

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: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ESF2ARGBFW-WiZ-4000K

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2300277A001)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ESF2ARGBWFW-WiZ-4000K  
Description: 2400LM FLOOD WHITE WITH  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2378.4 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 0.34' x H: 0.13')

Beam Angle (50%): 103.5°H x 102.9°V  
Beam Lumens: 1573.2 lumens  
Beam Efficiency: 66.1%

Field Angle (10%): 163.5°H x 159.6°V  
Field Lumens: 2331 lumens  
Field Efficiency: 98.0%

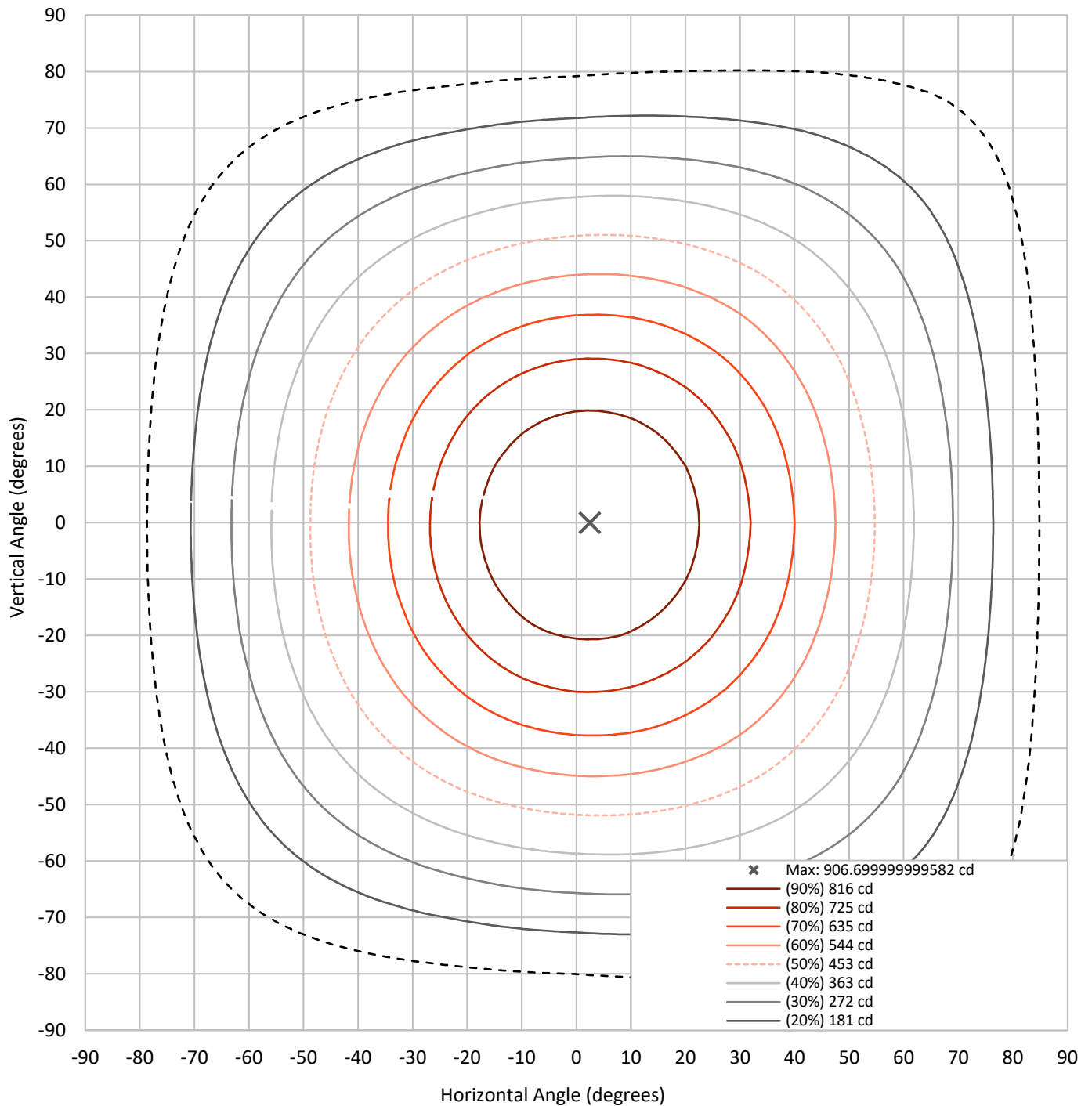
NEMA Type: 7H x 7V  
Max Intensity: 906.7 candela  
Max Intensity Angle: 2.5°H x 0°V

Input Watts (W): 28.4  
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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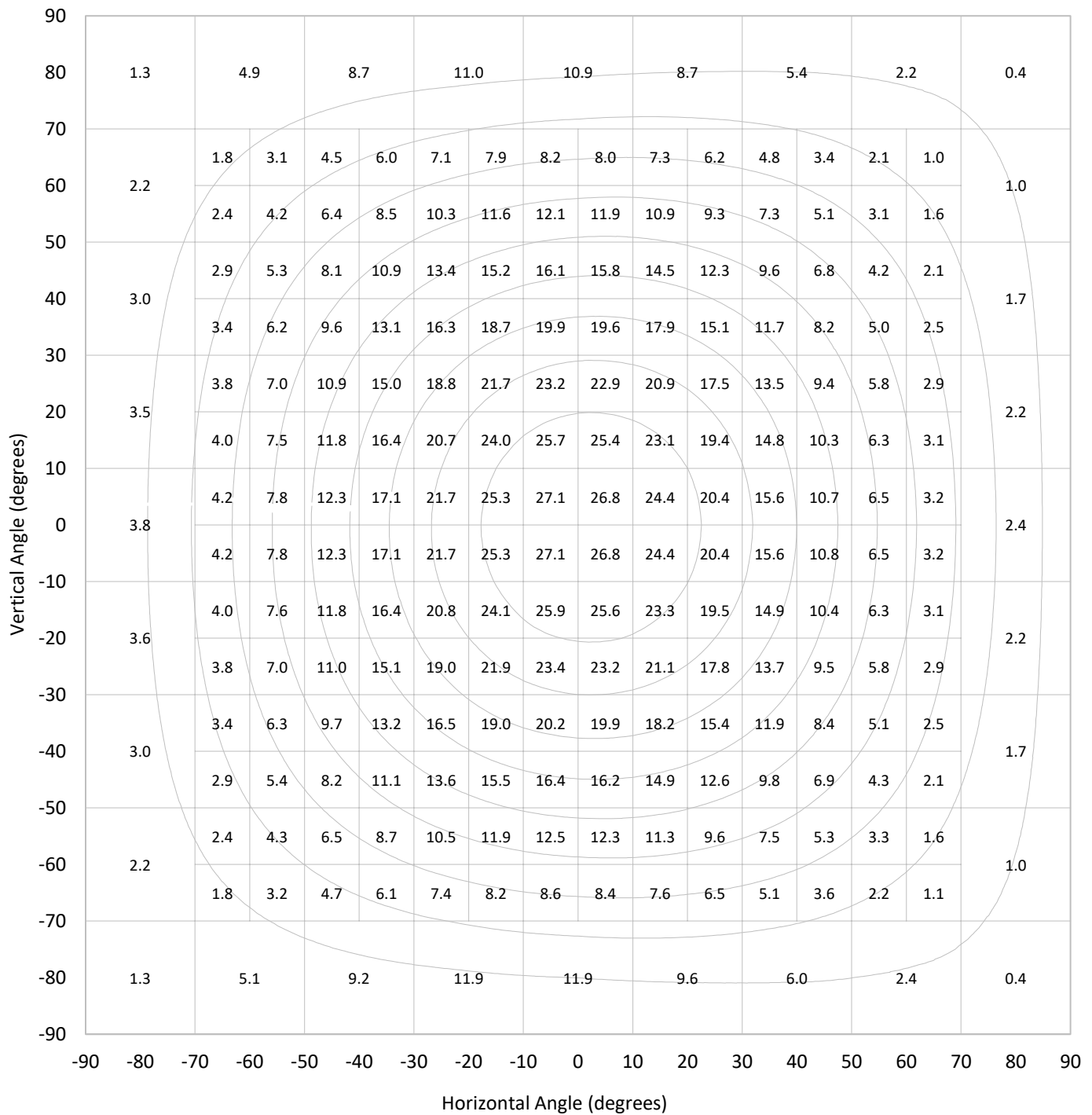
### Iso-Candela Plot





