

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: P628276

Luminaire Tested: **IFLD-S-SA6A-740-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628276  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-740-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

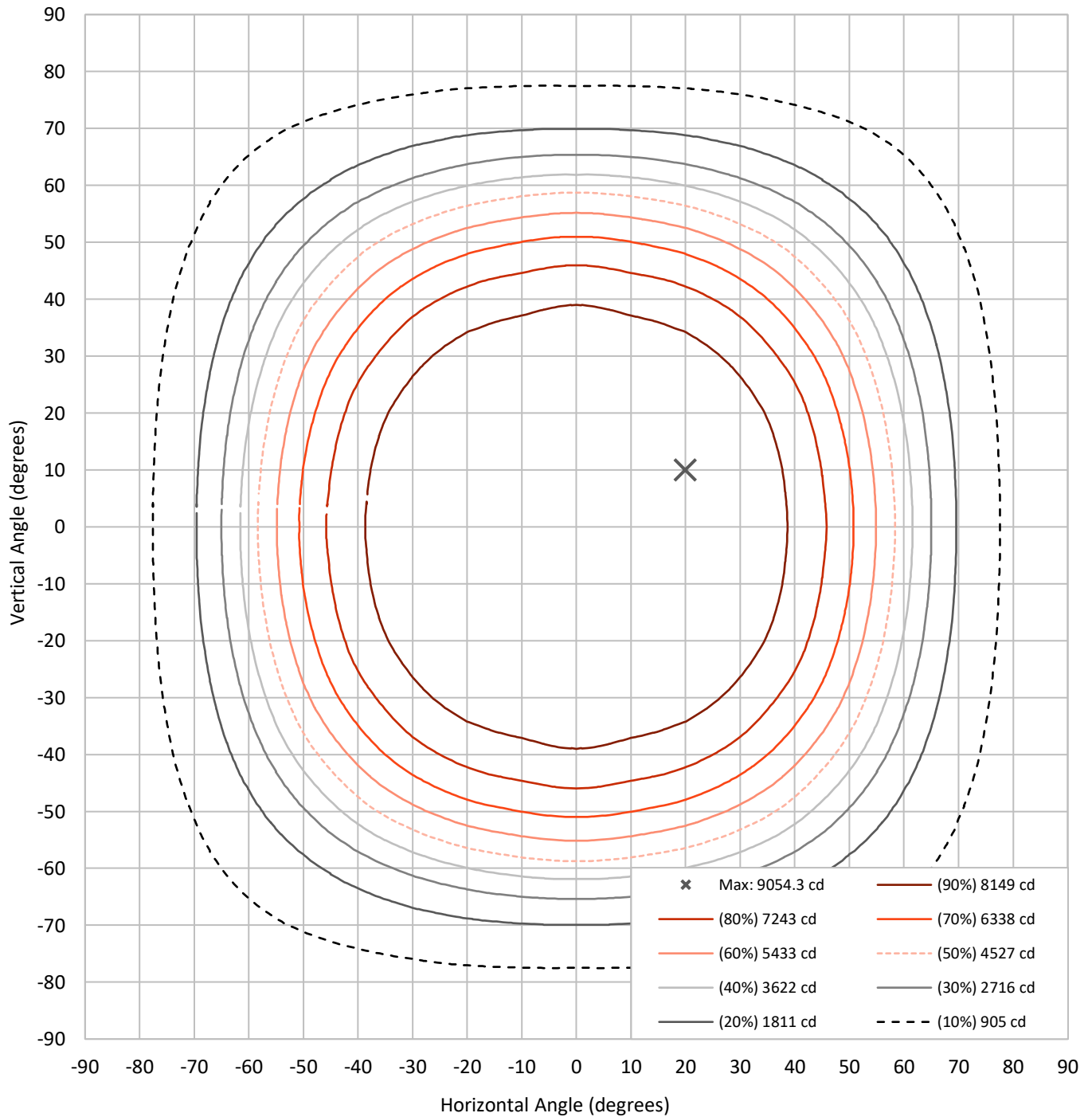
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	27777.3 lumens	Max Intensity:	9054.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	146.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	17044.7 lumens	Field Lumens:	20433.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 189.6  
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: P628276  
CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

