

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: P628242

Luminaire Tested: **IFLD-S-SA3A-735-U-LAM**

Issue Date: 01/11/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628242  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/11/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-735-U-LAM  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

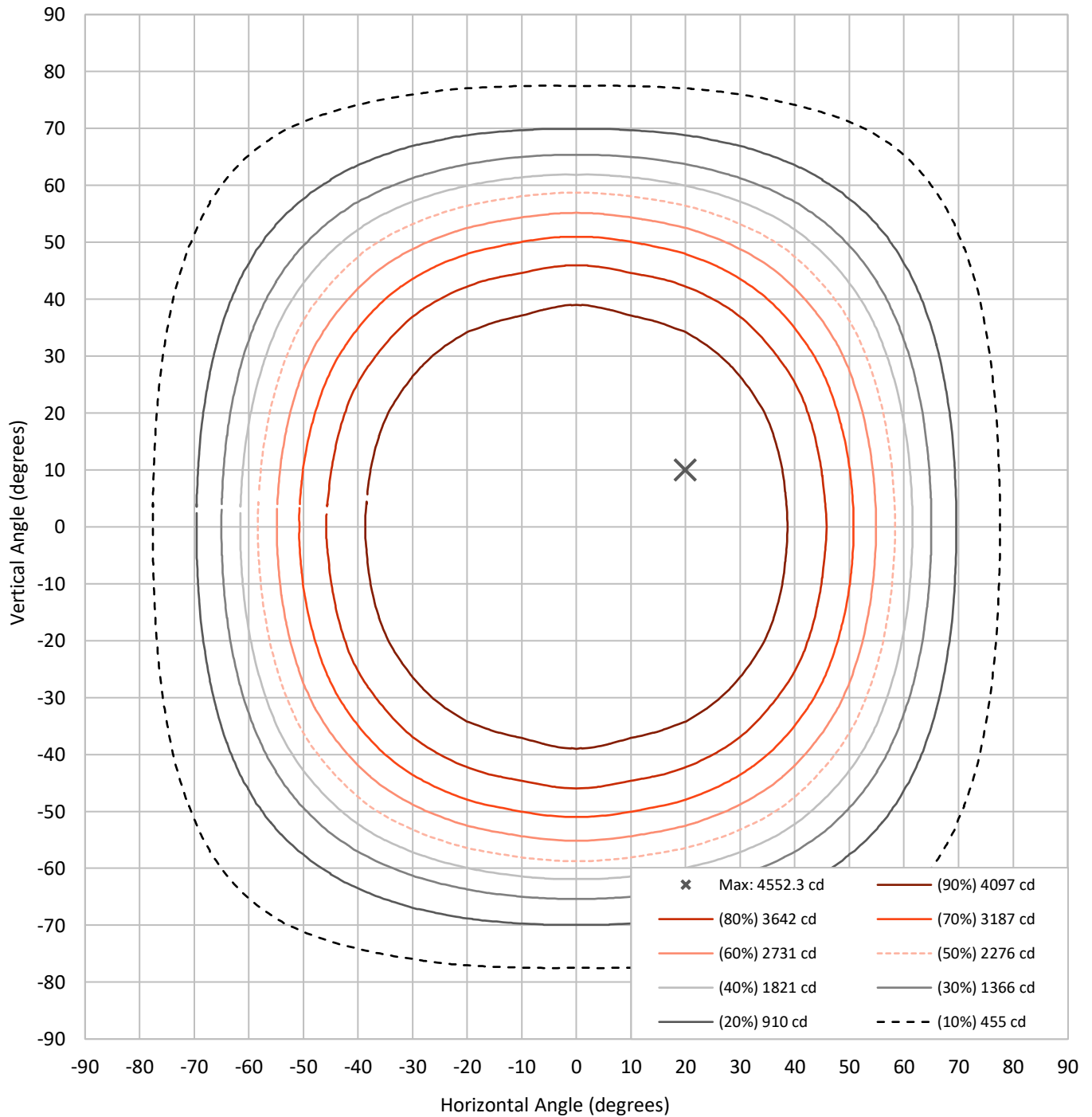
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	13965.9 lumens	Max Intensity:	4552.3 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	147.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	8569.8 lumens	Field Lumens:	10273.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 94.8  
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: P628242  
CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM