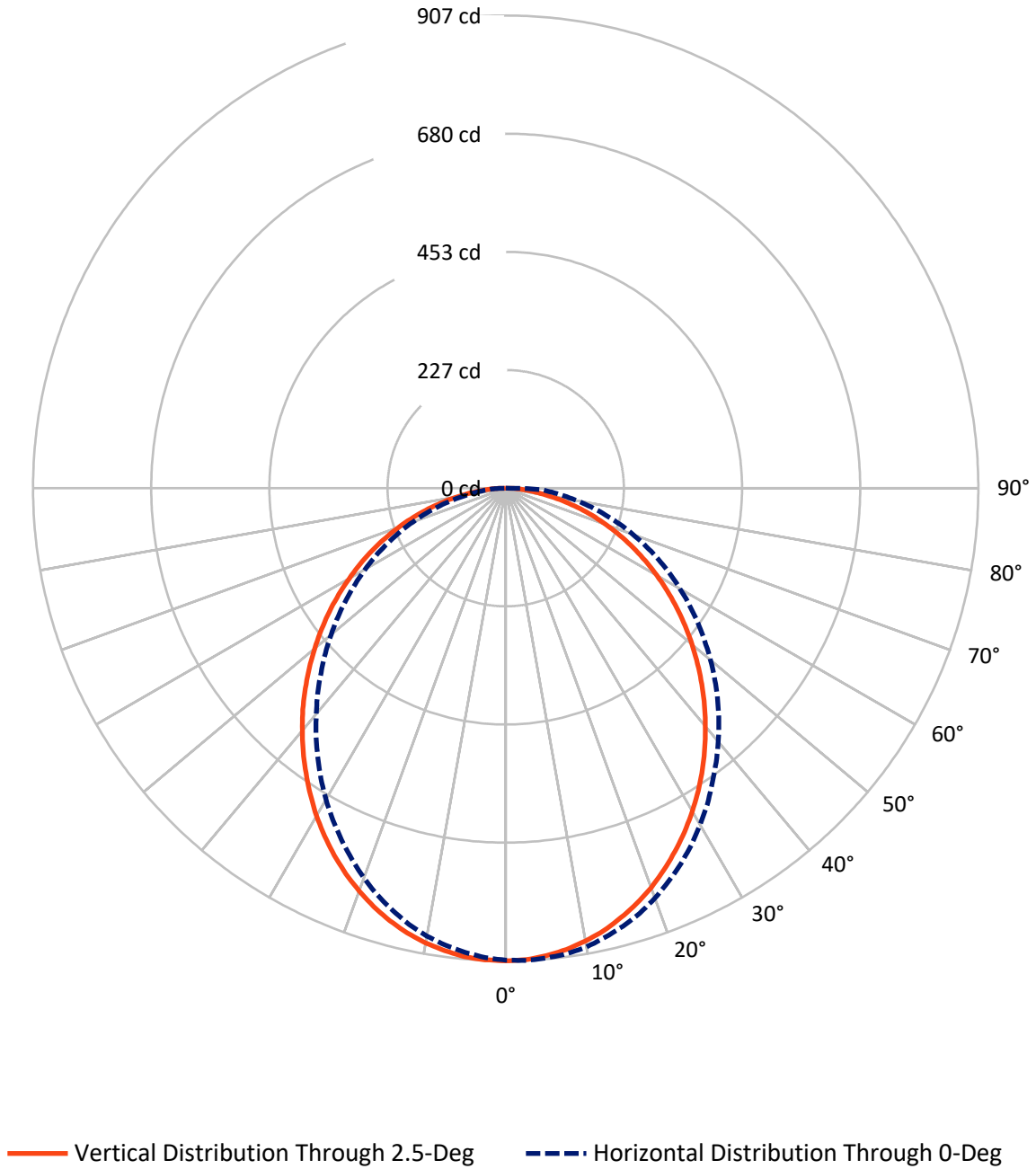
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### Lumen Table



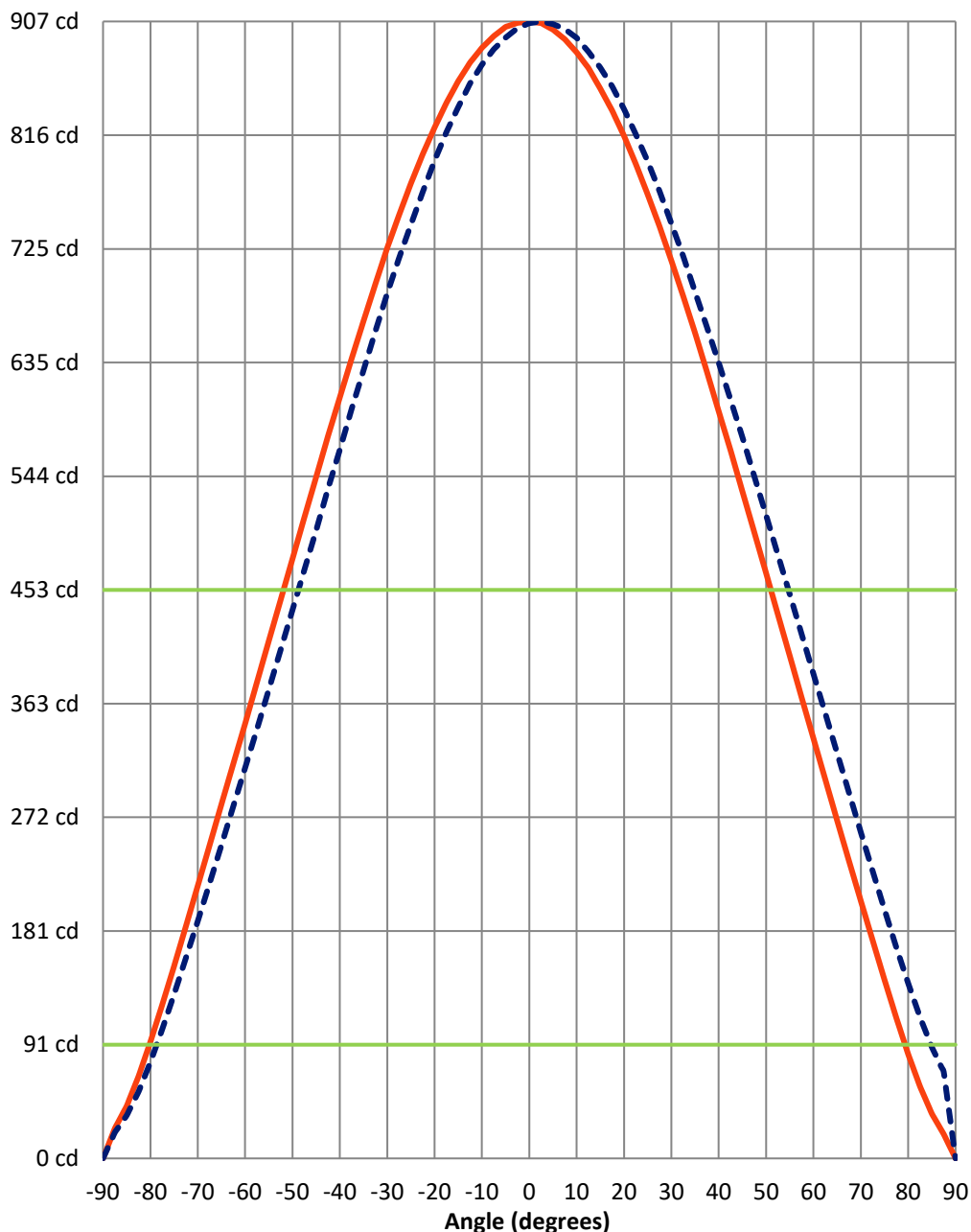
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 103.5°  
 V Angle: 102.9°  
 Lumens: 1573.2  
 Efficiency: 66.1%

