

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: P623678

Luminaire Tested: **IFLD-S-SA6C-740-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623678
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-55
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	43325.1 lumens	Max Intensity:	52945.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	134.8 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

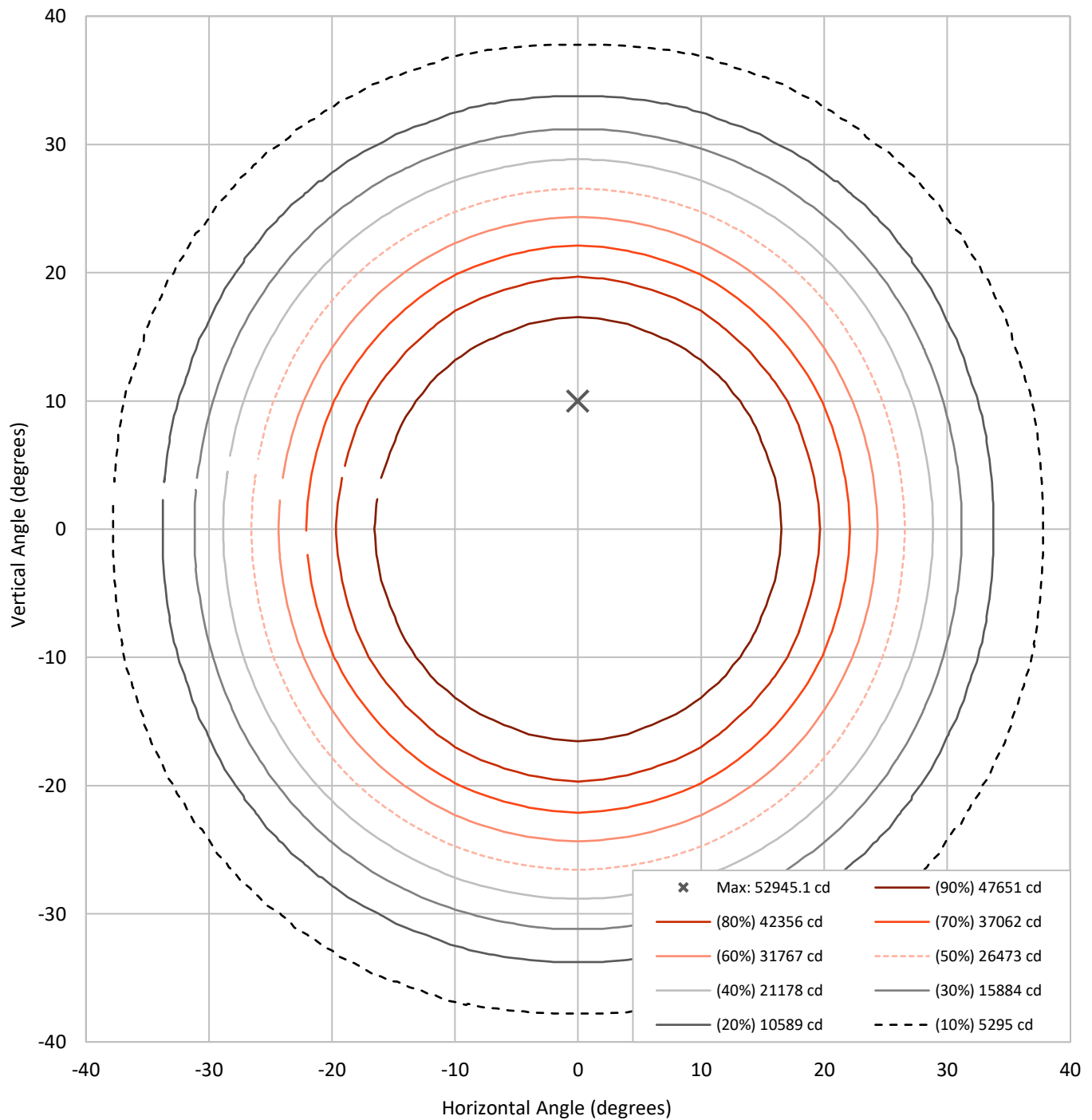
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	21533.7 lumens	Field Lumens:	28005.2 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 321.5
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



