

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: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ESF2ARGBWFB-WiZ-4000K

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-2019
Report Number: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2300277B001)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ESF2ARGBWFB-WiZ-4000K
Description: 2400LM FLOOD BLACK WITH
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2181.9 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 0.34' x H: 0.13')

NEMA Type: 7H x 7V
Max Intensity: 841.9 candela
Max Intensity Angle: 2.5°H x 0°V

Beam Angle (50%): 102.2°H x 102.2°V
Beam Lumens: 1436.5 lumens
Beam Efficiency: 65.8%

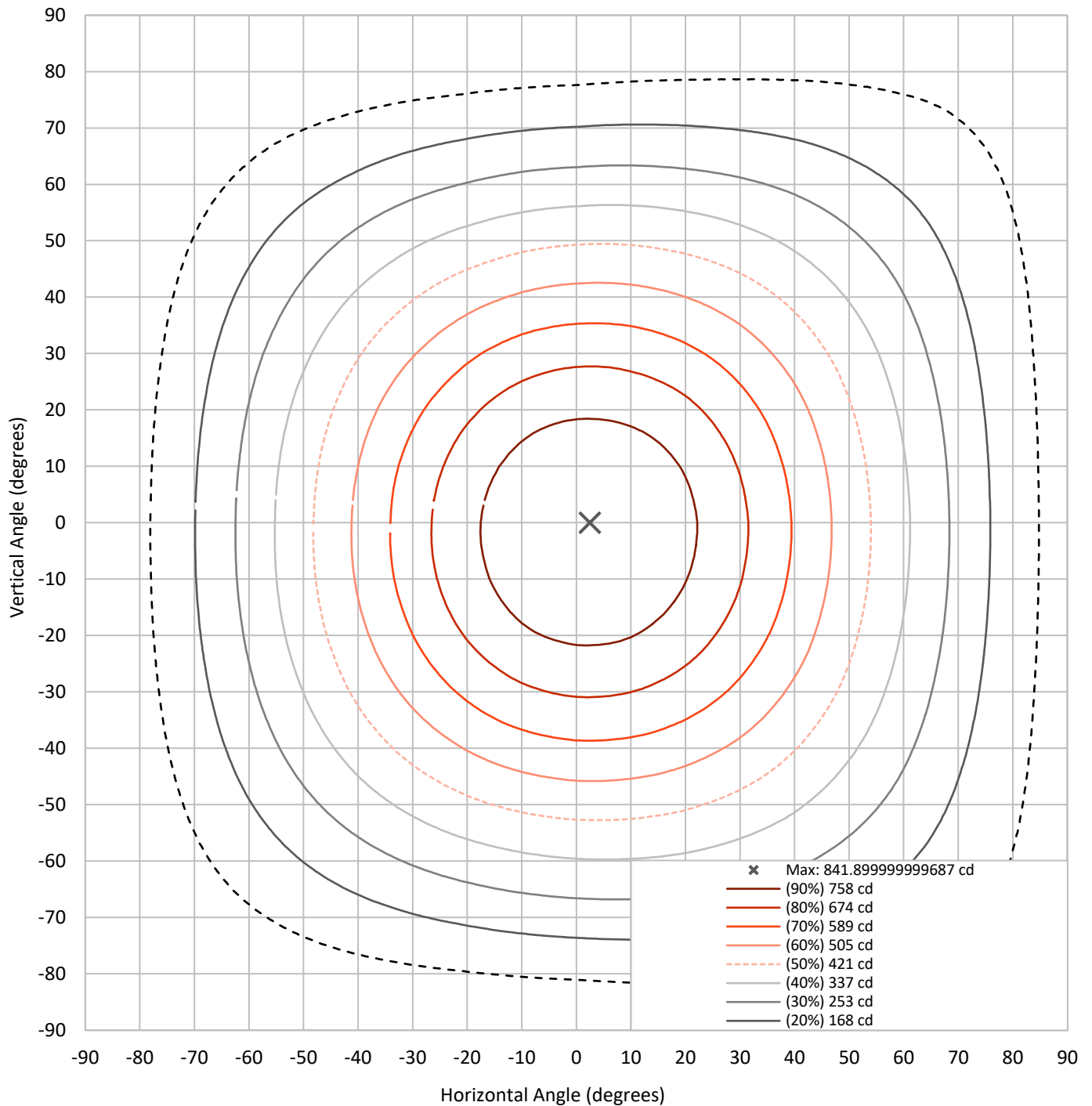
Field Angle (10%): 162.8°H x 159°V
Field Lumens: 2135.8 lumens
Field Efficiency: 97.9%

Input Watts (W): 28.6
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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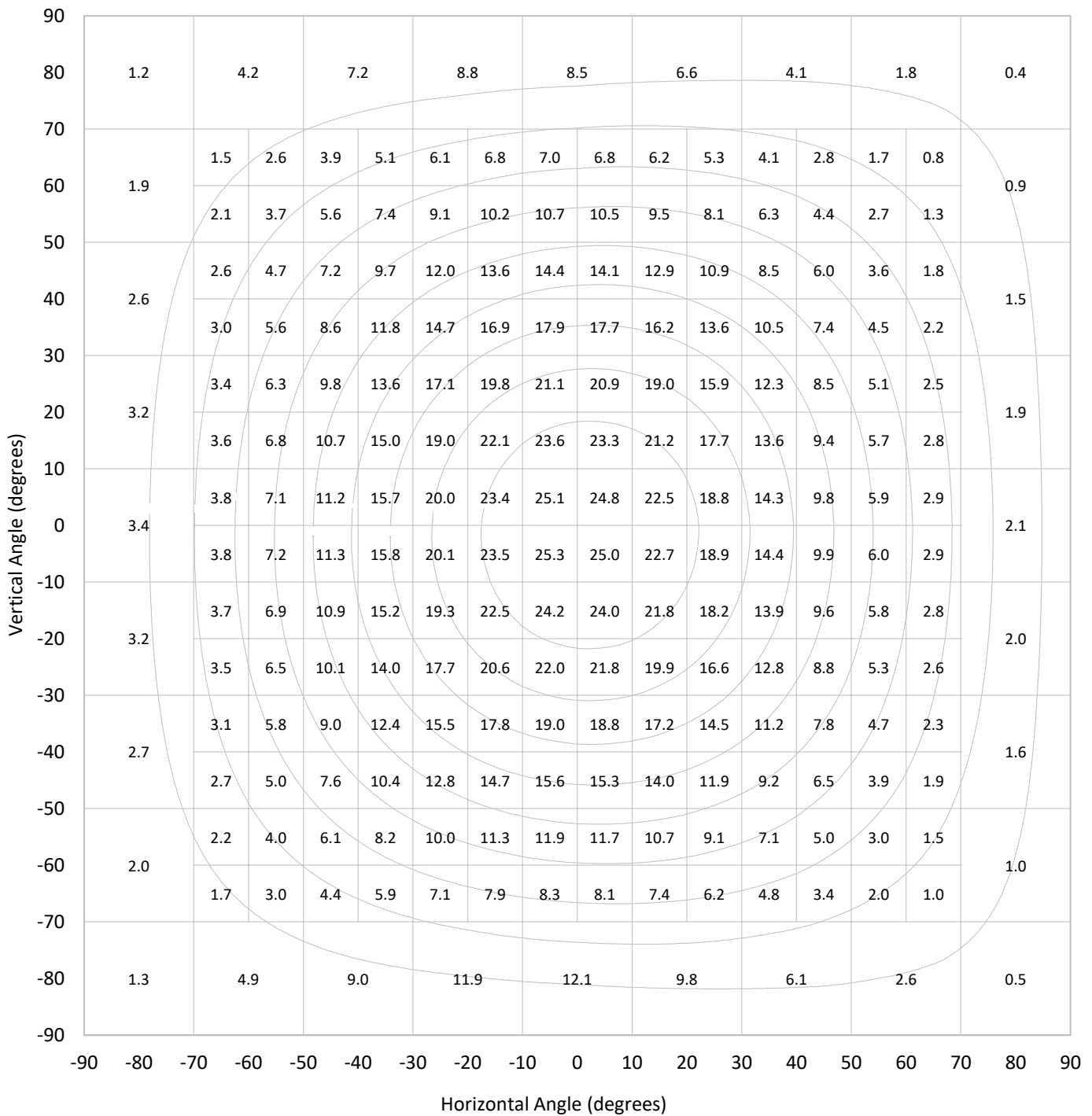
Iso-Candela Plot





