

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: P624578

Luminaire Tested: **IFLD-L-SA8A-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-935-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

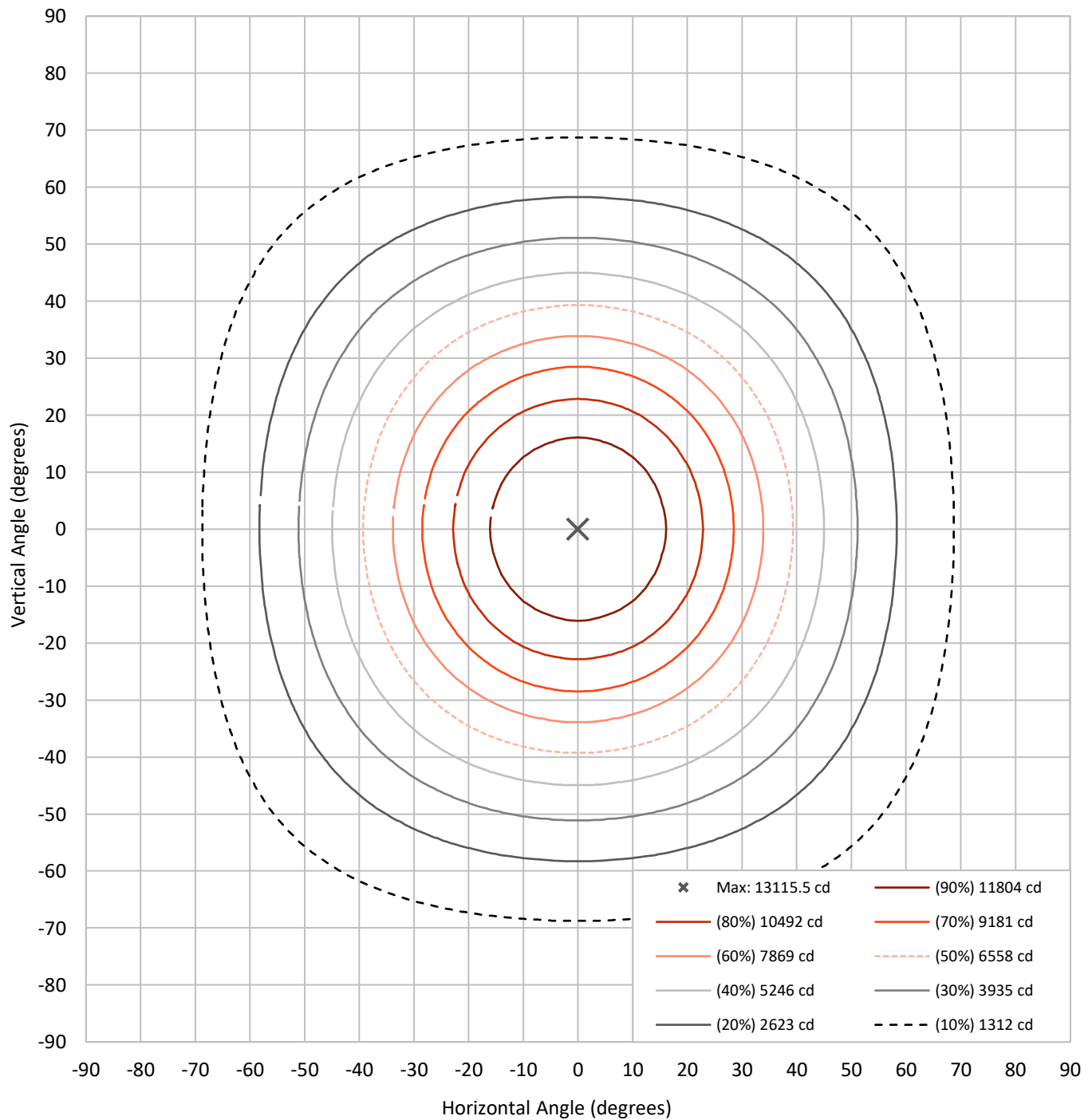
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23614.8 lumens	Max Intensity:	13115.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	95.3 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	10217.9 lumens	Field Lumens:	16731.5 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	247.8		
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: P624578