**Field:**  
 H Angle: 163.5°  
 V Angle: 159.6°  
 Lumens: 2331  
 Efficiency: 98.0%

**Spill:**  
 Lumens: 47.4  
 Efficiency: 2.0%

— Vertical Distribution through 2.5-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	3.3	6.7	10.0	13.4	15.5	15.6	15.8	15.9	16.0	16.0
85°	0.0	6.7	13.4	15.6	15.9	16.2	16.6	16.9	17.3	17.7	18.1
82.5°	0.0	10.0	15.6	16.1	16.7	17.3	18.1	18.9	19.9	20.8	21.9
80°	0.0	13.3	15.9	16.7	17.7	18.9	20.2	21.6	23.4	25.1	27.0
77.5°	0.0	15.4	16.3	17.5	19.0	20.8	22.8	25.2	27.6	30.3	33.7
75°	0.0	15.6	16.7	18.4	20.5	23.0	25.9	29.0	32.8	37.2	41.7
72.5°	0.0	15.7	17.2	19.4	22.1	25.6	29.3	33.9	39.1	44.4	50.1
70°	0.0	15.9	17.8	20.6	24.1	28.3	33.3	39.3	45.5	52.1	59.1
67.5°	0.0	16.0	18.4	21.8	26.2	31.4	37.9	44.9	52.3	60.2	68.3
65°	0.0	16.2	19.1	23.1	28.4	34.9	42.5	50.6	59.3	68.5	78.2
62.5°	0.0	16.5	19.8	24.6	30.7	38.6	47.1	56.5	66.6	77.1	88.4
60°	0.0	16.7	20.5	26.1	33.2	42.3	51.9	62.7	73.9	86.2	98.5
57.5°	0.0	16.9	21.2	27.6	35.9	45.9	56.8	68.8	81.7	95.1	108.6
55°	0.0	17.1	22.0	29.2	38.7	49.6	61.8	75.0	89.3	103.9	118.9
52.5°	0.0	17.3	22.7	30.8	41.4	53.2	66.8	81.5	96.9	112.6	129.0
50°	0.0	17.6	23.6	32.5	44.1	57.0	71.7	87.7	104.3	121.4	139.0
47.5°	0.0	17.8	24.4	34.1	46.7	60.8	76.6	93.9	111.5	130.0	148.5
45°	0.0	18.1	25.2	35.8	49.2	64.5	81.7	99.9	118.8	138.3	158.0
42.5°	0.0	18.3	26.0	37.5	51.6	68.1	86.4	105.7	125.7	146.2	167.1
40°	0.0	18.6	26.8	39.2	54.1	71.6	91.0	111.3	132.5	154.0	175.6
37.5°	0.0	18.8	27.5	40.7	56.5	75.0	95.5	116.7	139.0	161.5	184.1
35°	0.0	19.0	28.3	42.3	58.9	78.4	99.7	122.0	145.0	168.5	192.0
32.5°	0.0	19.2	29.1	43.7	61.2	81.6	103.7	126.9	150.8	175.0	199.6
30°	0.0	19.4	29.8	45.1	63.3	84.6	107.5	131.6	156.4	181.3	206.8
27.5°	0.0	19.6	30.4	46.3	65.3	87.3	111.0	135.9	161.5	187.2	213.3
25°	0.0	19.8	31.1	47.5	67.2	89.9	114.2	139.9	166.1	192.5	219.6
22.5°	0.0	20.0	31.6	48.6	68.9	92.3	117.3	143.6	170.3	197.5	225.1
20°	0.0	20.1	32.2	49.5	70.5	94.5	120.1	146.8	174.1	202.0	230.0
17.5°	0.0	20.2	32.6	50.4	71.9	96.5	122.5	149.8	177.6	206.0	234.6
15°	0.0	20.4	33.1	51.1	73.1	98.2	124.6	152.4	180.6	209.5	238.6
12.5°	0.0	20.5	33.4	51.7	74.2	99.6	126.5	154.7	183.1	212.5	242.0
10°	0.0	20.5	33.7	52.2	75.1	100.8	128.0	156.6	185.3	215.0	244.8
7.5°	0.0	20.6	34.0	52.6	75.8	101.8	129.2	158.0	187.0	216.9	247.0
5°	0.0	20.7	34.1	52.9	76.3	102.4	130.1	159.0	188.2	218.3	248.6
2.5°	0.0	20.7	34.2	53.1	76.6	102.8	130.6	159.7	188.9	219.1	249.5
0°	0.0	20.7	34.3	53.2	76.7	103.0	130.8	159.9	189.2	219.4	249.8
-2.5°	0.0	20.7	34.3	53.2	76.7	103.0	130.7	159.8	189.1	219.4	249.8
-5°	0.0	20.7	34.2	53.1	76.4	102.6	130.3	159.4	188.6	218.8	249.1
-7.5°	0.0	20.6	34.1	52.8	76.0	102.1	129.6	158.5	187.5	217.6	247.8
-10°	0.0	20.6	33.9	52.5	75.4	101.3	128.5	157.2	186.0	215.9	245.8
-12.5°	0.0	20.5	33.6	52.0	74.6	100.2	127.1	155.5	184.0	213.7	243.2
-15°	0.0	20.4	33.3	51.4	73.7	98.9	125.4	153.3	181.7	210.9	240.0
-17.5°	0.0	20.3	32.9	50.8	72.5	97.3	123.4	150.8	179.0	207.5	236.2
-20°	0.0	20.2	32.5	50.0	71.2	95.4	121.1	147.9	175.7	203.6	232.0

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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	20.0	32.0	49.1	69.7	93.3	118.5	144.9	171.9	199.3	227.4
-25°	0.0	19.9	31.4	48.1	68.0	91.0	115.6	141.4	167.8	194.6	222.1
-27.5°	0.0	19.7	30.8	46.9	66.2	88.4	112.4	137.6	163.4	189.4	216.2
-30°	0.0	19.5	30.2	45.7	64.3	85.8	109.1	133.4	158.4	183.7	209.6
-32.5°	0.0	19.3	29.5	44.4	62.2	83.0	105.4	128.8	152.9	177.7	202.5
-35°	0.0	19.1	28.7	43.0	59.9	79.9	101.5	124.0	147.2	171.2	195.1
-37.5°	0.0	18.9	28.0	41.5	57.6	76.6	97.4	118.9	141.4	164.3	187.3
-40°	0.0	18.7	27.2	40.0	55.2	73.3	92.9	113.6	135.1	156.9	179.3
-42.5°	0.0	18.4	26.4	38.4	52.8	69.8	88.3	108.1	128.4	149.1	170.6
-45°	0.0	18.2	25.6	36.8	50.4	66.2	83.8	102.4	121.6	141.5	161.6
-47.5°	0.0	18.0	24.8	35.1	48.0	62.5	78.9	96.5	114.6	133.4	151.9
-50°	0.0	17.7	24.0	33.5	45.4	58.6	74.1	90.3	107.4	124.9	142.8
-52.5°	0.0	17.4	23.2	31.8	42.8	54.9	69.1	84.3	100.2	116.3	133.1
-55°	0.0	17.2	22.4	30.2	40.1	51.3	64.1	78.0	92.6	107.6	123.0
-57.5°	0.0	17.0	21.6	28.4	37.4	47.8	59.0	71.7	85.1	99.0	112.9
-60°	0.0	16.7	20.8	26.9	34.8	44.1	54.1	65.5	77.5	90.0	103.0
-62.5°	0.0	16.5	20.2	25.3	32.3	40.5	49.5	59.2	70.1	81.3	92.7
-65°	0.0	16.3	19.4	23.9	29.8	36.9	44.9	53.2	62.7	72.6	82.8
-67.5°	0.0	16.1	18.8	22.5	27.4	33.4	40.4	47.7	55.4	64.0	72.9
-70°	0.0	15.9	18.1	21.2	25.2	30.1	35.8	42.2	48.7	55.7	63.2
-72.5°	0.0	15.7	17.4	20.0	23.2	27.1	31.7	36.8	42.4	48.1	54.0
-75°	0.0	15.6	16.9	18.9	21.4	24.4	27.8	31.8	36.2	41.0	45.7
-77.5°	0.0	15.4	16.4	17.9	19.8	22.0	24.5	27.3	30.6	34.1	37.8
-80°	0.0	13.3	16.0	17.0	18.3	19.9	21.6	23.5	25.6	28.0	30.5
-82.5°	0.0	10.0	15.6	16.2	17.0	18.0	19.1	20.4	21.7	23.2	24.6
-85°	0.0	6.7	13.4	15.6	16.1	16.6	17.1	17.7	18.5	19.3	20.0
-87.5°	0.0	3.3	6.7	10.0	13.4	15.5	15.7	16.0	16.2	16.5	16.6
-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: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ESF2ARGBFWF-WIZ-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°	15.9	15.8	15.7	15.6	15.6	15.6	15.6	15.7	15.5	15.4	15.2
85°	18.5	18.9	19.4	20.0	20.5	21.1	21.8	22.4	22.9	23.4	23.9
82.5°	23.1	24.3	25.6	26.9	28.3	30.0	31.8	33.7	35.3	36.7	38.1
80°	29.0	31.5	34.4	37.1	39.7	42.5	45.1	47.8	50.2	52.6	55.0
77.5°	37.4	41.1	44.8	48.5	52.3	56.2	60.0	63.7	67.1	70.5	73.7
75°	46.3	51.2	56.1	61.2	66.1	71.0	75.9	80.7	85.6	90.0	94.4
72.5°	56.0	62.2	68.3	74.5	80.8	87.1	93.2	98.9	104.6	110.3	115.8
70°	66.3	73.6	81.3	88.9	96.4	103.6	110.6	117.7	124.6	131.7	138.5
67.5°	77.0	86.0	94.8	103.5	112.0	120.6	129.2	137.4	145.4	153.7	161.8
65°	88.4	98.4	108.4	118.5	128.5	138.4	147.9	157.6	167.0	176.5	185.5
62.5°	99.7	110.9	122.4	133.8	145.0	156.1	167.3	178.1	188.3	198.9	209.0
60°	111.0	123.8	136.5	149.0	161.7	174.2	186.3	198.3	210.0	221.6	232.7
57.5°	122.6	136.7	150.4	164.6	178.3	191.8	205.3	218.6	231.4	244.0	256.3
55°	134.1	149.2	164.6	179.6	194.5	209.5	224.3	238.5	252.7	265.9	279.3
52.5°	145.3	161.8	178.1	194.4	210.7	226.9	242.8	258.3	273.2	288.0	301.7
50°	156.4	173.9	191.5	209.1	226.6	244.0	260.9	277.5	293.5	308.9	324.1
47.5°	167.3	185.9	204.6	223.5	242.1	260.5	278.6	296.1	313.3	330.0	345.8
45°	177.5	197.4	217.4	237.2	257.1	276.6	295.6	314.5	332.8	350.2	367.7
42.5°	187.8	208.7	229.6	250.8	271.5	292.2	312.5	332.4	351.4	370.6	388.6
40°	197.5	219.7	241.6	263.7	285.8	307.2	328.7	349.3	370.0	389.8	409.7
37.5°	207.0	229.8	253.1	276.0	299.0	321.8	343.9	366.2	387.6	409.2	429.2
35°	215.9	239.9	264.0	288.2	312.1	335.6	359.0	382.1	405.0	426.8	448.5
32.5°	224.4	249.5	274.3	299.2	324.2	348.6	373.2	397.4	421.0	444.2	467.1
30°	232.2	258.2	284.3	310.0	335.7	361.2	386.7	412.1	436.3	460.6	484.6
27.5°	239.8	266.4	293.2	320.0	346.2	372.9	399.4	425.0	450.4	476.1	501.4
25°	246.8	274.1	301.6	329.2	356.5	383.8	411.3	437.6	464.3	490.8	517.0
22.5°	253.1	281.3	309.3	337.5	365.6	393.8	421.6	448.8	476.6	504.3	531.5
20°	258.7	287.8	316.4	344.8	374.0	403.1	431.2	459.8	488.4	516.6	544.7
17.5°	263.7	293.3	322.6	351.7	381.3	411.2	440.1	469.5	498.8	527.9	556.6
15°	268.1	298.1	328.1	357.7	387.9	418.0	447.7	477.7	508.0	538.0	566.8
12.5°	272.0	302.1	332.6	362.7	393.4	423.9	454.5	485.1	515.7	546.4	576.3
10°	275.2	305.3	336.2	366.8	397.9	428.8	460.0	491.0	522.2	553.2	584.0
7.5°	277.7	308.1	339.0	370.0	401.5	432.7	464.3	495.4	527.4	558.5	590.1
5°	279.4	310.0	340.9	372.3	403.9	435.4	467.2	498.6	531.2	562.3	594.5
2.5°	280.5	311.2	342.0	373.6	405.3	437.0	468.9	500.5	533.5	564.6	597.1
0°	280.8	311.5	342.3	373.9	405.6	437.4	469.3	500.9	534.1	565.2	597.8
-2.5°	280.7	311.5	342.3	373.9	405.6	437.5	469.4	501.0	534.0	565.3	597.8
-5°	279.9	310.6	341.6	372.9	404.6	436.3	468.3	499.7	532.3	563.7	596.1
-7.5°	278.4	309.0	339.9	371.0	402.4	434.0	466.0	496.9	529.2	560.4	592.5
-10°	276.2	306.5	337.4	368.2	399.2	430.6	462.2	493.0	524.6	555.6	586.9
-12.5°	273.2	303.6	334.1	364.4	395.0	426.0	457.2	487.6	518.8	549.0	579.9
-15°	269.6	300.0	329.8	359.7	389.8	420.6	451.0	481.1	511.6	541.0	571.4
-17.5°	265.5	295.5	324.8	354.1	383.6	413.9	443.6	473.6	502.6	532.1	561.1
-20°	260.9	289.9	319.0	347.6	376.8	405.8	435.1	464.4	492.6	521.7	549.2