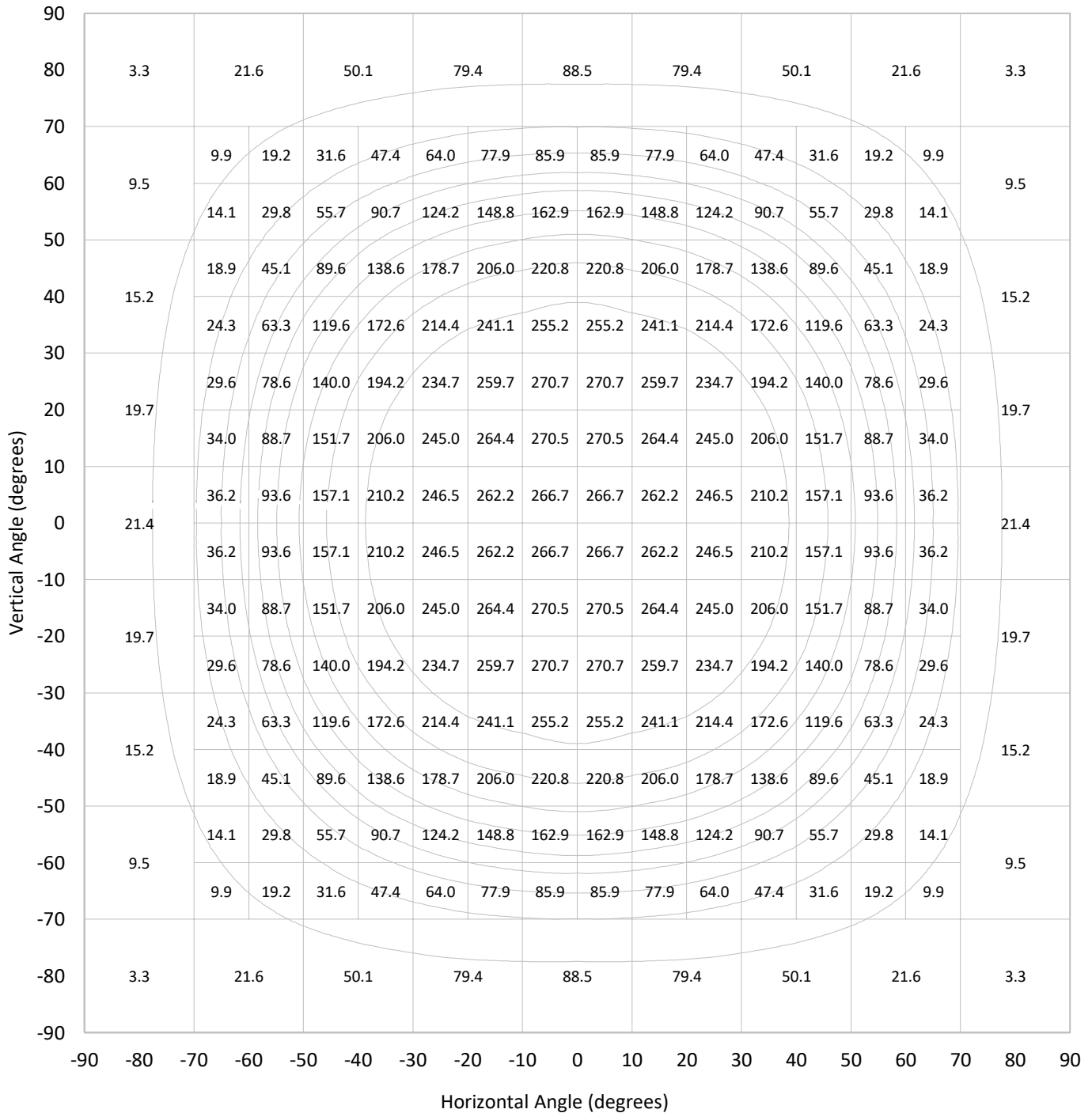
### Iso-Candela Plot





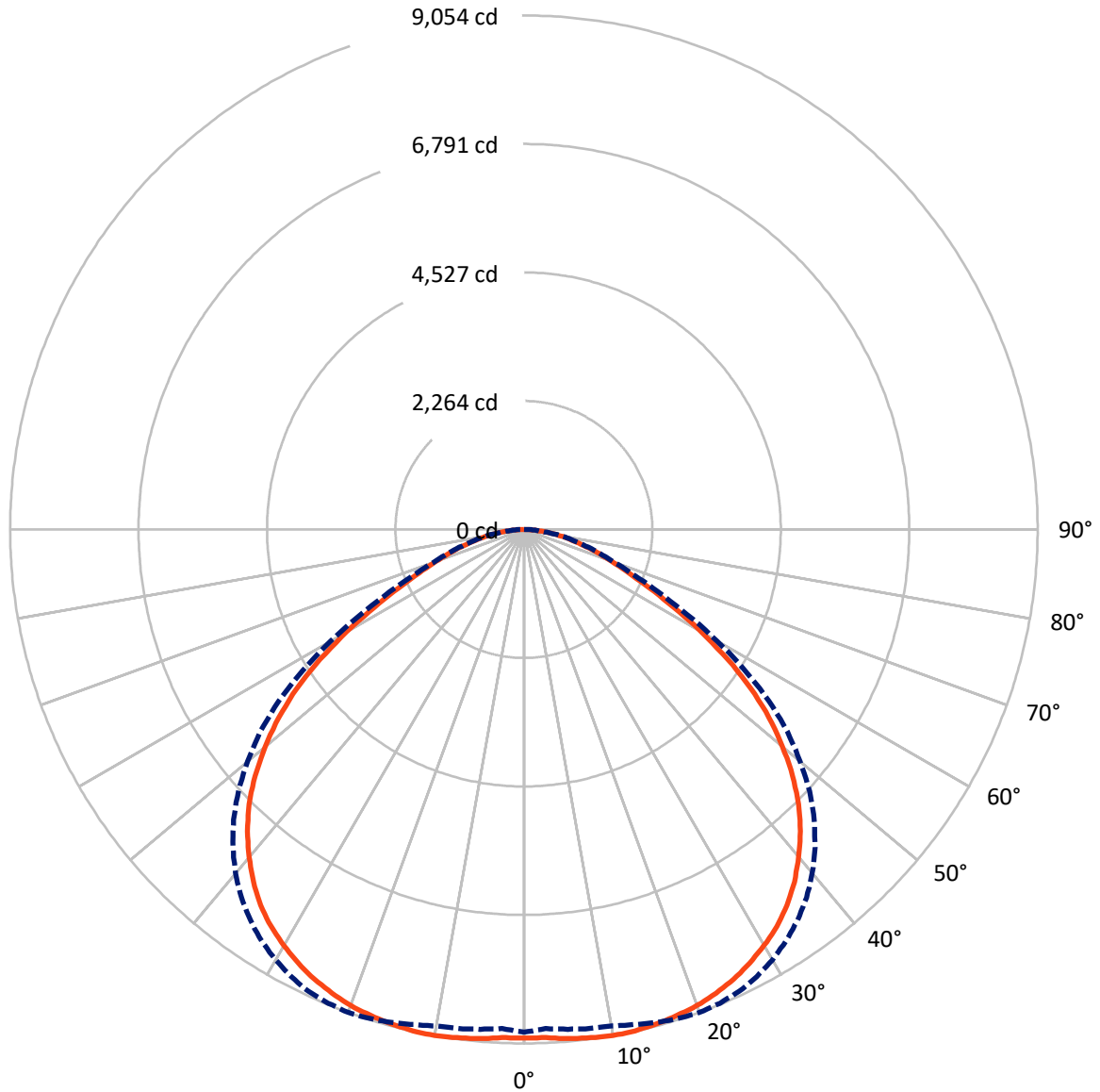
REPORT NUMBER: P628276  
 CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

