

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: P623358

Luminaire Tested: **IFLD-S-SA6B-730-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623358
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-730-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	31560.7 lumens	Max Intensity:	102053.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	128.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

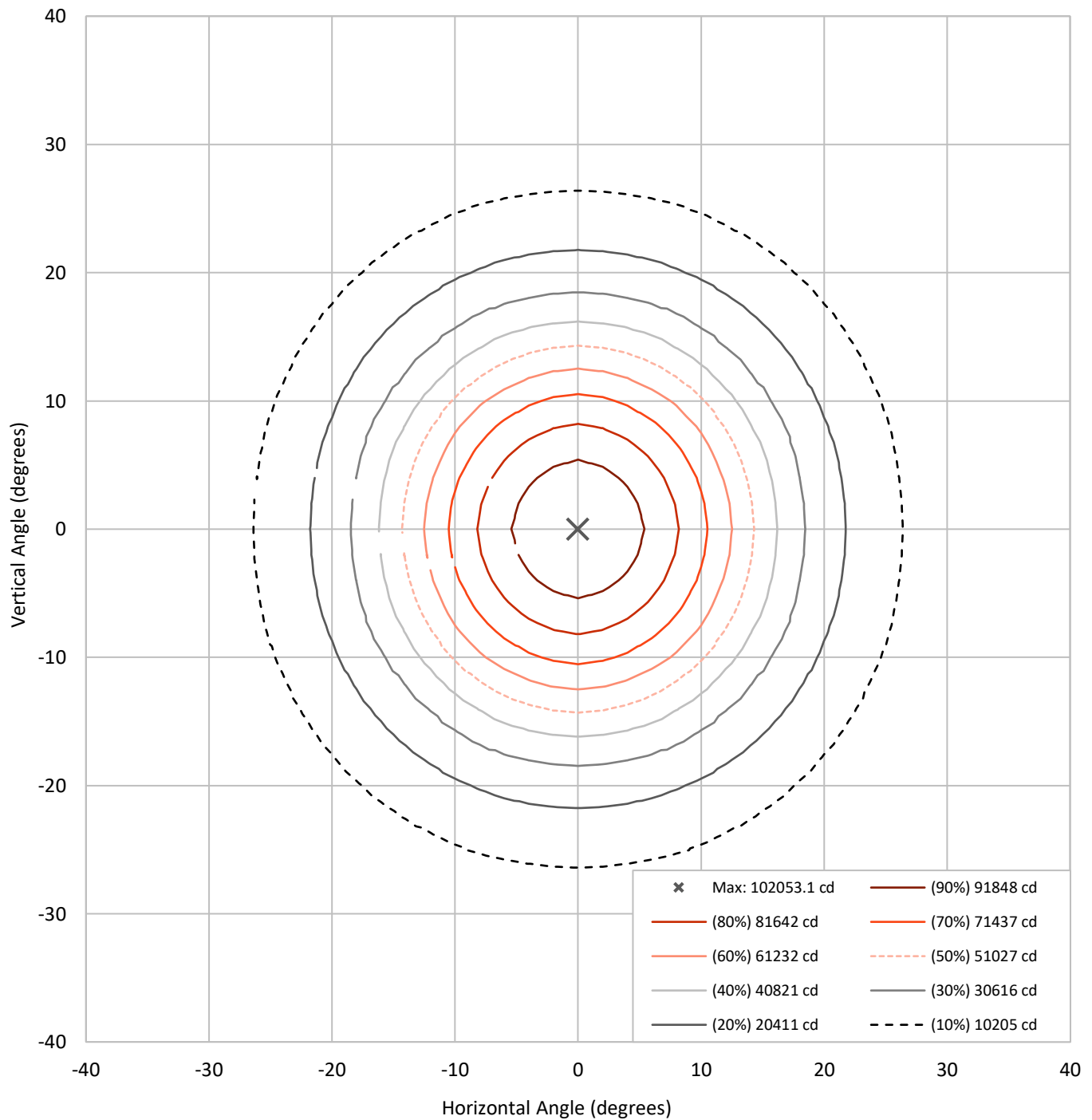
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	11387.7 lumens	Field Lumens:	19229.7 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

