

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: P624065

Luminaire Tested: **IFLD-L-SA7C-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624065
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

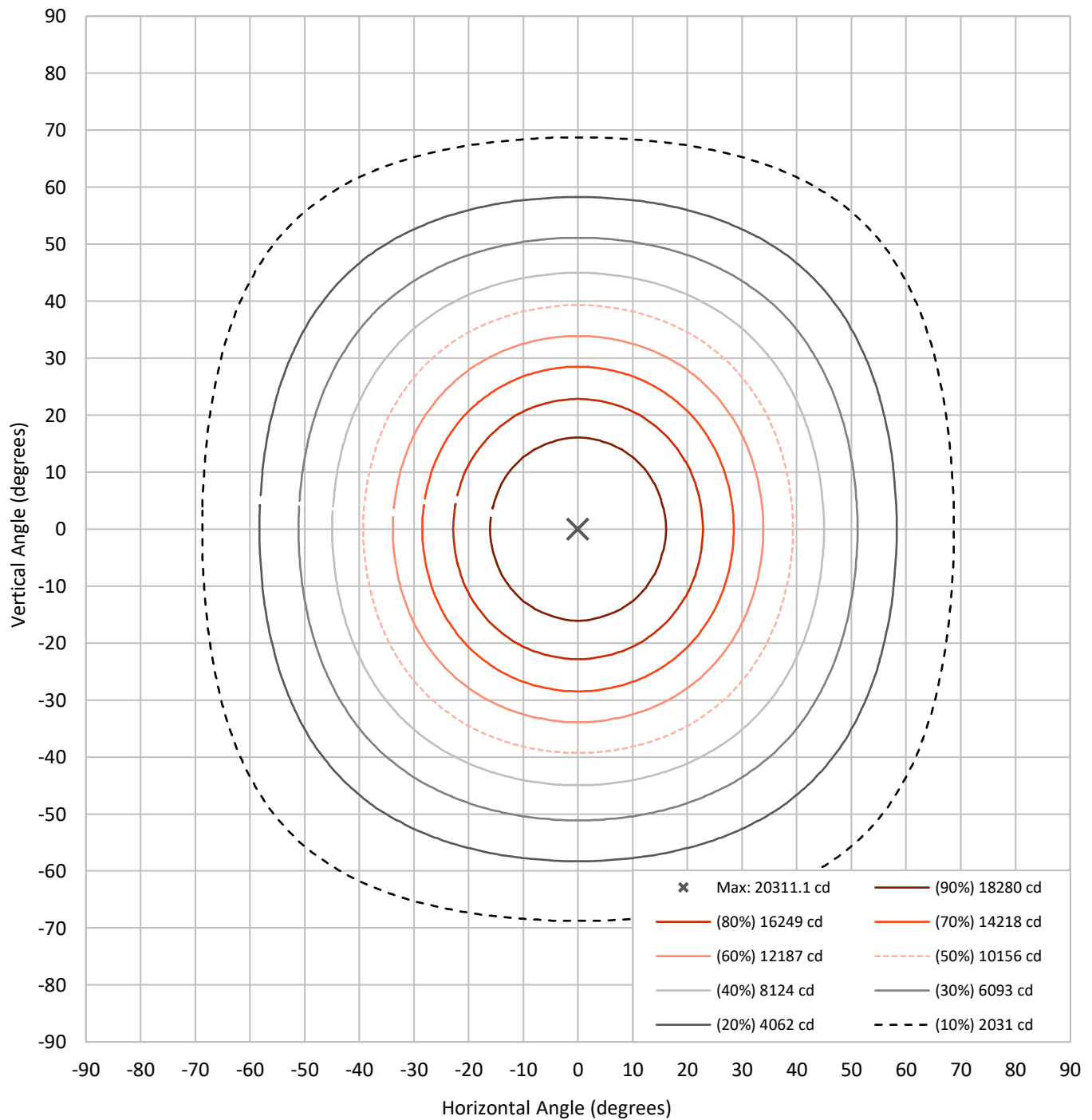
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36570.6 lumens	Max Intensity:	20311.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	99.1 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:	15823.7 lumens	Field Lumens:	25910.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	369		
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		