### Lumen Table



REPORT NUMBER: P628276  
CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

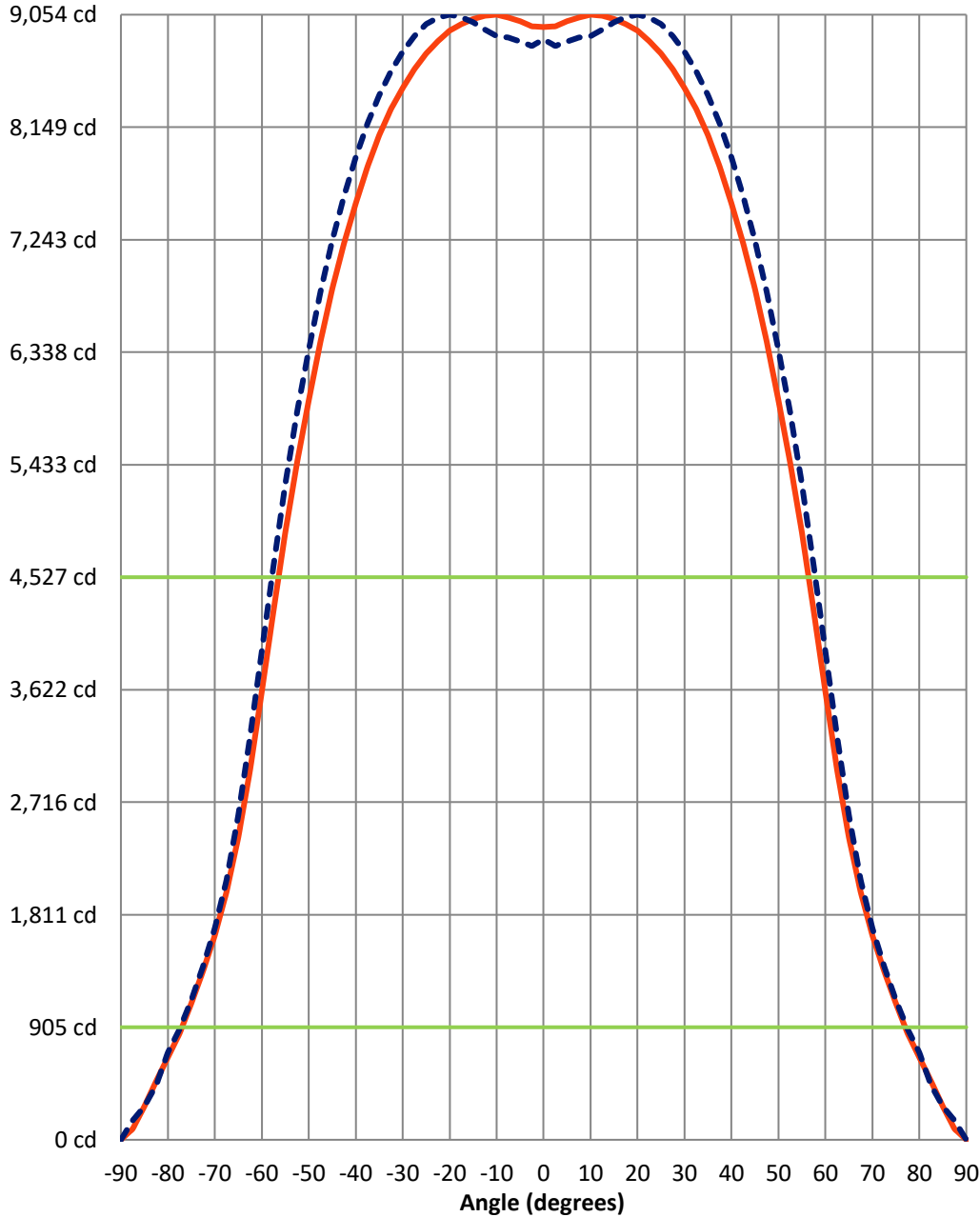
### Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg    - - - Horizontal Distribution Through 10-Deg

REPORT NUMBER: P628276  
 CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 17044.7  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 20433.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 7343.6  
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