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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°	255.6	283.7	312.1	340.4	368.8	397.0	425.6	454.0	482.0	509.9	537.2
-25°	249.5	276.9	304.9	332.4	359.9	387.3	415.2	442.6	470.4	496.6	523.8
-27.5°	242.6	269.4	296.9	323.7	350.2	377.0	403.4	430.4	457.0	483.1	508.4
-30°	235.3	261.7	287.6	314.0	339.7	365.6	391.2	417.5	442.8	467.9	492.3
-32.5°	228.0	253.2	278.1	303.8	328.7	353.6	378.7	403.1	427.9	451.9	475.5
-35°	219.7	243.6	268.1	292.3	316.9	340.7	364.6	388.4	411.9	434.8	457.3
-37.5°	210.7	234.1	257.7	280.6	304.5	327.5	350.1	372.8	395.0	417.2	438.3
-40°	201.4	224.2	246.2	268.6	290.9	313.3	335.0	356.3	377.8	398.4	418.9
-42.5°	191.8	213.3	234.7	256.3	277.0	298.4	319.3	339.4	359.3	379.2	398.3
-45°	181.9	202.0	222.8	242.6	263.1	282.8	302.8	322.2	340.7	359.0	377.2
-47.5°	171.5	190.6	209.9	229.5	248.2	267.0	285.5	303.9	321.9	338.9	355.6
-50°	160.7	179.0	196.9	215.2	233.3	250.8	268.1	285.1	301.9	318.5	333.8
-52.5°	149.5	166.8	183.8	200.5	217.5	234.2	250.3	266.1	281.5	297.0	311.5
-55°	138.8	154.1	170.2	185.9	201.3	216.9	232.1	246.9	261.5	275.0	288.8
-57.5°	127.3	141.9	156.2	170.9	185.3	199.3	213.4	227.1	240.6	253.5	265.9
-60°	115.9	129.1	142.5	155.5	169.0	181.9	194.5	206.9	219.4	231.0	242.8
-62.5°	104.6	116.4	128.4	140.5	152.2	164.2	175.7	186.9	197.8	208.5	219.1
-65°	93.1	103.9	114.4	125.1	135.8	146.3	156.7	167.0	176.8	186.2	195.5
-67.5°	82.0	91.1	100.7	109.9	119.2	128.6	137.7	146.6	155.6	164.0	172.1
-70°	71.0	78.9	87.0	95.0	103.2	111.0	118.9	126.7	134.3	141.5	148.6
-72.5°	60.3	67.0	73.7	80.4	87.3	93.9	100.7	107.2	113.5	119.6	125.7
-75°	50.4	55.6	60.8	66.4	71.9	77.3	82.8	88.2	93.3	98.5	103.4
-77.5°	41.6	45.4	49.2	53.2	57.4	61.5	65.7	70.0	74.1	78.0	81.8
-80°	33.2	35.9	38.9	41.8	44.6	47.3	50.2	53.2	56.1	58.9	61.5
-82.5°	26.0	27.7	29.5	31.3	33.2	35.1	37.0	38.9	40.6	42.2	43.7
-85°	20.6	21.3	22.2	23.0	23.9	24.8	25.7	26.6	27.5	28.2	29.0
-87.5°	16.7	16.9	17.0	17.1	17.3	17.5	17.7	18.0	18.0	18.1	18.1
-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: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ESF2ARGBFWF-WiZ-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°	15.1	15.0	14.8	14.7	14.6	14.4	14.9	15.3	15.7	16.1	16.4
85°	24.4	24.9	25.4	25.9	26.3	26.8	27.8	28.8	29.7	30.6	31.4
82.5°	39.5	40.8	42.0	43.1	44.2	45.2	46.7	48.2	49.5	50.8	52.0
80°	57.2	59.3	61.2	63.1	64.8	66.4	68.6	70.8	72.8	74.7	76.3
77.5°	76.9	80.0	83.0	85.8	88.4	90.8	93.8	96.7	99.3	101.8	104.0
75°	98.6	102.7	106.6	110.4	114.0	117.2	120.8	124.5	127.8	130.8	133.4
72.5°	121.3	126.6	131.7	136.4	140.9	145.0	149.4	153.6	157.4	160.9	163.9
70°	145.1	151.4	157.5	163.2	168.7	173.7	178.6	183.5	187.7	191.6	194.9
67.5°	169.7	177.1	184.1	190.4	196.6	202.3	207.7	213.0	217.8	222.1	225.9
65°	194.1	202.5	210.3	217.8	224.9	231.0	236.9	242.9	248.3	253.2	257.3
62.5°	218.9	228.2	236.8	245.1	252.8	259.9	266.4	272.8	278.7	284.1	288.7
60°	243.5	253.8	263.3	272.2	280.7	288.4	295.7	302.8	309.4	315.2	320.3
57.5°	267.7	278.9	289.5	299.3	308.5	317.1	325.0	332.9	340.0	346.4	352.0
55°	292.0	303.8	315.2	326.2	336.4	345.7	354.5	363.1	370.9	377.9	384.1
52.5°	315.3	328.5	341.0	352.8	364.1	374.6	384.3	393.2	401.6	409.4	416.0
50°	338.8	352.8	366.5	379.6	391.6	403.0	413.6	423.0	432.2	440.4	447.6
47.5°	361.6	377.2	391.6	405.7	418.9	431.0	442.4	453.1	462.9	471.8	479.6
45°	384.2	400.6	416.6	431.4	445.8	459.1	471.6	483.2	493.7	503.0	511.1
42.5°	406.6	423.9	440.9	457.0	472.3	486.8	500.1	512.3	523.5	533.0	542.1
40°	428.1	446.7	464.6	481.7	498.2	513.6	527.5	541.0	552.9	563.9	573.2
37.5°	449.4	468.6	487.4	505.9	523.2	540.0	555.3	569.7	582.1	593.4	603.2
35°	469.7	490.1	509.8	529.7	547.9	565.8	582.0	596.9	610.3	622.2	632.9
32.5°	489.3	511.0	532.1	551.9	572.0	590.2	607.7	623.6	638.1	650.6	661.6
30°	508.1	531.1	552.9	574.1	594.4	614.4	632.6	649.2	664.4	677.1	688.7
27.5°	526.0	549.8	573.0	595.1	616.6	636.8	655.8	673.3	689.4	703.0	714.9
25°	542.6	567.5	591.6	615.2	636.9	658.0	678.2	697.0	713.1	727.7	739.9
22.5°	558.1	583.9	609.3	633.3	656.5	678.4	699.6	718.0	735.1	750.2	763.4
20°	571.9	599.1	625.0	650.2	674.2	697.5	717.8	737.4	755.6	771.5	784.7
17.5°	584.7	612.5	639.3	665.1	690.5	713.5	735.1	755.6	773.7	789.7	804.1
15°	596.2	624.1	652.0	678.5	703.9	728.0	750.6	771.4	789.5	806.7	821.4
12.5°	605.9	634.7	662.7	689.7	715.9	740.0	763.9	784.8	804.2	821.3	835.6
10°	614.1	643.8	672.2	699.6	725.8	750.5	774.6	796.4	816.5	833.2	847.8
7.5°	620.5	650.6	679.7	707.5	734.1	759.7	783.3	805.2	825.3	842.7	857.5
5°	625.1	655.6	685.1	713.5	739.9	766.2	790.1	812.7	832.3	849.2	865.0
2.5°	627.7	658.6	688.6	716.9	743.6	769.7	794.3	816.9	836.8	854.8	870.1
0°	628.5	659.6	689.8	718.0	744.7	770.7	795.7	818.4	838.4	857.3	872.2
-2.5°	628.4	659.3	689.3	717.8	744.7	770.7	795.1	817.5	837.8	856.6	870.9
-5°	626.3	656.9	686.5	715.4	742.4	768.1	791.9	814.0	834.0	852.7	866.9
-7.5°	622.3	652.5	681.8	710.4	737.4	763.0	786.0	807.8	827.5	845.9	861.4
-10°	616.6	646.4	675.3	703.0	730.0	755.3	778.6	799.7	819.2	836.7	851.7
-12.5°	609.8	638.5	666.5	693.6	720.5	745.5	768.5	789.0	808.2	825.0	840.4
-15°	601.0	627.8	656.0	682.9	709.3	733.4	756.0	776.4	794.5	811.7	826.8
-17.5°	590.0	617.4	644.7	670.5	695.5	719.6	741.2	761.5	779.6	796.0	810.4
-20°	577.9	605.4	630.7	656.0	680.5	703.6	724.8	744.3	762.6	778.5	792.2

