

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: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLS15FSUNVDBZK-12W-3000K

Issue Date: 4/3/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670569 (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-3000K  
Description: SLIM LED FLOODLIGHT  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

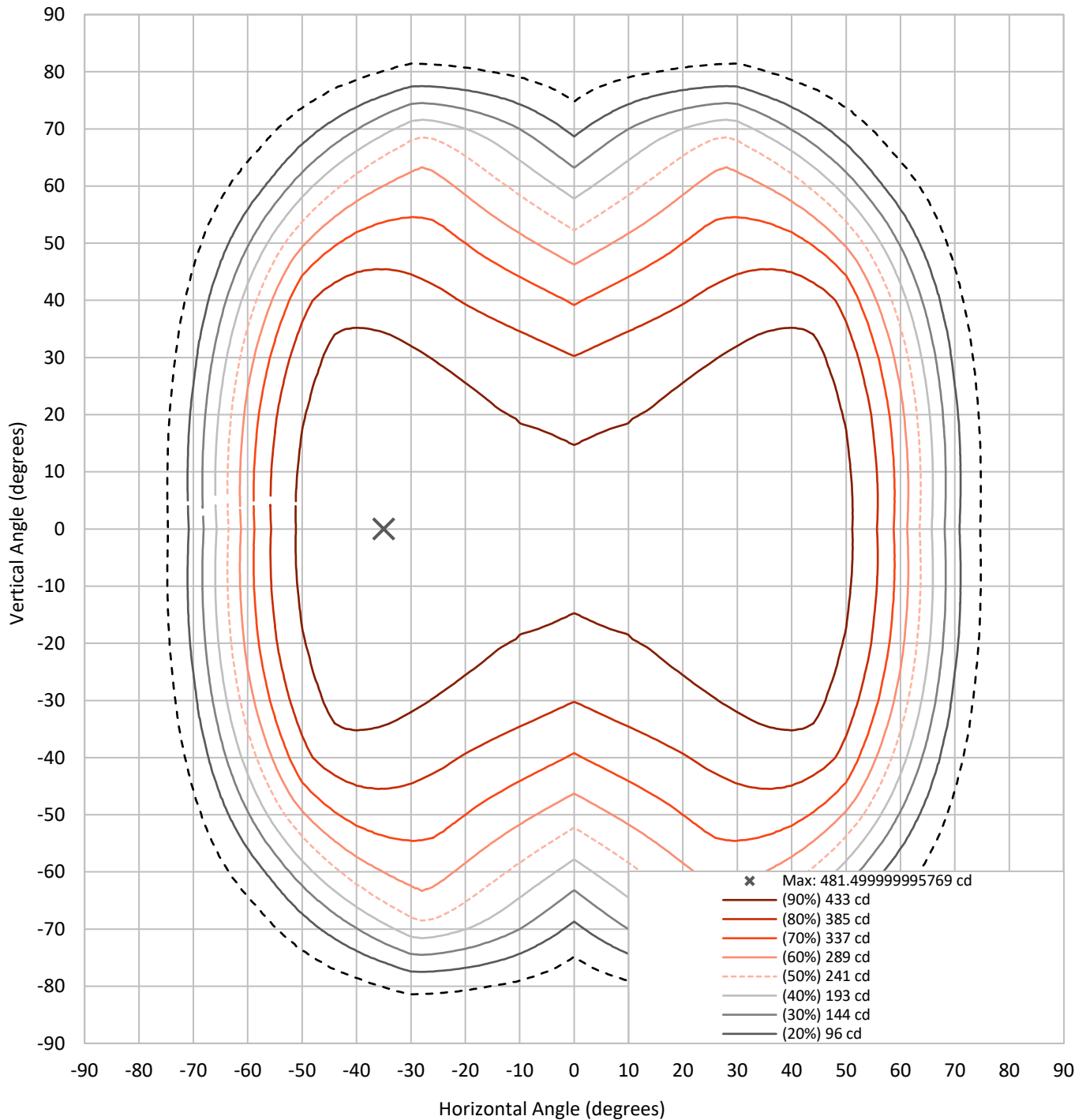
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	1656.3 lumens	Max Intensity:	481.5 candela
Efficiency:	N/A	Max Intensity Angle:	-35°H x 0°V
Efficacy:	141.6 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:	1437.7 lumens	Field Lumens:	1636.2 lumens
Beam Efficiency:	86.8%	Field Efficiency:	98.8%
Input Watts (W):	11.7		
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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CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

