

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: P623515

Luminaire Tested: **IFLD-L-SA7D-827-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P623515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-44
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	37232.1 lumens	Max Intensity:	120391.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	88.1 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

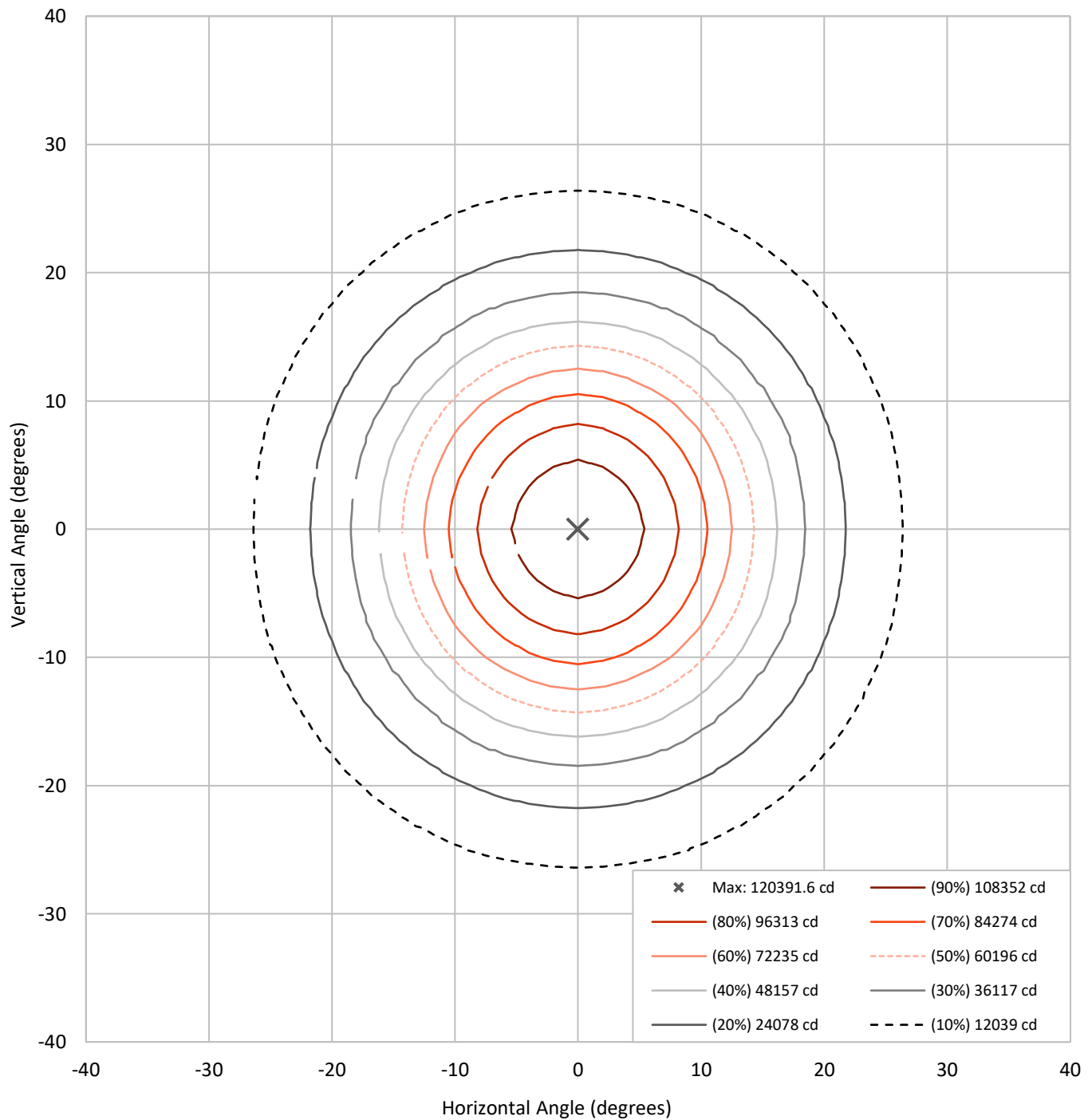
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	13434 lumens	Field Lumens:	22685.2 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 422.6
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: P623515
CATALOG NUMBER: IFLD-L-SA7D-827-U-44

