

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



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4E-740-U-VWR-VSR-XX**

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-08
Report Number: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GFLD-SA4E-740-U-VWR-VSR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N7 WITH VISOR
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

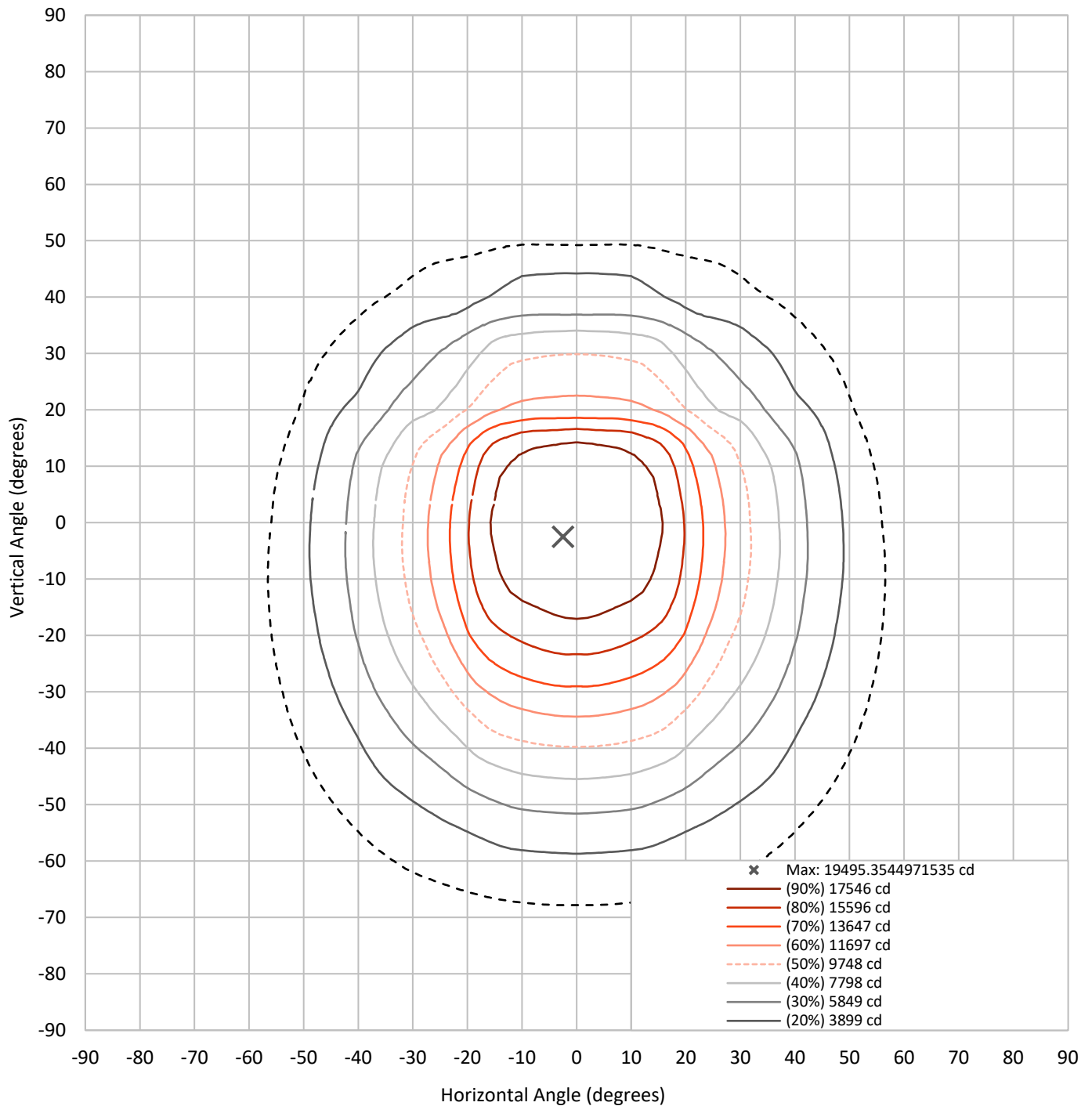
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	26017.2 lumens	Max Intensity:	19495.4 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	101.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	63.9°H x 69.6°V	Field Angle (10%):	112.5°H x 117.1°V
Beam Lumens:	15052.7 lumens	Field Lumens:	24688.7 lumens
Beam Efficiency:	57.9%	Field Efficiency:	94.9%
Input Watts (W):	255.9		
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





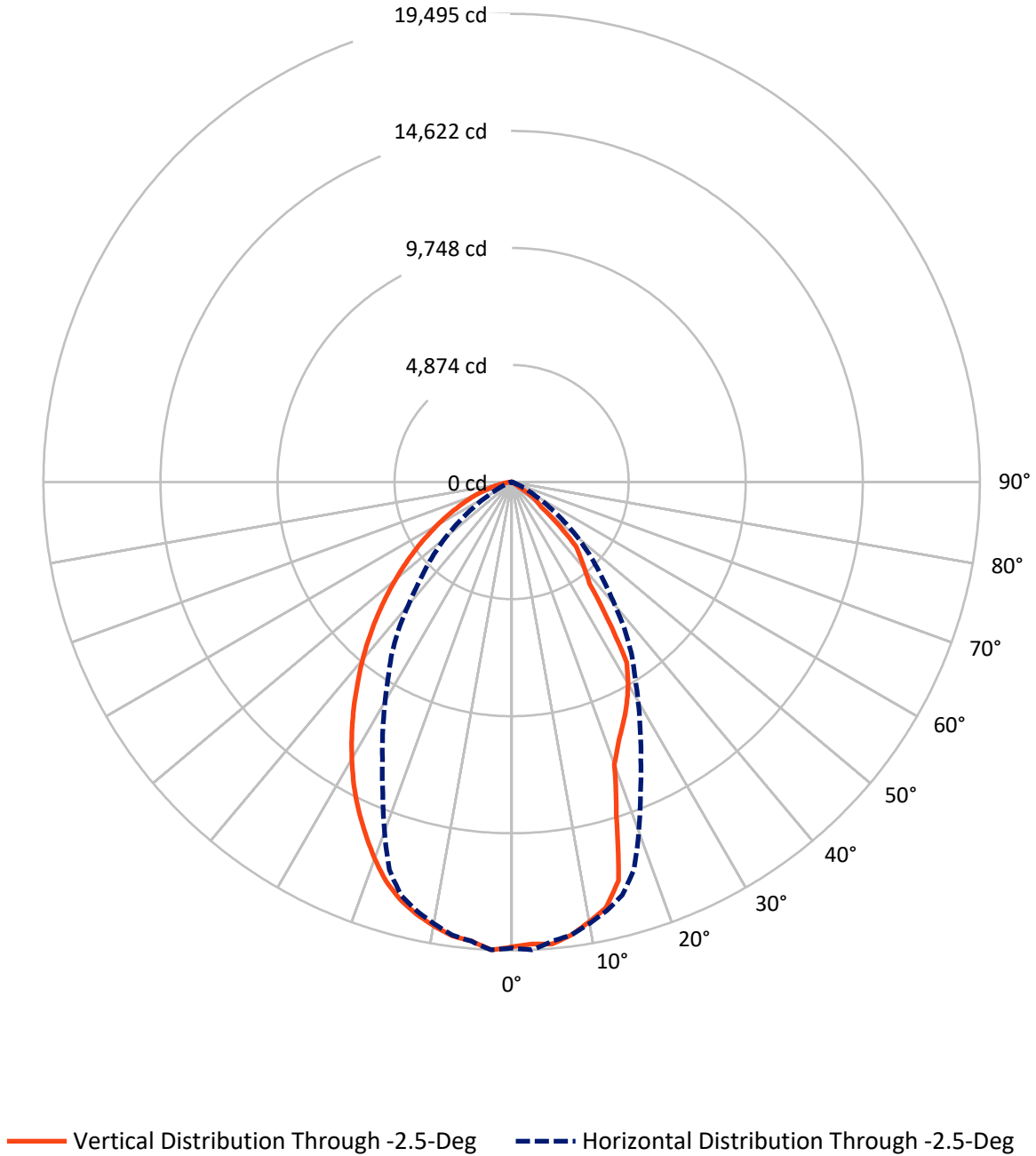
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Lumen Table