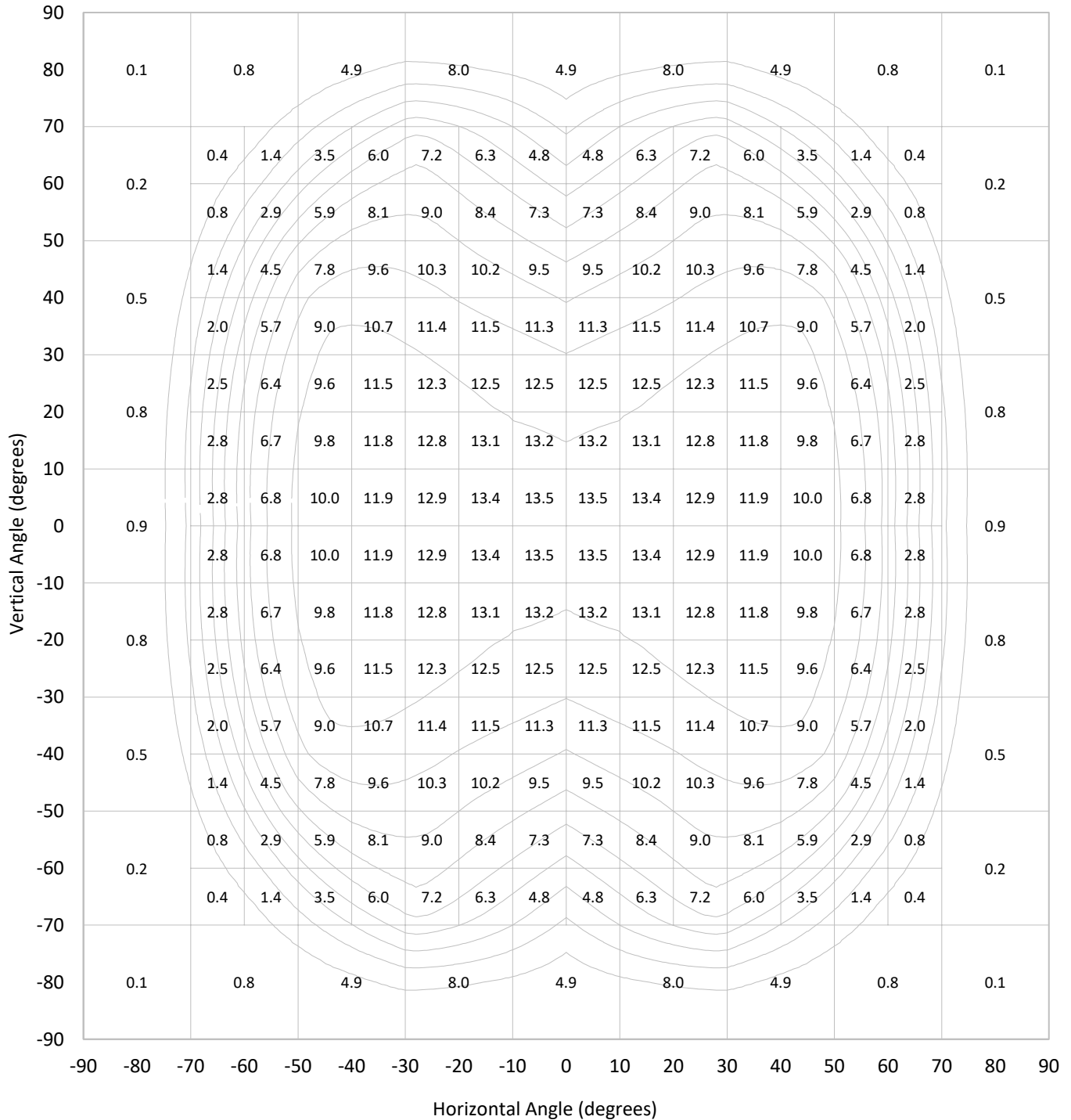
### Iso-Candela Plot





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### Lumen Table



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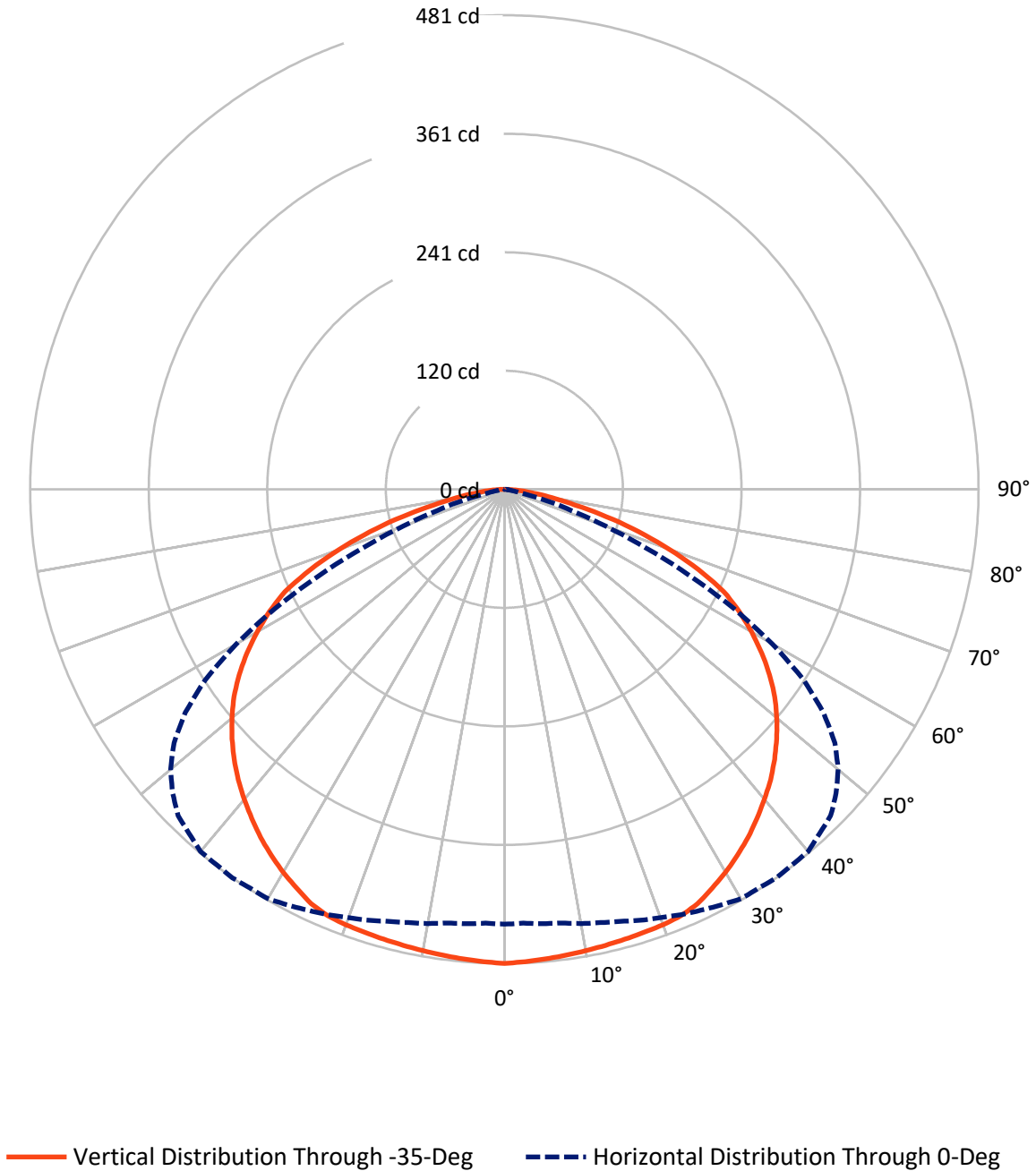
Cooper Lighting Solutions Photometric Lab  
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Scaled Data Report



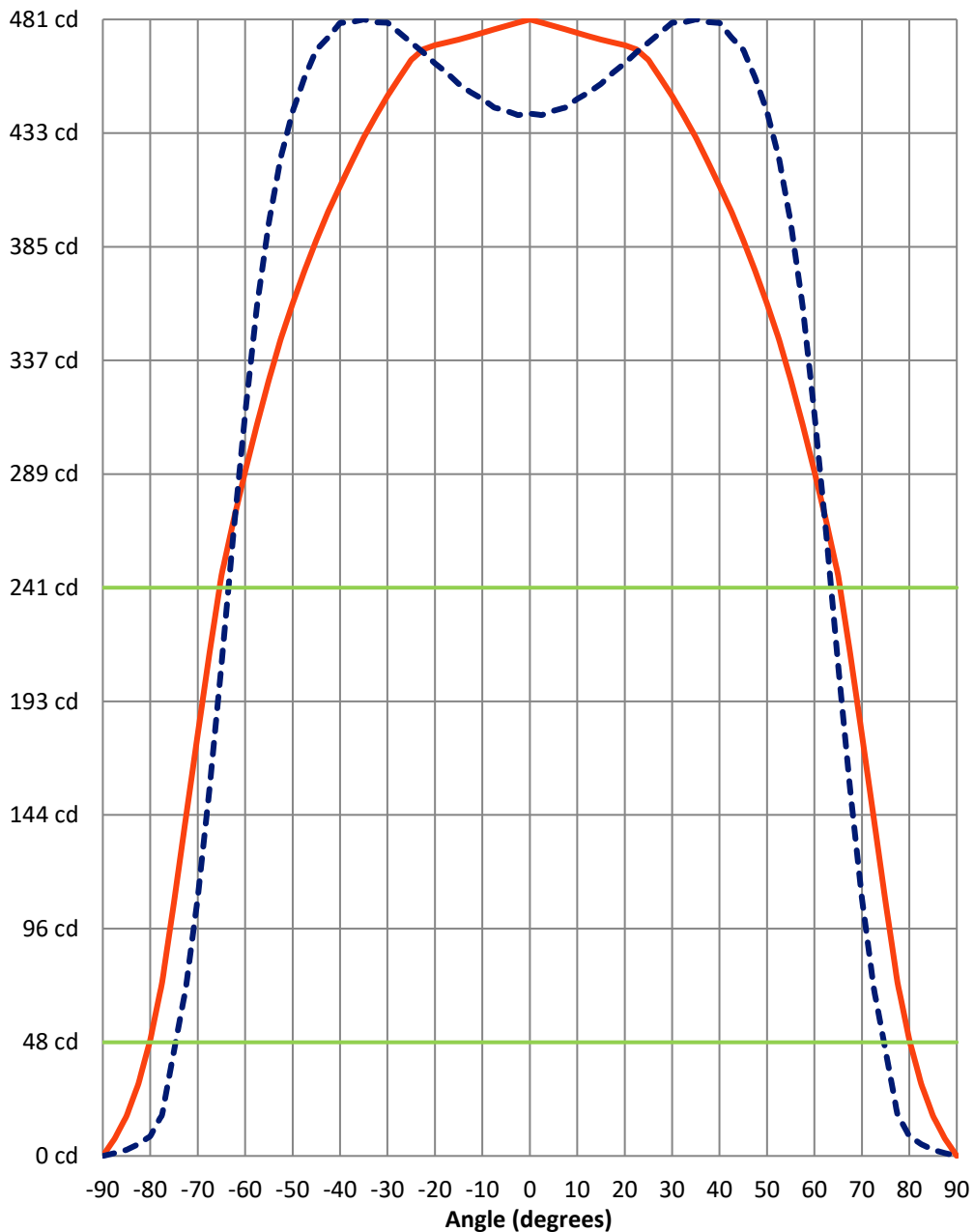
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 127°  
 V Angle: 130.8°  
 Lumens: 1437.7  
 Efficiency: 86.8%