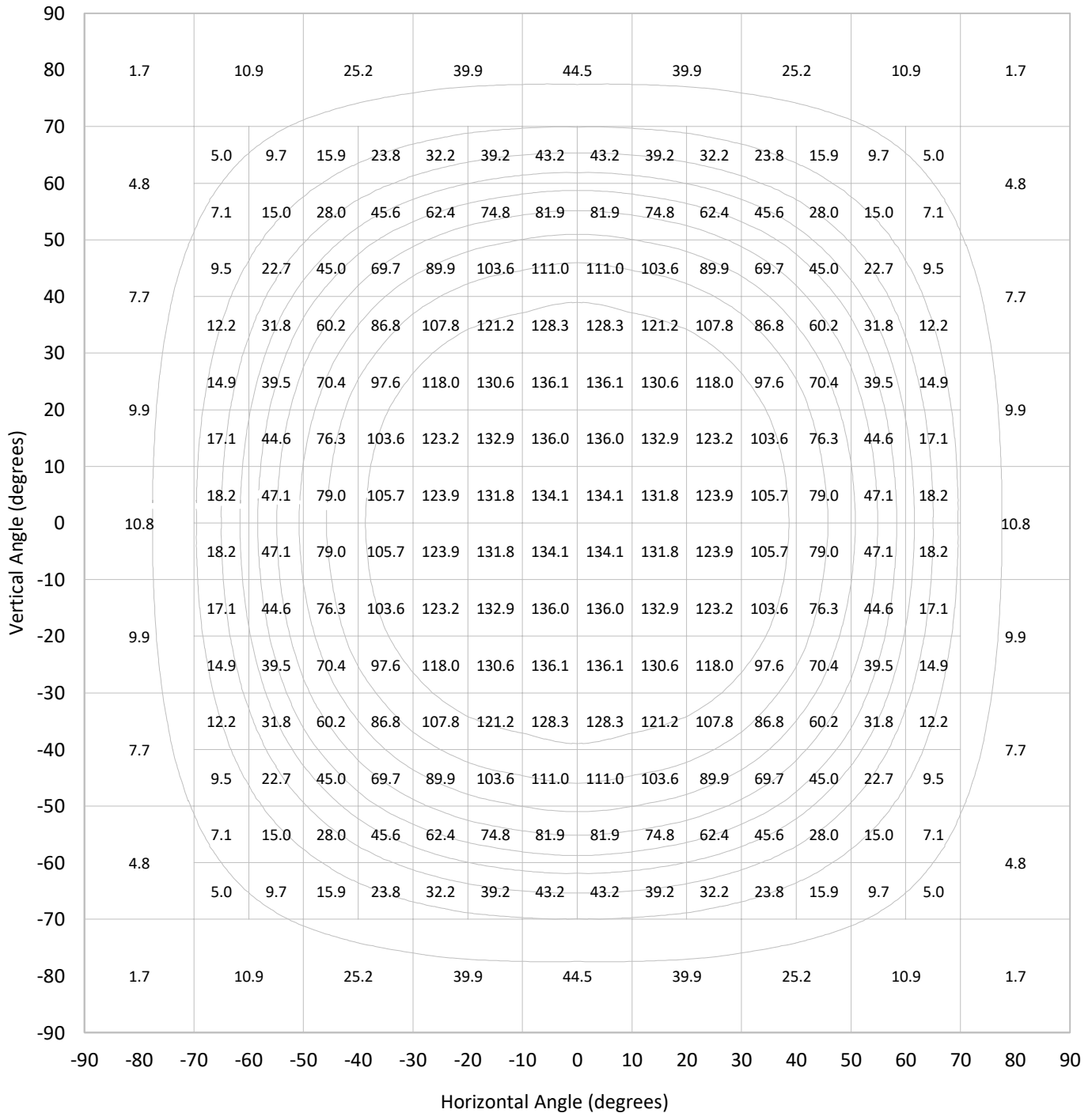
### Iso-Candela Plot





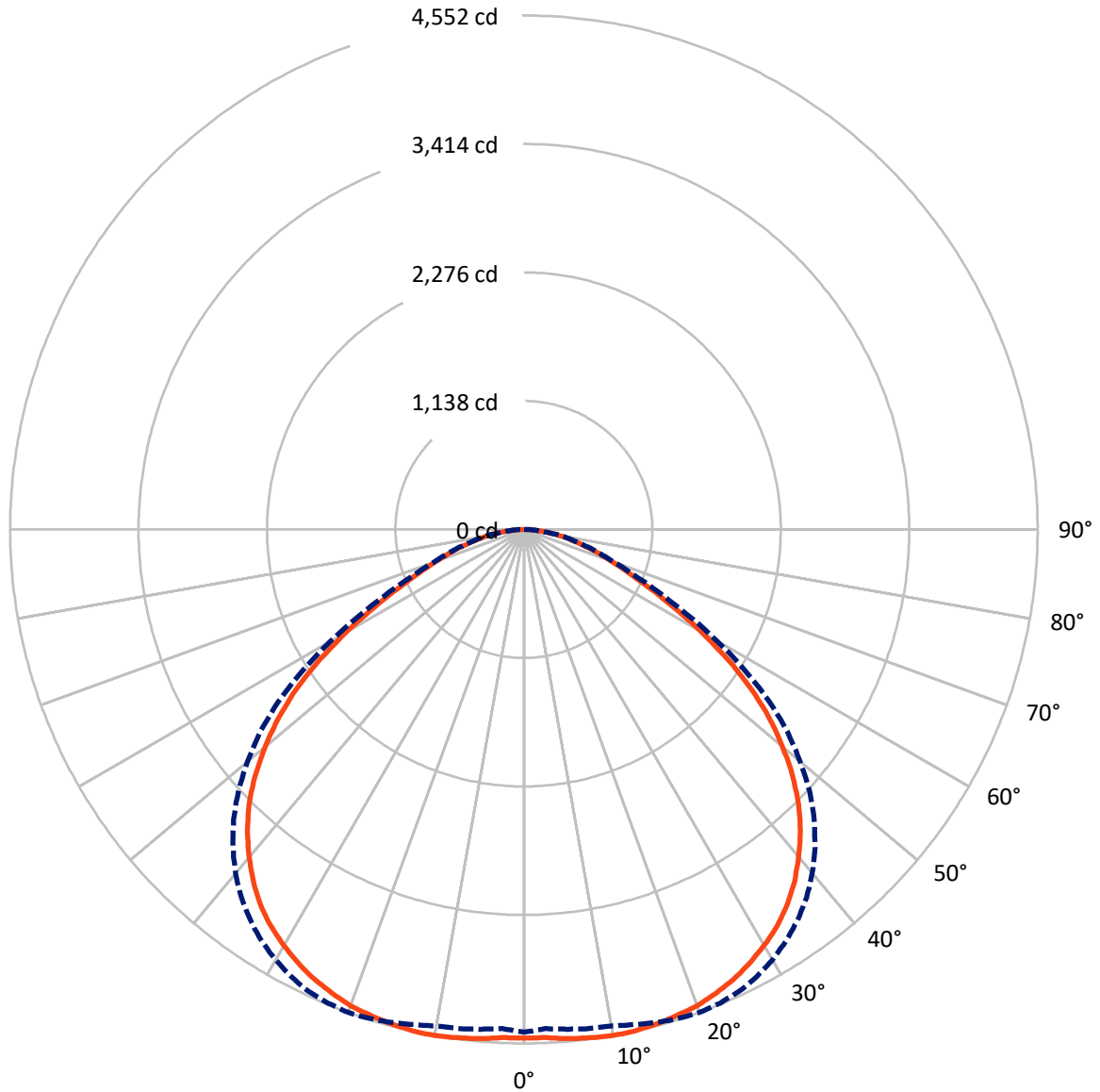
REPORT NUMBER: P628242  
 CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM

