

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: P628508

Luminaire Tested: **IFLD-S-SA6A-940-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-940-U-LAM
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens
Light Source: (96) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	20071.8 lumens	Max Intensity:	6542.6 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	105.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

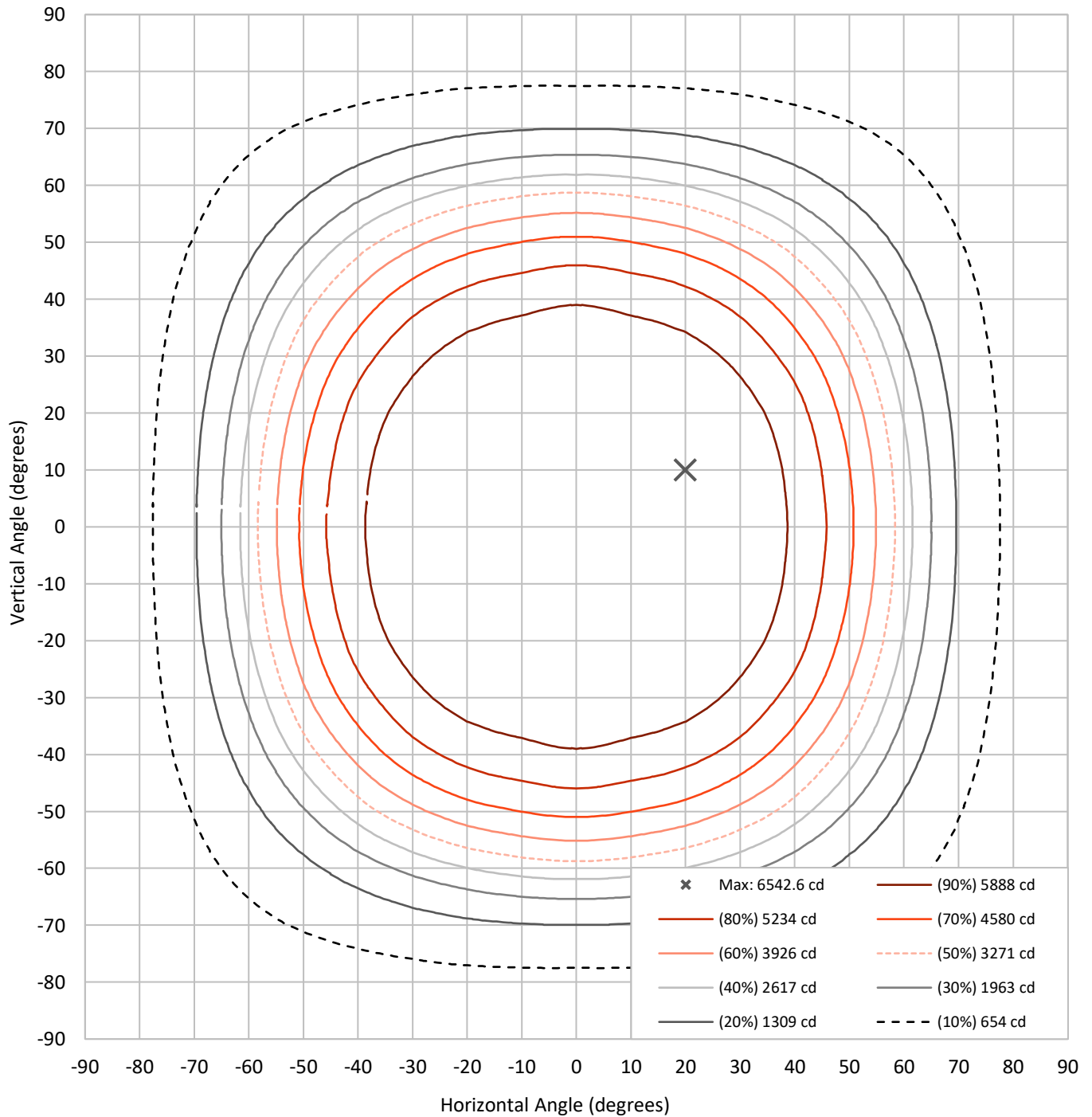
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	12316.5 lumens	Field Lumens:	14765.4 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 189.6
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: P628508
CATALOG NUMBER: IFLD-S-SA6A-940-U-LAM

