

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: P624056

Luminaire Tested: **IFLD-S-SA6D-830-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624056
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-77
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

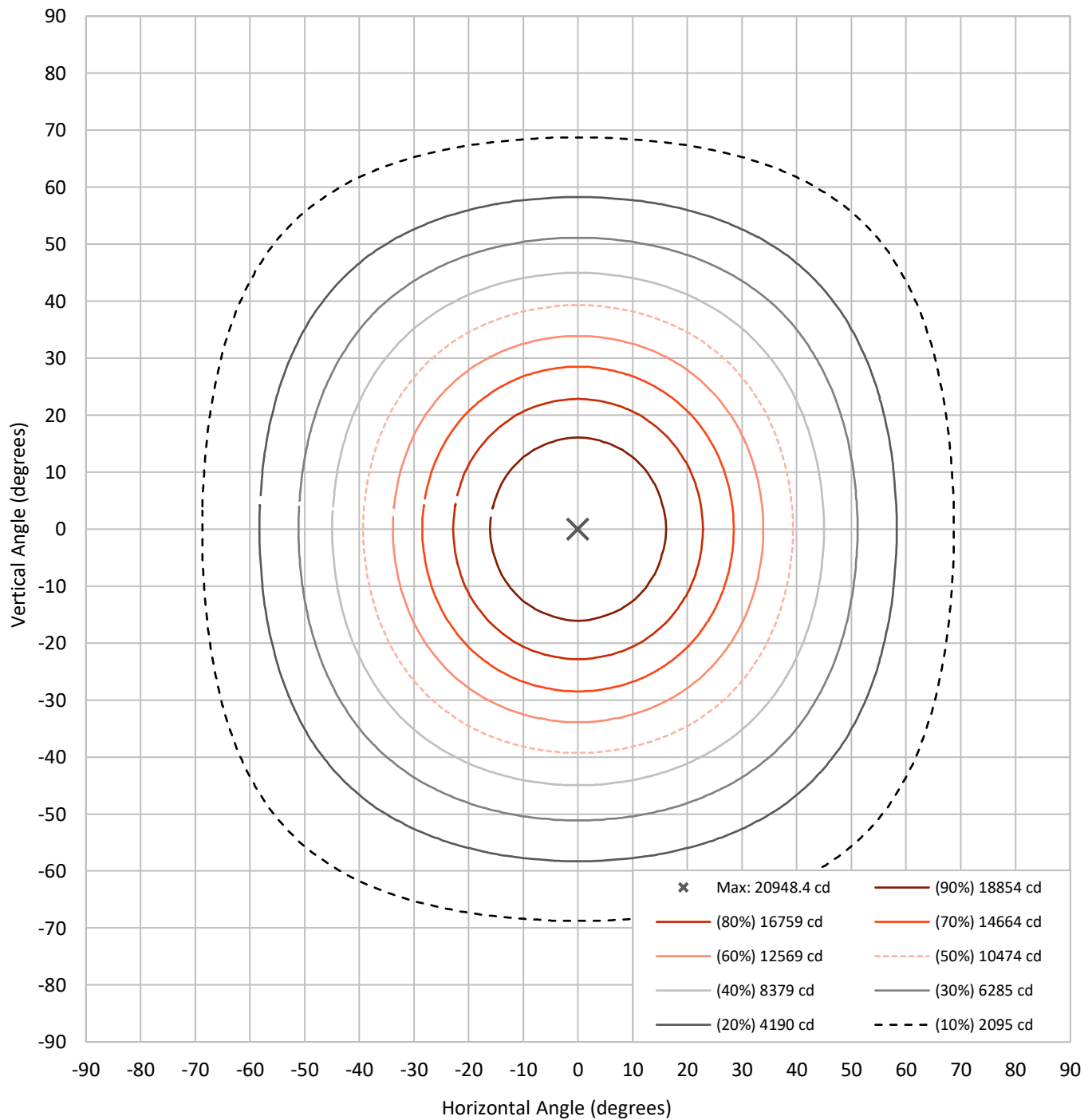
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37718 lumens	Max Intensity:	20948.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	102.4 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	16320.2 lumens	Field Lumens:	26723.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%
Input Watts (W):	368.2		
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: P624056