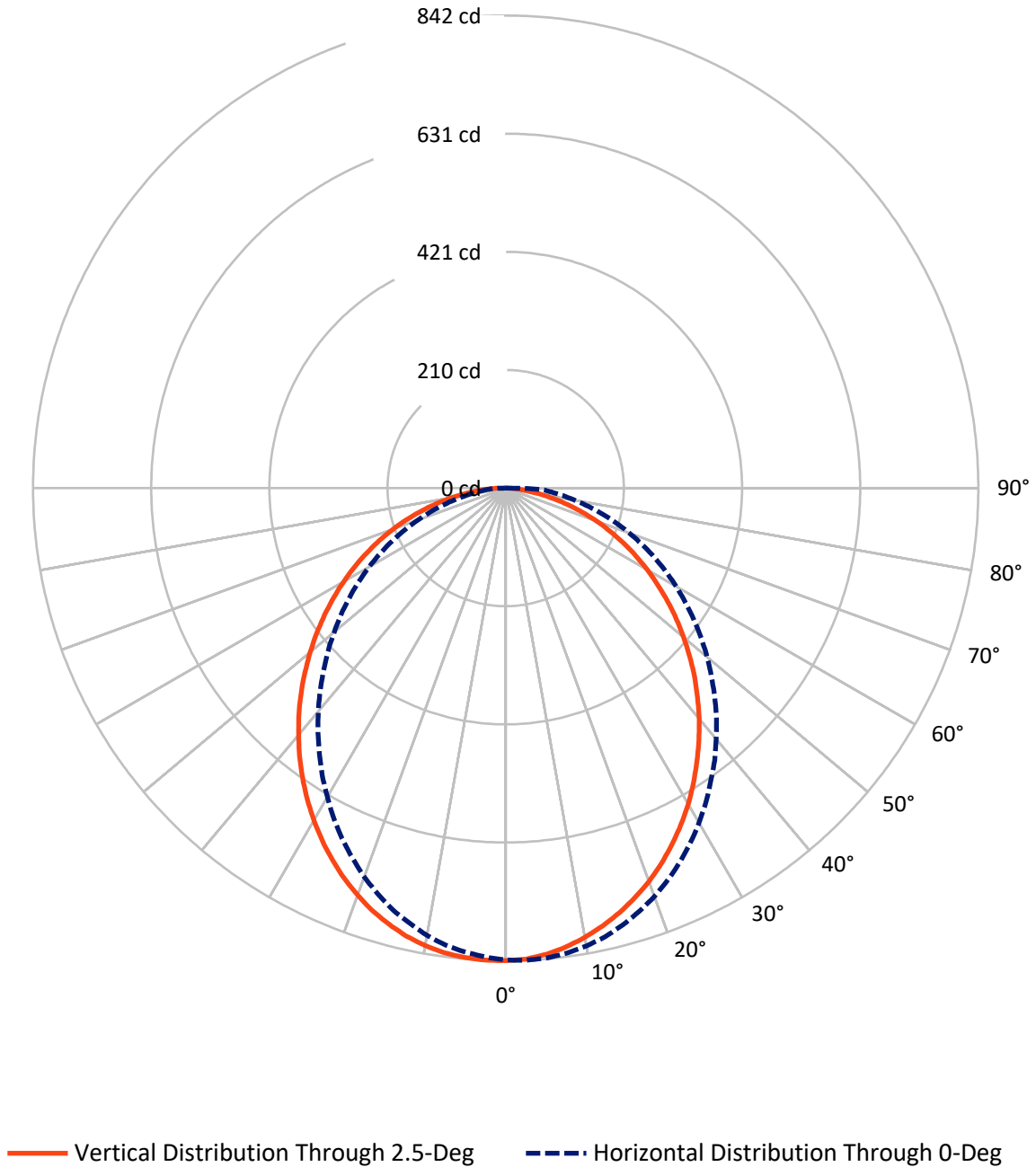
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Lumen Table



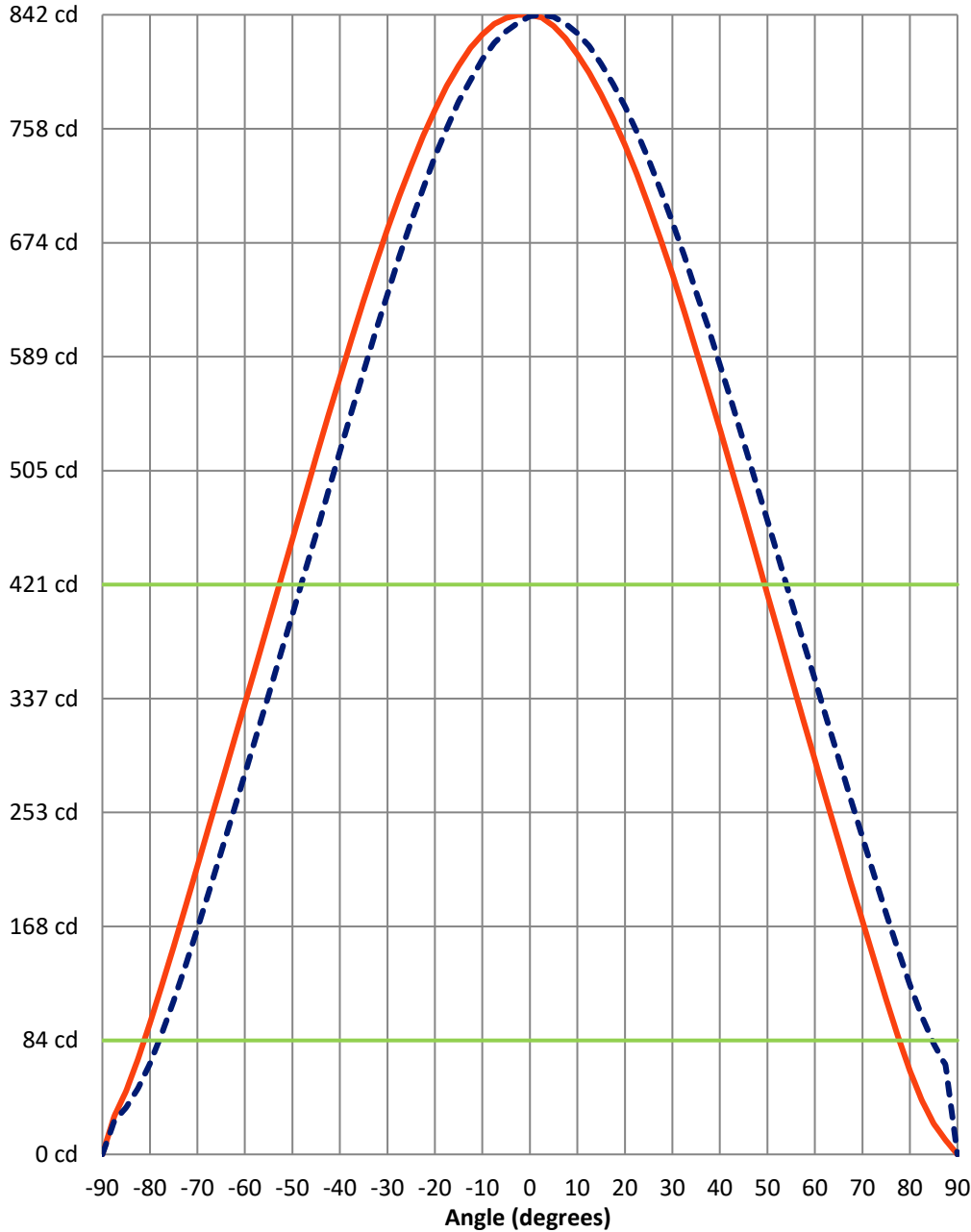
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 102.2°
 V Angle: 102.2°
 Lumens: 1436.5
 Efficiency: 65.8%