Classified

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

Scaled Data Report



REPORT NUMBER: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: ESF2ARGBFW-WiZ-4000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	564.3	590.6	616.1	640.7	663.2	685.6	706.6	725.8	743.2	759.0	772.1
-25°	549.2	574.8	599.4	622.9	645.5	665.8	686.6	705.2	722.4	737.1	750.1
-27.5°	533.9	557.8	581.0	603.7	625.4	646.3	665.0	683.0	699.2	713.7	725.6
-30°	516.5	540.1	562.2	583.1	604.1	624.0	642.8	659.8	674.9	688.8	700.3
-32.5°	498.0	520.6	542.4	562.6	581.8	600.7	618.4	634.7	649.5	662.6	673.0
-35°	479.2	500.0	520.6	540.8	559.2	576.7	593.0	608.4	622.3	634.5	644.7
-37.5°	459.2	479.1	498.6	517.2	535.1	552.0	567.3	581.4	594.3	605.8	615.3
-40°	438.4	457.4	475.6	493.4	509.7	526.0	540.4	553.8	566.0	576.5	585.2
-42.5°	417.2	435.0	452.2	468.7	484.3	499.1	512.6	525.6	537.0	546.5	554.9
-45°	395.0	411.8	428.2	443.3	458.0	471.7	484.5	496.2	506.7	515.9	523.9
-47.5°	371.8	388.2	403.2	417.7	431.3	443.8	455.7	466.5	476.3	485.1	492.5
-50°	349.1	363.5	377.6	391.4	403.9	415.7	426.5	436.6	445.6	453.6	460.5
-52.5°	326.0	339.2	352.3	364.5	376.1	387.0	397.3	406.5	414.7	422.4	428.7
-55°	301.9	314.4	326.8	337.9	348.4	358.4	367.7	376.2	383.9	390.8	396.8
-57.5°	277.7	289.4	300.3	310.5	320.5	330.0	338.3	345.9	352.9	359.3	364.9
-60°	253.7	264.3	274.1	283.7	292.6	300.7	307.8	315.2	321.9	327.9	333.2
-62.5°	229.0	238.7	247.8	256.3	264.4	271.9	278.9	285.6	291.8	297.0	301.7
-65°	204.2	212.8	221.1	228.7	235.9	242.9	249.0	255.0	260.6	265.6	270.0
-67.5°	179.8	187.2	194.5	201.2	207.5	213.5	219.2	224.7	229.7	234.2	238.1
-70°	155.4	162.0	168.2	174.0	179.3	184.3	189.4	194.5	199.0	203.1	206.6
-72.5°	131.4	136.9	142.1	147.0	151.6	155.9	160.3	164.6	168.5	172.1	175.2
-75°	108.0	112.5	116.7	120.9	124.8	128.3	132.0	135.6	138.9	141.8	144.5
-77.5°	85.6	89.2	92.5	95.6	98.7	101.4	104.5	107.4	110.1	112.6	114.8
-80°	64.2	66.8	69.3	71.6	73.8	75.9	78.4	80.7	82.8	84.7	86.4
-82.5°	45.2	46.7	48.1	49.6	51.0	52.3	54.0	55.7	57.3	58.7	60.0
-85°	29.7	30.5	31.2	31.8	32.4	33.0	34.1	35.1	36.0	36.9	37.6
-87.5°	18.2	18.2	18.3	18.3	18.3	18.3	18.8	19.3	19.8	20.3	20.7
-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: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ESF2ARGBFWF-WIZ-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°	16.8	17.1	17.4	17.7	19.3	21.0	22.5	24.1	25.7	27.2	28.7
85°	32.1	32.7	33.3	33.8	35.6	37.4	39.0	40.6	42.1	43.6	44.9
82.5°	53.0	53.9	54.7	55.4	57.4	59.2	60.9	62.4	63.8	65.0	66.2
80°	77.8	79.1	80.2	81.1	83.1	85.0	86.6	88.0	89.2	90.1	90.9
77.5°	105.9	107.6	108.9	110.0	112.0	113.7	115.2	116.3	117.2	117.8	118.1
75°	135.7	137.6	139.2	140.4	142.4	144.1	145.4	146.3	146.9	147.2	147.0
72.5°	166.5	168.7	170.5	171.9	173.8	175.4	176.5	177.2	177.5	177.4	176.8
70°	197.7	200.1	202.0	203.4	205.4	206.9	207.8	208.3	208.3	207.7	206.7
67.5°	229.1	231.7	233.7	235.2	237.2	238.6	239.5	239.7	239.3	238.5	237.1
65°	260.8	263.6	265.8	267.4	269.5	270.9	271.7	271.8	271.1	269.8	267.8
62.5°	292.7	295.9	298.4	300.2	302.2	303.4	303.9	303.7	302.8	301.2	298.9
60°	324.7	328.2	331.0	332.9	334.9	336.0	336.4	336.0	334.8	332.8	330.1
57.5°	356.7	360.6	363.5	365.6	367.5	368.6	368.7	368.0	366.3	363.8	360.4
55°	389.2	393.4	396.7	398.9	400.8	401.6	401.4	400.3	398.3	395.4	391.6
52.5°	421.5	426.0	429.5	431.8	433.6	434.3	434.0	432.6	430.0	426.3	422.0
50°	453.8	458.7	462.4	464.9	466.7	467.3	466.7	464.7	461.6	457.7	452.6
47.5°	486.1	491.3	495.1	497.6	499.4	499.9	499.1	497.1	493.8	489.3	483.6
45°	517.9	523.3	527.3	530.0	531.9	532.3	531.4	528.9	525.2	520.0	513.6
42.5°	549.6	555.6	560.0	562.9	564.6	564.8	563.5	560.5	555.8	550.6	543.9
40°	580.9	586.8	591.1	593.9	595.7	595.9	594.4	591.2	586.7	580.5	572.9
37.5°	611.2	617.8	622.7	625.8	627.4	627.1	625.2	621.8	616.6	610.0	601.3
35°	641.8	648.7	653.7	656.9	658.3	657.9	655.8	651.7	645.8	638.4	629.3
32.5°	670.6	677.7	682.8	686.1	687.6	687.1	684.7	680.3	674.2	666.3	656.3
30°	698.1	705.4	711.0	714.4	715.9	715.2	712.6	708.1	701.5	692.8	682.5
27.5°	725.0	733.2	738.7	742.0	743.3	742.4	739.1	734.4	727.6	718.0	707.2
25°	750.2	758.4	763.9	767.1	768.7	768.1	764.8	759.2	751.5	742.0	730.6
22.5°	774.4	782.5	788.2	791.6	792.9	792.2	788.5	782.7	775.0	764.7	752.5
20°	795.6	804.4	810.5	814.1	815.4	814.2	810.4	804.1	796.6	785.7	772.9
17.5°	815.5	824.7	831.0	834.5	835.6	834.1	830.4	824.3	815.6	805.1	791.5
15°	832.8	841.9	848.3	851.9	853.1	851.7	847.8	841.7	832.8	821.7	807.8
12.5°	847.7	856.8	864.0	868.5	869.5	867.4	862.9	857.0	848.0	835.5	821.3
10°	859.7	870.0	877.1	880.8	882.0	881.1	876.6	869.5	859.9	847.5	832.6
7.5°	870.0	880.1	887.6	891.1	892.5	890.9	887.8	879.6	869.6	857.0	842.0
5°	877.5	887.5	895.1	898.2	900.2	899.3	894.6	887.8	876.6	863.8	848.3
2.5°	882.9	892.1	899.8	903.7	905.4	904.1	898.9	891.9	880.9	868.0	852.8
0°	884.5	893.8	901.4	905.3	906.7	904.6	900.7	893.6	882.5	869.8	854.9
-2.5°	883.6	893.6	901.5	904.6	905.6	903.5	898.5	891.4	881.4	868.6	853.4
-5°	879.9	890.3	897.4	899.7	902.3	900.3	894.9	887.7	877.9	865.0	849.4
-7.5°	873.7	883.8	890.5	893.0	895.0	893.6	889.0	881.3	871.1	858.4	843.2
-10°	864.8	875.1	881.5	884.7	885.7	884.1	879.7	872.2	862.0	849.1	834.2
-12.5°	853.5	863.4	869.4	872.5	873.9	873.1	868.3	860.4	849.9	837.4	823.1
-15°	839.6	848.4	854.2	857.3	859.1	857.9	853.4	845.8	835.7	823.9	809.9
-17.5°	822.8	831.4	837.2	840.5	841.7	840.5	836.6	829.2	819.8	808.3	794.9
-20°	803.9	811.9	817.4	820.7	822.1	821.0	817.5	810.8	801.2	790.3	777.4