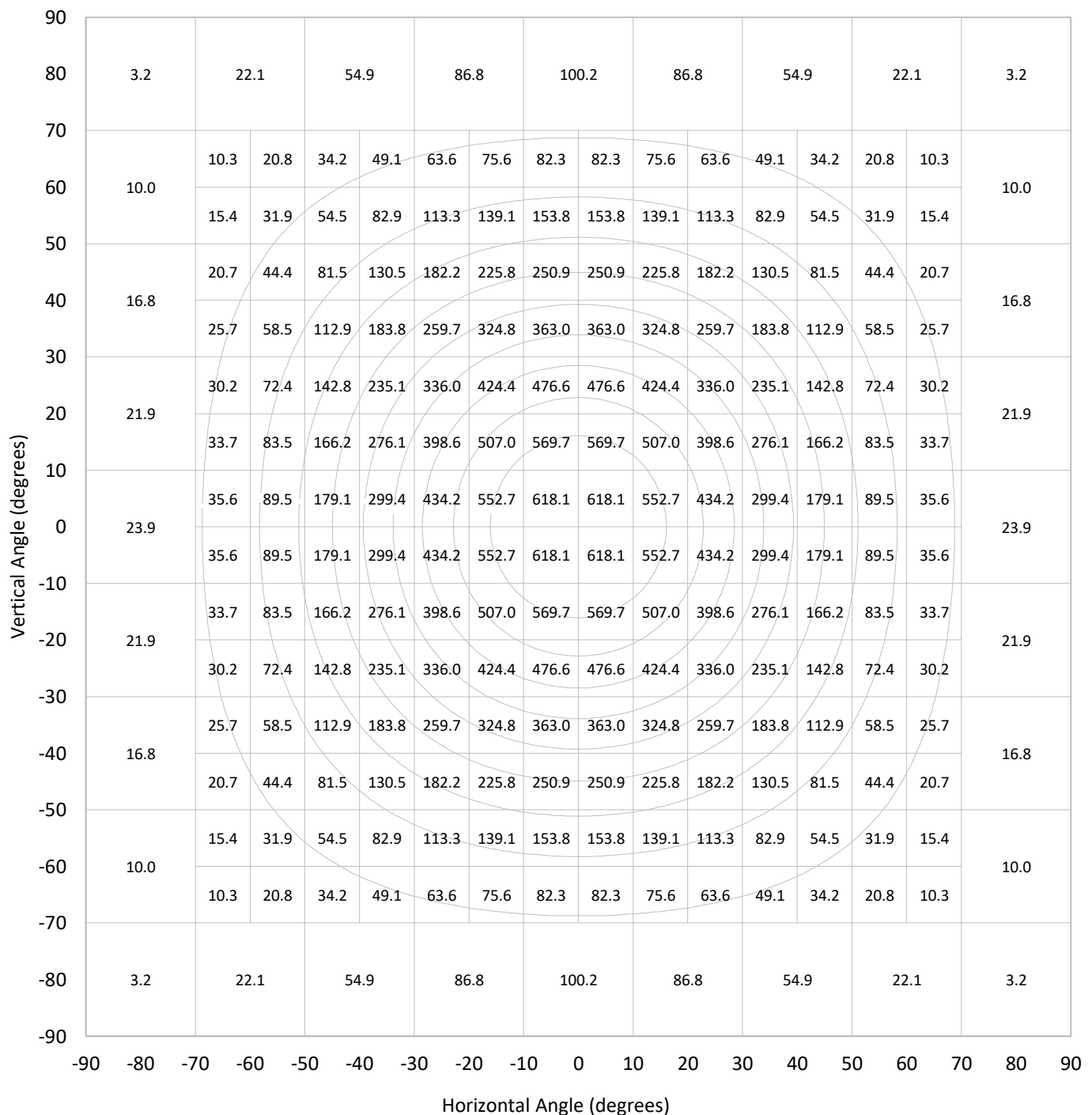
CATALOG NUMBER: IFLD-S-SA6D-830-U-77

Iso-Candela Plot



