Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P722837

Luminaire Tested: **IFLD-M-SA4B-727-U-11**

Issue Date: 01/11/2023

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P722837
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	01/11/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	IFLD-M-SA4B-727-U-11
Description:	Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 1 distribution lens
Light Source:	(64) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	1H x 1V
Luminaire Lumens:	10073.9 lumens	Max Intensity:	301932.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	60.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		

Beam Angle (50%):	8.3°H x 8.9°V	Field Angle (10%):	14.9°H x 14.6°V
Beam Lumens:	3393.9 lumens	Field Lumens:	5360.9 lumens
Beam Efficiency:	33.7%	Field Efficiency:	53.2%

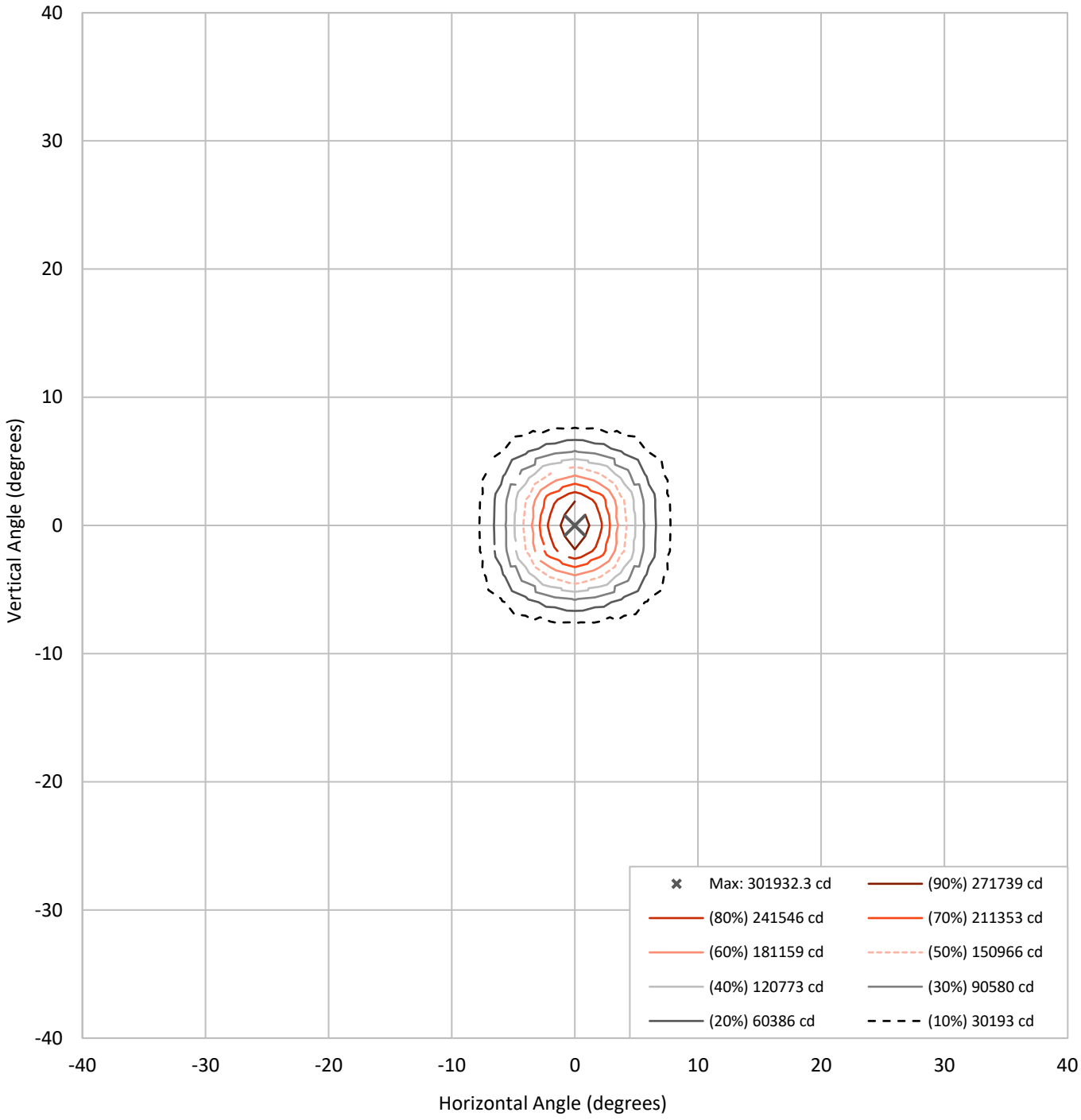
Input Watts (W):	166.1
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

