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: P623195

Luminaire Tested: **IFLD-S-SA2A-830-U-33**

Issue Date: 10/13/2022

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:	P623195
Test Lab:	INNOVATION CENTER(G2)
Issue Date:	10/13/2022
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	IFLD-S-SA2A-830-U-33
Description:	Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	7633.1 lumens	Max Intensity:	71027.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	119.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		

Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	1669.2 lumens	Field Lumens:	3886.5 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W):	63.8
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

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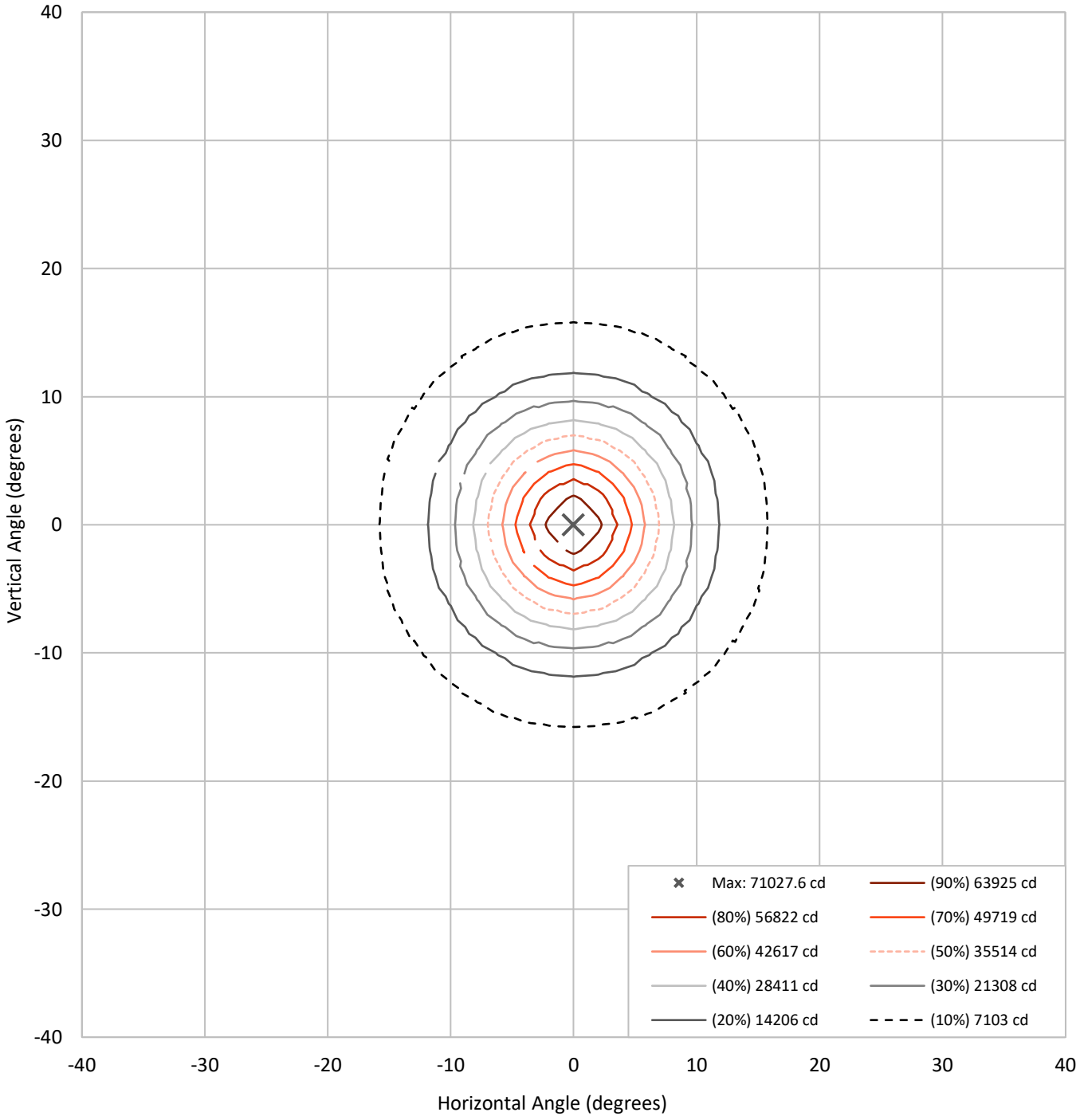
Iso-Candela Plot



