

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: McGRAW-EDISON

Report Number: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4D-727-U-VWR-VSR-XX

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P627440 (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: 5/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4D-727-U-VWR-VSR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N7 WITH VISOR  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

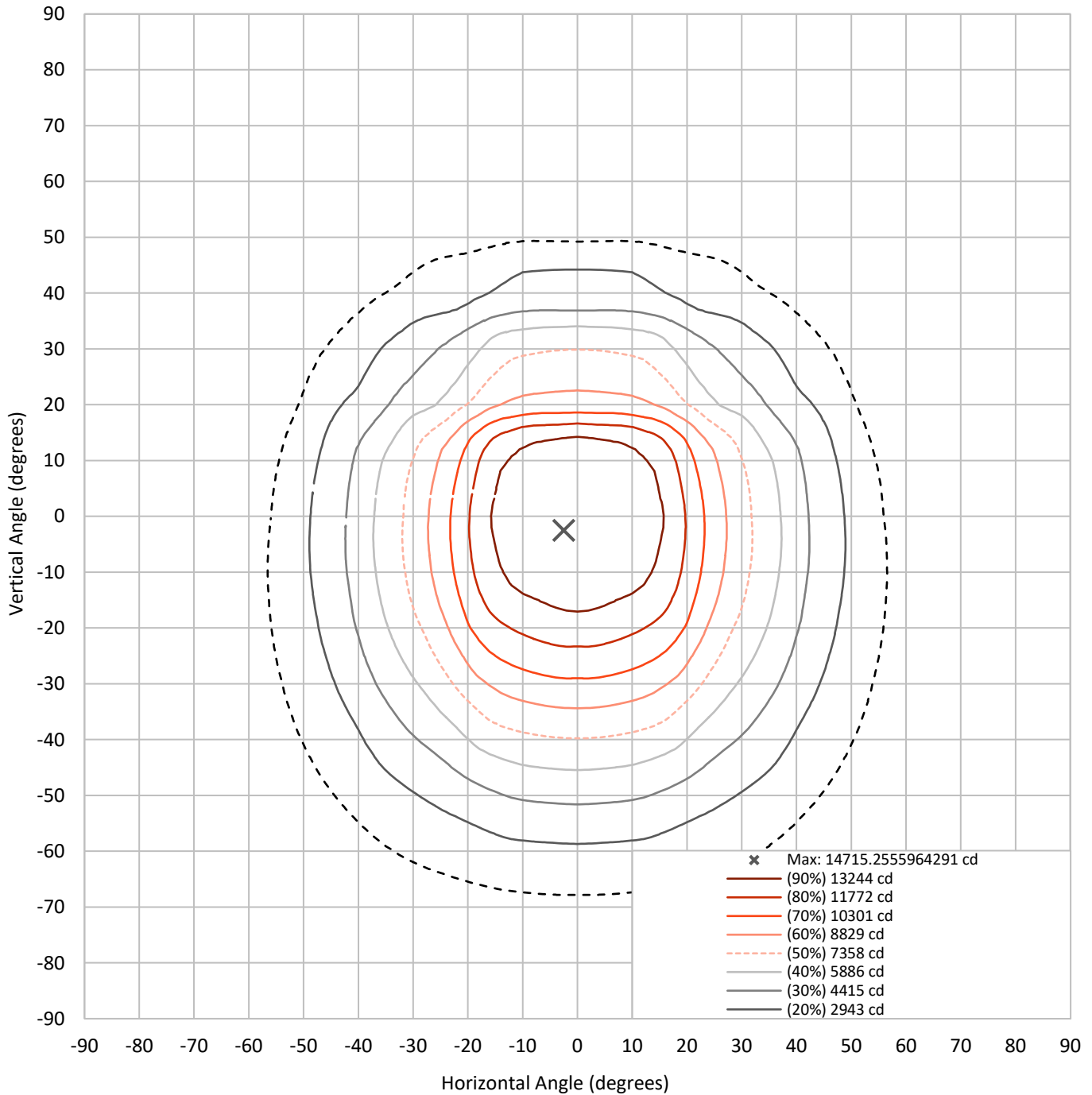
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	19638 lumens	Max Intensity:	14715.3 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	88.7 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:	11361.9 lumens	Field Lumens:	18635.2 lumens
Beam Efficiency:	57.9%	Field Efficiency:	94.9%
Input Watts (W):	221.4		
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





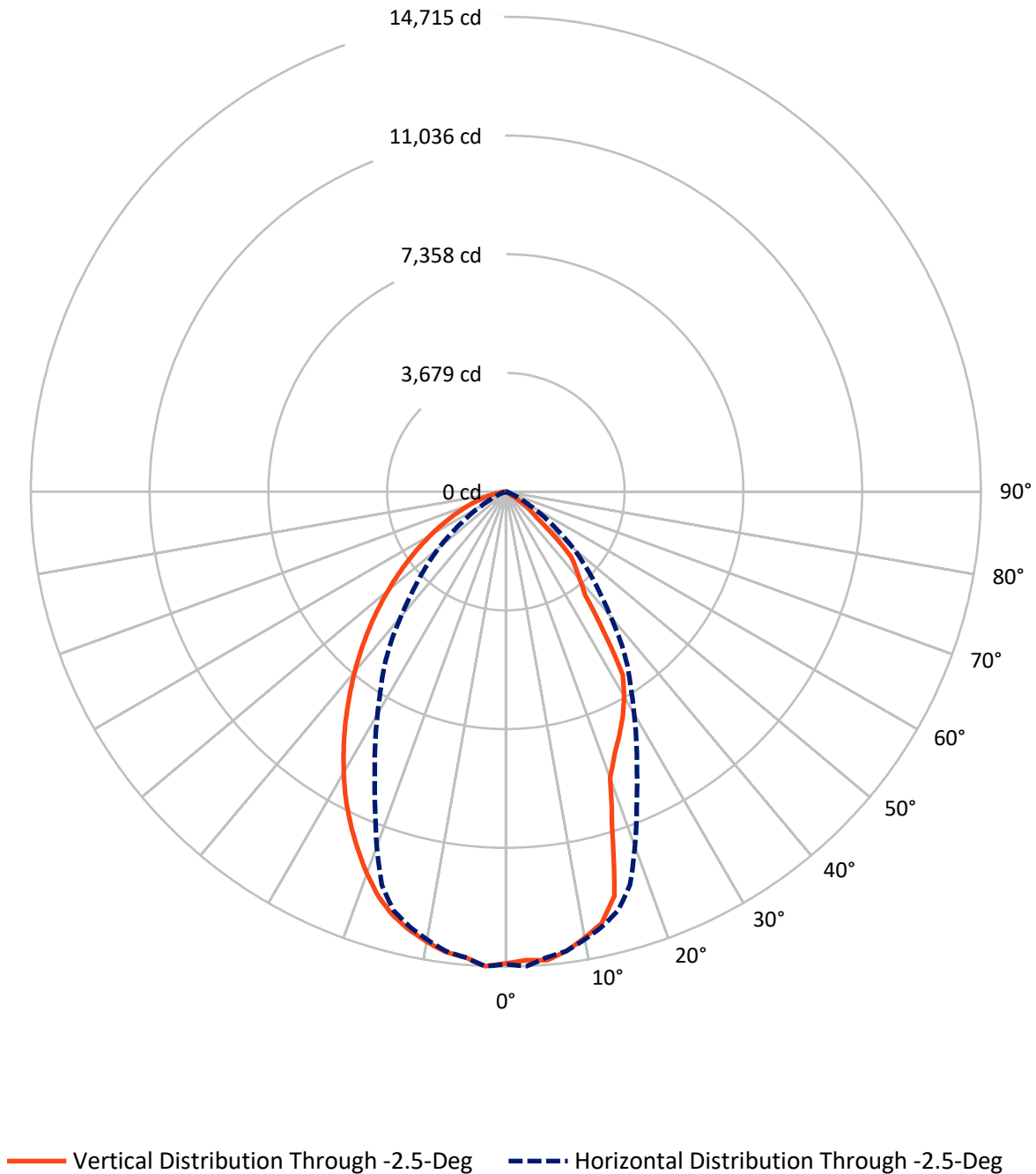
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### Lumen Table