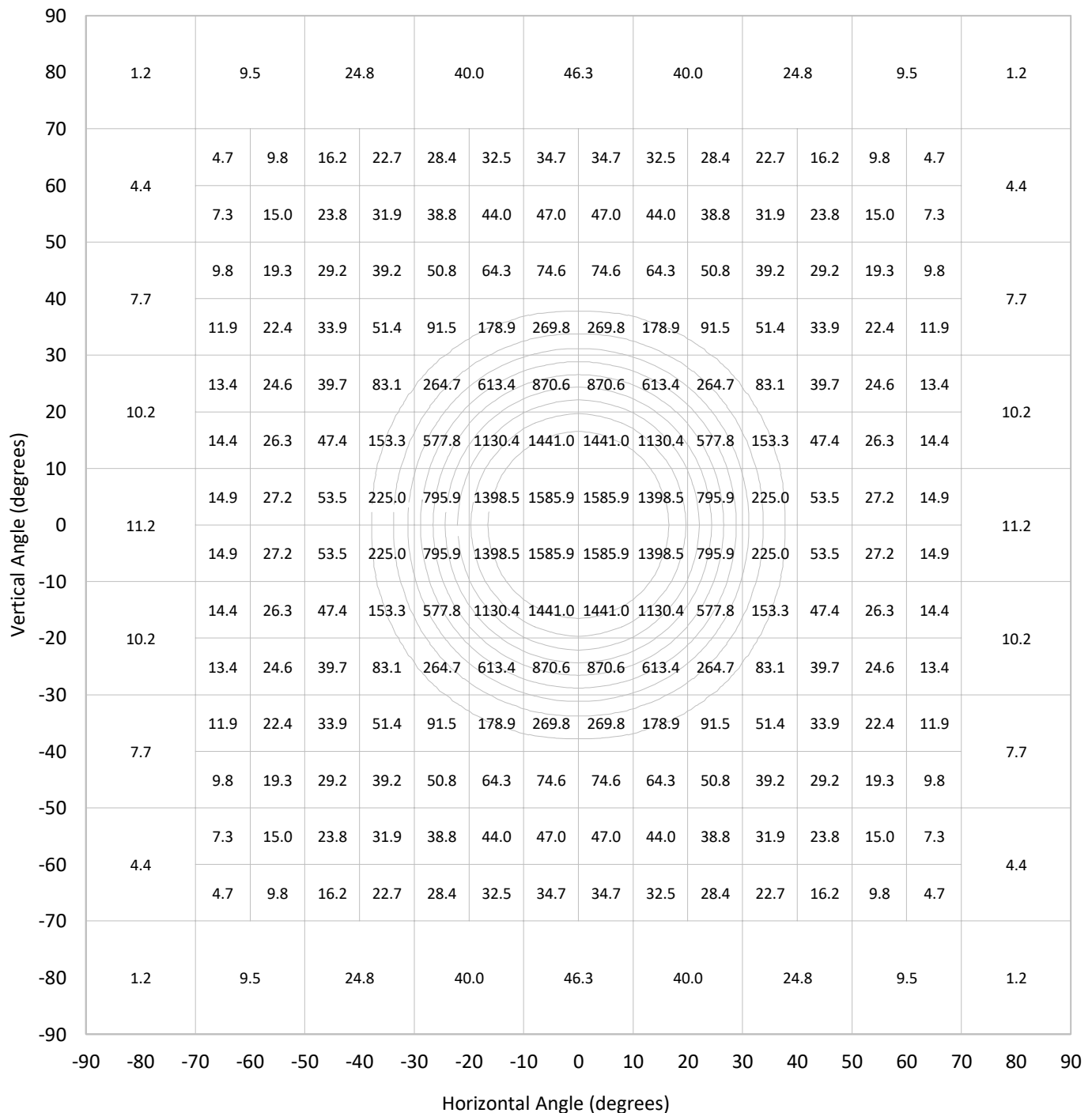
REPORT NUMBER: P623678
CATALOG NUMBER: IFLD-S-SA6C-740-U-55