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Lumen Table

Vertical Angle (degrees)	-90 to -81	-81 to -72	-72 to -63	-63 to -54	-54 to -45	-45 to -36	-36 to -27	-27 to -18	-18 to -9	-9 to 0	0 to 9	9 to 18	18 to 27	27 to 36	36 to 45	45 to 54	54 to 63	63 to 72	72 to 81	81 to 90
90	0.1	1.0		2.6		4.3		5.0		4.3		2.6		1.0		0.1				
70	0.5	0.5	1.1	1.8	2.5	3.1	3.6	3.9	3.9	3.6	3.1	2.5	1.8	1.1	0.5	0.5				
60		0.8	1.6	2.6	3.6	4.5	5.2	5.6	5.6	5.2	4.5	3.6	2.6	1.6	0.8					
50	0.8	1.1	2.2	3.4	4.7	6.0	7.3	8.1	8.1	7.3	6.0	4.7	3.4	2.2	1.1	0.8				
40		1.3	2.6	4.1	5.9	8.5	11.6	14.3	14.3	11.6	8.5	5.9	4.1	2.6	1.3					
30	1.1	1.5	2.9	4.7	7.7	13.6	27.8	47.5	47.5	27.8	13.6	7.7	4.7	2.9	1.5	1.1				
20		1.6	3.1	5.4	9.9	26.2	94.1	233.7	233.7	94.1	26.2	9.9	5.4	3.1	1.6					
10	1.2	1.7	3.2	5.8	11.8	43.6	227.7	999.9	999.9	227.7	43.6	11.8	5.8	3.2	1.7	1.2				
0		1.7	3.2	5.8	11.8	43.6	227.7	999.9	999.9	227.7	43.6	11.8	5.8	3.2	1.7					
-10	1.1	1.6	3.1	5.4	9.9	26.2	94.1	233.7	233.7	94.1	26.2	9.9	5.4	3.1	1.6	1.1				
-20		1.5	2.9	4.7	7.7	13.6	27.8	47.5	47.5	27.8	13.6	7.7	4.7	2.9	1.5					
-30	0.8	1.3	2.6	4.1	5.9	8.5	11.6	14.3	14.3	11.6	8.5	5.9	4.1	2.6	1.3	0.8				
-40		1.1	2.2	3.4	4.7	6.0	7.3	8.1	8.1	7.3	6.0	4.7	3.4	2.2	1.1					
-50	0.5	0.8	1.6	2.6	3.6	4.5	5.2	5.6	5.6	5.2	4.5	3.6	2.6	1.6	0.8	0.5				
-60		0.5	1.1	1.8	2.5	3.1	3.6	3.9	3.9	3.6	3.1	2.5	1.8	1.1	0.5					
-70	0.1	1.0		2.6		4.3		5.0		4.3		2.6		1.0		0.1				
-90																				

Horizontal Angle (degrees)