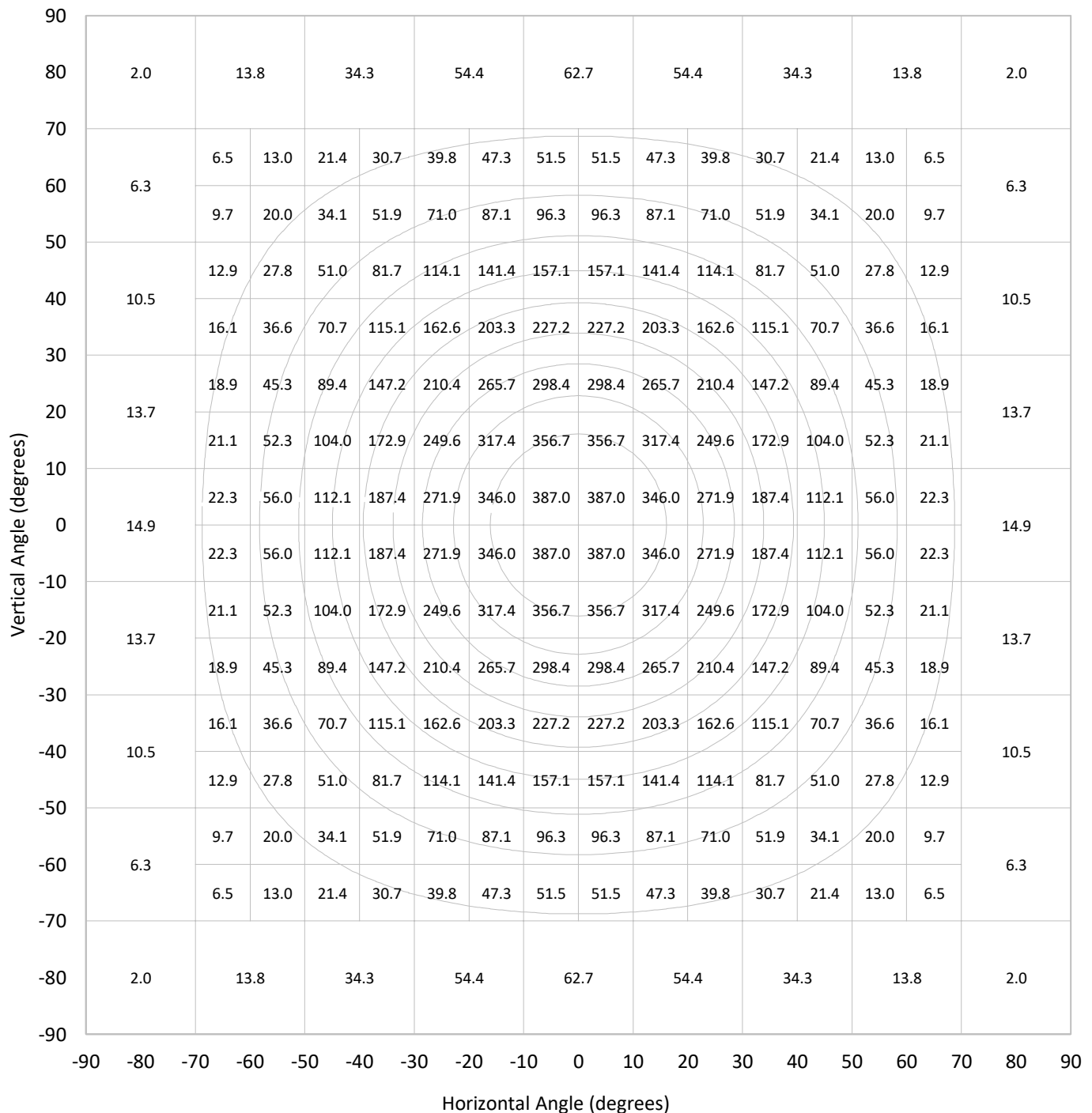
CATALOG NUMBER: IFLD-L-SA8A-935-U-77

Iso-Candela Plot



REPORT NUMBER: P624578
CATALOG NUMBER: IFLD-L-SA8A-935-U-77

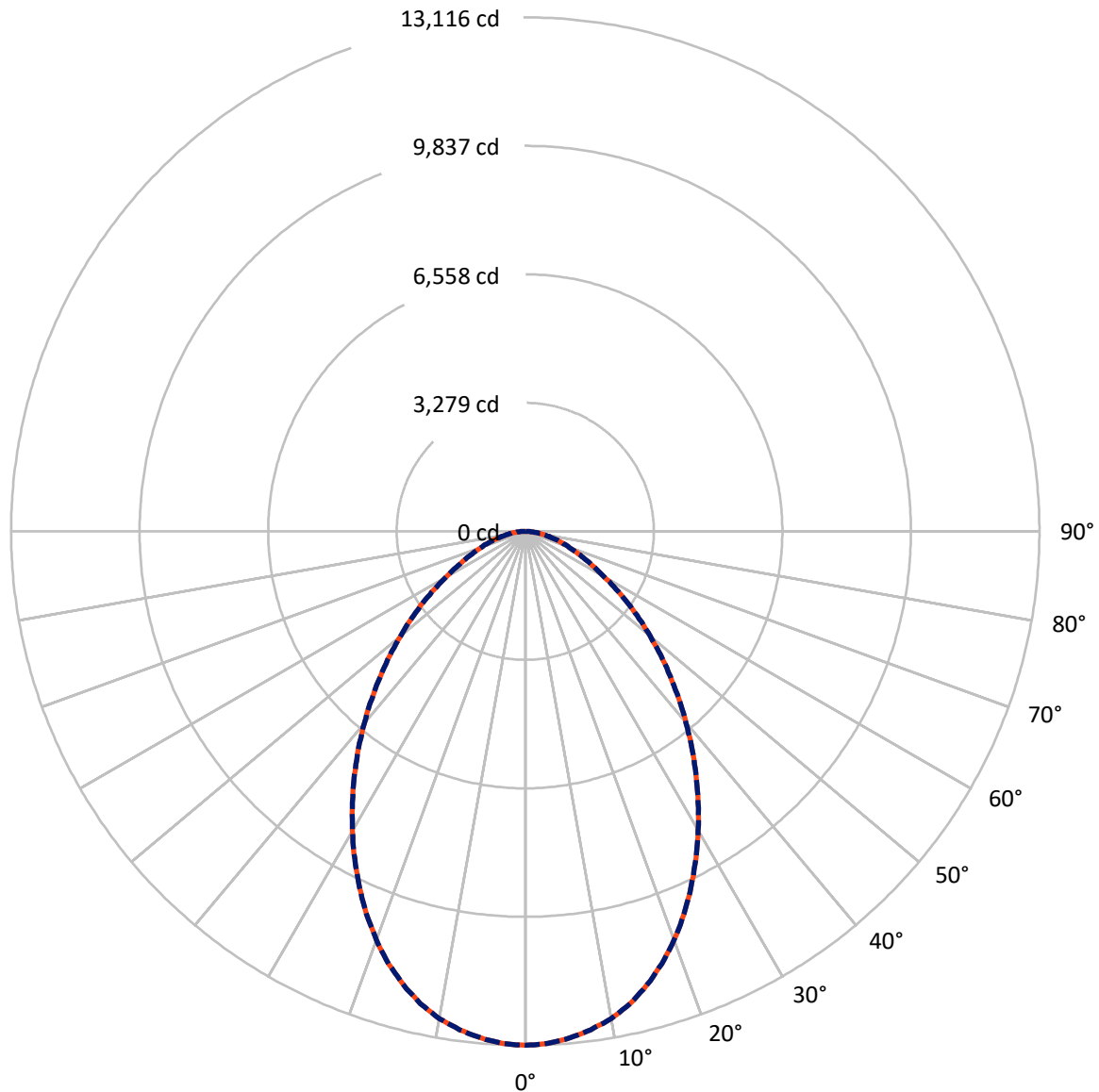