90																			
80	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1										
70																			
60	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2				
50		0.2	0.4	1.8	5.3	10.3	15.3	19.1	19.1	15.3	10.3	5.3	1.8	0.4		0.2			
40	0.3	0.4	2.2	10.1	24.4	43.8	64.7	79.3	79.3	64.7	43.8	24.4	10.1	2.2	0.4	0.3			
30		1.0	7.3	25.5	56.9	92.3	138.3	161.7	161.7	138.3	92.3	56.9	25.5	7.3	1.0				
20	0.6	2.2	14.1	45.2	91.7	145.4	218.1	250.7	250.7	218.1	145.4	91.7	45.2	14.1	2.2	0.6			
10		3.7	21.7	66.9	132.1	217.4	323.7	371.2	371.2	323.7	217.4	132.1	66.9	21.7	3.7				
0	1.0	5.1	28.1	79.4	158.0	259.8	382.2	433.7	433.7	382.2	259.8	158.0	79.4	28.1	5.1	1.0			
-10		6.0	31.0	82.5	162.2	265.8	385.1	435.4	435.4	385.1	265.8	162.2	82.5	31.0	6.0				
-20	1.2	6.3	30.3	78.1	153.0	248.8	357.4	403.8	403.8	357.4	248.8	153.0	78.1	30.3	6.3	1.2			
-30		5.7	26.6	68.1	132.1	211.6	299.6	339.3	339.3	299.6	211.6	132.1	68.1	26.6	5.7				
-40	1.2	4.8	21.2	53.6	104.0	163.2	228.8	259.0	259.0	228.8	163.2	104.0	53.6	21.2	4.8	1.2			
-50		3.9	15.6	38.2	74.5	114.8	158.4	179.7	179.7	158.4	114.8	74.5	38.2	15.6	3.9				
-60	0.9	2.9	10.2	24.5	46.3	71.2	96.8	110.4	110.4	96.8	71.2	46.3	24.5	10.2	2.9	0.9			
-70		2.0	6.2	14.3	25.4	37.8	50.0	56.7	56.7	50.0	37.8	25.4	14.3	6.2	2.0				
-80	0.4	4.6	21.2	46.2	51.6	46.2	21.2	4.6	0.4										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

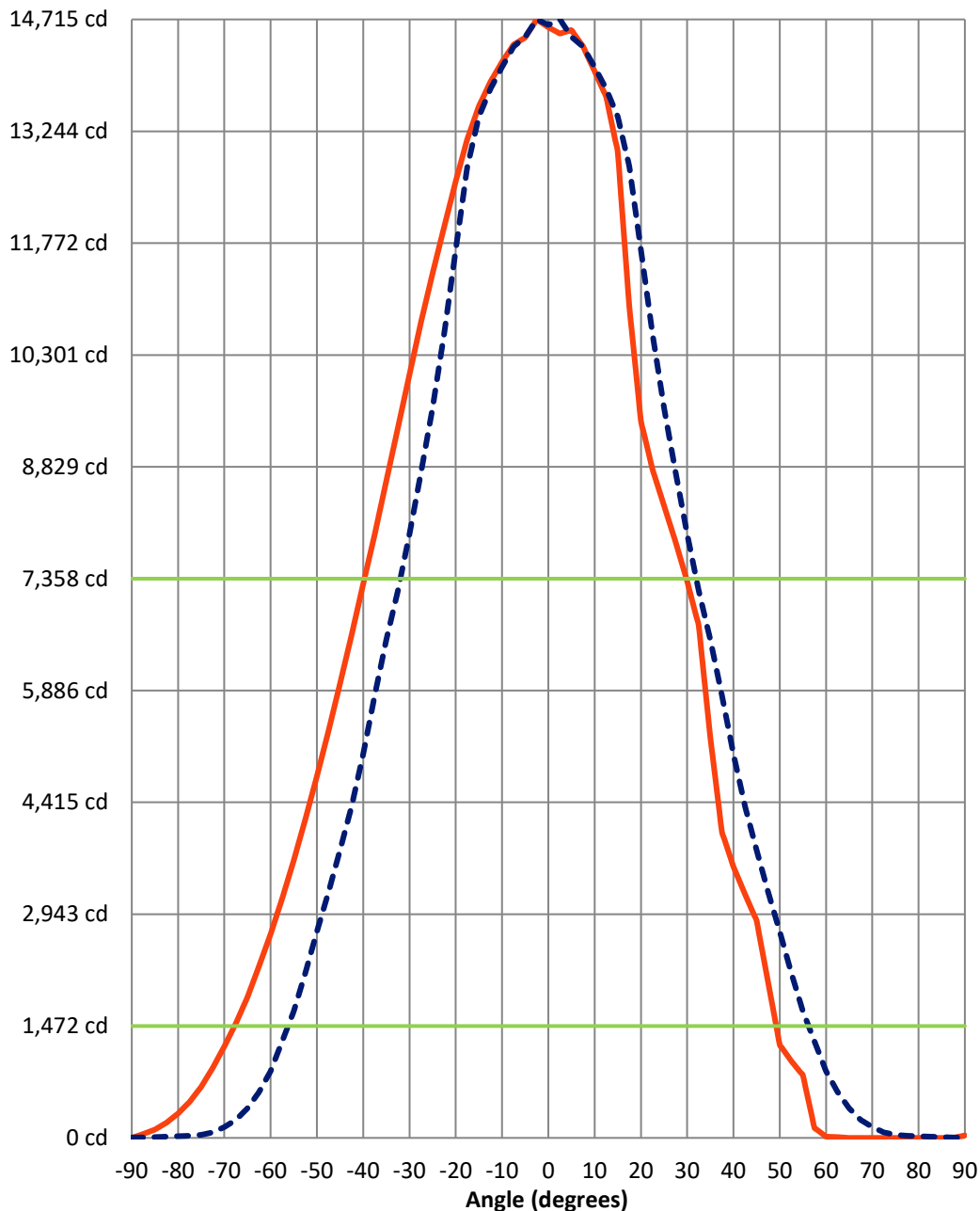
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 63.9°  
 V Angle: 69.6°  
 Lumens: 11361.9  
 Efficiency: 57.9%

