

Classified
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

Brand: HALO

Report Number: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLS15FSUNVDBZK-12W-4000K

Issue Date: 4/3/2023

Test Information

Test Method: LM-79-2019
Report Number: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 4/3/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: GFLS15FSUNVDBZK-12W-4000K
Description: SLIM LED FLOODLIGHT
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

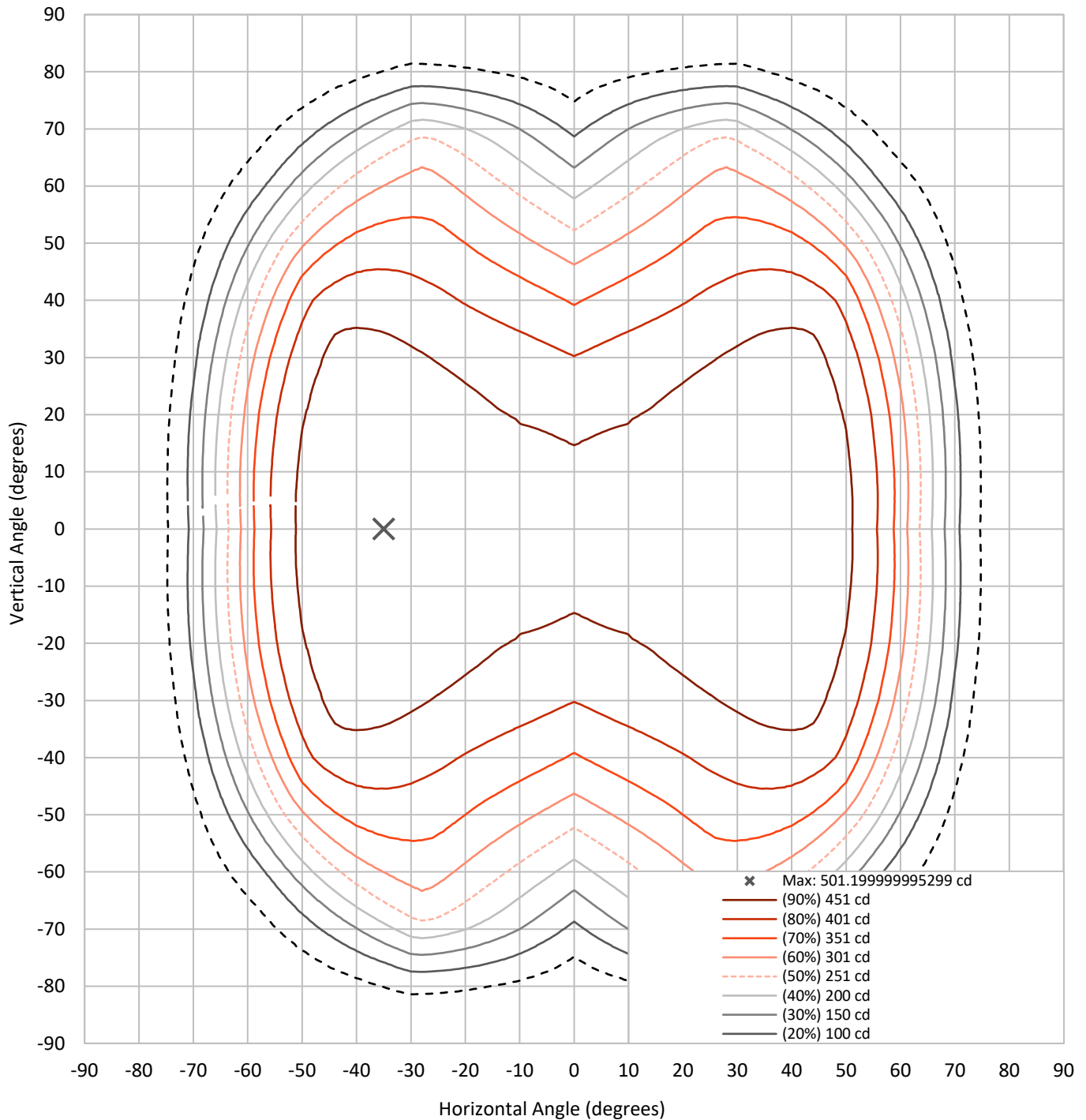
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	1723.9 lumens	Max Intensity:	501.2 candela
Efficiency:	N/A	Max Intensity Angle:	-35°H x 0°V
Efficacy:	152.6 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.2' x L: 0.31' x H: 0.15')		
Beam Angle (50%):	127°H x 130.8°V	Field Angle (10%):	149.3°H x 160.3°V
Beam Lumens:	1496.3 lumens	Field Lumens:	1702.9 lumens
Beam Efficiency:	86.8%	Field Efficiency:	98.8%
Input Watts (W):	11.3		
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: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