90																			
80	0.1	0.2		0.2		0.3		0.3		0.3		0.2		0.2		0.1			
70																			
60	0.2	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.2			
50		0.2	0.5	2.4	7.1	13.7	20.3	25.3	25.3	20.3	13.7	7.1	2.4	0.5	0.2				
40	0.4	0.5	2.9	13.3	32.3	58.1	85.8	105.0	105.0	85.8	58.1	32.3	13.3	2.9	0.5	0.4			
30		1.3	9.7	33.8	75.4	122.3	183.3	214.3	214.3	183.3	122.3	75.4	33.8	9.7	1.3				
20	0.8	2.9	18.7	59.9	121.5	192.6	288.9	332.1	332.1	288.9	192.6	121.5	59.9	18.7	2.9	0.8			
10		4.9	28.7	88.6	175.0	288.0	428.8	491.8	491.8	428.8	288.0	175.0	88.6	28.7	4.9				
0	1.3	6.7	37.3	105.2	209.3	344.2	506.4	574.6	574.6	506.4	344.2	209.3	105.2	37.3	6.7	1.3			
-10		8.0	41.1	109.3	214.9	352.1	510.1	576.8	576.8	510.1	352.1	214.9	109.3	41.1	8.0				
-20	1.7	8.4	40.2	103.4	202.7	329.7	473.4	534.9	534.9	473.4	329.7	202.7	103.4	40.2	8.4	1.7			
-30		7.6	35.2	90.2	175.1	280.3	396.9	449.5	449.5	396.9	280.3	175.1	90.2	35.2	7.6				
-40	1.6	6.4	28.0	71.0	137.7	216.2	303.1	343.2	343.2	303.1	216.2	137.7	71.0	28.0	6.4	1.6			
-50		5.1	20.7	50.6	98.7	152.0	209.8	238.1	238.1	209.8	152.0	98.7	50.6	20.7	5.1				
-60	1.2	3.8	13.6	32.5	61.3	94.4	128.2	146.2	146.2	128.2	94.4	61.3	32.5	13.6	3.8	1.2			
-70		2.7	8.2	19.0	33.7	50.1	66.3	75.1	75.1	66.3	50.1	33.7	19.0	8.2	2.7				
-80	0.5	6.1		28.0		61.2		68.3		61.2		28.0		6.1		0.5			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

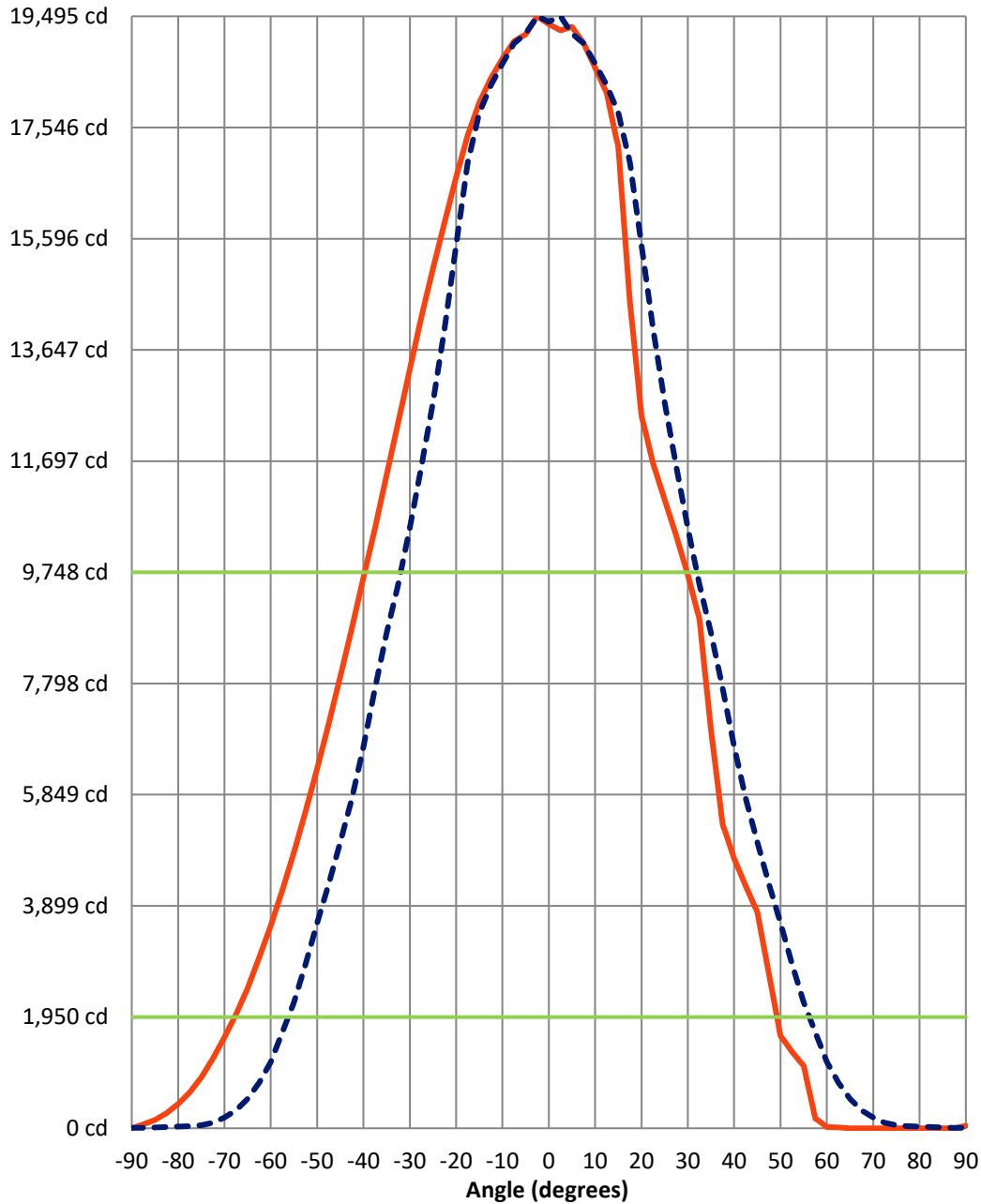
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 63.9°
 V Angle: 69.6°
 Lumens: 15052.7
 Efficiency: 57.9%

Field:
 H Angle: 112.5°
 V Angle: 117.1°
 Lumens: 24688.7
 Efficiency: 94.9%

Spill:
 Lumens: 1328.5
 Efficiency: 5.1%

— Vertical Distribution through -2.5-Deg
 - - - Horizontal Distribution through -2.5-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°	7.3	7.3	7.3	9.1	11.0	12.8	14.6	16.4	18.2	20.0	21.8
87.5°	7.3	7.3	7.3	7.1	6.7	6.1	5.4	3.8	2.4	1.1	0.0
85°	7.3	7.3	7.3	6.8	6.0	4.9	3.5	2.2	1.2	0.4	0.0
82.5°	7.3	7.3	7.3	6.6	5.4	3.8	1.7	0.6	0.2	1.1	1.9
80°	7.3	7.3	7.3	6.4	4.9	2.7	0.4	1.4	2.6	3.8	5.0
77.5°	7.3	7.3	7.3	6.2	4.3	2.4	2.3	3.6	5.1	6.6	6.6
75°	7.3	7.3	7.3	6.0	4.0	3.6	4.1	5.7	7.2	5.9	3.8
72.5°	7.3	7.3	7.3	5.9	4.6	4.7	5.8	7.2	6.2	4.2	1.3
70°	7.3	7.3	7.3	5.8	5.2	5.8	7.3	6.9	5.4	2.8	3.3
67.5°	7.3	7.3	7.3	6.1	5.8	6.8	7.5	6.7	4.7	5.7	6.5
65°	7.3	7.3	7.3	6.3	6.4	7.6	7.8	6.7	7.3	8.5	9.0
62.5°	7.3	7.3	7.3	6.6	6.8	8.1	8.2	8.2	9.8	11.1	10.1
60°	7.3	7.3	7.3	6.7	7.3	8.8	8.7	10.5	12.3	12.7	11.4
57.5°	7.3	7.3	7.4	6.9	8.0	9.5	10.4	12.6	14.4	14.6	14.2
55°	7.3	7.3	7.5	7.1	8.7	10.2	12.2	14.8	16.6	16.9	17.7
52.5°	7.3	7.3	7.6	7.2	9.5	11.2	14.0	16.9	19.0	20.0	21.1
50°	7.3	7.3	7.8	7.3	10.3	12.7	15.8	18.9	21.5	23.1	24.6
47.5°	7.3	7.3	8.0	7.5	11.2	14.1	17.6	20.9	24.3	26.2	28.0
45°	7.3	7.3	8.2	8.1	12.0	15.5	19.3	22.9	26.8	29.2	31.3
42.5°	7.3	7.3	8.4	8.8	12.9	16.9	20.9	25.1	29.5	32.2	38.0
40°	7.3	7.3	8.7	9.7	13.9	18.2	22.5	27.6	32.4	35.3	45.4
37.5°	7.3	7.3	9.0	10.7	15.0	19.5	24.1	30.2	35.5	40.1	52.9
35°	7.3	7.3	9.3	11.6	16.0	20.8	25.6	32.8	38.7	49.2	67.3
32.5°	7.3	7.3	9.6	12.5	17.0	22.0	27.3	35.6	42.0	60.0	96.0
30°	7.3	7.3	10.0	13.4	17.9	23.2	29.5	38.4	45.5	72.2	124.0
27.5°	7.3	7.3	10.3	14.3	19.0	24.3	31.6	41.2	51.5	85.9	151.0
25°	7.3	7.3	10.7	15.2	20.2	25.4	33.8	44.0	62.0	105.8	177.5
22.5°	7.3	7.3	11.1	16.0	21.2	26.5	35.9	46.9	73.1	127.7	212.6
20°	7.3	7.3	11.5	16.8	22.3	27.8	38.0	49.7	84.6	148.4	247.4
17.5°	7.3	7.3	11.9	17.5	23.3	29.1	40.1	52.6	96.4	168.0	281.6
15°	7.3	7.3	12.3	18.2	24.3	30.3	42.1	56.2	108.1	186.4	314.9
12.5°	7.3	7.3	12.7	18.9	25.2	31.5	44.0	61.3	121.2	203.4	346.7
10°	7.3	7.3	13.1	19.6	26.1	32.6	45.7	66.6	135.1	223.2	378.6
7.5°	7.3	7.3	13.5	20.2	26.9	33.7	47.3	72.0	148.3	242.4	412.2
5°	7.3	7.3	13.9	20.8	27.7	34.6	48.6	77.3	160.7	260.3	443.1
2.5°	7.3	7.3	14.3	21.3	28.4	35.6	49.9	82.5	171.9	276.6	470.8
0°	7.3	7.3	14.6	21.8	29.1	36.4	50.9	87.3	181.9	291.1	494.9
-2.5°	7.3	7.3	14.6	21.8	29.7	37.2	53.7	96.2	189.1	314.1	516.6
-5°	7.3	7.3	14.5	21.7	30.3	37.9	56.3	104.3	194.9	334.2	534.3
-7.5°	7.3	7.3	14.5	21.6	30.7	38.5	58.6	111.4	199.5	350.6	548.2
-10°	7.3	7.3	14.4	21.5	31.1	39.1	60.5	117.3	202.9	362.5	558.4
-12.5°	7.3	7.3	14.3	21.3	31.3	39.5	61.9	121.7	205.2	368.7	566.3
-15°	7.3	7.3	14.1	21.1	31.4	39.9	62.8	124.3	209.4	368.1	569.2
-17.5°	7.3	7.3	13.9	20.8	31.3	40.3	63.1	127.0	215.7	364.4	565.7
-20°	7.3	7.3	13.7	20.5	31.1	40.5	64.8	129.6	219.8	357.7	555.2