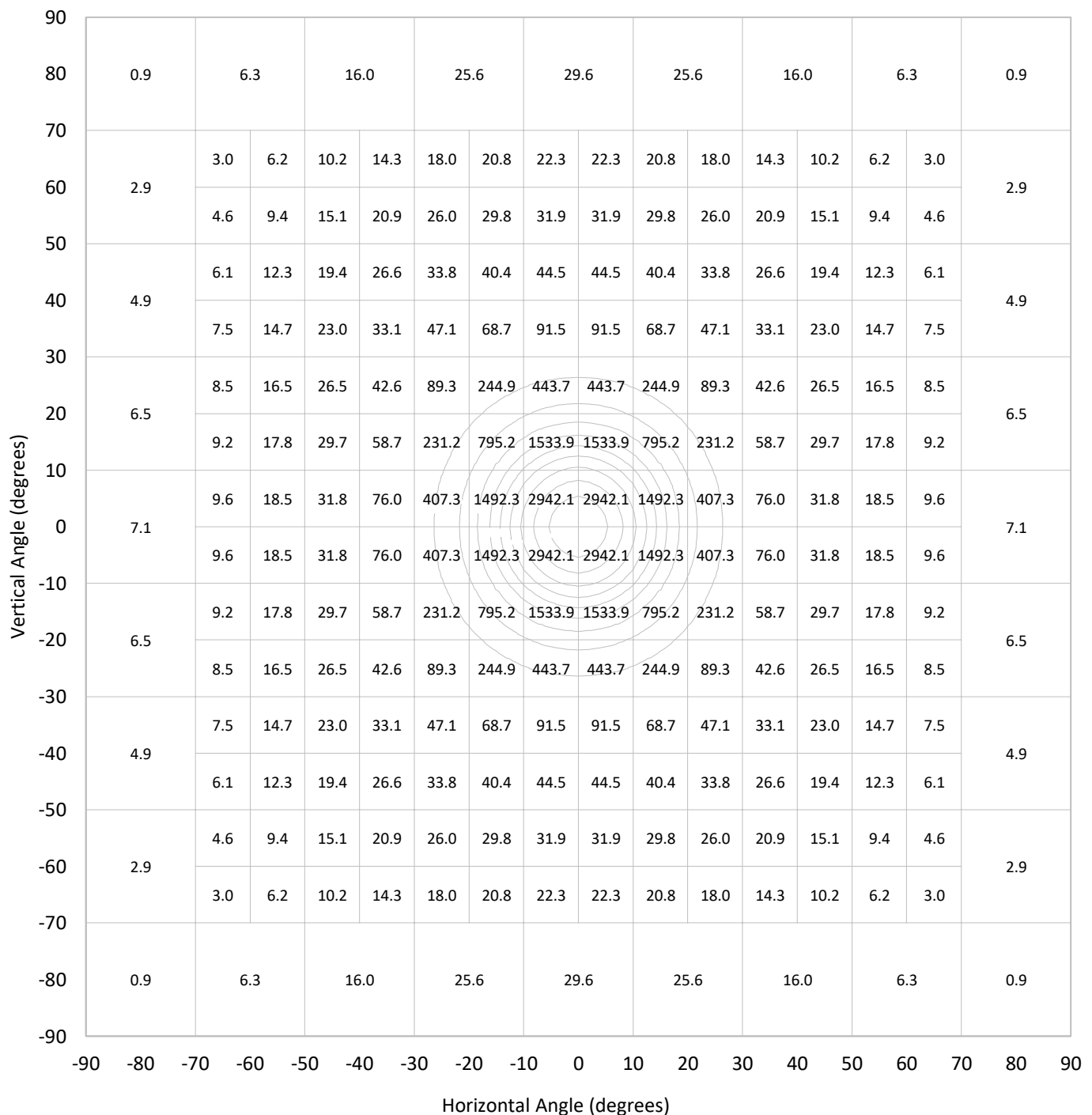
Iso-Candela Plot