### Lumen Table



REPORT NUMBER: P628242  
CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM

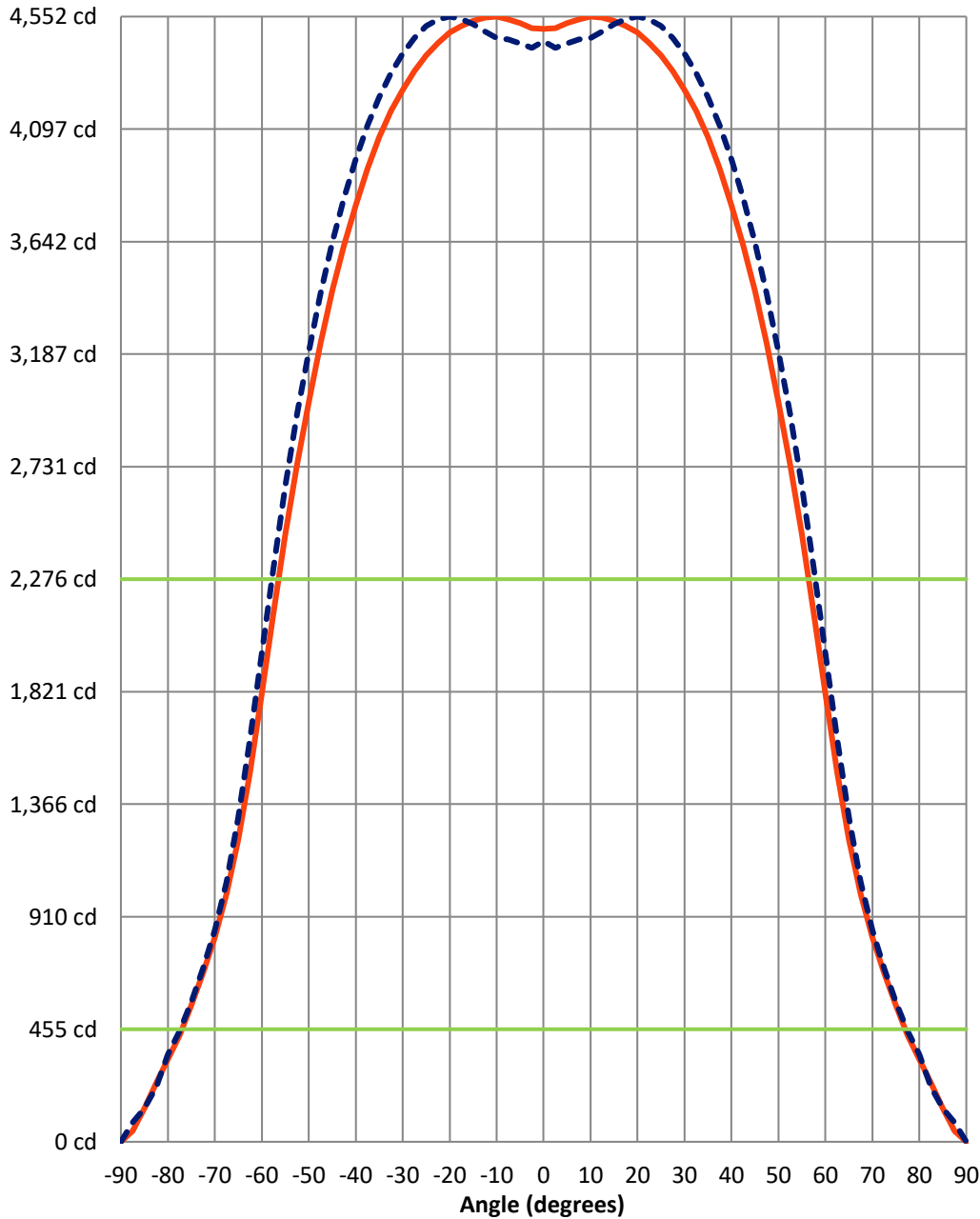
### Luminous Intensity Polar Plot



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

REPORT NUMBER: P628242  
 CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM