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Scaled Data Report



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	7.3	7.3	13.5	20.1	30.8	40.7	68.9	130.8	221.6	348.1	537.6
-25°	7.3	7.3	13.2	19.8	30.2	43.3	72.3	130.4	220.9	335.8	512.4
-27.5°	7.3	7.3	12.9	19.3	29.5	46.7	75.0	128.4	217.8	325.2	494.0
-30°	7.3	7.3	12.6	18.9	28.8	49.6	76.8	124.9	213.7	320.5	473.3
-32.5°	7.3	7.3	12.3	18.4	29.8	52.0	77.8	125.1	208.6	312.5	450.0
-35°	7.3	7.3	12.0	17.9	30.6	53.9	79.9	125.7	201.3	301.3	424.1
-37.5°	7.3	7.3	11.6	17.3	31.1	55.1	82.0	125.3	192.0	286.7	412.5
-40°	7.3	7.3	11.2	16.7	31.3	55.6	83.3	123.6	180.7	272.7	399.5
-42.5°	7.3	7.3	10.8	16.4	31.5	55.6	83.7	120.7	174.2	261.4	379.7
-45°	7.3	7.3	10.3	16.5	31.7	55.2	83.3	118.1	169.5	247.5	354.9
-47.5°	7.3	7.3	9.9	16.4	31.5	54.3	82.1	116.4	163.4	230.8	335.2
-50°	7.3	7.3	9.4	16.2	30.9	53.1	80.4	113.6	158.5	224.8	311.9
-52.5°	7.3	7.3	8.9	15.9	30.0	51.4	78.1	109.6	154.5	216.8	286.8
-55°	7.3	7.3	8.4	15.4	28.7	49.3	75.3	104.7	149.4	207.0	274.9
-57.5°	7.3	7.3	7.8	14.9	27.1	46.7	72.0	100.3	142.4	196.6	260.7
-60°	7.3	7.3	7.3	14.2	25.2	43.5	68.0	95.4	133.5	184.4	244.3
-62.5°	7.3	7.3	7.3	13.4	23.8	39.8	62.5	88.8	122.4	169.8	225.3
-65°	7.3	7.3	7.3	12.5	22.3	35.7	56.4	80.5	109.0	150.7	203.7
-67.5°	7.3	7.3	7.3	11.6	20.5	32.1	49.6	70.7	93.6	128.3	175.0
-70°	7.3	7.3	7.3	10.5	18.7	29.1	42.2	60.2	80.2	103.5	141.4
-72.5°	7.3	7.3	7.3	10.3	16.6	25.9	37.3	49.2	66.1	85.8	108.2
-75°	7.3	7.3	7.3	10.2	14.5	22.6	32.5	41.5	51.5	67.6	86.1
-77.5°	7.3	7.3	7.3	10.1	13.7	19.1	27.4	34.9	42.7	51.2	63.1
-80°	7.3	7.3	7.3	9.9	13.3	17.2	22.1	28.1	34.4	41.2	48.6
-82.5°	7.3	7.3	7.3	9.8	12.7	16.1	20.0	22.8	25.9	31.1	36.6
-85°	7.3	7.3	7.3	9.6	12.2	15.1	18.3	20.7	23.1	25.5	27.9
-87.5°	7.3	7.3	7.3	9.4	11.6	13.9	16.5	18.6	20.7	22.8	24.9
-90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	5.5	3.6	1.8	0.0



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	23.6	25.5	27.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	1.9	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.8	3.9	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.2	2.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1.5	0.1	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.2	2.1	2.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.1	4.5	3.0	1.2	0.0	0.4	1.1	0.8	0.0	0.4	0.9
67.5°	6.8	5.1	3.3	2.1	2.7	3.7	3.4	3.7	4.0	4.3	3.7
65°	7.1	5.4	5.5	6.4	7.2	7.9	8.5	9.0	7.6	6.6	6.7
62.5°	7.6	8.2	9.5	10.6	11.7	12.7	12.8	11.3	8.6	10.8	12.4
60°	10.8	11.9	13.5	14.9	16.3	17.1	16.3	16.5	18.3	21.3	40.9
57.5°	14.6	15.6	17.4	19.7	21.7	22.0	22.6	24.6	57.6	94.2	104.1
55°	18.4	19.2	22.2	25.8	28.0	27.8	39.9	84.1	127.0	175.9	194.0
52.5°	22.1	23.7	28.9	33.3	36.0	56.1	101.1	161.1	224.4	280.6	353.2
50°	25.9	31.2	36.6	42.9	68.4	120.9	186.7	268.6	364.0	453.8	545.8
47.5°	32.4	39.0	47.2	67.7	135.0	207.8	298.8	430.6	548.2	656.9	783.0
45°	40.0	53.8	62.9	134.1	212.3	306.1	460.3	621.5	728.1	873.6	1096.7
42.5°	47.9	74.5	120.2	202.6	297.8	449.2	640.3	777.7	919.6	1155.4	1390.0
40°	69.0	99.8	181.4	279.3	400.0	620.8	816.9	972.4	1166.3	1427.6	1672.6
37.5°	94.5	152.4	243.8	361.2	560.3	802.3	1012.4	1234.5	1457.4	1703.8	2158.1
35°	122.9	201.2	322.8	481.2	720.8	1003.7	1254.1	1502.3	1759.1	2244.3	2695.1
32.5°	159.9	246.1	405.4	620.8	894.2	1204.7	1495.4	1782.3	2194.3	2743.3	3195.8
30°	199.7	318.3	500.5	750.0	1057.5	1388.8	1738.3	2085.7	2631.0	3085.3	3576.5
27.5°	241.4	394.5	612.0	884.9	1210.4	1562.6	1957.0	2452.7	2938.9	3387.9	3927.6
25°	284.1	473.9	714.0	1014.0	1360.8	1750.4	2204.1	2807.8	3188.2	3684.3	4247.3
22.5°	339.1	549.8	815.0	1130.9	1500.2	1943.3	2522.0	3128.2	3575.9	3993.1	4543.2
20°	402.7	635.3	924.9	1277.5	1636.7	2131.8	2838.1	3475.7	4002.2	4480.1	4985.3
17.5°	462.1	715.3	1042.4	1427.1	1835.4	2373.4	3148.2	3853.9	4433.3	4965.8	5596.5
15°	517.0	789.2	1157.4	1568.7	2030.8	2650.1	3426.4	4201.3	4863.0	5462.1	6178.8
12.5°	567.2	856.8	1268.3	1701.3	2214.7	2888.7	3659.9	4416.3	5143.6	5924.2	6737.6
10°	612.4	917.5	1373.0	1823.7	2385.2	3090.5	3852.9	4595.6	5329.4	6155.5	7059.2
7.5°	661.0	974.4	1468.1	1934.8	2540.3	3257.1	4007.1	4739.4	5479.5	6340.4	7268.2
5°	705.9	1026.6	1543.6	2014.5	2660.3	3387.2	4123.0	4848.6	5593.4	6478.2	7426.4
2.5°	745.3	1070.5	1605.1	2077.0	2749.2	3482.9	4198.4	4939.7	5678.0	6590.2	7547.3
0°	778.7	1106.2	1652.0	2125.0	2816.4	3551.4	4242.8	4999.6	5727.4	6666.2	7626.8
-2.5°	800.1	1164.6	1684.2	2208.7	2875.1	3596.3	4282.5	5016.4	5780.6	6690.2	7716.0
-5°	815.1	1211.9	1703.7	2273.2	2913.5	3616.0	4295.5	5003.4	5794.8	6684.1	7729.2
-7.5°	823.9	1245.3	1712.8	2309.9	2927.0	3604.2	4273.4	4978.8	5771.6	6661.3	7671.3
-10°	829.0	1255.8	1725.1	2298.8	2909.2	3565.1	4224.2	4921.0	5705.5	6586.8	7561.6
-12.5°	842.6	1249.1	1723.0	2274.4	2870.9	3506.2	4151.2	4829.4	5595.5	6459.9	7409.8
-15°	846.1	1234.1	1702.3	2238.4	2812.4	3429.1	4055.6	4703.9	5459.9	6336.2	7241.9
-17.5°	838.4	1211.5	1661.9	2192.4	2734.1	3335.6	3943.0	4590.8	5332.7	6193.5	7065.7
-20°	819.0	1182.1	1601.0	2138.2	2641.1	3231.8	3830.4	4472.3	5186.4	5995.6	6868.4