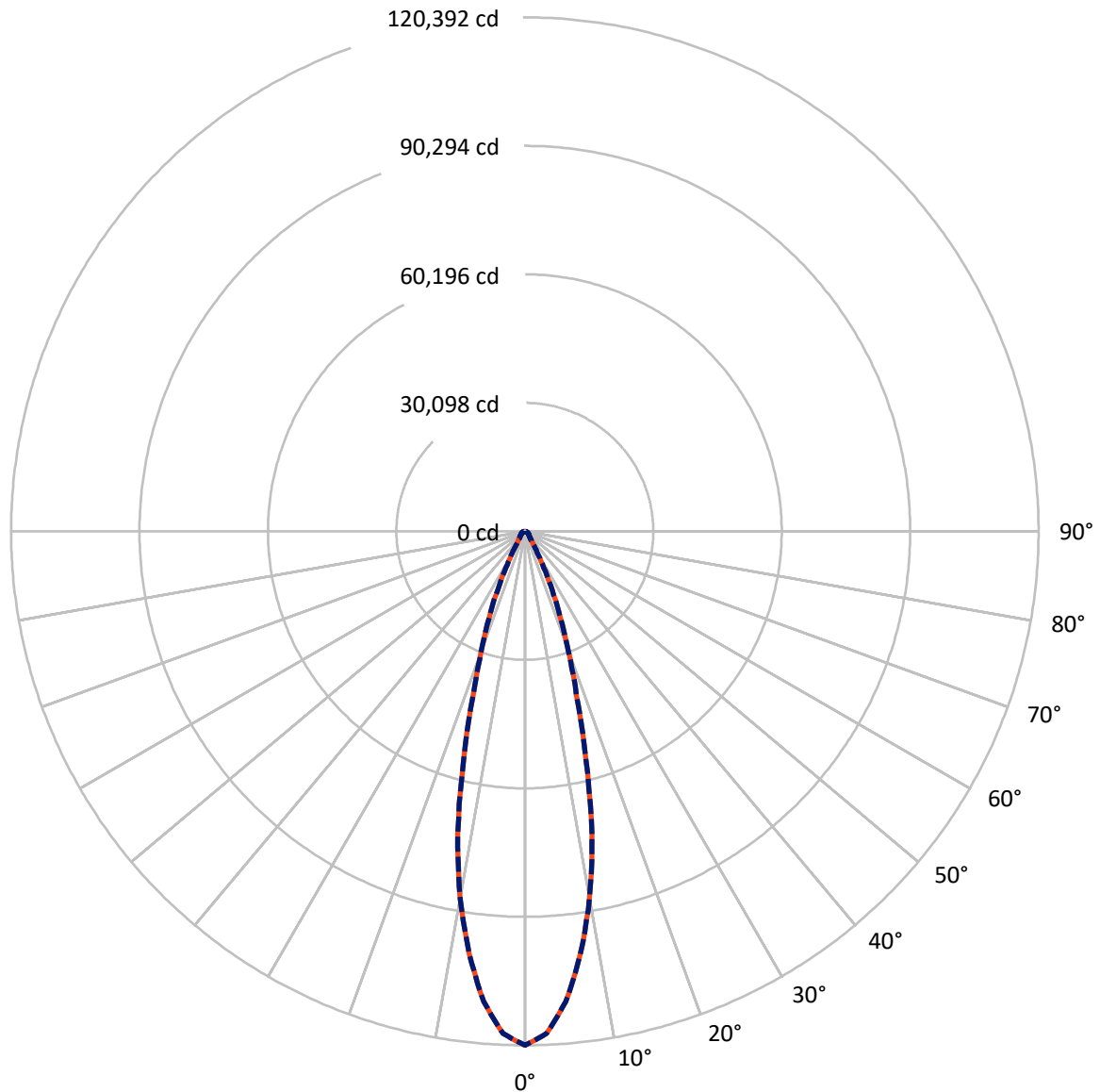
REPORT NUMBER: P623515
CATALOG NUMBER: IFLD-L-SA7D-827-U-44