Field:
 H Angle: 162.8°
 V Angle: 159°
 Lumens: 2135.8
 Efficiency: 97.9%

Spill:
 Lumens: 46.1
 Efficiency: 2.1%

— 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	3.8	7.4	10.9	14.1	16.0	16.0	15.9	15.7	15.6	15.4
85°	0.0	7.6	14.8	17.1	17.3	17.5	17.7	17.8	17.9	18.0	18.0
82.5°	0.0	11.3	17.5	18.0	18.6	19.1	19.5	20.0	20.5	20.9	21.2
80°	0.0	15.1	18.1	19.0	19.9	20.7	21.6	22.4	23.3	24.3	25.0
77.5°	0.0	17.5	18.8	20.0	21.3	22.5	23.8	25.1	26.5	27.8	29.2
75°	0.0	17.8	19.4	21.0	22.7	24.3	26.2	28.0	29.9	31.9	34.2
72.5°	0.0	18.1	20.1	22.1	24.1	26.4	28.7	31.0	33.7	36.7	40.3
70°	0.0	18.5	20.8	23.2	25.7	28.5	31.3	34.5	38.2	42.4	47.6
67.5°	0.0	18.8	21.5	24.2	27.3	30.6	34.1	38.3	43.2	49.2	55.2
65°	0.0	19.1	22.2	25.3	29.0	32.8	37.3	42.6	49.1	55.9	63.2
62.5°	0.0	19.4	22.9	26.5	30.6	35.1	40.7	47.4	55.0	63.0	71.6
60°	0.0	19.7	23.6	27.7	32.3	37.7	44.4	52.5	61.0	70.3	80.3
57.5°	0.0	20.0	24.2	28.9	34.0	40.5	48.4	57.5	67.2	78.0	89.1
55°	0.0	20.3	24.9	30.1	35.9	43.3	52.5	62.5	73.7	85.7	98.2
52.5°	0.0	20.6	25.5	31.2	37.8	46.2	56.6	67.7	80.2	93.5	107.2
50°	0.0	20.9	26.2	32.4	39.8	49.4	60.5	73.1	86.8	101.3	116.4
47.5°	0.0	21.2	26.9	33.5	41.8	52.5	64.5	78.4	93.3	108.8	125.4
45°	0.0	21.5	27.5	34.6	43.8	55.5	68.5	83.6	99.6	116.6	134.0
42.5°	0.0	21.8	28.2	35.7	45.8	58.5	72.7	88.8	105.9	124.1	142.6
40°	0.0	22.1	28.8	36.9	47.8	61.3	76.7	93.8	112.0	131.2	150.7
37.5°	0.0	22.3	29.4	38.1	49.9	64.1	80.6	98.7	118.1	138.1	158.7
35°	0.0	22.6	30.0	39.2	51.9	66.7	84.4	103.4	123.8	144.8	166.3
32.5°	0.0	22.8	30.6	40.4	53.7	69.3	88.0	107.8	129.1	151.0	173.5
30°	0.0	23.0	31.1	41.4	55.5	72.0	91.3	112.1	134.2	157.0	180.3
27.5°	0.0	23.2	31.6	42.5	57.2	74.5	94.6	116.3	139.0	162.6	186.5
25°	0.0	23.4	32.1	43.4	58.8	76.8	97.7	120.1	143.5	167.9	192.6
22.5°	0.0	23.6	32.5	44.3	60.2	78.9	100.4	123.6	147.6	172.6	198.1
20°	0.0	23.8	32.9	45.2	61.5	80.9	102.9	126.6	151.3	176.9	203.1
17.5°	0.0	23.9	33.3	45.9	62.7	82.6	105.2	129.4	154.7	180.9	207.7
15°	0.0	24.1	33.6	46.6	63.7	84.2	107.2	132.0	157.7	184.3	211.6
12.5°	0.0	24.2	33.9	47.2	64.6	85.6	108.9	134.1	160.3	187.1	215.0
10°	0.0	24.3	34.1	47.7	65.4	86.8	110.4	135.9	162.4	189.7	217.8
7.5°	0.0	24.4	34.3	48.1	66.0	87.7	111.6	137.3	164.1	191.7	220.0
5°	0.0	24.4	34.5	48.4	66.5	88.4	112.5	138.3	165.4	193.3	221.7
2.5°	0.0	24.5	34.6	48.7	66.8	88.9	113.1	139.0	166.3	194.3	222.9
0°	0.0	24.5	34.7	48.8	67.0	89.2	113.4	139.4	166.7	194.8	223.4
-2.5°	0.0	24.5	34.7	48.8	67.1	89.3	113.5	139.6	166.9	195.0	223.7
-5°	0.0	24.5	34.7	48.8	67.0	89.1	113.4	139.4	166.7	194.7	223.4
-7.5°	0.0	24.5	34.6	48.6	66.7	88.8	112.9	138.9	166.0	193.9	222.5
-10°	0.0	24.4	34.5	48.4	66.4	88.2	112.2	138.0	165.0	192.5	221.0
-12.5°	0.0	24.4	34.4	48.1	65.9	87.4	111.1	136.7	163.5	190.7	219.0
-15°	0.0	24.3	34.2	47.7	65.2	86.3	109.8	135.1	161.5	188.6	216.4
-17.5°	0.0	24.2	33.9	47.2	64.4	85.0	108.2	133.1	159.1	185.8	213.2
-20°	0.0	24.1	33.7	46.6	63.5	83.6	106.3	130.8	156.3	182.4	209.4

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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	23.9	33.4	45.9	62.4	81.9	104.2	128.2	153.2	178.7	205.2
-25°	0.0	23.8	33.0	45.1	61.1	80.0	101.8	125.2	149.5	174.6	200.3
-27.5°	0.0	23.6	32.6	44.3	59.8	78.0	99.2	121.9	145.6	170.2	195.0
-30°	0.0	23.4	32.2	43.4	58.3	75.8	96.3	118.2	141.3	165.2	189.5
-32.5°	0.0	23.3	31.7	42.4	56.7	73.3	93.2	114.3	136.6	159.8	183.0
-35°	0.0	23.0	31.2	41.4	55.1	70.9	89.9	110.1	131.7	154.0	176.5
-37.5°	0.0	22.8	30.7	40.3	53.3	68.4	86.4	105.8	126.6	147.9	169.8
-40°	0.0	22.6	30.1	39.3	51.4	65.9	82.6	101.3	120.9	141.3	162.4
-42.5°	0.0	22.3	29.5	38.1	49.6	63.3	78.8	96.5	115.1	134.5	154.7
-45°	0.0	22.1	28.9	37.1	47.7	60.5	74.8	91.6	109.0	127.7	146.6
-47.5°	0.0	21.8	28.3	36.0	45.7	57.7	70.9	86.5	103.0	120.3	138.1
-50°	0.0	21.5	27.6	34.9	43.8	54.7	67.1	81.2	96.8	112.8	129.7
-52.5°	0.0	21.2	27.0	33.8	41.8	51.8	63.3	75.9	90.4	105.3	120.9
-55°	0.0	20.9	26.3	32.6	39.8	49.0	59.4	70.8	83.8	97.7	111.9
-57.5°	0.0	20.7	25.7	31.4	38.0	46.1	55.5	65.9	77.3	90.0	103.1
-60°	0.0	20.4	25.1	30.3	36.2	43.3	51.7	61.0	71.0	82.1	94.3
-62.5°	0.0	20.1	24.4	29.1	34.5	40.5	47.9	56.1	65.1	74.6	85.2
-65°	0.0	19.7	23.7	27.9	32.7	38.0	44.3	51.5	59.3	67.5	76.4
-67.5°	0.0	19.4	22.9	26.7	31.0	35.6	40.8	46.9	53.7	60.8	68.3
-70°	0.0	19.1	22.2	25.7	29.3	33.3	37.7	42.6	48.2	54.3	60.6
-72.5°	0.0	18.8	21.5	24.5	27.6	31.1	34.8	38.7	43.1	48.1	53.3
-75°	0.0	18.4	20.8	23.3	26.1	28.9	32.0	35.2	38.6	42.4	46.4
-77.5°	0.0	18.1	20.1	22.2	24.5	26.8	29.3	31.9	34.6	37.5	40.3
-80°	0.0	15.6	19.4	21.1	22.9	24.8	26.8	28.8	30.9	33.1	35.0
-82.5°	0.0	11.7	18.7	20.1	21.5	22.9	24.3	25.8	27.4	29.0	30.3
-85°	0.0	7.8	15.9	19.0	20.0	21.0	22.0	23.1	24.1	25.1	25.9
-87.5°	0.0	3.9	7.9	12.1	16.3	19.2	19.8	20.4	21.1	21.7	22.1
-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: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ESF2ARGBWFB-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°	15.1	14.9	14.6	14.3	13.9	13.6	13.2	12.8	12.4	11.9	11.5
85°	18.0	17.9	17.9	17.7	17.6	17.4	17.3	17.0	16.9	16.7	16.5
82.5°	21.6	21.9	22.2	22.4	22.7	22.9	23.2	23.5	24.0	24.5	25.1
80°	25.8	26.5	27.4	28.4	29.3	30.4	31.7	33.1	35.0	36.9	38.7
77.5°	30.6	32.3	34.2	36.4	38.9	41.5	44.0	46.5	49.2	51.8	54.5
75°	36.8	39.8	43.3	46.8	50.3	53.8	57.5	61.2	65.0	68.7	72.5
72.5°	44.4	48.9	53.3	57.9	62.7	67.6	72.4	77.3	82.2	87.2	91.9
70°	52.9	58.4	64.1	70.1	76.2	82.3	88.4	94.3	100.4	106.3	112.2
67.5°	61.7	68.5	75.7	83.0	90.4	97.7	104.9	112.0	119.1	126.2	133.4
65°	71.1	79.3	87.7	96.3	104.9	113.5	122.0	130.3	138.4	146.7	154.9
62.5°	80.8	90.4	100.2	110.0	120.0	129.7	139.5	148.9	158.1	167.7	176.9
60°	90.8	101.9	112.8	124.1	135.2	146.1	157.0	167.8	178.2	188.4	198.8
57.5°	101.1	113.2	125.7	138.2	150.3	162.6	174.8	186.4	198.1	209.5	220.9
55°	111.2	124.9	138.6	152.0	165.7	179.0	192.2	205.2	218.3	230.3	242.5
52.5°	121.8	136.5	151.0	166.0	180.6	195.3	209.7	223.9	237.6	251.2	264.0
50°	131.9	147.6	163.7	179.6	195.5	211.2	226.7	241.9	256.9	271.1	285.0
47.5°	142.1	158.9	176.1	193.0	209.9	226.8	243.4	259.7	275.5	290.9	305.5
45°	151.7	169.9	187.8	206.0	224.1	242.0	259.6	276.9	293.9	310.2	326.2
42.5°	161.4	180.4	199.4	218.6	237.7	256.7	275.4	293.9	311.8	329.3	346.1
40°	170.8	190.6	210.5	230.6	250.9	270.9	290.8	310.2	329.3	347.8	365.7
37.5°	179.6	200.5	221.5	242.4	263.5	284.7	305.5	326.2	346.2	365.8	384.4
35°	188.0	210.0	231.7	253.7	275.7	297.9	319.8	341.3	362.6	382.8	402.8
32.5°	196.2	219.0	241.7	264.5	287.3	310.6	333.4	356.3	377.9	399.5	420.3
30°	203.9	227.5	251.1	274.8	298.6	322.5	346.5	369.8	392.7	415.1	437.2
27.5°	211.1	235.4	259.8	284.6	309.3	333.9	358.8	382.8	406.6	430.0	453.4
25°	217.7	242.8	268.1	293.6	319.1	344.7	370.0	394.9	419.7	444.2	468.4
22.5°	223.8	249.6	275.6	301.8	328.2	354.8	380.5	406.2	431.6	457.4	482.1
20°	229.4	255.8	282.6	309.4	336.2	363.6	390.1	416.6	443.0	469.3	494.8
17.5°	234.3	261.3	288.8	316.3	343.8	371.3	398.6	425.9	453.2	480.1	506.7
15°	238.8	266.3	294.2	322.2	350.5	378.3	406.3	434.3	462.3	489.8	517.7
12.5°	242.6	270.6	298.9	327.3	356.1	384.4	412.8	441.4	470.2	498.1	526.9
10°	245.8	274.1	302.8	331.5	360.8	389.4	418.3	447.2	476.7	505.1	534.4
7.5°	248.3	277.0	305.9	334.7	364.4	393.3	422.7	451.9	481.7	511.0	540.4
5°	250.2	279.1	308.2	337.2	367.1	396.2	426.0	455.3	485.5	515.4	544.9
2.5°	251.4	280.5	309.7	338.7	368.7	398.0	428.0	457.5	488.0	518.2	547.9
0°	252.0	281.1	310.4	339.4	369.4	398.7	428.9	458.3	489.1	519.3	549.2
-2.5°	252.3	281.4	310.8	339.9	370.0	399.3	429.6	459.1	489.8	520.0	550.0
-5°	251.9	281.1	310.4	339.5	369.5	398.9	429.0	458.6	489.1	519.1	548.9
-7.5°	250.9	279.9	309.1	338.2	368.2	397.4	427.2	456.8	487.0	516.7	546.2
-10°	249.3	278.1	307.0	336.1	365.7	394.8	424.2	453.7	483.6	512.9	542.2
-12.5°	246.9	275.4	304.2	333.0	362.1	391.1	420.2	449.3	478.9	507.6	536.6
-15°	244.0	272.0	300.6	329.0	357.7	386.4	415.0	443.8	472.6	500.9	529.2
-17.5°	240.5	268.0	296.1	324.2	352.3	380.6	408.7	437.0	465.1	492.9	520.7
-20°	236.4	263.4	290.9	318.6	346.1	374.0	401.5	428.9	456.3	483.7	510.4