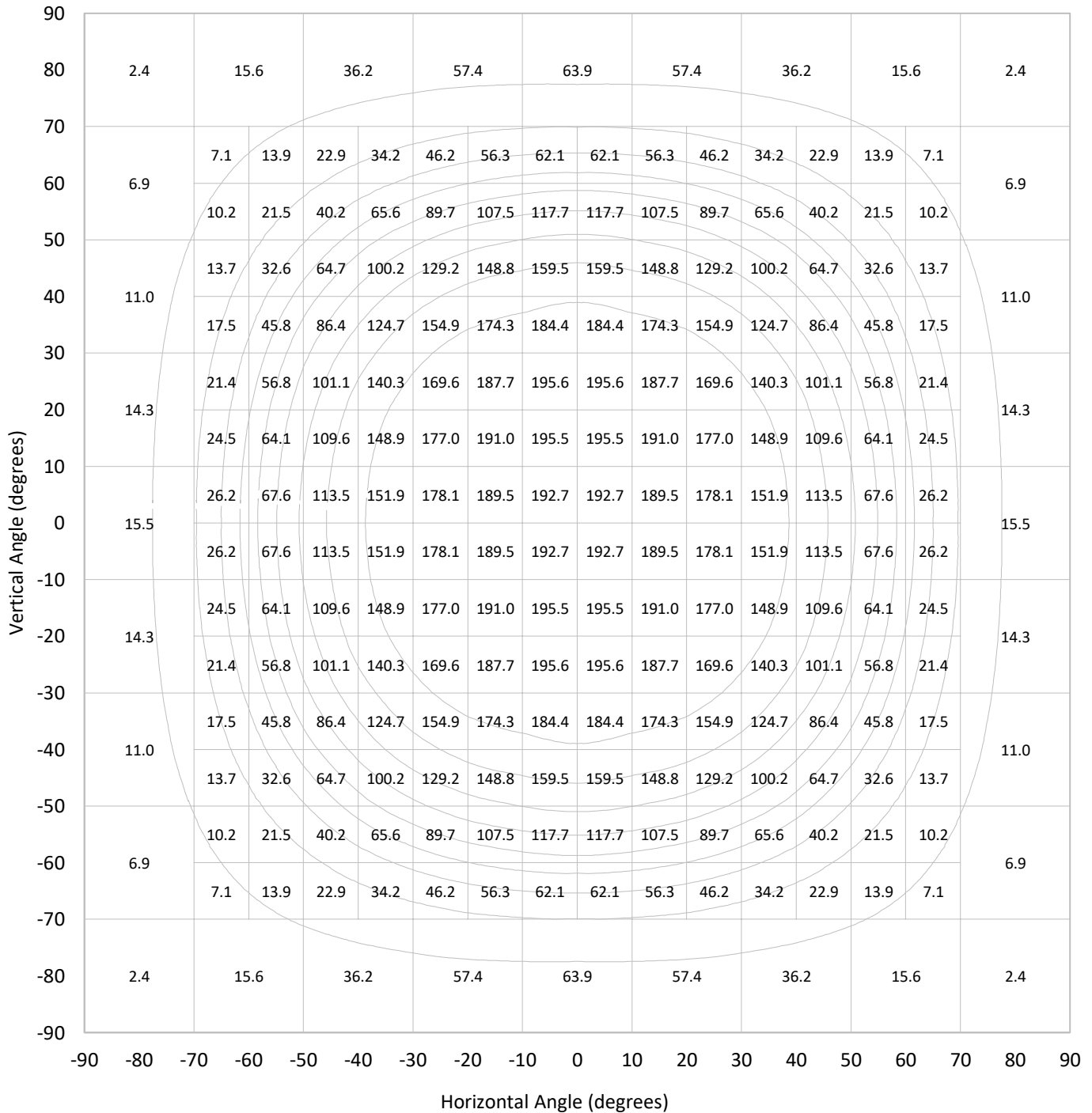
Iso-Candela Plot





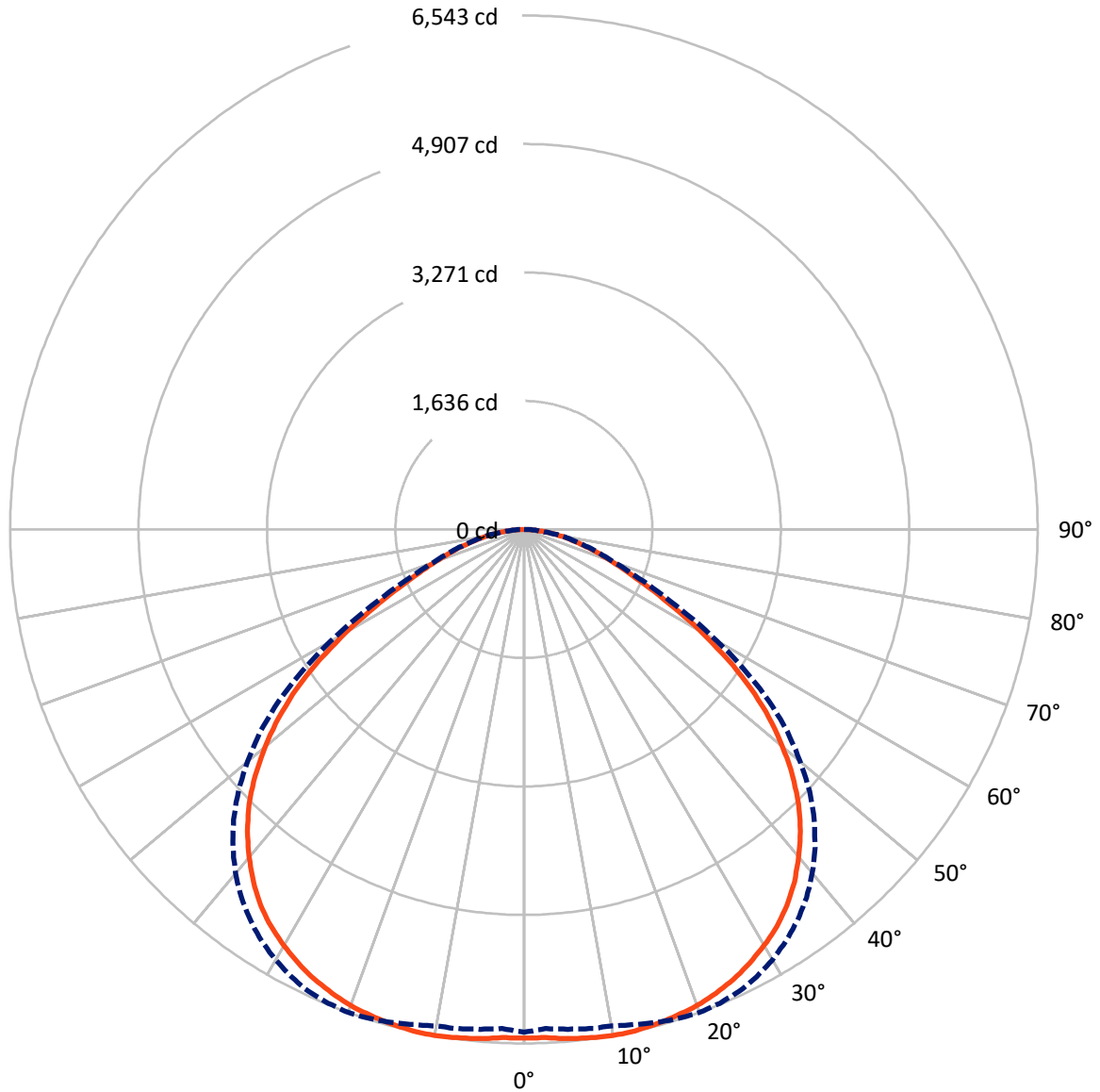
REPORT NUMBER: P628508
 CATALOG NUMBER: IFLD-S-SA6A-940-U-LAM