Classified

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

Scaled Data Report



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	787.1	1146.7	1535.1	2062.4	2560.9	3112.6	3698.2	4310.7	5003.0	5738.8	6603.2
-25°	754.1	1106.6	1483.3	1958.3	2464.3	2973.3	3546.4	4113.2	4787.7	5510.3	6277.3
-27.5°	722.9	1050.7	1429.3	1844.3	2350.6	2824.6	3374.8	3927.7	4545.6	5253.8	5960.0
-30°	682.0	990.2	1363.4	1734.6	2214.6	2684.6	3183.4	3727.5	4283.2	4955.3	5650.1
-32.5°	645.9	927.4	1288.4	1651.1	2068.5	2526.9	2977.1	3495.6	4037.9	4610.9	5297.4
-35°	621.8	890.2	1208.9	1554.6	1919.3	2355.3	2783.5	3234.0	3759.3	4297.0	4899.8
-37.5°	602.2	847.5	1125.2	1454.0	1801.2	2175.4	2576.3	2990.8	3449.1	3991.2	4558.0
-40°	571.5	799.5	1063.2	1358.1	1664.5	2004.7	2376.8	2752.0	3149.4	3679.0	4238.2
-42.5°	532.1	752.9	1004.8	1253.8	1533.7	1844.3	2175.1	2528.4	2910.2	3370.3	3884.3
-45°	501.8	693.4	939.8	1162.9	1394.6	1678.6	1989.3	2309.3	2669.4	3064.4	3526.1
-47.5°	463.3	628.7	854.9	1063.3	1267.4	1509.9	1794.0	2097.0	2415.9	2771.8	3150.2
-50°	422.2	574.7	750.9	953.9	1148.5	1350.2	1592.5	1872.6	2162.0	2472.3	2809.9
-52.5°	391.0	511.6	672.4	841.4	1026.9	1209.8	1416.1	1656.3	1914.8	2174.0	2471.0
-55°	355.7	465.1	597.7	749.1	907.1	1076.4	1264.2	1474.7	1685.3	1923.4	2160.4
-57.5°	330.8	420.4	535.3	666.9	808.7	952.6	1129.9	1307.8	1502.9	1699.9	1896.5
-60°	311.4	381.8	477.1	593.0	719.4	853.9	999.4	1163.7	1331.7	1492.5	1662.4
-62.5°	289.1	350.4	424.9	519.4	633.7	750.7	878.8	1019.6	1171.5	1307.0	1438.7
-65°	260.3	313.6	377.6	454.5	544.2	643.1	752.3	870.9	1002.3	1112.2	1219.8
-67.5°	227.3	272.2	325.8	388.7	463.5	540.6	620.8	721.1	827.7	917.4	1005.1
-70°	185.7	227.3	271.1	322.4	381.0	446.4	516.9	589.7	662.7	736.0	816.2
-72.5°	142.2	179.9	217.1	253.7	300.4	354.0	411.5	472.6	536.3	598.9	659.9
-75°	108.4	132.9	165.4	198.3	230.8	265.7	304.6	353.2	412.3	473.1	528.8
-77.5°	81.8	102.4	124.0	146.7	167.2	192.9	221.0	251.2	300.1	356.2	412.8
-80°	59.0	71.4	88.6	106.8	121.2	135.4	150.2	165.4	201.8	247.0	295.2
-82.5°	43.8	52.2	61.8	72.4	79.6	86.7	94.6	104.7	131.7	162.2	194.4
-85°	30.2	32.7	37.8	43.7	47.8	51.9	56.1	60.4	75.0	91.2	108.7
-87.5°	26.0	27.3	28.7	30.2	30.7	31.2	31.7	32.1	37.0	42.1	47.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	29.1	30.9	32.8	34.6	36.4	38.2	40.1	41.9	43.7	43.7	43.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.6	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3.3	3.7	3.8	3.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	7.7	7.4	5.5	3.6	1.7	2.8	4.4	5.3	5.3	4.8	3.7
62.5°	11.5	10.6	9.6	11.1	13.3	15.3	14.7	13.9	13.0	12.3	12.8
60°	43.1	28.7	33.2	41.7	38.9	26.6	43.8	49.6	42.3	28.9	28.0
57.5°	109.1	105.3	120.6	176.2	193.9	176.7	211.1	256.3	255.0	219.6	218.4
55°	232.4	311.8	407.6	423.2	489.9	623.6	727.7	682.1	681.8	716.1	826.7
52.5°	441.4	516.4	544.3	618.8	758.2	859.4	924.4	991.7	1065.5	1140.8	1217.1
50°	647.9	720.6	803.2	879.5	1072.5	1176.4	1159.0	1298.5	1476.9	1588.3	1645.6
47.5°	950.3	1064.9	1239.5	1513.1	1657.1	1761.3	1890.8	2048.8	2253.2	2530.4	2744.0
45°	1306.3	1486.7	1756.8	2047.4	2271.0	2372.9	2521.0	2765.6	3091.6	3408.9	3640.7
42.5°	1597.4	1844.8	2149.5	2427.2	2609.5	2776.8	2968.7	3175.0	3548.3	3887.3	4155.2
40°	1977.2	2169.9	2511.8	2773.6	2936.8	3102.6	3406.7	3715.4	4066.5	4382.3	4601.8
37.5°	2458.6	2675.5	3031.1	3327.1	3484.3	3542.9	4060.0	4489.8	4775.1	5178.3	5310.1
35°	2975.8	3332.7	3785.9	4169.7	4323.8	4631.3	5164.1	5763.7	6413.3	6652.2	6855.9
32.5°	3552.7	3993.1	4607.9	5019.9	5239.8	5706.5	6380.8	7020.7	7870.2	8331.2	8469.1
30°	4080.6	4585.9	5114.4	5514.8	5890.7	6452.9	7067.7	7856.8	8642.3	9231.7	9414.8
27.5°	4467.9	5027.1	5535.2	5910.1	6334.3	6940.4	7707.0	8506.1	9277.1	9878.5	10092.2
25°	4837.7	5469.8	5872.0	6307.9	6806.0	7466.5	8316.1	9204.0	9963.4	10471.7	10733.8
22.5°	5258.2	5881.5	6313.3	6682.5	7333.8	8094.9	8883.4	9886.8	10691.4	11097.0	11381.1
20°	5692.3	6397.5	7064.5	7408.0	7971.5	8935.1	9817.9	10765.1	11542.1	11964.7	12264.0
17.5°	6298.0	7196.6	8014.7	8501.1	9104.5	10256.8	11358.3	12316.4	13397.4	13779.1	14144.8
15°	6936.6	7976.6	8935.0	9705.6	10485.1	11626.8	13044.7	14201.0	15434.3	15985.1	16607.8
12.5°	7573.2	8557.4	9425.7	10419.7	11518.4	12528.3	13878.2	15318.0	16437.2	17139.7	17558.8
10°	8049.0	8963.1	9798.7	10795.1	11891.7	13034.1	14375.5	15851.5	17023.0	17622.4	17964.5
7.5°	8305.9	9180.8	10062.1	11071.9	12163.5	13380.1	14762.3	16226.7	17424.6	18005.3	18343.1
5°	8496.7	9336.9	10249.5	11312.4	12416.2	13649.8	15030.1	16477.0	17569.3	18186.5	18613.7
2.5°	8612.1	9435.9	10368.9	11468.0	12574.4	13859.3	15306.2	16806.0	17761.7	18258.3	18651.2
0°	8645.6	9475.3	10435.9	11549.4	12684.7	13980.0	15413.7	16898.3	17866.2	18346.5	18746.8
-2.5°	8683.3	9537.5	10524.5	11602.2	12727.8	14019.5	15482.9	16929.6	17800.3	18285.0	18665.7
-5°	8657.1	9542.3	10526.3	11558.5	12691.6	13973.0	15377.9	16730.5	17641.3	18165.3	18543.9
-7.5°	8578.7	9476.6	10450.4	11442.4	12553.8	13849.9	15248.8	16551.3	17474.0	18026.5	18440.8
-10°	8464.7	9336.4	10316.9	11321.6	12419.7	13653.4	15030.9	16325.5	17208.6	17795.3	18278.1
-12.5°	8338.4	9192.0	10137.1	11100.8	12186.9	13405.2	14739.9	15965.5	16843.3	17483.3	17828.2
-15°	8151.2	9004.3	9907.8	10840.0	11898.6	13080.6	14355.5	15531.3	16393.3	16914.1	17295.3
-17.5°	7913.1	8750.2	9606.7	10490.8	11488.2	12652.2	13934.8	15094.5	15797.2	16262.3	16637.0
-20°	7658.1	8432.1	9243.6	10077.9	11044.6	12197.7	13457.3	14468.9	15131.2	15578.0	15931.9