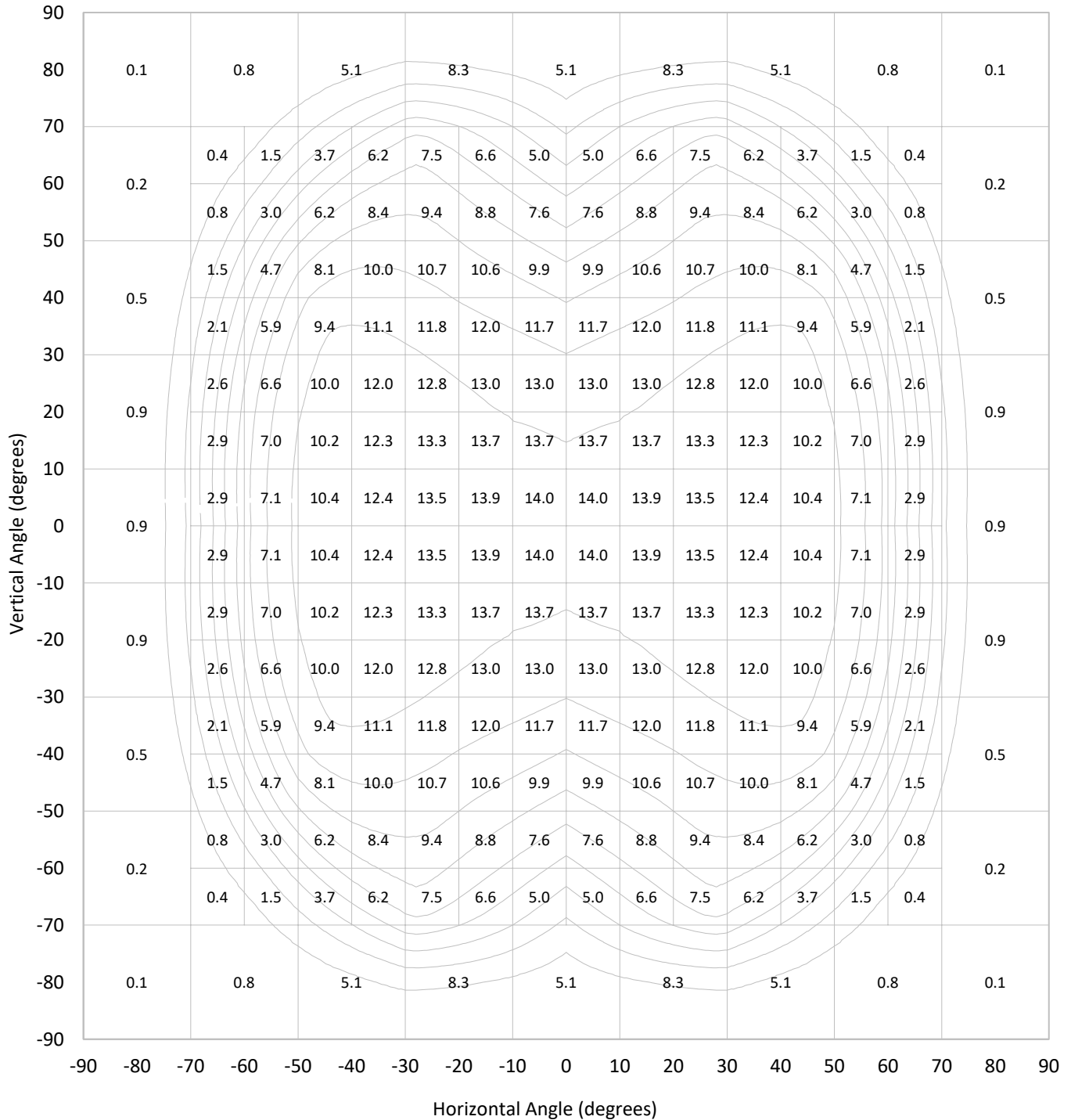
Iso-Candela Plot





REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

Lumen Table



Classified

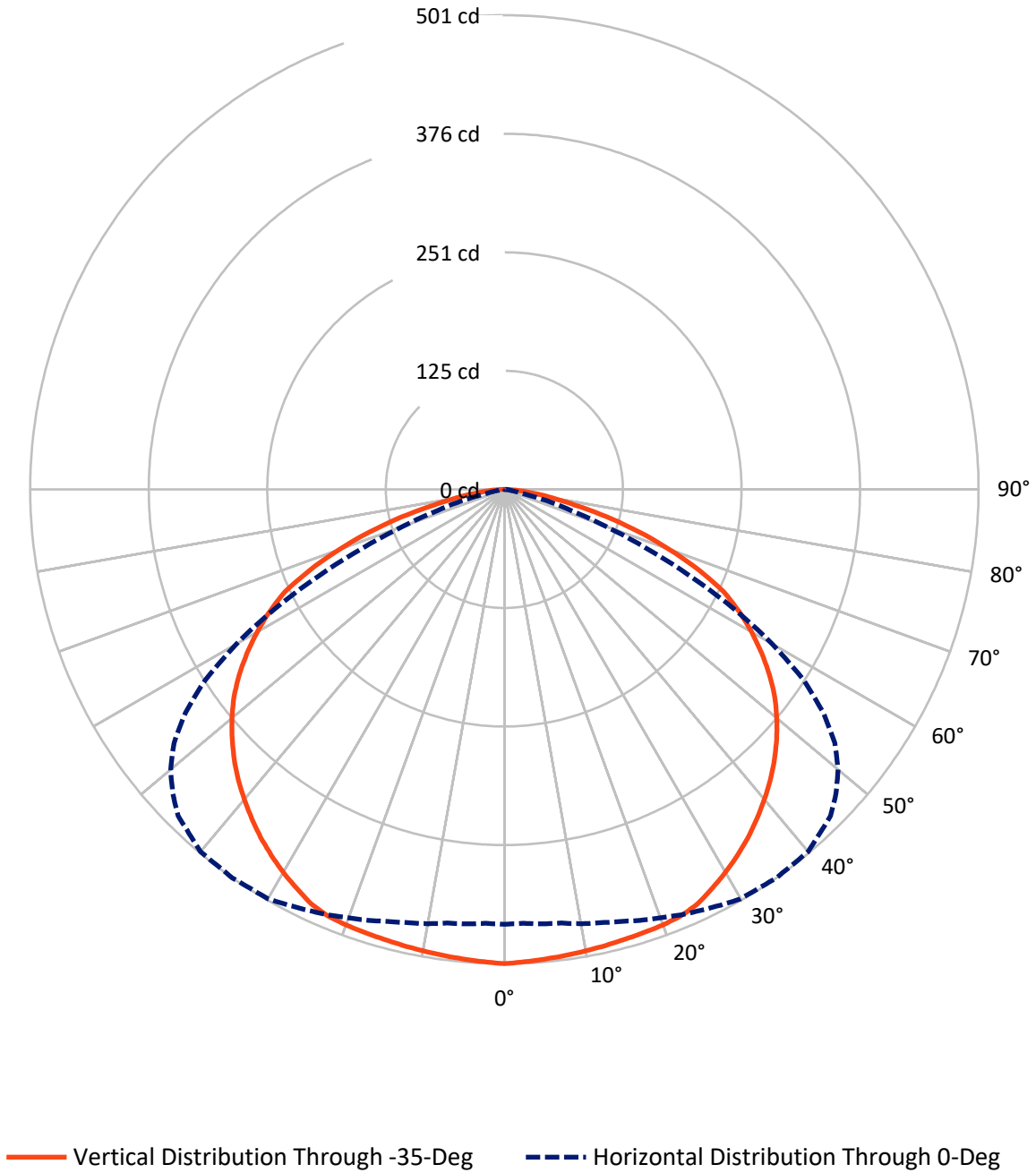
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



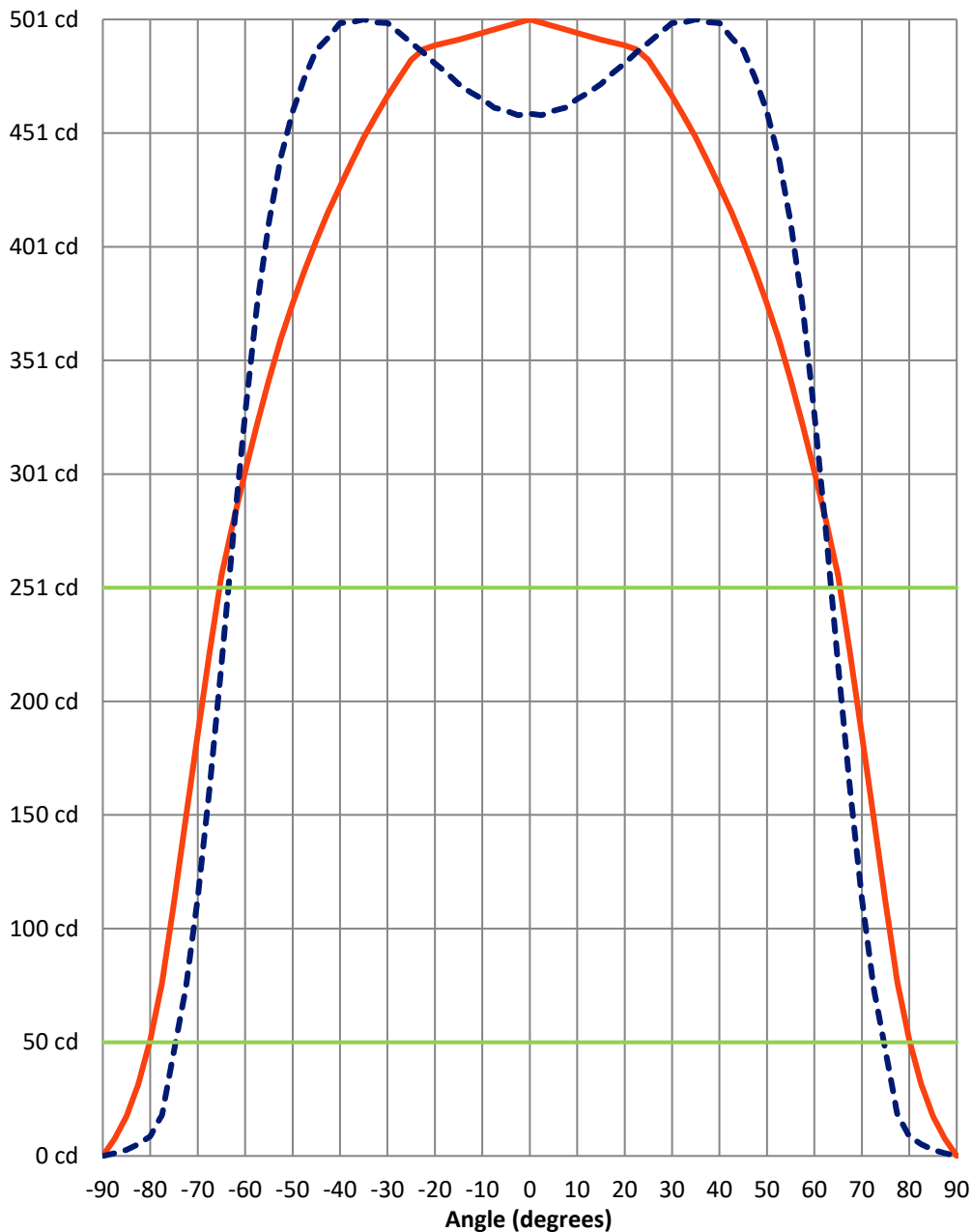
REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