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Scaled Data Report



REPORT NUMBER: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: ESF2ARGBFWF-WiZ-4000K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	782.7	790.5	796.4	799.8	800.8	799.5	795.5	789.1	780.8	770.3	757.5
-25°	760.2	768.2	773.4	776.5	777.5	776.2	772.7	766.8	758.4	748.5	736.5
-27.5°	735.4	742.9	748.3	751.4	752.3	751.0	747.9	742.4	734.9	725.2	713.4
-30°	709.1	716.6	721.9	725.2	726.1	724.8	721.5	716.3	709.1	700.0	689.4
-32.5°	681.7	688.5	693.3	696.2	697.3	696.4	693.6	689.1	682.9	674.0	663.8
-35°	653.0	659.4	663.9	666.6	667.8	667.3	664.9	660.8	654.9	646.9	637.1
-37.5°	623.2	629.4	633.9	636.7	637.9	637.4	635.2	631.4	625.9	618.7	609.5
-40°	592.8	598.7	603.0	605.7	607.0	606.7	604.7	601.3	596.3	589.4	581.0
-42.5°	562.2	568.0	572.2	574.9	576.1	575.7	573.8	570.6	565.6	559.0	551.4
-45°	530.8	536.0	539.8	542.2	543.4	543.2	541.6	538.8	534.5	529.3	522.2
-47.5°	498.7	503.7	507.4	509.8	511.1	511.0	509.7	507.3	503.7	498.7	492.7
-50°	466.4	471.0	474.4	476.7	478.2	478.4	477.5	475.4	472.1	467.7	462.8
-52.5°	434.1	438.5	441.7	443.9	445.4	445.8	445.2	443.4	440.4	436.6	431.8
-55°	401.9	406.0	409.1	411.2	412.7	413.2	412.7	411.3	409.0	405.6	401.3
-57.5°	369.6	373.4	376.2	378.2	379.8	380.4	380.2	379.1	377.1	374.3	370.5
-60°	337.3	340.7	343.3	345.0	346.7	347.6	347.6	346.9	345.2	342.8	339.6
-62.5°	305.5	308.7	311.2	313.0	314.6	315.6	315.7	315.2	313.8	311.8	309.0
-65°	273.7	276.7	279.1	280.8	282.4	283.4	283.7	283.4	282.4	280.7	278.4
-67.5°	241.5	244.3	246.5	248.1	249.8	250.9	251.4	251.4	250.8	249.6	247.8
-70°	209.6	212.1	214.2	215.7	217.4	218.6	219.2	219.4	219.1	218.3	217.1
-72.5°	177.9	180.1	182.0	183.4	185.2	186.5	187.4	187.8	187.8	187.4	186.6
-75°	146.8	148.7	150.3	151.5	153.3	154.7	155.8	156.6	157.0	157.0	156.7
-77.5°	116.7	118.3	119.7	120.8	122.6	124.1	125.3	126.2	126.8	127.1	127.2
-80°	87.9	89.2	90.3	91.2	93.0	94.5	95.8	96.9	97.8	98.6	99.1
-82.5°	61.1	62.1	63.0	63.7	65.5	67.2	68.7	70.1	71.3	72.4	73.4
-85°	38.3	39.0	39.5	40.0	41.8	43.5	45.1	46.7	48.2	49.6	50.9
-87.5°	21.2	21.6	21.9	22.3	24.0	25.6	27.2	28.8	30.3	31.9	33.3
-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: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ESF2ARGBFW-WIZ-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°	30.1	31.6	33.4	35.3	37.1	38.9	40.7	42.4	44.2	45.9	47.6
85°	46.2	47.4	48.9	50.4	51.8	53.1	54.4	55.6	56.7	57.8	58.8
82.5°	67.2	68.0	69.0	69.8	70.5	71.3	71.9	72.4	72.8	73.1	73.2
80°	91.4	91.8	92.2	92.4	92.4	92.4	92.1	91.8	91.2	90.6	89.6
77.5°	118.1	118.0	117.7	117.2	116.5	115.7	114.4	112.9	111.4	109.7	107.7
75°	146.5	145.8	144.9	143.6	142.0	140.2	138.0	135.7	133.2	130.4	127.4
72.5°	175.9	174.5	172.9	171.0	168.6	166.0	163.0	159.6	156.0	152.0	147.5
70°	205.2	203.3	201.1	198.5	195.5	192.1	188.1	183.9	179.5	174.6	168.6
67.5°	235.1	232.8	229.9	226.5	222.6	218.3	213.6	208.5	202.9	196.9	189.9
65°	265.3	262.6	258.8	254.3	250.0	244.9	239.3	233.2	226.5	219.5	211.4
62.5°	295.8	292.1	287.9	282.9	277.4	271.4	264.4	257.6	250.3	241.9	232.7
60°	326.4	321.7	316.7	311.1	304.7	297.9	290.4	282.4	273.3	263.9	253.9
57.5°	356.2	351.4	345.6	339.2	332.0	324.1	315.7	306.6	297.2	286.4	274.6
55°	386.4	380.8	374.3	366.9	359.0	349.8	340.8	330.8	319.9	308.1	295.7
52.5°	416.6	410.2	403.0	394.6	385.8	376.2	365.7	353.9	342.6	329.6	316.1
50°	446.5	439.3	431.1	422.2	412.4	401.5	390.3	378.3	364.7	350.4	336.2
47.5°	476.1	468.0	459.2	449.5	438.5	426.9	414.5	401.0	386.8	371.6	355.4
45°	506.0	497.0	487.1	475.8	464.3	451.9	438.4	423.5	407.9	392.0	375.4
42.5°	535.4	525.5	514.5	502.5	489.6	476.0	461.5	445.5	428.9	411.6	394.0
40°	563.3	553.4	542.0	529.0	514.4	499.8	483.5	466.8	449.2	430.9	412.1
37.5°	591.5	580.2	567.6	554.2	540.0	523.1	505.6	487.3	468.8	449.4	429.6
35°	618.7	606.7	593.1	578.3	562.7	546.0	527.1	507.7	487.7	467.4	446.2
32.5°	645.0	631.9	617.8	602.6	584.9	566.7	547.9	527.2	506.2	484.5	462.4
30°	670.5	656.7	641.2	624.6	606.8	587.1	566.8	545.9	523.5	501.2	477.8
27.5°	694.4	679.9	663.9	645.8	626.7	606.7	585.4	563.0	540.2	516.5	492.3
25°	717.0	701.9	684.8	665.9	645.6	624.8	602.7	579.4	555.5	531.2	506.2
22.5°	738.4	721.9	704.0	684.4	663.6	641.3	618.8	595.1	570.0	544.4	518.3
20°	758.2	740.7	721.9	701.7	680.0	657.0	633.5	608.8	583.0	556.3	529.5
17.5°	775.3	757.7	738.1	717.3	694.8	671.1	646.3	621.3	594.9	567.0	539.4
15°	791.0	772.7	752.9	731.1	708.0	683.7	657.9	632.0	604.9	576.5	548.1
12.5°	804.8	785.7	765.6	743.2	719.4	693.9	667.6	640.8	613.2	584.7	555.9
10°	816.4	796.8	775.7	753.1	728.4	702.5	675.8	648.3	620.5	591.7	562.3
7.5°	824.9	805.2	783.5	760.2	735.5	709.3	682.4	654.4	626.4	597.0	567.3
5°	830.9	811.4	789.7	765.9	740.8	714.5	687.1	658.8	630.6	601.1	571.3
2.5°	834.9	815.1	793.4	769.7	744.2	718.0	689.8	661.7	633.3	603.8	573.9
0°	836.8	816.6	795.1	771.3	745.6	719.5	691.0	663.0	634.5	605.0	575.1
-2.5°	835.4	815.3	793.8	769.9	744.7	718.3	690.2	662.2	633.6	604.1	574.2
-5°	831.8	811.9	790.4	766.4	741.8	715.1	687.9	659.8	631.3	601.6	571.9
-7.5°	825.9	806.3	784.9	761.1	736.9	710.3	683.9	655.8	627.4	597.6	568.2
-10°	817.3	798.3	777.1	754.2	730.0	703.9	678.0	650.5	622.0	592.5	563.6
-12.5°	806.5	787.9	766.8	745.5	721.1	695.6	670.2	643.2	615.0	586.2	557.4
-15°	793.7	775.3	755.2	733.9	710.1	686.3	660.8	634.1	606.7	578.3	550.0
-17.5°	778.9	760.7	741.6	720.1	697.5	674.6	650.1	623.9	596.6	569.3	541.3
-20°	761.8	744.7	725.8	704.8	683.6	660.7	636.7	611.5	585.5	558.9	531.3