Lumen Table



REPORT NUMBER: P628508
CATALOG NUMBER: IFLD-S-SA6A-940-U-LAM

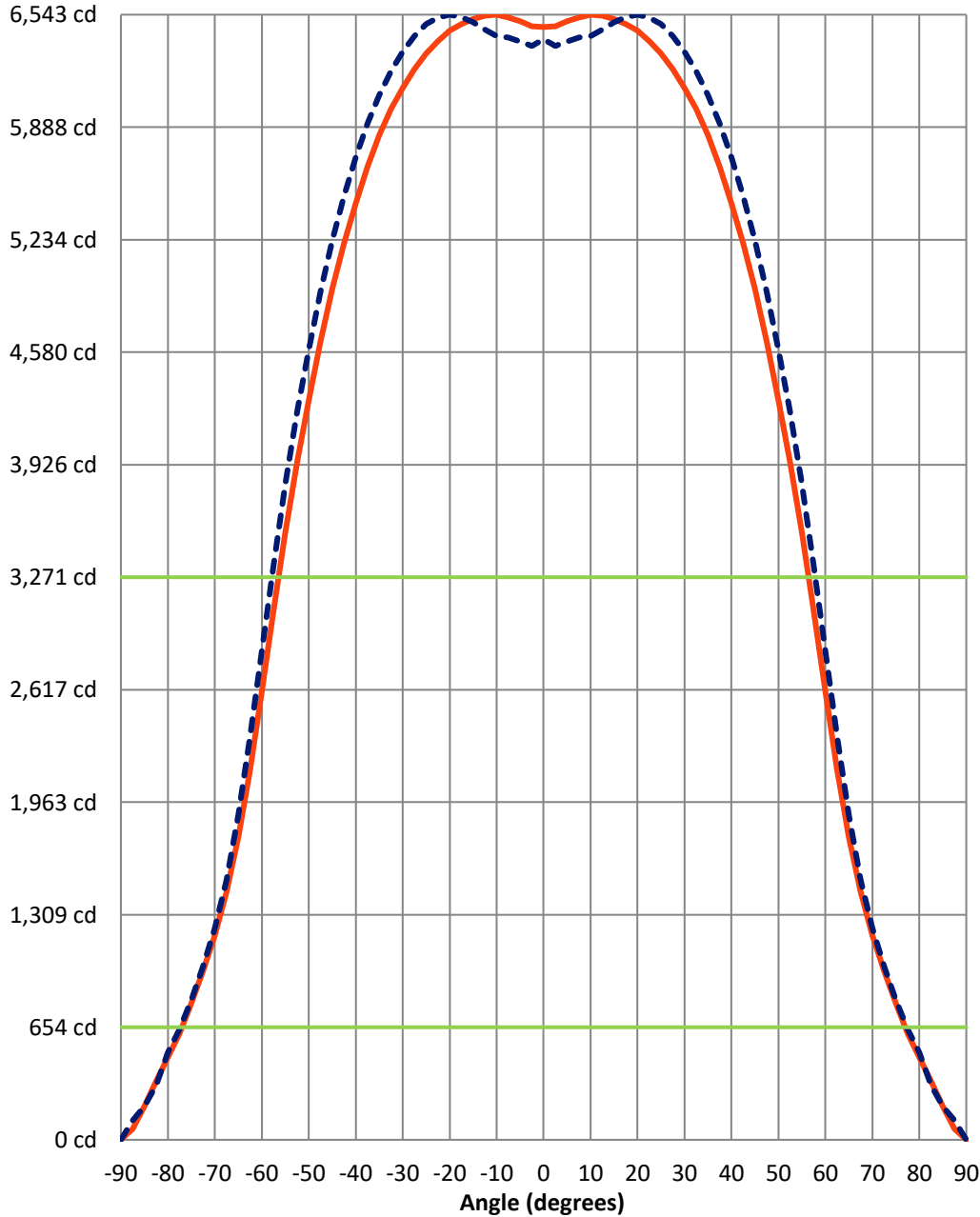
Luminous Intensity Polar Plot



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

REPORT NUMBER: P628508
 CATALOG NUMBER: IFLD-S-SA6A-940-U-LAM

Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 12316.5
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 14765.4
 Efficiency: 73.6%

