9	11203.8	11130.3	11056.8	10987.1	10905.8	10812.9	10704.6	10549.8	10356.3
32.5°	11478.6	11505.7	11436.0	11358.6	11316.0	11261.9	11176.7	11080.0	10983.2	10828.4	10654.3
30°	11695.3	11672.1	11617.9	11552.1	11521.2	11486.3	11412.8	11319.9	11207.7	11068.4	10905.8
27.5°	11846.2	11834.6	11768.8	11706.9	11691.4	11660.5	11602.4	11521.2	11408.9	11273.5	11122.5
25°	11912.0	11919.8	11857.9	11823.0	11823.0	11803.7	11757.2	11687.6	11575.3	11451.5	11304.4
22.5°	11943.0	11935.3	11892.7	11884.9	11904.3	11888.8	11869.5	11807.5	11706.9	11606.3	11482.5
20°	11962.3	11908.2	11869.5	11900.4	11923.6	11919.8	11904.3	11865.6	11819.2	11734.0	11625.7
17.5°	11919.8	11884.9	11838.5	11884.9	11935.3	11939.1	11923.6	11900.4	11888.8	11834.6	11737.9
15°	11815.3	11788.2	11795.9	11842.4	11900.4	11919.8	11931.4	11958.5	11943.0	11900.4	11815.3
12.5°	11745.6	11710.8	11745.6	11792.1	11823.0	11834.6	11927.5	11977.8	11977.8	11939.1	11884.9
10°	11726.3	11656.6	11703.1	11745.6	11761.1	11830.8	11908.2	11962.3	11989.4	11958.5	11888.8
7.5°	11687.6	11641.1	11660.5	11679.8	11768.8	11819.2	11861.7	11919.8	11958.5	11954.6	11892.7
5°	11668.2	11610.2	11617.9	11699.2	11761.1	11795.9	11811.4	11861.7	11919.8	11931.4	11884.9
2.5°	11617.9	11590.8	11648.9	11656.6	11703.1	11730.1	11745.6	11792.1	11865.6	11892.7	11873.3
0°	11590.8	11552.1	11513.4	11544.4	11621.8	11679.8	11703.1	11772.7	11857.9	11884.9	11842.4



REPORT NUMBER: P628435
 CATALOG NUMBER: IFLD-L-SA7E-927-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°	108.4	104.5	100.6	96.8	100.6	100.6	100.6	96.8	100.6	96.8	96.8
85°	336.7	321.2	309.6	294.1	278.6	267.0	251.6	236.1	232.2	228.3	220.6
82.5°	580.5	561.2	541.8	518.6	495.4	468.3	441.2	410.2	402.5	394.7	383.1
80°	816.6	789.5	762.4	735.3	712.1	685.0	654.0	619.2	596.0	576.6	553.4
77.5°	1064.3	1025.6	986.9	940.4	913.3	886.2	855.3	820.5	785.6	754.7	719.8
75°	1346.8	1304.2	1265.5	1219.1	1168.8	1118.4	1068.1	1021.7	971.4	924.9	878.5
72.5°	1660.3	1598.3	1536.4	1478.4	1416.4	1354.5	1288.7	1226.8	1164.9	1103.0	1037.2
70°	1989.2	1911.8	1834.4	1757.0	1675.7	1594.5	1517.1	1439.7	1362.3	1281.0	1207.5
67.5°	2376.2	2287.2	2186.6	2078.2	1958.2	1853.8	1753.1	1660.3	1567.4	1474.5	1381.6
65°	2860.0	2736.1	2600.7	2453.6	2314.3	2175.0	2027.9	1888.6	1780.2	1671.9	1567.4
62.5°	3456.0	3281.8	3092.2	2902.5	2732.3	2550.4	2380.1	2198.2	2027.9	1873.1	1745.4
60°	4168.1	3932.0	3699.8	3456.0	3219.9	2972.2	2755.5	2531.0	2318.2	2128.5	1942.8
57.5°	4953.7	4678.9	4400.3	4102.3	3781.0	3490.8	3196.7	2902.5	2651.0	2399.4	2190.5
55°	5750.9	5460.7	5147.2	4810.5	4458.3	4086.8	3688.2	3359.2	3014.8	2720.7	2449.7
52.5°	6509.4	6207.6	5882.5	5572.9	5151.0	4725.3	4288.0	3854.6	3452.1	3076.7	2747.7
50°	7186.7	6892.6	6579.1	6219.2	5828.3	5375.5	4887.9	4400.3	3924.2	3483.1	3072.8
47.5°	7805.9	7519.5	7206.0	6846.1	6490.1	5987.0	5495.5	4957.5	4427.3	3920.4	3440.5