**Field:**  
 H Angle: 112.5°  
 V Angle: 117.1°  
 Lumens: 18635.2  
 Efficiency: 94.9%

**Spill:**  
 Lumens: 1002.8  
 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°	5.5	5.5	5.5	6.9	8.3	9.6	11.0	12.4	13.8	15.1	16.5
87.5°	5.5	5.5	5.5	5.3	5.0	4.6	4.1	2.9	1.8	0.9	0.0
85°	5.5	5.5	5.5	5.1	4.6	3.7	2.7	1.7	0.9	0.3	0.0
82.5°	5.5	5.5	5.5	5.0	4.1	2.9	1.3	0.4	0.1	0.8	1.5
80°	5.5	5.5	5.5	4.8	3.7	2.0	0.3	1.1	2.0	2.9	3.8
77.5°	5.5	5.5	5.5	4.7	3.2	1.8	1.7	2.7	3.8	5.0	5.0
75°	5.5	5.5	5.5	4.5	3.0	2.7	3.1	4.3	5.4	4.5	2.9
72.5°	5.5	5.5	5.5	4.4	3.5	3.6	4.4	5.4	4.7	3.2	1.0
70°	5.5	5.5	5.5	4.4	4.0	4.4	5.5	5.2	4.0	2.1	2.5
67.5°	5.5	5.5	5.5	4.6	4.4	5.1	5.7	5.1	3.6	4.3	4.9
65°	5.5	5.5	5.5	4.8	4.8	5.7	5.9	5.0	5.5	6.4	6.8
62.5°	5.5	5.5	5.5	4.9	5.2	6.1	6.2	6.2	7.4	8.3	7.6
60°	5.5	5.5	5.5	5.1	5.5	6.6	6.5	7.9	9.3	9.6	8.6
57.5°	5.5	5.5	5.6	5.2	6.0	7.1	7.8	9.5	10.9	11.0	10.8
55°	5.5	5.5	5.6	5.3	6.6	7.7	9.2	11.1	12.5	12.8	13.4
52.5°	5.5	5.5	5.7	5.4	7.2	8.4	10.6	12.7	14.3	15.1	16.0
50°	5.5	5.5	5.9	5.5	7.8	9.5	11.9	14.3	16.3	17.5	18.6
47.5°	5.5	5.5	6.0	5.6	8.4	10.6	13.3	15.8	18.4	19.8	21.1
45°	5.5	5.5	6.2	6.1	9.1	11.7	14.5	17.3	20.3	22.1	23.7
42.5°	5.5	5.5	6.3	6.6	9.8	12.8	15.8	19.0	22.3	24.4	28.7
40°	5.5	5.5	6.5	7.3	10.5	13.8	17.0	20.9	24.5	26.6	34.3
37.5°	5.5	5.5	6.8	8.0	11.3	14.8	18.2	22.8	26.8	30.3	39.9
35°	5.5	5.5	7.0	8.8	12.1	15.7	19.4	24.8	29.2	37.2	50.8
32.5°	5.5	5.5	7.2	9.5	12.8	16.7	20.6	26.9	31.7	45.3	72.5
30°	5.5	5.5	7.5	10.1	13.5	17.5	22.3	29.0	34.3	54.5	93.6
27.5°	5.5	5.5	7.8	10.8	14.4	18.4	23.9	31.1	38.9	64.8	114.0
25°	5.5	5.5	8.1	11.4	15.2	19.2	25.5	33.2	46.8	79.9	134.0
22.5°	5.5	5.5	8.4	12.1	16.1	20.0	27.2	35.4	55.2	96.4	160.5
20°	5.5	5.5	8.7	12.7	16.9	21.0	28.7	37.5	63.9	112.1	186.7
17.5°	5.5	5.5	9.0	13.2	17.6	22.0	30.3	39.7	72.7	126.9	212.6
15°	5.5	5.5	9.3	13.8	18.4	22.9	31.8	42.4	81.6	140.7	237.7
12.5°	5.5	5.5	9.6	14.3	19.1	23.8	33.2	46.2	91.5	153.5	261.7
10°	5.5	5.5	9.9	14.8	19.7	24.7	34.5	50.2	102.0	168.5	285.8
7.5°	5.5	5.5	10.2	15.3	20.4	25.4	35.7	54.3	112.0	183.0	311.1
5°	5.5	5.5	10.5	15.7	20.9	26.2	36.8	58.4	121.3	196.5	334.4
2.5°	5.5	5.5	10.7	16.1	21.5	26.9	37.7	62.3	129.8	208.7	355.3
0°	5.5	5.5	11.0	16.5	22.0	27.5	38.5	65.9	137.3	219.7	373.5
-2.5°	5.5	5.5	11.0	16.4	22.9	28.6	42.6	78.8	147.2	252.3	403.2
-5°	5.5	5.5	10.9	16.4	23.2	29.1	44.3	84.1	150.6	264.7	413.7
-7.5°	5.5	5.5	10.8	16.2	23.5	29.5	45.7	88.6	153.1	273.7	421.4
-10°	5.5	5.5	10.7	16.1	23.6	29.9	46.7	91.9	154.9	278.4	427.4
-12.5°	5.5	5.5	10.6	15.9	23.7	30.2	47.4	93.9	158.1	277.9	429.6
-15°	5.5	5.5	10.5	15.7	23.7	30.4	47.6	95.9	162.8	275.1	427.0
-17.5°	5.5	5.5	10.3	15.5	23.5	30.6	48.9	97.9	165.9	270.0	419.1
-20°	5.5	5.5	10.3	15.5	23.5	30.6	48.9	97.9	165.9	270.0	419.1