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: P623358
CATALOG NUMBER: IFLD-S-SA6B-730-U-44

Iso-Candela Plot





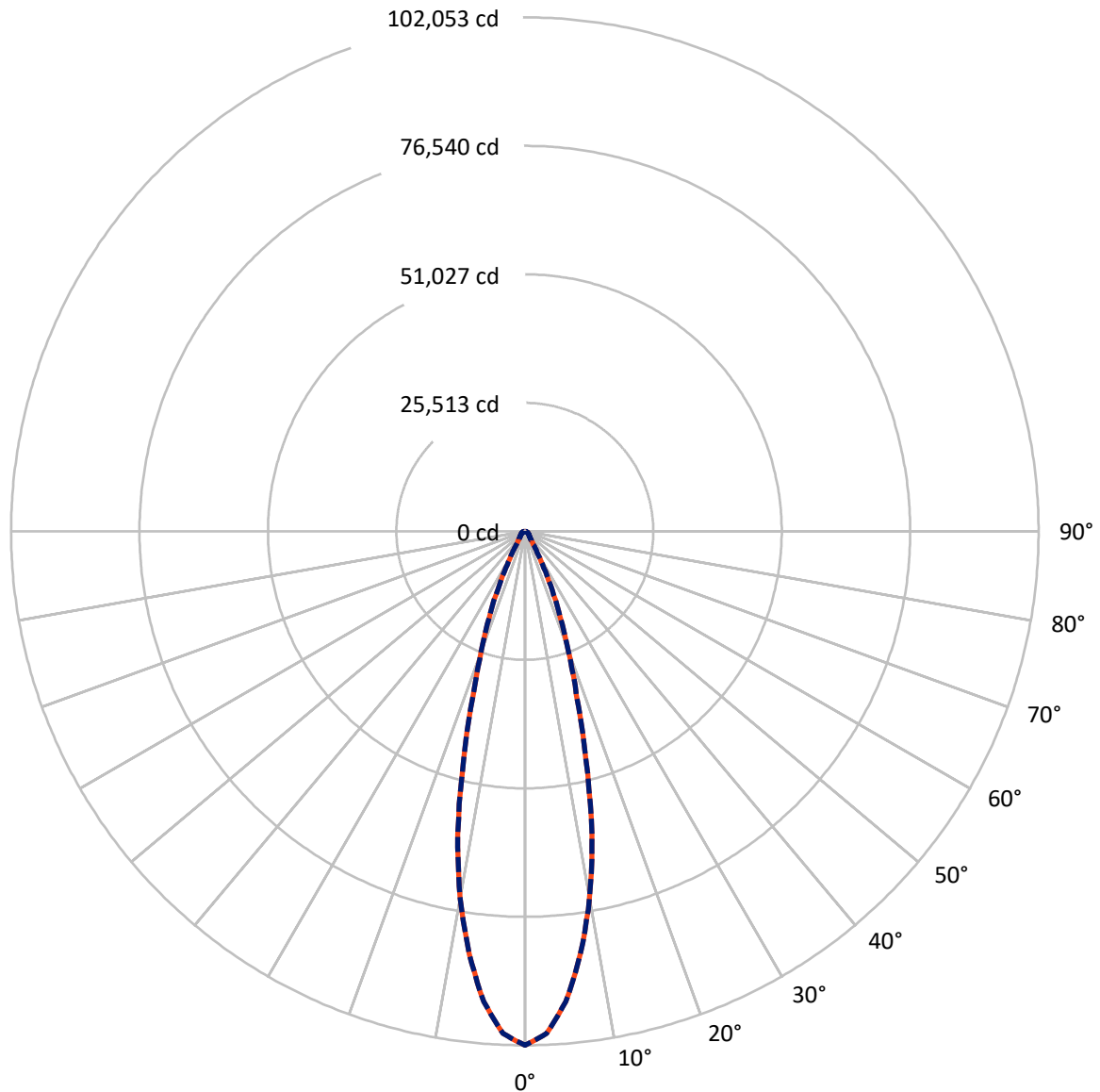
REPORT NUMBER: P623358
CATALOG NUMBER: IFLD-S-SA6B-730-U-44