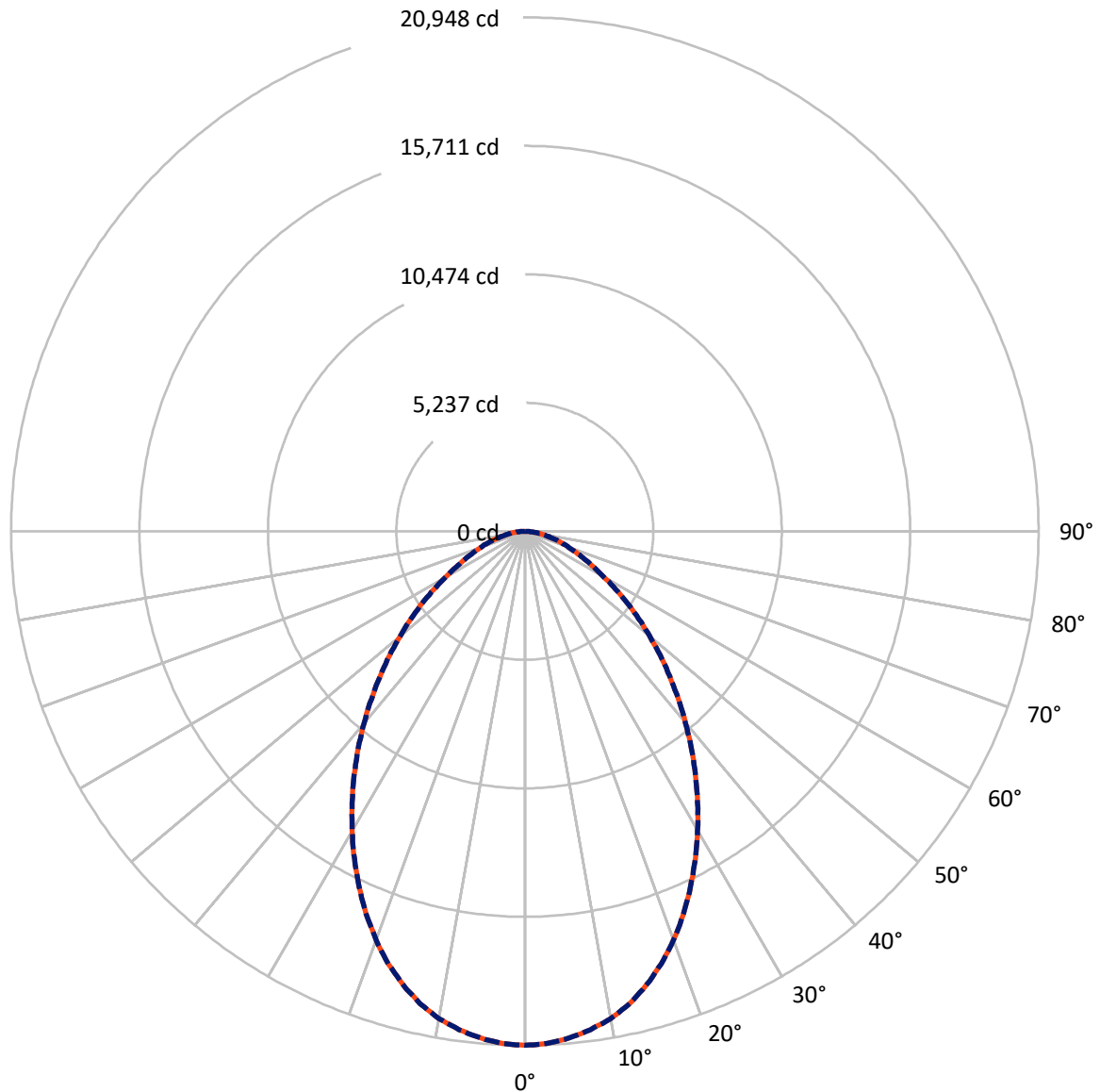
REPORT NUMBER: P624056
CATALOG NUMBER: IFLD-S-SA6D-830-U-77