REPORT NUMBER: P628276  
 CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

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°	73.1	78.9	81.8	84.8	87.7	90.6	93.5	90.6	87.7	87.7	84.8
85°	195.8	201.7	204.6	225.0	245.5	257.2	271.8	268.9	268.9	266.0	263.0
82.5°	391.6	409.2	423.8	444.2	455.9	473.5	485.2	476.4	470.5	458.9	450.1
80°	695.6	701.4	704.4	707.3	692.7	689.7	683.9	675.1	663.4	648.8	634.2
77.5°	885.6	891.4	897.2	891.4	888.5	885.6	876.8	868.0	856.3	844.6	827.1
75°	1172.0	1172.0	1172.0	1163.2	1157.4	1148.6	1134.0	1119.4	1098.9	1075.5	1049.2
72.5°	1475.9	1473.0	1470.1	1452.5	1437.9	1420.4	1399.9	1382.4	1359.0	1332.7	1297.6
70°	1794.5	1800.3	1803.3	1779.9	1762.3	1739.0	1712.7	1680.5	1645.4	1607.4	1557.8
67.5°	2232.9	2227.0	2221.2	2189.0	2165.7	2133.5	2095.5	2048.8	1996.1	1937.7	1867.6
65°	2776.5	2785.3	2767.7	2735.6	2691.7	2639.1	2580.7	2513.5	2434.5	2346.9	2247.5
62.5°	3434.1	3448.7	3428.2	3387.3	3331.8	3261.6	3179.8	3083.4	2975.2	2852.5	2729.7
60°	4182.3	4179.3	4141.3	4085.8	4012.8	3925.1	3834.5	3729.3	3606.5	3463.3	3314.2
57.5°	4869.1	4863.2	4816.5	4760.9	4687.9	4594.4	4497.9	4386.8	4258.3	4106.3	3933.8
55°	5485.8	5479.9	5433.1	5374.7	5298.7	5205.2	5117.5	5012.3	4886.6	4725.9	4541.7
52.5°	6032.3	6035.2	5994.3	5930.0	5848.2	5757.6	5672.8	5567.6	5447.8	5287.0	5108.7
50°	6535.0	6532.1	6488.2	6429.8	6353.8	6266.1	6181.3	6076.1	5950.4	5795.6	5623.1
47.5°	7002.6	6996.7	6947.1	6882.8	6803.9	6727.9	6649.0	6555.4	6423.9	6269.0	6096.6
45°	7394.2	7382.5	7332.8	7271.5	7195.5	7128.3	7058.1	6988.0	6847.7	6704.5	6540.8
42.5°	7730.3	7727.4	7677.7	7616.3	7540.4	7481.9	7417.6	7329.9	7213.0	7081.5	6920.8
40°	8051.8	8028.4	7978.7	7920.3	7850.2	7800.5	7736.2	7648.5	7534.5	7405.9	7251.0
37.5°	8291.5	8294.4	8241.8	8177.5	8116.1	8069.3	8010.9	7929.1	7829.7	7704.0	7549.1
35°	8519.4	8504.8	8461.0	8405.4	8349.9	8297.3	8235.9	8165.8	8084.0	7967.1	7820.9
32.5°	8668.5	8688.9	8636.3	8577.9	8545.7	8504.8	8440.5	8367.5	8294.4	8177.5	8046.0
30°	8832.2	8814.6	8773.7	8724.0	8700.6	8674.3	8618.8	8548.7	8463.9	8358.7	8235.9
27.5°	8946.1	8937.4	8887.7	8840.9	8829.2	8805.8	8762.0	8700.6	8615.9	8513.6	8399.6
25°	8995.8	9001.7	8954.9	8928.6	8928.6	8914.0	8878.9	8826.3	8741.5	8648.0	8537.0
22.5°	9019.2	9013.4	8981.2	8975.4	8990.0	8978.3	8963.7	8916.9	8840.9	8764.9	8671.4
20°	9033.8	8992.9	8963.7	8987.0	9004.6	9001.7	8990.0	8960.7	8925.7	8861.4	8779.5
17.5°	9001.7	8975.4	8940.3	8975.4	9013.4	9016.3	9004.6	8987.0	8978.3	8937.4	8864.3
15°	8922.8	8902.3	8908.1	8943.2	8987.0	9001.7	9010.4	9030.9	9019.2	8987.0	8922.8
12.5°	8870.1	8843.8	8870.1	8905.2	8928.6	8937.4	9007.5	9045.5	9045.5	9016.3	8975.4
10°	8855.5	8802.9	8838.0	8870.1	8881.8	8934.4	8992.9	9033.8	9054.3	9030.9	8978.3
7.5°	8826.3	8791.2	8805.8	8820.5	8887.7	8925.7	8957.8	9001.7	9030.9	9028.0	8981.2
5°	8811.7	8767.9	8773.7	8835.1	8881.8	8908.1	8919.8	8957.8	9001.7	9010.4	8975.4
2.5°	8773.7	8753.2	8797.1	8802.9	8838.0	8858.5	8870.1	8905.2	8960.7	8981.2	8966.6
0°	8753.2	8724.0	8694.8	8718.2	8776.6	8820.5	8838.0	8890.6	8954.9	8975.4	8943.2