### Luminous Intensity Plot



**Beam:**  
 H Angle: 115.7°  
 V Angle: 112.9°  
 Lumens: 8569.8  
 Efficiency: 61.4%

**Field:**  
 H Angle: 154.7°  
 V Angle: 154°  
 Lumens: 10273.7  
 Efficiency: 73.6%

**Spill:**  
 Lumens: 3692.2  
 Efficiency: 26.4%

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



REPORT NUMBER: P628242  
 CATALOG NUMBER: IFLD-S-SA3A-735-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°	36.7	39.7	41.1	42.6	44.1	45.6	47.0	45.6	44.1	44.1	42.6
85°	98.5	101.4	102.9	113.1	123.4	129.3	136.7	135.2	135.2	133.7	132.2
82.5°	196.9	205.7	213.1	223.4	229.2	238.0	243.9	239.5	236.6	230.7	226.3
80°	349.7	352.7	354.1	355.6	348.3	346.8	343.8	339.4	333.6	326.2	318.9
77.5°	445.2	448.2	451.1	448.2	446.7	445.2	440.8	436.4	430.5	424.7	415.9
75°	589.2	589.2	589.2	584.8	581.9	577.5	570.1	562.8	552.5	540.8	527.5
72.5°	742.1	740.6	739.1	730.3	723.0	714.1	703.9	695.0	683.3	670.1	652.4
70°	902.2	905.2	906.6	894.9	886.1	874.3	861.1	844.9	827.3	808.2	783.2
67.5°	1122.6	1119.7	1116.8	1100.6	1088.9	1072.7	1053.6	1030.1	1003.6	974.2	939.0
65°	1396.0	1400.4	1391.6	1375.4	1353.4	1326.9	1297.5	1263.7	1224.0	1180.0	1130.0
62.5°	1726.6	1733.9	1723.6	1703.1	1675.2	1639.9	1598.7	1550.3	1495.9	1434.2	1372.5
60°	2102.8	2101.3	2082.2	2054.3	2017.5	1973.5	1927.9	1875.0	1813.3	1741.3	1666.3
57.5°	2448.1	2445.1	2421.6	2393.7	2357.0	2310.0	2261.5	2205.6	2141.0	2064.6	1977.9
55°	2758.1	2755.2	2731.7	2702.3	2664.1	2617.1	2573.0	2520.1	2456.9	2376.1	2283.5
52.5°	3032.9	3034.4	3013.8	2981.5	2940.3	2894.8	2852.2	2799.3	2739.0	2658.2	2568.6
50°	3285.7	3284.2	3262.2	3232.8	3194.6	3150.5	3107.9	3055.0	2991.8	2913.9	2827.2
47.5°	3520.8	3517.8	3492.9	3460.5	3420.8	3382.6	3343.0	3295.9	3229.8	3151.9	3065.2
45°	3717.7	3711.8	3686.8	3656.0	3617.8	3584.0	3548.7	3513.4	3442.9	3370.9	3288.6
42.5°	3886.7	3885.2	3860.2	3829.4	3791.1	3761.8	3729.4	3685.3	3626.6	3560.4	3479.6
40°	4048.3	4036.5	4011.6	3982.2	3946.9	3921.9	3889.6	3845.5	3788.2	3723.6	3645.7
37.5°	4168.8	4170.3	4143.8	4111.5	4080.6	4057.1	4027.7	3986.6	3936.6	3873.4	3795.6
35°	4283.4	4276.1	4254.0	4226.1	4198.2	4171.7	4140.9	4105.6	4064.5	4005.7	3932.2
32.5°	4358.4	4368.6	4342.2	4312.8	4296.6	4276.1	4243.7	4207.0	4170.3	4111.5	4045.4
30°	4440.6	4431.8	4411.3	4386.3	4374.5	4361.3	4333.4	4298.1	4255.5	4202.6	4140.9
27.5°	4497.9	4493.5	4468.6	4445.0	4439.2	4427.4	4405.4	4374.5	4331.9	4280.5	4223.2
25°	4522.9	4525.9	4502.4	4489.1	4489.1	4481.8	4464.1	4437.7	4395.1	4348.1	4292.2
22.5°	4534.7	4531.7	4515.6	4512.6	4520.0	4514.1	4506.8	4483.3	4445.0	4406.8	4359.8
20°	4542.0	4521.5	4506.8	4518.5	4527.3	4525.9	4520.0	4505.3	4487.7	4455.3	4414.2
17.5°	4525.9	4512.6	4495.0	4512.6	4531.7	4533.2	4527.3	4518.5	4514.1	4493.5	4456.8
15°	4486.2	4475.9	4478.8	4496.5	4518.5	4525.9	4530.3	4540.6	4534.7	4518.5	4486.2
12.5°	4459.7	4446.5	4459.7	4477.4	4489.1	4493.5	4528.8	4547.9	4547.9	4533.2	4512.6
10°	4452.4	4425.9	4443.6	4459.7	4465.6	4492.1	4521.5	4542.0	4552.3	4540.6	4514.1
7.5°	4437.7	4420.1	4427.4	4434.8	4468.6	4487.7	4503.8	4525.9	4540.6	4539.1	4515.6
5°	4430.4	4408.3	4411.3	4442.1	4465.6	4478.8	4484.7	4503.8	4525.9	4530.3	4512.6
2.5°	4411.3	4401.0	4423.0	4425.9	4443.6	4453.9	4459.7	4477.4	4505.3	4515.6	4508.2
0°	4401.0	4386.3	4371.6	4383.3	4412.7	4434.8	4443.6	4470.0	4502.4	4512.6	4496.5