Iso-Candela Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

Lumen Table

Vertical Angle (degrees)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
90	0.0	0.4		1.4		3.1		5.5				3.1		1.4		0.4		0.0	
80																			
70	0.2	0.3	0.7	1.4	2.2	2.7	4.4	8.1	8.1	4.4	2.7	2.2	1.4	0.7	0.3			0.2	
60		0.5	1.2	2.6	4.0	5.2	7.0	9.9	9.9	7.0	5.2	4.0	2.6	1.2	0.5				
50	0.7	0.9	1.9	3.9	6.6	9.7	12.6	15.5	15.5	12.6	9.7	6.6	3.9	1.9	0.9			0.7	
40		1.4	2.7	5.6	10.1	13.6	15.1	16.1	16.1	15.1	13.6	10.1	5.6	2.7	1.4				
30	1.4	2.1	3.7	7.9	12.4	14.3	18.9	25.1	25.1	18.9	14.3	12.4	7.9	3.7	2.1			1.4	
20		2.8	5.2	10.4	13.7	18.3	36.8	70.6	70.6	36.8	18.3	13.7	10.4	5.2	2.8				
10	1.6	3.2	6.3	11.8	14.3	24.1	73.2	1966.9	1966.9	73.2	24.1	14.3	11.8	6.3	3.2			1.6	
0		3.2	6.3	11.8	14.3	24.1	73.2	1966.9	1966.9	73.2	24.1	14.3	11.8	6.3	3.2				
-10	1.4	2.8	5.2	10.4	13.7	18.3	36.8	70.6	70.6	36.8	18.3	13.7	10.4	5.2	2.8			1.4	
-20		2.1	3.7	7.9	12.4	14.3	18.9	25.1	25.1	18.9	14.3	12.4	7.9	3.7	2.1				
-30	0.7	1.4	2.7	5.6	10.1	13.6	15.1	16.1	16.1	15.1	13.6	10.1	5.6	2.7	1.4			0.7	
-40		0.9	1.9	3.9	6.6	9.7	12.6	15.5	15.5	12.6	9.7	6.6	3.9	1.9	0.9				
-50	0.2	0.5	1.2	2.6	4.0	5.2	7.0	9.9	9.9	7.0	5.2	4.0	2.6	1.2	0.5			0.2	
-60		0.3	0.7	1.4	2.2	2.7	4.4	8.1	8.1	4.4	2.7	2.2	1.4	0.7	0.3				
-70																			
-80	0.0	0.4		1.4		3.1		5.5				3.1		1.4		0.4		0.0	
-90																			