Lumen Table

[illegible]

REPORT NUMBER: P623358
CATALOG NUMBER: IFLD-S-SA6B-730-U-44

Luminous Intensity Polar Plot

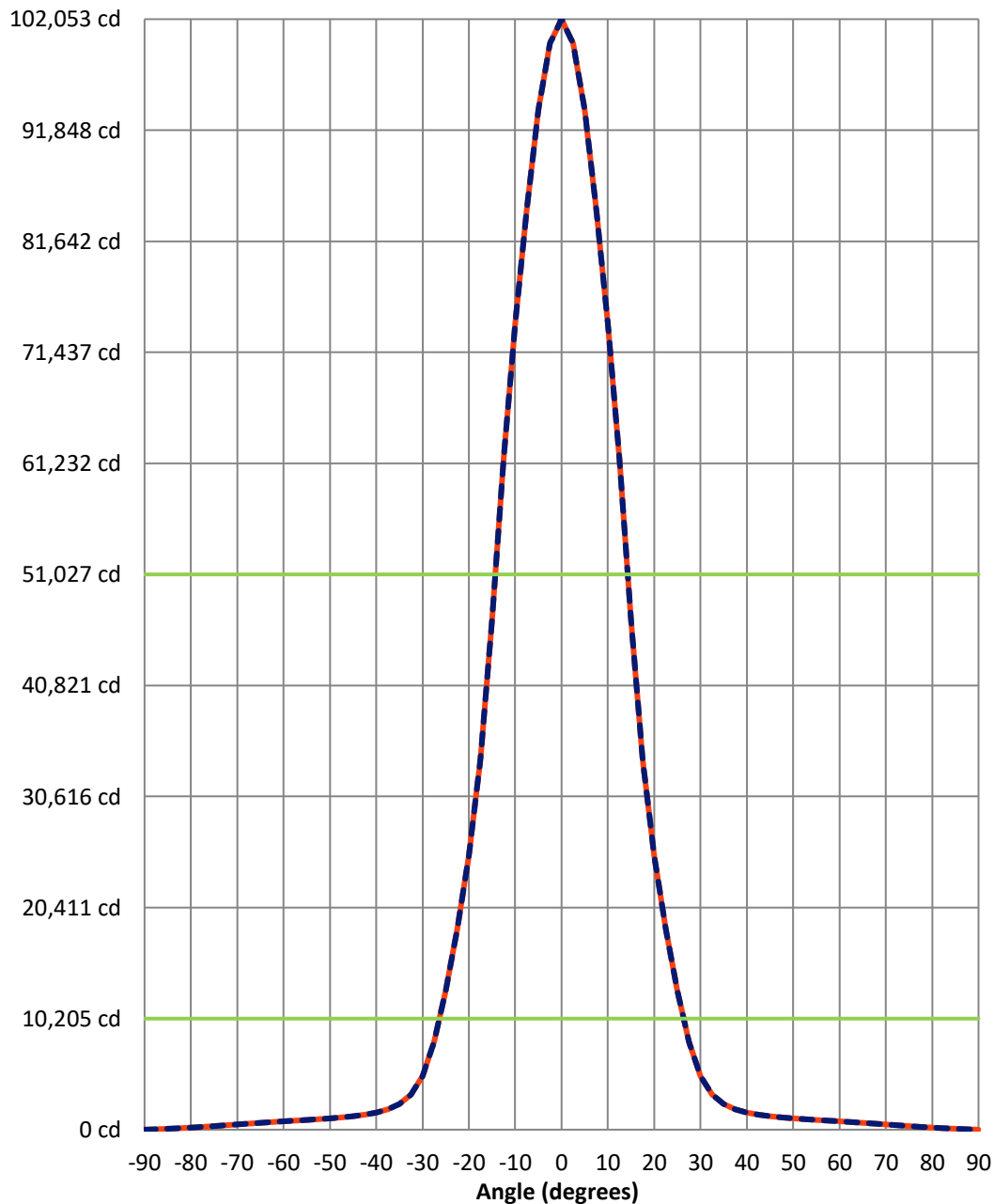


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623358

CATALOG NUMBER: IFLD-S-SA6B-730-U-44

Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 11387.7
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 19229.7
Efficiency: 60.9%