REPORT NUMBER: P628242  
 CATALOG NUMBER: IFLD-S-SA3A-735-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°	41.1	39.7	38.2	36.7	38.2	38.2	38.2	36.7	38.2	36.7	36.7
85°	127.8	122.0	117.6	111.7	105.8	101.4	95.5	89.6	88.2	86.7	83.8
82.5°	220.4	213.1	205.7	196.9	188.1	177.8	167.5	155.8	152.8	149.9	145.5
80°	310.1	299.8	289.5	279.2	270.4	260.1	248.3	235.1	226.3	218.9	210.1
77.5°	404.1	389.4	374.7	357.1	346.8	336.5	324.7	311.5	298.3	286.5	273.3
75°	511.4	495.2	480.5	462.9	443.8	424.7	405.6	387.9	368.8	351.2	333.6
72.5°	630.4	606.9	583.4	561.3	537.8	514.3	489.3	465.8	442.3	418.8	393.8
70°	755.3	725.9	696.5	667.1	636.3	605.4	576.0	546.6	517.2	486.4	458.5
67.5°	902.2	868.4	830.2	789.1	743.5	703.9	665.7	630.4	595.1	559.9	524.6
65°	1085.9	1038.9	987.5	931.6	878.7	825.8	770.0	717.1	675.9	634.8	595.1
62.5°	1312.2	1246.1	1174.1	1102.1	1037.4	968.4	903.7	834.6	770.0	711.2	662.7
60°	1582.6	1492.9	1404.8	1312.2	1222.6	1128.5	1046.2	961.0	880.2	808.2	737.7
57.5°	1880.9	1776.5	1670.7	1557.6	1435.6	1325.4	1213.8	1102.1	1006.6	911.1	831.7
55°	2183.6	2073.4	1954.4	1826.5	1692.8	1551.7	1400.4	1275.5	1144.7	1033.0	930.2
52.5°	2471.6	2357.0	2233.5	2116.0	1955.8	1794.2	1628.1	1463.6	1310.7	1168.2	1043.3
50°	2728.7	2617.1	2498.0	2361.4	2213.0	2041.0	1855.9	1670.7	1490.0	1322.5	1166.7
47.5°	2963.9	2855.1	2736.1	2599.4	2464.2	2273.2	2086.6	1882.3	1681.0	1488.5	1306.3
45°	3184.3	3074.1	2950.6	2819.8	2664.1	2493.6	2301.1	2095.4	1879.4	1663.4	1453.3
42.5°	3384.1	3273.9	3149.0	3013.8	2859.5	2690.5	2503.9	2296.7	2079.3	1844.1	1613.4
40°	3559.0	3451.7	3331.2	3190.1	3046.1	2868.3	2684.7	2487.8	2262.9	2026.4	1772.1
37.5°	3711.8	3611.9	3492.9	3353.3	3200.4	3041.7	2852.2	2655.3	2452.5	2195.3	1935.2
35°	3847.0	3754.4	3632.4	3500.2	3350.3	3182.8	3005.0	2812.5	2593.6	2352.6	2099.8
32.5°	3964.5	3870.5	3758.8	3626.6	3481.1	3323.9	3141.7	2947.7	2740.5	2495.1	2220.3
30°	4064.5	3973.4	3867.6	3742.7	3603.1	3447.3	3269.5	3074.1	2862.5	2618.5	2346.7
27.5°	4151.2	4064.5	3961.6	3845.5	3711.8	3561.9	3382.6	3185.7	2969.7	2734.6	2462.8
25°	4226.1	4142.3	4046.8	3936.6	3804.4	3657.4	3488.4	3282.7	3066.7	2830.1	2561.2
22.5°	4293.7	4212.9	4117.4	4010.1	3889.6	3742.7	3572.2	3367.9	3149.0	2915.4	2650.9
20°	4353.9	4279.0	4185.0	4074.7	3954.3	3805.8	3636.9	3442.9	3222.5	2993.2	2731.7
17.5°	4402.4	4336.3	4242.3	4126.2	4005.7	3861.7	3697.1	3519.3	3285.7	3059.4	2799.3
15°	4436.2	4371.6	4286.3	4168.8	4051.2	3908.7	3744.1	3560.4	3343.0	3112.3	2855.1
12.5°	4459.7	4390.7	4311.3	4202.6	4085.0	3944.0	3783.8	3603.1	3391.5	3159.3	2903.6
10°	4465.6	4402.4	4323.1	4226.1	4111.5	3974.8	3817.6	3638.3	3431.1	3196.0	2943.3
7.5°	4468.6	4408.3	4336.3	4243.7	4130.6	3998.3	3842.6	3666.2	3460.5	3226.9	2972.7
5°	4467.1	4409.8	4345.1	4255.5	4142.3	4011.6	3858.7	3685.3	3481.1	3247.5	2994.7
2.5°	4462.7	4411.3	4351.0	4264.3	4155.6	4026.3	3874.9	3707.4	3503.1	3265.1	3012.3
0°	4474.4	4430.4	4353.9	4261.4	4158.5	4026.3	3873.4	3710.3	3506.1	3263.6	3010.9