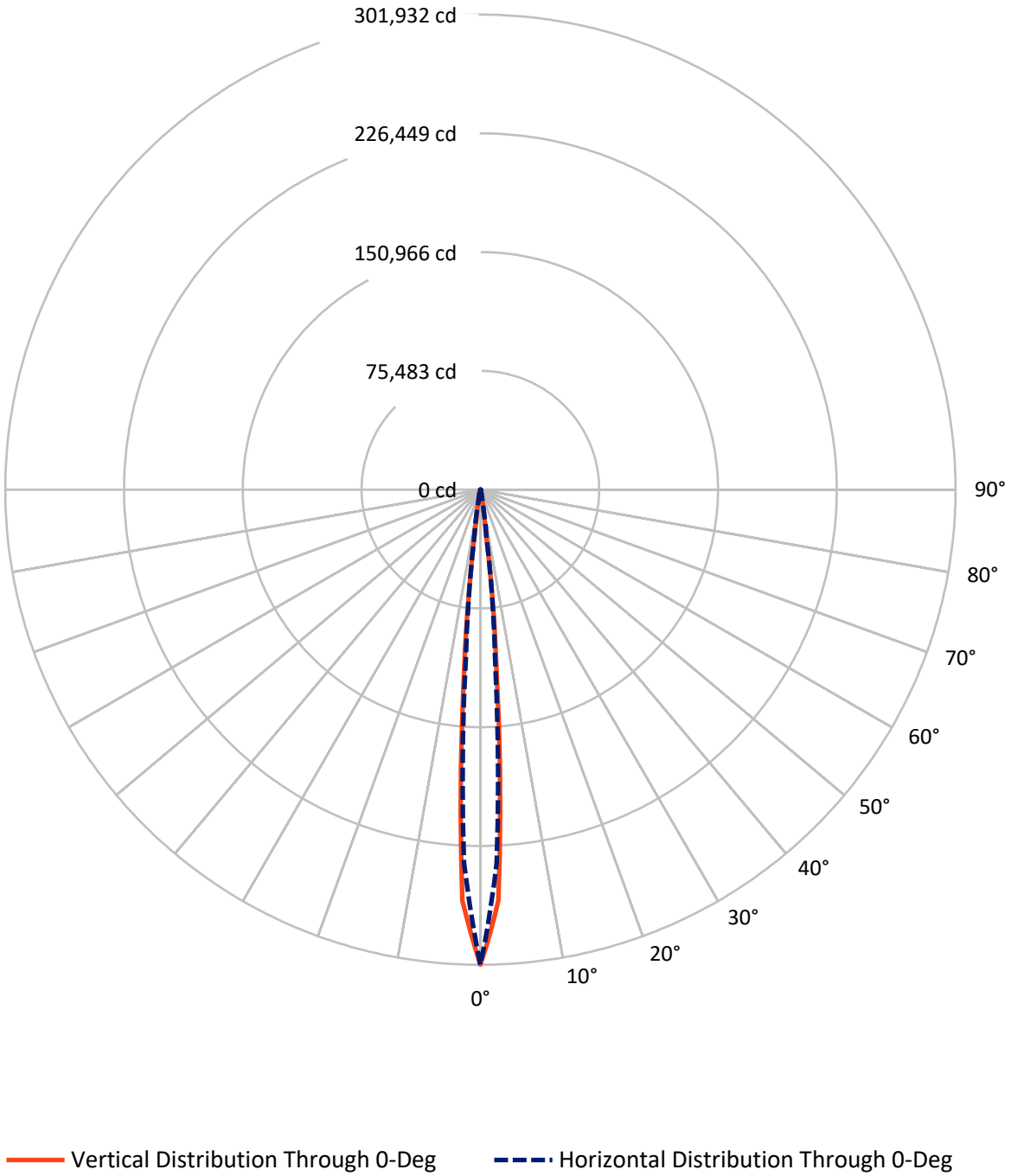
Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