**Field:**  
 H Angle: 149.3°  
 V Angle: 160.3°  
 Lumens: 1636.2  
 Efficiency: 98.8%

**Spill:**  
 Lumens: 20.2  
 Efficiency: 1.2%

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

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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	0.9	1.2	1.5	1.8	2.2
85°	0.0	0.1	0.3	0.6	1.0	1.4	1.9	2.4	3.0	3.7	4.4
82.5°	0.0	0.2	0.5	0.9	1.4	2.1	2.8	3.6	4.4	5.2	6.1
80°	0.0	0.3	0.7	1.2	1.9	2.7	3.6	4.5	5.5	6.5	7.5
77.5°	0.0	0.3	0.9	1.5	2.4	3.3	4.3	5.4	6.5	7.7	9.0
75°	0.0	0.4	1.0	1.8	2.8	3.8	4.9	6.2	7.5	8.9	10.5
72.5°	0.0	0.5	1.2	2.1	3.2	4.3	5.6	7.0	8.6	10.2	12.0
70°	0.0	0.5	1.3	2.4	3.5	4.8	6.2	7.9	9.6	11.5	15.5
67.5°	0.0	0.6	1.5	2.6	3.9	5.2	6.9	8.7	10.7	14.8	19.4
65°	0.0	0.7	1.6	2.8	4.2	5.7	7.6	9.5	13.3	18.0	24.3
62.5°	0.0	0.7	1.8	3.0	4.5	6.2	8.2	11.2	15.8	21.6	31.7
60°	0.0	0.8	1.9	3.2	4.8	6.7	8.9	13.2	18.2	27.7	38.8
57.5°	0.0	0.8	2.0	3.4	5.1	7.2	10.3	15.1	22.6	33.5	47.8
55°	0.0	0.9	2.1	3.6	5.5	7.7	11.7	16.8	27.2	39.7	57.7
52.5°	0.0	0.9	2.2	3.7	5.8	8.2	12.9	20.2	31.5	48.2	67.2
50°	0.0	1.0	2.3	3.9	6.1	9.1	14.1	23.6	36.5	56.3	79.5
47.5°	0.0	1.0	2.4	4.0	6.4	10.0	15.4	26.7	43.4	64.1	91.4
45°	0.0	1.0	2.5	4.2	6.7	10.8	17.9	29.6	49.9	74.0	102.5
42.5°	0.0	1.1	2.5	4.4	6.9	11.5	20.1	33.9	56.2	83.2	115.3
40°	0.0	1.1	2.6	4.6	7.3	12.1	22.1	39.0	62.5	91.6	127.6
37.5°	0.0	1.1	2.7	4.7	7.7	12.7	24.0	43.8	69.4	100.0	138.9
35°	0.0	1.2	2.7	4.9	8.1	13.7	25.5	48.2	75.7	109.3	149.9
32.5°	0.0	1.2	2.7	5.0	8.4	15.0	27.5	52.3	81.3	117.8	160.8
30°	0.0	1.2	2.8	5.1	8.7	16.0	30.7	56.2	86.3	125.4	170.6
27.5°	0.0	1.2	2.8	5.2	9.0	16.9	33.6	60.2	91.3	132.1	179.4
25°	0.0	1.2	2.8	5.2	9.1	17.7	36.2	63.6	96.6	138.7	187.0
22.5°	0.0	1.3	2.8	5.3	9.3	18.3	38.5	66.6	101.2	144.7	194.0
20°	0.0	1.3	2.8	5.3	9.3	18.7	40.4	69.0	105.0	149.7	199.9
17.5°	0.0	1.3	2.8	5.4	9.3	19.0	42.1	70.9	108.1	153.8	204.8
15°	0.0	1.3	2.8	5.4	9.3	19.2	43.4	72.4	110.4	156.9	208.5
12.5°	0.0	1.3	2.8	5.3	9.2	19.2	44.4	73.3	111.9	159.0	211.2
10°	0.0	1.3	2.8	5.3	9.1	19.1	45.1	73.7	112.8	160.2	212.7
7.5°	0.0	1.2	2.7	5.3	9.0	18.9	45.4	73.7	112.9	160.5	213.1
5°	0.0	1.2	2.7	5.2	8.8	18.6	45.4	73.3	112.3	159.8	212.5
2.5°	0.0	1.2	2.6	5.1	8.6	18.1	45.1	72.4	111.1	158.2	210.7
0°	0.0	1.2	2.6	5.0	8.4	17.6	44.5	71.2	109.3	155.8	207.9
-2.5°	0.0	1.2	2.6	5.1	8.6	18.1	45.1	72.4	111.1	158.2	210.7
-5°	0.0	1.2	2.7	5.2	8.8	18.6	45.4	73.3	112.3	159.8	212.5
-7.5°	0.0	1.2	2.7	5.3	9.0	18.9	45.4	73.7	112.9	160.5	213.1
-10°	0.0	1.3	2.8	5.3	9.1	19.1	45.1	73.7	112.8	160.2	212.7
-12.5°	0.0	1.3	2.8	5.3	9.2	19.2	44.4	73.3	111.9	159.0	211.2
-15°	0.0	1.3	2.8	5.4	9.3	19.2	43.4	72.4	110.4	156.9	208.5
-17.5°	0.0	1.3	2.8	5.4	9.3	19.0	42.1	70.9	108.1	153.8	204.8
-20°	0.0	1.3	2.8	5.3	9.3	18.7	40.4	69.0	105.0	149.7	199.9

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**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	2.8	5.3	9.3	18.3	38.5	66.6	101.2	144.7	194.0
-25°	0.0	1.2	2.8	5.2	9.1	17.7	36.2	63.6	96.6	138.7	187.0
-27.5°	0.0	1.2	2.8	5.2	9.0	16.9	33.6	60.2	91.3	132.1	179.4
-30°	0.0	1.2	2.8	5.1	8.7	16.0	30.7	56.2	86.3	125.4	170.6
-32.5°	0.0	1.2	2.7	5.0	8.4	15.0	27.5	52.3	81.3	117.8	160.8
-35°	0.0	1.2	2.7	4.9	8.1	13.7	25.5	48.2	75.7	109.3	149.9
-37.5°	0.0	1.1	2.7	4.7	7.7	12.7	24.0	43.8	69.4	100.0	138.9
-40°	0.0	1.1	2.6	4.6	7.3	12.1	22.1	39.0	62.5	91.6	127.6
-42.5°	0.0	1.1	2.5	4.4	6.9	11.5	20.1	33.9	56.2	83.2	115.3
-45°	0.0	1.0	2.5	4.2	6.7	10.8	17.9	29.6	49.9	74.0	102.5
-47.5°	0.0	1.0	2.4	4.0	6.4	10.0	15.4	26.7	43.4	64.1	91.4
-50°	0.0	1.0	2.3	3.9	6.1	9.1	14.1	23.6	36.5	56.3	79.5
-52.5°	0.0	0.9	2.2	3.7	5.8	8.2	12.9	20.2	31.5	48.2	67.2
-55°	0.0	0.9	2.1	3.6	5.5	7.7	11.7	16.8	27.2	39.7	57.7
-57.5°	0.0	0.8	2.0	3.4	5.1	7.2	10.3	15.1	22.6	33.5	47.8
-60°	0.0	0.8	1.9	3.2	4.8	6.7	8.9	13.2	18.2	27.7	38.8
-62.5°	0.0	0.7	1.8	3.0	4.5	6.2	8.2	11.2	15.8	21.6	31.7
-65°	0.0	0.7	1.6	2.8	4.2	5.7	7.6	9.5	13.3	18.0	24.3
-67.5°	0.0	0.6	1.5	2.6	3.9	5.2	6.9	8.7	10.7	14.8	19.4
-70°	0.0	0.5	1.3	2.4	3.5	4.8	6.2	7.9	9.6	11.5	15.5
-72.5°	0.0	0.5	1.2	2.1	3.2	4.3	5.6	7.0	8.6	10.2	12.0
-75°	0.0	0.4	1.0	1.8	2.8	3.8	4.9	6.2	7.5	8.9	10.5
-77.5°	0.0	0.3	0.9	1.5	2.4	3.3	4.3	5.4	6.5	7.7	9.0
-80°	0.0	0.3	0.7	1.2	1.9	2.7	3.6	4.5	5.5	6.5	7.5
-82.5°	0.0	0.2	0.5	0.9	1.4	2.1	2.8	3.6	4.4	5.2	6.1
-85°	0.0	0.1	0.3	0.6	1.0	1.4	1.9	2.4	3.0	3.7	4.4
-87.5°	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2
-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: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**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°	2.6	3.0	3.4	3.8	4.2	4.6	5.1	5.5	6.0	6.4	6.9
85°	5.2	6.0	6.6	7.4	8.3	9.3	10.3	11.5	12.8	14.1	15.5
82.5°	7.0	7.9	9.1	10.5	12.2	13.9	15.9	18.3	21.1	24.0	27.2
80°	8.6	9.8	11.7	14.1	16.9	20.1	23.8	27.8	32.1	37.2	43.1
77.5°	10.3	11.8	14.4	17.9	22.1	28.1	34.5	41.4	48.6	56.2	64.2
75°	12.1	13.7	18.4	24.7	31.7	39.2	47.7	58.8	70.4	82.5	94.8
72.5°	15.1	19.1	24.8	32.4	43.5	55.6	68.4	81.9	96.4	111.8	127.4
70°	19.8	24.5	33.5	45.9	59.2	73.9	90.1	107.0	124.4	142.4	160.7
67.5°	25.1	34.3	44.8	59.4	76.5	94.3	112.7	133.8	154.5	174.7	194.4
65°	34.0	44.4	57.2	75.1	94.0	117.2	140.3	162.9	185.7	207.4	228.0
62.5°	42.5	56.6	71.4	92.1	117.7	142.8	168.7	193.9	217.7	237.4	254.3
60°	53.5	69.3	88.8	114.2	141.9	170.9	198.5	223.3	244.8	263.5	278.0
57.5°	64.8	85.0	109.4	137.1	168.8	199.1	226.7	251.1	271.2	287.8	300.9
55°	77.4	102.7	130.7	162.4	195.8	227.2	254.8	277.7	297.2	310.9	321.7
52.5°	92.6	120.3	153.3	187.9	223.6	255.1	281.9	303.6	320.2	332.8	340.6
50°	106.8	139.9	175.3	213.6	251.0	282.3	307.6	327.6	341.7	351.8	358.0
47.5°	122.6	158.4	197.7	237.8	276.7	307.8	332.0	348.8	361.6	369.0	374.0
45°	138.4	177.3	218.9	259.9	299.2	332.1	353.0	369.1	378.6	385.2	387.5
42.5°	153.0	195.5	238.4	280.9	318.7	351.8	373.1	385.9	394.7	398.8	400.4
40°	168.3	212.5	256.7	298.3	336.2	366.8	390.1	402.3	408.4	411.6	412.6
37.5°	182.7	228.1	273.3	314.8	349.8	379.5	403.9	415.8	421.2	423.9	423.2
35°	195.8	242.7	287.7	328.7	363.2	390.6	412.0	428.3	433.3	434.3	433.5
32.5°	208.0	256.2	301.3	340.4	373.5	400.5	419.9	434.4	443.9	444.6	443.4
30°	219.1	267.6	313.2	351.5	383.2	407.6	426.2	440.1	449.7	454.1	452.4
27.5°	229.1	278.0	322.5	360.5	392.0	414.7	431.9	444.4	453.4	459.8	460.8
25°	238.0	287.5	331.2	368.4	398.0	420.2	437.0	448.6	456.8	462.4	465.5
22.5°	245.5	295.8	339.1	375.8	403.8	425.0	440.7	451.8	459.9	465.1	467.2
20°	251.9	301.8	345.4	382.2	409.2	429.7	444.3	454.9	462.4	466.8	469.1
17.5°	257.3	307.0	350.3	386.2	413.0	433.3	447.5	457.8	465.0	468.5	471.1
15°	261.6	311.2	354.6	389.6	416.1	435.8	449.8	460.0	467.0	470.2	473.2
12.5°	264.8	314.5	358.0	392.6	418.8	438.1	451.8	462.0	468.4	472.1	474.4
10°	266.9	316.7	360.6	394.8	421.0	439.9	453.6	463.9	469.7	473.9	475.6
7.5°	267.8	317.9	362.1	396.3	422.6	441.4	455.0	465.5	471.0	475.6	476.8
5°	267.5	317.9	362.6	396.9	423.5	442.3	456.1	467.0	472.1	477.3	478.0
2.5°	265.9	316.7	362.0	396.6	423.6	442.6	456.7	468.1	473.1	478.8	479.2
0°	263.1	314.3	360.2	395.4	422.9	442.4	456.8	468.6	473.9	480.0	480.4
-2.5°	265.9	316.7	362.0	396.6	423.6	442.6	456.7	468.1	473.1	478.8	479.2
-5°	267.5	317.9	362.6	396.9	423.5	442.3	456.1	467.0	472.1	477.3	478.0
-7.5°	267.8	317.9	362.1	396.3	422.6	441.4	455.0	465.5	471.0	475.6	476.8
-10°	266.9	316.7	360.6	394.8	421.0	439.9	453.6	463.9	469.7	473.9	475.6
-12.5°	264.8	314.5	358.0	392.6	418.8	438.1	451.8	462.0	468.4	472.1	474.4
-15°	261.6	311.2	354.6	389.6	416.1	435.8	449.8	460.0	467.0	470.2	473.2
-17.5°	257.3	307.0	350.3	386.2	413.0	433.3	447.5	457.8	465.0	468.5	471.1
-20°	251.9	301.8	345.4	382.2	409.2	429.7	444.3	454.9	462.4	466.8	469.1