Lumen Table



REPORT NUMBER: P624578

CATALOG NUMBER: IFLD-L-SA8A-935-U-77

Luminous Intensity Polar Plot

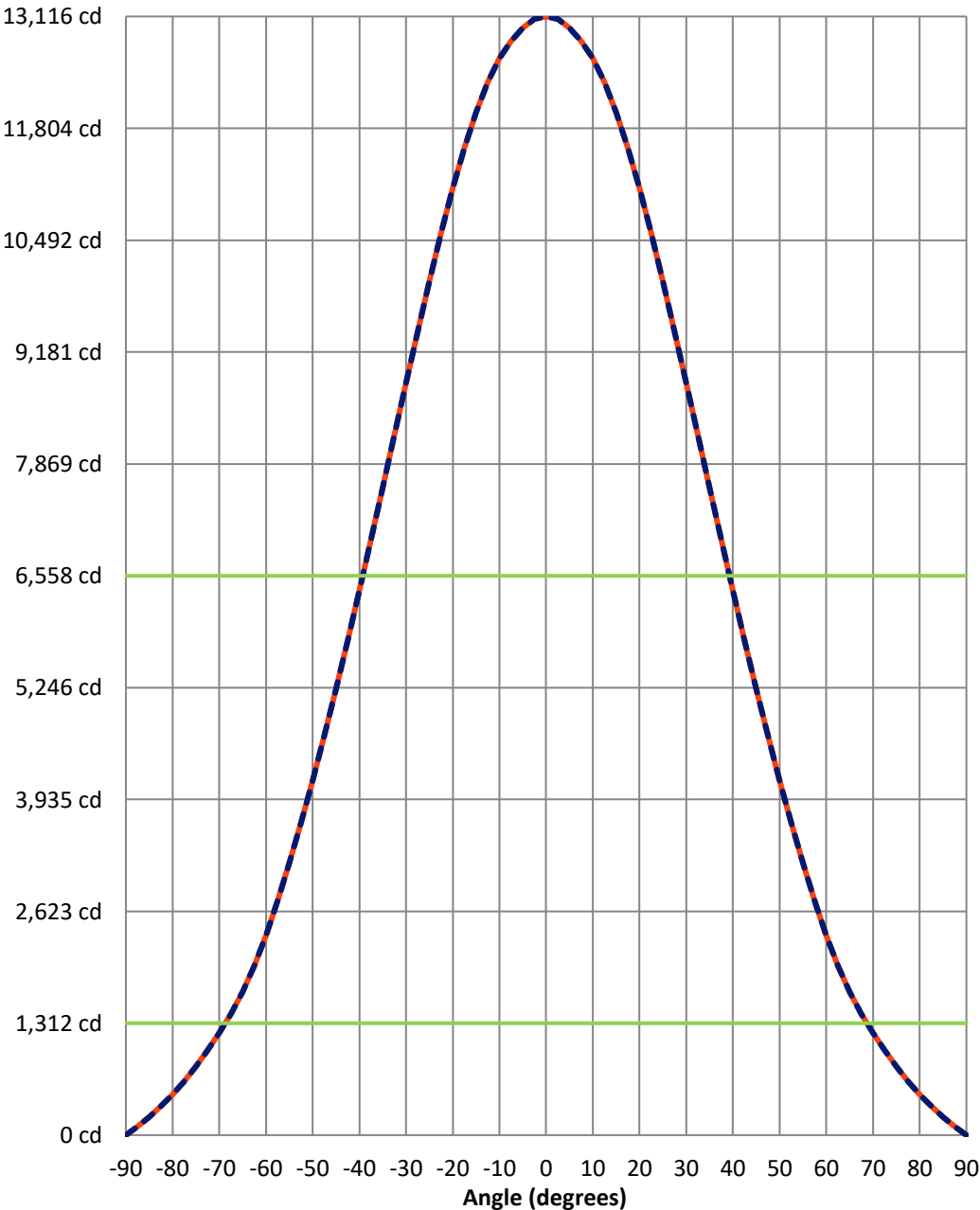


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg



REPORT NUMBER: P624578
CATALOG NUMBER: IFLD-L-SA8A-935-U-77

Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 10217.9
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 16731.5
Efficiency: 70.9%