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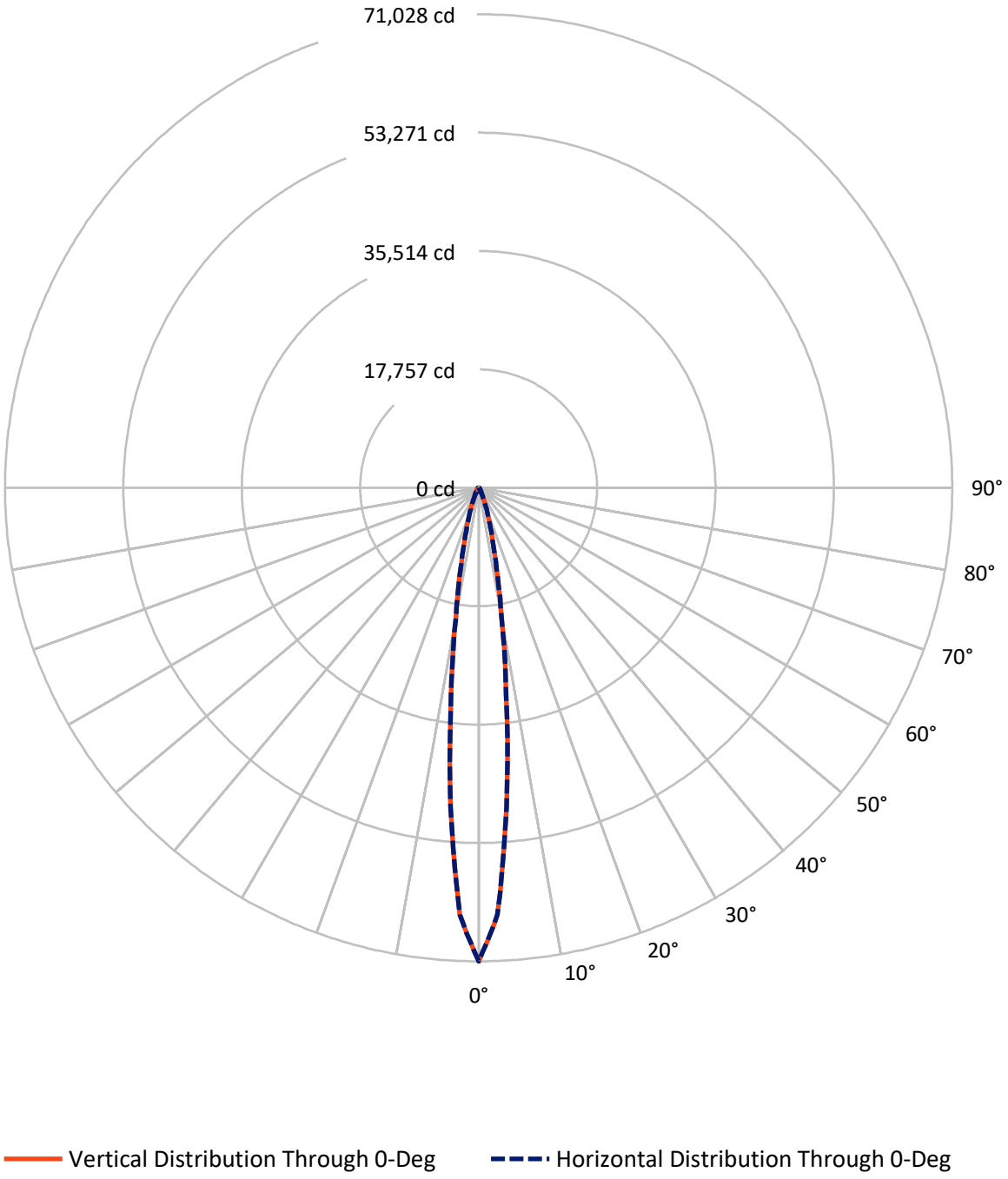
Luminous Intensity Polar Plot