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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	245.5	295.8	339.1	375.8	403.8	425.0	440.7	451.8	459.9	465.1	467.2
-25°	238.0	287.5	331.2	368.4	398.0	420.2	437.0	448.6	456.8	462.4	465.5
-27.5°	229.1	278.0	322.5	360.5	392.0	414.7	431.9	444.4	453.4	459.8	460.8
-30°	219.1	267.6	313.2	351.5	383.2	407.6	426.2	440.1	449.7	454.1	452.4
-32.5°	208.0	256.2	301.3	340.4	373.5	400.5	419.9	434.4	443.9	444.6	443.4
-35°	195.8	242.7	287.7	328.7	363.2	390.6	412.0	428.3	433.3	434.3	433.5
-37.5°	182.7	228.1	273.3	314.8	349.8	379.5	403.9	415.8	421.2	423.9	423.2
-40°	168.3	212.5	256.7	298.3	336.2	366.8	390.1	402.3	408.4	411.6	412.6
-42.5°	153.0	195.5	238.4	280.9	318.7	351.8	373.1	385.9	394.7	398.8	400.4
-45°	138.4	177.3	218.9	259.9	299.2	332.1	353.0	369.1	378.6	385.2	387.5
-47.5°	122.6	158.4	197.7	237.8	276.7	307.8	332.0	348.8	361.6	369.0	374.0
-50°	106.8	139.9	175.3	213.6	251.0	282.3	307.6	327.6	341.7	351.8	358.0
-52.5°	92.6	120.3	153.3	187.9	223.6	255.1	281.9	303.6	320.2	332.8	340.6
-55°	77.4	102.7	130.7	162.4	195.8	227.2	254.8	277.7	297.2	310.9	321.7
-57.5°	64.8	85.0	109.4	137.1	168.8	199.1	226.7	251.1	271.2	287.8	300.9
-60°	53.5	69.3	88.8	114.2	141.9	170.9	198.5	223.3	244.8	263.5	278.0
-62.5°	42.5	56.6	71.4	92.1	117.7	142.8	168.7	193.9	217.7	237.4	254.3
-65°	34.0	44.4	57.2	75.1	94.0	117.2	140.3	162.9	185.7	207.4	228.0
-67.5°	25.1	34.3	44.8	59.4	76.5	94.3	112.7	133.8	154.5	174.7	194.4
-70°	19.8	24.5	33.5	45.9	59.2	73.9	90.1	107.0	124.4	142.4	160.7
-72.5°	15.1	19.1	24.8	32.4	43.5	55.6	68.4	81.9	96.4	111.8	127.4
-75°	12.1	13.7	18.4	24.7	31.7	39.2	47.7	58.8	70.4	82.5	94.8
-77.5°	10.3	11.8	14.4	17.9	22.1	28.1	34.5	41.4	48.6	56.2	64.2
-80°	8.6	9.8	11.7	14.1	16.9	20.1	23.8	27.8	32.1	37.2	43.1
-82.5°	7.0	7.9	9.1	10.5	12.2	13.9	15.9	18.3	21.1	24.0	27.2
-85°	5.2	6.0	6.6	7.4	8.3	9.3	10.3	11.5	12.8	14.1	15.5
-87.5°	2.6	3.0	3.4	3.8	4.2	4.6	5.1	5.5	6.0	6.4	6.9
-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: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**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°	7.4	7.8	8.3	8.1	7.9	7.7	7.4	7.2	6.9	6.5	6.2
85°	16.9	18.4	20.0	19.5	18.9	18.2	17.3	16.4	15.4	14.4	13.3
82.5°	30.6	34.0	37.6	37.1	36.0	34.5	32.8	30.8	28.6	26.2	23.7
80°	49.2	55.4	61.8	61.7	59.8	57.4	54.5	51.2	47.5	43.5	39.1
77.5°	73.6	83.7	94.0	95.4	93.0	89.8	85.7	80.8	75.2	68.9	62.1
75°	107.4	120.4	133.9	136.7	132.9	128.0	122.0	115.0	107.1	98.4	89.0
72.5°	143.2	159.2	175.1	179.5	173.6	166.4	158.2	148.9	138.8	127.7	115.9
70°	178.5	195.8	212.6	219.8	212.2	203.4	193.4	182.5	170.7	158.0	144.5
67.5°	213.2	231.0	247.7	258.2	247.5	235.2	222.5	209.4	196.0	182.2	167.9
65°	245.9	259.5	271.3	280.2	268.6	256.0	243.2	230.0	216.6	202.8	188.7
62.5°	268.8	280.1	288.9	295.6	286.5	274.2	261.6	248.8	235.7	222.4	208.9
60°	289.9	299.2	305.2	309.0	302.7	290.9	278.8	266.6	254.2	241.6	228.7
57.5°	309.9	316.5	320.5	322.0	317.9	306.7	295.1	283.4	271.7	259.8	247.7
55°	328.8	332.8	335.0	334.5	331.5	320.6	309.8	299.0	288.1	277.2	266.1
52.5°	346.1	348.0	348.0	346.2	342.8	333.6	323.8	313.9	304.0	294.0	283.8
50°	361.1	361.8	360.2	357.4	353.3	346.2	337.2	328.1	318.9	309.8	300.5
47.5°	375.0	374.4	372.1	368.6	364.0	357.7	349.2	341.0	333.1	325.1	316.9
45°	388.0	386.3	383.5	379.1	373.8	368.3	361.4	354.4	347.0	339.6	332.1
42.5°	400.1	397.5	393.8	389.5	384.7	379.0	372.3	365.6	359.3	352.9	346.4
40°	410.8	408.1	404.4	400.0	394.3	388.3	382.4	376.8	371.4	365.7	359.9
37.5°	421.3	418.5	414.2	409.1	403.7	398.3	392.6	387.5	382.6	377.5	372.2
35°	431.5	427.7	423.2	418.2	413.2	407.9	402.4	397.1	392.6	388.2	383.7
32.5°	440.5	436.5	431.8	427.1	422.2	416.8	411.3	405.9	401.9	398.0	394.0
30°	449.1	444.6	440.1	435.6	430.2	425.0	419.9	414.6	410.1	406.7	403.3
27.5°	456.8	452.5	448.2	442.9	437.9	433.1	427.8	422.7	417.8	415.0	411.9
25°	464.3	460.2	455.1	450.2	445.4	440.1	435.0	430.3	425.3	421.5	419.0
22.5°	468.8	467.0	461.9	457.3	451.8	446.6	441.6	436.9	431.9	427.2	425.0
20°	470.6	470.1	468.8	463.3	457.7	452.4	447.7	442.3	437.5	433.8	431.1
17.5°	471.8	471.5	470.9	469.1	463.1	458.2	452.4	447.0	443.4	439.1	434.9
15°	473.0	473.1	471.7	469.6	467.5	463.0	456.2	452.3	447.4	443.2	440.3
12.5°	474.3	474.3	472.7	470.6	468.5	464.2	461.1	456.0	450.9	447.5	443.9
10°	475.8	475.3	473.7	471.6	468.5	464.4	462.0	458.1	454.4	450.2	446.6
7.5°	477.3	476.4	475.0	472.6	468.7	465.1	461.6	458.1	455.3	452.4	448.7
5°	478.7	477.6	476.6	473.5	469.2	465.7	461.6	458.2	454.6	451.7	449.1
2.5°	480.1	478.9	478.3	474.6	470.2	466.6	462.1	458.3	454.2	450.9	448.1
0°	481.5	480.3	480.1	475.9	471.7	467.6	462.9	458.9	454.2	450.7	447.8
-2.5°	480.1	478.9	478.3	474.6	470.2	466.6	462.1	458.3	454.2	450.9	448.1
-5°	478.7	477.6	476.6	473.5	469.2	465.7	461.6	458.2	454.6	451.7	449.1
-7.5°	477.3	476.4	475.0	472.6	468.7	465.1	461.6	458.1	455.3	452.4	448.7
-10°	475.8	475.3	473.7	471.6	468.5	464.4	462.0	458.1	454.4	450.2	446.6
-12.5°	474.3	474.3	472.7	470.6	468.5	464.2	461.1	456.0	450.9	447.5	443.9
-15°	473.0	473.1	471.7	469.6	467.5	463.0	456.2	452.3	447.4	443.2	440.3
-17.5°	471.8	471.5	470.9	469.1	463.1	458.2	452.4	447.0	443.4	439.1	434.9
-20°	470.6	470.1	468.8	463.3	457.7	452.4	447.7	442.3	437.5	433.8	431.1