Spill:
Lumens: 6883.4
Efficiency: 29.1%

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

REPORT NUMBER: P624578

CATALOG NUMBER: IFLD-L-SA8A-935-U-77

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°	100.9	100.9	100.9	100.9	100.9	100.9	100.9	96.0	96.0	93.6	91.1
85°	211.7	211.7	211.7	211.7	211.7	206.8	204.4	201.9	199.4	194.5	192.0
82.5°	339.8	339.8	339.8	339.8	334.8	329.9	327.5	322.5	317.6	310.2	302.8
80°	475.2	475.2	475.2	475.2	467.8	462.9	455.5	450.6	443.2	433.3	423.5
77.5°	630.3	630.3	630.3	622.9	618.0	610.6	603.2	593.4	583.5	571.2	556.4
75°	805.1	805.1	805.1	795.3	787.9	780.5	768.2	755.9	741.1	723.9	704.2
72.5°	994.7	994.7	994.7	982.4	975.0	962.7	947.9	930.7	913.4	891.3	866.7
70°	1199.0	1199.0	1199.0	1184.3	1172.0	1159.6	1139.9	1120.2	1095.6	1071.0	1041.5
67.5°	1420.6	1420.6	1420.6	1403.4	1388.6	1371.4	1349.2	1324.6	1295.1	1260.6	1226.1
65°	1679.1	1679.1	1669.3	1654.5	1637.3	1612.7	1585.6	1551.1	1514.2	1469.9	1423.1
62.5°	1984.4	1984.4	1969.7	1952.4	1930.3	1898.3	1861.3	1817.0	1765.3	1708.7	1652.1
60°	2339.0	2339.0	2321.7	2299.6	2267.6	2228.2	2178.9	2122.3	2058.3	1986.9	1918.0
57.5°	2747.7	2747.7	2725.5	2696.0	2656.6	2607.4	2545.8	2474.4	2393.1	2304.5	2218.3
55°	3190.9	3190.9	3163.8	3129.3	3082.5	3023.4	2949.6	2865.9	2767.4	2666.4	2555.6
52.5°	3661.1	3661.1	3629.1	3589.7	3535.6	3466.6	3382.9	3284.4	3171.2	3053.0	2922.5
50°	4156.0	4156.0	4119.1	4074.8	4013.2	3932.0	3835.9	3722.7	3597.1	3459.2	3309.0
47.5°	4685.4	4685.4	4643.5	4591.8	4517.9	4424.4	4311.1	4180.6	4037.8	3882.7	3712.8
45°	5229.5	5229.5	5182.7	5123.6	5042.4	4936.5	4810.9	4685.4	4503.2	4323.4	4126.5
42.5°	5795.8	5795.8	5741.6	5675.1	5581.6	5465.8	5323.0	5160.5	4980.8	4778.9	4564.7
40°	6384.2	6384.2	6322.6	6246.3	6142.9	6010.0	5849.9	5667.7	5465.8	5241.8	5005.4
37.5°	6984.9	6984.9	6916.0	6832.3	6716.6	6568.8	6389.1	6187.2	5960.7	5712.0	5451.1
35°	7590.6	7590.6	7514.3	7423.2	7295.2	7132.7	6938.2	6714.1	6463.0	6192.1	5899.2
32.5°	8208.6	8208.6	8124.9	8021.5	7876.2	7696.5	7482.3	7238.5	6984.9	6669.8	6349.7
30°	8819.2	8819.2	8728.1	8614.8	8459.7	8262.8	8028.9	7760.5	7462.6	7140.1	6795.4
27.5°	9419.9	9395.3	9319.0	9198.4	9028.5	8819.2	8565.6	8275.1	7952.5	7598.0	7228.7
25°	10010.8	9983.8	9900.1	9767.1	9584.9	9355.9	9082.6	8772.4	8425.3	8051.0	7647.2
22.5°	10577.1	10547.6	10458.9	10316.1	10121.6	9873.0	9580.0	9247.6	8878.3	8477.0	8051.0
20°	11101.6	11069.5	10978.4	10828.3	10626.4	10362.9	10052.7	9695.7	9301.8	8878.3	8425.3
17.5°	11574.3	11542.3	11446.2	11291.1	11101.6	10808.6	10488.5	10111.8	9695.7	9247.6	8772.4
15°	11990.4	11955.9	11857.4	11702.3	11485.6	11209.9	10872.6	10488.5	10052.7	9580.0	9082.6
12.5°	12344.9	12310.4	12209.5	12054.4	11830.3	11554.6	11209.9	10808.6	10362.9	9873.0	9355.9
10°	12625.6	12591.1	12495.1	12347.4	12115.9	11830.3	11485.6	11101.6	10626.4	10121.6	9584.9
7.5°	12827.5	12795.5	12706.8	12559.1	12347.4	12054.4	11702.3	11291.1	10828.3	10316.1	9767.1
5°	12980.1	12943.2	12854.6	12706.8	12495.1	12209.5	11857.4	11446.2	10978.4	10458.9	9900.1
2.5°	13086.0	13041.7	12943.2	12795.5	12591.1	12310.4	11955.9	11542.3	11069.5	10547.6	9983.8
0°	13115.5	13086.0	12980.1	12827.5	12625.6	12344.9	11990.4	11574.3	11101.6	10577.1	10010.8