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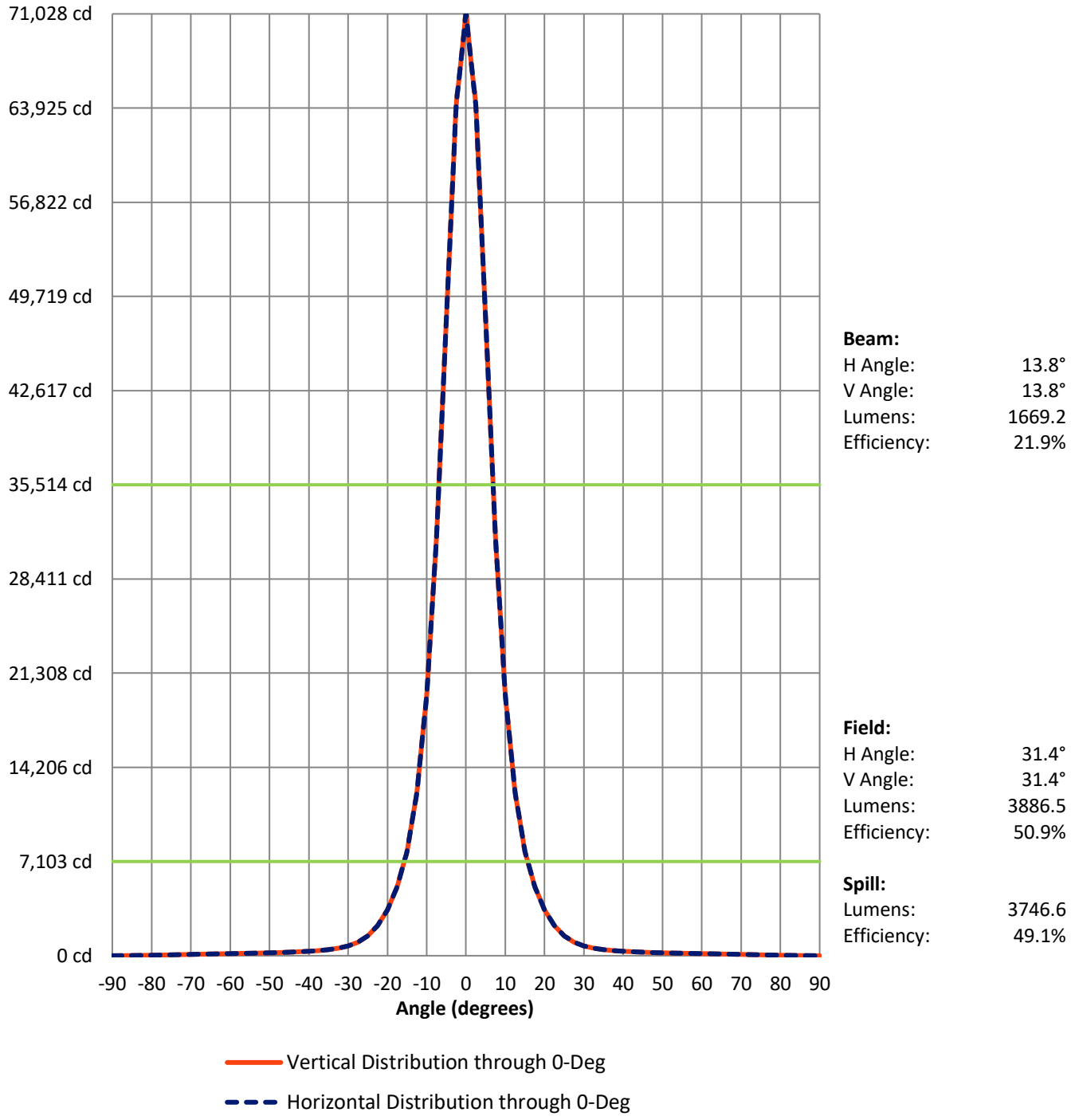
Luminous Intensity Plot



Beam:

H Angle:	13.8°
V Angle:	13.8°
Lumens:	1669.2
Efficiency:	21.9%

Field:

H Angle:	31.4°
V Angle:	31.4°
Lumens:	3886.5
Efficiency:	50.9%

Spill:

Lumens:	3746.6
Efficiency:	49.1%

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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°	*6.4*	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.6	5.6
85°	*14.3*	14.3	14.3	14.3	14.3	14.3	13.5	13.5	13.5	12.7	12.7
82.5°	*23.8*	23.8	23.8	23.8	23.0	23.0	23.0	22.2	22.2	21.4	21.4
80°	*36.5*	36.5	36.5	36.5	35.7	34.9	34.9	34.1	33.4	32.6	31.8
77.5°	*50.0*	50.0	50.0	49.2	49.2	48.4	47.6	46.9	46.1	44.5	43.7
75°	*65.9*	65.9	65.9	65.1	64.3	63.5	62.7	61.1	60.4	58.8	57.2
72.5°	*82.6*	82.6	82.6	81.8	81.0	79.4	78.6	77.0	75.4	73.1	71.5
70°	*98.5*	98.5	98.5	97.7	96.1	95.3	93.7	92.1	90.5	88.1	85.8
67.5°	*114.4*	114.4	114.4	112.8	112.0	111.2	109.6	107.2	105.6	103.2	100.1
65°	*129.4*	129.4	128.6	127.9	127.1	125.5	123.9	122.3	119.9	117.5	114.4
62.5°	*144.5*	144.5	143.7	142.9	142.1	140.6	138.2	136.6	133.4	131.0	127.9
60°	*157.2*	157.2	156.4	155.6	154.8	153.3	151.7	149.3	146.9	144.5	141.4
57.5°	*170.7*	170.7	169.9	169.1	167.6	166.0	164.4	162.0	158.8	155.6	153.3
55°	*185.8*	185.8	185.0	183.4	181.8	180.3	177.9	174.7	171.5	168.3	164.4
52.5°	*200.1*	200.1	199.3	197.7	196.1	194.6	191.4	189.0	185.0	181.1	176.3
50°	*217.6*	217.6	216.0	214.4	212.8	209.6	206.5	202.5	198.5	193.8	189.8
47.5°	*237.4*	237.4	235.8	234.3	231.1	227.9	223.1	218.4	213.6	208.1	201.7
45°	*265.2*	265.2	262.8	259.7	255.7	250.1	243.8	237.4	230.3	223.9	216.8
42.5°	*299.4*	299.4	296.2	292.2	286.7	279.5	270.8	262.1	252.5	242.2	232.7
40°	*335.1*	335.1	331.1	327.2	320.8	312.1	302.6	291.4	279.5	266.0	254.1
37.5°	*384.3*	384.3	378.8	371.6	362.1	350.2	335.9	323.2	309.7	294.6	278.7
35°	*457.4*	457.4	448.7	436.8	421.7	401.8	380.4	362.1	341.5	323.2	305.7
32.5°	*565.4*	565.4	550.3	532.8	507.4	475.7	444.7	415.3	384.3	358.1	332.7
30°	*735.3*	735.3	709.9	678.2	635.3	580.5	534.4	486.8	441.5	403.4	368.5
27.5°	*1018.0*	1006.1	971.2	913.2	833.8	735.3	664.7	584.5	520.9	459.0	413.7
25°	*1494.5*	1472.3	1406.4	1297.6	1150.7	987.9	859.2	722.6	625.8	537.6	466.9
22.5°	*2268.7*	2228.2	2107.5	1910.6	1644.6	1384.1	1146.7	936.2	763.1	640.0	537.6
20°	*3447.2*	3376.5	3168.5	2831.8	2377.5	1974.9	1551.7	1239.6	962.5	763.1	625.8
17.5°	*5218.0*	5095.7	4737.6	4160.3	3447.2	2791.3	2146.5	1632.7	1239.6	936.2	722.6
15°	*7867.2*	7652.8	7027.0	6032.0	4889.3	3849.0	2933.4	2146.5	1551.7	1146.7	859.2
12.5°	*12314.9*	11881.3	10628.3	8674.0	6852.3	5142.6	3849.0	2791.3	1974.9	1384.1	987.9
10°	*19663.5*	18767.8	16227.5	12382.4	9457.7	6852.3	4889.3	3447.2	2377.5	1644.6	1150.7
7.5°	*31575.1*	29652.5	24399.6	17925.3	12382.4	8674.0	6032.0	4160.3	2831.8	1910.6	1297.6
5°	*48004.2*	44135.4	34423.5	24399.6	16227.5	10628.3	7027.0	4737.6	3168.5	2107.5	1406.4
2.5°	*64111.8*	57443.7	44135.4	29652.5	18767.8	11881.3	7652.8	5095.7	3376.5	2228.2	1472.3
0°	*71027.6*	*64111.8*	*48004.2*	*31575.1*	*19663.5*	*12314.9*	*7867.2*	*5218.0*	*3447.2*	*2268.7*	*1494.5*