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 CATALOG NUMBER: ESF2ARGBWFB-WiZ-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	231.7	258.0	285.1	312.0	339.0	366.2	393.2	419.9	446.5	473.5	499.5
-25°	226.4	252.1	278.2	304.8	331.0	357.5	383.8	409.9	435.9	461.8	487.3
-27.5°	220.5	245.6	270.9	296.6	322.5	348.0	373.7	399.0	424.3	449.0	473.9
-30°	214.0	238.6	263.1	288.1	312.9	337.5	362.4	387.2	411.5	435.5	459.0
-32.5°	207.0	231.0	254.5	278.2	302.5	326.9	350.7	374.4	398.0	421.0	443.3
-35°	199.5	222.7	245.6	268.6	291.9	315.1	338.0	360.8	383.3	405.4	427.2
-37.5°	191.9	213.9	236.2	257.9	280.1	302.6	324.9	346.4	367.8	389.1	409.7
-40°	183.2	204.6	226.1	247.2	268.4	289.8	310.8	331.7	351.9	371.8	391.6
-42.5°	174.9	195.2	215.5	235.9	255.9	276.1	296.2	316.0	335.4	354.3	372.5
-45°	165.9	184.8	204.4	223.7	243.1	261.9	281.1	299.7	318.2	336.2	353.4
-47.5°	156.6	174.9	193.1	211.4	229.7	247.7	265.3	283.2	300.4	317.5	333.9
-50°	146.8	164.2	181.2	198.7	215.8	232.8	249.6	265.8	282.4	298.1	313.6
-52.5°	136.8	153.2	169.4	185.1	201.6	217.5	233.2	248.6	263.7	278.5	292.9
-55°	126.9	141.6	157.0	172.1	186.6	201.9	216.5	230.6	244.9	258.6	271.6
-57.5°	116.5	130.5	144.1	158.4	172.2	185.6	199.4	212.7	225.7	238.3	250.6
-60°	106.3	118.9	131.7	144.2	157.2	169.8	182.0	194.1	206.3	218.0	229.0
-62.5°	96.3	107.4	118.8	130.5	141.8	153.4	164.8	175.8	186.3	197.0	207.4
-65°	86.1	96.2	106.2	116.3	126.8	137.1	147.0	157.2	167.1	176.4	185.3
-67.5°	76.3	84.9	93.9	102.8	111.7	120.8	129.9	138.7	147.2	155.6	163.9
-70°	67.2	74.2	81.7	89.4	97.3	104.9	112.6	120.2	127.9	135.2	142.2
-72.5°	58.6	64.3	70.3	76.5	83.0	89.5	96.1	102.6	108.8	114.9	120.9
-75°	50.7	55.2	59.7	64.5	69.6	74.8	80.0	85.4	90.6	95.6	100.6
-77.5°	43.3	46.7	50.2	53.8	57.6	61.3	65.1	69.1	73.2	77.1	80.9
-80°	37.0	39.2	41.6	44.1	46.6	49.4	52.2	54.9	57.6	60.2	62.8
-82.5°	31.6	33.0	34.4	35.8	37.3	38.9	40.6	42.3	43.9	45.6	47.1
-85°	26.7	27.5	28.2	29.0	29.8	30.6	31.4	32.2	32.8	33.4	34.1
-87.5°	22.4	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.4	24.3	24.2
-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: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ESF2ARGBWFB-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°	11.0	10.6	10.1	9.6	9.1	8.5	8.6	8.6	8.6	8.7	8.7
85°	16.3	16.1	16.0	15.8	15.6	15.4	16.1	16.9	17.6	18.3	18.9
82.5°	25.7	26.4	27.1	27.9	28.5	29.2	30.5	31.8	33.0	34.1	35.1
80°	40.3	41.8	43.4	44.9	46.3	47.4	49.3	51.1	52.8	54.4	55.8
77.5°	57.2	59.7	62.1	64.4	66.5	68.4	70.8	73.3	75.6	77.8	79.7
75°	76.1	79.6	82.8	86.0	88.8	91.4	94.6	97.9	100.9	103.6	106.0
72.5°	96.5	100.9	105.1	109.1	113.0	116.6	120.5	124.4	128.0	131.2	134.1
70°	118.0	123.5	128.8	133.8	138.6	142.9	147.3	151.7	155.8	159.4	162.6
67.5°	140.2	146.7	152.9	158.9	164.6	169.9	174.9	179.8	184.1	187.9	191.3
65°	162.9	170.6	177.8	184.5	190.7	196.5	201.9	207.2	212.1	216.4	220.2
62.5°	185.7	194.3	202.2	209.7	216.7	222.9	228.7	234.6	240.0	244.9	249.1
60°	208.7	218.2	226.8	234.8	242.6	249.5	255.9	262.4	268.4	273.7	278.3
57.5°	231.4	241.7	251.3	260.2	268.5	276.3	283.2	290.1	296.6	302.5	307.6
55°	254.4	265.2	275.6	285.4	294.4	302.8	310.7	318.1	325.4	331.7	337.2
52.5°	276.4	288.4	299.6	310.3	320.4	329.7	338.1	346.1	353.9	360.9	366.9
50°	298.3	311.2	323.7	335.2	346.1	356.2	365.3	373.8	382.4	389.9	396.5
47.5°	320.1	333.9	347.2	359.8	371.5	382.4	392.7	402.1	411.1	419.3	426.4
45°	341.3	356.4	370.5	383.8	396.9	408.9	419.9	430.0	439.6	448.5	456.4
42.5°	362.4	377.9	393.3	408.0	421.7	434.7	446.8	458.3	468.6	477.9	485.8
40°	382.6	399.5	415.5	431.3	446.5	460.7	473.8	485.8	496.7	506.3	515.0
37.5°	402.8	420.1	437.7	454.6	470.6	485.8	499.7	512.7	524.3	534.4	543.1
35°	422.0	441.0	459.0	476.9	493.9	510.1	525.0	538.2	550.8	561.9	571.5
32.5°	441.0	460.9	479.9	498.3	516.5	533.3	549.6	564.1	577.3	588.8	599.2
30°	459.0	479.8	499.9	519.2	538.0	556.5	573.5	588.9	602.7	614.3	625.2
27.5°	476.0	497.7	519.2	539.7	559.3	578.4	595.9	611.8	626.7	639.5	650.4
25°	491.8	515.2	537.3	559.1	579.5	598.2	617.1	634.5	649.8	663.1	674.4
22.5°	506.8	531.1	554.6	577.0	598.0	618.3	637.6	655.2	671.2	685.2	697.3
20°	520.9	545.9	570.1	593.4	615.7	636.9	656.0	674.5	691.2	705.7	717.9
17.5°	533.3	559.1	584.1	608.6	631.6	653.0	673.6	692.1	709.3	724.1	737.9
15°	544.5	570.8	597.0	621.6	645.1	667.8	688.9	708.1	725.0	741.2	754.6
12.5°	554.7	581.2	608.2	633.1	657.1	680.7	702.0	721.5	739.9	755.7	769.2
10°	562.9	590.3	617.5	642.7	667.6	691.0	712.7	733.5	752.2	768.1	781.7
7.5°	569.4	597.6	625.0	650.9	676.4	699.9	721.9	742.9	761.7	778.1	792.4
5°	574.2	602.9	630.6	657.2	683.2	707.1	729.8	750.8	769.1	785.6	799.5
2.5°	577.1	606.3	634.0	661.4	687.3	711.4	734.8	755.8	774.8	791.0	805.5
0°	578.4	607.7	635.3	663.3	689.1	713.3	737.2	758.0	777.8	793.6	809.0
-2.5°	579.3	608.6	636.4	664.1	690.1	714.3	737.6	758.7	778.2	794.5	809.2
-5°	578.4	607.4	635.5	662.6	688.9	712.9	735.5	756.6	775.7	792.5	807.3
-7.5°	575.8	604.1	632.4	658.7	684.8	709.1	731.0	751.7	771.1	788.6	802.6
-10°	571.3	599.3	627.5	653.1	678.9	703.0	724.9	745.3	764.6	781.7	795.4
-12.5°	564.8	592.6	620.3	645.7	670.9	694.9	716.8	736.7	755.3	772.3	786.3
-15°	557.0	584.1	610.8	636.7	661.0	684.7	706.4	725.9	743.9	760.1	774.3
-17.5°	547.5	574.3	600.7	626.2	649.5	672.5	693.6	713.0	730.3	746.0	759.8
-20°	537.2	563.4	588.5	612.9	636.6	658.2	679.1	697.8	714.9	729.8	743.2