Iso-Candela Plot



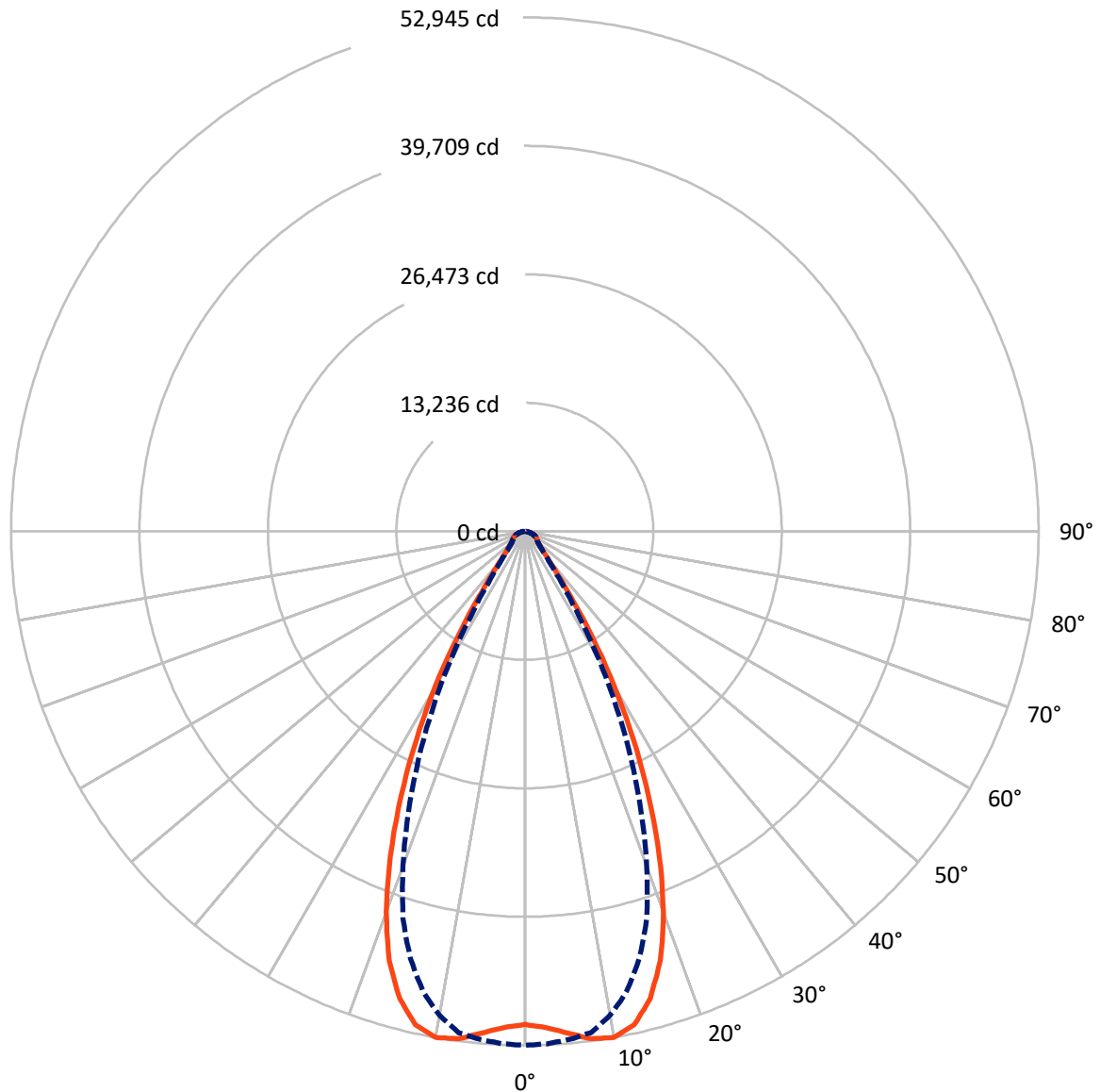
REPORT NUMBER: P623678
CATALOG NUMBER: IFLD-S-SA6C-740-U-55