Lumen Table



REPORT NUMBER: P623515
CATALOG NUMBER: IFLD-L-SA7D-827-U-44

Luminous Intensity Polar Plot

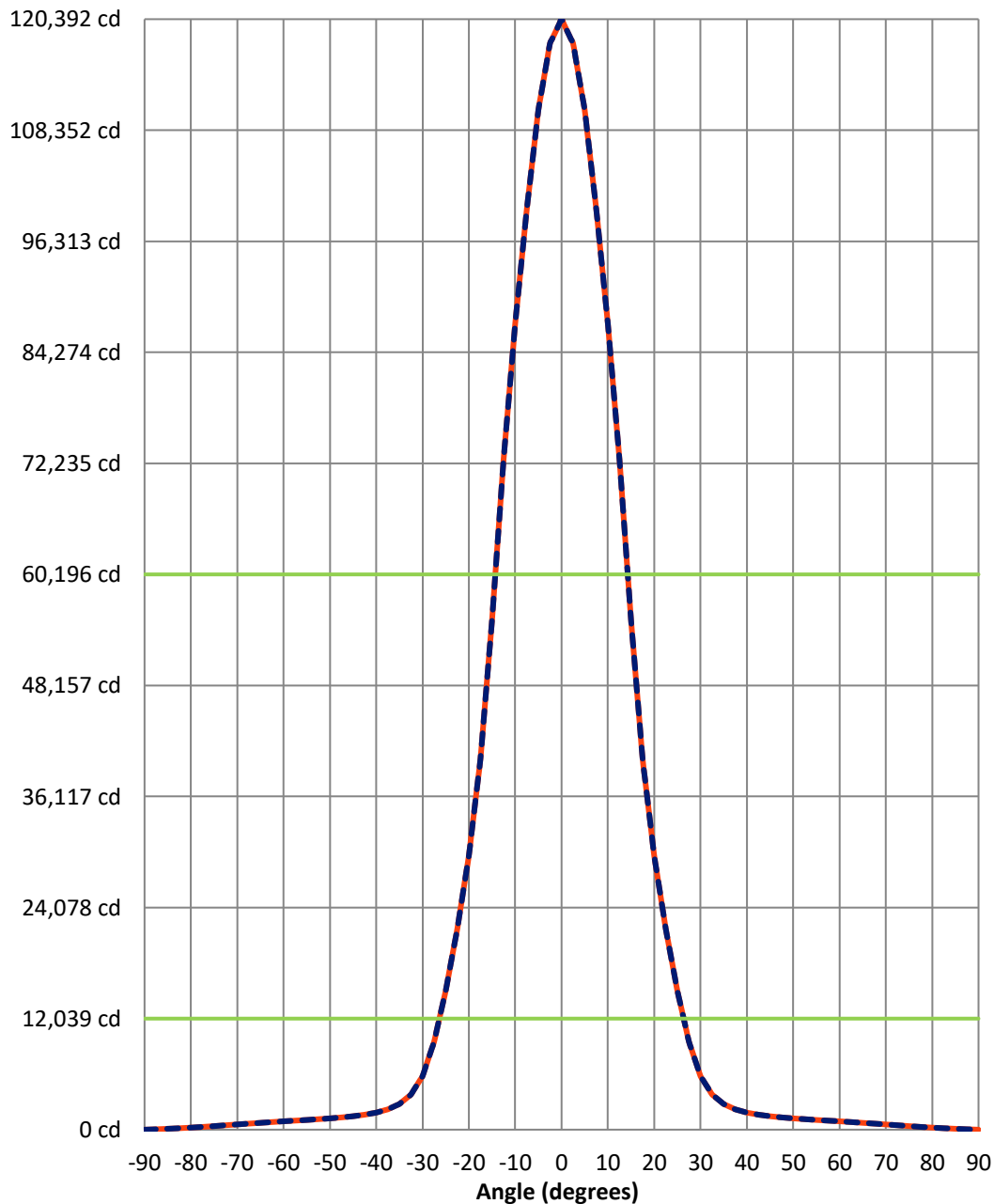


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P623515

CATALOG NUMBER: IFLD-L-SA7D-827-U-44

Luminous Intensity Plot



Beam:

H Angle: 28.6°
V Angle: 28.6°
Lumens: 13434
Efficiency: 36.1%

Field:

H Angle: 52.7°
V Angle: 52.7°
Lumens: 22685.2
Efficiency: 60.9%

Spill:

Lumens: 14546.9
Efficiency: 39.1%

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

REPORT NUMBER: P623515

CATALOG NUMBER: IFLD-L-SA7D-827-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°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	38.8	38.8	38.8	38.8
85°	97.0	97.0	97.0	97.0	97.0	93.2	93.2	93.2	89.3	89.3	85.4
82.5°	155.3	155.3	155.3	155.3	151.4	151.4	147.5	147.5	143.6	143.6	139.7
80°	221.3	221.3	221.3	221.3	217.4	213.5	213.5	209.6	205.7	201.9	198.0
77.5°	298.9	298.9	298.9	295.0	291.1	291.1	287.3	279.5	275.6	267.8	264.0
75°	384.3	384.3	384.3	380.4	376.5	372.7	364.9	361.0	353.2	345.5	333.8
72.5°	477.5	477.5	477.5	473.6	465.8	461.9	454.2	446.4	438.6	427.0	415.4
70°	566.7	566.7	566.7	559.0	555.1	547.3	539.6	531.8	520.2	508.5	496.9
67.5°	656.0	656.0	656.0	648.3	644.4	636.6	628.9	617.2	605.6	590.0	578.4
65°	737.6	737.6	733.7	729.8	725.9	718.1	706.5	698.7	687.1	671.6	656.0
62.5°	823.0	823.0	819.1	815.2	807.4	799.7	788.0	776.4	760.8	745.3	729.8
60°	908.4	908.4	904.5	900.6	892.8	881.2	869.5	857.9	842.4	823.0	803.5
57.5°	978.2	978.2	974.3	970.5	962.7	954.9	943.3	931.6	916.1	900.6	877.3
55°	1052.0	1052.0	1048.1	1040.3	1032.6	1024.8	1013.2	997.6	982.1	962.7	947.2
52.5°	1137.4	1137.4	1133.5	1125.7	1114.1	1102.4	1086.9	1067.5	1048.1	1028.7	1005.4
50°	1222.8	1222.8	1215.0	1207.3	1199.5	1184.0	1168.4	1149.0	1125.7	1102.4	1075.3
47.5°	1327.6	1327.6	1319.8	1308.2	1292.7	1277.1	1253.8	1226.7	1203.4	1176.2	1145.1
45°	1455.7	1455.7	1444.0	1432.4	1413.0	1385.8	1358.6	1327.6	1292.7	1257.7	1218.9
42.5°	1622.6	1622.6	1607.1	1587.7	1560.5	1525.6	1482.9	1440.2	1397.5	1350.9	1304.3
40°	1847.8	1847.8	1824.5	1797.3	1754.6	1704.1	1642.0	1583.8	1525.6	1459.6	1401.3
37.5°	2201.0	2201.0	2162.2	2111.7	2041.9	1956.5	1851.6	1774.0	1684.7	1599.3	1521.7
35°	2779.4	2779.4	2709.5	2620.2	2496.0	2340.8	2173.8	2041.9	1894.3	1774.0	1661.4
32.5°	3808.1	3808.1	3668.3	3493.7	3256.9	2954.1	2674.6	2441.7	2201.0	2014.7	1836.1
30°	5799.5	5799.5	5500.6	5131.8	4623.3	3986.7	3509.2	3062.8	2655.2	2348.5	2088.4
27.5°	9537.7	9382.4	8916.6	8151.9	7103.8	5799.5	4968.8	4025.5	3381.1	2794.9	2433.9
25°	15057.7	14801.5	14032.9	12779.0	11071.0	9134.0	7437.6	5648.1	4518.5	3544.1	2872.6
22.5°	21765.5	21412.3	20368.1	18663.9	16354.2	13776.7	11032.2	8458.5	6168.3	4685.4	3544.1
20°	29707.8	29234.2	27832.8	25558.1	22499.2	19219.0	15554.6	12107.5	8804.0	6168.3	4518.5
17.5°	40192.7	39470.6	37347.3	33931.2	29707.8	25286.4	20705.8	16257.2	12107.5	8458.5	5648.1
15°	55265.9	54047.0	50483.4	44823.7	38247.8	32083.5	26241.3	20705.8	15554.6	11032.2	7437.6
12.5°	72691.5	70995.1	66084.6	58425.7	49489.7	39742.4	32083.5	25286.4	19219.0	13776.7	9134.0
10°	87372.6	85583.1	80509.5	72827.3	61496.2	49489.7	38247.8	29707.8	22499.2	16354.2	11071.0
7.5°	99775.1	97772.1	92302.6	83898.4	72827.3	58425.7	44823.7	33931.2	25558.1	18663.9	12779.0
5°	110547.3	108008.5	101642.3	92302.6	80509.5	66084.6	50483.4	37347.3	27832.8	20368.1	14032.9
2.5°	117744.2	114762.9	108008.5	97772.1	85583.1	70995.1	54047.0	39470.6	29234.2	21412.3	14801.5
0°	120391.6	117744.2	110547.3	99775.1	87372.6	72691.5	55265.9	40192.7	29707.8	21765.5	15057.7