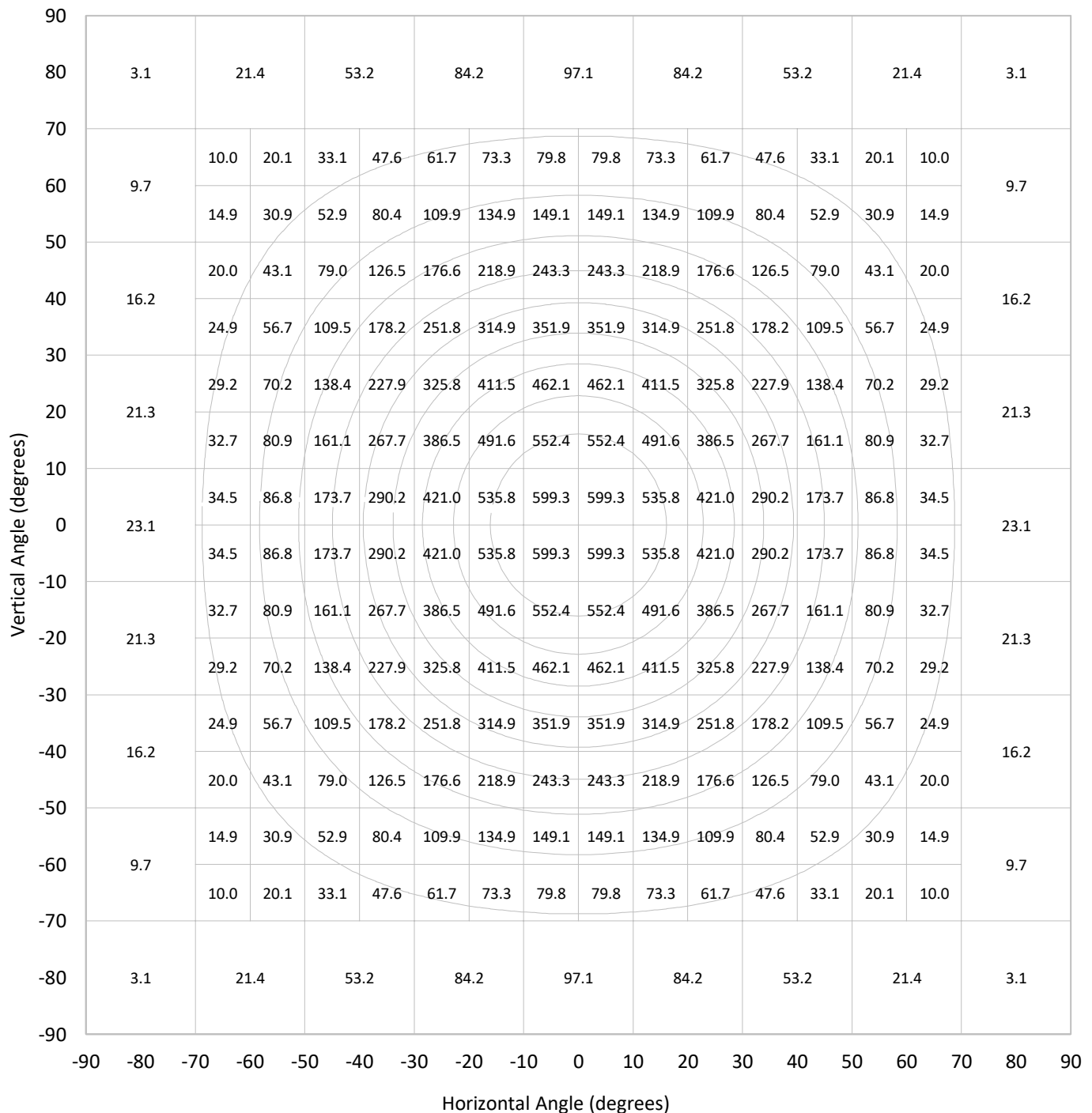
REPORT NUMBER: P624065
CATALOG NUMBER: IFLD-L-SA7C-830-U-77