Lumen Table



REPORT NUMBER: P624056
CATALOG NUMBER: IFLD-S-SA6D-830-U-77

Luminous Intensity Polar Plot

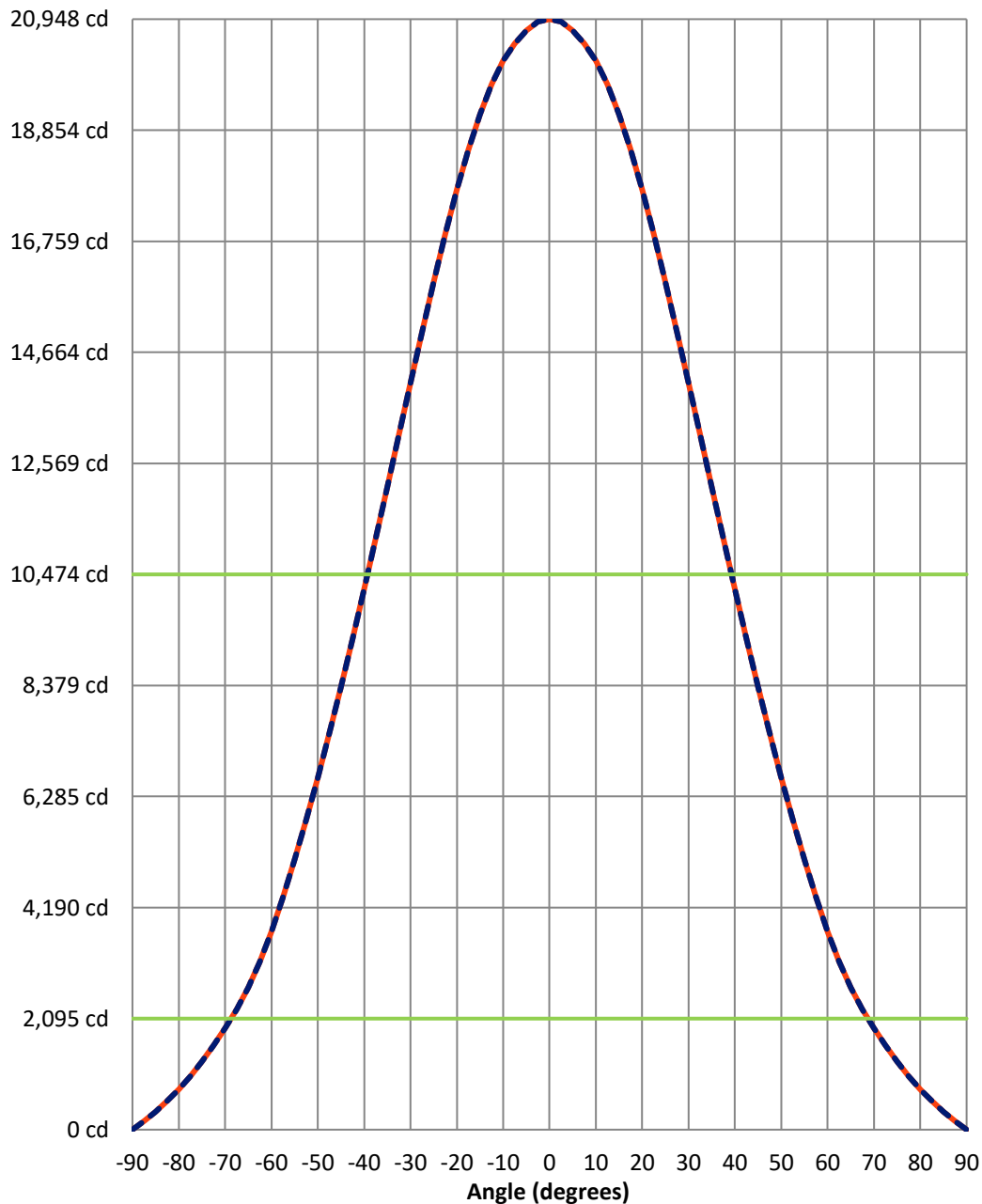


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P624056

CATALOG NUMBER: IFLD-S-SA6D-830-U-77

Luminous Intensity Plot



Beam:

H Angle: 78.6°
V Angle: 78.6°
Lumens: 16320.2
Efficiency: 43.3%

Field:

H Angle: 137.5°
V Angle: 137.5°
Lumens: 26723.8
Efficiency: 70.9%

Spill:

Lumens: 10994.2
Efficiency: 29.1%

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

REPORT NUMBER: P624056

CATALOG NUMBER: IFLD-S-SA6D-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°	161.2	161.2	161.2	161.2	161.2	161.2	161.2	153.4	153.4	149.4	145.5
85°	338.2	338.2	338.2	338.2	338.2	330.3	326.4	322.5	318.5	310.7	306.7
82.5°	542.7	542.7	542.7	542.7	534.8	527.0	523.0	515.2	507.3	495.5	483.7
80°	759.0	759.0	759.0	759.0	747.2	739.3	727.5	719.6	707.8	692.1	676.4
77.5°	1006.7	1006.7	1006.7	994.9	987.1	975.3	963.5	947.7	932.0	912.3	888.7
75°	1285.9	1285.9	1285.9	1270.2	1258.4	1246.6	1226.9	1207.3	1183.7	1156.2	1124.7
72.5°	1588.7	1588.7	1588.7	1569.1	1557.3	1537.6	1514.0	1486.5	1459.0	1423.6	1384.2
70°	1915.1	1915.1	1915.1	1891.5	1871.9	1852.2	1820.7	1789.3	1750.0	1710.6	1663.4
67.5°	2269.0	2269.0	2269.0	2241.5	2217.9	2190.4	2155.0	2115.7	2068.5	2013.4	1958.4
65°	2682.0	2682.0	2666.2	2642.6	2615.1	2575.8	2532.5	2477.5	2418.5	2347.7	2273.0
62.5°	3169.6	3169.6	3146.0	3118.5	3083.1	3032.0	2973.0	2902.2	2819.6	2729.1	2638.7
60°	3735.9	3735.9	3708.3	3672.9	3621.8	3558.9	3480.3	3389.8	3287.6	3173.5	3063.4
57.5°	4388.7	4388.7	4353.3	4306.1	4243.2	4164.5	4066.2	3952.2	3822.4	3680.8	3543.2
55°	5096.5	5096.5	5053.3	4998.2	4923.5	4829.1	4711.1	4577.4	4420.1	4258.9	4081.9
52.5°	5847.6	5847.6	5796.5	5733.6	5647.1	5536.9	5403.2	5245.9	5065.1	4876.3	4667.9
50°	6638.0	6638.0	6579.1	6508.3	6410.0	6280.2	6126.8	5945.9	5745.4	5525.2	5285.3
47.5°	7483.5	7483.5	7416.7	7334.1	7216.1	7066.7	6885.8	6677.4	6449.3	6201.5	5930.2
45°	8352.6	8352.6	8277.9	8183.5	8053.7	7884.6	7684.1	7483.5	7192.5	6905.5	6590.9
42.5°	9257.1	9257.1	9170.6	9064.4	8915.0	8730.1	8502.0	8242.5	7955.4	7633.0	7290.8
40°	10197.0	10197.0	10098.6	9976.7	9811.6	9599.2	9343.6	9052.6	8730.1	8372.3	7994.8
37.5°	11156.5	11156.5	11046.4	10912.7	10727.8	10491.9	10204.8	9882.4	9520.6	9123.4	8706.5
35°	12123.9	12123.9	12002.0	11856.5	11652.0	11392.4	11081.8	10723.9	10322.8	9890.2	9422.3
32.5°	13110.9	13110.9	12977.2	12812.1	12580.0	12293.0	11950.8	11561.5	11156.5	10653.1	10141.9
30°	14086.2	14086.2	13940.7	13759.8	13512.0	13197.4	12823.9	12395.2	11919.4	11404.2	10853.7
27.5°	15045.7	15006.4	14884.5	14691.8	14420.5	14086.2	13681.1	13217.1	12702.0	12135.7	11545.8
25°	15989.5	15946.3	15812.6	15600.2	15309.2	14943.5	14507.0	14011.5	13457.0	12859.3	12214.3
22.5°	16894.0	16846.8	16705.2	16477.1	16166.5	15769.3	15301.3	14770.4	14180.6	13539.6	12859.3
20°	17731.6	17680.5	17535.0	17295.1	16972.6	16551.9	16056.4	15486.2	14857.0	14180.6	13457.0
17.5°	18486.6	18435.5	18282.2	18034.4	17731.6	17263.6	16752.4	16150.7	15486.2	14770.4	14011.5
15°	19151.2	19096.2	18938.9	18691.1	18345.1	17904.6	17365.9	16752.4	16056.4	15301.3	14507.0
12.5°	19717.5	19662.5	19501.2	19253.5	18895.6	18455.2	17904.6	17263.6	16551.9	15769.3	14943.5
10°	20165.8	20110.8	19957.4	19721.5	19351.8	18895.6	18345.1	17731.6	16972.6	16166.5	15309.2
7.5°	20488.3	20437.2	20295.6	20059.6	19721.5	19253.5	18691.1	18034.4	17295.1	16477.1	15600.2
5°	20732.1	20673.1	20531.5	20295.6	19957.4	19501.2	18938.9	18282.2	17535.0	16705.2	15812.6
2.5°	20901.2	20830.4	20673.1	20437.2	20110.8	19662.5	19096.2	18435.5	17680.5	16846.8	15946.3
0°	20948.4	20901.2	20732.1	20488.3	20165.8	19717.5	19151.2	18486.6	17731.6	16894.0	15989.5