REPORT NUMBER: P623515

CATALOG NUMBER: IFLD-L-SA7D-827-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°	38.8	38.8	34.9	34.9	34.9	31.1	31.1	31.1	27.2	27.2	27.2
85°	85.4	81.5	81.5	77.6	73.8	69.9	69.9	66.0	62.1	58.2	54.3
82.5°	135.9	132.0	128.1	124.2	120.3	112.6	108.7	104.8	97.0	93.2	89.3
80°	190.2	186.3	178.6	174.7	166.9	159.2	151.4	143.6	135.9	128.1	120.3
77.5°	256.2	244.6	236.8	229.0	217.4	209.6	198.0	190.2	178.6	166.9	155.3
75°	326.1	314.4	302.8	291.1	279.5	264.0	252.3	236.8	225.1	209.6	198.0
72.5°	403.7	388.2	372.7	357.1	341.6	326.1	310.5	291.1	275.6	256.2	236.8
70°	481.3	465.8	450.3	430.9	411.5	392.1	372.7	349.4	330.0	306.7	283.4
67.5°	562.9	543.5	524.0	504.6	485.2	461.9	434.8	411.5	384.3	357.1	333.8
65°	640.5	621.1	597.8	574.5	551.2	527.9	500.8	473.6	442.5	411.5	384.3
62.5°	710.4	691.0	671.6	644.4	621.1	593.9	566.7	531.8	500.8	469.7	434.8
60°	784.1	760.8	737.6	710.4	683.2	656.0	625.0	590.0	559.0	520.2	485.2
57.5°	854.0	830.7	803.5	776.4	745.3	714.3	683.2	648.3	613.3	574.5	535.7
55°	923.9	900.6	873.4	842.4	807.4	772.5	737.6	702.6	667.7	625.0	582.3
52.5°	982.1	958.8	931.6	908.4	869.5	834.6	795.8	753.1	714.3	671.6	628.9
50°	1044.2	1017.0	986.0	958.8	927.8	892.8	850.1	807.4	760.8	718.1	671.6
47.5°	1114.1	1079.2	1044.2	1009.3	978.2	939.4	904.5	857.9	811.3	760.8	714.3
45°	1184.0	1145.1	1106.3	1063.6	1024.8	986.0	947.2	908.4	857.9	807.4	753.1
42.5°	1257.7	1211.1	1168.4	1125.7	1079.2	1032.6	989.9	947.2	904.5	850.1	795.8
40°	1343.1	1288.8	1234.4	1184.0	1137.4	1083.0	1032.6	986.0	939.4	892.8	834.6
37.5°	1440.2	1374.2	1308.2	1246.1	1187.8	1137.4	1079.2	1024.8	978.2	927.8	869.5
35°	1564.4	1467.3	1389.7	1312.1	1246.1	1184.0	1125.7	1063.6	1009.3	958.8	908.4
32.5°	1704.1	1583.8	1479.0	1389.7	1308.2	1234.4	1168.4	1106.3	1044.2	986.0	931.6
30°	1874.9	1719.7	1583.8	1467.3	1374.2	1288.8	1211.1	1145.1	1079.2	1017.0	958.8
27.5°	2115.6	1874.9	1704.1	1564.4	1440.2	1343.1	1257.7	1184.0	1114.1	1044.2	982.1
25°	2433.9	2088.4	1836.1	1661.4	1521.7	1401.3	1304.3	1218.9	1145.1	1075.3	1005.4
22.5°	2794.9	2348.5	2014.7	1774.0	1599.3	1459.6	1350.9	1257.7	1176.2	1102.4	1028.7
20°	3381.1	2655.2	2201.0	1894.3	1684.7	1525.6	1397.5	1292.7	1203.4	1125.7	1048.1
17.5°	4025.5	3062.8	2441.7	2041.9	1774.0	1583.8	1440.2	1327.6	1226.7	1149.0	1067.5
15°	4968.8	3509.2	2674.6	2173.8	1851.6	1642.0	1482.9	1358.6	1253.8	1168.4	1086.9
12.5°	5799.5	3986.7	2954.1	2340.8	1956.5	1704.1	1525.6	1385.8	1277.1	1184.0	1102.4
10°	7103.8	4623.3	3256.9	2496.0	2041.9	1754.6	1560.5	1413.0	1292.7	1199.5	1114.1
7.5°	8151.9	5131.8	3493.7	2620.2	2111.7	1797.3	1587.7	1432.4	1308.2	1207.3	1125.7
5°	8916.6	5500.6	3668.3	2709.5	2162.2	1824.5	1607.1	1444.0	1319.8	1215.0	1133.5
2.5°	9382.4	5799.5	3808.1	2779.4	2201.0	1847.8	1622.6	1455.7	1327.6	1222.8	1137.4
0°	9537.7	5799.5	3808.1	2779.4	2201.0	1847.8	1622.6	1455.7	1327.6	1222.8	1137.4