Spill:
 Lumens: 5306.5
 Efficiency: 26.4%

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



REPORT NUMBER: P628508
 CATALOG NUMBER: IFLD-S-SA6A-940-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°	52.8	57.0	59.1	61.2	63.4	65.5	67.6	65.5	63.4	63.4	61.2
85°	141.5	145.7	147.8	162.6	177.4	185.8	196.4	194.3	194.3	192.2	190.1
82.5°	283.0	295.7	306.2	321.0	329.5	342.1	350.6	344.2	340.0	331.6	325.2
80°	502.6	506.9	509.0	511.1	500.5	498.4	494.2	487.8	479.4	468.8	458.3
77.5°	639.9	644.1	648.3	644.1	642.0	639.9	633.6	627.2	618.8	610.3	597.7
75°	846.9	846.9	846.9	840.5	836.3	830.0	819.4	808.9	794.1	777.2	758.2
72.5°	1066.5	1064.4	1062.3	1049.6	1039.0	1026.4	1011.6	998.9	982.0	963.0	937.7
70°	1296.7	1300.9	1303.0	1286.1	1273.5	1256.6	1237.6	1214.3	1189.0	1161.5	1125.6
67.5°	1613.5	1609.3	1605.0	1581.8	1564.9	1541.7	1514.2	1480.4	1442.4	1400.2	1349.5
65°	2006.3	2012.6	2000.0	1976.7	1945.0	1907.0	1864.8	1816.2	1759.2	1695.8	1624.0
62.5°	2481.5	2492.0	2477.2	2447.7	2407.5	2356.9	2297.7	2228.0	2149.9	2061.2	1972.5
60°	3022.1	3020.0	2992.5	2952.4	2899.6	2836.3	2770.8	2694.8	2606.1	2502.6	2394.9
57.5°	3518.4	3514.2	3480.4	3440.3	3387.5	3319.9	3250.2	3169.9	3077.0	2967.2	2842.6
55°	3964.0	3959.8	3926.0	3883.8	3828.8	3761.3	3697.9	3621.9	3531.1	3414.9	3281.9
52.5°	4358.9	4361.0	4331.5	4285.0	4225.9	4160.4	4099.2	4023.1	3936.6	3820.4	3691.6
50°	4722.2	4720.1	4688.4	4646.1	4591.2	4527.9	4466.6	4390.6	4299.8	4187.9	4063.3
47.5°	5060.1	5055.8	5019.9	4973.5	4916.5	4861.6	4804.5	4737.0	4641.9	4530.0	4405.4
45°	5343.1	5334.6	5298.7	5254.4	5199.5	5150.9	5100.2	5049.5	4948.1	4844.7	4726.4
42.5°	5585.9	5583.8	5547.9	5503.6	5448.7	5406.4	5360.0	5296.6	5212.1	5117.1	5000.9
40°	5818.2	5801.3	5765.4	5723.2	5672.5	5636.6	5590.2	5526.8	5444.4	5351.5	5239.6
37.5°	5991.4	5993.5	5955.5	5909.1	5864.7	5830.9	5788.7	5729.5	5657.7	5566.9	5455.0
35°	6156.1	6145.6	6113.9	6073.8	6033.7	5995.6	5951.3	5900.6	5841.5	5757.0	5651.4
32.5°	6263.8	6278.6	6240.6	6198.4	6175.1	6145.6	6099.1	6046.3	5993.5	5909.1	5814.0
30°	6382.1	6369.4	6339.9	6304.0	6287.1	6268.1	6227.9	6177.3	6116.0	6040.0	5951.3
27.5°	6464.5	6458.1	6422.2	6388.4	6380.0	6363.1	6331.4	6287.1	6225.8	6151.9	6069.6
25°	6500.4	6504.6	6470.8	6451.8	6451.8	6441.2	6415.9	6377.9	6316.6	6249.1	6168.8
22.5°	6517.3	6513.0	6489.8	6485.6	6496.2	6487.7	6477.1	6443.4	6388.4	6333.5	6266.0
20°	6527.8	6498.3	6477.1	6494.0	6506.7	6504.6	6496.2	6475.0	6449.7	6403.2	6344.1
17.5°	6504.6	6485.6	6460.3	6485.6	6513.0	6515.2	6506.7	6494.0	6487.7	6458.1	6405.3
15°	6447.6	6432.8	6437.0	6462.4	6494.0	6504.6	6510.9	6525.7	6517.3	6494.0	6447.6
12.5°	6409.6	6390.6	6409.6	6434.9	6451.8	6458.1	6508.8	6536.3	6536.3	6515.2	6485.6
10°	6399.0	6361.0	6386.3	6409.6	6418.0	6456.0	6498.3	6527.8	6542.6	6525.7	6487.7
7.5°	6377.9	6352.5	6363.1	6373.7	6422.2	6449.7	6472.9	6504.6	6525.7	6523.6	6489.8
5°	6367.3	6335.7	6339.9	6384.2	6418.0	6437.0	6445.5	6472.9	6504.6	6510.9	6485.6
2.5°	6339.9	6325.1	6356.8	6361.0	6386.3	6401.1	6409.6	6434.9	6475.0	6489.8	6479.3
0°	6325.1	6304.0	6282.9	6299.7	6342.0	6373.7	6386.3	6424.3	6470.8	6485.6	6462.4