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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°	5.6	5.6	5.6	5.6	4.8	4.8	4.8	4.8	4.0	4.0	4.0
85°	12.7	11.9	11.9	11.1	11.1	10.3	10.3	9.5	9.5	8.7	7.9
82.5°	20.6	19.9	19.1	18.3	18.3	17.5	16.7	15.1	14.3	13.5	12.7
80°	31.0	29.4	28.6	27.0	26.2	24.6	23.0	22.2	20.6	19.9	18.3
77.5°	42.1	40.5	39.7	37.3	35.7	34.1	32.6	30.2	28.6	26.2	23.8
75°	54.8	53.2	50.8	48.4	46.9	44.5	42.1	39.7	36.5	34.1	31.8
72.5°	69.1	66.7	64.3	61.1	58.0	55.6	51.6	48.4	46.1	42.9	39.7
70°	83.4	81.0	77.8	74.6	70.7	67.5	63.5	59.6	55.6	51.6	47.6
67.5°	97.7	94.5	91.3	87.4	83.4	79.4	75.4	70.7	65.9	61.1	56.4
65°	111.2	108.0	104.0	100.1	96.1	91.3	86.6	81.8	76.2	70.7	65.9
62.5°	124.7	120.7	116.7	112.8	108.0	103.2	98.5	92.1	86.6	81.0	74.6
60°	137.4	133.4	129.4	124.7	119.9	114.4	108.8	103.2	96.9	90.5	84.2
57.5°	149.3	145.3	141.4	135.8	131.0	125.5	119.1	113.6	106.4	100.1	92.9
55°	160.4	156.4	151.7	146.9	142.1	135.8	129.4	123.1	115.9	108.8	100.9
52.5°	171.5	166.8	162.0	157.2	151.7	146.1	139.8	132.6	125.5	117.5	109.6
50°	184.2	178.7	172.3	166.8	160.4	154.8	148.5	141.4	134.2	125.5	117.5
47.5°	196.1	190.6	184.2	177.1	170.7	163.6	156.4	150.1	142.1	134.2	125.5
45°	209.6	201.7	195.3	188.2	180.3	172.3	165.2	157.2	150.1	141.4	132.6
42.5°	223.9	215.2	206.5	197.7	190.6	181.8	173.1	165.2	156.4	148.5	139.8
40°	240.6	230.3	219.2	209.6	200.1	191.4	181.8	172.3	163.6	154.8	146.1
37.5°	262.1	247.8	233.5	221.6	210.4	200.1	190.6	180.3	170.7	160.4	151.7
35°	287.5	267.6	250.9	234.3	221.6	209.6	197.7	188.2	177.1	166.8	157.2
32.5°	312.9	291.4	270.0	250.9	233.5	219.2	206.5	195.3	184.2	172.3	162.0
30°	339.1	315.3	291.4	267.6	247.8	230.3	215.2	201.7	190.6	178.7	166.8
27.5°	372.4	339.1	312.9	287.5	262.1	240.6	223.9	209.6	196.1	184.2	171.5
25°	413.7	368.5	332.7	305.7	278.7	254.1	232.7	216.8	201.7	189.8	176.3
22.5°	459.0	403.4	358.1	323.2	294.6	266.0	242.2	223.9	208.1	193.8	181.1
20°	520.9	441.5	384.3	341.5	309.7	279.5	252.5	230.3	213.6	198.5	185.0
17.5°	584.5	486.8	415.3	362.1	323.2	291.4	262.1	237.4	218.4	202.5	189.0
15°	664.7	534.4	444.7	380.4	335.9	302.6	270.8	243.8	223.1	206.5	191.4
12.5°	735.3	580.5	475.7	401.8	350.2	312.1	279.5	250.1	227.9	209.6	194.6
10°	833.8	635.3	507.4	421.7	362.1	320.8	286.7	255.7	231.1	212.8	196.1
7.5°	913.2	678.2	532.8	436.8	371.6	327.2	292.2	259.7	234.3	214.4	197.7
5°	971.2	709.9	550.3	448.7	378.8	331.1	296.2	262.8	235.8	216.0	199.3
2.5°	1006.1	735.3	565.4	457.4	384.3	335.1	299.4	265.2	237.4	217.6	200.1
0°	*1018.0*	*735.3*	*565.4*	*457.4*	*384.3*	*335.1*	*299.4*	*265.2*	*237.4*	*217.6*	*200.1*