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	7366.7	8112.2	8855.0	9652.5	10600.4	11657.6	12770.2	13747.7	14459.8	14866.8	15193.8
-25°	7034.2	7759.3	8464.8	9235.0	10106.1	11056.4	12091.0	13051.5	13689.3	14121.6	14445.9
-27.5°	6676.0	7357.3	8046.4	8738.1	9521.3	10468.1	11426.2	12318.6	12862.9	13298.6	13624.9
-30°	6318.6	6931.3	7568.9	8223.6	8958.7	9812.4	10708.6	11459.0	12033.1	12456.5	12759.4
-32.5°	5931.1	6512.7	7077.5	7689.5	8381.5	9133.9	9920.4	10634.2	11247.7	11635.5	11890.7
-35°	5534.4	6097.3	6614.3	7169.8	7780.2	8429.5	9155.5	9859.4	10465.3	10772.1	11020.9
-37.5°	5121.1	5682.4	6172.5	6636.6	7162.5	7763.8	8470.9	9142.5	9665.9	9929.7	10153.9
-40°	4761.7	5255.9	5697.0	6141.1	6568.6	7102.6	7762.5	8412.8	8832.8	9089.8	9298.0
-42.5°	4412.9	4829.7	5191.0	5589.0	6016.9	6543.3	7075.8	7621.0	7958.6	8243.9	8463.3
-45°	4006.6	4379.1	4717.8	5048.9	5439.2	5919.8	6403.4	6840.2	7156.3	7432.1	7645.8
-47.5°	3557.1	3916.9	4245.8	4541.8	4904.5	5305.3	5712.6	6076.0	6388.2	6660.7	6851.3
-50°	3138.3	3459.7	3780.9	4080.5	4394.8	4719.0	5049.4	5368.4	5664.7	5929.5	6091.8
-52.5°	2763.1	3059.6	3340.3	3602.3	3877.3	4151.3	4424.9	4717.0	4989.7	5240.3	5369.8
-55°	2423.6	2691.0	2944.3	3165.0	3385.7	3603.0	3837.5	4107.2	4358.3	4590.4	4683.4
-57.5°	2118.9	2347.7	2571.9	2758.5	2938.6	3111.5	3317.4	3545.1	3764.8	3963.8	4039.8
-60°	1838.6	2020.2	2207.6	2373.2	2530.2	2678.4	2858.0	3041.3	3219.6	3369.5	3434.3
-62.5°	1580.8	1736.1	1878.1	2012.7	2145.7	2279.2	2424.0	2569.5	2713.5	2829.0	2887.5
-65°	1332.2	1455.9	1570.0	1680.6	1788.0	1900.1	2013.6	2124.1	2230.6	2313.2	2363.9
-67.5°	1098.9	1192.9	1283.4	1369.7	1459.5	1550.4	1639.1	1723.8	1803.8	1867.6	1916.1
-70°	892.0	964.7	1035.6	1107.0	1182.0	1252.7	1319.5	1382.8	1442.4	1488.4	1525.7
-72.5°	719.0	778.1	839.3	903.6	964.2	1017.0	1065.0	1111.3	1155.6	1181.6	1201.0
-75°	579.7	629.3	682.6	734.6	785.3	825.4	860.6	894.8	927.6	929.4	922.8
-77.5°	468.3	512.7	553.9	594.8	635.2	659.9	681.5	703.7	726.2	713.2	692.7
-80°	343.7	380.7	415.7	450.9	486.0	500.7	510.9	519.7	527.2	510.2	489.2
-82.5°	228.1	251.4	274.2	297.3	320.8	330.2	337.2	342.9	347.5	332.1	314.4
-85°	127.3	138.5	149.5	160.6	171.7	178.3	184.3	189.8	194.8	185.7	175.3
-87.5°	52.9	55.4	57.9	60.4	62.8	65.1	67.4	69.6	71.8	72.1	72.4
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	41.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2.2	0.4	0.0	0.0	0.0	0.4	2.2	3.7	4.8	5.3	5.3
62.5°	13.4	14.0	14.4	14.6	14.4	14.0	13.4	12.8	12.3	13.0	13.9
60°	25.7	22.5	21.7	21.8	21.7	22.5	25.7	28.0	28.9	42.3	49.6
57.5°	201.7	172.7	177.1	196.5	177.1	172.7	201.7	218.4	219.6	255.0	256.3
55°	942.8	1052.4	1091.2	1069.8	1091.2	1052.4	942.8	826.7	716.1	681.8	682.1
52.5°	1277.3	1322.3	1339.7	1339.1	1339.7	1322.3	1277.3	1217.1	1140.8	1065.5	991.7
50°	1662.9	1647.7	1624.3	1601.0	1624.3	1647.7	1662.9	1645.6	1588.3	1476.9	1298.5
47.5°	2775.3	2727.2	2706.9	2743.6	2706.9	2727.2	2775.3	2744.0	2530.4	2253.2	2048.8
45°	3688.0	3744.3	3786.4	3784.3	3786.4	3744.3	3688.0	3640.7	3408.9	3091.6	2765.6
42.5°	4207.7	4237.7	4246.4	4235.5	4246.4	4237.7	4207.7	4155.2	3887.3	3548.3	3175.0
40°	4670.8	4706.6	4726.7	4744.9	4726.7	4706.6	4670.8	4601.8	4382.3	4066.5	3715.4
37.5°	5353.6	5366.7	5338.1	5319.8	5338.1	5366.7	5353.6	5310.1	5178.3	4775.1	4489.8
35°	7027.7	7062.0	6982.5	7066.4	6982.5	7062.0	7027.7	6855.9	6652.2	6413.3	5763.7
32.5°	8633.2	8793.8	8923.8	9031.4	8923.8	8793.8	8633.2	8469.1	8331.2	7870.2	7020.7
30°	9542.6	9646.3	9702.0	9715.4	9702.0	9646.3	9542.6	9414.8	9231.7	8642.3	7856.8
27.5°	10210.4	10319.0	10386.7	10435.9	10386.7	10319.0	10210.4	10092.2	9878.5	9277.1	8506.1
25°	10853.9	10953.3	11020.9	11047.2	11020.9	10953.3	10853.9	10733.8	10471.7	9963.4	9204.0
22.5°	11521.7	11590.8	11655.8	11687.6	11655.8	11590.8	11521.7	11381.1	11097.0	10691.4	9886.8
20°	12479.0	12441.5	12500.8	12480.9	12500.8	12441.5	12479.0	12264.0	11964.7	11542.1	10765.1
17.5°	14430.0	14450.3	14489.8	14555.0	14489.8	14450.3	14430.0	14144.8	13779.1	13397.4	12316.4
15°	16883.6	16933.0	17183.9	17407.7	17183.9	16933.0	16883.6	16607.8	15985.1	15434.3	14201.0
12.5°	17947.8	18118.7	18145.2	18208.3	18145.2	18118.7	17947.8	17558.8	17139.7	16437.2	15318.0
10°	18303.0	18598.9	18592.5	18666.7	18592.5	18598.9	18303.0	17964.5	17622.4	17023.0	15851.5
7.5°	18572.4	18890.1	19024.5	19081.6	19024.5	18890.1	18572.4	18343.1	18005.3	17424.6	16226.7
5°	18901.5	19076.2	19308.0	19241.7	19308.0	19076.2	18901.5	18613.7	18186.5	17569.3	16477.0
2.5°	19039.4	19313.1	19249.9	19314.4	19249.9	19313.1	19039.4	18651.2	18258.3	17761.7	16806.0
0°	19132.5	19329.0	19358.1	19423.6	19358.1	19329.0	19132.5	18746.8	18346.5	17866.2	16898.3
-2.5°	19019.7	19192.6	19495.4	19401.8	19495.4	19192.6	19019.7	18665.7	18285.0	17800.3	16929.6
-5°	18920.8	19346.3	19181.0	19387.2	19181.0	19346.3	18920.8	18543.9	18165.3	17641.3	16730.5
-7.5°	18869.6	18945.7	19055.4	19212.6	19055.4	18945.7	18869.6	18440.8	18026.5	17474.0	16551.3
-10°	18474.6	18552.5	18754.0	18863.2	18754.0	18552.5	18474.6	18278.1	17795.3	17208.6	16325.5
-12.5°	18046.2	18197.0	18408.7	18477.5	18408.7	18197.0	18046.2	17828.2	17483.3	16843.3	15965.5
-15°	17552.8	17776.7	17983.0	18026.3	17983.0	17776.7	17552.8	17295.3	16914.1	16393.3	15531.3
-17.5°	16925.3	17193.7	17410.6	17458.7	17410.6	17193.7	16925.3	16637.0	16262.3	15797.2	15094.5
-20°	16233.8	16490.9	16675.4	16730.9	16675.4	16490.9	16233.8	15931.9	15578.0	15131.2	14468.9