Spill:

Lumens: 12331
Efficiency: 39.1%

— Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

REPORT NUMBER: P623358

CATALOG NUMBER: IFLD-S-SA6B-730-U-44

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°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	32.9	32.9	32.9	32.9
85°	82.3	82.3	82.3	82.3	82.3	79.0	79.0	79.0	75.7	75.7	72.4
82.5°	131.6	131.6	131.6	131.6	128.3	128.3	125.0	125.0	121.8	121.8	118.5
80°	187.6	187.6	187.6	187.6	184.3	181.0	181.0	177.7	174.4	171.1	167.8
77.5°	253.4	253.4	253.4	250.1	246.8	246.8	243.5	236.9	233.6	227.0	223.8
75°	325.8	325.8	325.8	322.5	319.2	315.9	309.3	306.0	299.4	292.9	283.0
72.5°	404.7	404.7	404.7	401.4	394.9	391.6	385.0	378.4	371.8	362.0	352.1
70°	480.4	480.4	480.4	473.8	470.5	464.0	457.4	450.8	440.9	431.1	421.2
67.5°	556.1	556.1	556.1	549.5	546.2	539.6	533.1	523.2	513.3	500.2	490.3
65°	625.2	625.2	621.9	618.6	615.3	608.8	598.9	592.3	582.4	569.3	556.1
62.5°	697.6	697.6	694.3	691.0	684.4	677.9	668.0	658.1	644.9	631.8	618.6
60°	770.0	770.0	766.7	763.4	756.8	747.0	737.1	727.2	714.0	697.6	681.1
57.5°	829.2	829.2	825.9	822.6	816.1	809.5	799.6	789.7	776.6	763.4	743.7
55°	891.7	891.7	888.4	881.9	875.3	868.7	858.8	845.7	832.5	816.1	802.9
52.5°	964.1	964.1	960.8	954.3	944.4	934.5	921.4	904.9	888.4	872.0	852.3
50°	1036.5	1036.5	1029.9	1023.4	1016.8	1003.6	990.5	974.0	954.3	934.5	911.5
47.5°	1125.4	1125.4	1118.8	1108.9	1095.8	1082.6	1062.8	1039.8	1020.1	997.0	970.7
45°	1234.0	1234.0	1224.1	1214.2	1197.8	1174.7	1151.7	1125.4	1095.8	1066.1	1033.2
42.5°	1375.4	1375.4	1362.3	1345.8	1322.8	1293.2	1257.0	1220.8	1184.6	1145.1	1105.6
40°	1566.3	1566.3	1546.6	1523.5	1487.3	1444.6	1391.9	1342.5	1293.2	1237.2	1187.9
37.5°	1865.7	1865.7	1832.8	1790.1	1730.8	1658.4	1569.6	1503.8	1428.1	1355.7	1289.9
35°	2356.0	2356.0	2296.8	2221.1	2115.8	1984.2	1842.7	1730.8	1605.8	1503.8	1408.4
32.5°	3228.0	3228.0	3109.6	2961.5	2760.8	2504.1	2267.2	2069.8	1865.7	1707.8	1556.4
30°	4916.1	4916.1	4662.7	4350.1	3919.0	3379.4	2974.7	2596.2	2250.7	1990.8	1770.3
27.5°	8084.9	7953.3	7558.4	6910.2	6021.7	4916.1	4211.9	3412.3	2866.1	2369.2	2063.2
25°	12764.0	12546.9	11895.3	10832.5	9384.6	7742.7	6304.7	4787.7	3830.2	3004.3	2435.0
22.5°	18450.1	18150.7	17265.5	15821.0	13863.1	11678.2	9351.7	7170.1	5228.7	3971.7	3004.3
20°	25182.6	24781.1	23593.2	21665.0	19072.0	16291.5	13185.2	10263.2	7463.0	5228.7	3830.2
17.5°	34070.3	33458.3	31658.4	28762.7	25182.6	21434.6	17551.8	13780.8	10263.2	7170.1	4787.7
15°	46847.5	45814.3	42793.6	37996.0	32421.8	27196.4	22244.1	17551.8	13185.2	9351.7	6304.7
12.5°	61618.8	60180.8	56018.3	49526.0	41951.2	33688.6	27196.4	21434.6	16291.5	11678.2	7742.7
10°	74063.7	72546.7	68246.0	61734.0	52128.9	41951.2	32421.8	25182.6	19072.0	13863.1	9384.6
7.5°	84577.0	82879.0	78242.7	71118.6	61734.0	49526.0	37996.0	28762.7	21665.0	15821.0	10832.5
5°	93708.2	91556.2	86159.7	78242.7	68246.0	56018.3	42793.6	31658.4	23593.2	17265.5	11895.3
2.5°	99808.9	97281.8	91556.2	82879.0	72546.7	60180.8	45814.3	33458.3	24781.1	18150.7	12546.9
0°	102053.1	99808.9	93708.2	84577.0	74063.7	61618.8	46847.5	34070.3	25182.6	18450.1	12764.0