45°	8386.4	8096.2	7771.1	7426.6	7016.4	6567.5	6060.5	5518.7	4949.8	4380.9	3827.5
42.5°	8912.7	8622.5	8293.5	7937.5	7531.1	7086.1	6594.6	6048.9	5476.1	4856.9	4249.3
40°	9373.3	9090.8	8773.4	8401.9	8022.6	7554.4	7070.6	6552.0	5959.9	5336.8	4667.3
37.5°	9775.8	9512.6	9199.1	8831.5	8429.0	8011.0	7511.8	6993.2	6459.1	5781.9	5096.9
35°	10131.8	9888.0	9566.8	9218.5	8823.7	8382.5	7914.3	7407.3	6830.7	6196.0	5530.3
32.5°	10441.4	10193.7	9899.6	9551.3	9168.2	8754.1	8274.2	7763.3	7217.7	6571.4	5847.7
30°	10704.6	10464.6	10186.0	9857.0	9489.4	9079.2	8610.9	8096.2	7538.9	6896.4	6180.5
27.5°	10932.9	10704.6	10433.7	10127.9	9775.8	9381.0	8908.9	8390.3	7821.4	7202.2	6486.2
25°	11130.3	10909.7	10658.1	10367.9	10019.6	9632.6	9187.5	8645.7	8076.8	7453.7	6745.5
22.5°	11308.3	11095.5	10843.9	10561.4	10244.0	9857.0	9408.1	8870.2	8293.5	7678.2	6981.6
20°	11467.0	11269.6	11021.9	10731.7	10414.3	10023.4	9578.4	9067.5	8487.0	7883.3	7194.4
17.5°	11594.7	11420.5	11172.9	10867.1	10549.8	10170.5	9737.1	9268.8	8653.4	8057.5	7372.5
15°	11683.7	11513.4	11289.0	10979.4	10669.7	10294.4	9860.9	9377.1	8804.4	8196.8	7519.5
12.5°	11745.6	11563.7	11354.7	11068.4	10758.8	10387.2	9965.4	9489.4	8932.1	8320.6	7647.2
10°	11761.1	11594.7	11385.7	11130.3	10828.4	10468.5	10054.4	9582.3	9036.6	8417.4	7751.7
7.5°	11768.8	11610.2	11420.5	11176.7	10878.7	10530.4	10120.2	9655.8	9114.0	8498.6	7829.1
5°	11765.0	11614.0	11443.8	11207.7	10909.7	10565.3	10162.8	9706.1	9168.2	8552.8	7887.2
2.5°	11753.4	11617.9	11459.2	11230.9	10944.5	10604.0	10205.3	9764.2	9226.2	8599.3	7933.6
0°	11784.3	11668.2	11467.0	11223.2	10952.3	10604.0	10201.5	9771.9	9234.0	8595.4	7929.7



REPORT NUMBER: P628435
 CATALOG NUMBER: IFLD-L-SA7E-927-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°	96.8	92.9	92.9	89.0	85.1	81.3	73.5	69.7	61.9	50.3	38.7
85°	209.0	197.4	185.8	178.0	170.3	162.5	150.9	139.3	123.8	100.6	77.4
82.5°	367.7	344.4	321.2	294.1	270.9	247.7	228.3	209.0	185.8	150.9	116.1
80°	526.3	491.5	456.7	418.0	383.1	344.4	309.6	278.6	247.7	201.2	154.8
77.5°	685.0	638.6	588.2	541.8	491.5	441.2	390.9	348.3	301.9	247.7	193.5
75°	832.1	777.9	731.4	665.6	603.7	537.9	472.1	414.1	356.0	290.3	232.2
72.5°	979.1	909.5	843.7	781.8	712.1	630.8	557.3	483.8	410.2	332.8	263.2
70°	1126.2	1041.0	959.8	886.2	808.8	727.6	638.6	553.4	464.4	371.5	290.3
67.5°	1277.1	1180.4	1087.5	994.6	905.6	812.7	719.8	623.1	518.6	410.2	321.2
65°	1443.5	1323.6	1211.3	1106.8	1002.3	901.7	797.2	692.7	576.6	452.8	348.3
62.5°	1609.9	1478.4	1346.8	1215.2	1099.1	986.9	874.6	758.5	630.8	499.2	375.4
60°	1788.0	1637.0	1486.1	1339.0	1195.8	1072.0	948.2	824.3	688.9	541.8	402.5
57.5°	1985.3	1803.4	1633.2	1466.8	1304.2	1157.1	1021.7	890.1	739.2	584.4	433.4
55°	2209.8	1985.3	1784.1	1598.3	1420.3	1242.3	1095.2	959.8	797.2	626.9	468.3
52.5°	2445.9	2186.6	1942.8	1733.8	1544.2	1342.9	1164.9	1014.0	855.3	669.5	499.2