REPORT NUMBER: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ESF2ARGBWFB-WiZ-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	525.6	550.7	575.0	598.6	621.2	642.4	662.3	681.1	697.6	712.1	725.1
-25°	512.2	536.7	560.2	582.9	604.6	625.1	644.2	661.8	678.2	692.5	705.1
-27.5°	497.8	521.4	544.2	565.9	586.7	606.3	624.6	641.8	656.5	670.8	682.7
-30°	482.5	504.8	526.7	547.7	567.5	586.3	603.9	620.3	634.7	647.8	658.4
-32.5°	465.7	487.3	508.0	528.3	547.2	565.1	581.8	597.5	611.5	624.3	633.8
-35°	447.9	468.7	488.6	507.5	525.9	542.8	558.8	573.1	586.6	598.4	608.2
-37.5°	430.1	448.9	468.0	486.2	503.3	519.3	534.6	548.5	561.2	571.8	580.6
-40°	410.7	429.4	446.8	463.6	479.9	495.2	509.6	522.5	534.3	544.6	553.2
-42.5°	390.7	408.4	425.0	441.1	455.8	470.3	483.6	495.7	507.1	516.8	524.9
-45°	370.2	386.4	402.5	417.5	431.8	445.1	457.1	468.7	479.1	487.9	495.5
-47.5°	349.7	364.8	379.2	393.2	406.7	419.2	430.7	441.5	450.8	459.0	466.2
-50°	328.4	342.6	356.2	369.1	381.3	392.7	403.7	413.5	422.4	430.1	436.9
-52.5°	306.5	319.9	332.6	344.7	356.1	366.6	376.6	385.6	393.7	400.9	407.4
-55°	284.6	296.8	308.5	319.6	330.0	340.1	349.3	357.7	365.2	371.9	377.7
-57.5°	262.3	273.5	284.4	294.7	304.2	313.3	321.5	329.1	336.2	342.6	348.2
-60°	239.8	250.3	260.1	269.4	278.2	286.6	294.1	301.3	307.7	313.6	318.8
-62.5°	217.1	226.6	235.5	244.1	252.3	259.8	266.7	273.2	279.2	284.6	289.3
-65°	194.0	202.8	211.0	218.5	225.9	232.7	239.1	245.2	250.7	255.8	260.2
-67.5°	171.6	179.1	186.2	193.0	199.4	205.6	211.6	217.1	222.2	226.7	230.9
-70°	148.9	155.6	162.0	168.1	173.7	178.7	183.8	188.8	193.4	197.6	201.3
-72.5°	126.8	132.5	137.9	143.0	147.8	152.3	156.8	161.3	165.4	169.1	172.4
-75°	105.3	110.0	114.4	118.6	122.6	126.4	130.3	134.1	137.6	140.8	143.7
-77.5°	84.7	88.4	92.0	95.4	98.6	101.5	104.8	107.9	110.8	113.5	115.9
-80°	65.4	68.0	70.6	73.2	75.6	77.9	80.4	82.9	85.2	87.4	89.4
-82.5°	48.7	50.2	51.7	53.2	54.6	56.0	57.9	59.7	61.4	62.9	64.4
-85°	34.7	35.4	36.1	36.7	37.4	38.0	39.0	40.0	41.0	41.9	42.7
-87.5°	24.2	24.1	24.0	23.9	23.8	23.7	24.1	24.5	24.9	25.2	25.5
-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: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ESF2ARGBWFB-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°	8.7	8.8	8.8	8.8	10.6	12.4	14.2	16.0	17.7	19.4	21.1
85°	19.5	20.0	20.5	21.0	22.8	24.5	26.1	27.7	29.3	30.8	32.2
82.5°	36.0	36.8	37.5	38.1	40.0	41.8	43.5	45.1	46.6	47.9	49.2
80°	57.1	58.1	59.1	59.8	61.8	63.6	65.2	66.6	67.8	68.9	69.7
77.5°	81.4	82.8	84.1	85.0	87.0	88.7	90.1	91.3	92.3	93.0	93.5
75°	108.1	109.9	111.3	112.5	114.5	116.1	117.4	118.4	119.0	119.3	119.3
72.5°	136.5	138.6	140.2	141.5	143.4	144.9	146.0	146.7	147.0	146.9	146.5
70°	165.4	167.7	169.5	170.8	172.6	174.0	174.9	175.3	175.4	175.0	174.4
67.5°	194.2	196.5	198.3	199.6	201.5	202.8	203.6	203.9	203.7	202.9	201.7
65°	223.4	226.0	228.1	229.5	231.4	232.6	233.3	233.3	232.8	231.6	229.8
62.5°	252.6	255.4	257.5	259.0	260.9	262.1	262.7	262.6	261.7	260.2	258.1
60°	282.2	285.4	287.8	289.5	291.3	292.4	292.7	292.2	291.2	289.4	286.6
57.5°	311.9	315.3	317.9	319.7	321.5	322.6	322.8	322.1	320.7	318.3	315.2
55°	341.9	345.6	348.5	350.4	352.2	353.1	353.0	352.0	350.0	347.4	343.7
52.5°	371.9	376.1	379.3	381.4	383.2	383.9	383.7	382.4	380.2	376.5	372.5
50°	402.0	406.5	409.9	412.1	413.7	414.1	413.4	411.8	409.2	405.7	401.2
47.5°	432.5	437.4	441.1	443.5	445.0	445.1	444.1	442.0	438.7	434.2	428.8
45°	463.1	468.0	471.7	474.1	475.7	476.1	475.1	472.7	468.9	463.7	457.4
42.5°	492.4	497.7	501.5	503.9	505.5	505.7	504.5	501.9	497.8	492.5	486.3
40°	522.1	527.8	531.9	534.5	535.9	535.8	534.3	531.3	526.8	521.1	514.0
37.5°	550.7	556.8	561.0	563.6	565.1	565.0	563.1	559.7	554.8	548.6	541.3
35°	579.3	585.3	589.7	592.3	593.8	593.4	591.5	588.0	582.7	575.7	567.3
32.5°	607.5	613.9	618.4	621.2	622.6	622.2	619.7	615.5	609.5	602.1	593.6
30°	634.2	641.2	646.2	649.1	650.2	649.4	646.5	641.5	635.4	628.0	618.6
27.5°	659.8	667.1	671.9	674.7	676.1	675.6	672.7	667.0	660.6	652.3	642.3
25°	683.7	691.4	696.7	699.5	700.6	699.6	696.5	691.1	684.9	675.9	665.4
22.5°	706.9	714.5	719.9	722.9	724.3	723.3	720.1	714.2	707.1	698.0	686.8
20°	728.2	736.7	742.0	744.6	745.8	744.6	741.3	736.2	728.6	718.6	707.0
17.5°	748.7	756.1	761.4	764.3	765.3	763.9	760.6	755.1	747.7	737.7	725.3
15°	765.1	773.2	778.9	781.8	783.0	781.4	777.7	772.4	764.4	754.3	741.2
12.5°	780.4	788.6	794.4	797.5	798.9	797.1	794.0	788.0	779.8	768.3	755.0
10°	793.4	801.8	808.1	810.7	812.5	811.6	808.0	801.8	791.9	781.0	766.9
7.5°	803.7	813.2	819.4	821.8	824.5	823.5	819.6	812.3	802.0	790.8	777.1
5°	812.1	821.4	827.9	832.0	833.5	833.1	827.2	820.1	810.5	797.2	784.1
2.5°	817.5	826.8	834.0	836.9	839.8	837.5	832.0	825.4	815.8	802.6	788.6
0°	821.1	829.7	836.0	840.8	841.9	840.3	835.4	828.2	818.7	805.6	790.8
-2.5°	821.2	830.1	837.2	839.7	841.8	839.5	835.3	827.9	818.1	805.4	790.6
-5°	818.7	827.4	834.6	838.1	839.5	837.9	833.0	825.5	815.6	802.9	788.5
-7.5°	813.8	823.5	830.8	833.5	835.1	833.1	829.0	820.6	810.5	798.4	783.9
-10°	807.2	816.3	822.4	825.9	827.4	826.0	821.0	813.8	803.8	791.3	777.0
-12.5°	797.4	806.8	812.7	816.4	817.5	816.2	811.3	804.1	794.2	781.7	767.4
-15°	786.0	793.9	799.6	803.0	804.3	803.3	798.8	791.4	781.7	770.2	756.0
-17.5°	771.2	779.5	785.4	788.7	789.4	787.9	784.2	776.9	767.5	756.2	742.6
-20°	754.2	761.7	767.3	770.5	771.5	770.2	766.7	760.1	751.2	739.7	726.8