REPORT NUMBER: P628508
 CATALOG NUMBER: IFLD-S-SA6A-940-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°	59.1	57.0	54.9	52.8	54.9	54.9	54.9	52.8	54.9	52.8	52.8
85°	183.7	175.3	169.0	160.5	152.1	145.7	137.3	128.8	126.7	124.6	120.4
82.5°	316.8	306.2	295.7	283.0	270.3	255.5	240.8	223.9	219.6	215.4	209.1
80°	445.6	430.8	416.0	401.3	388.6	373.8	356.9	337.9	325.2	314.7	302.0
77.5°	580.8	559.6	538.5	513.2	498.4	483.6	466.7	447.7	428.7	411.8	392.8
75°	734.9	711.7	690.6	665.2	637.8	610.3	582.9	557.5	530.1	504.7	479.4
72.5°	906.0	872.2	838.4	806.7	772.9	739.2	703.3	669.5	635.7	601.9	566.0
70°	1085.5	1043.3	1001.0	958.8	914.4	870.1	827.9	785.6	743.4	699.0	658.9
67.5°	1296.7	1248.1	1193.2	1134.1	1068.6	1011.6	956.7	906.0	855.3	804.6	753.9
65°	1560.7	1493.1	1419.2	1338.9	1262.9	1186.9	1106.6	1030.6	971.5	912.3	855.3
62.5°	1885.9	1790.9	1687.4	1583.9	1491.0	1391.7	1298.8	1199.5	1106.6	1022.2	952.5
60°	2274.5	2145.7	2019.0	1885.9	1757.1	1621.9	1503.7	1381.2	1265.0	1161.5	1060.2
57.5°	2703.2	2553.3	2401.2	2238.6	2063.3	1904.9	1744.4	1583.9	1446.6	1309.4	1195.3
55°	3138.3	2979.9	2808.8	2625.1	2432.9	2230.1	2012.6	1833.1	1645.2	1484.7	1336.8
52.5°	3552.2	3387.5	3210.1	3041.1	2810.9	2578.6	2340.0	2103.4	1883.8	1678.9	1499.4
50°	3921.8	3761.3	3590.2	3393.8	3180.5	2933.4	2667.3	2401.2	2141.4	1900.7	1676.8
47.5°	4259.7	4103.4	3932.3	3735.9	3541.6	3267.1	2998.9	2705.3	2416.0	2139.3	1877.5
45°	4576.5	4418.1	4240.7	4052.7	3828.8	3583.9	3307.2	3011.5	2701.1	2390.7	2088.7
42.5°	4863.7	4705.3	4525.8	4331.5	4109.7	3866.9	3598.6	3300.9	2988.3	2650.4	2318.8
40°	5115.0	4960.8	4787.6	4584.9	4377.9	4122.4	3858.4	3575.4	3252.3	2912.3	2546.9
37.5°	5334.6	5191.0	5019.9	4819.3	4599.7	4371.6	4099.2	3816.2	3524.7	3155.2	2781.4
35°	5528.9	5395.9	5220.6	5030.5	4815.1	4574.3	4318.8	4042.1	3727.5	3381.1	3017.9
32.5°	5697.9	5562.7	5402.2	5212.1	5003.1	4777.1	4515.2	4236.4	3938.7	3586.0	3191.1
30°	5841.5	5710.5	5558.5	5379.0	5178.3	4954.5	4698.9	4418.1	4113.9	3763.4	3372.7
27.5°	5966.1	5841.5	5693.6	5526.8	5334.6	5119.2	4861.6	4578.6	4268.1	3930.2	3539.5
25°	6073.8	5953.4	5816.1	5657.7	5467.7	5256.5	5013.6	4717.9	4407.5	4067.5	3681.0
22.5°	6170.9	6054.8	5917.5	5763.3	5590.2	5379.0	5134.0	4840.4	4525.8	4190.0	3809.8
20°	6257.5	6149.8	6014.6	5856.3	5683.1	5469.8	5226.9	4948.1	4631.4	4301.9	3926.0
17.5°	6327.2	6232.2	6097.0	5930.2	5757.0	5550.0	5313.5	5058.0	4722.2	4396.9	4023.1
15°	6375.8	6282.9	6160.4	5991.4	5822.5	5617.6	5381.1	5117.1	4804.5	4473.0	4103.4
12.5°	6409.6	6310.3	6196.3	6040.0	5871.0	5668.3	5438.1	5178.3	4874.2	4540.5	4173.1
10°	6418.0	6327.2	6213.2	6073.8	5909.1	5712.6	5486.7	5229.0	4931.2	4593.3	4230.1
7.5°	6422.2	6335.7	6232.2	6099.1	5936.5	5746.4	5522.6	5269.1	4973.5	4637.7	4272.3
5°	6420.1	6337.8	6244.8	6116.0	5953.4	5765.4	5545.8	5296.6	5003.1	4667.3	4304.0
2.5°	6413.8	6339.9	6253.3	6128.7	5972.4	5786.6	5569.0	5328.3	5034.7	4692.6	4329.4
0°	6430.7	6367.3	6257.5	6124.5	5976.6	5786.6	5566.9	5332.5	5039.0	4690.5	4327.2