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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°	4.0	3.2	3.2	3.2	2.4	2.4	2.4	1.6	1.6	1.6	0.8
85°	7.1	7.1	6.4	5.6	5.6	4.8	4.0	4.0	3.2	2.4	2.4
82.5°	11.9	11.1	10.3	9.5	8.7	7.1	6.4	5.6	4.8	4.0	3.2
80°	16.7	15.9	14.3	12.7	11.9	10.3	9.5	7.9	6.4	5.6	4.8
77.5°	22.2	20.6	19.1	17.5	15.1	13.5	11.9	10.3	8.7	7.1	5.6
75°	29.4	26.2	23.8	21.4	19.1	16.7	14.3	12.7	10.3	8.7	6.4
72.5°	36.5	33.4	29.4	26.2	23.0	20.6	17.5	15.1	12.7	10.3	7.9
70°	43.7	39.7	35.7	31.8	27.8	23.8	20.6	17.5	14.3	11.9	9.5
67.5°	50.8	46.9	42.1	37.3	33.4	28.6	23.8	20.6	16.7	13.5	10.3
65°	59.6	54.0	48.4	43.7	38.1	33.4	27.8	23.0	19.1	15.1	11.9
62.5°	68.3	61.9	55.6	49.2	43.7	37.3	31.8	26.2	21.4	17.5	12.7
60°	77.0	69.9	62.7	55.6	48.4	42.1	35.7	29.4	23.8	19.1	14.3
57.5°	85.8	77.8	69.9	61.9	54.0	46.9	39.7	33.4	26.2	20.6	15.9
55°	93.7	85.8	77.0	68.3	59.6	50.8	43.7	36.5	29.4	22.2	16.7
52.5°	100.9	92.9	84.2	74.6	65.9	56.4	47.6	39.7	31.8	23.8	18.3
50°	108.8	100.1	90.5	81.0	70.7	61.1	51.6	42.9	34.1	26.2	19.9
47.5°	115.9	106.4	96.9	86.6	76.2	65.9	55.6	46.1	36.5	28.6	20.6
45°	123.1	113.6	103.2	92.1	81.8	70.7	59.6	48.4	39.7	30.2	22.2
42.5°	129.4	119.1	108.8	98.5	86.6	75.4	63.5	51.6	42.1	32.6	23.0
40°	135.8	125.5	114.4	103.2	91.3	79.4	67.5	55.6	44.5	34.1	24.6
37.5°	142.1	131.0	119.9	108.0	96.1	83.4	70.7	58.0	46.9	35.7	26.2
35°	146.9	135.8	124.7	112.8	100.1	87.4	74.6	61.1	48.4	37.3	27.0
32.5°	151.7	141.4	129.4	116.7	104.0	91.3	77.8	64.3	50.8	39.7	28.6
30°	156.4	145.3	133.4	120.7	108.0	94.5	81.0	66.7	53.2	40.5	29.4
27.5°	160.4	149.3	137.4	124.7	111.2	97.7	83.4	69.1	54.8	42.1	31.0
25°	164.4	153.3	141.4	127.9	114.4	100.1	85.8	71.5	57.2	43.7	31.8
22.5°	168.3	155.6	144.5	131.0	117.5	103.2	88.1	73.1	58.8	44.5	32.6
20°	171.5	158.8	146.9	133.4	119.9	105.6	90.5	75.4	60.4	46.1	33.4
17.5°	174.7	162.0	149.3	136.6	122.3	107.2	92.1	77.0	61.1	46.9	34.1
15°	177.9	164.4	151.7	138.2	123.9	109.6	93.7	78.6	62.7	47.6	34.9
12.5°	180.3	166.0	153.3	140.6	125.5	111.2	95.3	79.4	63.5	48.4	34.9
10°	181.8	167.6	154.8	142.1	127.1	112.0	96.1	81.0	64.3	49.2	35.7
7.5°	183.4	169.1	155.6	142.9	127.9	112.8	97.7	81.8	65.1	49.2	36.5
5°	185.0	169.9	156.4	143.7	128.6	114.4	98.5	82.6	65.9	50.0	36.5
2.5°	185.8	170.7	157.2	144.5	129.4	114.4	98.5	82.6	65.9	50.0	36.5
0°	*185.8*	*170.7*	*157.2*	*144.5*	*129.4*	*114.4*	*98.5*	*82.6*	*65.9*	*50.0*	*36.5*