Classified

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

Scaled Data Report



REPORT NUMBER: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: ESF2ARGBWFB-WiZ-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	734.9	742.6	748.1	751.5	752.2	750.8	747.5	741.2	732.1	721.6	709.5
-25°	714.2	721.5	726.6	729.7	730.5	729.2	725.8	720.5	712.1	702.1	690.2
-27.5°	692.0	699.0	704.0	707.2	707.9	706.6	703.3	698.0	690.4	680.7	669.5
-30°	667.3	674.5	679.6	682.8	683.5	682.2	679.1	674.0	667.3	657.9	647.1
-32.5°	642.1	648.8	653.7	656.8	657.5	656.5	653.5	648.8	642.7	634.6	624.3
-35°	616.1	622.4	627.1	630.1	630.8	629.9	627.4	623.2	617.3	609.2	599.6
-37.5°	588.3	594.6	599.1	602.0	602.8	602.0	599.5	595.6	590.4	583.3	573.9
-40°	560.3	566.0	570.3	573.0	573.9	573.2	571.0	567.4	562.6	556.5	548.2
-42.5°	531.7	537.3	541.4	544.2	545.1	544.6	542.8	539.3	534.6	528.9	521.1
-45°	502.0	507.5	511.6	514.4	515.3	514.7	512.9	509.8	505.6	500.3	493.4
-47.5°	472.4	477.4	481.2	483.7	484.7	484.4	483.0	480.5	476.7	471.8	465.9
-50°	442.7	447.4	451.0	453.4	454.4	454.3	453.2	450.9	447.6	443.5	438.1
-52.5°	412.8	417.2	420.5	422.9	424.0	424.1	423.2	421.3	418.4	414.5	409.9
-55°	382.8	386.9	390.1	392.4	393.6	393.9	393.2	391.6	389.1	385.8	381.5
-57.5°	352.9	356.7	359.7	361.9	363.1	363.5	363.0	361.7	359.7	356.9	353.3
-60°	323.2	326.8	329.7	331.8	333.1	333.6	333.3	332.3	330.5	328.0	325.0
-62.5°	293.5	296.9	299.7	301.8	303.0	303.6	303.4	302.6	301.2	299.2	296.6
-65°	263.9	267.1	269.6	271.6	272.9	273.7	273.8	273.3	272.2	270.3	268.0
-67.5°	234.4	237.5	239.9	241.9	243.2	244.0	244.2	244.0	243.2	241.7	239.8
-70°	204.6	207.3	209.7	211.5	212.9	213.9	214.3	214.4	213.9	213.0	211.7
-72.5°	175.3	177.7	179.8	181.5	183.0	184.0	184.7	184.9	184.8	184.3	183.4
-75°	146.2	148.4	150.3	151.8	153.4	154.6	155.5	156.0	156.3	156.2	155.7
-77.5°	118.1	120.0	121.7	123.1	124.7	126.0	127.0	127.7	128.2	128.4	128.2
-80°	91.1	92.7	94.1	95.3	96.8	98.1	99.2	100.1	100.8	101.3	101.5
-82.5°	65.7	66.9	68.0	68.9	70.5	71.9	73.2	74.3	75.3	76.1	76.8
-85°	43.5	44.1	44.8	45.3	46.8	48.3	49.7	51.0	52.2	53.3	54.4
-87.5°	25.8	26.1	26.4	26.6	28.1	29.5	30.9	32.3	33.6	34.9	36.2
-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: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ESF2ARGWFB-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°	22.8	24.5	26.5	28.5	30.4	32.4	34.3	36.2	38.0	39.9	41.7
85°	33.6	35.0	36.8	38.6	40.3	42.0	43.7	45.3	46.9	48.5	50.0
82.5°	50.3	51.4	52.7	53.8	54.9	56.0	57.0	57.9	58.7	59.5	60.1
80°	70.4	71.0	71.8	72.4	72.9	73.3	73.5	73.7	73.8	73.8	73.5
77.5°	93.8	93.8	94.0	93.8	93.6	93.1	92.5	91.8	90.9	89.8	88.5
75°	119.0	118.5	117.9	117.1	116.1	114.9	113.4	111.7	109.8	107.7	105.3
72.5°	145.6	144.6	143.4	141.9	140.1	138.0	135.5	132.8	129.9	126.9	123.4
70°	173.0	171.4	169.6	167.4	164.7	161.8	158.4	154.8	150.9	146.9	142.0
67.5°	200.0	197.9	195.5	192.8	189.6	186.0	181.8	177.4	172.5	167.3	161.3
65°	227.4	224.9	221.9	218.5	214.5	210.1	205.2	199.8	194.2	187.8	181.0
62.5°	255.5	252.5	248.8	244.5	239.5	234.2	228.6	222.5	215.8	208.6	200.5
60°	283.3	279.5	275.2	270.2	264.8	258.7	252.2	244.8	237.2	229.1	220.0
57.5°	311.4	307.0	302.1	296.2	289.7	282.9	275.5	267.3	258.8	249.2	239.3
55°	339.4	334.5	328.7	322.1	314.9	307.1	298.4	289.6	280.1	269.5	258.7
52.5°	367.6	361.8	355.3	347.8	339.9	331.0	321.7	311.8	300.7	289.6	277.5
50°	396.0	389.4	381.8	373.7	364.6	355.0	344.6	333.6	321.8	309.1	296.3
47.5°	422.8	416.1	408.3	399.5	389.2	378.8	367.3	355.0	342.0	328.6	314.6
45°	450.8	442.7	433.9	424.2	413.8	402.4	389.8	376.3	362.2	347.7	332.6
42.5°	478.7	469.6	459.7	449.1	437.4	425.0	411.7	397.1	382.2	366.3	350.2
40°	505.4	496.0	485.5	473.5	461.0	447.6	432.9	417.5	401.3	384.7	367.2
37.5°	532.1	521.9	510.0	497.7	484.2	469.2	453.7	437.2	420.1	402.3	384.1
35°	557.5	546.9	534.4	520.9	506.1	490.7	473.7	456.4	438.1	419.5	400.0
32.5°	583.0	570.8	557.7	543.5	527.9	510.8	493.5	474.7	455.6	435.8	415.5
30°	607.1	594.6	580.4	564.7	548.4	530.9	511.8	492.7	472.5	451.3	430.2
27.5°	630.8	617.2	602.4	585.6	567.6	549.3	530.0	509.3	488.1	466.4	444.1
25°	652.8	638.9	622.7	605.3	586.5	566.6	546.5	525.2	503.4	480.5	457.0
22.5°	674.0	658.7	641.8	623.5	603.9	583.3	562.0	540.5	517.0	493.4	469.1
20°	692.7	677.0	659.3	640.3	620.3	598.9	576.1	553.7	530.0	505.5	480.0
17.5°	710.5	693.5	675.3	655.6	634.9	613.0	589.7	565.6	541.7	515.8	489.7
15°	726.0	708.9	689.5	669.5	647.7	625.6	601.5	576.1	551.4	525.1	498.3
12.5°	739.6	721.6	702.5	681.1	659.1	635.8	611.3	585.7	559.8	533.3	506.4
10°	750.9	733.6	713.5	691.2	668.5	644.5	619.9	593.8	567.1	540.6	512.9
7.5°	759.9	741.9	721.6	699.7	676.4	651.9	626.6	600.5	573.4	546.2	518.1
5°	767.0	748.4	727.7	705.8	682.2	657.7	631.7	605.7	578.1	550.6	522.0
2.5°	771.7	752.9	732.4	710.1	686.3	661.6	635.1	609.3	581.3	553.7	524.7
0°	774.3	755.4	734.8	712.5	688.7	663.9	637.0	611.4	583.2	555.4	526.3
-2.5°	774.1	755.0	734.4	712.2	688.6	663.7	637.0	611.2	583.1	555.2	526.2
-5°	771.6	752.6	732.1	710.1	686.6	661.9	635.4	609.4	581.6	553.6	524.9
-7.5°	766.9	748.3	728.2	706.2	682.7	658.2	632.1	606.0	578.6	550.7	522.3
-10°	759.9	742.0	722.1	700.6	677.1	652.5	627.4	601.2	574.0	546.4	518.4
-12.5°	751.1	732.9	713.7	692.8	669.7	645.6	621.1	595.0	568.3	540.9	513.3
-15°	739.9	722.4	703.5	682.4	660.6	637.0	613.0	587.2	561.2	534.2	506.9
-17.5°	726.9	710.0	691.1	670.8	649.1	626.9	603.1	578.1	552.5	526.1	499.3
-20°	712.3	695.6	677.2	657.3	636.5	614.7	591.5	567.6	542.8	517.0	490.7