Luminous Intensity Polar Plot



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

Luminous Intensity Plot



Beam:
 H Angle: 127°
 V Angle: 130.8°
 Lumens: 1496.3
 Efficiency: 86.8%

Field:
 H Angle: 149.3°
 V Angle: 160.3°
 Lumens: 1702.9
 Efficiency: 98.8%

Spill:
 Lumens: 21
 Efficiency: 1.2%

— Vertical Distribution through -35-Deg
 - - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
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	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.5	1.9	2.3
85°	0.0	0.1	0.3	0.7	1.0	1.4	1.9	2.5	3.1	3.8	4.5
82.5°	0.0	0.2	0.5	1.0	1.5	2.1	2.9	3.7	4.6	5.5	6.3
80°	0.0	0.3	0.7	1.3	2.0	2.8	3.7	4.7	5.6	6.7	7.8
77.5°	0.0	0.3	0.9	1.6	2.5	3.4	4.4	5.5	6.7	7.9	9.3
75°	0.0	0.4	1.0	1.9	2.9	4.0	5.1	6.4	7.8	9.3	10.9
72.5°	0.0	0.5	1.2	2.2	3.3	4.5	5.8	7.2	8.9	10.6	12.5
70°	0.0	0.5	1.3	2.5	3.6	5.0	6.4	8.2	10.0	12.0	16.1
67.5°	0.0	0.6	1.5	2.7	4.0	5.4	7.1	9.1	11.1	15.4	20.2
65°	0.0	0.7	1.6	2.9	4.3	5.9	7.9	9.9	13.9	18.7	25.3
62.5°	0.0	0.7	1.8	3.1	4.6	6.5	8.5	11.7	16.5	22.5	33.0
60°	0.0	0.8	1.9	3.3	4.9	7.0	9.2	13.7	19.0	28.9	40.4
57.5°	0.0	0.8	2.0	3.5	5.3	7.5	10.6	15.7	23.5	34.9	49.8
55°	0.0	0.9	2.1	3.7	5.7	8.0	12.1	17.5	28.3	41.3	60.0
52.5°	0.0	0.9	2.3	3.9	6.0	8.6	13.4	21.0	32.8	50.2	69.9
50°	0.0	1.0	2.4	4.0	6.3	9.6	14.7	24.6	38.0	58.7	82.7
47.5°	0.0	1.0	2.5	4.2	6.7	10.4	16.0	27.8	45.2	66.8	95.1
45°	0.0	1.0	2.5	4.4	6.9	11.3	18.6	30.9	52.0	77.0	106.7
42.5°	0.0	1.1	2.6	4.6	7.2	12.0	20.9	35.3	58.4	86.6	120.1
40°	0.0	1.1	2.7	4.8	7.6	12.6	23.0	40.6	65.1	95.4	132.9
37.5°	0.0	1.1	2.8	4.9	8.1	13.2	24.9	45.5	72.3	104.1	144.6
35°	0.0	1.2	2.8	5.1	8.5	14.3	26.5	50.1	78.8	113.8	156.0
32.5°	0.0	1.2	2.9	5.2	8.8	15.6	28.6	54.4	84.6	122.6	167.4
30°	0.0	1.2	2.9	5.3	9.1	16.7	32.0	58.4	89.8	130.5	177.6
27.5°	0.0	1.2	2.9	5.4	9.4	17.7	35.0	62.6	95.0	137.4	186.7
25°	0.0	1.2	3.0	5.5	9.5	18.5	37.7	66.2	100.5	144.3	194.6
22.5°	0.0	1.3	3.0	5.5	9.6	19.1	40.1	69.3	105.3	150.6	201.9
20°	0.0	1.3	3.0	5.6	9.7	19.6	42.1	71.8	109.2	155.8	208.1
17.5°	0.0	1.3	3.0	5.6	9.7	19.9	43.8	73.8	112.4	160.0	213.1
15°	0.0	1.3	3.0	5.6	9.7	20.0	45.2	75.3	114.8	163.3	217.0
12.5°	0.0	1.3	2.9	5.5	9.6	20.1	46.2	76.2	116.5	165.5	219.8
10°	0.0	1.3	2.9	5.5	9.5	19.9	46.9	76.7	117.3	166.7	221.4
7.5°	0.0	1.2	2.9	5.4	9.4	19.7	47.2	76.7	117.5	167.0	221.9
5°	0.0	1.2	2.8	5.4	9.2	19.3	47.2	76.3	116.9	166.3	221.2
2.5°	0.0	1.2	2.8	5.3	9.0	18.9	46.9	75.4	115.6	164.6	219.3
0°	0.0	1.2	2.7	5.2	8.7	18.3	46.3	74.1	113.7	162.1	216.4
-2.5°	0.0	1.2	2.8	5.3	9.0	18.9	46.9	75.4	115.6	164.6	219.3
-5°	0.0	1.2	2.8	5.4	9.2	19.3	47.2	76.3	116.9	166.3	221.2
-7.5°	0.0	1.2	2.9	5.4	9.4	19.7	47.2	76.7	117.5	167.0	221.9
-10°	0.0	1.3	2.9	5.5	9.5	19.9	46.9	76.7	117.3	166.7	221.4
-12.5°	0.0	1.3	2.9	5.5	9.6	20.1	46.2	76.2	116.5	165.5	219.8
-15°	0.0	1.3	3.0	5.6	9.7	20.0	45.2	75.3	114.8	163.3	217.0
-17.5°	0.0	1.3	3.0	5.6	9.7	19.9	43.8	73.8	112.4	160.0	213.1
-20°	0.0	1.3	3.0	5.6	9.7	19.6	42.1	71.8	109.2	155.8	208.1

Classified

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

Scaled Data Report



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	1.3	3.0	5.5	9.6	19.1	40.1	69.3	105.3	150.6	201.9
-25°	0.0	1.2	3.0	5.5	9.5	18.5	37.7	66.2	100.5	144.3	194.6
-27.5°	0.0	1.2	2.9	5.4	9.4	17.7	35.0	62.6	95.0	137.4	186.7
-30°	0.0	1.2	2.9	5.3	9.1	16.7	32.0	58.4	89.8	130.5	177.6
-32.5°	0.0	1.2	2.9	5.2	8.8	15.6	28.6	54.4	84.6	122.6	167.4
-35°	0.0	1.2	2.8	5.1	8.5	14.3	26.5	50.1	78.8	113.8	156.0
-37.5°	0.0	1.1	2.8	4.9	8.1	13.2	24.9	45.5	72.3	104.1	144.6
-40°	0.0	1.1	2.7	4.8	7.6	12.6	23.0	40.6	65.1	95.4	132.9
-42.5°	0.0	1.1	2.6	4.6	7.2	12.0	20.9	35.3	58.4	86.6	120.1
-45°	0.0	1.0	2.5	4.4	6.9	11.3	18.6	30.9	52.0	77.0	106.7
-47.5°	0.0	1.0	2.5	4.2	6.7	10.4	16.0	27.8	45.2	66.8	95.1
-50°	0.0	1.0	2.4	4.0	6.3	9.6	14.7	24.6	38.0	58.7	82.7
-52.5°	0.0	0.9	2.3	3.9	6.0	8.6	13.4	21.0	32.8	50.2	69.9
-55°	0.0	0.9	2.1	3.7	5.7	8.0	12.1	17.5	28.3	41.3	60.0
-57.5°	0.0	0.8	2.0	3.5	5.3	7.5	10.6	15.7	23.5	34.9	49.8
-60°	0.0	0.8	1.9	3.3	4.9	7.0	9.2	13.7	19.0	28.9	40.4
-62.5°	0.0	0.7	1.8	3.1	4.6	6.5	8.5	11.7	16.5	22.5	33.0
-65°	0.0	0.7	1.6	2.9	4.3	5.9	7.9	9.9	13.9	18.7	25.3
-67.5°	0.0	0.6	1.5	2.7	4.0	5.4	7.1	9.1	11.1	15.4	20.2
-70°	0.0	0.5	1.3	2.5	3.6	5.0	6.4	8.2	10.0	12.0	16.1
-72.5°	0.0	0.5	1.2	2.2	3.3	4.5	5.8	7.2	8.9	10.6	12.5
-75°	0.0	0.4	1.0	1.9	2.9	4.0	5.1	6.4	7.8	9.3	10.9
-77.5°	0.0	0.3	0.9	1.6	2.5	3.4	4.4	5.5	6.7	7.9	9.3
-80°	0.0	0.3	0.7	1.3	2.0	2.8	3.7	4.7	5.6	6.7	7.8
-82.5°	0.0	0.2	0.5	1.0	1.5	2.1	2.9	3.7	4.6	5.5	6.3
-85°	0.0	0.1	0.3	0.7	1.0	1.4	1.9	2.5	3.1	3.8	4.5
-87.5°	0.0	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.5	1.9	2.3
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
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°	2.7	3.1	3.5	3.9	4.3	4.8	5.3	5.7	6.2	6.7	7.1
85°	5.3	6.2	6.9	7.6	8.6	9.6	10.7	12.0	13.2	14.6	16.1
82.5°	7.3	8.2	9.5	10.9	12.6	14.4	16.5	19.1	21.9	25.0	28.3
80°	9.0	10.2	12.1	14.6	17.6	21.0	24.7	28.9	33.4	38.7	44.9
77.5°	10.8	12.2	14.9	18.6	23.0	29.2	35.9	43.0	50.6	58.6	66.8
75°	12.6	14.3	19.2	25.8	33.0	40.9	49.7	61.3	73.3	85.8	98.7
72.5°	15.8	19.9	25.8	33.8	45.3	57.9	71.2	85.2	100.4	116.3	132.6
70°	20.6	25.5	34.9	47.8	61.7	76.9	93.8	111.3	129.4	148.2	167.3
67.5°	26.1	35.7	46.7	61.9	79.6	98.1	117.3	139.2	160.8	181.8	202.3
65°	35.4	46.2	59.5	78.2	97.8	121.9	146.0	169.6	193.3	215.9	237.3
62.5°	44.2	58.9	74.3	95.9	122.5	148.6	175.6	201.7	226.5	247.1	264.7
60°	55.7	72.2	92.5	118.9	147.7	177.8	206.6	232.4	254.8	274.2	289.4
57.5°	67.4	88.4	113.9	142.7	175.8	207.3	236.0	261.4	282.2	299.5	313.1
55°	80.6	106.9	136.0	169.0	203.8	236.5	265.2	289.1	309.3	323.5	334.8
52.5°	96.3	125.2	159.6	195.6	232.7	265.5	293.4	316.0	333.2	346.3	354.4
50°	111.1	145.6	182.4	222.3	261.3	293.9	320.1	341.0	355.7	366.1	372.6
47.5°	127.6	164.9	205.8	247.4	288.0	320.4	345.5	363.0	376.4	384.1	389.3
45°	144.0	184.5	227.8	270.5	311.4	345.6	367.3	384.1	394.0	400.9	403.2
42.5°	159.3	203.4	248.1	292.4	331.6	366.1	388.4	401.6	410.8	415.1	416.7
40°	175.2	221.1	267.1	310.4	349.8	381.8	406.1	418.7	425.1	428.4	429.5
37.5°	190.1	237.5	284.5	327.7	364.1	395.0	420.5	432.8	438.4	441.2	440.4
35°	203.8	252.6	299.5	342.1	378.0	406.6	428.9	445.8	450.9	452.0	451.2
32.5°	216.4	266.6	313.6	354.3	388.7	416.8	437.0	452.1	462.0	462.7	461.5
30°	228.0	278.5	325.9	365.9	398.9	424.3	443.5	458.1	468.0	472.6	470.8
27.5°	238.4	289.4	335.7	375.2	408.0	431.7	449.5	462.4	471.8	478.6	479.6
25°	247.7	299.2	344.7	383.4	414.3	437.4	454.8	466.9	475.4	481.3	484.5
22.5°	255.6	307.9	352.9	391.2	420.3	442.4	458.6	470.2	478.6	484.1	486.3
20°	262.2	314.2	359.5	397.8	426.0	447.3	462.4	473.4	481.2	485.8	488.2
17.5°	267.8	319.5	364.6	402.0	429.9	451.0	465.8	476.5	484.0	487.6	490.3
15°	272.3	323.9	369.0	405.6	433.1	453.6	468.1	478.7	486.0	489.4	492.5
12.5°	275.6	327.3	372.6	408.6	435.9	456.0	470.3	480.9	487.5	491.3	493.8
10°	277.7	329.6	375.3	410.9	438.1	457.9	472.1	482.8	488.9	493.2	495.0
7.5°	278.7	330.8	376.9	412.4	439.8	459.4	473.6	484.6	490.2	495.0	496.2
5°	278.4	330.8	377.4	413.1	440.7	460.4	474.7	486.0	491.4	496.8	497.5
2.5°	276.8	329.6	376.8	412.8	440.9	460.7	475.3	487.1	492.4	498.3	498.7
0°	273.9	327.1	374.9	411.5	440.1	460.4	475.4	487.7	493.2	499.6	500.0
-2.5°	276.8	329.6	376.8	412.8	440.9	460.7	475.3	487.1	492.4	498.3	498.7
-5°	278.4	330.8	377.4	413.1	440.7	460.4	474.7	486.0	491.4	496.8	497.5
-7.5°	278.7	330.8	376.9	412.4	439.8	459.4	473.6	484.6	490.2	495.0	496.2
-10°	277.7	329.6	375.3	410.9	438.1	457.9	472.1	482.8	488.9	493.2	495.0
-12.5°	275.6	327.3	372.6	408.6	435.9	456.0	470.3	480.9	487.5	491.3	493.8
-15°	272.3	323.9	369.0	405.6	433.1	453.6	468.1	478.7	486.0	489.4	492.5
-17.5°	267.8	319.5	364.6	402.0	429.9	451.0	465.8	476.5	484.0	487.6	490.3
-20°	262.2	314.2	359.5	397.8	426.0	447.3	462.4	473.4	481.2	485.8	488.2