Iso-Candela Plot



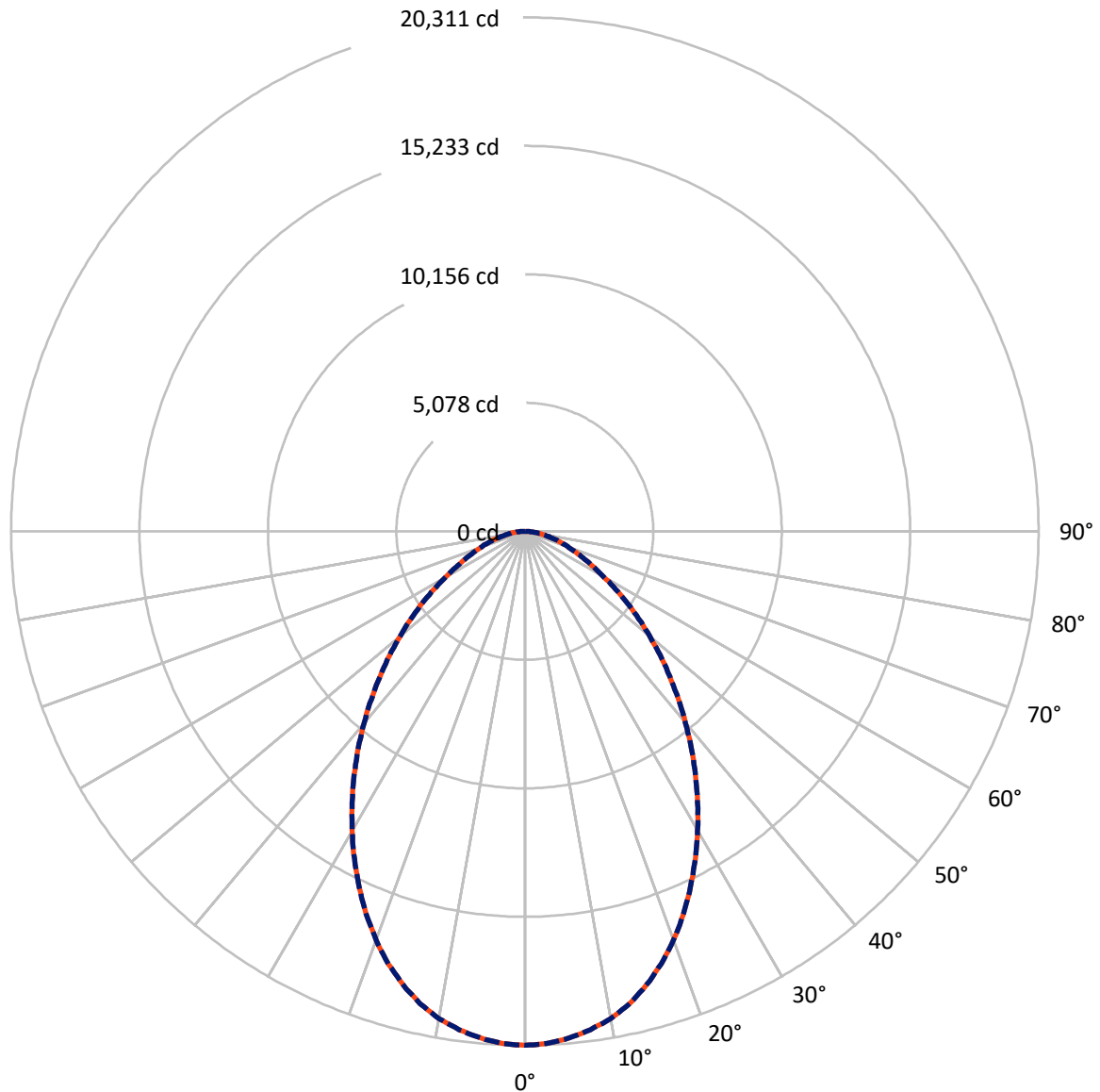
REPORT NUMBER: P624065
CATALOG NUMBER: IFLD-L-SA7C-830-U-77