REPORT NUMBER: P624056

CATALOG NUMBER: IFLD-S-SA6D-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°	141.6	141.6	137.6	133.7	129.8	121.9	118.0	114.0	110.1	102.2	98.3
85°	298.9	291.0	283.1	275.3	263.5	255.6	243.8	235.9	224.2	212.4	200.6
82.5°	471.9	460.1	444.4	432.6	416.8	397.2	381.5	361.8	342.1	326.4	306.7
80°	660.7	641.0	621.3	601.7	578.1	554.5	530.9	507.3	479.8	452.2	424.7
77.5°	865.1	837.6	810.1	778.6	751.1	719.6	688.2	656.7	621.3	585.9	550.5
75°	1093.2	1057.8	1018.5	979.2	943.8	900.5	857.3	814.0	766.8	723.6	676.4
72.5°	1341.0	1297.7	1250.5	1203.3	1152.2	1097.2	1042.1	983.1	928.1	873.0	814.0
70°	1608.4	1557.3	1498.3	1439.3	1376.4	1309.5	1242.7	1171.9	1101.1	1030.3	959.5
67.5°	1895.5	1832.5	1761.8	1691.0	1612.3	1533.7	1455.0	1372.4	1285.9	1199.4	1116.8
65°	2202.2	2123.5	2041.0	1950.5	1860.1	1769.6	1675.2	1576.9	1478.6	1376.4	1285.9
62.5°	2544.3	2446.0	2339.8	2229.7	2127.5	2017.4	1915.1	1793.2	1675.2	1561.2	1447.2
60°	2941.5	2811.7	2682.0	2544.3	2414.6	2273.0	2147.1	2013.4	1879.7	1750.0	1616.3
57.5°	3385.9	3220.7	3063.4	2898.2	2725.2	2567.9	2406.7	2245.5	2096.0	1942.7	1797.1
55°	3889.2	3688.7	3492.1	3287.6	3087.0	2890.4	2685.9	2505.0	2320.2	2147.1	1978.0
52.5°	4439.8	4211.7	3967.9	3735.9	3480.3	3236.4	3008.4	2780.3	2564.0	2355.6	2162.9
50°	5029.7	4762.2	4483.0	4199.9	3908.9	3621.8	3346.6	3079.1	2827.5	2583.6	2355.6
47.5°	5643.1	5340.3	5021.8	4699.3	4388.7	4038.7	3708.3	3405.5	3102.7	2827.5	2564.0
45°	6272.3	5930.2	5580.2	5214.5	4848.8	4471.2	4105.5	3735.9	3405.5	3079.1	2780.3
42.5°	6921.2	6535.8	6146.5	5741.4	5336.4	4923.5	4510.6	4105.5	3708.3	3346.6	3008.4
40°	7589.7	7165.0	6720.6	6280.2	5847.6	5375.7	4923.5	4471.2	4038.7	3621.8	3236.4
37.5°	8258.2	7794.2	7314.4	6818.9	6323.4	5847.6	5336.4	4848.8	4388.7	3908.9	3480.3
35°	8930.7	8419.5	7900.4	7361.6	6818.9	6280.2	5741.4	5214.5	4699.3	4199.9	3735.9
32.5°	9607.1	9048.7	8474.5	7900.4	7314.4	6720.6	6146.5	5580.2	5021.8	4483.0	3967.9
30°	10271.7	9666.1	9048.7	8419.5	7794.2	7165.0	6535.8	5930.2	5340.3	4762.2	4211.7
27.5°	10920.5	10271.7	9607.1	8930.7	8258.2	7589.7	6921.2	6272.3	5643.1	5029.7	4439.8
25°	11545.8	10853.7	10141.9	9422.3	8706.5	7994.8	7290.8	6590.9	5930.2	5285.3	4667.9
22.5°	12135.7	11404.2	10653.1	9890.2	9123.4	8372.3	7633.0	6905.5	6201.5	5525.2	4876.3
20°	12702.0	11919.4	11156.5	10322.8	9520.6	8730.1	7955.4	7192.5	6449.3	5745.4	5065.1
17.5°	13217.1	12395.2	11561.5	10723.9	9882.4	9052.6	8242.5	7483.5	6677.4	5945.9	5245.9
15°	13681.1	12823.9	11950.8	11081.8	10204.8	9343.6	8502.0	7684.1	6885.8	6126.8	5403.2
12.5°	14086.2	13197.4	12293.0	11392.4	10491.9	9599.2	8730.1	7884.6	7066.7	6280.2	5536.9
10°	14420.5	13512.0	12580.0	11652.0	10727.8	9811.6	8915.0	8053.7	7216.1	6410.0	5647.1
7.5°	14691.8	13759.8	12812.1	11856.5	10912.7	9976.7	9064.4	8183.5	7334.1	6508.3	5733.6
5°	14884.5	13940.7	12977.2	12002.0	11046.4	10098.6	9170.6	8277.9	7416.7	6579.1	5796.5
2.5°	15006.4	14086.2	13110.9	12123.9	11156.5	10197.0	9257.1	8352.6	7483.5	6638.0	5847.6
0°	15045.7	14086.2	13110.9	12123.9	11156.5	10197.0	9257.1	8352.6	7483.5	6638.0	5847.6