REPORT NUMBER: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ESF2ARGBFWF-WiZ-4000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	743.2	726.9	708.0	688.3	667.5	645.6	622.0	597.7	572.8	547.4	520.6
-25°	722.6	706.7	689.2	670.5	649.9	628.3	606.1	582.7	558.8	534.0	508.9
-27.5°	700.0	685.2	669.0	650.4	631.0	610.5	588.9	566.7	543.7	519.8	496.2
-30°	676.8	662.4	646.5	629.4	610.8	591.4	570.9	549.7	527.3	504.8	482.0
-32.5°	651.8	638.3	623.2	607.2	590.0	571.4	552.0	531.7	510.6	489.4	466.6
-35°	625.8	613.0	599.3	584.0	568.0	550.6	532.2	512.7	493.1	472.4	450.7
-37.5°	599.0	587.1	574.0	560.0	545.1	529.0	511.4	493.4	474.5	454.4	434.0
-40°	571.2	560.1	548.4	535.3	521.3	506.5	490.3	473.1	454.6	436.0	417.0
-42.5°	543.0	533.1	522.0	509.9	497.0	483.3	468.3	451.6	434.6	417.2	399.0
-45°	514.4	505.3	495.2	484.1	472.0	458.9	445.2	430.0	414.3	397.6	380.1
-47.5°	485.4	476.9	467.9	457.5	446.1	434.1	421.6	408.0	392.8	377.2	361.0
-50°	456.0	448.1	439.7	430.3	420.3	409.4	397.8	384.8	371.2	356.5	341.4
-52.5°	426.1	419.4	411.7	403.1	394.0	383.6	373.0	361.6	348.7	335.3	321.4
-55°	396.0	390.1	383.2	375.3	367.1	357.9	348.1	337.6	326.2	314.1	301.1
-57.5°	365.9	360.6	354.4	347.5	340.1	331.9	322.8	313.6	303.5	292.2	280.6
-60°	336.1	331.2	325.7	319.6	312.8	305.8	297.8	289.2	280.4	270.3	259.7
-62.5°	305.5	301.7	297.1	291.7	285.7	279.3	272.4	264.9	256.9	248.0	238.2
-65°	275.5	272.1	268.1	263.7	258.6	252.9	246.7	240.1	232.9	225.2	216.8
-67.5°	245.4	242.4	239.0	235.2	231.0	226.2	220.9	215.2	209.1	202.5	195.4
-70°	215.4	213.3	210.6	207.4	203.7	199.6	195.2	190.6	185.5	180.3	174.3
-72.5°	185.3	183.8	181.8	179.4	176.4	173.4	170.1	166.4	162.4	158.0	153.3
-75°	155.9	154.8	153.5	151.8	149.7	147.5	145.1	142.4	139.6	136.6	133.0
-77.5°	126.9	126.3	125.7	124.8	123.7	122.4	120.9	119.3	117.6	115.6	113.2
-80°	99.3	99.4	99.5	99.3	99.1	98.6	98.1	97.5	96.8	95.9	94.8
-82.5°	74.2	74.9	75.6	76.2	76.7	77.1	77.4	77.5	77.7	77.8	77.7
-85°	52.1	53.2	54.5	55.8	57.0	58.2	59.3	60.4	61.4	62.4	63.2
-87.5°	34.8	36.2	37.9	39.6	41.3	43.0	44.6	46.2	47.8	49.3	50.9
-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: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**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°	48.6	49.6	50.5	51.5	52.5	53.5	54.5	55.4	56.3	56.4	56.5
85°	59.1	59.3	59.5	59.8	60.1	60.3	60.6	60.8	61.0	60.4	59.8
82.5°	72.6	72.1	71.5	70.9	70.2	69.6	68.9	68.1	67.3	65.6	64.1
80°	88.1	86.5	85.0	83.4	81.6	79.7	78.0	76.4	74.6	71.9	69.2
77.5°	105.3	102.5	99.7	96.9	94.0	91.2	88.3	85.4	82.3	78.5	75.0
75°	123.4	119.5	115.4	111.5	107.3	103.1	99.1	95.0	90.7	85.6	80.8
72.5°	142.6	137.5	132.3	126.8	121.4	115.9	110.5	105.1	99.4	93.3	87.1
70°	162.4	156.0	149.4	142.8	136.1	129.2	122.4	115.7	108.4	101.1	93.8
67.5°	182.7	175.0	167.1	159.1	151.0	142.8	134.7	126.6	117.9	108.9	100.5
65°	202.8	194.0	185.0	175.7	166.2	156.7	147.2	137.7	127.5	117.3	107.3
62.5°	223.0	213.1	202.8	192.2	181.6	170.7	159.8	148.9	137.2	125.7	114.3
60°	243.3	232.1	220.5	208.8	196.8	184.7	172.4	160.0	147.0	134.1	121.5
57.5°	263.0	250.9	238.4	225.2	212.1	198.5	185.1	171.1	156.7	142.6	128.6
55°	282.7	269.2	255.6	241.7	226.9	212.4	197.4	182.1	166.4	150.9	135.7
52.5°	302.2	287.7	272.6	257.4	242.0	225.8	209.8	192.8	175.9	159.1	142.8
50°	321.1	305.6	289.6	273.0	256.3	239.4	221.6	203.4	185.3	167.3	149.7
47.5°	339.7	322.9	305.9	288.5	270.2	252.3	233.1	213.9	194.4	175.2	156.4
45°	357.4	340.0	321.8	303.1	284.4	264.6	244.6	223.8	203.3	182.9	162.9
42.5°	375.7	356.3	337.2	317.6	297.6	276.5	255.2	233.5	212.0	190.5	169.3
40°	392.7	372.7	352.0	331.3	310.2	288.3	265.4	243.2	220.4	197.8	175.5
37.5°	409.2	388.2	366.6	344.7	322.1	299.0	275.3	252.0	228.2	204.7	181.3
35°	425.0	403.0	380.9	357.0	333.4	309.3	285.2	260.4	235.8	211.4	187.0
32.5°	439.7	417.2	393.7	369.1	344.2	319.2	294.1	268.4	243.2	217.7	192.5
30°	454.0	430.6	405.6	380.4	354.2	328.4	302.3	276.0	249.9	223.5	197.6
27.5°	467.6	442.2	416.9	390.6	363.8	337.1	310.1	283.4	256.1	229.0	202.3
25°	480.1	453.5	427.3	400.1	372.8	345.1	317.5	289.9	261.8	234.2	206.6
22.5°	491.2	464.0	436.8	409.0	381.0	352.5	324.2	295.9	267.1	238.8	210.6
20°	501.9	473.6	445.2	417.1	388.4	359.4	330.3	301.2	272.0	243.2	214.3
17.5°	511.1	482.2	453.0	424.4	394.9	365.3	335.8	306.0	276.4	247.1	217.6
15°	519.2	489.7	460.2	430.8	400.7	370.6	340.4	310.2	280.3	250.4	220.5
12.5°	526.3	496.2	466.3	436.4	405.8	375.2	344.5	314.0	283.6	253.2	222.9
10°	532.4	501.8	471.4	440.8	410.0	379.0	348.0	317.1	286.4	255.5	225.0
7.5°	537.2	506.4	475.4	444.4	413.3	382.1	350.8	319.6	288.6	257.4	226.7
5°	540.7	509.7	478.4	447.2	415.8	384.3	352.9	321.4	290.2	258.8	227.9
2.5°	543.0	511.9	480.3	449.0	417.4	385.7	354.3	322.7	291.2	259.7	228.7
0°	544.1	512.9	481.2	449.9	418.1	386.3	354.9	323.2	291.7	260.1	229.1
-2.5°	543.3	512.1	480.6	449.3	417.6	385.8	354.4	322.8	291.3	259.8	228.8
-5°	541.2	510.1	479.0	447.7	416.2	384.6	353.2	321.7	290.4	259.0	228.1
-7.5°	537.9	507.0	476.4	445.2	414.0	382.5	351.2	320.0	288.9	257.8	227.0
-10°	533.3	502.9	472.6	441.8	410.9	379.7	348.6	317.6	286.8	256.0	225.4
-12.5°	527.5	497.8	467.7	437.4	406.8	376.0	345.2	314.6	284.2	253.8	223.4
-15°	520.7	491.8	461.9	432.1	402.0	371.5	341.3	311.0	281.0	251.1	221.1
-17.5°	512.9	484.4	454.9	425.8	396.3	366.6	336.8	306.9	277.3	247.9	218.3
-20°	503.9	476.2	447.5	419.0	389.8	360.8	331.6	302.2	273.0	244.1	215.2