Lumen Table



REPORT NUMBER: P623678
CATALOG NUMBER: IFLD-S-SA6C-740-U-55

Luminous Intensity Polar Plot

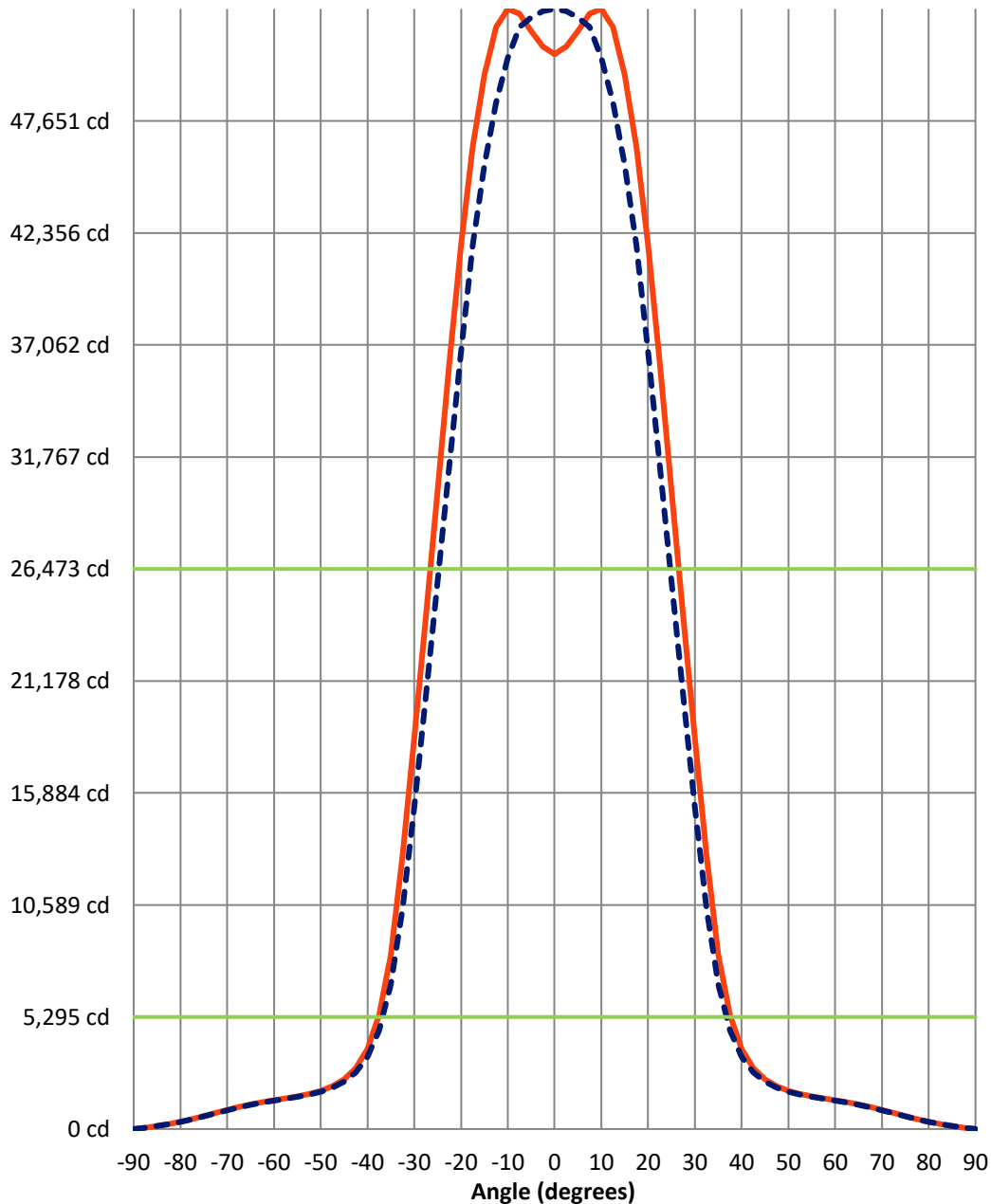


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P623678

CATALOG NUMBER: IFLD-S-SA6C-740-U-55

Luminous Intensity Plot



Beam:

H Angle: 49.5°
V Angle: 53.1°
Lumens: 21533.7
Efficiency: 49.7%

Field:

H Angle: 73.6°
V Angle: 75.3°
Lumens: 28005.2
Efficiency: 64.6%

Spill:

Lumens: 15319.9
Efficiency: 35.4%

— Vertical Distribution through 0-Deg

- - - Horizontal Distribution through 10-Deg

REPORT NUMBER: P623678

CATALOG NUMBER: IFLD-S-SA6C-740-U-55

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°	58.5	58.5	58.5	58.5	58.5	58.5	58.5	54.0	54.0	54.0	54.0
85°	144.0	144.0	144.0	144.0	144.0	139.5	139.5	135.0	135.0	130.5	126.0
82.5°	234.0	234.0	234.0	234.0	229.5	229.5	225.0	220.5	216.0	211.5	207.0
80°	342.0	342.0	342.0	342.0	337.5	333.0	328.5	324.0	315.0	310.5	301.5
77.5°	468.1	468.1	468.1	463.6	459.1	454.6	445.6	436.6	427.6	418.6	409.6
75°	612.1	612.1	612.1	603.1	598.6	589.6	580.6	571.6	558.1	544.6	531.1
72.5°	760.6	760.6	760.6	751.6	742.6	733.6	724.6	711.1	697.6	679.6	661.6
70°	900.1	900.1	900.1	891.1	882.1	873.1	859.6	846.1	828.1	810.1	792.1
67.5°	1044.1	1044.1	1044.1	1030.6	1021.6	1012.6	999.1	981.1	963.1	940.6	918.1
65°	1161.2	1161.2	1156.7	1152.2	1143.2	1129.7	1120.6	1102.6	1084.6	1066.6	1044.1
62.5°	1269.2	1269.2	1264.7	1260.2	1251.2	1237.7	1224.2	1210.7	1192.7	1170.2	1147.7
60°	1359.2	1359.2	1354.7	1350.2	1341.2	1332.2	1318.7	1305.2	1287.2	1269.2	1246.7
57.5°	1449.2	1449.2	1444.7	1440.2	1431.2	1417.7	1404.2	1390.7	1372.7	1350.2	1327.7
55°	1543.7	1543.7	1539.2	1530.2	1521.2	1507.7	1494.2	1476.2	1453.7	1431.2	1408.7
52.5°	1656.2	1656.2	1647.2	1638.2	1624.7	1611.2	1588.7	1566.2	1539.2	1512.2	1485.2
50°	1804.7	1804.7	1795.7	1782.2	1759.7	1737.2	1710.2	1674.2	1642.7	1606.7	1570.7
47.5°	2025.3	2025.3	2007.3	1984.8	1953.3	1917.3	1867.7	1813.7	1768.7	1723.7	1669.7
45°	2349.3	2349.3	2322.3	2286.3	2236.8	2173.8	2101.8	2025.3	1948.8	1872.2	1795.7
42.5°	2875.9	2875.9	2826.4	2763.4	2677.9	2569.8	2434.8	2308.8	2200.8	2079.3	1975.8
40°	3785.0	3785.0	3690.5	3573.5	3411.5	3204.4	2956.9	2758.9	2569.8	2358.3	2214.3
37.5°	5400.7	5400.7	5216.2	4991.2	4676.1	4280.1	3803.0	3483.5	3132.4	2799.4	2556.3
35°	8254.1	8254.1	7898.6	7462.0	6854.4	6089.3	5274.7	4671.6	4001.0	3488.0	3033.4
32.5°	12934.7	12934.7	12295.6	11508.0	10423.4	9050.7	7745.5	6597.9	5400.7	4550.1	3731.0
30°	18497.5	18497.5	17660.4	16629.7	15216.5	13434.3	11575.5	9536.8	7646.5	6129.8	4892.2
27.5°	24249.2	24010.7	23290.6	22116.0	20504.7	18497.5	16179.7	13546.8	10990.5	8317.1	6548.4
25°	30199.0	29920.0	29096.4	27746.2	25901.0	23628.2	21017.8	18074.4	14919.5	11733.1	8672.7
22.5°	36211.8	35896.8	34960.7	33435.0	31364.7	28817.3	25860.5	22588.5	19064.5	15383.1	11733.1
20°	41770.1	41437.0	40455.9	38867.2	36724.9	33930.0	30644.6	27017.1	23119.6	19064.5	14919.5
17.5°	46423.7	46104.2	45159.0	43642.3	41770.1	38678.2	35262.2	31274.7	27017.1	22588.5	18074.4
15°	49821.7	49547.1	48741.5	47467.8	45559.6	42823.2	39344.3	35262.2	30644.6	25860.5	21017.8
12.5°	52076.5	51855.9	51221.3	50231.2	48521.0	46225.7	42823.2	38678.2	33930.0	28817.3	23628.2
10°	52945.1	52837.1	52540.0	52085.5	50627.3	48521.0	45559.6	41770.1	36724.9	31364.7	25901.0
7.5°	52715.5	52751.5	52855.1	52738.0	52085.5	50231.2	47467.8	43642.3	38867.2	33435.0	27746.2
5°	51896.4	52090.0	52571.5	52855.1	52540.0	51221.3	48741.5	45159.0	40455.9	34960.7	29096.4
2.5°	51167.3	51468.9	52090.0	52751.5	52837.1	51855.9	49547.1	46104.2	41437.0	35896.8	29920.0
0°	50807.3	51167.3	51896.4	52715.5	52945.1	52076.5	49821.7	46423.7	41770.1	36211.8	30199.0