REPORT NUMBER: P628508
 CATALOG NUMBER: IFLD-S-SA6A-940-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°	52.8	50.7	50.7	48.6	46.5	44.3	40.1	38.0	33.8	27.5	21.1
85°	114.0	107.7	101.4	97.1	92.9	88.7	82.4	76.0	67.6	54.9	42.2
82.5°	200.6	188.0	175.3	160.5	147.8	135.2	124.6	114.0	101.4	82.4	63.4
80°	287.2	268.2	249.2	228.1	209.1	188.0	169.0	152.1	135.2	109.8	84.5
77.5°	373.8	348.5	321.0	295.7	268.2	240.8	213.3	190.1	164.7	135.2	105.6
75°	454.1	424.5	399.1	363.2	329.5	293.6	257.6	226.0	194.3	158.4	126.7
72.5°	534.3	496.3	460.4	426.6	388.6	344.2	304.1	264.0	223.9	181.6	143.6
70°	614.6	568.1	523.7	483.6	441.4	397.0	348.5	302.0	253.4	202.7	158.4
67.5°	696.9	644.1	593.4	542.8	494.2	443.5	392.8	340.0	283.0	223.9	175.3
65°	787.7	722.3	661.0	604.0	547.0	492.1	435.0	378.0	314.7	247.1	190.1
62.5°	878.5	806.7	734.9	663.1	599.8	538.5	477.3	413.9	344.2	272.4	204.9
60°	975.7	893.3	811.0	730.7	652.6	585.0	517.4	449.8	375.9	295.7	219.6
57.5°	1083.4	984.1	891.2	800.4	711.7	631.5	557.5	485.7	403.4	318.9	236.5
55°	1205.9	1083.4	973.6	872.2	775.1	677.9	597.7	523.7	435.0	342.1	255.5
52.5°	1334.7	1193.2	1060.2	946.1	842.6	732.8	635.7	553.3	466.7	365.4	272.4
50°	1484.7	1305.1	1157.3	1017.9	901.8	787.7	675.8	587.1	498.4	392.8	289.3
47.5°	1638.8	1440.3	1254.5	1102.4	965.1	840.5	722.3	616.7	528.0	418.2	306.2
45°	1818.3	1569.1	1364.3	1184.8	1026.4	895.4	768.7	648.3	553.3	443.5	323.1
42.5°	1991.5	1721.2	1478.3	1275.6	1096.1	948.2	811.0	682.1	578.7	468.8	337.9
40°	2196.4	1873.2	1588.1	1362.2	1165.8	998.9	853.2	718.0	601.9	492.1	352.7
37.5°	2392.8	2027.4	1721.2	1457.2	1233.3	1049.6	895.4	751.8	623.0	515.3	371.7
35°	2587.1	2198.5	1847.9	1545.9	1303.0	1106.6	937.7	783.5	644.1	534.3	388.6
32.5°	2772.9	2359.0	1976.7	1645.2	1379.1	1159.4	975.7	813.1	665.2	551.2	405.5
30°	2946.1	2511.0	2103.4	1746.5	1448.8	1208.0	1011.6	842.6	690.6	566.0	422.4
27.5°	3104.5	2658.9	2230.1	1841.6	1514.2	1252.3	1049.6	870.1	711.7	580.8	437.2
25°	3248.1	2791.9	2346.3	1928.1	1573.4	1300.9	1085.5	897.6	730.7	593.4	449.8
22.5°	3383.2	2914.4	2451.9	2014.7	1645.2	1349.5	1119.3	922.9	749.7	606.1	462.5
20°	3501.5	3026.3	2553.3	2101.3	1708.5	1393.8	1148.9	946.1	766.6	614.6	475.2
17.5°	3596.5	3125.6	2644.1	2177.4	1763.4	1431.9	1174.2	967.2	781.4	625.1	483.6
15°	3681.0	3210.1	2720.1	2242.8	1812.0	1463.5	1197.4	984.1	794.1	631.5	494.2
12.5°	3752.8	3281.9	2785.6	2299.8	1854.2	1491.0	1216.4	996.8	804.6	637.8	500.5
10°	3811.9	3338.9	2840.5	2344.2	1888.0	1512.1	1231.2	1009.5	813.1	644.1	506.9
7.5°	3856.3	3381.1	2880.6	2382.2	1915.5	1526.9	1243.9	1017.9	821.5	648.3	517.4
5°	3890.1	3417.0	2912.3	2407.5	1936.6	1548.0	1258.7	1028.5	830.0	652.6	517.4
2.5°	3915.4	3446.6	2937.6	2428.7	1953.5	1543.8	1258.7	1026.4	830.0	652.6	515.3
0°	3911.2	3448.7	2935.5	2428.7	1953.5	1539.6	1258.7	1024.3	830.0	652.6	515.3