REPORT NUMBER: P623358

CATALOG NUMBER: IFLD-S-SA6B-730-U-44

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°	32.9	32.9	29.6	29.6	29.6	26.3	26.3	26.3	23.0	23.0	23.0
85°	72.4	69.1	69.1	65.8	62.5	59.2	59.2	55.9	52.6	49.4	46.1
82.5°	115.2	111.9	108.6	105.3	102.0	95.4	92.1	88.8	82.3	79.0	75.7
80°	161.2	157.9	151.4	148.1	141.5	134.9	128.3	121.8	115.2	108.6	102.0
77.5°	217.2	207.3	200.7	194.1	184.3	177.7	167.8	161.2	151.4	141.5	131.6
75°	276.4	266.5	256.7	246.8	236.9	223.8	213.9	200.7	190.9	177.7	167.8
72.5°	342.2	329.1	315.9	302.7	289.6	276.4	263.2	246.8	233.6	217.2	200.7
70°	408.0	394.9	381.7	365.3	348.8	332.3	315.9	296.1	279.7	260.0	240.2
67.5°	477.1	460.7	444.2	427.8	411.3	391.6	368.5	348.8	325.8	302.7	283.0
65°	542.9	526.5	506.7	487.0	467.3	447.5	424.5	401.4	375.1	348.8	325.8
62.5°	602.2	585.7	569.3	546.2	526.5	503.5	480.4	450.8	424.5	398.2	368.5
60°	664.7	644.9	625.2	602.2	579.1	556.1	529.8	500.2	473.8	440.9	411.3
57.5°	723.9	704.2	681.1	658.1	631.8	605.5	579.1	549.5	519.9	487.0	454.1
55°	783.2	763.4	740.4	714.0	684.4	654.8	625.2	595.6	566.0	529.8	493.6
52.5°	832.5	812.8	789.7	770.0	737.1	707.5	674.6	638.4	605.5	569.3	533.1
50°	885.2	862.1	835.8	812.8	786.4	756.8	720.6	684.4	644.9	608.8	569.3
47.5°	944.4	914.8	885.2	855.5	829.2	796.3	766.7	727.2	687.7	644.9	605.5
45°	1003.6	970.7	937.8	901.6	868.7	835.8	802.9	770.0	727.2	684.4	638.4
42.5°	1066.1	1026.7	990.5	954.3	914.8	875.3	839.1	802.9	766.7	720.6	674.6
40°	1138.5	1092.5	1046.4	1003.6	964.1	918.1	875.3	835.8	796.3	756.8	707.5
37.5°	1220.8	1164.9	1108.9	1056.3	1006.9	964.1	914.8	868.7	829.2	786.4	737.1
35°	1326.1	1243.8	1178.0	1112.2	1056.3	1003.6	954.3	901.6	855.5	812.8	770.0
32.5°	1444.6	1342.5	1253.7	1178.0	1108.9	1046.4	990.5	937.8	885.2	835.8	789.7
30°	1589.3	1457.7	1342.5	1243.8	1164.9	1092.5	1026.7	970.7	914.8	862.1	812.8
27.5°	1793.3	1589.3	1444.6	1326.1	1220.8	1138.5	1066.1	1003.6	944.4	885.2	832.5
25°	2063.2	1770.3	1556.4	1408.4	1289.9	1187.9	1105.6	1033.2	970.7	911.5	852.3
22.5°	2369.2	1990.8	1707.8	1503.8	1355.7	1237.2	1145.1	1066.1	997.0	934.5	872.0
20°	2866.1	2250.7	1865.7	1605.8	1428.1	1293.2	1184.6	1095.8	1020.1	954.3	888.4
17.5°	3412.3	2596.2	2069.8	1730.8	1503.8	1342.5	1220.8	1125.4	1039.8	974.0	904.9
15°	4211.9	2974.7	2267.2	1842.7	1569.6	1391.9	1257.0	1151.7	1062.8	990.5	921.4
12.5°	4916.1	3379.4	2504.1	1984.2	1658.4	1444.6	1293.2	1174.7	1082.6	1003.6	934.5
10°	6021.7	3919.0	2760.8	2115.8	1730.8	1487.3	1322.8	1197.8	1095.8	1016.8	944.4
7.5°	6910.2	4350.1	2961.5	2221.1	1790.1	1523.5	1345.8	1214.2	1108.9	1023.4	954.3
5°	7558.4	4662.7	3109.6	2296.8	1832.8	1546.6	1362.3	1224.1	1118.8	1029.9	960.8
2.5°	7953.3	4916.1	3228.0	2356.0	1865.7	1566.3	1375.4	1234.0	1125.4	1036.5	964.1
0°	8084.9	4916.1	3228.0	2356.0	1865.7	1566.3	1375.4	1234.0	1125.4	1036.5	964.1