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	15493.5	15725.0	15880.9	15857.6	15880.9	15725.0	15493.5	15193.8	14866.8	14459.8	13747.7
-25°	14707.6	14922.4	15071.0	15049.8	15071.0	14922.4	14707.6	14445.9	14121.6	13689.3	13051.5
-27.5°	13876.7	14080.2	14223.0	14227.5	14223.0	14080.2	13876.7	13624.9	13298.6	12862.9	12318.6
-30°	13003.6	13188.4	13304.3	13259.6	13304.3	13188.4	13003.6	12759.4	12456.5	12033.1	11459.0
-32.5°	12103.0	12270.2	12376.5	12408.1	12376.5	12270.2	12103.0	11890.7	11635.5	11247.7	10634.2
-35°	11214.8	11362.2	11454.0	11476.6	11454.0	11362.2	11214.8	11020.9	10772.1	10465.3	9859.4
-37.5°	10332.2	10459.1	10523.1	10494.1	10523.1	10459.1	10332.2	10153.9	9929.7	9665.9	9142.5
-40°	9460.1	9580.9	9654.3	9671.8	9654.3	9580.9	9460.1	9298.0	9089.8	8832.8	8412.8
-42.5°	8602.6	8703.1	8767.5	8798.5	8767.5	8703.1	8602.6	8463.3	8243.9	7958.6	7621.0
-45°	7770.5	7860.3	7920.8	7954.3	7920.8	7860.3	7770.5	7645.8	7432.1	7156.3	6840.2
-47.5°	6960.8	7039.5	7091.7	7117.4	7091.7	7039.5	6960.8	6851.3	6660.7	6388.2	6076.0
-50°	6186.6	6254.8	6303.4	6331.4	6303.4	6254.8	6186.6	6091.8	5929.5	5664.7	5368.4
-52.5°	5452.4	5511.9	5553.4	5574.6	5553.4	5511.9	5452.4	5369.8	5240.3	4989.7	4717.0
-55°	4751.2	4799.5	4837.9	4861.4	4837.9	4799.5	4751.2	4683.4	4590.4	4358.3	4107.2
-57.5°	4097.5	4136.9	4173.2	4199.1	4173.2	4136.9	4097.5	4039.8	3963.8	3764.8	3545.1
-60°	3485.4	3522.6	3553.6	3573.2	3553.6	3522.6	3485.4	3434.3	3369.5	3219.6	3041.3
-62.5°	2933.1	2966.1	2994.4	3012.9	2994.4	2966.1	2933.1	2887.5	2829.0	2713.5	2569.5
-65°	2403.7	2433.3	2454.4	2467.1	2454.4	2433.3	2403.7	2363.9	2313.2	2230.6	2124.1
-67.5°	1957.4	1991.5	1998.2	1994.0	1998.2	1991.5	1957.4	1916.1	1867.6	1803.8	1723.8
-70°	1559.0	1587.9	1594.7	1593.8	1594.7	1587.9	1559.0	1525.7	1488.4	1442.4	1382.8
-72.5°	1219.0	1234.7	1221.4	1200.8	1221.4	1234.7	1219.0	1201.0	1181.6	1155.6	1111.3
-75°	914.8	904.7	890.6	873.3	890.6	904.7	914.8	922.8	929.4	927.6	894.8
-77.5°	670.0	645.2	629.0	611.3	629.0	645.2	670.0	692.7	713.2	726.2	703.7
-80°	466.5	442.2	425.4	407.5	425.4	442.2	466.5	489.2	510.2	527.2	519.7
-82.5°	295.5	275.5	265.3	254.7	265.3	275.5	295.5	314.4	332.1	347.5	342.9
-85°	164.1	152.3	145.4	138.3	145.4	152.3	164.1	175.3	185.7	194.8	189.8
-87.5°	72.6	72.7	69.1	65.5	69.1	72.7	72.6	72.4	72.1	71.8	69.6
-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: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	40.1	38.2	36.4	34.6	32.8	30.9	29.1	27.3	25.5	23.6	21.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.2	0.2	0.0	0.0	0.6	0.9	0.4	0.0	0.8
67.5°	0.0	0.0	1.3	3.0	3.8	3.7	3.3	3.7	4.3	4.0	3.7
65°	4.4	2.8	1.7	3.6	5.5	7.4	7.7	6.7	6.6	7.6	9.0
62.5°	14.7	15.3	13.3	11.1	9.6	10.6	11.5	12.4	10.8	8.6	11.3
60°	43.8	26.6	38.9	41.7	33.2	28.7	43.1	40.9	21.3	18.3	16.5
57.5°	211.1	176.7	193.9	176.2	120.6	105.3	109.1	104.1	94.2	57.6	24.6
55°	727.7	623.6	489.9	423.2	407.6	311.8	232.4	194.0	175.9	127.0	84.1
52.5°	924.4	859.4	758.2	618.8	544.3	516.4	441.4	353.2	280.6	224.4	161.1
50°	1159.0	1176.4	1072.5	879.5	803.2	720.6	647.9	545.8	453.8	364.0	268.6
47.5°	1890.8	1761.3	1657.1	1513.1	1239.5	1064.9	950.3	783.0	656.9	548.2	430.6
45°	2521.0	2372.9	2271.0	2047.4	1756.8	1486.7	1306.3	1096.7	873.6	728.1	621.5
42.5°	2968.7	2776.8	2609.5	2427.2	2149.5	1844.8	1597.4	1390.0	1155.4	919.6	777.7
40°	3406.7	3102.6	2936.8	2773.6	2511.8	2169.9	1977.2	1672.6	1427.6	1166.3	972.4
37.5°	4060.0	3542.9	3484.3	3327.1	3031.1	2675.5	2458.6	2158.1	1703.8	1457.4	1234.5
35°	5164.1	4631.3	4323.8	4169.7	3785.9	3332.7	2975.8	2695.1	2244.3	1759.1	1502.3
32.5°	6380.8	5706.5	5239.8	5019.9	4607.9	3993.1	3552.7	3195.8	2743.3	2194.3	1782.3
30°	7067.7	6452.9	5890.7	5514.8	5114.4	4585.9	4080.6	3576.5	3085.3	2631.0	2085.7
27.5°	7707.0	6940.4	6334.3	5910.1	5535.2	5027.1	4467.9	3927.6	3387.9	2938.9	2452.7
25°	8316.1	7466.5	6806.0	6307.9	5872.0	5469.8	4837.7	4247.3	3684.3	3188.2	2807.8
22.5°	8883.4	8094.9	7333.8	6682.5	6313.3	5881.5	5258.2	4543.2	3993.1	3575.9	3128.2
20°	9817.9	8935.1	7971.5	7408.0	7064.5	6397.5	5692.3	4985.3	4480.1	4002.2	3475.7
17.5°	11358.3	10256.8	9104.5	8501.1	8014.7	7196.6	6298.0	5596.5	4965.8	4433.3	3853.9
15°	13044.7	11626.8	10485.1	9705.6	8935.0	7976.6	6936.6	6178.8	5462.1	4863.0	4201.3
12.5°	13878.2	12528.3	11518.4	10419.7	9425.7	8557.4	7573.2	6737.6	5924.2	5143.6	4416.3
10°	14375.5	13034.1	11891.7	10795.1	9798.7	8963.1	8049.0	7059.2	6155.5	5329.4	4595.6
7.5°	14762.3	13380.1	12163.5	11071.9	10062.1	9180.8	8305.9	7268.2	6340.4	5479.5	4739.4
5°	15030.1	13649.8	12416.2	11312.4	10249.5	9336.9	8496.7	7426.4	6478.2	5593.4	4848.6
2.5°	15306.2	13859.3	12574.4	11468.0	10368.9	9435.9	8612.1	7547.3	6590.2	5678.0	4939.7
0°	15413.7	13980.0	12684.7	11549.4	10435.9	9475.3	8645.6	7626.8	6666.2	5727.4	4999.6
-2.5°	15482.9	14019.5	12727.8	11602.2	10524.5	9537.5	8683.3	7716.0	6690.2	5780.6	5016.4
-5°	15377.9	13973.0	12691.6	11558.5	10526.3	9542.3	8657.1	7729.2	6684.1	5794.8	5003.4
-7.5°	15248.8	13849.9	12553.8	11442.4	10450.4	9476.6	8578.7	7671.3	6661.3	5771.6	4978.8
-10°	15030.9	13653.4	12419.7	11321.6	10316.9	9336.4	8464.7	7561.6	6586.8	5705.5	4921.0
-12.5°	14739.9	13405.2	12186.9	11100.8	10137.1	9192.0	8338.4	7409.8	6459.9	5595.5	4829.4
-15°	14355.5	13080.6	11898.6	10840.0	9907.8	9004.3	8151.2	7241.9	6336.2	5459.9	4703.9
-17.5°	13934.8	12652.2	11488.2	10490.8	9606.7	8750.2	7913.1	7065.7	6193.5	5332.7	4590.8
-20°	13457.3	12197.7	11044.6	10077.9	9243.6	8432.1	7658.1	6868.4	5995.6	5186.4	4472.3