50°	2720.7	2391.7	2120.8	1865.4	1652.5	1443.5	1238.4	1075.9	913.3	719.8	530.2
47.5°	3003.2	2639.4	2298.8	2020.2	1768.6	1540.3	1323.6	1130.1	967.5	766.3	561.2
45°	3332.1	2875.5	2500.1	2171.1	1880.8	1640.9	1408.7	1188.1	1014.0	812.7	592.1
42.5°	3649.5	3154.1	2709.0	2337.5	2008.6	1737.7	1486.1	1250.0	1060.4	859.2	619.2
40°	4024.9	3432.7	2910.3	2496.2	2136.3	1830.5	1563.5	1315.8	1103.0	901.7	646.3
37.5°	4384.8	3715.3	3154.1	2670.3	2260.1	1923.4	1640.9	1377.7	1141.7	944.3	681.1
35°	4740.8	4028.7	3386.3	2832.9	2387.8	2027.9	1718.3	1435.8	1180.4	979.1	712.1
32.5°	5081.4	4322.9	3622.4	3014.8	2527.1	2124.7	1788.0	1490.0	1219.1	1010.1	743.1
30°	5398.7	4601.5	3854.6	3200.5	2654.9	2213.7	1853.8	1544.2	1265.5	1037.2	774.0
27.5°	5689.0	4872.4	4086.8	3374.7	2774.8	2294.9	1923.4	1594.5	1304.2	1064.3	801.1
25°	5952.1	5116.2	4299.6	3533.4	2883.2	2384.0	1989.2	1644.8	1339.0	1087.5	824.3
22.5°	6199.8	5340.7	4493.1	3692.0	3014.8	2473.0	2051.1	1691.2	1373.9	1110.7	847.5
20°	6416.6	5545.8	4678.9	3850.7	3130.9	2554.2	2105.3	1733.8	1404.8	1126.2	870.8
17.5°	6590.7	5727.7	4845.3	3990.0	3231.5	2623.9	2151.8	1772.5	1431.9	1145.5	886.2
15°	6745.5	5882.5	4984.6	4110.0	3320.5	2681.9	2194.3	1803.4	1455.1	1157.1	905.6
12.5°	6877.1	6014.1	5104.6	4214.5	3397.9	2732.3	2229.2	1826.7	1474.5	1168.8	917.2
10°	6985.5	6118.6	5205.2	4295.8	3459.8	2771.0	2256.2	1849.9	1490.0	1180.4	928.8
7.5°	7066.7	6196.0	5278.8	4365.4	3510.1	2798.1	2279.5	1865.4	1505.5	1188.1	948.2
5°	7128.6	6261.8	5336.8	4411.9	3548.8	2836.8	2306.6	1884.7	1520.9	1195.8	948.2
2.5°	7175.1	6315.9	5383.2	4450.6	3579.8	2829.0	2306.6	1880.8	1520.9	1195.8	944.3
0°	7167.3	6319.8	5379.4	4450.6	3579.8	2821.3	2306.6	1877.0	1520.9	1195.8	944.3



REPORT NUMBER: P628435
 CATALOG NUMBER: IFLD-L-SA7E-927-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.1	19.4	7.7	0.0
85°	58.1	38.7	19.4	0.0
82.5°	85.1	54.2	27.1	0.0
80°	112.2	73.5	34.8	0.0
77.5°	143.2	92.9	46.4	0.0
75°	170.3	108.4	54.2	0.0
72.5°	197.4	127.7	61.9	0.0
70°	220.6	143.2	69.7	0.0
67.5°	243.8	162.5	81.3	0.0
65°	263.2	178.0	89.0	0.0
62.5°	278.6	197.4	96.8	0.0
60°	298.0	212.9	104.5	0.0
57.5°	313.5	224.5	112.2	0.0
55°	329.0	232.2	120.0	0.0
52.5°	344.4	243.8	127.7	0.0
50°	359.9	255.4	135.5	0.0
47.5°	375.4	263.2	139.3	0.0
45°	398.6	274.8	147.1	0.0
42.5°	418.0	282.5	154.8	0.0
40°	437.3	290.3	158.7	0.0
37.5°	456.7	298.0	166.4	0.0
35°	476.0	305.7	170.3	0.0
32.5°	491.5	313.5	174.2	0.0
30°	507.0	321.2	178.0	0.0
27.5°	522.5	325.1	181.9	0.0
25°	534.1	332.8	185.8	0.0
22.5°	545.7	336.7	189.6	0.0
20°	553.4	340.6	193.5	0.0
17.5°	565.0	344.4	197.4	0.0
15°	568.9	348.3	205.1	0.0
12.5°	576.6	352.2	205.1	0.0
10°	580.5	356.0	205.1	0.0
7.5°	588.2	356.0	205.1	0.0
5°	584.4	356.0	205.1	0.0
2.5°	584.4	356.0	205.1	0.0
0°	580.5	356.0	205.1	0.0

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