Classified

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

Scaled Data Report



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	255.6	307.9	352.9	391.2	420.3	442.4	458.6	470.2	478.6	484.1	486.3
-25°	247.7	299.2	344.7	383.4	414.3	437.4	454.8	466.9	475.4	481.3	484.5
-27.5°	238.4	289.4	335.7	375.2	408.0	431.7	449.5	462.4	471.8	478.6	479.6
-30°	228.0	278.5	325.9	365.9	398.9	424.3	443.5	458.1	468.0	472.6	470.8
-32.5°	216.4	266.6	313.6	354.3	388.7	416.8	437.0	452.1	462.0	462.7	461.5
-35°	203.8	252.6	299.5	342.1	378.0	406.6	428.9	445.8	450.9	452.0	451.2
-37.5°	190.1	237.5	284.5	327.7	364.1	395.0	420.5	432.8	438.4	441.2	440.4
-40°	175.2	221.1	267.1	310.4	349.8	381.8	406.1	418.7	425.1	428.4	429.5
-42.5°	159.3	203.4	248.1	292.4	331.6	366.1	388.4	401.6	410.8	415.1	416.7
-45°	144.0	184.5	227.8	270.5	311.4	345.6	367.3	384.1	394.0	400.9	403.2
-47.5°	127.6	164.9	205.8	247.4	288.0	320.4	345.5	363.0	376.4	384.1	389.3
-50°	111.1	145.6	182.4	222.3	261.3	293.9	320.1	341.0	355.7	366.1	372.6
-52.5°	96.3	125.2	159.6	195.6	232.7	265.5	293.4	316.0	333.2	346.3	354.4
-55°	80.6	106.9	136.0	169.0	203.8	236.5	265.2	289.1	309.3	323.5	334.8
-57.5°	67.4	88.4	113.9	142.7	175.8	207.3	236.0	261.4	282.2	299.5	313.1
-60°	55.7	72.2	92.5	118.9	147.7	177.8	206.6	232.4	254.8	274.2	289.4
-62.5°	44.2	58.9	74.3	95.9	122.5	148.6	175.6	201.7	226.5	247.1	264.7
-65°	35.4	46.2	59.5	78.2	97.8	121.9	146.0	169.6	193.3	215.9	237.3
-67.5°	26.1	35.7	46.7	61.9	79.6	98.1	117.3	139.2	160.8	181.8	202.3
-70°	20.6	25.5	34.9	47.8	61.7	76.9	93.8	111.3	129.4	148.2	167.3
-72.5°	15.8	19.9	25.8	33.8	45.3	57.9	71.2	85.2	100.4	116.3	132.6
-75°	12.6	14.3	19.2	25.8	33.0	40.9	49.7	61.3	73.3	85.8	98.7
-77.5°	10.8	12.2	14.9	18.6	23.0	29.2	35.9	43.0	50.6	58.6	66.8
-80°	9.0	10.2	12.1	14.6	17.6	21.0	24.7	28.9	33.4	38.7	44.9
-82.5°	7.3	8.2	9.5	10.9	12.6	14.4	16.5	19.1	21.9	25.0	28.3
-85°	5.3	6.2	6.9	7.6	8.6	9.6	10.7	12.0	13.2	14.6	16.1
-87.5°	2.7	3.1	3.5	3.9	4.3	4.8	5.3	5.7	6.2	6.7	7.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
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°	7.6	8.1	8.6	8.4	8.2	8.0	7.7	7.4	7.1	6.8	6.4
85°	17.6	19.1	20.7	20.3	19.7	18.9	18.1	17.1	16.1	15.0	13.8
82.5°	31.8	35.4	39.1	38.6	37.4	35.9	34.1	32.1	29.8	27.3	24.7
80°	51.2	57.7	64.4	64.2	62.3	59.8	56.8	53.3	49.5	45.2	40.7
77.5°	76.6	87.2	97.9	99.2	96.8	93.4	89.2	84.0	78.2	71.7	64.6
75°	111.8	125.4	139.4	142.2	138.3	133.2	126.9	119.6	111.4	102.4	92.6
72.5°	149.0	165.7	182.2	186.8	180.6	173.2	164.7	155.0	144.4	132.9	120.6
70°	185.8	203.9	221.3	228.8	220.9	211.7	201.4	190.0	177.7	164.4	150.4
67.5°	221.9	240.4	257.8	268.7	257.6	244.8	231.6	217.9	204.0	189.6	174.8
65°	255.9	270.1	282.3	291.7	279.6	266.5	253.1	239.4	225.5	211.1	196.5
62.5°	279.7	291.5	300.7	307.7	298.2	285.4	272.2	258.9	245.4	231.5	217.4
60°	301.8	311.4	317.6	321.6	315.0	302.8	290.2	277.5	264.5	251.4	238.0
57.5°	322.6	329.4	333.6	335.1	330.8	319.1	307.2	294.9	282.7	270.4	257.8
55°	342.2	346.4	348.6	348.2	345.0	333.7	322.5	311.2	299.9	288.5	276.9
52.5°	360.2	362.1	362.1	360.3	356.8	347.2	337.0	326.7	316.4	306.0	295.3
50°	375.8	376.6	374.9	371.9	367.7	360.3	350.9	341.5	332.0	322.4	312.7
47.5°	390.3	389.7	387.3	383.6	378.9	372.3	363.4	354.9	346.7	338.4	329.8
45°	403.7	402.1	399.2	394.5	389.1	383.4	376.1	368.8	361.1	353.5	345.7
42.5°	416.3	413.7	409.9	405.3	400.3	394.5	387.4	380.5	373.9	367.3	360.5
40°	427.5	424.7	420.9	416.3	410.4	404.1	398.0	392.2	386.5	380.6	374.5
37.5°	438.5	435.5	431.1	425.8	420.2	414.5	408.6	403.3	398.3	392.9	387.4
35°	449.1	445.2	440.5	435.3	430.1	424.6	418.9	413.2	408.6	404.0	399.3
32.5°	458.4	454.3	449.4	444.5	439.5	433.8	428.2	422.4	418.2	414.2	410.0
30°	467.4	462.7	458.1	453.3	447.8	442.4	437.0	431.5	426.8	423.3	419.8
27.5°	475.4	471.0	466.4	461.0	455.8	450.7	445.3	439.9	434.8	431.9	428.7
25°	483.3	479.0	473.7	468.5	463.5	458.0	452.8	447.8	442.7	438.7	436.0
22.5°	487.9	486.0	480.8	475.9	470.3	464.8	459.6	454.6	449.5	444.6	442.4
20°	489.8	489.3	487.8	482.2	476.4	470.9	465.9	460.4	455.3	451.5	448.7
17.5°	491.0	490.8	490.1	488.3	482.0	476.9	470.9	465.3	461.5	457.0	452.6
15°	492.3	492.4	491.0	488.8	486.7	481.8	474.8	470.7	465.7	461.3	458.3
12.5°	493.7	493.6	492.0	489.8	487.6	483.1	479.9	474.5	469.3	465.8	462.0
10°	495.2	494.7	493.0	490.9	487.6	483.3	480.9	476.8	472.9	468.5	464.8
7.5°	496.8	495.8	494.4	491.9	487.8	484.1	480.5	476.8	473.9	470.9	467.0
5°	498.2	497.1	496.0	492.8	488.3	484.7	480.5	476.8	473.1	470.1	467.4
2.5°	499.7	498.4	497.8	493.9	489.4	485.6	480.9	477.0	472.7	469.3	466.5
0°	501.2	499.9	499.6	495.3	490.9	486.7	481.8	477.6	472.7	469.1	466.1
-2.5°	499.7	498.4	497.8	493.9	489.4	485.6	480.9	477.0	472.7	469.3	466.5
-5°	498.2	497.1	496.0	492.8	488.3	484.7	480.5	476.8	473.1	470.1	467.4
-7.5°	496.8	495.8	494.4	491.9	487.8	484.1	480.5	476.8	473.9	470.9	467.0
-10°	495.2	494.7	493.0	490.9	487.6	483.3	480.9	476.8	472.9	468.5	464.8
-12.5°	493.7	493.6	492.0	489.8	487.6	483.1	479.9	474.5	469.3	465.8	462.0
-15°	492.3	492.4	491.0	488.8	486.7	481.8	474.8	470.7	465.7	461.3	458.3
-17.5°	491.0	490.8	490.1	488.3	482.0	476.9	470.9	465.3	461.5	457.0	452.6
-20°	489.8	489.3	487.8	482.2	476.4	470.9	465.9	460.4	455.3	451.5	448.7