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REPORT NUMBER: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
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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°	5.5	5.5	10.2	15.2	23.3	30.7	52.0	98.7	167.3	262.8	405.8
-25°	5.5	5.5	10.0	14.9	22.8	32.7	54.6	98.4	166.8	253.5	386.8
-27.5°	5.5	5.5	9.8	14.6	22.3	35.3	56.6	96.9	164.4	245.5	372.9
-30°	5.5	5.5	9.5	14.3	21.7	37.5	58.0	94.2	161.4	242.0	357.3
-32.5°	5.5	5.5	9.3	13.9	22.5	39.3	58.7	94.4	157.4	235.9	339.7
-35°	5.5	5.5	9.0	13.5	23.1	40.7	60.3	94.9	151.9	227.4	320.1
-37.5°	5.5	5.5	8.7	13.1	23.5	41.6	61.9	94.5	144.9	216.4	311.4
-40°	5.5	5.5	8.4	12.6	23.7	41.9	62.9	93.3	136.4	205.8	301.6
-42.5°	5.5	5.5	8.1	12.4	23.8	42.0	63.2	91.2	131.5	197.3	286.6
-45°	5.5	5.5	7.8	12.4	23.9	41.6	62.9	89.2	127.9	186.8	267.8
-47.5°	5.5	5.5	7.4	12.4	23.8	41.0	61.9	87.9	123.4	174.1	253.0
-50°	5.5	5.5	7.1	12.2	23.3	40.1	60.6	85.8	119.7	169.6	235.4
-52.5°	5.5	5.5	6.7	12.0	22.6	38.8	58.9	82.7	116.6	163.7	216.4
-55°	5.5	5.5	6.3	11.6	21.7	37.2	56.8	79.0	112.8	156.2	207.4
-57.5°	5.5	5.5	5.9	11.2	20.5	35.2	54.3	75.7	107.5	148.4	196.7
-60°	5.5	5.5	5.5	10.7	19.0	32.8	51.3	71.9	100.8	139.2	184.4
-62.5°	5.5	5.5	5.5	10.1	18.0	30.0	47.2	67.0	92.4	128.2	170.1
-65°	5.5	5.5	5.5	9.5	16.8	26.9	42.5	60.7	82.3	113.8	153.8
-67.5°	5.5	5.5	5.5	8.7	15.5	24.2	37.4	53.3	70.6	96.9	132.1
-70°	5.5	5.5	5.5	7.9	14.1	22.0	31.9	45.4	60.5	78.1	106.8
-72.5°	5.5	5.5	5.5	7.8	12.6	19.6	28.2	37.2	49.9	64.8	81.7
-75°	5.5	5.5	5.5	7.7	11.0	17.1	24.5	31.3	38.9	51.0	65.0
-77.5°	5.5	5.5	5.5	7.6	10.4	14.4	20.7	26.4	32.2	38.6	47.6
-80°	5.5	5.5	5.5	7.5	10.0	13.0	16.8	21.2	26.0	31.1	36.7
-82.5°	5.5	5.5	5.5	7.4	9.6	12.2	15.1	17.2	19.6	23.5	27.7
-85°	5.5	5.5	5.5	7.2	9.2	11.4	13.8	15.6	17.5	19.3	21.1
-87.5°	5.5	5.5	5.5	7.1	8.7	10.5	12.4	14.0	15.6	17.2	18.8
-90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.1	2.7	1.4	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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	17.9	19.3	20.6
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°	1.6	1.4	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.6	2.9	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.1	1.6	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1.2	0.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.9	1.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3.1	3.4	2.3	0.9	0.0	0.3	0.8	0.6	0.0	0.3	0.7
67.5°	5.1	3.8	2.5	1.6	2.1	2.8	2.6	2.8	3.0	3.3	2.8
65°	5.4	4.1	4.1	4.8	5.4	5.9	6.4	6.8	5.7	5.0	5.1
62.5°	5.7	6.2	7.1	8.0	8.8	9.6	9.6	8.6	6.5	8.1	9.3
60°	8.2	9.0	10.1	11.2	12.3	12.9	12.4	12.5	13.9	16.1	30.9
57.5°	11.0	11.8	13.1	14.9	16.4	16.6	17.1	18.6	43.6	71.1	78.6
55°	13.9	14.5	16.8	19.5	21.1	21.0	30.2	63.5	95.9	132.8	146.4
52.5°	16.7	17.9	21.9	25.1	27.2	42.4	76.3	121.6	169.4	211.8	266.6
50°	19.6	23.6	27.6	32.4	51.7	91.2	140.9	202.8	274.7	342.5	412.0
47.5°	24.5	29.4	35.7	51.1	101.9	156.8	225.5	325.0	413.8	495.8	591.0
45°	30.2	40.6	47.5	101.2	160.2	231.1	347.4	469.1	549.6	659.4	827.8
42.5°	36.2	56.2	90.7	152.9	224.8	339.1	483.3	587.0	694.2	872.1	1049.2
40°	52.1	75.4	136.9	210.8	301.9	468.6	616.6	734.0	880.3	1077.6	1262.5
37.5°	71.4	115.0	184.0	272.6	422.9	605.6	764.1	931.8	1100.0	1286.1	1629.0
35°	92.8	151.9	243.7	363.2	544.0	757.5	946.6	1133.9	1327.8	1694.1	2034.3
32.5°	120.7	185.8	306.0	468.6	674.9	909.3	1128.7	1345.3	1656.3	2070.7	2412.1
30°	150.8	240.2	377.8	566.0	798.2	1048.3	1312.1	1574.3	1985.9	2328.8	2699.5
27.5°	182.2	297.8	462.0	667.9	913.6	1179.4	1477.2	1851.3	2218.4	2557.2	2964.6
25°	214.5	357.7	538.9	765.3	1027.1	1321.2	1663.7	2119.4	2406.5	2781.0	3205.9
22.5°	256.0	415.0	615.2	853.6	1132.3	1466.8	1903.6	2361.2	2699.1	3014.1	3429.2
20°	303.9	479.6	698.1	964.3	1235.4	1609.1	2142.2	2623.5	3020.9	3381.6	3762.9
17.5°	348.8	539.9	786.8	1077.2	1385.4	1791.5	2376.3	2908.9	3346.3	3748.2	4224.3
15°	390.2	595.7	873.6	1184.1	1532.8	2000.4	2586.2	3171.2	3670.6	4122.8	4663.8
12.5°	428.1	646.7	957.3	1284.1	1671.7	2180.4	2762.5	3333.4	3882.4	4471.7	5085.6
10°	462.2	692.6	1036.3	1376.5	1800.4	2332.7	2908.2	3468.7	4022.6	4646.2	5328.3
7.5°	498.9	735.5	1108.0	1460.4	1917.5	2458.6	3024.5	3577.3	4135.9	4785.8	5486.1
5°	532.8	774.9	1165.1	1520.6	2008.0	2556.7	3112.1	3659.8	4221.9	4889.9	5605.5
2.5°	562.5	808.1	1211.5	1567.8	2075.1	2628.9	3169.0	3728.6	4285.8	4974.4	5696.7
0°	587.8	835.0	1246.9	1604.0	2125.8	2680.6	3202.5	3773.8	4323.1	5031.7	5756.8
-2.5°	604.0	879.1	1271.2	1667.2	2170.1	2714.5	3232.5	3786.4	4363.2	5049.8	5824.1
-5°	615.3	914.7	1285.9	1715.9	2199.1	2729.4	3242.3	3776.6	4373.9	5045.2	5834.1
-7.5°	621.9	939.9	1292.8	1743.5	2209.4	2720.5	3225.6	3758.0	4356.4	5028.0	5790.4
-10°	625.7	947.8	1302.1	1735.2	2195.9	2691.0	3188.5	3714.4	4306.6	4971.8	5707.5
-12.5°	636.0	942.8	1300.5	1716.7	2167.0	2646.5	3133.4	3645.3	4223.6	4876.0	5593.0
-15°	638.6	931.5	1284.9	1689.5	2122.9	2588.4	3061.2	3550.6	4121.2	4782.6	5466.3
-17.5°	632.8	914.4	1254.4	1654.9	2063.8	2517.8	2976.2	3465.2	4025.2	4675.0	5333.2
-20°	618.1	892.2	1208.5	1613.9	1993.6	2439.4	2891.2	3375.7	3914.7	4525.5	5184.3