REPORT NUMBER: P628242  
 CATALOG NUMBER: IFLD-S-SA3A-735-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°	36.7	35.3	35.3	33.8	32.3	30.9	27.9	26.4	23.5	19.1	14.7
85°	79.3	74.9	70.5	67.6	64.7	61.7	57.3	52.9	47.0	38.2	29.4
82.5°	139.6	130.8	122.0	111.7	102.9	94.0	86.7	79.3	70.5	57.3	44.1
80°	199.8	186.6	173.4	158.7	145.5	130.8	117.6	105.8	94.0	76.4	58.8
77.5°	260.1	242.5	223.4	205.7	186.6	167.5	148.4	132.2	114.6	94.0	73.5
75°	315.9	295.4	277.7	252.7	229.2	204.3	179.3	157.2	135.2	110.2	88.2
72.5°	371.8	345.3	320.3	296.8	270.4	239.5	211.6	183.7	155.8	126.4	99.9
70°	427.6	395.3	364.4	336.5	307.1	276.3	242.5	210.1	176.3	141.1	110.2
67.5°	484.9	448.2	412.9	377.6	343.8	308.6	273.3	236.6	196.9	155.8	122.0
65°	548.1	502.5	459.9	420.3	380.6	342.4	302.7	263.0	218.9	171.9	132.2
62.5°	611.3	561.3	511.4	461.4	417.3	374.7	332.1	288.0	239.5	189.6	142.5
60°	678.9	621.6	564.3	508.4	454.1	407.0	360.0	313.0	261.6	205.7	152.8
57.5°	753.8	684.8	620.1	556.9	495.2	439.4	387.9	338.0	280.7	221.9	164.6
55°	839.0	753.8	677.4	606.9	539.3	471.7	415.9	364.4	302.7	238.0	177.8
52.5°	928.7	830.2	737.7	658.3	586.3	509.9	442.3	385.0	324.7	254.2	189.6
50°	1033.0	908.1	805.3	708.3	627.4	548.1	470.2	408.5	346.8	273.3	201.3
47.5°	1140.3	1002.2	872.8	767.0	671.5	584.8	502.5	429.1	367.4	290.9	213.1
45°	1265.2	1091.8	949.3	824.4	714.1	623.0	534.9	451.1	385.0	308.6	224.8
42.5°	1385.7	1197.6	1028.6	887.5	762.6	659.8	564.3	474.6	402.6	326.2	235.1
40°	1528.2	1303.4	1105.0	947.8	811.1	695.0	593.7	499.6	418.8	342.4	245.4
37.5°	1664.9	1410.7	1197.6	1013.9	858.2	730.3	623.0	523.1	433.5	358.5	258.6
35°	1800.1	1529.7	1285.8	1075.6	906.6	770.0	652.4	545.2	448.2	371.8	270.4
32.5°	1929.4	1641.4	1375.4	1144.7	959.5	806.7	678.9	565.7	462.9	383.5	282.1
30°	2049.9	1747.2	1463.6	1215.2	1008.0	840.5	703.9	586.3	480.5	393.8	293.9
27.5°	2160.1	1850.0	1551.7	1281.3	1053.6	871.4	730.3	605.4	495.2	404.1	304.2
25°	2260.0	1942.6	1632.5	1341.6	1094.7	905.2	755.3	624.5	508.4	412.9	313.0
22.5°	2354.0	2027.8	1706.0	1401.8	1144.7	939.0	778.8	642.1	521.7	421.7	321.8
20°	2436.3	2105.7	1776.5	1462.1	1188.8	969.8	799.4	658.3	533.4	427.6	330.6
17.5°	2502.5	2174.8	1839.7	1515.0	1227.0	996.3	817.0	673.0	543.7	435.0	336.5
15°	2561.2	2233.5	1892.6	1560.5	1260.8	1018.3	833.2	684.8	552.5	439.4	343.8
12.5°	2611.2	2283.5	1938.2	1600.2	1290.2	1037.4	846.4	693.6	559.9	443.8	348.3
10°	2652.3	2323.2	1976.4	1631.1	1313.7	1052.1	856.7	702.4	565.7	448.2	352.7
7.5°	2683.2	2352.6	2004.3	1657.5	1332.8	1062.4	865.5	708.3	571.6	451.1	360.0
5°	2706.7	2377.5	2026.4	1675.2	1347.5	1077.1	875.8	715.6	577.5	454.1	360.0
2.5°	2724.3	2398.1	2044.0	1689.9	1359.2	1074.2	875.8	714.1	577.5	454.1	358.5
0°	2721.4	2399.6	2042.5	1689.9	1359.2	1071.2	875.8	712.7	577.5	454.1	358.5