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	487.9	486.0	480.8	475.9	470.3	464.8	459.6	454.6	449.5	444.6	442.4
-25°	483.3	479.0	473.7	468.5	463.5	458.0	452.8	447.8	442.7	438.7	436.0
-27.5°	475.4	471.0	466.4	461.0	455.8	450.7	445.3	439.9	434.8	431.9	428.7
-30°	467.4	462.7	458.1	453.3	447.8	442.4	437.0	431.5	426.8	423.3	419.8
-32.5°	458.4	454.3	449.4	444.5	439.5	433.8	428.2	422.4	418.2	414.2	410.0
-35°	449.1	445.2	440.5	435.3	430.1	424.6	418.9	413.2	408.6	404.0	399.3
-37.5°	438.5	435.5	431.1	425.8	420.2	414.5	408.6	403.3	398.3	392.9	387.4
-40°	427.5	424.7	420.9	416.3	410.4	404.1	398.0	392.2	386.5	380.6	374.5
-42.5°	416.3	413.7	409.9	405.3	400.3	394.5	387.4	380.5	373.9	367.3	360.5
-45°	403.7	402.1	399.2	394.5	389.1	383.4	376.1	368.8	361.1	353.5	345.7
-47.5°	390.3	389.7	387.3	383.6	378.9	372.3	363.4	354.9	346.7	338.4	329.8
-50°	375.8	376.6	374.9	371.9	367.7	360.3	350.9	341.5	332.0	322.4	312.7
-52.5°	360.2	362.1	362.1	360.3	356.8	347.2	337.0	326.7	316.4	306.0	295.3
-55°	342.2	346.4	348.6	348.2	345.0	333.7	322.5	311.2	299.9	288.5	276.9
-57.5°	322.6	329.4	333.6	335.1	330.8	319.1	307.2	294.9	282.7	270.4	257.8
-60°	301.8	311.4	317.6	321.6	315.0	302.8	290.2	277.5	264.5	251.4	238.0
-62.5°	279.7	291.5	300.7	307.7	298.2	285.4	272.2	258.9	245.4	231.5	217.4
-65°	255.9	270.1	282.3	291.7	279.6	266.5	253.1	239.4	225.5	211.1	196.5
-67.5°	221.9	240.4	257.8	268.7	257.6	244.8	231.6	217.9	204.0	189.6	174.8
-70°	185.8	203.9	221.3	228.8	220.9	211.7	201.4	190.0	177.7	164.4	150.4
-72.5°	149.0	165.7	182.2	186.8	180.6	173.2	164.7	155.0	144.4	132.9	120.6
-75°	111.8	125.4	139.4	142.2	138.3	133.2	126.9	119.6	111.4	102.4	92.6
-77.5°	76.6	87.2	97.9	99.2	96.8	93.4	89.2	84.0	78.2	71.7	64.6
-80°	51.2	57.7	64.4	64.2	62.3	59.8	56.8	53.3	49.5	45.2	40.7
-82.5°	31.8	35.4	39.1	38.6	37.4	35.9	34.1	32.1	29.8	27.3	24.7
-85°	17.6	19.1	20.7	20.3	19.7	18.9	18.1	17.1	16.1	15.0	13.8
-87.5°	7.6	8.1	8.6	8.4	8.2	8.0	7.7	7.4	7.1	6.8	6.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
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°	6.0	5.7	5.2	4.8	5.2	5.7	6.0	6.4	6.8	7.1	7.4
85°	12.6	11.3	10.0	8.7	10.0	11.3	12.6	13.8	15.0	16.1	17.1
82.5°	21.9	19.1	16.1	13.1	16.1	19.1	21.9	24.7	27.3	29.8	32.1
80°	35.9	30.9	25.6	20.4	25.6	30.9	35.9	40.7	45.2	49.5	53.3
77.5°	57.1	49.1	40.8	32.4	40.8	49.1	57.1	64.6	71.7	78.2	84.0
75°	82.2	71.3	59.9	48.3	59.9	71.3	82.2	92.6	102.4	111.4	119.6
72.5°	107.6	94.0	80.0	65.7	80.0	94.0	107.6	120.6	132.9	144.4	155.0
70°	135.5	120.1	104.1	87.7	104.1	120.1	135.5	150.4	164.4	177.7	190.0
67.5°	159.6	144.0	127.9	111.4	127.9	144.0	159.6	174.8	189.6	204.0	217.9
65°	181.4	165.9	150.1	133.8	150.1	165.9	181.4	196.5	211.1	225.5	239.4
62.5°	202.9	188.0	172.7	156.9	172.7	188.0	202.9	217.4	231.5	245.4	258.9
60°	224.1	210.0	195.3	180.0	195.3	210.0	224.1	238.0	251.4	264.5	277.5
57.5°	244.9	231.6	217.8	203.5	217.8	231.6	244.9	257.8	270.4	282.7	294.9
55°	265.0	252.7	239.9	226.5	239.9	252.7	265.0	276.9	288.5	299.9	311.2
52.5°	284.4	273.1	261.2	248.6	261.2	273.1	284.4	295.3	306.0	316.4	326.7
50°	302.8	292.5	281.6	270.1	281.6	292.5	302.8	312.7	322.4	332.0	341.5
47.5°	320.9	311.5	301.6	290.9	301.6	311.5	320.9	329.8	338.4	346.7	354.9
45°	337.7	329.3	320.4	310.8	320.4	329.3	337.7	345.7	353.5	361.1	368.8
42.5°	353.3	345.8	337.6	328.7	337.6	345.8	353.3	360.5	367.3	373.9	380.5
40°	368.1	361.3	353.8	345.7	353.8	361.3	368.1	374.5	380.6	386.5	392.2
37.5°	381.7	375.6	369.0	361.5	369.0	375.6	381.7	387.4	392.9	398.3	403.3
35°	394.4	389.0	383.1	376.5	383.1	389.0	394.4	399.3	404.0	408.6	413.2
32.5°	405.6	400.7	395.3	389.2	395.3	400.7	405.6	410.0	414.2	418.2	422.4
30°	416.1	412.0	407.4	402.1	407.4	412.0	416.1	419.8	423.3	426.8	431.5
27.5°	425.6	422.2	418.3	413.8	418.3	422.2	425.6	428.7	431.9	434.8	439.9
25°	433.1	429.9	426.2	422.0	426.2	429.9	433.1	436.0	438.7	442.7	447.8
22.5°	440.3	438.0	435.2	431.6	435.2	438.0	440.3	442.4	444.6	449.5	454.6
20°	446.7	445.0	443.1	440.7	443.1	445.0	446.7	448.7	451.5	455.3	460.4
17.5°	451.6	450.2	448.3	445.7	448.3	450.2	451.6	452.6	457.0	461.5	465.3
15°	455.8	454.1	452.4	450.3	452.4	454.1	455.8	458.3	461.3	465.7	470.7
12.5°	458.9	457.8	456.9	455.6	456.9	457.8	458.9	462.0	465.8	469.3	474.5
10°	462.3	459.6	458.0	456.4	458.0	459.6	462.3	464.8	468.5	472.9	476.8
7.5°	463.3	460.9	460.3	460.3	460.3	460.9	463.3	467.0	470.9	473.9	476.8
5°	464.7	462.4	461.6	460.5	461.6	462.4	464.7	467.4	470.1	473.1	476.8
2.5°	463.8	461.9	460.9	461.5	460.9	461.9	463.8	466.5	469.3	472.7	477.0
0°	462.3	460.9	459.0	459.6	459.0	460.9	462.3	466.1	469.1	472.7	477.6
-2.5°	463.8	461.9	460.9	461.5	460.9	461.9	463.8	466.5	469.3	472.7	477.0
-5°	464.7	462.4	461.6	460.5	461.6	462.4	464.7	467.4	470.1	473.1	476.8
-7.5°	463.3	460.9	460.3	460.3	460.3	460.9	463.3	467.0	470.9	473.9	476.8
-10°	462.3	459.6	458.0	456.4	458.0	459.6	462.3	464.8	468.5	472.9	476.8
-12.5°	458.9	457.8	456.9	455.6	456.9	457.8	458.9	462.0	465.8	469.3	474.5
-15°	455.8	454.1	452.4	450.3	452.4	454.1	455.8	458.3	461.3	465.7	470.7
-17.5°	451.6	450.2	448.3	445.7	448.3	450.2	451.6	452.6	457.0	461.5	465.3
-20°	446.7	445.0	443.1	440.7	443.1	445.0	446.7	448.7	451.5	455.3	460.4