REPORT NUMBER: P628276  
 CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

**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°	81.8	78.9	76.0	73.1	76.0	76.0	76.0	73.1	76.0	73.1	73.1
85°	254.3	242.6	233.8	222.1	210.4	201.7	190.0	178.3	175.4	172.4	166.6
82.5°	438.4	423.8	409.2	391.6	374.1	353.6	333.2	309.8	304.0	298.1	289.3
80°	616.7	596.2	575.8	555.3	537.8	517.3	493.9	467.6	450.1	435.5	417.9
77.5°	803.7	774.5	745.3	710.2	689.7	669.3	645.9	619.6	593.3	569.9	543.6
75°	1017.1	984.9	955.7	920.6	882.6	844.6	806.6	771.6	733.6	698.5	663.4
72.5°	1253.8	1207.0	1160.3	1116.4	1069.7	1022.9	973.2	926.5	879.7	832.9	783.3
70°	1502.2	1443.8	1385.3	1326.9	1265.5	1204.1	1145.7	1087.2	1028.8	967.4	911.9
67.5°	1794.5	1727.3	1651.3	1569.4	1478.8	1399.9	1323.9	1253.8	1183.7	1113.5	1043.4
65°	2159.8	2066.3	1964.0	1852.9	1747.7	1642.5	1531.5	1426.2	1344.4	1262.6	1183.7
62.5°	2609.9	2478.4	2335.2	2192.0	2063.4	1926.0	1797.4	1660.0	1531.5	1414.5	1318.1
60°	3147.7	2969.4	2794.0	2609.9	2431.6	2244.6	2080.9	1911.4	1750.6	1607.4	1467.2
57.5°	3741.0	3533.4	3323.0	3098.0	2855.4	2636.2	2414.1	2192.0	2002.0	1812.0	1654.2
55°	4343.0	4123.8	3887.1	3632.8	3366.9	3086.3	2785.3	2536.8	2276.7	2054.6	1850.0
52.5°	4915.8	4687.9	4442.4	4208.6	3890.0	3568.5	3238.3	2910.9	2607.0	2323.5	2075.1
50°	5427.3	5205.2	4968.5	4696.6	4401.5	4059.5	3691.3	3323.0	2963.5	2630.4	2320.6
47.5°	5894.9	5678.6	5441.9	5170.1	4901.2	4521.3	4150.1	3743.9	3343.5	2960.6	2598.2
45°	6333.3	6114.1	5868.6	5608.5	5298.7	4959.7	4576.8	4167.7	3738.0	3308.4	2890.5
42.5°	6730.8	6511.6	6263.2	5994.3	5687.4	5351.3	4980.1	4568.1	4135.5	3667.9	3209.0
40°	7078.6	6865.2	6625.6	6345.0	6058.6	5704.9	5339.6	4948.0	4500.8	4030.3	3524.7
37.5°	7382.5	7183.8	6947.1	6669.4	6365.5	6049.8	5672.8	5281.2	4877.8	4366.4	3849.1
35°	7651.4	7467.3	7224.7	6961.7	6663.6	6330.4	5976.8	5593.9	5158.4	4679.1	4176.4
32.5°	7885.2	7698.2	7476.1	7213.0	6923.7	6611.0	6248.6	5862.8	5450.7	4962.6	4416.1
30°	8084.0	7902.8	7692.3	7443.9	7166.3	6856.5	6502.8	6114.1	5693.3	5208.1	4667.4
27.5°	8256.4	8084.0	7879.4	7648.5	7382.5	7084.4	6727.9	6336.2	5906.6	5439.0	4898.3
25°	8405.4	8238.9	8048.9	7829.7	7566.7	7274.4	6938.3	6529.1	6099.5	5629.0	5094.1
22.5°	8539.9	8379.1	8189.2	7975.8	7736.2	7443.9	7104.9	6698.6	6263.2	5798.5	5272.4
20°	8659.7	8510.7	8323.6	8104.4	7864.8	7569.6	7233.5	6847.7	6409.3	5953.4	5433.1
17.5°	8756.2	8624.6	8437.6	8206.7	7967.1	7680.6	7353.3	6999.7	6535.0	6084.9	5567.6
15°	8823.4	8694.8	8525.3	8291.5	8057.7	7774.2	7446.8	7081.5	6649.0	6190.1	5678.6
12.5°	8870.1	8732.8	8575.0	8358.7	8124.9	7844.3	7525.7	7166.3	6745.4	6283.6	5775.1
10°	8881.8	8756.2	8598.3	8405.4	8177.5	7905.7	7593.0	7236.4	6824.3	6356.7	5854.0
7.5°	8887.7	8767.9	8624.6	8440.5	8215.5	7952.4	7642.6	7291.9	6882.8	6418.1	5912.5
5°	8884.8	8770.8	8642.2	8463.9	8238.9	7978.7	7674.8	7329.9	6923.7	6459.0	5956.3
2.5°	8876.0	8773.7	8653.9	8481.4	8265.2	8008.0	7706.9	7373.8	6967.5	6494.1	5991.4
0°	8899.4	8811.7	8659.7	8475.6	8271.0	8008.0	7704.0	7379.6	6973.4	6491.1	5988.4