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12770.2	11657.6	10600.4	9652.5	8855.0	8112.2	7366.7	6603.2	5738.8	5003.0	4310.7
-25°	12091.0	11056.4	10106.1	9235.0	8464.8	7759.3	7034.2	6277.3	5510.3	4787.7	4113.2
-27.5°	11426.2	10468.1	9521.3	8738.1	8046.4	7357.3	6676.0	5960.0	5253.8	4545.6	3927.7
-30°	10708.6	9812.4	8958.7	8223.6	7568.9	6931.3	6318.6	5650.1	4955.3	4283.2	3727.5
-32.5°	9920.4	9133.9	8381.5	7689.5	7077.5	6512.7	5931.1	5297.4	4610.9	4037.9	3495.6
-35°	9155.5	8429.5	7780.2	7169.8	6614.3	6097.3	5534.4	4899.8	4297.0	3759.3	3234.0
-37.5°	8470.9	7763.8	7162.5	6636.6	6172.5	5682.4	5121.1	4558.0	3991.2	3449.1	2990.8
-40°	7762.5	7102.6	6568.6	6141.1	5697.0	5255.9	4761.7	4238.2	3679.0	3149.4	2752.0
-42.5°	7075.8	6543.3	6016.9	5589.0	5191.0	4829.7	4412.9	3884.3	3370.3	2910.2	2528.4
-45°	6403.4	5919.8	5439.2	5048.9	4717.8	4379.1	4006.6	3526.1	3064.4	2669.4	2309.3
-47.5°	5712.6	5305.3	4904.5	4541.8	4245.8	3916.9	3557.1	3150.2	2771.8	2415.9	2097.0
-50°	5049.4	4719.0	4394.8	4080.5	3780.9	3459.7	3138.3	2809.9	2472.3	2162.0	1872.6
-52.5°	4424.9	4151.3	3877.3	3602.3	3340.3	3059.6	2763.1	2471.0	2174.0	1914.8	1656.3
-55°	3837.5	3603.0	3385.7	3165.0	2944.3	2691.0	2423.6	2160.4	1923.4	1685.3	1474.7
-57.5°	3317.4	3111.5	2938.6	2758.5	2571.9	2347.7	2118.9	1896.5	1699.9	1502.9	1307.8
-60°	2858.0	2678.4	2530.2	2373.2	2207.6	2020.2	1838.6	1662.4	1492.5	1331.7	1163.7
-62.5°	2424.0	2279.2	2145.7	2012.7	1878.1	1736.1	1580.8	1438.7	1307.0	1171.5	1019.6
-65°	2013.6	1900.1	1788.0	1680.6	1570.0	1455.9	1332.2	1219.8	1112.2	1002.3	870.9
-67.5°	1639.1	1550.4	1459.5	1369.7	1283.4	1192.9	1098.9	1005.1	917.4	827.7	721.1
-70°	1319.5	1252.7	1182.0	1107.0	1035.6	964.7	892.0	816.2	736.0	662.7	589.7
-72.5°	1065.0	1017.0	964.2	903.6	839.3	778.1	719.0	659.9	598.9	536.3	472.6
-75°	860.6	825.4	785.3	734.6	682.6	629.3	579.7	528.8	473.1	412.3	353.2
-77.5°	681.5	659.9	635.2	594.8	553.9	512.7	468.3	412.8	356.2	300.1	251.2
-80°	510.9	500.7	486.0	450.9	415.7	380.7	343.7	295.2	247.0	201.8	165.4
-82.5°	337.2	330.2	320.8	297.3	274.2	251.4	228.1	194.4	162.2	131.7	104.7
-85°	184.3	178.3	171.7	160.6	149.5	138.5	127.3	108.7	91.2	75.0	60.4
-87.5°	67.4	65.1	62.8	60.4	57.9	55.4	52.9	47.4	42.1	37.0	32.1
-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: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	20.0	18.2	16.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.4	3.8
85°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	1.2	2.2
82.5°	0.0	0.0	0.0	0.1	1.2	1.9	2.1	1.9	1.1	0.2	0.6
80°	0.0	0.0	0.0	0.2	1.8	3.9	4.8	5.0	3.8	2.6	1.4
77.5°	0.0	0.0	0.0	0.1	0.7	2.1	4.2	6.6	6.6	5.1	3.6
75°	0.0	0.0	0.0	0.3	0.5	0.1	1.5	3.8	5.9	7.2	5.7
72.5°	0.0	0.0	0.0	0.9	2.0	2.1	1.2	1.3	4.2	6.2	7.2
70°	1.1	0.4	0.0	1.2	3.0	4.5	4.1	3.3	2.8	5.4	6.9
67.5°	3.4	3.7	2.7	2.1	3.3	5.1	6.8	6.5	5.7	4.7	6.7
65°	8.5	7.9	7.2	6.4	5.5	5.4	7.1	9.0	8.5	7.3	6.7
62.5°	12.8	12.7	11.7	10.6	9.5	8.2	7.6	10.1	11.1	9.8	8.2
60°	16.3	17.1	16.3	14.9	13.5	11.9	10.8	11.4	12.7	12.3	10.5
57.5°	22.6	22.0	21.7	19.7	17.4	15.6	14.6	14.2	14.6	14.4	12.6
55°	39.9	27.8	28.0	25.8	22.2	19.2	18.4	17.7	16.9	16.6	14.8
52.5°	101.1	56.1	36.0	33.3	28.9	23.7	22.1	21.1	20.0	19.0	16.9
50°	186.7	120.9	68.4	42.9	36.6	31.2	25.9	24.6	23.1	21.5	18.9
47.5°	298.8	207.8	135.0	67.7	47.2	39.0	32.4	28.0	26.2	24.3	20.9
45°	460.3	306.1	212.3	134.1	62.9	53.8	40.0	31.3	29.2	26.8	22.9
42.5°	640.3	449.2	297.8	202.6	120.2	74.5	47.9	38.0	32.2	29.5	25.1
40°	816.9	620.8	400.0	279.3	181.4	99.8	69.0	45.4	35.3	32.4	27.6
37.5°	1012.4	802.3	560.3	361.2	243.8	152.4	94.5	52.9	40.1	35.5	30.2
35°	1254.1	1003.7	720.8	481.2	322.8	201.2	122.9	67.3	49.2	38.7	32.8
32.5°	1495.4	1204.7	894.2	620.8	405.4	246.1	159.9	96.0	60.0	42.0	35.6
30°	1738.3	1388.8	1057.5	750.0	500.5	318.3	199.7	124.0	72.2	45.5	38.4
27.5°	1957.0	1562.6	1210.4	884.9	612.0	394.5	241.4	151.0	85.9	51.5	41.2
25°	2204.1	1750.4	1360.8	1014.0	714.0	473.9	284.1	177.5	105.8	62.0	44.0
22.5°	2522.0	1943.3	1500.2	1130.9	815.0	549.8	339.1	212.6	127.7	73.1	46.9
20°	2838.1	2131.8	1636.7	1277.5	924.9	635.3	402.7	247.4	148.4	84.6	49.7
17.5°	3148.2	2373.4	1835.4	1427.1	1042.4	715.3	462.1	281.6	168.0	96.4	52.6
15°	3426.4	2650.1	2030.8	1568.7	1157.4	789.2	517.0	314.9	186.4	108.1	56.2
12.5°	3659.9	2888.7	2214.7	1701.3	1268.3	856.8	567.2	346.7	203.4	121.2	61.3
10°	3852.9	3090.5	2385.2	1823.7	1373.0	917.5	612.4	378.6	223.2	135.1	66.6
7.5°	4007.1	3257.1	2540.3	1934.8	1468.1	974.4	661.0	412.2	242.4	148.3	72.0
5°	4123.0	3387.2	2660.3	2014.5	1543.6	1026.6	705.9	443.1	260.3	160.7	77.3
2.5°	4198.4	3482.9	2749.2	2077.0	1605.1	1070.5	745.3	470.8	276.6	171.9	82.5
0°	4242.8	3551.4	2816.4	2125.0	1652.0	1106.2	778.7	494.9	291.1	181.9	87.3
-2.5°	4282.5	3596.3	2875.1	2208.7	1684.2	1164.6	800.1	516.6	314.1	189.1	96.2
-5°	4295.5	3616.0	2913.5	2273.2	1703.7	1211.9	815.1	534.3	334.2	194.9	104.3
-7.5°	4273.4	3604.2	2927.0	2309.9	1712.8	1245.3	823.9	548.2	350.6	199.5	111.4
-10°	4224.2	3565.1	2909.2	2298.8	1725.1	1255.8	829.0	558.4	362.5	202.9	117.3
-12.5°	4151.2	3506.2	2870.9	2274.4	1723.0	1249.1	842.6	566.3	368.7	205.2	121.7
-15°	4055.6	3429.1	2812.4	2238.4	1702.3	1234.1	846.1	569.2	368.1	209.4	124.3
-17.5°	3943.0	3335.6	2734.1	2192.4	1661.9	1211.5	838.4	565.7	364.4	215.7	127.0
-20°	3830.4	3231.8	2641.1	2138.2	1601.0	1182.1	819.0	555.2	357.7	219.8	129.6