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	440.3	438.0	435.2	431.6	435.2	438.0	440.3	442.4	444.6	449.5	454.6
-25°	433.1	429.9	426.2	422.0	426.2	429.9	433.1	436.0	438.7	442.7	447.8
-27.5°	425.6	422.2	418.3	413.8	418.3	422.2	425.6	428.7	431.9	434.8	439.9
-30°	416.1	412.0	407.4	402.1	407.4	412.0	416.1	419.8	423.3	426.8	431.5
-32.5°	405.6	400.7	395.3	389.2	395.3	400.7	405.6	410.0	414.2	418.2	422.4
-35°	394.4	389.0	383.1	376.5	383.1	389.0	394.4	399.3	404.0	408.6	413.2
-37.5°	381.7	375.6	369.0	361.5	369.0	375.6	381.7	387.4	392.9	398.3	403.3
-40°	368.1	361.3	353.8	345.7	353.8	361.3	368.1	374.5	380.6	386.5	392.2
-42.5°	353.3	345.8	337.6	328.7	337.6	345.8	353.3	360.5	367.3	373.9	380.5
-45°	337.7	329.3	320.4	310.8	320.4	329.3	337.7	345.7	353.5	361.1	368.8
-47.5°	320.9	311.5	301.6	290.9	301.6	311.5	320.9	329.8	338.4	346.7	354.9
-50°	302.8	292.5	281.6	270.1	281.6	292.5	302.8	312.7	322.4	332.0	341.5
-52.5°	284.4	273.1	261.2	248.6	261.2	273.1	284.4	295.3	306.0	316.4	326.7
-55°	265.0	252.7	239.9	226.5	239.9	252.7	265.0	276.9	288.5	299.9	311.2
-57.5°	244.9	231.6	217.8	203.5	217.8	231.6	244.9	257.8	270.4	282.7	294.9
-60°	224.1	210.0	195.3	180.0	195.3	210.0	224.1	238.0	251.4	264.5	277.5
-62.5°	202.9	188.0	172.7	156.9	172.7	188.0	202.9	217.4	231.5	245.4	258.9
-65°	181.4	165.9	150.1	133.8	150.1	165.9	181.4	196.5	211.1	225.5	239.4
-67.5°	159.6	144.0	127.9	111.4	127.9	144.0	159.6	174.8	189.6	204.0	217.9
-70°	135.5	120.1	104.1	87.7	104.1	120.1	135.5	150.4	164.4	177.7	190.0
-72.5°	107.6	94.0	80.0	65.7	80.0	94.0	107.6	120.6	132.9	144.4	155.0
-75°	82.2	71.3	59.9	48.3	59.9	71.3	82.2	92.6	102.4	111.4	119.6
-77.5°	57.1	49.1	40.8	32.4	40.8	49.1	57.1	64.6	71.7	78.2	84.0
-80°	35.9	30.9	25.6	20.4	25.6	30.9	35.9	40.7	45.2	49.5	53.3
-82.5°	21.9	19.1	16.1	13.1	16.1	19.1	21.9	24.7	27.3	29.8	32.1
-85°	12.6	11.3	10.0	8.7	10.0	11.3	12.6	13.8	15.0	16.1	17.1
-87.5°	6.0	5.7	5.2	4.8	5.2	5.7	6.0	6.4	6.8	7.1	7.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
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°	7.7	8.0	8.2	8.4	8.6	8.1	7.6	7.1	6.7	6.2	5.7
85°	18.1	18.9	19.7	20.3	20.7	19.1	17.6	16.1	14.6	13.2	12.0
82.5°	34.1	35.9	37.4	38.6	39.1	35.4	31.8	28.3	25.0	21.9	19.1
80°	56.8	59.8	62.3	64.2	64.4	57.7	51.2	44.9	38.7	33.4	28.9
77.5°	89.2	93.4	96.8	99.2	97.9	87.2	76.6	66.8	58.6	50.6	43.0
75°	126.9	133.2	138.3	142.2	139.4	125.4	111.8	98.7	85.8	73.3	61.3
72.5°	164.7	173.2	180.6	186.8	182.2	165.7	149.0	132.6	116.3	100.4	85.2
70°	201.4	211.7	220.9	228.8	221.3	203.9	185.8	167.3	148.2	129.4	111.3
67.5°	231.6	244.8	257.6	268.7	257.8	240.4	221.9	202.3	181.8	160.8	139.2
65°	253.1	266.5	279.6	291.7	282.3	270.1	255.9	237.3	215.9	193.3	169.6
62.5°	272.2	285.4	298.2	307.7	300.7	291.5	279.7	264.7	247.1	226.5	201.7
60°	290.2	302.8	315.0	321.6	317.6	311.4	301.8	289.4	274.2	254.8	232.4
57.5°	307.2	319.1	330.8	335.1	333.6	329.4	322.6	313.1	299.5	282.2	261.4
55°	322.5	333.7	345.0	348.2	348.6	346.4	342.2	334.8	323.5	309.3	289.1
52.5°	337.0	347.2	356.8	360.3	362.1	362.1	360.2	354.4	346.3	333.2	316.0
50°	350.9	360.3	367.7	371.9	374.9	376.6	375.8	372.6	366.1	355.7	341.0
47.5°	363.4	372.3	378.9	383.6	387.3	389.7	390.3	389.3	384.1	376.4	363.0
45°	376.1	383.4	389.1	394.5	399.2	402.1	403.7	403.2	400.9	394.0	384.1
42.5°	387.4	394.5	400.3	405.3	409.9	413.7	416.3	416.7	415.1	410.8	401.6
40°	398.0	404.1	410.4	416.3	420.9	424.7	427.5	429.5	428.4	425.1	418.7
37.5°	408.6	414.5	420.2	425.8	431.1	435.5	438.5	440.4	441.2	438.4	432.8
35°	418.9	424.6	430.1	435.3	440.5	445.2	449.1	451.2	452.0	450.9	445.8
32.5°	428.2	433.8	439.5	444.5	449.4	454.3	458.4	461.5	462.7	462.0	452.1
30°	437.0	442.4	447.8	453.3	458.1	462.7	467.4	470.8	472.6	468.0	458.1
27.5°	445.3	450.7	455.8	461.0	466.4	471.0	475.4	479.6	478.6	471.8	462.4
25°	452.8	458.0	463.5	468.5	473.7	479.0	483.3	484.5	481.3	475.4	466.9
22.5°	459.6	464.8	470.3	475.9	480.8	486.0	487.9	486.3	484.1	478.6	470.2
20°	465.9	470.9	476.4	482.2	487.8	489.3	489.8	488.2	485.8	481.2	473.4
17.5°	470.9	476.9	482.0	488.3	490.1	490.8	491.0	490.3	487.6	484.0	476.5
15°	474.8	481.8	486.7	488.8	491.0	492.4	492.3	492.5	489.4	486.0	478.7
12.5°	479.9	483.1	487.6	489.8	492.0	493.6	493.7	493.8	491.3	487.5	480.9
10°	480.9	483.3	487.6	490.9	493.0	494.7	495.2	495.0	493.2	488.9	482.8
7.5°	480.5	484.1	487.8	491.9	494.4	495.8	496.8	496.2	495.0	490.2	484.6
5°	480.5	484.7	488.3	492.8	496.0	497.1	498.2	497.5	496.8	491.4	486.0
2.5°	480.9	485.6	489.4	493.9	497.8	498.4	499.7	498.7	498.3	492.4	487.1
0°	481.8	486.7	490.9	495.3	499.6	499.9	501.2	500.0	499.6	493.2	487.7
-2.5°	480.9	485.6	489.4	493.9	497.8	498.4	499.7	498.7	498.3	492.4	487.1
-5°	480.5	484.7	488.3	492.8	496.0	497.1	498.2	497.5	496.8	491.4	486.0
-7.5°	480.5	484.1	487.8	491.9	494.4	495.8	496.8	496.2	495.0	490.2	484.6
-10°	480.9	483.3	487.6	490.9	493.0	494.7	495.2	495.0	493.2	488.9	482.8
-12.5°	479.9	483.1	487.6	489.8	492.0	493.6	493.7	493.8	491.3	487.5	480.9
-15°	474.8	481.8	486.7	488.8	491.0	492.4	492.3	492.5	489.4	486.0	478.7
-17.5°	470.9	476.9	482.0	488.3	490.1	490.8	491.0	490.3	487.6	484.0	476.5
-20°	465.9	470.9	476.4	482.2	487.8	489.3	489.8	488.2	485.8	481.2	473.4