REPORT NUMBER: P628276  
 CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

**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°	73.1	70.1	70.1	67.2	64.3	61.4	55.5	52.6	46.8	38.0	29.2
85°	157.8	149.1	140.3	134.4	128.6	122.7	114.0	105.2	93.5	76.0	58.5
82.5°	277.6	260.1	242.6	222.1	204.6	187.0	172.4	157.8	140.3	114.0	87.7
80°	397.5	371.2	344.9	315.6	289.3	260.1	233.8	210.4	187.0	152.0	116.9
77.5°	517.3	482.2	444.2	409.2	371.2	333.2	295.2	263.0	228.0	187.0	146.1
75°	628.4	587.4	552.4	502.7	455.9	406.2	356.6	312.7	268.9	219.2	175.4
72.5°	739.4	686.8	637.1	590.4	537.8	476.4	420.9	365.3	309.8	251.3	198.7
70°	850.5	786.2	724.8	669.3	610.8	549.5	482.2	417.9	350.7	280.6	219.2
67.5°	964.5	891.4	821.3	751.1	683.9	613.7	543.6	470.5	391.6	309.8	242.6
65°	1090.1	999.5	914.8	835.9	757.0	681.0	602.1	523.1	435.5	341.9	263.0
62.5°	1215.8	1116.4	1017.1	917.7	830.0	745.3	660.5	572.8	476.4	377.0	283.5
60°	1350.2	1236.3	1122.3	1011.2	903.1	809.6	716.0	622.5	520.2	409.2	304.0
57.5°	1499.3	1361.9	1233.3	1107.7	984.9	873.9	771.6	672.2	558.2	441.3	327.3
55°	1668.8	1499.3	1347.3	1207.0	1072.6	938.2	827.1	724.8	602.1	473.5	353.6
52.5°	1847.1	1651.3	1467.2	1309.3	1166.1	1014.1	879.7	765.7	645.9	505.6	377.0
50°	2054.6	1806.2	1601.6	1408.7	1248.0	1090.1	935.2	812.5	689.7	543.6	400.4
47.5°	2268.0	1993.2	1736.0	1525.6	1335.6	1163.2	999.5	853.4	730.7	578.7	423.8
45°	2516.4	2171.5	1888.0	1639.6	1420.4	1239.2	1063.8	897.2	765.7	613.7	447.2
42.5°	2756.0	2381.9	2045.8	1765.3	1516.8	1312.3	1122.3	944.0	800.8	648.8	467.6
40°	3039.5	2592.4	2197.8	1885.1	1613.3	1382.4	1180.7	993.7	832.9	681.0	488.1
37.5°	3311.3	2805.7	2381.9	2016.6	1706.8	1452.5	1239.2	1040.5	862.2	713.1	514.4
35°	3580.2	3042.4	2557.3	2139.4	1803.3	1531.5	1297.6	1084.3	891.4	739.4	537.8
32.5°	3837.4	3264.6	2735.6	2276.7	1908.5	1604.5	1350.2	1125.2	920.6	762.8	561.1
30°	4077.1	3475.0	2910.9	2417.0	2004.9	1671.7	1399.9	1166.1	955.7	783.3	584.5
27.5°	4296.2	3679.6	3086.3	2548.5	2095.5	1733.1	1452.5	1204.1	984.9	803.7	605.0
25°	4495.0	3863.7	3247.0	2668.4	2177.4	1800.3	1502.2	1242.1	1011.2	821.3	622.5
22.5°	4682.0	4033.2	3393.2	2788.2	2276.7	1867.6	1549.0	1277.2	1037.5	838.8	640.1
20°	4845.7	4188.1	3533.4	2908.0	2364.4	1928.9	1589.9	1309.3	1060.9	850.5	657.6
17.5°	4977.2	4325.5	3659.1	3013.2	2440.4	1981.5	1625.0	1338.6	1081.4	865.1	669.3
15°	5094.1	4442.4	3764.3	3103.8	2507.6	2025.4	1657.1	1361.9	1098.9	873.9	683.9
12.5°	5193.5	4541.7	3854.9	3182.7	2566.1	2063.4	1683.4	1379.5	1113.5	882.6	692.7
10°	5275.3	4620.7	3930.9	3244.1	2612.8	2092.6	1703.9	1397.0	1125.2	891.4	701.4
7.5°	5336.7	4679.1	3986.5	3296.7	2650.8	2113.1	1721.4	1408.7	1136.9	897.2	716.0
5°	5383.5	4728.8	4030.3	3331.8	2680.0	2142.3	1741.9	1423.3	1148.6	903.1	716.0
2.5°	5418.5	4769.7	4065.4	3361.0	2703.4	2136.4	1741.9	1420.4	1148.6	903.1	713.1
0°	5412.7	4772.6	4062.4	3361.0	2703.4	2130.6	1741.9	1417.5	1148.6	903.1	713.1