Lumen Table



REPORT NUMBER: P624065
CATALOG NUMBER: IFLD-L-SA7C-830-U-77

Luminous Intensity Polar Plot

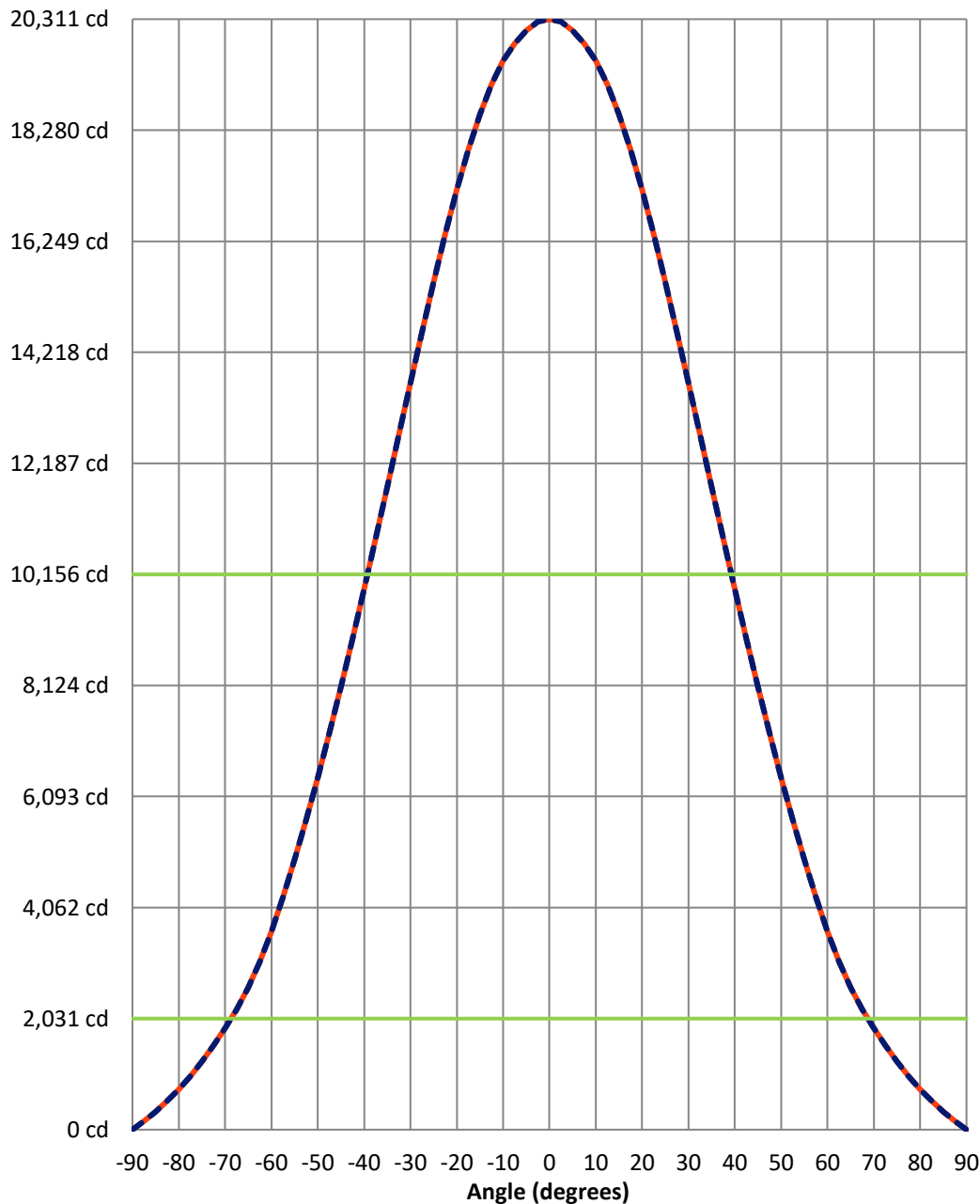


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624065

CATALOG NUMBER: IFLD-L-SA7C-830-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 15823.7
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 25910.8
Efficiency: 70.9%

Spill:

Lumens: 10659.8
Efficiency: 29.1%

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



REPORT NUMBER: P624065

CATALOG NUMBER: IFLD-L-SA7C-830-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°	156.3	156.3	156.3	156.3	156.3	156.3	156.3	148.7	148.7	144.9	141.1
85°	327.9	327.9	327.9	327.9	327.9	320.3	316.5	312.7	308.8	301.2	297.4
82.5°	526.2	526.2	526.2	526.2	518.5	510.9	507.1	499.5	491.9	480.4	469.0
80°	735.9	735.9	735.9	735.9	724.4	716.8	705.4	697.8	686.3	671.1	655.8
77.5°	976.1	976.1	976.1	964.7	957.0	945.6	934.1	918.9	903.6	884.6	861.7
75°	1246.8	1246.8	1246.8	1231.6	1220.1	1208.7	1189.6	1170.5	1147.7	1121.0	1090.5
72.5°	1540.4	1540.4	1540.4	1521.3	1509.9	1490.8	1467.9	1441.3	1414.6	1380.3	1342.1
70°	1856.9	1856.9	1856.9	1834.0	1814.9	1795.9	1765.4	1734.8	1696.7	1658.6	1612.8
67.5°	2200.0	2200.0	2200.0	2173.3	2150.5	2123.8	2089.4	2051.3	2005.6	1952.2	1898.8
65°	2600.4	2600.4	2585.1	2562.2	2535.5	2497.4	2455.5	2402.1	2344.9	2276.3	2203.8
62.5°	3073.2	3073.2	3050.3	3023.6	2989.3	2939.7	2882.5	2813.9	2733.8	2646.1	2558.4
60°	3622.2	3622.2	3595.5	3561.2	3511.6	3450.6	3374.4	3286.7	3187.5	3077.0	2970.2
57.5°	4255.1	4255.1	4220.8	4175.1	4114.1	4037.8	3942.5	3831.9	3706.1	3568.8	3435.4
55°	4941.5	4941.5	4899.5	4846.1	4773.7	4682.2	4567.8	4438.2	4285.6	4129.3	3957.7
52.5°	5669.7	5669.7	5620.1	5559.1	5475.3	5368.5	5238.9	5086.3	4911.0	4727.9	4525.9
50°	6436.1	6436.1	6378.9	6310.3	6215.0	6089.1	5940.4	5765.0	5570.6	5357.1	5124.5
47.5°	7255.9	7255.9	7191.0	7111.0	6996.6	6851.7	6676.3	6474.2	6253.1	6012.9	5749.8
45°	8098.5	8098.5	8026.1	7934.6	7808.7	7644.8	7450.3	7255.9	6973.7	6695.4	6390.3
42.5°	8975.5	8975.5	8891.6	8788.6	8643.7	8464.5	8243.4	7991.7	7713.4	7400.8	7069.0
40°	9886.7	9886.7	9791.4	9673.2	9513.1	9307.2	9059.3	8777.2	8464.5	8117.6	7751.5
37.5°	10817.1	10817.1	10710.3	10580.7	10401.5	10172.7	9894.4	9581.7	9230.9	8845.8	8441.7
35°	11755.0	11755.0	11636.8	11495.8	11297.5	11045.8	10744.6	10397.7	10008.7	9589.3	9135.6
32.5°	12712.1	12712.1	12582.4	12422.3	12197.3	11919.0	11587.3	11209.8	10817.1	10329.0	9833.4
30°	13657.6	13657.6	13516.6	13341.2	13101.0	12795.9	12433.7	12018.1	11556.8	11057.3	10523.5
27.5°	14588.0	14549.9	14431.7	14244.8	13981.7	13657.6	13264.9	12815.0	12315.5	11766.5	11194.5
25°	15503.1	15461.1	15331.5	15125.6	14843.4	14488.9	14065.6	13585.2	13047.6	12468.0	11842.7
22.5°	16380.0	16334.3	16197.0	15975.9	15674.6	15289.6	14835.8	14321.1	13749.2	13127.7	12468.0
20°	17192.2	17142.6	17001.5	16768.9	16456.3	16048.3	15567.9	15015.0	14405.0	13749.2	13047.6
17.5°	17924.2	17874.7	17726.0	17485.8	17192.2	16738.4	16242.8	15659.4	15015.0	14321.1	13585.2
15°	18568.6	18515.2	18362.7	18122.5	17787.0	17359.9	16837.6	16242.8	15567.9	14835.8	14065.6
12.5°	19117.7	19064.3	18908.0	18667.7	18320.8	17893.7	17359.9	16738.4	16048.3	15289.6	14488.9
10°	19552.3	19498.9	19350.2	19121.5	18763.1	18320.8	17787.0	17192.2	16456.3	15674.6	14843.4
7.5°	19865.0	19815.4	19678.1	19449.4	19121.5	18667.7	18122.5	17485.8	16768.9	15975.9	15125.6
5°	20101.4	20044.2	19906.9	19678.1	19350.2	18908.0	18362.7	17726.0	17001.5	16197.0	15331.5
2.5°	20265.3	20196.7	20044.2	19815.4	19498.9	19064.3	18515.2	17874.7	17142.6	16334.3	15461.1
0°	20311.1	20265.3	20101.4	19865.0	19552.3	19117.7	18568.6	17924.2	17192.2	16380.0	15503.1