REPORT NUMBER: P628508
 CATALOG NUMBER: IFLD-S-SA6A-940-U-LAM

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	14.8	10.6	4.2	0.0
85°	31.7	21.1	10.6	0.0
82.5°	46.5	29.6	14.8	0.0
80°	61.2	40.1	19.0	0.0
77.5°	78.1	50.7	25.3	0.0
75°	92.9	59.1	29.6	0.0
72.5°	107.7	69.7	33.8	0.0
70°	120.4	78.1	38.0	0.0
67.5°	133.0	88.7	44.3	0.0
65°	143.6	97.1	48.6	0.0
62.5°	152.1	107.7	52.8	0.0
60°	162.6	116.2	57.0	0.0
57.5°	171.1	122.5	61.2	0.0
55°	179.5	126.7	65.5	0.0
52.5°	188.0	133.0	69.7	0.0
50°	196.4	139.4	73.9	0.0
47.5°	204.9	143.6	76.0	0.0
45°	217.5	149.9	80.3	0.0
42.5°	228.1	154.2	84.5	0.0
40°	238.6	158.4	86.6	0.0
37.5°	249.2	162.6	90.8	0.0
35°	259.8	166.8	92.9	0.0
32.5°	268.2	171.1	95.0	0.0
30°	276.7	175.3	97.1	0.0
27.5°	285.1	177.4	99.3	0.0
25°	291.4	181.6	101.4	0.0
22.5°	297.8	183.7	103.5	0.0
20°	302.0	185.8	105.6	0.0
17.5°	308.3	188.0	107.7	0.0
15°	310.4	190.1	111.9	0.0
12.5°	314.7	192.2	111.9	0.0
10°	316.8	194.3	111.9	0.0
7.5°	321.0	194.3	111.9	0.0
5°	318.9	194.3	111.9	0.0
2.5°	318.9	194.3	111.9	0.0
0°	316.8	194.3	111.9	0.0

(END OF REPORT)