Luminous Intensity Polar Plot

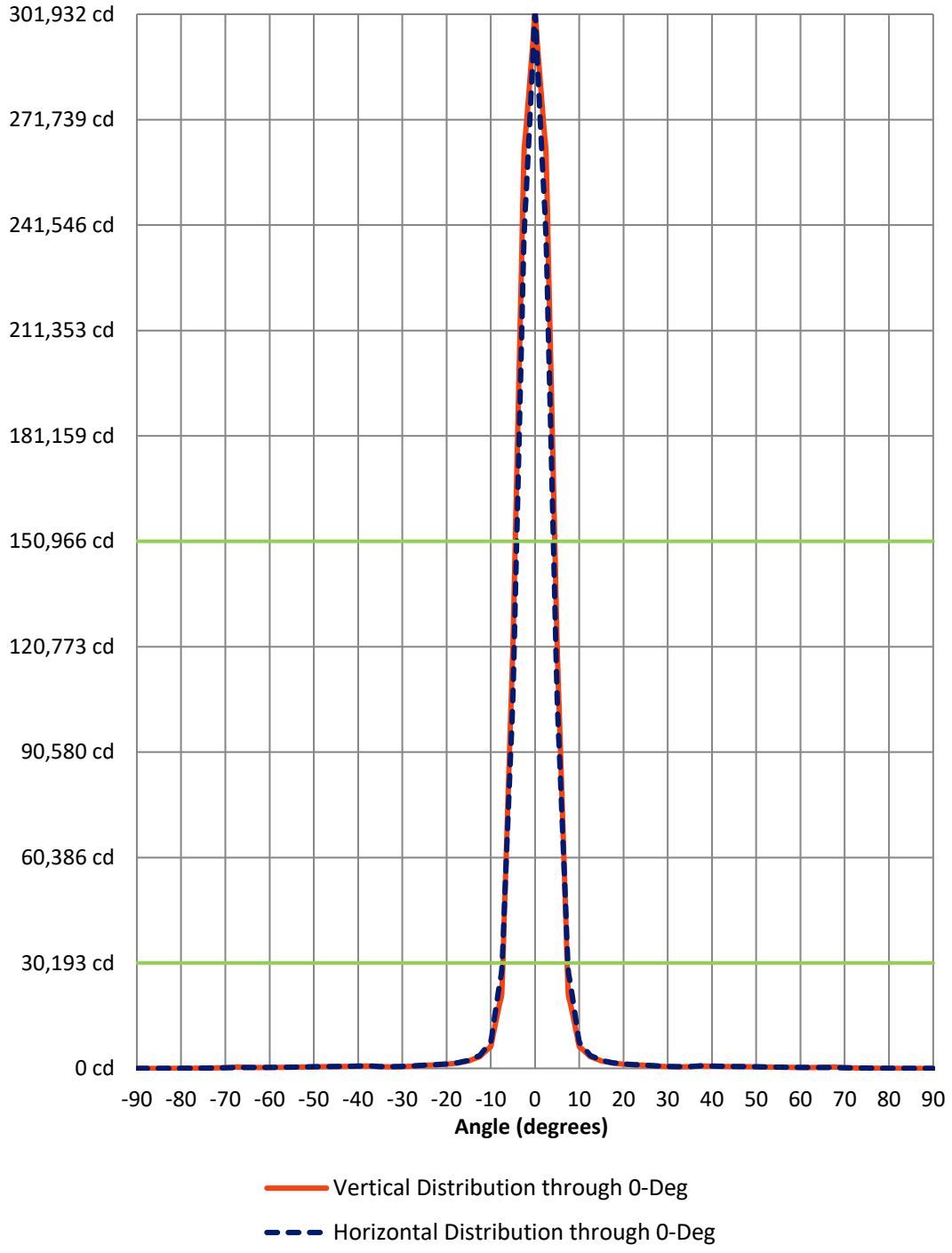


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

Luminous Intensity Plot



Beam:

H Angle:	8.3°
V Angle:	8.9°
Lumens:	3393.9
Efficiency:	33.7%

Field:

H Angle:	14.9°
V Angle:	14.6°
Lumens:	5360.9
Efficiency:	53.2%

Spill:

Lumens:	4713
Efficiency:	46.8%

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	5.3	5.3	5.3	5.3
80°	21.1	21.1	21.1	21.1	21.1	21.1	18.4	18.4	15.8	13.2	13.2
77.5°	39.5	42.1	44.7	42.1	39.5	39.5	36.8	31.6	28.9	23.7	21.1
75°	65.8	71.0	73.7	71.0	68.4	65.8	60.5	52.6	44.7	36.8	31.6
72.5°	118.4	121.0	121.0	115.8	107.9	102.6	94.7	78.9	65.8	52.6	44.7
70°	205.2	213.1	215.8	189.5	165.8	144.7	123.7	105.3	84.2	65.8	57.9
67.5°	394.7	384.2	365.8	294.7	228.9	171.0	131.6	115.8	97.4	78.9	73.7
65°	297.3	289.5	278.9	242.1	205.2	165.8	139.5	123.7	110.5	94.7	92.1
62.5°	250.0	250.0	244.7	221.0	197.4	168.4	150.0	139.5	126.3	113.2	113.2
60°	260.5	265.8	260.5	236.8	210.5	184.2	168.4	157.9	144.7	136.8	136.8
57.5°	294.7	297.3	289.5	263.1	236.8	207.9	192.1	178.9	165.8	157.9	157.9
55°	339.5	336.8	326.3	300.0	273.7	244.7	228.9	210.5	192.1	184.2	184.2
52.5°	381.6	384.2	373.7	350.0	321.0	292.1	273.7	250.0	228.9	221.0	215.8
50°	442.1	444.7	436.8	413.1	389.4	360.5	331.6	300.0	276.3	265.8	255.2
47.5°	494.7	494.7	486.8	471.0	452.6	426.3	394.7	365.8	339.5	321.0	302.6
45°	518.4	518.4	513.1	505.2	494.7	471.0	439.4	407.9	389.4	378.9	363.1
42.5°	560.5	560.5	547.3	531.5	518.4	494.7	465.8	431.5	426.3	415.8	405.2
40°	628.9	605.2	584.2	565.8	544.7	518.4	492.1	468.4	457.9	444.7	434.2
37.5°	692.1	660.5	628.9	600.0	576.3	555.2	521.0	502.6	489.4	473.7	463.1
35°	476.3	465.8	478.9	494.7	518.4	555.2	578.9	552.6	523.6	505.2	492.1
32.5°	455.2	455.2	457.9	457.9	452.6	450.0	473.7	528.9	584.2	555.2	528.9
30°	505.2	515.8	518.4	513.1	494.7	471.0	457.9	455.2	481.5	557.9	578.9
27.5°	652.6	660.5	655.2	636.8	597.3	542.1	507.9	471.0	463.1	463.1	547.3
25°	884.2	881.5	860.5	818.4	757.8	684.2	610.5	534.2	494.7	471.0	468.4
22.5°	1015.7	1015.7	999.9	976.3	936.8	863.1	760.5	657.9	560.5	505.2	473.7
20°	1194.7	1199.9	1181.5	1136.8	1065.7	999.9	923.6	802.6	676.3	565.8	502.6
17.5°	1531.5	1526.2	1484.1	1392.0	1268.3	1155.2	1036.8	944.7	810.5	668.4	550.0
15°	2147.2	2131.4	2013.0	1799.9	1568.3	1368.3	1194.7	1042.0	936.8	776.3	631.5
12.5°	3357.7	3312.9	2991.9	2486.7	2042.0	1634.1	1376.2	1171.0	1015.7	881.5	710.5
10°	6299.6	6252.2	5265.4	3636.6	2794.5	2047.2	1578.8	1294.6	1092.0	957.8	786.8
7.5°	21645.9	18717.2	11586.1	7094.3	3694.5	2536.7	1839.3	1431.5	1176.2	1005.2	852.6
5°	121184.0	100288.0	53251.7	14535.9	5857.5	3147.2	2089.3	1544.6	1234.1	1039.4	892.0
2.5°	261427.2	215956.5	103872.0	26343.0	7217.9	3544.5	2234.1	1597.3	1263.1	1055.2	915.7
0°	301932.3	237407.7	106087.6	28511.2	7562.6	3702.4	2297.2	1620.9	1276.2	1065.7	923.6