REPORT NUMBER: P628276  
 CATALOG NUMBER: IFLD-S-SA6A-740-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	20.5	14.6	5.8	0.0
85°	43.8	29.2	14.6	0.0
82.5°	64.3	40.9	20.5	0.0
80°	84.8	55.5	26.3	0.0
77.5°	108.1	70.1	35.1	0.0
75°	128.6	81.8	40.9	0.0
72.5°	149.1	96.4	46.8	0.0
70°	166.6	108.1	52.6	0.0
67.5°	184.1	122.7	61.4	0.0
65°	198.7	134.4	67.2	0.0
62.5°	210.4	149.1	73.1	0.0
60°	225.0	160.7	78.9	0.0
57.5°	236.7	169.5	84.8	0.0
55°	248.4	175.4	90.6	0.0
52.5°	260.1	184.1	96.4	0.0
50°	271.8	192.9	102.3	0.0
47.5°	283.5	198.7	105.2	0.0
45°	301.0	207.5	111.1	0.0
42.5°	315.6	213.4	116.9	0.0
40°	330.3	219.2	119.8	0.0
37.5°	344.9	225.0	125.7	0.0
35°	359.5	230.9	128.6	0.0
32.5°	371.2	236.7	131.5	0.0
30°	382.9	242.6	134.4	0.0
27.5°	394.6	245.5	137.4	0.0
25°	403.3	251.3	140.3	0.0
22.5°	412.1	254.3	143.2	0.0
20°	417.9	257.2	146.1	0.0
17.5°	426.7	260.1	149.1	0.0
15°	429.6	263.0	154.9	0.0
12.5°	435.5	266.0	154.9	0.0
10°	438.4	268.9	154.9	0.0
7.5°	444.2	268.9	154.9	0.0
5°	441.3	268.9	154.9	0.0
2.5°	441.3	268.9	154.9	0.0
0°	438.4	268.9	154.9	0.0

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