Classified

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

Scaled Data Report



REPORT NUMBER: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLD-SA4D-727-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°	594.1	865.5	1158.8	1556.7	1933.0	2349.4	2791.5	3253.8	3776.4	4331.8	4984.2
-25°	569.2	835.2	1119.6	1478.1	1860.0	2244.3	2676.9	3104.7	3613.8	4159.3	4738.2
-27.5°	545.6	793.0	1078.8	1392.1	1774.2	2132.1	2547.4	2964.6	3431.0	3965.6	4498.7
-30°	514.8	747.4	1029.1	1309.3	1671.6	2026.4	2402.9	2813.5	3232.9	3740.3	4264.7
-32.5°	487.6	700.0	972.5	1246.2	1561.3	1907.3	2247.2	2638.5	3047.8	3480.3	3998.5
-35°	469.4	672.0	912.5	1173.4	1448.7	1777.8	2101.0	2441.1	2837.5	3243.4	3698.4
-37.5°	454.6	639.8	849.3	1097.5	1359.5	1642.0	1944.6	2257.4	2603.4	3012.6	3440.4
-40°	431.4	603.5	802.5	1025.1	1256.4	1513.2	1794.0	2077.3	2377.2	2776.9	3199.0
-42.5°	401.6	568.4	758.4	946.4	1157.7	1392.1	1641.7	1908.5	2196.7	2543.9	2931.9
-45°	378.8	523.4	709.4	877.8	1052.6	1267.0	1501.5	1743.1	2014.9	2313.0	2661.5
-47.5°	349.7	474.5	645.3	802.7	956.7	1139.7	1354.1	1582.8	1823.5	2092.2	2377.8
-50°	318.7	433.8	566.8	720.0	866.9	1019.1	1202.0	1413.4	1631.9	1866.1	2120.9
-52.5°	295.1	386.1	507.5	635.1	775.1	913.2	1068.9	1250.2	1445.3	1640.9	1865.1
-55°	268.4	351.1	451.1	565.5	684.7	812.4	954.2	1113.0	1272.1	1451.8	1630.6
-57.5°	249.6	317.3	404.0	503.4	610.4	719.0	852.9	987.1	1134.4	1283.1	1431.5
-60°	235.0	288.2	360.1	447.6	543.0	644.5	754.4	878.4	1005.1	1126.5	1254.8
-62.5°	218.2	264.5	320.7	392.1	478.3	566.6	663.3	769.6	884.3	986.5	1085.9
-65°	196.5	236.7	284.9	343.0	410.8	485.4	567.8	657.4	756.5	839.5	920.7
-67.5°	171.6	205.4	245.9	293.3	349.8	408.1	468.6	544.3	624.8	692.4	758.6
-70°	140.2	171.6	204.6	243.3	287.6	336.9	390.2	445.2	500.3	555.5	616.1
-72.5°	107.3	135.8	163.9	191.5	226.8	267.2	310.6	356.7	404.8	452.1	498.1
-75°	81.8	100.3	124.8	149.7	174.2	200.6	229.9	266.6	311.3	357.1	399.1
-77.5°	61.7	77.3	93.6	110.7	126.2	145.6	166.8	189.6	226.5	268.8	311.6
-80°	44.5	53.8	66.8	80.6	91.5	102.2	113.3	124.9	152.3	186.4	222.8
-82.5°	33.1	39.4	46.6	54.6	60.1	65.4	71.4	79.0	99.4	122.4	146.7
-85°	22.8	24.7	28.6	33.0	36.1	39.2	42.4	45.6	56.6	68.9	82.0
-87.5°	19.7	20.6	21.7	22.8	23.2	23.6	23.9	24.3	28.0	31.8	35.8
-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: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-727-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	22.0	23.4	24.8	26.1	27.5	28.9	30.3	31.6	33.0	33.0	33.0
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°	0.5	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2.5	2.8	2.9	2.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5.8	5.5	4.1	2.7	1.3	2.1	3.3	4.0	4.0	3.6	2.8
62.5°	8.7	8.0	7.2	8.4	10.0	11.6	11.1	10.5	9.8	9.3	9.6
60°	32.5	21.7	25.0	31.4	29.4	20.1	33.1	37.5	31.9	21.9	21.1
57.5°	82.4	79.5	91.0	133.0	146.4	133.3	159.3	193.5	192.5	165.8	164.9
55°	175.4	235.4	307.7	319.4	369.8	470.7	549.3	514.9	514.6	540.5	624.0
52.5°	333.2	389.8	410.9	467.1	572.3	648.7	697.8	748.6	804.3	861.1	918.7
50°	489.0	543.9	606.3	663.8	809.5	887.9	874.8	980.1	1114.8	1198.9	1242.1
47.5°	717.3	803.8	935.6	1142.0	1250.8	1329.5	1427.2	1546.4	1700.7	1910.0	2071.2
45°	986.0	1122.1	1326.0	1545.4	1714.2	1791.1	1902.9	2087.5	2333.5	2573.1	2748.0
42.5°	1205.7	1392.4	1622.5	1832.1	1969.7	2096.0	2240.8	2396.4	2678.3	2934.1	3136.4
40°	1492.4	1637.9	1895.9	2093.5	2216.7	2341.9	2571.4	2804.4	3069.4	3307.8	3473.5
37.5°	1855.8	2019.5	2287.9	2511.3	2630.0	2674.2	3064.5	3388.9	3604.3	3908.6	4008.1
35°	2246.1	2515.6	2857.6	3147.3	3263.6	3495.8	3897.9	4350.4	4840.8	5021.2	5174.9
32.5°	2681.6	3014.1	3478.2	3789.1	3955.0	4307.3	4816.2	5299.3	5940.5	6288.5	6392.5
30°	3080.1	3461.5	3860.4	4162.6	4446.4	4870.7	5334.7	5930.4	6523.2	6968.2	7106.4
27.5°	3372.4	3794.5	4178.0	4461.0	4781.2	5238.6	5817.3	6420.5	7002.5	7456.4	7617.7
25°	3651.5	4128.6	4432.2	4761.3	5137.2	5635.8	6277.0	6947.3	7520.5	7904.2	8102.0
22.5°	3968.9	4439.4	4765.3	5044.0	5535.6	6110.1	6705.3	7462.6	8070.0	8376.1	8590.5
20°	4296.6	4828.8	5332.3	5591.6	6016.9	6744.3	7410.6	8125.6	8712.1	9031.1	9257.0
17.5°	4753.7	5432.0	6049.5	6416.6	6872.2	7741.9	8573.3	9296.6	10112.4	10400.6	10676.6
15°	5235.8	6020.8	6744.2	7325.8	7914.2	8775.9	9846.2	10719.0	11649.9	12065.7	12535.6
12.5°	5716.3	6459.2	7114.6	7864.9	8694.1	9456.4	10475.3	11562.2	12406.9	12937.1	13253.6
10°	6075.5	6765.5	7396.1	8148.2	8975.9	9838.2	10850.7	11964.8	12849.1	13301.5	13559.8
7.5°	6269.4	6929.8	7595.0	8357.1	9181.1	10099.4	11142.7	12248.0	13152.2	13590.6	13845.6
5°	6413.4	7047.6	7736.4	8538.7	9371.8	10303.0	11344.8	12437.0	13261.4	13727.3	14049.7
2.5°	6500.5	7122.3	7826.5	8656.1	9491.2	10461.1	11553.2	12685.3	13406.7	13781.5	14078.0
0°	6525.8	7152.0	7877.1	8717.5	9574.5	10552.2	11634.4	12755.0	13485.5	13848.1	14150.2
-2.5°	6554.2	7199.0	7944.0	8757.3	9607.1	10582.1	11686.7	12778.6	13435.8	13801.6	14089.0
-5°	6534.4	7202.6	7945.4	8724.4	9579.7	10546.9	11607.3	12628.3	13315.8	13711.3	13997.0
-7.5°	6475.3	7153.0	7888.1	8636.8	9475.8	10454.0	11509.9	12493.0	13189.5	13606.5	13919.2
-10°	6389.2	7047.2	7787.3	8545.6	9374.5	10305.7	11345.4	12322.6	12989.2	13432.0	13796.5
-12.5°	6293.9	6938.2	7651.6	8379.0	9198.7	10118.4	11125.7	12050.9	12713.5	13196.5	13456.9
-15°	6152.6	6796.5	7478.5	8182.1	8981.1	9873.3	10835.6	11723.2	12373.8	12766.8	13054.7
-17.5°	5972.9	6604.7	7251.2	7918.5	8671.3	9550.0	10518.1	11393.4	11923.9	12274.9	12557.7
-20°	5780.3	6364.6	6977.1	7606.8	8336.5	9206.9	10157.7	10921.2	11421.1	11758.4	12025.5