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

Scaled Data Report

REPORT NUMBER: P623195
CATALOG NUMBER: IFLD-S-SA2A-830-U-33

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.0	0.0
85°	1.6	0.8	0.8	0.0
82.5°	2.4	1.6	0.8	0.0
80°	3.2	2.4	0.8	0.0
77.5°	4.0	2.4	1.6	0.0
75°	4.8	3.2	1.6	0.0
72.5°	5.6	4.0	1.6	0.0
70°	6.4	4.0	2.4	0.0
67.5°	7.1	4.8	2.4	0.0
65°	8.7	5.6	2.4	0.0
62.5°	9.5	5.6	3.2	0.0
60°	10.3	6.4	3.2	0.0
57.5°	11.1	7.1	3.2	0.0
55°	11.9	7.1	4.0	0.0
52.5°	12.7	7.9	4.0	0.0
50°	13.5	8.7	4.0	0.0
47.5°	14.3	9.5	4.0	0.0
45°	15.1	9.5	4.8	0.0
42.5°	16.7	10.3	4.8	0.0
40°	17.5	10.3	4.8	0.0
37.5°	18.3	11.1	4.8	0.0
35°	18.3	11.1	5.6	0.0
32.5°	19.1	11.9	5.6	0.0
30°	19.9	11.9	5.6	0.0
27.5°	20.6	12.7	5.6	0.0
25°	21.4	12.7	5.6	0.0
22.5°	21.4	12.7	5.6	0.0
20°	22.2	13.5	6.4	0.0
17.5°	22.2	13.5	6.4	0.0
15°	23.0	13.5	6.4	0.0
12.5°	23.0	14.3	6.4	0.0
10°	23.0	14.3	6.4	0.0
7.5°	23.8	14.3	6.4	0.0
5°	23.8	14.3	6.4	0.0
2.5°	23.8	14.3	6.4	0.0
0°	*23.8*	*14.3*	*6.4*	*0.0*

(END OF REPORT)