REPORT NUMBER: P624065

CATALOG NUMBER: IFLD-L-SA7C-830-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°	137.3	137.3	133.4	129.6	125.8	118.2	114.4	110.6	106.8	99.1	95.3
85°	289.8	282.2	274.5	266.9	255.5	247.8	236.4	228.8	217.3	205.9	194.5
82.5°	457.5	446.1	430.9	419.4	404.2	385.1	369.8	350.8	331.7	316.5	297.4
80°	640.6	621.5	602.4	583.4	560.5	537.6	514.7	491.9	465.2	438.5	411.8
77.5°	838.8	812.1	785.4	754.9	728.3	697.8	667.2	636.7	602.4	568.1	533.8
75°	1060.0	1025.7	987.5	949.4	915.1	873.1	831.2	789.3	743.5	701.6	655.8
72.5°	1300.2	1258.2	1212.5	1166.7	1117.2	1063.8	1010.4	953.2	899.8	846.5	789.3
70°	1559.5	1509.9	1452.7	1395.5	1334.5	1269.7	1204.9	1136.2	1067.6	999.0	930.3
67.5°	1837.8	1776.8	1708.2	1639.5	1563.3	1487.0	1410.8	1330.7	1246.8	1162.9	1082.9
65°	2135.2	2058.9	1978.9	1891.2	1803.5	1715.8	1624.3	1529.0	1433.6	1334.5	1246.8
62.5°	2466.9	2371.6	2268.6	2161.9	2062.8	1956.0	1856.9	1738.7	1624.3	1513.7	1403.1
60°	2852.0	2726.2	2600.4	2466.9	2341.1	2203.8	2081.8	1952.2	1822.5	1696.7	1567.1
57.5°	3282.9	3122.7	2970.2	2810.1	2642.3	2489.8	2333.5	2177.1	2032.3	1883.6	1742.5
55°	3770.9	3576.5	3385.8	3187.5	2993.1	2802.4	2604.2	2428.8	2249.6	2081.8	1917.9
52.5°	4304.7	4083.6	3847.2	3622.2	3374.4	3138.0	2916.8	2695.7	2486.0	2283.9	2097.1
50°	4876.6	4617.4	4346.7	4072.1	3790.0	3511.6	3244.7	2985.5	2741.4	2505.0	2283.9
47.5°	5471.4	5177.9	4869.0	4556.4	4255.1	3915.8	3595.5	3301.9	3008.3	2741.4	2486.0
45°	6081.5	5749.8	5410.4	5055.8	4701.3	4335.2	3980.6	3622.2	3301.9	2985.5	2695.7
42.5°	6710.6	6337.0	5959.5	5566.8	5174.0	4773.7	4373.3	3980.6	3595.5	3244.7	2916.8
40°	7358.8	6947.0	6516.2	6089.1	5669.7	5212.2	4773.7	4335.2	3915.8	3511.6	3138.0
37.5°	8007.0	7557.1	7091.9	6611.5	6131.1	5669.7	5174.0	4701.3	4255.1	3790.0	3374.4
35°	8659.0	8163.3	7660.0	7137.7	6611.5	6089.1	5566.8	5055.8	4556.4	4072.1	3622.2
32.5°	9314.8	8773.4	8216.7	7660.0	7091.9	6516.2	5959.5	5410.4	4869.0	4346.7	3847.2
30°	9959.2	9372.0	8773.4	8163.3	7557.1	6947.0	6337.0	5749.8	5177.9	4617.4	4083.6
27.5°	10588.3	9959.2	9314.8	8659.0	8007.0	7358.8	6710.6	6081.5	5471.4	4876.6	4304.7
25°	11194.5	10523.5	9833.4	9135.6	8441.7	7751.5	7069.0	6390.3	5749.8	5124.5	4525.9
22.5°	11766.5	11057.3	10329.0	9589.3	8845.8	8117.6	7400.8	6695.4	6012.9	5357.1	4727.9
20°	12315.5	11556.8	10817.1	10008.7	9230.9	8464.5	7713.4	6973.7	6253.1	5570.6	4911.0
17.5°	12815.0	12018.1	11209.8	10397.7	9581.7	8777.2	7991.7	7255.9	6474.2	5765.0	5086.3
15°	13264.9	12433.7	11587.3	10744.6	9894.4	9059.3	8243.4	7450.3	6676.3	5940.4	5238.9
12.5°	13657.6	12795.9	11919.0	11045.8	10172.7	9307.2	8464.5	7644.8	6851.7	6089.1	5368.5
10°	13981.7	13101.0	12197.3	11297.5	10401.5	9513.1	8643.7	7808.7	6996.6	6215.0	5475.3
7.5°	14244.8	13341.2	12422.3	11495.8	10580.7	9673.2	8788.6	7934.6	7111.0	6310.3	5559.1
5°	14431.7	13516.6	12582.4	11636.8	10710.3	9791.4	8891.6	8026.1	7191.0	6378.9	5620.1
2.5°	14549.9	13657.6	12712.1	11755.0	10817.1	9886.7	8975.5	8098.5	7255.9	6436.1	5669.7
0°	14588.0	13657.6	12712.1	11755.0	10817.1	9886.7	8975.5	8098.5	7255.9	6436.1	5669.7