REPORT NUMBER: P624056

CATALOG NUMBER: IFLD-S-SA6D-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°	94.4	86.5	78.6	74.7	66.9	62.9	55.1	47.2	43.3	35.4	27.5
85°	188.8	173.0	161.2	149.4	137.6	121.9	110.1	98.3	82.6	70.8	55.1
82.5°	287.1	267.4	247.7	228.1	208.4	188.8	165.2	145.5	125.8	106.2	82.6
80°	397.2	365.7	338.2	310.7	283.1	255.6	224.2	196.6	165.2	137.6	110.1
77.5°	511.2	475.8	436.5	397.2	357.9	322.5	283.1	247.7	212.4	173.0	137.6
75°	633.1	585.9	542.7	491.6	444.4	393.2	346.1	298.9	255.6	212.4	165.2
72.5°	759.0	700.0	641.0	585.9	527.0	468.0	412.9	353.9	298.9	247.7	196.6
70°	888.7	818.0	747.2	680.3	613.5	542.7	479.8	412.9	346.1	283.1	224.2
67.5°	1026.4	943.8	861.2	774.7	700.0	621.3	542.7	468.0	393.2	322.5	255.6
65°	1175.8	1077.5	975.3	884.8	786.5	700.0	613.5	527.0	444.4	357.9	283.1
62.5°	1329.2	1215.1	1101.1	987.1	884.8	774.7	680.3	585.9	491.6	397.2	310.7
60°	1486.5	1356.7	1226.9	1101.1	975.3	861.2	747.2	641.0	542.7	436.5	338.2
57.5°	1647.7	1502.2	1356.7	1215.1	1077.5	943.8	818.0	700.0	585.9	475.8	365.7
55°	1812.9	1647.7	1486.5	1329.2	1175.8	1026.4	888.7	759.0	633.1	511.2	397.2
52.5°	1978.0	1797.1	1616.3	1447.2	1285.9	1116.8	959.5	814.0	676.4	550.5	424.7
50°	2147.1	1942.7	1750.0	1561.2	1376.4	1199.4	1030.3	873.0	723.6	585.9	452.2
47.5°	2320.2	2096.0	1879.7	1675.2	1478.6	1285.9	1101.1	928.1	766.8	621.3	479.8
45°	2505.0	2245.5	2013.4	1793.2	1576.9	1372.4	1171.9	983.1	814.0	656.7	507.3
42.5°	2685.9	2406.7	2147.1	1915.1	1675.2	1455.0	1242.7	1042.1	857.3	688.2	530.9
40°	2890.4	2567.9	2273.0	2017.4	1769.6	1533.7	1309.5	1097.2	900.5	719.6	554.5
37.5°	3087.0	2725.2	2414.6	2127.5	1860.1	1612.3	1376.4	1152.2	943.8	751.1	578.1
35°	3287.6	2898.2	2544.3	2229.7	1950.5	1691.0	1439.3	1203.3	979.2	778.6	601.7
32.5°	3492.1	3063.4	2682.0	2339.8	2041.0	1761.8	1498.3	1250.5	1018.5	810.1	621.3
30°	3688.7	3220.7	2811.7	2446.0	2123.5	1832.5	1557.3	1297.7	1057.8	837.6	641.0
27.5°	3889.2	3385.9	2941.5	2544.3	2202.2	1895.5	1608.4	1341.0	1093.2	865.1	660.7
25°	4081.9	3543.2	3063.4	2638.7	2273.0	1958.4	1663.4	1384.2	1124.7	888.7	676.4
22.5°	4258.9	3680.8	3173.5	2729.1	2347.7	2013.4	1710.6	1423.6	1156.2	912.3	692.1
20°	4420.1	3822.4	3287.6	2819.6	2418.5	2068.5	1750.0	1459.0	1183.7	932.0	707.8
17.5°	4577.4	3952.2	3389.8	2902.2	2477.5	2115.7	1789.3	1486.5	1207.3	947.7	719.6
15°	4711.1	4066.2	3480.3	2973.0	2532.5	2155.0	1820.7	1514.0	1226.9	963.5	727.5
12.5°	4829.1	4164.5	3558.9	3032.0	2575.8	2190.4	1852.2	1537.6	1246.6	975.3	739.3
10°	4923.5	4243.2	3621.8	3083.1	2615.1	2217.9	1871.9	1557.3	1258.4	987.1	747.2
7.5°	4998.2	4306.1	3672.9	3118.5	2642.6	2241.5	1891.5	1569.1	1270.2	994.9	759.0
5°	5053.3	4353.3	3708.3	3146.0	2666.2	2269.0	1915.1	1588.7	1285.9	1006.7	759.0
2.5°	5096.5	4388.7	3735.9	3169.6	2682.0	2269.0	1915.1	1588.7	1285.9	1006.7	759.0
0°	5096.5	4388.7	3735.9	3169.6	2682.0	2269.0	1915.1	1588.7	1285.9	1006.7	759.0