REPORT NUMBER: P623678

CATALOG NUMBER: IFLD-S-SA6C-740-U-55

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°	54.0	49.5	49.5	49.5	45.0	45.0	45.0	40.5	40.5	36.0	36.0
85°	126.0	121.5	117.0	112.5	108.0	103.5	99.0	94.5	90.0	81.0	76.5
82.5°	202.5	198.0	193.5	184.5	180.0	171.0	162.0	153.0	144.0	139.5	130.5
80°	292.5	283.5	274.5	265.5	252.0	238.5	229.5	216.0	207.0	193.5	184.5
77.5°	396.1	382.6	369.0	351.0	337.5	324.0	306.0	292.5	274.5	256.5	238.5
75°	513.1	495.1	472.6	454.6	436.6	414.1	391.6	369.0	346.5	324.0	301.5
72.5°	639.1	616.6	594.1	571.6	544.6	513.1	486.1	454.6	427.6	400.6	369.0
70°	769.6	742.6	715.6	688.6	657.1	621.1	589.6	553.6	517.6	481.6	445.6
67.5°	891.1	864.1	832.6	805.6	769.6	733.6	693.1	652.6	612.1	567.1	522.1
65°	1017.1	985.6	949.6	913.6	877.6	837.1	796.6	756.1	706.6	657.1	612.1
62.5°	1120.6	1093.6	1062.1	1026.1	985.6	940.6	900.1	846.1	796.6	747.1	688.6
60°	1219.7	1188.2	1161.2	1120.6	1084.6	1044.1	994.6	940.6	886.6	828.1	774.1
57.5°	1305.2	1278.2	1246.7	1210.7	1170.2	1129.7	1084.6	1035.1	972.1	913.6	850.6
55°	1381.7	1350.2	1318.7	1287.2	1251.2	1206.2	1161.2	1111.6	1057.6	994.6	927.1
52.5°	1458.2	1426.7	1390.7	1359.2	1318.7	1278.2	1233.2	1183.7	1129.7	1071.1	999.1
50°	1534.7	1498.7	1462.7	1422.2	1381.7	1341.2	1296.2	1251.2	1192.7	1134.2	1071.1
47.5°	1624.7	1579.7	1534.7	1489.7	1449.2	1399.7	1354.7	1305.2	1255.7	1192.7	1129.7
45°	1737.2	1669.7	1615.7	1561.7	1512.2	1462.7	1408.7	1359.2	1305.2	1251.2	1183.7
42.5°	1876.8	1786.7	1714.7	1642.7	1579.7	1521.2	1467.2	1408.7	1354.7	1296.2	1233.2
40°	2065.8	1944.3	1827.2	1737.2	1656.2	1584.2	1521.2	1462.7	1399.7	1341.2	1278.2
37.5°	2313.3	2142.3	1980.3	1849.7	1746.2	1656.2	1579.7	1512.2	1449.2	1381.7	1318.7
35°	2686.9	2389.8	2182.8	1993.8	1849.7	1737.2	1642.7	1561.7	1489.7	1422.2	1359.2
32.5°	3213.4	2754.4	2421.3	2182.8	1980.3	1827.2	1714.7	1615.7	1534.7	1462.7	1390.7
30°	3906.5	3271.9	2754.4	2389.8	2142.3	1944.3	1786.7	1669.7	1579.7	1498.7	1426.7
27.5°	5004.7	3906.5	3213.4	2686.9	2313.3	2065.8	1876.8	1737.2	1624.7	1534.7	1458.2
25°	6548.4	4892.2	3731.0	3033.4	2556.3	2214.3	1975.8	1795.7	1669.7	1570.7	1485.2
22.5°	8317.1	6129.8	4550.1	3488.0	2799.4	2358.3	2079.3	1872.2	1723.7	1606.7	1512.2
20°	10990.5	7646.5	5400.7	4001.0	3132.4	2569.8	2200.8	1948.8	1768.7	1642.7	1539.2
17.5°	13546.8	9536.8	6597.9	4671.6	3483.5	2758.9	2308.8	2025.3	1813.7	1674.2	1566.2
15°	16179.7	11575.5	7745.5	5274.7	3803.0	2956.9	2434.8	2101.8	1867.7	1710.2	1588.7
12.5°	18497.5	13434.3	9050.7	6089.3	4280.1	3204.4	2569.8	2173.8	1917.3	1737.2	1611.2
10°	20504.7	15216.5	10423.4	6854.4	4676.1	3411.5	2677.9	2236.8	1953.3	1759.7	1624.7
7.5°	22116.0	16629.7	11508.0	7462.0	4991.2	3573.5	2763.4	2286.3	1984.8	1782.2	1638.2
5°	23290.6	17660.4	12295.6	7898.6	5216.2	3690.5	2826.4	2322.3	2007.3	1795.7	1647.2
2.5°	24010.7	18497.5	12934.7	8254.1	5400.7	3785.0	2875.9	2349.3	2025.3	1804.7	1656.2
0°	24249.2	18497.5	12934.7	8254.1	5400.7	3785.0	2875.9	2349.3	2025.3	1804.7	1656.2