REPORT NUMBER: P624578

CATALOG NUMBER: IFLD-L-SA8A-935-U-77

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°	88.6	88.6	86.2	83.7	81.2	76.3	73.9	71.4	68.9	64.0	61.6
85°	187.1	182.2	177.3	172.3	165.0	160.0	152.6	147.7	140.3	133.0	125.6
82.5°	295.5	288.1	278.2	270.8	261.0	248.7	238.8	226.5	214.2	204.4	192.0
80°	413.6	401.3	389.0	376.7	361.9	347.2	332.4	317.6	300.4	283.1	265.9
77.5°	541.7	524.4	507.2	487.5	470.3	450.6	430.9	411.2	389.0	366.9	344.7
75°	684.5	662.3	637.7	613.1	590.9	563.8	536.7	509.7	480.1	453.0	423.5
72.5°	839.6	812.5	782.9	753.4	721.4	686.9	652.5	615.5	581.1	546.6	509.7
70°	1007.0	975.0	938.1	901.1	861.7	819.9	778.0	733.7	689.4	645.1	600.7
67.5°	1186.7	1147.3	1103.0	1058.7	1009.5	960.2	911.0	859.3	805.1	750.9	699.2
65°	1378.8	1329.5	1277.8	1221.2	1164.6	1107.9	1048.8	987.3	925.7	861.7	805.1
62.5°	1593.0	1531.4	1464.9	1396.0	1332.0	1263.1	1199.0	1122.7	1048.8	977.4	906.0
60°	1841.6	1760.4	1679.1	1593.0	1511.7	1423.1	1344.3	1260.6	1176.9	1095.6	1011.9
57.5°	2119.9	2016.4	1918.0	1814.6	1706.2	1607.7	1506.8	1405.9	1312.3	1216.3	1125.2
55°	2435.0	2309.4	2186.3	2058.3	1932.7	1809.6	1681.6	1568.3	1452.6	1344.3	1238.4
52.5°	2779.7	2636.9	2484.2	2339.0	2178.9	2026.3	1883.5	1740.7	1605.3	1474.8	1354.1
50°	3149.0	2981.6	2806.8	2629.5	2447.3	2267.6	2095.2	1927.8	1770.2	1617.6	1474.8
47.5°	3533.1	3343.5	3144.1	2942.2	2747.7	2528.6	2321.7	2132.2	1942.6	1770.2	1605.3
45°	3927.0	3712.8	3493.7	3264.7	3035.8	2799.4	2570.4	2339.0	2132.2	1927.8	1740.7
42.5°	4333.3	4092.0	3848.2	3594.6	3341.1	3082.5	2824.0	2570.4	2321.7	2095.2	1883.5
40°	4751.8	4485.9	4207.7	3932.0	3661.1	3365.7	3082.5	2799.4	2528.6	2267.6	2026.3
37.5°	5170.4	4879.9	4579.5	4269.3	3959.0	3661.1	3341.1	3035.8	2747.7	2447.3	2178.9
35°	5591.4	5271.3	4946.3	4609.0	4269.3	3932.0	3594.6	3264.7	2942.2	2629.5	2339.0
32.5°	6014.9	5665.3	5305.8	4946.3	4579.5	4207.7	3848.2	3493.7	3144.1	2806.8	2484.2
30°	6431.0	6051.8	5665.3	5271.3	4879.9	4485.9	4092.0	3712.8	3343.5	2981.6	2636.9
27.5°	6837.2	6431.0	6014.9	5591.4	5170.4	4751.8	4333.3	3927.0	3533.1	3149.0	2779.7
25°	7228.7	6795.4	6349.7	5899.2	5451.1	5005.4	4564.7	4126.5	3712.8	3309.0	2922.5
22.5°	7598.0	7140.1	6669.8	6192.1	5712.0	5241.8	4778.9	4323.4	3882.7	3459.2	3053.0
20°	7952.5	7462.6	6984.9	6463.0	5960.7	5465.8	4980.8	4503.2	4037.8	3597.1	3171.2
17.5°	8275.1	7760.5	7238.5	6714.1	6187.2	5667.7	5160.5	4685.4	4180.6	3722.7	3284.4
15°	8565.6	8028.9	7482.3	6938.2	6389.1	5849.9	5323.0	4810.9	4311.1	3835.9	3382.9
12.5°	8819.2	8262.8	7696.5	7132.7	6568.8	6010.0	5465.8	4936.5	4424.4	3932.0	3466.6
10°	9028.5	8459.7	7876.2	7295.2	6716.6	6142.9	5581.6	5042.4	4517.9	4013.2	3535.6
7.5°	9198.4	8614.8	8021.5	7423.2	6832.3	6246.3	5675.1	5123.6	4591.8	4074.8	3589.7
5°	9319.0	8728.1	8124.9	7514.3	6916.0	6322.6	5741.6	5182.7	4643.5	4119.1	3629.1
2.5°	9395.3	8819.2	8208.6	7590.6	6984.9	6384.2	5795.8	5229.5	4685.4	4156.0	3661.1
0°	9419.9	8819.2	8208.6	7590.6	6984.9	6384.2	5795.8	5229.5	4685.4	4156.0	3661.1