REPORT NUMBER: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	468.8	467.0	461.9	457.3	451.8	446.6	441.6	436.9	431.9	427.2	425.0
-25°	464.3	460.2	455.1	450.2	445.4	440.1	435.0	430.3	425.3	421.5	419.0
-27.5°	456.8	452.5	448.2	442.9	437.9	433.1	427.8	422.7	417.8	415.0	411.9
-30°	449.1	444.6	440.1	435.6	430.2	425.0	419.9	414.6	410.1	406.7	403.3
-32.5°	440.5	436.5	431.8	427.1	422.2	416.8	411.3	405.9	401.9	398.0	394.0
-35°	431.5	427.7	423.2	418.2	413.2	407.9	402.4	397.1	392.6	388.2	383.7
-37.5°	421.3	418.5	414.2	409.1	403.7	398.3	392.6	387.5	382.6	377.5	372.2
-40°	410.8	408.1	404.4	400.0	394.3	388.3	382.4	376.8	371.4	365.7	359.9
-42.5°	400.1	397.5	393.8	389.5	384.7	379.0	372.3	365.6	359.3	352.9	346.4
-45°	388.0	386.3	383.5	379.1	373.8	368.3	361.4	354.4	347.0	339.6	332.1
-47.5°	375.0	374.4	372.1	368.6	364.0	357.7	349.2	341.0	333.1	325.1	316.9
-50°	361.1	361.8	360.2	357.4	353.3	346.2	337.2	328.1	318.9	309.8	300.5
-52.5°	346.1	348.0	348.0	346.2	342.8	333.6	323.8	313.9	304.0	294.0	283.8
-55°	328.8	332.8	335.0	334.5	331.5	320.6	309.8	299.0	288.1	277.2	266.1
-57.5°	309.9	316.5	320.5	322.0	317.9	306.7	295.1	283.4	271.7	259.8	247.7
-60°	289.9	299.2	305.2	309.0	302.7	290.9	278.8	266.6	254.2	241.6	228.7
-62.5°	268.8	280.1	288.9	295.6	286.5	274.2	261.6	248.8	235.7	222.4	208.9
-65°	245.9	259.5	271.3	280.2	268.6	256.0	243.2	230.0	216.6	202.8	188.7
-67.5°	213.2	231.0	247.7	258.2	247.5	235.2	222.5	209.4	196.0	182.2	167.9
-70°	178.5	195.8	212.6	219.8	212.2	203.4	193.4	182.5	170.7	158.0	144.5
-72.5°	143.2	159.2	175.1	179.5	173.6	166.4	158.2	148.9	138.8	127.7	115.9
-75°	107.4	120.4	133.9	136.7	132.9	128.0	122.0	115.0	107.1	98.4	89.0
-77.5°	73.6	83.7	94.0	95.4	93.0	89.8	85.7	80.8	75.2	68.9	62.1
-80°	49.2	55.4	61.8	61.7	59.8	57.4	54.5	51.2	47.5	43.5	39.1
-82.5°	30.6	34.0	37.6	37.1	36.0	34.5	32.8	30.8	28.6	26.2	23.7
-85°	16.9	18.4	20.0	19.5	18.9	18.2	17.3	16.4	15.4	14.4	13.3
-87.5°	7.4	7.8	8.3	8.1	7.9	7.7	7.4	7.2	6.9	6.5	6.2
-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: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**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°	5.9	5.4	5.0	4.6	5.0	5.4	5.9	6.2	6.5	6.9	7.2
85°	12.1	10.9	9.6	8.3	9.6	10.9	12.1	13.3	14.4	15.4	16.4
82.5°	21.0	18.3	15.5	12.6	15.5	18.3	21.0	23.7	26.2	28.6	30.8
80°	34.5	29.7	24.6	19.6	24.6	29.7	34.5	39.1	43.5	47.5	51.2
77.5°	54.9	47.2	39.2	31.1	39.2	47.2	54.9	62.1	68.9	75.2	80.8
75°	79.0	68.5	57.6	46.4	57.6	68.5	79.0	89.0	98.4	107.1	115.0
72.5°	103.4	90.4	76.9	63.1	76.9	90.4	103.4	115.9	127.7	138.8	148.9
70°	130.3	115.4	100.0	84.2	100.0	115.4	130.3	144.5	158.0	170.7	182.5
67.5°	153.3	138.3	122.9	107.0	122.9	138.3	153.3	167.9	182.2	196.0	209.4
65°	174.3	159.4	144.2	128.5	144.2	159.4	174.3	188.7	202.8	216.6	230.0
62.5°	194.9	180.6	165.9	150.7	165.9	180.6	194.9	208.9	222.4	235.7	248.8
60°	215.4	201.7	187.6	173.0	187.6	201.7	215.4	228.7	241.6	254.2	266.6
57.5°	235.3	222.5	209.3	195.5	209.3	222.5	235.3	247.7	259.8	271.7	283.4
55°	254.6	242.8	230.5	217.6	230.5	242.8	254.6	266.1	277.2	288.1	299.0
52.5°	273.3	262.4	250.9	238.9	250.9	262.4	273.3	283.8	294.0	304.0	313.9
50°	290.9	281.0	270.5	259.5	270.5	281.0	290.9	300.5	309.8	318.9	328.1
47.5°	308.4	299.3	289.8	279.5	289.8	299.3	308.4	316.9	325.1	333.1	341.0
45°	324.4	316.4	307.8	298.6	307.8	316.4	324.4	332.1	339.6	347.0	354.4
42.5°	339.5	332.2	324.4	315.8	324.4	332.2	339.5	346.4	352.9	359.3	365.6
40°	353.7	347.2	340.0	332.2	340.0	347.2	353.7	359.9	365.7	371.4	376.8
37.5°	366.8	360.9	354.5	347.3	354.5	360.9	366.8	372.2	377.5	382.6	387.5
35°	378.9	373.7	368.1	361.7	368.1	373.7	378.9	383.7	388.2	392.6	397.1
32.5°	389.6	385.0	379.7	373.9	379.7	385.0	389.6	394.0	398.0	401.9	405.9
30°	399.8	395.9	391.5	386.4	391.5	395.9	399.8	403.3	406.7	410.1	414.6
27.5°	408.9	405.6	401.9	397.6	401.9	405.6	408.9	411.9	415.0	417.8	422.7
25°	416.2	413.0	409.6	405.4	409.6	413.0	416.2	419.0	421.5	425.3	430.3
22.5°	423.0	420.8	418.1	414.7	418.1	420.8	423.0	425.0	427.2	431.9	436.9
20°	429.1	427.5	425.7	423.4	425.7	427.5	429.1	431.1	433.8	437.5	442.3
17.5°	433.9	432.6	430.8	428.3	430.8	432.6	433.9	434.9	439.1	443.4	447.0
15°	437.9	436.4	434.7	432.7	434.7	436.4	437.9	440.3	443.2	447.4	452.3
12.5°	440.8	439.8	439.0	437.7	439.0	439.8	440.8	443.9	447.5	450.9	456.0
10°	444.1	441.6	440.1	438.5	440.1	441.6	444.1	446.6	450.2	454.4	458.1
7.5°	445.2	442.8	442.3	442.3	442.3	442.8	445.2	448.7	452.4	455.3	458.1
5°	446.5	444.3	443.5	442.5	443.5	444.3	446.5	449.1	451.7	454.6	458.2
2.5°	445.6	443.8	442.8	443.4	442.8	443.8	445.6	448.1	450.9	454.2	458.3
0°	444.2	442.8	441.0	441.6	441.0	442.8	444.2	447.8	450.7	454.2	458.9
-2.5°	445.6	443.8	442.8	443.4	442.8	443.8	445.6	448.1	450.9	454.2	458.3
-5°	446.5	444.3	443.5	442.5	443.5	444.3	446.5	449.1	451.7	454.6	458.2
-7.5°	445.2	442.8	442.3	442.3	442.3	442.8	445.2	448.7	452.4	455.3	458.1
-10°	444.1	441.6	440.1	438.5	440.1	441.6	444.1	446.6	450.2	454.4	458.1
-12.5°	440.8	439.8	439.0	437.7	439.0	439.8	440.8	443.9	447.5	450.9	456.0
-15°	437.9	436.4	434.7	432.7	434.7	436.4	437.9	440.3	443.2	447.4	452.3
-17.5°	433.9	432.6	430.8	428.3	430.8	432.6	433.9	434.9	439.1	443.4	447.0
-20°	429.1	427.5	425.7	423.4	425.7	427.5	429.1	431.1	433.8	437.5	442.3