Classified

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

Scaled Data Report



REPORT NUMBER: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: ESF2ARGBWFB-WiZ-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	695.5	679.4	661.6	642.5	622.4	601.0	578.4	555.2	531.2	506.8	481.2
-25°	676.7	661.6	644.6	626.5	606.7	586.0	564.4	541.9	518.5	494.7	470.4
-27.5°	656.3	642.1	626.5	608.6	589.8	569.6	548.7	527.2	504.9	481.9	458.7
-30°	635.4	621.3	606.3	589.7	571.3	552.2	532.4	511.6	490.1	468.3	446.2
-32.5°	612.3	599.4	585.0	569.1	552.0	534.0	514.8	495.1	474.8	454.0	432.7
-35°	588.6	576.1	562.6	547.7	532.0	514.6	496.7	478.1	458.6	438.7	418.4
-37.5°	563.7	552.2	539.4	525.6	510.6	494.8	477.9	460.0	441.6	422.8	403.5
-40°	538.3	527.5	515.1	502.5	488.5	474.3	458.2	441.4	424.1	406.2	387.6
-42.5°	511.8	501.9	490.9	479.0	466.4	452.6	437.9	422.2	405.8	388.7	371.2
-45°	485.4	476.1	466.1	455.0	443.1	430.4	417.1	402.4	386.8	370.9	354.2
-47.5°	458.6	450.2	440.7	430.6	419.6	407.9	395.4	382.0	367.5	352.4	336.9
-50°	431.4	423.6	415.1	405.9	395.7	384.7	373.2	361.2	347.7	333.5	318.8
-52.5°	404.3	397.0	389.2	380.6	371.3	361.5	351.0	339.8	327.4	314.3	300.7
-55°	376.2	369.9	363.1	355.4	347.0	337.9	328.1	317.8	306.9	294.8	282.4
-57.5°	348.8	343.2	336.8	329.9	322.2	313.9	305.2	295.8	286.1	275.1	263.7
-60°	320.9	316.0	310.3	304.2	297.4	290.0	282.1	273.7	265.0	255.1	244.6
-62.5°	293.4	289.1	284.0	278.4	272.2	265.8	258.9	251.4	243.5	234.9	225.3
-65°	265.2	261.5	257.3	252.7	247.3	241.6	235.5	229.0	221.7	214.1	205.6
-67.5°	237.6	234.5	230.8	226.8	222.4	217.3	211.7	206.0	199.9	193.5	186.0
-70°	209.9	207.3	204.1	200.7	197.0	192.8	188.3	183.4	178.1	173.0	166.7
-72.5°	182.2	180.5	178.1	175.2	172.0	168.8	165.1	161.1	156.9	152.4	147.3
-75°	154.9	153.7	151.9	149.9	147.5	144.9	141.9	138.8	135.5	132.2	128.4
-77.5°	127.8	127.1	125.9	124.6	123.0	121.2	119.3	117.3	115.1	112.8	110.1
-80°	101.7	101.6	101.3	100.7	99.9	99.0	98.0	96.9	95.7	94.5	93.0
-82.5°	77.4	77.8	78.1	78.2	78.2	78.2	78.0	77.7	77.4	77.0	76.5
-85°	55.3	56.2	57.1	57.9	58.7	59.5	60.2	60.9	61.6	62.2	62.7
-87.5°	37.4	38.6	40.0	41.3	42.6	44.0	45.2	46.5	47.8	49.0	50.2
-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: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ESF2ARGBWFB-WiZ-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°	42.9	44.2	45.4	46.6	47.8	48.9	50.1	51.2	52.3	52.5	52.6
85°	50.9	51.7	52.5	53.3	54.1	54.8	55.5	56.1	56.7	56.5	56.2
82.5°	60.3	60.5	60.7	60.8	60.9	61.1	61.2	61.5	61.5	60.6	59.8
80°	72.8	72.0	71.3	70.5	69.6	68.7	67.9	67.1	66.4	64.9	63.6
77.5°	86.9	85.1	83.4	81.6	79.7	77.9	76.1	74.3	72.3	69.8	67.5
75°	102.6	99.7	96.7	93.8	90.8	87.9	85.0	82.1	79.2	75.6	72.1
72.5°	119.4	115.3	111.2	107.0	102.8	98.7	94.5	90.5	86.3	81.7	77.3
70°	137.0	131.9	126.5	121.0	115.5	110.1	104.6	99.5	93.9	88.2	82.7
67.5°	155.1	148.7	142.2	135.7	128.9	122.1	115.4	108.8	102.0	94.9	88.3
65°	173.6	165.9	158.2	150.2	142.5	134.6	126.5	118.5	110.1	102.1	94.2
62.5°	192.0	183.4	174.5	165.3	156.1	147.0	137.9	128.5	118.7	109.1	100.1
60°	210.6	200.8	190.7	180.4	170.0	159.5	149.2	138.6	127.5	116.6	106.3
57.5°	228.9	218.1	207.0	195.4	183.8	172.1	160.3	148.5	136.2	124.1	112.4
55°	247.0	235.2	222.9	210.4	197.5	184.6	171.7	158.1	145.0	131.6	118.7
52.5°	265.2	252.0	238.8	225.1	211.2	197.0	182.9	168.1	153.6	139.2	124.9
50°	282.8	268.9	254.3	239.5	224.5	209.3	193.7	177.8	161.9	146.6	131.1
47.5°	300.1	285.2	269.8	253.8	237.5	221.2	204.3	187.3	170.3	153.7	137.3
45°	317.1	301.1	284.7	267.9	250.5	232.8	214.8	196.6	178.5	160.6	143.4
42.5°	333.5	316.5	299.3	281.3	262.9	243.9	224.8	205.6	186.5	167.6	149.2
40°	349.7	331.4	313.0	294.4	275.1	254.8	234.5	214.3	194.1	174.2	154.7
37.5°	365.1	346.2	326.6	306.9	286.4	265.2	243.8	222.7	201.6	180.7	160.1
35°	380.3	360.0	339.6	318.5	297.1	275.3	252.8	230.7	208.7	186.8	165.3
32.5°	394.8	373.3	352.2	329.7	307.4	284.6	261.4	238.3	215.4	192.6	170.3
30°	408.4	386.3	363.3	340.2	316.8	293.4	269.6	245.5	221.8	198.2	175.0
27.5°	421.4	398.1	374.0	350.4	326.0	301.7	277.3	252.2	227.8	203.5	179.4
25°	433.3	408.8	384.2	359.4	334.3	309.4	284.3	258.5	233.4	208.4	183.5
22.5°	444.3	419.0	393.7	367.7	342.2	316.4	290.6	264.5	238.5	212.7	187.4
20°	454.2	428.4	402.1	375.6	349.6	322.8	296.4	269.8	243.2	216.8	190.8
17.5°	463.3	436.7	409.6	382.7	356.0	328.7	301.7	274.7	247.4	220.4	193.9
15°	471.5	444.3	416.8	389.2	361.6	333.9	306.3	279.0	251.0	223.7	196.8
12.5°	478.5	450.8	422.8	394.8	366.4	338.4	310.4	282.7	254.2	226.6	199.2
10°	484.3	456.4	428.0	399.3	370.5	342.2	313.9	285.9	256.9	229.0	201.3
7.5°	489.2	460.9	432.1	403.0	374.0	345.5	316.7	288.3	259.2	231.1	203.1
5°	493.0	464.4	435.3	405.9	376.6	348.0	318.9	290.3	260.9	232.7	204.4
2.5°	495.6	466.9	437.5	407.9	378.5	349.8	320.4	291.6	262.1	233.8	205.4
0°	497.1	468.3	438.8	409.0	379.5	350.8	321.3	292.4	262.8	234.4	205.9
-2.5°	496.9	468.1	438.7	409.0	379.5	350.7	321.2	292.3	262.8	234.3	205.9
-5°	495.6	466.9	437.6	408.0	378.6	349.8	320.4	291.7	262.2	233.8	205.4
-7.5°	493.1	464.6	435.6	406.2	377.0	348.1	319.0	290.5	261.1	232.8	204.6
-10°	489.5	461.3	432.6	403.6	374.5	345.8	316.9	288.7	259.6	231.4	203.4
-12.5°	484.9	456.9	428.7	400.2	371.3	342.8	314.2	286.2	257.5	229.5	201.8
-15°	479.2	451.7	423.7	395.7	367.4	339.1	310.8	283.2	254.9	227.2	199.8
-17.5°	472.3	445.3	417.8	390.4	362.6	334.6	307.0	279.6	251.9	224.4	197.4
-20°	464.4	438.0	411.3	384.2	357.0	329.4	302.4	275.5	248.4	221.3	194.6