REPORT NUMBER: P628242  
 CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.3	7.3	2.9	0.0
85°	22.0	14.7	7.3	0.0
82.5°	32.3	20.6	10.3	0.0
80°	42.6	27.9	13.2	0.0
77.5°	54.4	35.3	17.6	0.0
75°	64.7	41.1	20.6	0.0
72.5°	74.9	48.5	23.5	0.0
70°	83.8	54.4	26.4	0.0
67.5°	92.6	61.7	30.9	0.0
65°	99.9	67.6	33.8	0.0
62.5°	105.8	74.9	36.7	0.0
60°	113.1	80.8	39.7	0.0
57.5°	119.0	85.2	42.6	0.0
55°	124.9	88.2	45.6	0.0
52.5°	130.8	92.6	48.5	0.0
50°	136.7	97.0	51.4	0.0
47.5°	142.5	99.9	52.9	0.0
45°	151.4	104.3	55.8	0.0
42.5°	158.7	107.3	58.8	0.0
40°	166.0	110.2	60.2	0.0
37.5°	173.4	113.1	63.2	0.0
35°	180.7	116.1	64.7	0.0
32.5°	186.6	119.0	66.1	0.0
30°	192.5	122.0	67.6	0.0
27.5°	198.4	123.4	69.1	0.0
25°	202.8	126.4	70.5	0.0
22.5°	207.2	127.8	72.0	0.0
20°	210.1	129.3	73.5	0.0
17.5°	214.5	130.8	74.9	0.0
15°	216.0	132.2	77.9	0.0
12.5°	218.9	133.7	77.9	0.0
10°	220.4	135.2	77.9	0.0
7.5°	223.4	135.2	77.9	0.0
5°	221.9	135.2	77.9	0.0
2.5°	221.9	135.2	77.9	0.0
0°	220.4	135.2	77.9	0.0

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