Classified

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

Scaled Data Report



REPORT NUMBER: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	423.0	420.8	418.1	414.7	418.1	420.8	423.0	425.0	427.2	431.9	436.9
-25°	416.2	413.0	409.6	405.4	409.6	413.0	416.2	419.0	421.5	425.3	430.3
-27.5°	408.9	405.6	401.9	397.6	401.9	405.6	408.9	411.9	415.0	417.8	422.7
-30°	399.8	395.9	391.5	386.4	391.5	395.9	399.8	403.3	406.7	410.1	414.6
-32.5°	389.6	385.0	379.7	373.9	379.7	385.0	389.6	394.0	398.0	401.9	405.9
-35°	378.9	373.7	368.1	361.7	368.1	373.7	378.9	383.7	388.2	392.6	397.1
-37.5°	366.8	360.9	354.5	347.3	354.5	360.9	366.8	372.2	377.5	382.6	387.5
-40°	353.7	347.2	340.0	332.2	340.0	347.2	353.7	359.9	365.7	371.4	376.8
-42.5°	339.5	332.2	324.4	315.8	324.4	332.2	339.5	346.4	352.9	359.3	365.6
-45°	324.4	316.4	307.8	298.6	307.8	316.4	324.4	332.1	339.6	347.0	354.4
-47.5°	308.4	299.3	289.8	279.5	289.8	299.3	308.4	316.9	325.1	333.1	341.0
-50°	290.9	281.0	270.5	259.5	270.5	281.0	290.9	300.5	309.8	318.9	328.1
-52.5°	273.3	262.4	250.9	238.9	250.9	262.4	273.3	283.8	294.0	304.0	313.9
-55°	254.6	242.8	230.5	217.6	230.5	242.8	254.6	266.1	277.2	288.1	299.0
-57.5°	235.3	222.5	209.3	195.5	209.3	222.5	235.3	247.7	259.8	271.7	283.4
-60°	215.4	201.7	187.6	173.0	187.6	201.7	215.4	228.7	241.6	254.2	266.6
-62.5°	194.9	180.6	165.9	150.7	165.9	180.6	194.9	208.9	222.4	235.7	248.8
-65°	174.3	159.4	144.2	128.5	144.2	159.4	174.3	188.7	202.8	216.6	230.0
-67.5°	153.3	138.3	122.9	107.0	122.9	138.3	153.3	167.9	182.2	196.0	209.4
-70°	130.3	115.4	100.0	84.2	100.0	115.4	130.3	144.5	158.0	170.7	182.5
-72.5°	103.4	90.4	76.9	63.1	76.9	90.4	103.4	115.9	127.7	138.8	148.9
-75°	79.0	68.5	57.6	46.4	57.6	68.5	79.0	89.0	98.4	107.1	115.0
-77.5°	54.9	47.2	39.2	31.1	39.2	47.2	54.9	62.1	68.9	75.2	80.8
-80°	34.5	29.7	24.6	19.6	24.6	29.7	34.5	39.1	43.5	47.5	51.2
-82.5°	21.0	18.3	15.5	12.6	15.5	18.3	21.0	23.7	26.2	28.6	30.8
-85°	12.1	10.9	9.6	8.3	9.6	10.9	12.1	13.3	14.4	15.4	16.4
-87.5°	5.9	5.4	5.0	4.6	5.0	5.4	5.9	6.2	6.5	6.9	7.2
-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: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**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°	7.4	7.7	7.9	8.1	8.3	7.8	7.4	6.9	6.4	6.0	5.5
85°	17.3	18.2	18.9	19.5	20.0	18.4	16.9	15.5	14.1	12.8	11.5
82.5°	32.8	34.5	36.0	37.1	37.6	34.0	30.6	27.2	24.0	21.1	18.3
80°	54.5	57.4	59.8	61.7	61.8	55.4	49.2	43.1	37.2	32.1	27.8
77.5°	85.7	89.8	93.0	95.4	94.0	83.7	73.6	64.2	56.2	48.6	41.4
75°	122.0	128.0	132.9	136.7	133.9	120.4	107.4	94.8	82.5	70.4	58.8
72.5°	158.2	166.4	173.6	179.5	175.1	159.2	143.2	127.4	111.8	96.4	81.9
70°	193.4	203.4	212.2	219.8	212.6	195.8	178.5	160.7	142.4	124.4	107.0
67.5°	222.5	235.2	247.5	258.2	247.7	231.0	213.2	194.4	174.7	154.5	133.8
65°	243.2	256.0	268.6	280.2	271.3	259.5	245.9	228.0	207.4	185.7	162.9
62.5°	261.6	274.2	286.5	295.6	288.9	280.1	268.8	254.3	237.4	217.7	193.9
60°	278.8	290.9	302.7	309.0	305.2	299.2	289.9	278.0	263.5	244.8	223.3
57.5°	295.1	306.7	317.9	322.0	320.5	316.5	309.9	300.9	287.8	271.2	251.1
55°	309.8	320.6	331.5	334.5	335.0	332.8	328.8	321.7	310.9	297.2	277.7
52.5°	323.8	333.6	342.8	346.2	348.0	348.0	346.1	340.6	332.8	320.2	303.6
50°	337.2	346.2	353.3	357.4	360.2	361.8	361.1	358.0	351.8	341.7	327.6
47.5°	349.2	357.7	364.0	368.6	372.1	374.4	375.0	374.0	369.0	361.6	348.8
45°	361.4	368.3	373.8	379.1	383.5	386.3	388.0	387.5	385.2	378.6	369.1
42.5°	372.3	379.0	384.7	389.5	393.8	397.5	400.1	400.4	398.8	394.7	385.9
40°	382.4	388.3	394.3	400.0	404.4	408.1	410.8	412.6	411.6	408.4	402.3
37.5°	392.6	398.3	403.7	409.1	414.2	418.5	421.3	423.2	423.9	421.2	415.8
35°	402.4	407.9	413.2	418.2	423.2	427.7	431.5	433.5	434.3	433.3	428.3
32.5°	411.3	416.8	422.2	427.1	431.8	436.5	440.5	443.4	444.6	443.9	434.4
30°	419.9	425.0	430.2	435.6	440.1	444.6	449.1	452.4	454.1	449.7	440.1
27.5°	427.8	433.1	437.9	442.9	448.2	452.5	456.8	460.8	459.8	453.4	444.4
25°	435.0	440.1	445.4	450.2	455.1	460.2	464.3	465.5	462.4	456.8	448.6
22.5°	441.6	446.6	451.8	457.3	461.9	467.0	468.8	467.2	465.1	459.9	451.8
20°	447.7	452.4	457.7	463.3	468.8	470.1	470.6	469.1	466.8	462.4	454.9
17.5°	452.4	458.2	463.1	469.1	470.9	471.5	471.8	471.1	468.5	465.0	457.8
15°	456.2	463.0	467.5	469.6	471.7	473.1	473.0	473.2	470.2	467.0	460.0
12.5°	461.1	464.2	468.5	470.6	472.7	474.3	474.3	474.4	472.1	468.4	462.0
10°	462.0	464.4	468.5	471.6	473.7	475.3	475.8	475.6	473.9	469.7	463.9
7.5°	461.6	465.1	468.7	472.6	475.0	476.4	477.3	476.8	475.6	471.0	465.5
5°	461.6	465.7	469.2	473.5	476.6	477.6	478.7	478.0	477.3	472.1	467.0
2.5°	462.1	466.6	470.2	474.6	478.3	478.9	480.1	479.2	478.8	473.1	468.1
0°	462.9	467.6	471.7	475.9	480.1	480.3	481.5	480.4	480.0	473.9	468.6
-2.5°	462.1	466.6	470.2	474.6	478.3	478.9	480.1	479.2	478.8	473.1	468.1
-5°	461.6	465.7	469.2	473.5	476.6	477.6	478.7	478.0	477.3	472.1	467.0
-7.5°	461.6	465.1	468.7	472.6	475.0	476.4	477.3	476.8	475.6	471.0	465.5
-10°	462.0	464.4	468.5	471.6	473.7	475.3	475.8	475.6	473.9	469.7	463.9
-12.5°	461.1	464.2	468.5	470.6	472.7	474.3	474.3	474.4	472.1	468.4	462.0
-15°	456.2	463.0	467.5	469.6	471.7	473.1	473.0	473.2	470.2	467.0	460.0
-17.5°	452.4	458.2	463.1	469.1	470.9	471.5	471.8	471.1	468.5	465.0	457.8
-20°	447.7	452.4	457.7	463.3	468.8	470.1	470.6	469.1	466.8	462.4	454.9