REPORT NUMBER: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-727-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°	5560.4	6123.1	6683.8	7285.7	8001.2	8799.2	9639.0	10376.8	10914.3	11221.5	11468.4
-25°	5309.4	5856.7	6389.2	6970.6	7628.1	8345.4	9126.3	9851.4	10332.8	10659.1	10903.9
-27.5°	5039.1	5553.3	6073.4	6595.6	7186.7	7901.3	8624.5	9298.1	9709.0	10038.0	10284.2
-30°	4769.3	5231.8	5713.0	6207.3	6762.1	7406.5	8082.9	8649.3	9082.7	9402.3	9630.9
-32.5°	4476.9	4915.8	5342.1	5804.1	6326.5	6894.4	7488.0	8026.8	8489.9	8782.6	8975.2
-35°	4177.4	4602.3	4992.5	5411.8	5872.6	6362.7	6910.6	7442.0	7899.3	8130.9	8318.6
-37.5°	3865.4	4289.1	4659.0	5009.4	5406.3	5860.2	6393.9	6900.8	7295.9	7495.0	7664.2
-40°	3594.2	3967.2	4300.1	4635.3	4958.1	5361.1	5859.2	6350.0	6667.0	6861.0	7018.2
-42.5°	3330.9	3645.5	3918.2	4218.6	4541.6	4938.9	5340.8	5752.4	6007.2	6222.6	6388.2
-45°	3024.1	3305.4	3561.1	3811.0	4105.5	4468.3	4833.4	5163.0	5401.7	5609.8	5771.1
-47.5°	2684.9	2956.5	3204.8	3428.2	3701.9	4004.5	4311.9	4586.2	4821.9	5027.6	5171.5
-50°	2368.8	2611.4	2853.9	3080.0	3317.2	3562.0	3811.3	4052.1	4275.7	4475.6	4598.1
-52.5°	2085.6	2309.5	2521.4	2719.1	2926.6	3133.4	3339.9	3560.4	3766.3	3955.4	4053.2
-55°	1829.3	2031.2	2222.4	2389.0	2555.5	2719.5	2896.5	3100.1	3289.7	3464.8	3535.0
-57.5°	1599.3	1772.0	1941.3	2082.2	2218.1	2348.6	2504.0	2675.8	2841.7	2991.8	3049.3
-60°	1387.8	1524.8	1666.3	1791.3	1909.8	2021.7	2157.3	2295.6	2430.1	2543.3	2592.2
-62.5°	1193.2	1310.4	1417.6	1519.2	1619.6	1720.3	1829.7	1939.5	2048.1	2135.3	2179.5
-65°	1005.5	1098.9	1185.0	1268.5	1349.6	1434.2	1519.8	1603.3	1683.7	1746.0	1784.3
-67.5°	829.4	900.3	968.7	1033.8	1101.6	1170.2	1237.2	1301.1	1361.5	1409.6	1446.3
-70°	673.3	728.2	781.7	835.6	892.2	945.5	995.9	1043.7	1088.7	1123.4	1151.6
-72.5°	542.7	587.3	633.5	682.0	727.7	767.6	803.8	838.8	872.2	891.9	906.5
-75°	437.5	475.0	515.2	554.5	592.7	623.0	649.6	675.4	700.2	701.5	696.5
-77.5°	353.5	387.0	418.1	448.9	479.4	498.1	514.4	531.2	548.2	538.4	522.8
-80°	259.4	287.3	313.8	340.3	366.8	377.9	385.6	392.3	398.0	385.1	369.3
-82.5°	172.1	189.7	206.9	224.4	242.1	249.2	254.5	258.8	262.3	250.7	237.3
-85°	96.0	104.5	112.8	121.2	129.6	134.5	139.1	143.2	147.0	140.1	132.3
-87.5°	39.9	41.8	43.7	45.5	47.3	49.1	50.8	52.5	54.1	54.4	54.6
-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: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-727-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°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	31.6
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°	1.6	0.3	0.0	0.0	0.0	0.3	1.6	2.8	3.6	4.0	4.0
62.5°	10.1	10.5	10.9	11.0	10.9	10.5	10.1	9.6	9.3	9.8	10.5
60°	19.4	17.0	16.4	16.5	16.4	17.0	19.4	21.1	21.9	31.9	37.5
57.5°	152.3	130.3	133.6	148.3	133.6	130.3	152.3	164.9	165.8	192.5	193.5
55°	711.6	794.4	823.6	807.5	823.6	794.4	711.6	624.0	540.5	514.6	514.9
52.5°	964.2	998.1	1011.2	1010.7	1011.2	998.1	964.2	918.7	861.1	804.3	748.6
50°	1255.2	1243.7	1226.0	1208.5	1226.0	1243.7	1255.2	1242.1	1198.9	1114.8	980.1
47.5°	2094.8	2058.5	2043.2	2070.9	2043.2	2058.5	2094.8	2071.2	1910.0	1700.7	1546.4
45°	2783.7	2826.3	2858.0	2856.4	2858.0	2826.3	2783.7	2748.0	2573.1	2333.5	2087.5
42.5°	3176.0	3198.7	3205.3	3197.0	3205.3	3198.7	3176.0	3136.4	2934.1	2678.3	2396.4
40°	3525.6	3552.6	3567.8	3581.5	3567.8	3552.6	3525.6	3473.5	3307.8	3069.4	2804.4
37.5°	4041.0	4050.9	4029.3	4015.5	4029.3	4050.9	4041.0	4008.1	3908.6	3604.3	3388.9
35°	5304.6	5330.4	5270.5	5333.8	5270.5	5330.4	5304.6	5174.9	5021.2	4840.8	4350.4
32.5°	6516.4	6637.7	6735.8	6816.9	6735.8	6637.7	6516.4	6392.5	6288.5	5940.5	5299.3
30°	7202.8	7281.1	7323.1	7333.3	7323.1	7281.1	7202.8	7106.4	6968.2	6523.2	5930.4
27.5°	7706.9	7788.9	7839.9	7877.1	7839.9	7788.9	7706.9	7617.7	7456.4	7002.5	6420.5
25°	8192.6	8267.6	8318.6	8338.5	8318.6	8267.6	8192.6	8102.0	7904.2	7520.5	6947.3
22.5°	8696.7	8748.8	8797.8	8821.9	8797.8	8748.8	8696.7	8590.5	8376.1	8070.0	7462.6
20°	9419.3	9391.0	9435.7	9420.7	9435.7	9391.0	9419.3	9257.0	9031.1	8712.1	8125.6
17.5°	10891.9	10907.1	10937.0	10986.2	10937.0	10907.1	10891.9	10676.6	10400.6	10112.4	9296.6
15°	12743.8	12781.1	12970.5	13139.5	12970.5	12781.1	12743.8	12535.6	12065.7	11649.9	10719.0
12.5°	13547.2	13676.1	13696.1	13743.7	13696.1	13676.1	13547.2	13253.6	12937.1	12406.9	11562.2
10°	13815.2	14038.5	14033.7	14089.8	14033.7	14038.5	13815.2	13559.8	13301.5	12849.1	11964.8
7.5°	14018.6	14258.4	14359.8	14402.9	14359.8	14258.4	14018.6	13845.6	13590.6	13152.2	12248.0
5°	14267.0	14398.8	14573.8	14523.7	14573.8	14398.8	14267.0	14049.7	13727.3	13261.4	12437.0
2.5°	14371.1	14577.6	14530.0	14578.7	14530.0	14577.6	14371.1	14078.0	13781.5	13406.7	12685.3
0°	14441.3	14589.7	14611.6	14661.1	14611.6	14589.7	14441.3	14150.2	13848.1	13485.5	12755.0
-2.5°	14356.1	14486.7	14715.3	14644.6	14715.3	14486.7	14356.1	14089.0	13801.6	13435.8	12778.6
-5°	14281.5	14602.7	14478.0	14633.6	14478.0	14602.7	14281.5	13997.0	13711.3	13315.8	12628.3
-7.5°	14242.9	14300.3	14383.1	14501.8	14383.1	14300.3	14242.9	13919.2	13606.5	13189.5	12493.0
-10°	13944.8	14003.5	14155.7	14238.1	14155.7	14003.5	13944.8	13796.5	13432.0	12989.2	12322.6
-12.5°	13621.4	13735.2	13895.0	13947.0	13895.0	13735.2	13621.4	13456.9	13196.5	12713.5	12050.9
-15°	13248.9	13417.9	13573.7	13606.4	13573.7	13417.9	13248.9	13054.7	12766.8	12373.8	11723.2
-17.5°	12775.3	12977.9	13141.6	13177.9	13141.6	12977.9	12775.3	12557.7	12274.9	11923.9	11393.4
-20°	12253.4	12447.5	12586.7	12628.6	12586.7	12447.5	12253.4	12025.5	11758.4	11421.1	10921.2