Classified

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

Scaled Data Report



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	459.6	464.8	470.3	475.9	480.8	486.0	487.9	486.3	484.1	478.6	470.2
-25°	452.8	458.0	463.5	468.5	473.7	479.0	483.3	484.5	481.3	475.4	466.9
-27.5°	445.3	450.7	455.8	461.0	466.4	471.0	475.4	479.6	478.6	471.8	462.4
-30°	437.0	442.4	447.8	453.3	458.1	462.7	467.4	470.8	472.6	468.0	458.1
-32.5°	428.2	433.8	439.5	444.5	449.4	454.3	458.4	461.5	462.7	462.0	452.1
-35°	418.9	424.6	430.1	435.3	440.5	445.2	449.1	451.2	452.0	450.9	445.8
-37.5°	408.6	414.5	420.2	425.8	431.1	435.5	438.5	440.4	441.2	438.4	432.8
-40°	398.0	404.1	410.4	416.3	420.9	424.7	427.5	429.5	428.4	425.1	418.7
-42.5°	387.4	394.5	400.3	405.3	409.9	413.7	416.3	416.7	415.1	410.8	401.6
-45°	376.1	383.4	389.1	394.5	399.2	402.1	403.7	403.2	400.9	394.0	384.1
-47.5°	363.4	372.3	378.9	383.6	387.3	389.7	390.3	389.3	384.1	376.4	363.0
-50°	350.9	360.3	367.7	371.9	374.9	376.6	375.8	372.6	366.1	355.7	341.0
-52.5°	337.0	347.2	356.8	360.3	362.1	362.1	360.2	354.4	346.3	333.2	316.0
-55°	322.5	333.7	345.0	348.2	348.6	346.4	342.2	334.8	323.5	309.3	289.1
-57.5°	307.2	319.1	330.8	335.1	333.6	329.4	322.6	313.1	299.5	282.2	261.4
-60°	290.2	302.8	315.0	321.6	317.6	311.4	301.8	289.4	274.2	254.8	232.4
-62.5°	272.2	285.4	298.2	307.7	300.7	291.5	279.7	264.7	247.1	226.5	201.7
-65°	253.1	266.5	279.6	291.7	282.3	270.1	255.9	237.3	215.9	193.3	169.6
-67.5°	231.6	244.8	257.6	268.7	257.8	240.4	221.9	202.3	181.8	160.8	139.2
-70°	201.4	211.7	220.9	228.8	221.3	203.9	185.8	167.3	148.2	129.4	111.3
-72.5°	164.7	173.2	180.6	186.8	182.2	165.7	149.0	132.6	116.3	100.4	85.2
-75°	126.9	133.2	138.3	142.2	139.4	125.4	111.8	98.7	85.8	73.3	61.3
-77.5°	89.2	93.4	96.8	99.2	97.9	87.2	76.6	66.8	58.6	50.6	43.0
-80°	56.8	59.8	62.3	64.2	64.4	57.7	51.2	44.9	38.7	33.4	28.9
-82.5°	34.1	35.9	37.4	38.6	39.1	35.4	31.8	28.3	25.0	21.9	19.1
-85°	18.1	18.9	19.7	20.3	20.7	19.1	17.6	16.1	14.6	13.2	12.0
-87.5°	7.7	8.0	8.2	8.4	8.6	8.1	7.6	7.1	6.7	6.2	5.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
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°	5.3	4.8	4.3	3.9	3.5	3.1	2.7	2.3	1.9	1.5	1.2
85°	10.7	9.6	8.6	7.6	6.9	6.2	5.3	4.5	3.8	3.1	2.5
82.5°	16.5	14.4	12.6	10.9	9.5	8.2	7.3	6.3	5.5	4.6	3.7
80°	24.7	21.0	17.6	14.6	12.1	10.2	9.0	7.8	6.7	5.6	4.7
77.5°	35.9	29.2	23.0	18.6	14.9	12.2	10.8	9.3	7.9	6.7	5.5
75°	49.7	40.9	33.0	25.8	19.2	14.3	12.6	10.9	9.3	7.8	6.4
72.5°	71.2	57.9	45.3	33.8	25.8	19.9	15.8	12.5	10.6	8.9	7.2
70°	93.8	76.9	61.7	47.8	34.9	25.5	20.6	16.1	12.0	10.0	8.2
67.5°	117.3	98.1	79.6	61.9	46.7	35.7	26.1	20.2	15.4	11.1	9.1
65°	146.0	121.9	97.8	78.2	59.5	46.2	35.4	25.3	18.7	13.9	9.9
62.5°	175.6	148.6	122.5	95.9	74.3	58.9	44.2	33.0	22.5	16.5	11.7
60°	206.6	177.8	147.7	118.9	92.5	72.2	55.7	40.4	28.9	19.0	13.7
57.5°	236.0	207.3	175.8	142.7	113.9	88.4	67.4	49.8	34.9	23.5	15.7
55°	265.2	236.5	203.8	169.0	136.0	106.9	80.6	60.0	41.3	28.3	17.5
52.5°	293.4	265.5	232.7	195.6	159.6	125.2	96.3	69.9	50.2	32.8	21.0
50°	320.1	293.9	261.3	222.3	182.4	145.6	111.1	82.7	58.7	38.0	24.6
47.5°	345.5	320.4	288.0	247.4	205.8	164.9	127.6	95.1	66.8	45.2	27.8
45°	367.3	345.6	311.4	270.5	227.8	184.5	144.0	106.7	77.0	52.0	30.9
42.5°	388.4	366.1	331.6	292.4	248.1	203.4	159.3	120.1	86.6	58.4	35.3
40°	406.1	381.8	349.8	310.4	267.1	221.1	175.2	132.9	95.4	65.1	40.6
37.5°	420.5	395.0	364.1	327.7	284.5	237.5	190.1	144.6	104.1	72.3	45.5
35°	428.9	406.6	378.0	342.1	299.5	252.6	203.8	156.0	113.8	78.8	50.1
32.5°	437.0	416.8	388.7	354.3	313.6	266.6	216.4	167.4	122.6	84.6	54.4
30°	443.5	424.3	398.9	365.9	325.9	278.5	228.0	177.6	130.5	89.8	58.4
27.5°	449.5	431.7	408.0	375.2	335.7	289.4	238.4	186.7	137.4	95.0	62.6
25°	454.8	437.4	414.3	383.4	344.7	299.2	247.7	194.6	144.3	100.5	66.2
22.5°	458.6	442.4	420.3	391.2	352.9	307.9	255.6	201.9	150.6	105.3	69.3
20°	462.4	447.3	426.0	397.8	359.5	314.2	262.2	208.1	155.8	109.2	71.8
17.5°	465.8	451.0	429.9	402.0	364.6	319.5	267.8	213.1	160.0	112.4	73.8
15°	468.1	453.6	433.1	405.6	369.0	323.9	272.3	217.0	163.3	114.8	75.3
12.5°	470.3	456.0	435.9	408.6	372.6	327.3	275.6	219.8	165.5	116.5	76.2
10°	472.1	457.9	438.1	410.9	375.3	329.6	277.7	221.4	166.7	117.3	76.7
7.5°	473.6	459.4	439.8	412.4	376.9	330.8	278.7	221.9	167.0	117.5	76.7
5°	474.7	460.4	440.7	413.1	377.4	330.8	278.4	221.2	166.3	116.9	76.3
2.5°	475.3	460.7	440.9	412.8	376.8	329.6	276.8	219.3	164.6	115.6	75.4
0°	475.4	460.4	440.1	411.5	374.9	327.1	273.9	216.4	162.1	113.7	74.1
-2.5°	475.3	460.7	440.9	412.8	376.8	329.6	276.8	219.3	164.6	115.6	75.4
-5°	474.7	460.4	440.7	413.1	377.4	330.8	278.4	221.2	166.3	116.9	76.3
-7.5°	473.6	459.4	439.8	412.4	376.9	330.8	278.7	221.9	167.0	117.5	76.7
-10°	472.1	457.9	438.1	410.9	375.3	329.6	277.7	221.4	166.7	117.3	76.7
-12.5°	470.3	456.0	435.9	408.6	372.6	327.3	275.6	219.8	165.5	116.5	76.2
-15°	468.1	453.6	433.1	405.6	369.0	323.9	272.3	217.0	163.3	114.8	75.3
-17.5°	465.8	451.0	429.9	402.0	364.6	319.5	267.8	213.1	160.0	112.4	73.8
-20°	462.4	447.3	426.0	397.8	359.5	314.2	262.2	208.1	155.8	109.2	71.8