REPORT NUMBER: P624056

CATALOG NUMBER: IFLD-S-SA6D-830-U-77

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.7	15.7	7.9	0.0
85°	43.3	27.5	15.7	0.0
82.5°	62.9	43.3	19.7	0.0
80°	82.6	55.1	27.5	0.0
77.5°	106.2	70.8	35.4	0.0
75°	125.8	82.6	43.3	0.0
72.5°	145.5	98.3	47.2	0.0
70°	165.2	110.1	55.1	0.0
67.5°	188.8	121.9	62.9	0.0
65°	208.4	137.6	66.9	0.0
62.5°	228.1	149.4	74.7	0.0
60°	247.7	161.2	78.6	0.0
57.5°	267.4	173.0	86.5	0.0
55°	287.1	188.8	94.4	0.0
52.5°	306.7	200.6	98.3	0.0
50°	326.4	212.4	102.2	0.0
47.5°	342.1	224.2	110.1	0.0
45°	361.8	235.9	114.0	0.0
42.5°	381.5	243.8	118.0	0.0
40°	397.2	255.6	121.9	0.0
37.5°	416.8	263.5	129.8	0.0
35°	432.6	275.3	133.7	0.0
32.5°	444.4	283.1	137.6	0.0
30°	460.1	291.0	141.6	0.0
27.5°	471.9	298.9	141.6	0.0
25°	483.7	306.7	145.5	0.0
22.5°	495.5	310.7	149.4	0.0
20°	507.3	318.5	153.4	0.0
17.5°	515.2	322.5	153.4	0.0
15°	523.0	326.4	161.2	0.0
12.5°	527.0	330.3	161.2	0.0
10°	534.8	338.2	161.2	0.0
7.5°	542.7	338.2	161.2	0.0
5°	542.7	338.2	161.2	0.0
2.5°	542.7	338.2	161.2	0.0
0°	542.7	338.2	161.2	0.0

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