REPORT NUMBER: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	11694.6	11869.4	11987.1	11969.5	11987.1	11869.4	11694.6	11468.4	11221.5	10914.3	10376.8
-25°	11101.4	11263.6	11375.7	11359.7	11375.7	11263.6	11101.4	10903.9	10659.1	10332.8	9851.4
-27.5°	10474.2	10627.8	10735.6	10739.0	10735.6	10627.8	10474.2	10284.2	10038.0	9709.0	9298.1
-30°	9815.2	9954.7	10042.2	10008.4	10042.2	9954.7	9815.2	9630.9	9402.3	9082.7	8649.3
-32.5°	9135.5	9261.7	9341.8	9365.7	9341.8	9261.7	9135.5	8975.2	8782.6	8489.9	8026.8
-35°	8465.0	8576.2	8645.5	8662.6	8645.5	8576.2	8465.0	8318.6	8130.9	7899.3	7442.0
-37.5°	7798.9	7894.6	7943.0	7921.0	7943.0	7894.6	7798.9	7664.2	7495.0	7295.9	6900.8
-40°	7140.6	7231.7	7287.1	7300.3	7287.1	7231.7	7140.6	7018.2	6861.0	6667.0	6350.0
-42.5°	6493.4	6569.2	6617.8	6641.2	6617.8	6569.2	6493.4	6388.2	6222.6	6007.2	5752.4
-45°	5865.2	5933.0	5978.7	6004.0	5978.7	5933.0	5865.2	5771.1	5609.8	5401.7	5163.0
-47.5°	5254.1	5313.5	5352.9	5372.2	5352.9	5313.5	5254.1	5171.5	5027.6	4821.9	4586.2
-50°	4669.7	4721.2	4757.8	4779.0	4757.8	4721.2	4669.7	4598.1	4475.6	4275.7	4052.1
-52.5°	4115.5	4160.4	4191.7	4207.7	4191.7	4160.4	4115.5	4053.2	3955.4	3766.3	3560.4
-55°	3586.2	3622.7	3651.6	3669.4	3651.6	3622.7	3586.2	3535.0	3464.8	3289.7	3100.1
-57.5°	3092.7	3122.5	3149.9	3169.5	3149.9	3122.5	3092.7	3049.3	2991.8	2841.7	2675.8
-60°	2630.8	2658.9	2682.3	2697.1	2682.3	2658.9	2630.8	2592.2	2543.3	2430.1	2295.6
-62.5°	2214.0	2238.9	2260.2	2274.1	2260.2	2238.9	2214.0	2179.5	2135.3	2048.1	1939.5
-65°	1814.4	1836.7	1852.6	1862.2	1852.6	1836.7	1814.4	1784.3	1746.0	1683.7	1603.3
-67.5°	1477.5	1503.2	1508.3	1505.1	1508.3	1503.2	1477.5	1446.3	1409.6	1361.5	1301.1
-70°	1176.8	1198.6	1203.7	1203.0	1203.7	1198.6	1176.8	1151.6	1123.4	1088.7	1043.7
-72.5°	920.1	932.0	921.9	906.4	921.9	932.0	920.1	906.5	891.9	872.2	838.8
-75°	690.4	682.9	672.2	659.2	672.2	682.9	690.4	696.5	701.5	700.2	675.4
-77.5°	505.7	487.0	474.7	461.4	474.7	487.0	505.7	522.8	538.4	548.2	531.2
-80°	352.1	333.8	321.1	307.6	321.1	333.8	352.1	369.3	385.1	398.0	392.3
-82.5°	223.0	207.9	200.3	192.3	200.3	207.9	223.0	237.3	250.7	262.3	258.8
-85°	123.9	115.0	109.8	104.4	109.8	115.0	123.9	132.3	140.1	147.0	143.2
-87.5°	54.7	54.8	52.1	49.4	52.1	54.8	54.7	54.6	54.4	54.1	52.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	30.3	28.9	27.5	26.1	24.8	23.4	22.0	20.6	19.3	17.9	16.5
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	0.1	0.0	0.0	0.5	0.7	0.3	0.0	0.6
67.5°	0.0	0.0	1.0	2.3	2.9	2.8	2.5	2.8	3.3	3.0	2.8
65°	3.3	2.1	1.3	2.7	4.1	5.5	5.8	5.1	5.0	5.7	6.8
62.5°	11.1	11.6	10.0	8.4	7.2	8.0	8.7	9.3	8.1	6.5	8.6
60°	33.1	20.1	29.4	31.4	25.0	21.7	32.5	30.9	16.1	13.9	12.5
57.5°	159.3	133.3	146.4	133.0	91.0	79.5	82.4	78.6	71.1	43.6	18.6
55°	549.3	470.7	369.8	319.4	307.7	235.4	175.4	146.4	132.8	95.9	63.5
52.5°	697.8	648.7	572.3	467.1	410.9	389.8	333.2	266.6	211.8	169.4	121.6
50°	874.8	887.9	809.5	663.8	606.3	543.9	489.0	412.0	342.5	274.7	202.8
47.5°	1427.2	1329.5	1250.8	1142.0	935.6	803.8	717.3	591.0	495.8	413.8	325.0
45°	1902.9	1791.1	1714.2	1545.4	1326.0	1122.1	986.0	827.8	659.4	549.6	469.1
42.5°	2240.8	2096.0	1969.7	1832.1	1622.5	1392.4	1205.7	1049.2	872.1	694.2	587.0
40°	2571.4	2341.9	2216.7	2093.5	1895.9	1637.9	1492.4	1262.5	1077.6	880.3	734.0
37.5°	3064.5	2674.2	2630.0	2511.3	2287.9	2019.5	1855.8	1629.0	1286.1	1100.0	931.8
35°	3897.9	3495.8	3263.6	3147.3	2857.6	2515.6	2246.1	2034.3	1694.1	1327.8	1133.9
32.5°	4816.2	4307.3	3955.0	3789.1	3478.2	3014.1	2681.6	2412.1	2070.7	1656.3	1345.3
30°	5334.7	4870.7	4446.4	4162.6	3860.4	3461.5	3080.1	2699.5	2328.8	1985.9	1574.3
27.5°	5817.3	5238.6	4781.2	4461.0	4178.0	3794.5	3372.4	2964.6	2557.2	2218.4	1851.3
25°	6277.0	5635.8	5137.2	4761.3	4432.2	4128.6	3651.5	3205.9	2781.0	2406.5	2119.4
22.5°	6705.3	6110.1	5535.6	5044.0	4765.3	4439.4	3968.9	3429.2	3014.1	2699.1	2361.2
20°	7410.6	6744.3	6016.9	5591.6	5332.3	4828.8	4296.6	3762.9	3381.6	3020.9	2623.5
17.5°	8573.3	7741.9	6872.2	6416.6	6049.5	5432.0	4753.7	4224.3	3748.2	3346.3	2908.9
15°	9846.2	8775.9	7914.2	7325.8	6744.2	6020.8	5235.8	4663.8	4122.8	3670.6	3171.2
12.5°	10475.3	9456.4	8694.1	7864.9	7114.6	6459.2	5716.3	5085.6	4471.7	3882.4	3333.4
10°	10850.7	9838.2	8975.9	8148.2	7396.1	6765.5	6075.5	5328.3	4646.2	4022.6	3468.7
7.5°	11142.7	10099.4	9181.1	8357.1	7595.0	6929.8	6269.4	5486.1	4785.8	4135.9	3577.3
5°	11344.8	10303.0	9371.8	8538.7	7736.4	7047.6	6413.4	5605.5	4889.9	4221.9	3659.8
2.5°	11553.2	10461.1	9491.2	8656.1	7826.5	7122.3	6500.5	5696.7	4974.4	4285.8	3728.6
0°	11634.4	10552.2	9574.5	8717.5	7877.1	7152.0	6525.8	5756.8	5031.7	4323.1	3773.8
-2.5°	11686.7	10582.1	9607.1	8757.3	7944.0	7199.0	6554.2	5824.1	5049.8	4363.2	3786.4
-5°	11607.3	10546.9	9579.7	8724.4	7945.4	7202.6	6534.4	5834.1	5045.2	4373.9	3776.6
-7.5°	11509.9	10454.0	9475.8	8636.8	7888.1	7153.0	6475.3	5790.4	5028.0	4356.4	3758.0
-10°	11345.4	10305.7	9374.5	8545.6	7787.3	7047.2	6389.2	5707.5	4971.8	4306.6	3714.4
-12.5°	11125.7	10118.4	9198.7	8379.0	7651.6	6938.2	6293.9	5593.0	4876.0	4223.6	3645.3
-15°	10835.6	9873.3	8981.1	8182.1	7478.5	6796.5	6152.6	5466.3	4782.6	4121.2	3550.6
-17.5°	10518.1	9550.0	8671.3	7918.5	7251.2	6604.7	5972.9	5333.2	4675.0	4025.2	3465.2
-20°	10157.7	9206.9	8336.5	7606.8	6977.1	6364.6	5780.3	5184.3	4525.5	3914.7	3375.7