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	458.6	442.4	420.3	391.2	352.9	307.9	255.6	201.9	150.6	105.3	69.3
-25°	454.8	437.4	414.3	383.4	344.7	299.2	247.7	194.6	144.3	100.5	66.2
-27.5°	449.5	431.7	408.0	375.2	335.7	289.4	238.4	186.7	137.4	95.0	62.6
-30°	443.5	424.3	398.9	365.9	325.9	278.5	228.0	177.6	130.5	89.8	58.4
-32.5°	437.0	416.8	388.7	354.3	313.6	266.6	216.4	167.4	122.6	84.6	54.4
-35°	428.9	406.6	378.0	342.1	299.5	252.6	203.8	156.0	113.8	78.8	50.1
-37.5°	420.5	395.0	364.1	327.7	284.5	237.5	190.1	144.6	104.1	72.3	45.5
-40°	406.1	381.8	349.8	310.4	267.1	221.1	175.2	132.9	95.4	65.1	40.6
-42.5°	388.4	366.1	331.6	292.4	248.1	203.4	159.3	120.1	86.6	58.4	35.3
-45°	367.3	345.6	311.4	270.5	227.8	184.5	144.0	106.7	77.0	52.0	30.9
-47.5°	345.5	320.4	288.0	247.4	205.8	164.9	127.6	95.1	66.8	45.2	27.8
-50°	320.1	293.9	261.3	222.3	182.4	145.6	111.1	82.7	58.7	38.0	24.6
-52.5°	293.4	265.5	232.7	195.6	159.6	125.2	96.3	69.9	50.2	32.8	21.0
-55°	265.2	236.5	203.8	169.0	136.0	106.9	80.6	60.0	41.3	28.3	17.5
-57.5°	236.0	207.3	175.8	142.7	113.9	88.4	67.4	49.8	34.9	23.5	15.7
-60°	206.6	177.8	147.7	118.9	92.5	72.2	55.7	40.4	28.9	19.0	13.7
-62.5°	175.6	148.6	122.5	95.9	74.3	58.9	44.2	33.0	22.5	16.5	11.7
-65°	146.0	121.9	97.8	78.2	59.5	46.2	35.4	25.3	18.7	13.9	9.9
-67.5°	117.3	98.1	79.6	61.9	46.7	35.7	26.1	20.2	15.4	11.1	9.1
-70°	93.8	76.9	61.7	47.8	34.9	25.5	20.6	16.1	12.0	10.0	8.2
-72.5°	71.2	57.9	45.3	33.8	25.8	19.9	15.8	12.5	10.6	8.9	7.2
-75°	49.7	40.9	33.0	25.8	19.2	14.3	12.6	10.9	9.3	7.8	6.4
-77.5°	35.9	29.2	23.0	18.6	14.9	12.2	10.8	9.3	7.9	6.7	5.5
-80°	24.7	21.0	17.6	14.6	12.1	10.2	9.0	7.8	6.7	5.6	4.7
-82.5°	16.5	14.4	12.6	10.9	9.5	8.2	7.3	6.3	5.5	4.6	3.7
-85°	10.7	9.6	8.6	7.6	6.9	6.2	5.3	4.5	3.8	3.1	2.5
-87.5°	5.3	4.8	4.3	3.9	3.5	3.1	2.7	2.3	1.9	1.5	1.2
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

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

Scaled Data Report



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.7	0.5	0.3	0.2	0.1	0.0
85°	1.9	1.4	1.0	0.7	0.3	0.1	0.0
82.5°	2.9	2.1	1.5	1.0	0.5	0.2	0.0
80°	3.7	2.8	2.0	1.3	0.7	0.3	0.0
77.5°	4.4	3.4	2.5	1.6	0.9	0.3	0.0
75°	5.1	4.0	2.9	1.9	1.0	0.4	0.0
72.5°	5.8	4.5	3.3	2.2	1.2	0.5	0.0
70°	6.4	5.0	3.6	2.5	1.3	0.5	0.0
67.5°	7.1	5.4	4.0	2.7	1.5	0.6	0.0
65°	7.9	5.9	4.3	2.9	1.6	0.7	0.0
62.5°	8.5	6.5	4.6	3.1	1.8	0.7	0.0
60°	9.2	7.0	4.9	3.3	1.9	0.8	0.0
57.5°	10.6	7.5	5.3	3.5	2.0	0.8	0.0
55°	12.1	8.0	5.7	3.7	2.1	0.9	0.0
52.5°	13.4	8.6	6.0	3.9	2.3	0.9	0.0
50°	14.7	9.6	6.3	4.0	2.4	1.0	0.0
47.5°	16.0	10.4	6.7	4.2	2.5	1.0	0.0
45°	18.6	11.3	6.9	4.4	2.5	1.0	0.0
42.5°	20.9	12.0	7.2	4.6	2.6	1.1	0.0
40°	23.0	12.6	7.6	4.8	2.7	1.1	0.0
37.5°	24.9	13.2	8.1	4.9	2.8	1.1	0.0
35°	26.5	14.3	8.5	5.1	2.8	1.2	0.0
32.5°	28.6	15.6	8.8	5.2	2.9	1.2	0.0
30°	32.0	16.7	9.1	5.3	2.9	1.2	0.0
27.5°	35.0	17.7	9.4	5.4	2.9	1.2	0.0
25°	37.7	18.5	9.5	5.5	3.0	1.2	0.0
22.5°	40.1	19.1	9.6	5.5	3.0	1.3	0.0
20°	42.1	19.6	9.7	5.6	3.0	1.3	0.0
17.5°	43.8	19.9	9.7	5.6	3.0	1.3	0.0
15°	45.2	20.0	9.7	5.6	3.0	1.3	0.0
12.5°	46.2	20.1	9.6	5.5	2.9	1.3	0.0
10°	46.9	19.9	9.5	5.5	2.9	1.3	0.0
7.5°	47.2	19.7	9.4	5.4	2.9	1.2	0.0
5°	47.2	19.3	9.2	5.4	2.8	1.2	0.0
2.5°	46.9	18.9	9.0	5.3	2.8	1.2	0.0
0°	46.3	18.3	8.7	5.2	2.7	1.2	0.0
-2.5°	46.9	18.9	9.0	5.3	2.8	1.2	0.0
-5°	47.2	19.3	9.2	5.4	2.8	1.2	0.0
-7.5°	47.2	19.7	9.4	5.4	2.9	1.2	0.0
-10°	46.9	19.9	9.5	5.5	2.9	1.3	0.0
-12.5°	46.2	20.1	9.6	5.5	2.9	1.3	0.0
-15°	45.2	20.0	9.7	5.6	3.0	1.3	0.0
-17.5°	43.8	19.9	9.7	5.6	3.0	1.3	0.0
-20°	42.1	19.6	9.7	5.6	3.0	1.3	0.0

Classified

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

Scaled Data Report



REPORT NUMBER: P670570 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-4000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	40.1	19.1	9.6	5.5	3.0	1.3	0.0
-25°	37.7	18.5	9.5	5.5	3.0	1.2	0.0
-27.5°	35.0	17.7	9.4	5.4	2.9	1.2	0.0
-30°	32.0	16.7	9.1	5.3	2.9	1.2	0.0
-32.5°	28.6	15.6	8.8	5.2	2.9	1.2	0.0
-35°	26.5	14.3	8.5	5.1	2.8	1.2	0.0
-37.5°	24.9	13.2	8.1	4.9	2.8	1.1	0.0
-40°	23.0	12.6	7.6	4.8	2.7	1.1	0.0
-42.5°	20.9	12.0	7.2	4.6	2.6	1.1	0.0
-45°	18.6	11.3	6.9	4.4	2.5	1.0	0.0
-47.5°	16.0	10.4	6.7	4.2	2.5	1.0	0.0
-50°	14.7	9.6	6.3	4.0	2.4	1.0	0.0
-52.5°	13.4	8.6	6.0	3.9	2.3	0.9	0.0
-55°	12.1	8.0	5.7	3.7	2.1	0.9	0.0
-57.5°	10.6	7.5	5.3	3.5	2.0	0.8	0.0
-60°	9.2	7.0	4.9	3.3	1.9	0.8	0.0
-62.5°	8.5	6.5	4.6	3.1	1.8	0.7	0.0
-65°	7.9	5.9	4.3	2.9	1.6	0.7	0.0
-67.5°	7.1	5.4	4.0	2.7	1.5	0.6	0.0
-70°	6.4	5.0	3.6	2.5	1.3	0.5	0.0
-72.5°	5.8	4.5	3.3	2.2	1.2	0.5	0.0
-75°	5.1	4.0	2.9	1.9	1.0	0.4	0.0
-77.5°	4.4	3.4	2.5	1.6	0.9	0.3	0.0
-80°	3.7	2.8	2.0	1.3	0.7	0.3	0.0
-82.5°	2.9	2.1	1.5	1.0	0.5	0.2	0.0
-85°	1.9	1.4	1.0	0.7	0.3	0.1	0.0
-87.5°	1.0	0.7	0.5	0.3	0.2	0.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)