REPORT NUMBER: P624578

CATALOG NUMBER: IFLD-L-SA8A-935-U-77

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°	59.1	54.2	49.2	46.8	41.9	39.4	34.5	29.5	27.1	22.2	17.2
85°	118.2	108.3	100.9	93.6	86.2	76.3	68.9	61.6	51.7	44.3	34.5
82.5°	179.7	167.4	155.1	142.8	130.5	118.2	103.4	91.1	78.8	66.5	51.7
80°	248.7	229.0	211.7	194.5	177.3	160.0	140.3	123.1	103.4	86.2	68.9
77.5°	320.1	297.9	273.3	248.7	224.0	201.9	177.3	155.1	133.0	108.3	86.2
75°	396.4	366.9	339.8	307.8	278.2	246.2	216.7	187.1	160.0	133.0	103.4
72.5°	475.2	438.3	401.3	366.9	329.9	293.0	258.5	221.6	187.1	155.1	123.1
70°	556.4	512.1	467.8	425.9	384.1	339.8	300.4	258.5	216.7	177.3	140.3
67.5°	642.6	590.9	539.2	485.0	438.3	389.0	339.8	293.0	246.2	201.9	160.0
65°	736.2	674.6	610.6	554.0	492.4	438.3	384.1	329.9	278.2	224.0	177.3
62.5°	832.2	760.8	689.4	618.0	554.0	485.0	425.9	366.9	307.8	248.7	194.5
60°	930.7	849.4	768.2	689.4	610.6	539.2	467.8	401.3	339.8	273.3	211.7
57.5°	1031.6	940.5	849.4	760.8	674.6	590.9	512.1	438.3	366.9	297.9	229.0
55°	1135.0	1031.6	930.7	832.2	736.2	642.6	556.4	475.2	396.4	320.1	248.7
52.5°	1238.4	1125.2	1011.9	906.0	805.1	699.2	600.7	509.7	423.5	344.7	265.9
50°	1344.3	1216.3	1095.6	977.4	861.7	750.9	645.1	546.6	453.0	366.9	283.1
47.5°	1452.6	1312.3	1176.9	1048.8	925.7	805.1	689.4	581.1	480.1	389.0	300.4
45°	1568.3	1405.9	1260.6	1122.7	987.3	859.3	733.7	615.5	509.7	411.2	317.6
42.5°	1681.6	1506.8	1344.3	1199.0	1048.8	911.0	778.0	652.5	536.7	430.9	332.4
40°	1809.6	1607.7	1423.1	1263.1	1107.9	960.2	819.9	686.9	563.8	450.6	347.2
37.5°	1932.7	1706.2	1511.7	1332.0	1164.6	1009.5	861.7	721.4	590.9	470.3	361.9
35°	2058.3	1814.6	1593.0	1396.0	1221.2	1058.7	901.1	753.4	613.1	487.5	376.7
32.5°	2186.3	1918.0	1679.1	1464.9	1277.8	1103.0	938.1	782.9	637.7	507.2	389.0
30°	2309.4	2016.4	1760.4	1531.4	1329.5	1147.3	975.0	812.5	662.3	524.4	401.3
27.5°	2435.0	2119.9	1841.6	1593.0	1378.8	1186.7	1007.0	839.6	684.5	541.7	413.6
25°	2555.6	2218.3	1918.0	1652.1	1423.1	1226.1	1041.5	866.7	704.2	556.4	423.5
22.5°	2666.4	2304.5	1986.9	1708.7	1469.9	1260.6	1071.0	891.3	723.9	571.2	433.3
20°	2767.4	2393.1	2058.3	1765.3	1514.2	1295.1	1095.6	913.4	741.1	583.5	443.2
17.5°	2865.9	2474.4	2122.3	1817.0	1551.1	1324.6	1120.2	930.7	755.9	593.4	450.6
15°	2949.6	2545.8	2178.9	1861.3	1585.6	1349.2	1139.9	947.9	768.2	603.2	455.5
12.5°	3023.4	2607.4	2228.2	1898.3	1612.7	1371.4	1159.6	962.7	780.5	610.6	462.9
10°	3082.5	2656.6	2267.6	1930.3	1637.3	1388.6	1172.0	975.0	787.9	618.0	467.8
7.5°	3129.3	2696.0	2299.6	1952.4	1654.5	1403.4	1184.3	982.4	795.3	622.9	475.2
5°	3163.8	2725.5	2321.7	1969.7	1669.3	1420.6	1199.0	994.7	805.1	630.3	475.2
2.5°	3190.9	2747.7	2339.0	1984.4	1679.1	1420.6	1199.0	994.7	805.1	630.3	475.2
0°	3190.9	2747.7	2339.0	1984.4	1679.1	1420.6	1199.0	994.7	805.1	630.3	475.2