Classified

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Scaled Data Report



REPORT NUMBER: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: ESF2ARGBWFB-WiZ-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	455.7	430.1	404.0	377.3	350.7	323.8	297.4	270.8	244.2	217.8	191.7
-25°	446.1	421.0	395.7	369.7	343.7	317.4	291.8	265.5	239.7	214.0	188.4
-27.5°	435.4	411.4	386.5	361.2	335.8	310.6	285.5	259.9	234.8	209.6	184.6
-30°	423.6	400.8	376.6	352.1	327.3	303.0	278.7	253.8	229.3	204.9	180.7
-32.5°	411.1	388.8	365.9	342.4	318.5	295.0	271.2	247.4	223.4	199.7	176.4
-35°	397.7	376.1	354.1	331.6	309.2	286.5	263.3	240.3	217.3	194.3	171.8
-37.5°	383.3	362.7	342.0	320.5	299.1	277.4	255.0	232.9	210.7	188.6	166.9
-40°	368.5	349.0	328.7	309.0	288.7	267.6	246.4	225.0	203.8	182.5	161.8
-42.5°	353.0	334.4	315.6	296.6	277.5	257.4	237.3	216.8	196.3	176.3	156.5
-45°	337.2	319.4	301.8	284.0	265.6	247.1	227.7	208.3	188.9	169.7	150.9
-47.5°	320.6	304.3	287.7	270.7	253.4	236.0	217.8	199.3	181.0	163.0	145.1
-50°	304.0	288.7	273.1	257.0	240.9	224.4	207.7	190.3	173.1	156.0	139.2
-52.5°	287.0	272.7	258.0	243.1	228.0	212.6	197.1	180.9	164.9	148.8	133.2
-55°	269.6	256.2	242.7	228.9	214.7	200.4	186.2	171.4	156.4	141.5	127.0
-57.5°	251.8	239.6	227.1	214.2	201.2	188.1	175.2	161.8	147.8	134.2	120.9
-60°	233.9	222.5	211.0	199.4	187.5	175.8	164.0	151.8	139.1	126.7	114.5
-62.5°	215.3	205.2	194.9	184.3	173.9	163.4	152.5	141.9	130.5	119.2	108.1
-65°	196.9	187.9	178.7	169.5	160.2	150.6	141.2	131.9	121.8	111.6	101.9
-67.5°	178.3	170.7	162.8	154.5	146.2	138.1	129.9	121.9	113.0	104.1	95.8
-70°	160.2	153.4	146.4	139.6	132.7	125.7	118.8	111.8	104.4	97.1	89.7
-72.5°	141.8	136.3	130.7	125.0	119.3	113.5	107.7	102.1	96.3	89.9	83.8
-75°	124.1	119.7	115.3	110.6	106.1	101.6	97.3	92.8	88.1	83.0	78.4
-77.5°	106.8	103.7	100.4	97.1	93.8	90.4	87.0	83.7	80.6	76.8	73.0
-80°	90.8	88.6	86.3	84.0	81.7	79.6	77.7	75.8	73.7	70.8	67.9
-82.5°	75.5	74.4	73.4	72.4	71.3	70.3	69.2	68.1	67.0	65.2	63.5
-85°	62.5	62.3	62.1	61.9	61.7	61.5	61.4	61.2	61.1	60.2	59.3
-87.5°	50.8	51.4	52.0	52.7	53.3	53.9	54.6	55.2	55.9	55.6	55.4
-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: P694453 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: ESF2ARGBWFB-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°	52.8	52.9	46.3	35.2	23.8	12.0	0.0
85°	55.9	55.5	55.1	54.7	47.6	24.1	0.0
82.5°	58.9	58.1	57.2	56.3	55.4	36.1	0.0
80°	62.1	60.7	59.3	57.9	56.4	48.0	0.0
77.5°	65.4	63.3	61.4	59.5	57.4	55.5	0.0
75°	68.9	66.1	63.5	61.0	58.5	56.0	0.0
72.5°	73.0	69.0	65.6	62.5	59.6	56.5	0.0
70°	77.5	72.4	67.8	64.1	60.6	57.0	0.0
67.5°	82.0	76.0	70.3	65.7	61.6	57.5	0.0
65°	86.6	79.7	73.0	67.3	62.6	58.0	0.0
62.5°	91.5	83.4	75.8	68.9	63.6	58.5	0.0
60°	96.4	87.2	78.7	70.7	64.5	59.0	0.0
57.5°	101.3	91.0	81.5	72.6	65.5	59.5	0.0
55°	106.5	95.0	84.3	74.6	66.4	59.9	0.0
52.5°	111.4	98.8	87.1	76.6	67.4	60.4	0.0
50°	116.4	102.6	89.9	78.5	68.3	60.8	0.0
47.5°	121.4	106.5	92.7	80.4	69.3	61.3	0.0
45°	126.3	110.3	95.5	82.2	70.2	61.7	0.0
42.5°	131.1	113.9	98.2	84.0	71.3	62.1	0.0
40°	135.7	117.6	100.8	85.7	72.3	62.4	0.0
37.5°	140.2	121.0	103.3	87.4	73.2	62.8	0.0
35°	144.6	124.4	105.8	89.0	74.2	63.1	0.0
32.5°	148.7	127.6	108.2	90.5	75.2	63.5	0.0
30°	152.5	130.7	110.4	92.0	76.1	63.7	0.0
27.5°	156.1	133.6	112.5	93.5	76.9	64.0	0.0
25°	159.4	136.3	114.5	94.8	77.7	64.3	0.0
22.5°	162.6	138.7	116.3	96.1	78.4	64.5	0.0
20°	165.5	141.1	118.0	97.2	79.1	64.7	0.0
17.5°	168.1	143.2	119.6	98.2	79.7	64.9	0.0
15°	170.4	145.0	120.9	99.1	80.2	65.1	0.0
12.5°	172.5	146.7	122.1	99.9	80.6	65.3	0.0
10°	174.2	148.0	123.1	100.6	81.0	65.4	0.0
7.5°	175.6	149.2	123.9	101.2	81.4	65.5	0.0
5°	176.7	150.0	124.6	101.6	81.6	65.6	0.0
2.5°	177.4	150.6	125.0	101.9	81.8	65.7	0.0
0°	177.9	151.0	125.3	102.1	81.9	65.7	0.0
-2.5°	177.9	151.0	125.3	102.1	81.9	65.7	0.0
-5°	177.5	150.7	125.1	101.9	81.8	65.6	0.0
-7.5°	176.8	150.2	124.7	101.6	81.6	65.6	0.0
-10°	175.9	149.4	124.1	101.2	81.4	65.5	0.0
-12.5°	174.6	148.3	123.4	100.7	81.0	65.4	0.0
-15°	172.9	147.0	122.4	100.1	80.7	65.3	0.0
-17.5°	171.0	145.5	121.3	99.3	80.2	65.1	0.0
-20°	168.8	143.7	120.0	98.4	79.7	64.9	0.0

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CATALOG NUMBER: ESF2ARGBWFB-WiZ-4000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	166.3	141.7	118.5	97.4	79.1	64.7	0.0
-25°	163.5	139.5	116.9	96.3	78.5	64.5	0.0
-27.5°	160.4	137.0	115.1	95.1	77.8	64.3	0.0
-30°	157.2	134.4	113.2	93.7	77.0	64.0	0.0
-32.5°	153.6	131.7	111.1	92.4	76.1	63.7	0.0
-35°	149.8	128.6	108.8	90.9	75.2	63.4	0.0
-37.5°	145.8	125.5	106.4	89.3	74.3	63.1	0.0
-40°	141.5	122.2	104.0	87.7	73.3	62.7	0.0
-42.5°	137.1	118.8	101.5	86.0	72.3	62.4	0.0
-45°	132.6	115.2	99.0	84.3	71.3	62.0	0.0
-47.5°	127.9	111.4	96.2	82.5	70.4	61.6	0.0
-50°	123.1	107.5	93.4	80.7	69.4	61.2	0.0
-52.5°	118.1	103.7	90.6	78.8	68.4	60.7	0.0
-55°	113.1	99.9	87.7	76.8	67.4	60.3	0.0
-57.5°	107.9	96.0	84.8	74.8	66.5	59.8	0.0
-60°	102.8	92.0	82.0	72.8	65.5	59.3	0.0
-62.5°	97.9	88.0	79.2	70.9	64.5	58.9	0.0
-65°	92.8	84.1	76.3	69.1	63.5	58.4	0.0
-67.5°	87.7	80.4	73.4	67.4	62.5	57.9	0.0
-70°	82.9	76.6	70.6	65.7	61.4	57.4	0.0
-72.5°	78.3	72.9	68.0	64.1	60.4	56.9	0.0
-75°	73.7	69.4	65.7	62.4	59.3	56.4	0.0
-77.5°	69.4	66.2	63.4	60.8	58.2	55.9	0.0
-80°	65.5	63.2	61.1	59.1	57.2	48.3	0.0
-82.5°	61.8	60.3	58.9	57.5	56.1	36.3	0.0
-85°	58.4	57.5	56.7	55.9	48.2	24.2	0.0
-87.5°	55.1	54.9	47.7	36.0	24.1	12.1	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)