REPORT NUMBER: P623358

CATALOG NUMBER: IFLD-S-SA6B-730-U-44

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°	19.7	19.7	16.5	16.5	16.5	13.2	13.2	9.9	9.9	6.6	6.6
85°	42.8	39.5	36.2	32.9	29.6	26.3	26.3	23.0	19.7	16.5	13.2
82.5°	69.1	65.8	59.2	52.6	49.4	42.8	36.2	32.9	29.6	23.0	19.7
80°	95.4	88.8	82.3	75.7	69.1	59.2	52.6	46.1	36.2	29.6	26.3
77.5°	125.0	115.2	105.3	95.4	85.6	79.0	69.1	59.2	49.4	39.5	29.6
75°	154.7	141.5	131.6	118.5	108.6	95.4	82.3	72.4	62.5	49.4	36.2
72.5°	187.6	171.1	157.9	141.5	128.3	115.2	98.7	85.6	72.4	59.2	46.1
70°	223.8	204.0	184.3	167.8	151.4	131.6	115.2	98.7	82.3	69.1	52.6
67.5°	260.0	236.9	213.9	190.9	171.1	151.4	131.6	115.2	95.4	79.0	59.2
65°	296.1	269.8	246.8	220.5	194.1	171.1	151.4	128.3	108.6	85.6	69.1
62.5°	335.6	306.0	276.4	246.8	220.5	190.9	167.8	141.5	118.5	95.4	75.7
60°	378.4	345.5	309.3	276.4	246.8	213.9	184.3	157.9	131.6	105.3	82.3
57.5°	417.9	381.7	345.5	306.0	269.8	236.9	204.0	171.1	141.5	115.2	88.8
55°	457.4	417.9	378.4	335.6	296.1	260.0	223.8	187.6	154.7	125.0	95.4
52.5°	493.6	454.1	411.3	368.5	325.8	283.0	240.2	200.7	167.8	131.6	102.0
50°	529.8	487.0	440.9	398.2	348.8	302.7	260.0	217.2	177.7	141.5	108.6
47.5°	566.0	519.9	473.8	424.5	375.1	325.8	279.7	233.6	190.9	151.4	115.2
45°	595.6	549.5	500.2	450.8	401.4	348.8	296.1	246.8	200.7	161.2	121.8
42.5°	625.2	579.1	529.8	480.4	424.5	368.5	315.9	263.2	213.9	167.8	128.3
40°	654.8	605.5	556.1	503.5	447.5	391.6	332.3	276.4	223.8	177.7	134.9
37.5°	684.4	631.8	579.1	526.5	467.3	411.3	348.8	289.6	236.9	184.3	141.5
35°	714.0	658.1	602.2	546.2	487.0	427.8	365.3	302.7	246.8	194.1	148.1
32.5°	740.4	681.1	625.2	569.3	506.7	444.2	381.7	315.9	256.7	200.7	151.4
30°	763.4	704.2	644.9	585.7	526.5	460.7	394.9	329.1	266.5	207.3	157.9
27.5°	783.2	723.9	664.7	602.2	542.9	477.1	408.0	342.2	276.4	217.2	161.2