REPORT NUMBER: P624065

CATALOG NUMBER: IFLD-L-SA7C-830-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°	91.5	83.9	76.3	72.4	64.8	61.0	53.4	45.8	41.9	34.3	26.7
85°	183.0	167.8	156.3	144.9	133.4	118.2	106.8	95.3	80.1	68.6	53.4
82.5°	278.3	259.3	240.2	221.1	202.1	183.0	160.1	141.1	122.0	102.9	80.1
80°	385.1	354.6	327.9	301.2	274.5	247.8	217.3	190.6	160.1	133.4	106.8
77.5°	495.7	461.4	423.2	385.1	347.0	312.7	274.5	240.2	205.9	167.8	133.4
75°	613.9	568.1	526.2	476.6	430.9	381.3	335.5	289.8	247.8	205.9	160.1
72.5°	735.9	678.7	621.5	568.1	510.9	453.7	400.3	343.2	289.8	240.2	190.6
70°	861.7	793.1	724.4	659.6	594.8	526.2	465.2	400.3	335.5	274.5	217.3
67.5°	995.2	915.1	835.0	751.1	678.7	602.4	526.2	453.7	381.3	312.7	247.8
65°	1140.0	1044.7	945.6	857.9	762.6	678.7	594.8	510.9	430.9	347.0	274.5
62.5°	1288.7	1178.2	1067.6	957.0	857.9	751.1	659.6	568.1	476.6	385.1	301.2
60°	1441.3	1315.4	1189.6	1067.6	945.6	835.0	724.4	621.5	526.2	423.2	327.9
57.5°	1597.6	1456.5	1315.4	1178.2	1044.7	915.1	793.1	678.7	568.1	461.4	354.6
55°	1757.7	1597.6	1441.3	1288.7	1140.0	995.2	861.7	735.9	613.9	495.7	385.1
52.5°	1917.9	1742.5	1567.1	1403.1	1246.8	1082.9	930.3	789.3	655.8	533.8	411.8
50°	2081.8	1883.6	1696.7	1513.7	1334.5	1162.9	999.0	846.5	701.6	568.1	438.5
47.5°	2249.6	2032.3	1822.5	1624.3	1433.6	1246.8	1067.6	899.8	743.5	602.4	465.2
45°	2428.8	2177.1	1952.2	1738.7	1529.0	1330.7	1136.2	953.2	789.3	636.7	491.9
42.5°	2604.2	2333.5	2081.8	1856.9	1624.3	1410.8	1204.9	1010.4	831.2	667.2	514.7
40°	2802.4	2489.8	2203.8	1956.0	1715.8	1487.0	1269.7	1063.8	873.1	697.8	537.6
37.5°	2993.1	2642.3	2341.1	2062.8	1803.5	1563.3	1334.5	1117.2	915.1	728.3	560.5
35°	3187.5	2810.1	2466.9	2161.9	1891.2	1639.5	1395.5	1166.7	949.4	754.9	583.4
32.5°	3385.8	2970.2	2600.4	2268.6	1978.9	1708.2	1452.7	1212.5	987.5	785.4	602.4
30°	3576.5	3122.7	2726.2	2371.6	2058.9	1776.8	1509.9	1258.2	1025.7	812.1	621.5
27.5°	3770.9	3282.9	2852.0	2466.9	2135.2	1837.8	1559.5	1300.2	1060.0	838.8	640.6
25°	3957.7	3435.4	2970.2	2558.4	2203.8	1898.8	1612.8	1342.1	1090.5	861.7	655.8
22.5°	4129.3	3568.8	3077.0	2646.1	2276.3	1952.2	1658.6	1380.3	1121.0	884.6	671.1
20°	4285.6	3706.1	3187.5	2733.8	2344.9	2005.6	1696.7	1414.6	1147.7	903.6	686.3
17.5°	4438.2	3831.9	3286.7	2813.9	2402.1	2051.3	1734.8	1441.3	1170.5	918.9	697.8
15°	4567.8	3942.5	3374.4	2882.5	2455.5	2089.4	1765.4	1467.9	1189.6	934.1	705.4
12.5°	4682.2	4037.8	3450.6	2939.7	2497.4	2123.8	1795.9	1490.8	1208.7	945.6	716.8
10°	4773.7	4114.1	3511.6	2989.3	2535.5	2150.5	1814.9	1509.9	1220.1	957.0	724.4
7.5°	4846.1	4175.1	3561.2	3023.6	2562.2	2173.3	1834.0	1521.3	1231.6	964.7	735.9
5°	4899.5	4220.8	3595.5	3050.3	2585.1	2200.0	1856.9	1540.4	1246.8	976.1	735.9
2.5°	4941.5	4255.1	3622.2	3073.2	2600.4	2200.0	1856.9	1540.4	1246.8	976.1	735.9
0°	4941.5	4255.1	3622.2	3073.2	2600.4	2200.0	1856.9	1540.4	1246.8	976.1	735.9