REPORT NUMBER: P623678

CATALOG NUMBER: IFLD-S-SA6C-740-U-55

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°	31.5	31.5	27.0	27.0	22.5	22.5	18.0	18.0	13.5	13.5	9.0
85°	72.0	63.0	58.5	54.0	49.5	45.0	40.5	36.0	31.5	27.0	22.5
82.5°	121.5	112.5	99.0	90.0	81.0	72.0	58.5	54.0	45.0	36.0	31.5
80°	171.0	157.5	144.0	130.5	117.0	103.5	90.0	76.5	63.0	49.5	40.5
77.5°	220.5	202.5	189.0	171.0	153.0	135.0	117.0	99.0	81.0	63.0	49.5
75°	279.0	256.5	234.0	211.5	189.0	166.5	148.5	126.0	103.5	81.0	63.0
72.5°	342.0	310.5	283.5	256.5	225.0	202.5	175.5	153.0	126.0	99.0	76.5
70°	409.6	373.5	337.5	301.5	270.0	234.0	207.0	175.5	148.5	117.0	90.0
67.5°	477.1	436.6	396.1	351.0	310.5	274.5	234.0	202.5	166.5	135.0	103.5
65°	558.1	504.1	454.6	405.1	355.5	310.5	270.0	225.0	189.0	153.0	117.0
62.5°	634.6	576.1	517.6	459.1	405.1	351.0	301.5	256.5	211.5	171.0	130.5
60°	711.1	648.1	580.6	517.6	454.6	396.1	337.5	283.5	234.0	189.0	144.0
57.5°	787.6	715.6	648.1	576.1	504.1	436.6	373.5	310.5	256.5	202.5	157.5
55°	855.1	787.6	711.1	634.6	558.1	477.1	409.6	342.0	279.0	220.5	171.0
52.5°	927.1	850.6	774.1	688.6	612.1	522.1	445.6	369.0	301.5	238.5	184.5
50°	994.6	913.6	828.1	747.1	657.1	567.1	481.6	400.6	324.0	256.5	193.5
47.5°	1057.6	972.1	886.6	796.6	706.6	612.1	517.6	427.6	346.5	274.5	207.0
45°	1111.6	1035.1	940.6	846.1	756.1	652.6	553.6	454.6	369.0	292.5	216.0
42.5°	1161.2	1084.6	994.6	900.1	796.6	693.1	589.6	486.1	391.6	306.0	229.5
40°	1206.2	1129.7	1044.1	940.6	837.1	733.6	621.1	513.1	414.1	324.0	238.5
37.5°	1251.2	1170.2	1084.6	985.6	877.6	769.6	657.1	544.6	436.6	337.5	252.0
35°	1287.2	1210.7	1120.6	1026.1	913.6	805.6	688.6	571.6	454.6	351.0	265.5
32.5°	1318.7	1246.7	1161.2	1062.1	949.6	832.6	715.6	594.1	472.6	369.0	274.5
30°	1350.2	1278.2	1188.2	1093.6	985.6	864.1	742.6	616.6	495.1	382.6	283.5
27.5°	1381.7	1305.2	1219.7	1120.6	1017.1	891.1	769.6	639.1	513.1	396.1	292.5