REPORT NUMBER: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	441.6	446.6	451.8	457.3	461.9	467.0	468.8	467.2	465.1	459.9	451.8
-25°	435.0	440.1	445.4	450.2	455.1	460.2	464.3	465.5	462.4	456.8	448.6
-27.5°	427.8	433.1	437.9	442.9	448.2	452.5	456.8	460.8	459.8	453.4	444.4
-30°	419.9	425.0	430.2	435.6	440.1	444.6	449.1	452.4	454.1	449.7	440.1
-32.5°	411.3	416.8	422.2	427.1	431.8	436.5	440.5	443.4	444.6	443.9	434.4
-35°	402.4	407.9	413.2	418.2	423.2	427.7	431.5	433.5	434.3	433.3	428.3
-37.5°	392.6	398.3	403.7	409.1	414.2	418.5	421.3	423.2	423.9	421.2	415.8
-40°	382.4	388.3	394.3	400.0	404.4	408.1	410.8	412.6	411.6	408.4	402.3
-42.5°	372.3	379.0	384.7	389.5	393.8	397.5	400.1	400.4	398.8	394.7	385.9
-45°	361.4	368.3	373.8	379.1	383.5	386.3	388.0	387.5	385.2	378.6	369.1
-47.5°	349.2	357.7	364.0	368.6	372.1	374.4	375.0	374.0	369.0	361.6	348.8
-50°	337.2	346.2	353.3	357.4	360.2	361.8	361.1	358.0	351.8	341.7	327.6
-52.5°	323.8	333.6	342.8	346.2	348.0	348.0	346.1	340.6	332.8	320.2	303.6
-55°	309.8	320.6	331.5	334.5	335.0	332.8	328.8	321.7	310.9	297.2	277.7
-57.5°	295.1	306.7	317.9	322.0	320.5	316.5	309.9	300.9	287.8	271.2	251.1
-60°	278.8	290.9	302.7	309.0	305.2	299.2	289.9	278.0	263.5	244.8	223.3
-62.5°	261.6	274.2	286.5	295.6	288.9	280.1	268.8	254.3	237.4	217.7	193.9
-65°	243.2	256.0	268.6	280.2	271.3	259.5	245.9	228.0	207.4	185.7	162.9
-67.5°	222.5	235.2	247.5	258.2	247.7	231.0	213.2	194.4	174.7	154.5	133.8
-70°	193.4	203.4	212.2	219.8	212.6	195.8	178.5	160.7	142.4	124.4	107.0
-72.5°	158.2	166.4	173.6	179.5	175.1	159.2	143.2	127.4	111.8	96.4	81.9
-75°	122.0	128.0	132.9	136.7	133.9	120.4	107.4	94.8	82.5	70.4	58.8
-77.5°	85.7	89.8	93.0	95.4	94.0	83.7	73.6	64.2	56.2	48.6	41.4
-80°	54.5	57.4	59.8	61.7	61.8	55.4	49.2	43.1	37.2	32.1	27.8
-82.5°	32.8	34.5	36.0	37.1	37.6	34.0	30.6	27.2	24.0	21.1	18.3
-85°	17.3	18.2	18.9	19.5	20.0	18.4	16.9	15.5	14.1	12.8	11.5
-87.5°	7.4	7.7	7.9	8.1	8.3	7.8	7.4	6.9	6.4	6.0	5.5
-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: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**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°	5.1	4.6	4.2	3.8	3.4	3.0	2.6	2.2	1.8	1.5	1.2
85°	10.3	9.3	8.3	7.4	6.6	6.0	5.2	4.4	3.7	3.0	2.4
82.5°	15.9	13.9	12.2	10.5	9.1	7.9	7.0	6.1	5.2	4.4	3.6
80°	23.8	20.1	16.9	14.1	11.7	9.8	8.6	7.5	6.5	5.5	4.5
77.5°	34.5	28.1	22.1	17.9	14.4	11.8	10.3	9.0	7.7	6.5	5.4
75°	47.7	39.2	31.7	24.7	18.4	13.7	12.1	10.5	8.9	7.5	6.2
72.5°	68.4	55.6	43.5	32.4	24.8	19.1	15.1	12.0	10.2	8.6	7.0
70°	90.1	73.9	59.2	45.9	33.5	24.5	19.8	15.5	11.5	9.6	7.9
67.5°	112.7	94.3	76.5	59.4	44.8	34.3	25.1	19.4	14.8	10.7	8.7
65°	140.3	117.2	94.0	75.1	57.2	44.4	34.0	24.3	18.0	13.3	9.5
62.5°	168.7	142.8	117.7	92.1	71.4	56.6	42.5	31.7	21.6	15.8	11.2
60°	198.5	170.9	141.9	114.2	88.8	69.3	53.5	38.8	27.7	18.2	13.2
57.5°	226.7	199.1	168.8	137.1	109.4	85.0	64.8	47.8	33.5	22.6	15.1
55°	254.8	227.2	195.8	162.4	130.7	102.7	77.4	57.7	39.7	27.2	16.8
52.5°	281.9	255.1	223.6	187.9	153.3	120.3	92.6	67.2	48.2	31.5	20.2
50°	307.6	282.3	251.0	213.6	175.3	139.9	106.8	79.5	56.3	36.5	23.6
47.5°	332.0	307.8	276.7	237.8	197.7	158.4	122.6	91.4	64.1	43.4	26.7
45°	353.0	332.1	299.2	259.9	218.9	177.3	138.4	102.5	74.0	49.9	29.6
42.5°	373.1	351.8	318.7	280.9	238.4	195.5	153.0	115.3	83.2	56.2	33.9
40°	390.1	366.8	336.2	298.3	256.7	212.5	168.3	127.6	91.6	62.5	39.0
37.5°	403.9	379.5	349.8	314.8	273.3	228.1	182.7	138.9	100.0	69.4	43.8
35°	412.0	390.6	363.2	328.7	287.7	242.7	195.8	149.9	109.3	75.7	48.2
32.5°	419.9	400.5	373.5	340.4	301.3	256.2	208.0	160.8	117.8	81.3	52.3
30°	426.2	407.6	383.2	351.5	313.2	267.6	219.1	170.6	125.4	86.3	56.2
27.5°	431.9	414.7	392.0	360.5	322.5	278.0	229.1	179.4	132.1	91.3	60.2
25°	437.0	420.2	398.0	368.4	331.2	287.5	238.0	187.0	138.7	96.6	63.6
22.5°	440.7	425.0	403.8	375.8	339.1	295.8	245.5	194.0	144.7	101.2	66.6
20°	444.3	429.7	409.2	382.2	345.4	301.8	251.9	199.9	149.7	105.0	69.0
17.5°	447.5	433.3	413.0	386.2	350.3	307.0	257.3	204.8	153.8	108.1	70.9
15°	449.8	435.8	416.1	389.6	354.6	311.2	261.6	208.5	156.9	110.4	72.4
12.5°	451.8	438.1	418.8	392.6	358.0	314.5	264.8	211.2	159.0	111.9	73.3
10°	453.6	439.9	421.0	394.8	360.6	316.7	266.9	212.7	160.2	112.8	73.7
7.5°	455.0	441.4	422.6	396.3	362.1	317.9	267.8	213.1	160.5	112.9	73.7
5°	456.1	442.3	423.5	396.9	362.6	317.9	267.5	212.5	159.8	112.3	73.3
2.5°	456.7	442.6	423.6	396.6	362.0	316.7	265.9	210.7	158.2	111.1	72.4
0°	456.8	442.4	422.9	395.4	360.2	314.3	263.1	207.9	155.8	109.3	71.2
-2.5°	456.7	442.6	423.6	396.6	362.0	316.7	265.9	210.7	158.2	111.1	72.4
-5°	456.1	442.3	423.5	396.9	362.6	317.9	267.5	212.5	159.8	112.3	73.3
-7.5°	455.0	441.4	422.6	396.3	362.1	317.9	267.8	213.1	160.5	112.9	73.7
-10°	453.6	439.9	421.0	394.8	360.6	316.7	266.9	212.7	160.2	112.8	73.7
-12.5°	451.8	438.1	418.8	392.6	358.0	314.5	264.8	211.2	159.0	111.9	73.3
-15°	449.8	435.8	416.1	389.6	354.6	311.2	261.6	208.5	156.9	110.4	72.4
-17.5°	447.5	433.3	413.0	386.2	350.3	307.0	257.3	204.8	153.8	108.1	70.9
-20°	444.3	429.7	409.2	382.2	345.4	301.8	251.9	199.9	149.7	105.0	69.0