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

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°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
82.5°	5.3	5.3	5.3	5.3	5.3	5.3	2.6	2.6	2.6	2.6	2.6
80°	10.5	10.5	10.5	10.5	10.5	7.9	7.9	7.9	5.3	5.3	5.3
77.5°	21.1	21.1	18.4	18.4	15.8	15.8	15.8	13.2	10.5	10.5	7.9
75°	31.6	31.6	31.6	28.9	26.3	23.7	23.7	21.1	18.4	15.8	15.8
72.5°	44.7	44.7	44.7	42.1	39.5	36.8	31.6	28.9	26.3	23.7	21.1
70°	57.9	57.9	57.9	55.3	55.3	52.6	47.4	42.1	36.8	31.6	28.9
67.5°	73.7	73.7	73.7	68.4	65.8	63.2	60.5	55.3	50.0	42.1	36.8
65°	92.1	92.1	92.1	84.2	78.9	76.3	71.0	65.8	57.9	52.6	44.7
62.5°	115.8	115.8	110.5	102.6	94.7	86.8	81.6	76.3	68.4	60.5	52.6
60°	136.8	136.8	134.2	123.7	113.2	100.0	94.7	86.8	78.9	71.0	60.5
57.5°	157.9	157.9	152.6	142.1	131.6	121.0	110.5	102.6	92.1	81.6	71.0
55°	181.6	178.9	171.0	160.5	150.0	139.5	131.6	121.0	110.5	97.4	81.6
52.5°	210.5	202.6	189.5	178.9	165.8	155.3	147.4	136.8	126.3	110.5	92.1
50°	244.7	231.6	213.1	197.4	184.2	173.7	163.1	152.6	142.1	123.7	105.3
47.5°	286.8	265.8	244.7	223.7	205.2	192.1	178.9	168.4	152.6	134.2	115.8
45°	336.8	305.2	281.6	255.2	234.2	213.1	197.4	184.2	163.1	142.1	123.7
42.5°	386.8	360.5	326.3	292.1	265.8	239.5	218.4	197.4	176.3	152.6	131.6
40°	421.0	400.0	376.3	339.5	302.6	271.0	242.1	213.1	186.8	163.1	139.5
37.5°	447.3	431.5	410.5	384.2	347.3	307.9	268.4	231.6	200.0	173.7	150.0
35°	476.3	457.9	436.8	415.8	386.8	344.7	294.7	252.6	215.8	184.2	163.1
32.5°	507.9	481.5	460.5	436.8	415.8	381.6	328.9	276.3	231.6	200.0	178.9
30°	544.7	510.5	481.5	457.9	434.2	402.6	363.1	302.6	255.2	221.0	194.7
27.5°	584.2	534.2	502.6	476.3	452.6	423.7	386.8	334.2	284.2	242.1	210.5
25°	547.3	573.6	523.6	494.7	468.4	439.4	407.9	373.7	315.8	268.4	231.6
22.5°	471.0	563.1	560.5	518.4	486.8	460.5	442.1	405.2	352.6	294.7	250.0
20°	476.3	502.6	600.0	542.1	510.5	492.1	473.7	439.4	386.8	318.4	268.4
17.5°	492.1	481.5	552.6	578.9	542.1	518.4	505.2	473.7	418.4	350.0	297.3
15°	534.2	489.4	510.5	610.5	571.0	544.7	536.8	497.3	447.3	384.2	326.3
12.5°	571.0	502.6	492.1	589.4	597.3	568.4	550.0	515.8	471.0	413.1	352.6
10°	631.5	534.2	500.0	565.8	623.6	589.4	560.5	531.5	489.4	439.4	378.9
7.5°	678.9	552.6	502.6	547.3	650.0	605.2	571.0	539.4	505.2	460.5	400.0
5°	700.0	560.5	500.0	531.5	678.9	623.6	584.2	547.3	515.8	473.7	410.5
2.5°	710.5	563.1	497.3	518.4	707.8	647.3	589.4	547.3	515.8	476.3	410.5
0°	*715.7*	*557.9*	*497.3*	*526.3*	*728.9*	*671.0*	*592.1*	*547.3*	*513.1*	*473.7*	*405.2*