Classified

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

Scaled Data Report



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3698.2	3112.6	2560.9	2062.4	1535.1	1146.7	787.1	537.6	348.1	221.6	130.8
-25°	3546.4	2973.3	2464.3	1958.3	1483.3	1106.6	754.1	512.4	335.8	220.9	130.4
-27.5°	3374.8	2824.6	2350.6	1844.3	1429.3	1050.7	722.9	494.0	325.2	217.8	128.4
-30°	3183.4	2684.6	2214.6	1734.6	1363.4	990.2	682.0	473.3	320.5	213.7	124.9
-32.5°	2977.1	2526.9	2068.5	1651.1	1288.4	927.4	645.9	450.0	312.5	208.6	125.1
-35°	2783.5	2355.3	1919.3	1554.6	1208.9	890.2	621.8	424.1	301.3	201.3	125.7
-37.5°	2576.3	2175.4	1801.2	1454.0	1125.2	847.5	602.2	412.5	286.7	192.0	125.3
-40°	2376.8	2004.7	1664.5	1358.1	1063.2	799.5	571.5	399.5	272.7	180.7	123.6
-42.5°	2175.1	1844.3	1533.7	1253.8	1004.8	752.9	532.1	379.7	261.4	174.2	120.7
-45°	1989.3	1678.6	1394.6	1162.9	939.8	693.4	501.8	354.9	247.5	169.5	118.1
-47.5°	1794.0	1509.9	1267.4	1063.3	854.9	628.7	463.3	335.2	230.8	163.4	116.4
-50°	1592.5	1350.2	1148.5	953.9	750.9	574.7	422.2	311.9	224.8	158.5	113.6
-52.5°	1416.1	1209.8	1026.9	841.4	672.4	511.6	391.0	286.8	216.8	154.5	109.6
-55°	1264.2	1076.4	907.1	749.1	597.7	465.1	355.7	274.9	207.0	149.4	104.7
-57.5°	1129.9	952.6	808.7	666.9	535.3	420.4	330.8	260.7	196.6	142.4	100.3
-60°	999.4	853.9	719.4	593.0	477.1	381.8	311.4	244.3	184.4	133.5	95.4
-62.5°	878.8	750.7	633.7	519.4	424.9	350.4	289.1	225.3	169.8	122.4	88.8
-65°	752.3	643.1	544.2	454.5	377.6	313.6	260.3	203.7	150.7	109.0	80.5
-67.5°	620.8	540.6	463.5	388.7	325.8	272.2	227.3	175.0	128.3	93.6	70.7
-70°	516.9	446.4	381.0	322.4	271.1	227.3	185.7	141.4	103.5	80.2	60.2
-72.5°	411.5	354.0	300.4	253.7	217.1	179.9	142.2	108.2	85.8	66.1	49.2
-75°	304.6	265.7	230.8	198.3	165.4	132.9	108.4	86.1	67.6	51.5	41.5
-77.5°	221.0	192.9	167.2	146.7	124.0	102.4	81.8	63.1	51.2	42.7	34.9
-80°	150.2	135.4	121.2	106.8	88.6	71.4	59.0	48.6	41.2	34.4	28.1
-82.5°	94.6	86.7	79.6	72.4	61.8	52.2	43.8	36.6	31.1	25.9	22.8
-85°	56.1	51.9	47.8	43.7	37.8	32.7	30.2	27.9	25.5	23.1	20.7
-87.5°	31.7	31.2	30.7	30.2	28.7	27.3	26.0	24.9	22.8	20.7	18.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.5

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Scaled Data Report



REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	14.6	12.8	11.0	9.1	7.3	7.3	7.3
87.5°	5.4	6.1	6.7	7.1	7.3	7.3	7.3
85°	3.5	4.9	6.0	6.8	7.3	7.3	7.3
82.5°	1.7	3.8	5.4	6.6	7.3	7.3	7.3
80°	0.4	2.7	4.9	6.4	7.3	7.3	7.3
77.5°	2.3	2.4	4.3	6.2	7.3	7.3	7.3
75°	4.1	3.6	4.0	6.0	7.3	7.3	7.3
72.5°	5.8	4.7	4.6	5.9	7.3	7.3	7.3
70°	7.3	5.8	5.2	5.8	7.3	7.3	7.3
67.5°	7.5	6.8	5.8	6.1	7.3	7.3	7.3
65°	7.8	7.6	6.4	6.3	7.3	7.3	7.3
62.5°	8.2	8.1	6.8	6.6	7.3	7.3	7.3
60°	8.7	8.8	7.3	6.7	7.3	7.3	7.3
57.5°	10.4	9.5	8.0	6.9	7.4	7.3	7.3
55°	12.2	10.2	8.7	7.1	7.5	7.3	7.3
52.5°	14.0	11.2	9.5	7.2	7.6	7.3	7.3
50°	15.8	12.7	10.3	7.3	7.8	7.3	7.3
47.5°	17.6	14.1	11.2	7.5	8.0	7.3	7.3
45°	19.3	15.5	12.0	8.1	8.2	7.3	7.3
42.5°	20.9	16.9	12.9	8.8	8.4	7.3	7.3
40°	22.5	18.2	13.9	9.7	8.7	7.3	7.3
37.5°	24.1	19.5	15.0	10.7	9.0	7.3	7.3
35°	25.6	20.8	16.0	11.6	9.3	7.3	7.3
32.5°	27.3	22.0	17.0	12.5	9.6	7.3	7.3
30°	29.5	23.2	17.9	13.4	10.0	7.3	7.3
27.5°	31.6	24.3	19.0	14.3	10.3	7.3	7.3
25°	33.8	25.4	20.2	15.2	10.7	7.3	7.3
22.5°	35.9	26.5	21.2	16.0	11.1	7.3	7.3
20°	38.0	27.8	22.3	16.8	11.5	7.3	7.3
17.5°	40.1	29.1	23.3	17.5	11.9	7.3	7.3
15°	42.1	30.3	24.3	18.2	12.3	7.3	7.3
12.5°	44.0	31.5	25.2	18.9	12.7	7.3	7.3
10°	45.7	32.6	26.1	19.6	13.1	7.3	7.3
7.5°	47.3	33.7	26.9	20.2	13.5	7.3	7.3
5°	48.6	34.6	27.7	20.8	13.9	7.3	7.3
2.5°	49.9	35.6	28.4	21.3	14.3	7.3	7.3
0°	50.9	36.4	29.1	21.8	14.6	7.3	7.3
-2.5°	53.7	37.2	29.7	21.8	14.6	7.3	7.3
-5°	56.3	37.9	30.3	21.7	14.5	7.3	7.3
-7.5°	58.6	38.5	30.7	21.6	14.5	7.3	7.3
-10°	60.5	39.1	31.1	21.5	14.4	7.3	7.3
-12.5°	61.9	39.5	31.3	21.3	14.3	7.3	7.3
-15°	62.8	39.9	31.4	21.1	14.1	7.3	7.3
-17.5°	63.1	40.3	31.3	20.8	13.9	7.3	7.3
-20°	64.8	40.5	31.1	20.5	13.7	7.3	7.3

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REPORT NUMBER: P627530 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-740-U-VWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	68.9	40.7	30.8	20.1	13.5	7.3	7.3
-25°	72.3	43.3	30.2	19.8	13.2	7.3	7.3
-27.5°	75.0	46.7	29.5	19.3	12.9	7.3	7.3
-30°	76.8	49.6	28.8	18.9	12.6	7.3	7.3
-32.5°	77.8	52.0	29.8	18.4	12.3	7.3	7.3
-35°	79.9	53.9	30.6	17.9	12.0	7.3	7.3
-37.5°	82.0	55.1	31.1	17.3	11.6	7.3	7.3
-40°	83.3	55.6	31.3	16.7	11.2	7.3	7.3
-42.5°	83.7	55.6	31.5	16.4	10.8	7.3	7.3
-45°	83.3	55.2	31.7	16.5	10.3	7.3	7.3
-47.5°	82.1	54.3	31.5	16.4	9.9	7.3	7.3
-50°	80.4	53.1	30.9	16.2	9.4	7.3	7.3
-52.5°	78.1	51.4	30.0	15.9	8.9	7.3	7.3
-55°	75.3	49.3	28.7	15.4	8.4	7.3	7.3
-57.5°	72.0	46.7	27.1	14.9	7.8	7.3	7.3
-60°	68.0	43.5	25.2	14.2	7.3	7.3	7.3
-62.5°	62.5	39.8	23.8	13.4	7.3	7.3	7.3
-65°	56.4	35.7	22.3	12.5	7.3	7.3	7.3
-67.5°	49.6	32.1	20.5	11.6	7.3	7.3	7.3
-70°	42.2	29.1	18.7	10.5	7.3	7.3	7.3
-72.5°	37.3	25.9	16.6	10.3	7.3	7.3	7.3
-75°	32.5	22.6	14.5	10.2	7.3	7.3	7.3
-77.5°	27.4	19.1	13.7	10.1	7.3	7.3	7.3
-80°	22.1	17.2	13.3	9.9	7.3	7.3	7.3
-82.5°	20.0	16.1	12.7	9.8	7.3	7.3	7.3
-85°	18.3	15.1	12.2	9.6	7.3	7.3	7.3
-87.5°	16.5	13.9	11.6	9.4	7.3	7.3	7.3
-90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3

(END OF REPORT)