REPORT NUMBER: P623515

CATALOG NUMBER: IFLD-L-SA7D-827-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°	23.3	23.3	19.4	19.4	19.4	15.5	15.5	11.6	11.6	7.8	7.8
85°	50.5	46.6	42.7	38.8	34.9	31.1	31.1	27.2	23.3	19.4	15.5
82.5°	81.5	77.6	69.9	62.1	58.2	50.5	42.7	38.8	34.9	27.2	23.3
80°	112.6	104.8	97.0	89.3	81.5	69.9	62.1	54.3	42.7	34.9	31.1
77.5°	147.5	135.9	124.2	112.6	100.9	93.2	81.5	69.9	58.2	46.6	34.9
75°	182.4	166.9	155.3	139.7	128.1	112.6	97.0	85.4	73.8	58.2	42.7
72.5°	221.3	201.9	186.3	166.9	151.4	135.9	116.5	100.9	85.4	69.9	54.3
70°	264.0	240.7	217.4	198.0	178.6	155.3	135.9	116.5	97.0	81.5	62.1
67.5°	306.7	279.5	252.3	225.1	201.9	178.6	155.3	135.9	112.6	93.2	69.9
65°	349.4	318.3	291.1	260.1	229.0	201.9	178.6	151.4	128.1	100.9	81.5
62.5°	395.9	361.0	326.1	291.1	260.1	225.1	198.0	166.9	139.7	112.6	89.3
60°	446.4	407.6	364.9	326.1	291.1	252.3	217.4	186.3	155.3	124.2	97.0
57.5°	493.0	450.3	407.6	361.0	318.3	279.5	240.7	201.9	166.9	135.9	104.8
55°	539.6	493.0	446.4	395.9	349.4	306.7	264.0	221.3	182.4	147.5	112.6
52.5°	582.3	535.7	485.2	434.8	384.3	333.8	283.4	236.8	198.0	155.3	120.3
50°	625.0	574.5	520.2	469.7	411.5	357.1	306.7	256.2	209.6	166.9	128.1
47.5°	667.7	613.3	559.0	500.8	442.5	384.3	330.0	275.6	225.1	178.6	135.9
45°	702.6	648.3	590.0	531.8	473.6	411.5	349.4	291.1	236.8	190.2	143.6
42.5°	737.6	683.2	625.0	566.7	500.8	434.8	372.7	310.5	252.3	198.0	151.4
40°	772.5	714.3	656.0	593.9	527.9	461.9	392.1	326.1	264.0	209.6	159.2
37.5°	807.4	745.3	683.2	621.1	551.2	485.2	411.5	341.6	279.5	217.4	166.9
35°	842.4	776.4	710.4	644.4	574.5	504.6	430.9	357.1	291.1	229.0	174.7
32.5°	873.4	803.5	737.6	671.6	597.8	524.0	450.3	372.7	302.8	236.8	178.6
30°	900.6	830.7	760.8	691.0	621.1	543.5	465.8	388.2	314.4	244.6	186.3
27.5°	923.9	854.0	784.1	710.4	640.5	562.9	481.3	403.7	326.1	256.2	190.2