25°	802.9	743.7	681.1	618.6	556.1	490.3	421.2	352.1	283.0	223.8	167.8
22.5°	816.1	763.4	697.6	631.8	569.3	500.2	431.1	362.0	292.9	227.0	171.1
20°	832.5	776.6	714.0	644.9	582.4	513.3	440.9	371.8	299.4	233.6	174.4
17.5°	845.7	789.7	727.2	658.1	592.3	523.2	450.8	378.4	306.0	236.9	177.7
15°	858.8	799.6	737.1	668.0	598.9	533.1	457.4	385.0	309.3	243.5	181.0
12.5°	868.7	809.5	747.0	677.9	608.8	539.6	464.0	391.6	315.9	246.8	181.0
10°	875.3	816.1	756.8	684.4	615.3	546.2	470.5	394.9	319.2	246.8	184.3
7.5°	881.9	822.6	763.4	691.0	618.6	549.5	473.8	401.4	322.5	250.1	187.6
5°	888.4	825.9	766.7	694.3	621.9	556.1	480.4	404.7	325.8	253.4	187.6
2.5°	891.7	829.2	770.0	697.6	625.2	556.1	480.4	404.7	325.8	253.4	187.6
0°	891.7	829.2	770.0	697.6	625.2	556.1	480.4	404.7	325.8	253.4	187.6

REPORT NUMBER: P623358

CATALOG NUMBER: IFLD-S-SA6B-730-U-44

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	0.0	0.0
85°	9.9	6.6	3.3	0.0
82.5°	13.2	9.9	3.3	0.0
80°	19.7	13.2	6.6	0.0
77.5°	23.0	16.5	6.6	0.0
75°	29.6	19.7	9.9	0.0
72.5°	32.9	23.0	9.9	0.0
70°	36.2	26.3	13.2	0.0
67.5°	42.8	26.3	13.2	0.0
65°	49.4	29.6	16.5	0.0
62.5°	52.6	32.9	16.5	0.0
60°	59.2	36.2	16.5	0.0
57.5°	65.8	39.5	19.7	0.0
55°	69.1	42.8	19.7	0.0
52.5°	75.7	46.1	23.0	0.0
50°	79.0	49.4	23.0	0.0
47.5°	82.3	52.6	23.0	0.0
45°	88.8	55.9	26.3	0.0
42.5°	92.1	59.2	26.3	0.0
40°	95.4	59.2	26.3	0.0
37.5°	102.0	62.5	29.6	0.0
35°	105.3	65.8	29.6	0.0
32.5°	108.6	69.1	29.6	0.0
30°	111.9	69.1	32.9	0.0
27.5°	115.2	72.4	32.9	0.0
25°	118.5	72.4	32.9	0.0
22.5°	121.8	75.7	32.9	0.0
20°	121.8	75.7	32.9	0.0
17.5°	125.0	79.0	32.9	0.0
15°	125.0	79.0	36.2	0.0
12.5°	128.3	79.0	36.2	0.0
10°	128.3	82.3	36.2	0.0
7.5°	131.6	82.3	36.2	0.0
5°	131.6	82.3	36.2	0.0
2.5°	131.6	82.3	36.2	0.0
0°	131.6	82.3	36.2	0.0

(END OF REPORT)