REPORT NUMBER: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ESF2ARGBFW-WiZ-4000K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	494.4	466.7	438.9	411.0	382.5	354.1	325.6	297.0	268.3	239.9	211.6
-25°	483.4	456.4	429.5	402.4	374.4	346.6	319.0	291.3	263.1	235.4	207.7
-27.5°	471.2	445.4	419.5	392.9	365.9	338.8	311.7	284.7	257.5	230.5	203.5
-30°	457.7	433.3	408.4	382.4	356.5	330.4	303.9	277.8	251.5	225.0	198.9
-32.5°	443.6	420.4	396.5	371.4	346.3	321.2	295.8	270.2	244.8	219.2	193.9
-35°	428.8	406.6	383.3	359.9	335.7	311.3	287.1	262.3	237.7	213.0	188.6
-37.5°	413.5	391.8	369.7	347.3	324.6	301.1	277.8	254.2	230.3	206.5	183.0
-40°	397.0	376.5	355.4	334.2	312.7	290.7	267.8	245.3	222.3	199.7	177.3
-42.5°	379.9	360.5	340.7	320.7	300.2	279.3	257.7	236.0	214.2	192.6	171.2
-45°	362.4	344.0	325.5	306.3	287.3	267.5	247.2	226.5	205.7	185.1	165.0
-47.5°	344.2	327.2	309.6	291.9	273.7	255.4	236.1	216.4	197.0	177.7	158.5
-50°	325.8	309.9	293.5	276.8	259.7	242.4	224.7	206.3	187.9	169.8	151.8
-52.5°	307.0	292.2	277.0	261.3	245.5	229.3	213.0	195.9	178.9	161.8	144.9
-55°	287.9	274.2	260.0	245.6	230.8	215.8	200.8	185.2	169.4	153.6	138.0
-57.5°	268.4	255.7	242.7	229.3	215.7	202.2	188.6	174.5	159.9	145.2	131.0
-60°	248.5	236.9	225.0	212.9	200.7	188.5	176.2	163.6	150.1	136.9	123.8
-62.5°	228.1	217.9	207.2	196.5	185.7	174.8	163.7	152.5	140.3	128.5	116.6
-65°	207.8	198.8	189.5	180.2	170.5	160.9	151.0	141.2	130.8	120.0	109.6
-67.5°	187.6	180.0	172.1	163.7	155.5	147.0	138.5	130.2	121.0	111.7	102.8
-70°	167.9	161.1	154.4	147.5	140.4	133.3	126.3	119.1	111.5	103.7	95.8
-72.5°	148.2	142.8	137.1	131.4	125.8	119.9	114.1	108.5	102.4	95.6	89.2
-75°	128.8	124.7	120.4	115.8	111.4	107.0	102.6	98.1	93.4	88.0	82.6
-77.5°	110.2	107.2	104.2	101.1	97.9	94.6	91.4	88.2	84.8	80.8	77.0
-80°	92.9	91.0	89.0	87.1	85.0	83.0	80.9	79.1	77.2	74.2	71.3
-82.5°	76.8	76.0	75.2	74.4	73.7	72.8	71.9	71.0	70.0	68.0	66.2
-85°	63.3	63.4	63.5	63.5	63.5	63.5	63.6	63.6	63.7	62.6	61.5
-87.5°	51.7	52.5	53.3	54.1	55.0	55.8	56.6	57.4	58.2	57.9	57.7
-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: P694454 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: ESF2ARGBFW-WiZ-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°	56.5	56.5	49.3	37.4	25.1	12.7	0.0
85°	59.3	58.7	58.3	57.9	50.2	25.3	0.0
82.5°	62.6	61.3	60.2	59.2	58.3	37.9	0.0
80°	66.7	64.4	62.4	60.7	59.2	50.5	0.0
77.5°	71.4	68.0	64.9	62.3	60.2	58.3	0.0
75°	76.3	71.9	67.7	64.1	61.1	58.8	0.0
72.5°	81.3	76.0	70.7	66.0	62.1	59.2	0.0
70°	86.7	80.1	73.9	68.1	63.3	59.7	0.0
67.5°	92.3	84.3	77.1	70.3	64.4	60.1	0.0
65°	97.9	88.7	80.3	72.6	65.6	60.5	0.0
62.5°	103.6	93.3	83.6	74.9	66.9	61.0	0.0
60°	109.2	97.8	86.8	77.1	68.2	61.4	0.0
57.5°	115.1	102.3	90.3	79.3	69.5	61.9	0.0
55°	120.9	106.8	93.6	81.6	70.9	62.3	0.0
52.5°	126.7	111.3	97.0	83.8	72.2	62.8	0.0
50°	132.4	115.8	100.3	86.0	73.5	63.2	0.0
47.5°	138.0	120.2	103.5	88.2	74.8	63.7	0.0
45°	143.5	124.5	106.6	90.3	76.1	64.2	0.0
42.5°	148.7	128.8	109.7	92.4	77.2	64.6	0.0
40°	153.9	132.8	112.7	94.5	78.4	65.0	0.0
37.5°	158.6	136.7	115.7	96.5	79.4	65.4	0.0
35°	163.3	140.5	118.5	98.4	80.5	65.8	0.0
32.5°	167.8	144.0	121.1	100.2	81.6	66.2	0.0
30°	171.9	147.4	123.7	101.9	82.6	66.6	0.0
27.5°	175.8	150.5	126.1	103.4	83.5	67.0	0.0
25°	179.5	153.4	128.3	104.9	84.3	67.3	0.0
22.5°	182.7	156.1	130.3	106.2	85.1	67.6	0.0
20°	185.7	158.4	132.2	107.5	85.8	67.9	0.0
17.5°	188.5	160.5	133.8	108.6	86.5	68.1	0.0
15°	191.0	162.4	135.3	109.6	87.0	68.3	0.0
12.5°	193.1	164.1	136.5	110.4	87.5	68.5	0.0
10°	194.9	165.5	137.6	111.2	87.9	68.7	0.0
7.5°	196.3	166.6	138.4	111.7	88.2	68.8	0.0
5°	197.4	167.4	139.1	112.2	88.5	68.9	0.0
2.5°	198.1	167.9	139.5	112.5	88.6	69.0	0.0
0°	198.4	168.2	139.7	112.6	88.7	69.0	0.0
-2.5°	198.2	168.0	139.6	112.5	88.6	69.0	0.0
-5°	197.6	167.6	139.2	112.3	88.5	68.9	0.0
-7.5°	196.6	166.8	138.6	111.9	88.3	68.8	0.0
-10°	195.3	165.8	137.9	111.4	88.0	68.7	0.0
-12.5°	193.6	164.5	136.9	110.7	87.6	68.6	0.0
-15°	191.6	162.9	135.7	109.9	87.2	68.4	0.0
-17.5°	189.2	161.2	134.3	108.9	86.6	68.2	0.0
-20°	186.5	159.2	132.7	107.8	86.0	68.0	0.0

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CATALOG NUMBER: ESF2ARGBFWF-WiZ-4000K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	183.6	156.9	130.9	106.6	85.3	67.7	0.0
-25°	180.5	154.3	129.0	105.3	84.6	67.4	0.0
-27.5°	177.0	151.4	126.8	103.9	83.7	67.1	0.0
-30°	173.1	148.3	124.4	102.4	82.8	66.8	0.0
-32.5°	169.1	145.1	121.9	100.7	81.9	66.4	0.0
-35°	164.7	141.6	119.3	98.9	80.9	66.0	0.0
-37.5°	160.2	137.9	116.6	97.0	79.8	65.6	0.0
-40°	155.4	134.1	113.7	95.1	78.8	65.2	0.0
-42.5°	150.3	130.1	110.7	93.0	77.6	64.8	0.0
-45°	145.1	125.9	107.7	91.0	76.5	64.4	0.0
-47.5°	139.7	121.5	104.5	88.8	75.3	63.9	0.0
-50°	134.3	117.2	101.3	86.7	74.0	63.4	0.0
-52.5°	128.6	112.7	98.0	84.4	72.7	63.0	0.0
-55°	122.7	108.3	94.6	82.2	71.4	62.5	0.0
-57.5°	116.9	103.8	91.3	80.0	70.1	62.1	0.0
-60°	111.1	99.2	87.9	77.8	68.7	61.6	0.0
-62.5°	105.4	94.6	84.5	75.6	67.4	61.2	0.0
-65°	99.7	90.1	81.3	73.4	66.2	60.7	0.0
-67.5°	93.9	85.6	78.2	71.2	65.0	60.3	0.0
-70°	88.3	81.4	75.0	68.9	63.8	59.8	0.0
-72.5°	82.9	77.4	71.9	66.9	62.6	59.4	0.0
-75°	78.0	73.4	68.9	64.9	61.6	58.9	0.0
-77.5°	73.2	69.5	66.1	63.1	60.6	58.5	0.0
-80°	68.5	65.9	63.5	61.4	59.6	50.6	0.0
-82.5°	64.4	62.7	61.2	59.8	58.7	38.0	0.0
-85°	60.7	59.8	59.1	58.4	50.5	25.4	0.0
-87.5°	57.5	57.3	49.8	37.6	25.3	12.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)