25°	947.2	877.3	803.5	729.8	656.0	578.4	496.9	415.4	333.8	264.0	198.0
22.5°	962.7	900.6	823.0	745.3	671.6	590.0	508.5	427.0	345.5	267.8	201.9
20°	982.1	916.1	842.4	760.8	687.1	605.6	520.2	438.6	353.2	275.6	205.7
17.5°	997.6	931.6	857.9	776.4	698.7	617.2	531.8	446.4	361.0	279.5	209.6
15°	1013.2	943.3	869.5	788.0	706.5	628.9	539.6	454.2	364.9	287.3	213.5
12.5°	1024.8	954.9	881.2	799.7	718.1	636.6	547.3	461.9	372.7	291.1	213.5
10°	1032.6	962.7	892.8	807.4	725.9	644.4	555.1	465.8	376.5	291.1	217.4
7.5°	1040.3	970.5	900.6	815.2	729.8	648.3	559.0	473.6	380.4	295.0	221.3
5°	1048.1	974.3	904.5	819.1	733.7	656.0	566.7	477.5	384.3	298.9	221.3
2.5°	1052.0	978.2	908.4	823.0	737.6	656.0	566.7	477.5	384.3	298.9	221.3
0°	1052.0	978.2	908.4	823.0	737.6	656.0	566.7	477.5	384.3	298.9	221.3

REPORT NUMBER: P623515

CATALOG NUMBER: IFLD-L-SA7D-827-U-44

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	0.0	0.0
85°	11.6	7.8	3.9	0.0
82.5°	15.5	11.6	3.9	0.0
80°	23.3	15.5	7.8	0.0
77.5°	27.2	19.4	7.8	0.0
75°	34.9	23.3	11.6	0.0
72.5°	38.8	27.2	11.6	0.0
70°	42.7	31.1	15.5	0.0
67.5°	50.5	31.1	15.5	0.0
65°	58.2	34.9	19.4	0.0
62.5°	62.1	38.8	19.4	0.0
60°	69.9	42.7	19.4	0.0
57.5°	77.6	46.6	23.3	0.0
55°	81.5	50.5	23.3	0.0
52.5°	89.3	54.3	27.2	0.0
50°	93.2	58.2	27.2	0.0
47.5°	97.0	62.1	27.2	0.0
45°	104.8	66.0	31.1	0.0
42.5°	108.7	69.9	31.1	0.0
40°	112.6	69.9	31.1	0.0
37.5°	120.3	73.8	34.9	0.0
35°	124.2	77.6	34.9	0.0
32.5°	128.1	81.5	34.9	0.0
30°	132.0	81.5	38.8	0.0
27.5°	135.9	85.4	38.8	0.0
25°	139.7	85.4	38.8	0.0
22.5°	143.6	89.3	38.8	0.0
20°	143.6	89.3	38.8	0.0
17.5°	147.5	93.2	38.8	0.0
15°	147.5	93.2	42.7	0.0
12.5°	151.4	93.2	42.7	0.0
10°	151.4	97.0	42.7	0.0
7.5°	155.3	97.0	42.7	0.0
5°	155.3	97.0	42.7	0.0
2.5°	155.3	97.0	42.7	0.0
0°	155.3	97.0	42.7	0.0

(END OF REPORT)