25°	1408.7	1327.7	1246.7	1147.7	1044.1	918.1	792.1	661.6	531.1	409.6	301.5
22.5°	1431.2	1350.2	1269.2	1170.2	1066.6	940.6	810.1	679.6	544.6	418.6	310.5
20°	1453.7	1372.7	1287.2	1192.7	1084.6	963.1	828.1	697.6	558.1	427.6	315.0
17.5°	1476.2	1390.7	1305.2	1210.7	1102.6	981.1	846.1	711.1	571.6	436.6	324.0
15°	1494.2	1404.2	1318.7	1224.2	1120.6	999.1	859.6	724.6	580.6	445.6	328.5
12.5°	1507.7	1417.7	1332.2	1237.7	1129.7	1012.6	873.1	733.6	589.6	454.6	333.0
10°	1521.2	1431.2	1341.2	1251.2	1143.2	1021.6	882.1	742.6	598.6	459.1	337.5
7.5°	1530.2	1440.2	1350.2	1260.2	1152.2	1030.6	891.1	751.6	603.1	463.6	342.0
5°	1539.2	1444.7	1354.7	1264.7	1156.7	1044.1	900.1	760.6	612.1	468.1	342.0
2.5°	1543.7	1449.2	1359.2	1269.2	1161.2	1044.1	900.1	760.6	612.1	468.1	342.0
0°	1543.7	1449.2	1359.2	1269.2	1161.2	1044.1	900.1	760.6	612.1	468.1	342.0

REPORT NUMBER: P623678

CATALOG NUMBER: IFLD-S-SA6C-740-U-55

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.0	4.5	4.5	0.0
85°	13.5	9.0	4.5	0.0
82.5°	22.5	13.5	9.0	0.0
80°	31.5	22.5	9.0	0.0
77.5°	36.0	27.0	13.5	0.0
75°	45.0	31.5	13.5	0.0
72.5°	54.0	36.0	18.0	0.0
70°	58.5	40.5	18.0	0.0
67.5°	72.0	45.0	22.5	0.0
65°	81.0	49.5	22.5	0.0
62.5°	90.0	54.0	27.0	0.0
60°	99.0	58.5	27.0	0.0
57.5°	112.5	63.0	31.5	0.0
55°	121.5	72.0	31.5	0.0
52.5°	130.5	76.5	36.0	0.0
50°	139.5	81.0	36.0	0.0
47.5°	144.0	90.0	40.5	0.0
45°	153.0	94.5	40.5	0.0
42.5°	162.0	99.0	45.0	0.0
40°	171.0	103.5	45.0	0.0
37.5°	180.0	108.0	45.0	0.0
35°	184.5	112.5	49.5	0.0
32.5°	193.5	117.0	49.5	0.0
30°	198.0	121.5	49.5	0.0
27.5°	202.5	126.0	54.0	0.0
25°	207.0	126.0	54.0	0.0
22.5°	211.5	130.5	54.0	0.0
20°	216.0	135.0	54.0	0.0
17.5°	220.5	135.0	54.0	0.0
15°	225.0	139.5	58.5	0.0
12.5°	229.5	139.5	58.5	0.0
10°	229.5	144.0	58.5	0.0
7.5°	234.0	144.0	58.5	0.0
5°	234.0	144.0	58.5	0.0
2.5°	234.0	144.0	58.5	0.0
0°	234.0	144.0	58.5	0.0

(END OF REPORT)