REPORT NUMBER: P624578

CATALOG NUMBER: IFLD-L-SA8A-935-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	12.3	9.8	4.9	0.0
85°	27.1	17.2	9.8	0.0
82.5°	39.4	27.1	12.3	0.0
80°	51.7	34.5	17.2	0.0
77.5°	66.5	44.3	22.2	0.0
75°	78.8	51.7	27.1	0.0
72.5°	91.1	61.6	29.5	0.0
70°	103.4	68.9	34.5	0.0
67.5°	118.2	76.3	39.4	0.0
65°	130.5	86.2	41.9	0.0
62.5°	142.8	93.6	46.8	0.0
60°	155.1	100.9	49.2	0.0
57.5°	167.4	108.3	54.2	0.0
55°	179.7	118.2	59.1	0.0
52.5°	192.0	125.6	61.6	0.0
50°	204.4	133.0	64.0	0.0
47.5°	214.2	140.3	68.9	0.0
45°	226.5	147.7	71.4	0.0
42.5°	238.8	152.6	73.9	0.0
40°	248.7	160.0	76.3	0.0
37.5°	261.0	165.0	81.2	0.0
35°	270.8	172.3	83.7	0.0
32.5°	278.2	177.3	86.2	0.0
30°	288.1	182.2	88.6	0.0
27.5°	295.5	187.1	88.6	0.0
25°	302.8	192.0	91.1	0.0
22.5°	310.2	194.5	93.6	0.0
20°	317.6	199.4	96.0	0.0
17.5°	322.5	201.9	96.0	0.0
15°	327.5	204.4	100.9	0.0
12.5°	329.9	206.8	100.9	0.0
10°	334.8	211.7	100.9	0.0
7.5°	339.8	211.7	100.9	0.0
5°	339.8	211.7	100.9	0.0
2.5°	339.8	211.7	100.9	0.0
0°	339.8	211.7	100.9	0.0

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