REPORT NUMBER: P624065

CATALOG NUMBER: IFLD-L-SA7C-830-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.1	15.3	7.6	0.0
85°	41.9	26.7	15.3	0.0
82.5°	61.0	41.9	19.1	0.0
80°	80.1	53.4	26.7	0.0
77.5°	102.9	68.6	34.3	0.0
75°	122.0	80.1	41.9	0.0
72.5°	141.1	95.3	45.8	0.0
70°	160.1	106.8	53.4	0.0
67.5°	183.0	118.2	61.0	0.0
65°	202.1	133.4	64.8	0.0
62.5°	221.1	144.9	72.4	0.0
60°	240.2	156.3	76.3	0.0
57.5°	259.3	167.8	83.9	0.0
55°	278.3	183.0	91.5	0.0
52.5°	297.4	194.5	95.3	0.0
50°	316.5	205.9	99.1	0.0
47.5°	331.7	217.3	106.8	0.0
45°	350.8	228.8	110.6	0.0
42.5°	369.8	236.4	114.4	0.0
40°	385.1	247.8	118.2	0.0
37.5°	404.2	255.5	125.8	0.0
35°	419.4	266.9	129.6	0.0
32.5°	430.9	274.5	133.4	0.0
30°	446.1	282.2	137.3	0.0
27.5°	457.5	289.8	137.3	0.0
25°	469.0	297.4	141.1	0.0
22.5°	480.4	301.2	144.9	0.0
20°	491.9	308.8	148.7	0.0
17.5°	499.5	312.7	148.7	0.0
15°	507.1	316.5	156.3	0.0
12.5°	510.9	320.3	156.3	0.0
10°	518.5	327.9	156.3	0.0
7.5°	526.2	327.9	156.3	0.0
5°	526.2	327.9	156.3	0.0
2.5°	526.2	327.9	156.3	0.0
0°	526.2	327.9	156.3	0.0

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