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

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°	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	5.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	7.9	7.9	5.3	5.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	13.2	10.5	10.5	7.9	7.9	5.3	2.6	2.6	2.6	2.6	2.6
72.5°	18.4	15.8	13.2	10.5	10.5	7.9	5.3	2.6	2.6	2.6	2.6
70°	23.7	21.1	15.8	13.2	13.2	10.5	7.9	5.3	2.6	2.6	2.6
67.5°	31.6	26.3	21.1	15.8	15.8	13.2	10.5	7.9	5.3	2.6	2.6
65°	39.5	31.6	26.3	21.1	18.4	15.8	13.2	10.5	7.9	2.6	2.6
62.5°	44.7	39.5	31.6	26.3	23.7	18.4	15.8	13.2	7.9	5.3	2.6
60°	52.6	44.7	36.8	31.6	28.9	23.7	18.4	15.8	10.5	7.9	2.6
57.5°	60.5	50.0	42.1	36.8	34.2	28.9	23.7	18.4	13.2	7.9	5.3
55°	68.4	57.9	47.4	44.7	39.5	34.2	28.9	21.1	15.8	10.5	5.3
52.5°	76.3	63.2	55.3	52.6	47.4	39.5	31.6	26.3	18.4	13.2	7.9
50°	86.8	71.0	63.2	60.5	52.6	44.7	36.8	31.6	23.7	15.8	7.9
47.5°	97.4	78.9	73.7	68.4	60.5	52.6	42.1	36.8	26.3	18.4	10.5
45°	105.3	92.1	84.2	78.9	68.4	60.5	50.0	42.1	28.9	21.1	10.5
42.5°	110.5	102.6	97.4	89.5	78.9	65.8	55.3	47.4	34.2	23.7	13.2
40°	123.7	115.8	107.9	100.0	89.5	73.7	63.2	52.6	39.5	26.3	13.2
37.5°	136.8	126.3	118.4	110.5	100.0	84.2	73.7	57.9	44.7	28.9	15.8
35°	150.0	139.5	128.9	121.0	110.5	97.4	81.6	65.8	50.0	31.6	18.4
32.5°	163.1	150.0	139.5	128.9	123.7	107.9	89.5	71.0	55.3	34.2	18.4
30°	176.3	160.5	150.0	142.1	136.8	121.0	100.0	78.9	60.5	39.5	21.1
27.5°	189.5	171.0	157.9	157.9	152.6	134.2	107.9	86.8	65.8	42.1	23.7
25°	202.6	181.6	176.3	173.7	171.0	147.4	118.4	94.7	68.4	47.4	23.7
22.5°	215.8	200.0	192.1	189.5	184.2	160.5	128.9	100.0	73.7	50.0	26.3
20°	236.8	221.0	210.5	202.6	200.0	176.3	139.5	107.9	78.9	50.0	26.3
17.5°	263.1	239.5	226.3	218.4	213.1	189.5	150.0	115.8	81.6	50.0	26.3
15°	286.8	260.5	242.1	231.6	226.3	205.2	157.9	118.4	84.2	50.0	26.3
12.5°	310.5	278.9	257.9	247.4	239.5	221.0	165.8	121.0	84.2	50.0	26.3
10°	331.6	297.3	276.3	260.5	250.0	226.3	168.4	123.7	84.2	50.0	26.3
7.5°	350.0	313.1	284.2	260.5	250.0	231.6	168.4	126.3	84.2	50.0	28.9
5°	352.6	313.1	281.6	260.5	252.6	234.2	171.0	126.3	84.2	47.4	26.3
2.5°	355.2	313.1	281.6	260.5	252.6	234.2	171.0	126.3	84.2	47.4	26.3
0°	*352.6*	*310.5*	*278.9*	*260.5*	*252.6*	*234.2*	*171.0*	*126.3*	*81.6*	*44.7*	*26.3*

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P722837
CATALOG NUMBER: IFLD-M-SA4B-727-U-11

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
80°	2.6	0.0	0.0	0.0
77.5°	2.6	0.0	0.0	0.0
75°	2.6	2.6	0.0	0.0
72.5°	2.6	2.6	0.0	0.0
70°	2.6	2.6	0.0	0.0
67.5°	2.6	2.6	0.0	0.0
65°	2.6	2.6	0.0	0.0
62.5°	2.6	2.6	0.0	0.0
60°	2.6	2.6	0.0	0.0
57.5°	2.6	2.6	2.6	0.0
55°	2.6	2.6	2.6	0.0
52.5°	2.6	2.6	2.6	0.0
50°	2.6	2.6	2.6	0.0
47.5°	2.6	2.6	2.6	0.0
45°	2.6	2.6	2.6	0.0
42.5°	5.3	2.6	2.6	0.0
40°	5.3	2.6	2.6	0.0
37.5°	7.9	2.6	2.6	0.0
35°	7.9	2.6	2.6	0.0
32.5°	7.9	2.6	2.6	0.0
30°	7.9	2.6	2.6	0.0
27.5°	10.5	2.6	2.6	0.0
25°	10.5	2.6	2.6	0.0
22.5°	10.5	2.6	2.6	0.0
20°	10.5	2.6	2.6	0.0
17.5°	10.5	2.6	2.6	0.0
15°	13.2	2.6	2.6	0.0
12.5°	13.2	2.6	2.6	0.0
10°	13.2	2.6	2.6	0.0
7.5°	13.2	2.6	2.6	0.0
5°	13.2	2.6	2.6	0.0
2.5°	13.2	2.6	2.6	0.0
0°	*13.2*	*2.6*	*2.6*	*0.0*

(END OF REPORT)