REPORT NUMBER: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	440.7	425.0	403.8	375.8	339.1	295.8	245.5	194.0	144.7	101.2	66.6
-25°	437.0	420.2	398.0	368.4	331.2	287.5	238.0	187.0	138.7	96.6	63.6
-27.5°	431.9	414.7	392.0	360.5	322.5	278.0	229.1	179.4	132.1	91.3	60.2
-30°	426.2	407.6	383.2	351.5	313.2	267.6	219.1	170.6	125.4	86.3	56.2
-32.5°	419.9	400.5	373.5	340.4	301.3	256.2	208.0	160.8	117.8	81.3	52.3
-35°	412.0	390.6	363.2	328.7	287.7	242.7	195.8	149.9	109.3	75.7	48.2
-37.5°	403.9	379.5	349.8	314.8	273.3	228.1	182.7	138.9	100.0	69.4	43.8
-40°	390.1	366.8	336.2	298.3	256.7	212.5	168.3	127.6	91.6	62.5	39.0
-42.5°	373.1	351.8	318.7	280.9	238.4	195.5	153.0	115.3	83.2	56.2	33.9
-45°	353.0	332.1	299.2	259.9	218.9	177.3	138.4	102.5	74.0	49.9	29.6
-47.5°	332.0	307.8	276.7	237.8	197.7	158.4	122.6	91.4	64.1	43.4	26.7
-50°	307.6	282.3	251.0	213.6	175.3	139.9	106.8	79.5	56.3	36.5	23.6
-52.5°	281.9	255.1	223.6	187.9	153.3	120.3	92.6	67.2	48.2	31.5	20.2
-55°	254.8	227.2	195.8	162.4	130.7	102.7	77.4	57.7	39.7	27.2	16.8
-57.5°	226.7	199.1	168.8	137.1	109.4	85.0	64.8	47.8	33.5	22.6	15.1
-60°	198.5	170.9	141.9	114.2	88.8	69.3	53.5	38.8	27.7	18.2	13.2
-62.5°	168.7	142.8	117.7	92.1	71.4	56.6	42.5	31.7	21.6	15.8	11.2
-65°	140.3	117.2	94.0	75.1	57.2	44.4	34.0	24.3	18.0	13.3	9.5
-67.5°	112.7	94.3	76.5	59.4	44.8	34.3	25.1	19.4	14.8	10.7	8.7
-70°	90.1	73.9	59.2	45.9	33.5	24.5	19.8	15.5	11.5	9.6	7.9
-72.5°	68.4	55.6	43.5	32.4	24.8	19.1	15.1	12.0	10.2	8.6	7.0
-75°	47.7	39.2	31.7	24.7	18.4	13.7	12.1	10.5	8.9	7.5	6.2
-77.5°	34.5	28.1	22.1	17.9	14.4	11.8	10.3	9.0	7.7	6.5	5.4
-80°	23.8	20.1	16.9	14.1	11.7	9.8	8.6	7.5	6.5	5.5	4.5
-82.5°	15.9	13.9	12.2	10.5	9.1	7.9	7.0	6.1	5.2	4.4	3.6
-85°	10.3	9.3	8.3	7.4	6.6	6.0	5.2	4.4	3.7	3.0	2.4
-87.5°	5.1	4.6	4.2	3.8	3.4	3.0	2.6	2.2	1.8	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: P670569 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**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°	0.9	0.7	0.5	0.3	0.2	0.1	0.0
85°	1.9	1.4	1.0	0.6	0.3	0.1	0.0
82.5°	2.8	2.1	1.4	0.9	0.5	0.2	0.0
80°	3.6	2.7	1.9	1.2	0.7	0.3	0.0
77.5°	4.3	3.3	2.4	1.5	0.9	0.3	0.0
75°	4.9	3.8	2.8	1.8	1.0	0.4	0.0
72.5°	5.6	4.3	3.2	2.1	1.2	0.5	0.0
70°	6.2	4.8	3.5	2.4	1.3	0.5	0.0
67.5°	6.9	5.2	3.9	2.6	1.5	0.6	0.0
65°	7.6	5.7	4.2	2.8	1.6	0.7	0.0
62.5°	8.2	6.2	4.5	3.0	1.8	0.7	0.0
60°	8.9	6.7	4.8	3.2	1.9	0.8	0.0
57.5°	10.3	7.2	5.1	3.4	2.0	0.8	0.0
55°	11.7	7.7	5.5	3.6	2.1	0.9	0.0
52.5°	12.9	8.2	5.8	3.7	2.2	0.9	0.0
50°	14.1	9.1	6.1	3.9	2.3	1.0	0.0
47.5°	15.4	10.0	6.4	4.0	2.4	1.0	0.0
45°	17.9	10.8	6.7	4.2	2.5	1.0	0.0
42.5°	20.1	11.5	6.9	4.4	2.5	1.1	0.0
40°	22.1	12.1	7.3	4.6	2.6	1.1	0.0
37.5°	24.0	12.7	7.7	4.7	2.7	1.1	0.0
35°	25.5	13.7	8.1	4.9	2.7	1.2	0.0
32.5°	27.5	15.0	8.4	5.0	2.7	1.2	0.0
30°	30.7	16.0	8.7	5.1	2.8	1.2	0.0
27.5°	33.6	16.9	9.0	5.2	2.8	1.2	0.0
25°	36.2	17.7	9.1	5.2	2.8	1.2	0.0
22.5°	38.5	18.3	9.3	5.3	2.8	1.3	0.0
20°	40.4	18.7	9.3	5.3	2.8	1.3	0.0
17.5°	42.1	19.0	9.3	5.4	2.8	1.3	0.0
15°	43.4	19.2	9.3	5.4	2.8	1.3	0.0
12.5°	44.4	19.2	9.2	5.3	2.8	1.3	0.0
10°	45.1	19.1	9.1	5.3	2.8	1.3	0.0
7.5°	45.4	18.9	9.0	5.3	2.7	1.2	0.0
5°	45.4	18.6	8.8	5.2	2.7	1.2	0.0
2.5°	45.1	18.1	8.6	5.1	2.6	1.2	0.0
0°	44.5	17.6	8.4	5.0	2.6	1.2	0.0
-2.5°	45.1	18.1	8.6	5.1	2.6	1.2	0.0
-5°	45.4	18.6	8.8	5.2	2.7	1.2	0.0
-7.5°	45.4	18.9	9.0	5.3	2.7	1.2	0.0
-10°	45.1	19.1	9.1	5.3	2.8	1.3	0.0
-12.5°	44.4	19.2	9.2	5.3	2.8	1.3	0.0
-15°	43.4	19.2	9.3	5.4	2.8	1.3	0.0
-17.5°	42.1	19.0	9.3	5.4	2.8	1.3	0.0
-20°	40.4	18.7	9.3	5.3	2.8	1.3	0.0

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CATALOG NUMBER: GFLS15FSUNVDBZK-12W-3000K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	38.5	18.3	9.3	5.3	2.8	1.3	0.0
-25°	36.2	17.7	9.1	5.2	2.8	1.2	0.0
-27.5°	33.6	16.9	9.0	5.2	2.8	1.2	0.0
-30°	30.7	16.0	8.7	5.1	2.8	1.2	0.0
-32.5°	27.5	15.0	8.4	5.0	2.7	1.2	0.0
-35°	25.5	13.7	8.1	4.9	2.7	1.2	0.0
-37.5°	24.0	12.7	7.7	4.7	2.7	1.1	0.0
-40°	22.1	12.1	7.3	4.6	2.6	1.1	0.0
-42.5°	20.1	11.5	6.9	4.4	2.5	1.1	0.0
-45°	17.9	10.8	6.7	4.2	2.5	1.0	0.0
-47.5°	15.4	10.0	6.4	4.0	2.4	1.0	0.0
-50°	14.1	9.1	6.1	3.9	2.3	1.0	0.0
-52.5°	12.9	8.2	5.8	3.7	2.2	0.9	0.0
-55°	11.7	7.7	5.5	3.6	2.1	0.9	0.0
-57.5°	10.3	7.2	5.1	3.4	2.0	0.8	0.0
-60°	8.9	6.7	4.8	3.2	1.9	0.8	0.0
-62.5°	8.2	6.2	4.5	3.0	1.8	0.7	0.0
-65°	7.6	5.7	4.2	2.8	1.6	0.7	0.0
-67.5°	6.9	5.2	3.9	2.6	1.5	0.6	0.0
-70°	6.2	4.8	3.5	2.4	1.3	0.5	0.0
-72.5°	5.6	4.3	3.2	2.1	1.2	0.5	0.0
-75°	4.9	3.8	2.8	1.8	1.0	0.4	0.0
-77.5°	4.3	3.3	2.4	1.5	0.9	0.3	0.0
-80°	3.6	2.7	1.9	1.2	0.7	0.3	0.0
-82.5°	2.8	2.1	1.4	0.9	0.5	0.2	0.0
-85°	1.9	1.4	1.0	0.6	0.3	0.1	0.0
-87.5°	0.9	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)