REPORT NUMBER: P627440 (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°
-22.5°	9639.0	8799.2	8001.2	7285.7	6683.8	6123.1	5560.4	4984.2	4331.8	3776.4	3253.8
-25°	9126.3	8345.4	7628.1	6970.6	6389.2	5856.7	5309.4	4738.2	4159.3	3613.8	3104.7
-27.5°	8624.5	7901.3	7186.7	6595.6	6073.4	5553.3	5039.1	4498.7	3965.6	3431.0	2964.6
-30°	8082.9	7406.5	6762.1	6207.3	5713.0	5231.8	4769.3	4264.7	3740.3	3232.9	2813.5
-32.5°	7488.0	6894.4	6326.5	5804.1	5342.1	4915.8	4476.9	3998.5	3480.3	3047.8	2638.5
-35°	6910.6	6362.7	5872.6	5411.8	4992.5	4602.3	4177.4	3698.4	3243.4	2837.5	2441.1
-37.5°	6393.9	5860.2	5406.3	5009.4	4659.0	4289.1	3865.4	3440.4	3012.6	2603.4	2257.4
-40°	5859.2	5361.1	4958.1	4635.3	4300.1	3967.2	3594.2	3199.0	2776.9	2377.2	2077.3
-42.5°	5340.8	4938.9	4541.6	4218.6	3918.2	3645.5	3330.9	2931.9	2543.9	2196.7	1908.5
-45°	4833.4	4468.3	4105.5	3811.0	3561.1	3305.4	3024.1	2661.5	2313.0	2014.9	1743.1
-47.5°	4311.9	4004.5	3701.9	3428.2	3204.8	2956.5	2684.9	2377.8	2092.2	1823.5	1582.8
-50°	3811.3	3562.0	3317.2	3080.0	2853.9	2611.4	2368.8	2120.9	1866.1	1631.9	1413.4
-52.5°	3339.9	3133.4	2926.6	2719.1	2521.4	2309.5	2085.6	1865.1	1640.9	1445.3	1250.2
-55°	2896.5	2719.5	2555.5	2389.0	2222.4	2031.2	1829.3	1630.6	1451.8	1272.1	1113.0
-57.5°	2504.0	2348.6	2218.1	2082.2	1941.3	1772.0	1599.3	1431.5	1283.1	1134.4	987.1
-60°	2157.3	2021.7	1909.8	1791.3	1666.3	1524.8	1387.8	1254.8	1126.5	1005.1	878.4
-62.5°	1829.7	1720.3	1619.6	1519.2	1417.6	1310.4	1193.2	1085.9	986.5	884.3	769.6
-65°	1519.8	1434.2	1349.6	1268.5	1185.0	1098.9	1005.5	920.7	839.5	756.5	657.4
-67.5°	1237.2	1170.2	1101.6	1033.8	968.7	900.3	829.4	758.6	692.4	624.8	544.3
-70°	995.9	945.5	892.2	835.6	781.7	728.2	673.3	616.1	555.5	500.3	445.2
-72.5°	803.8	767.6	727.7	682.0	633.5	587.3	542.7	498.1	452.1	404.8	356.7
-75°	649.6	623.0	592.7	554.5	515.2	475.0	437.5	399.1	357.1	311.3	266.6
-77.5°	514.4	498.1	479.4	448.9	418.1	387.0	353.5	311.6	268.8	226.5	189.6
-80°	385.6	377.9	366.8	340.3	313.8	287.3	259.4	222.8	186.4	152.3	124.9
-82.5°	254.5	249.2	242.1	224.4	206.9	189.7	172.1	146.7	122.4	99.4	79.0
-85°	139.1	134.5	129.6	121.2	112.8	104.5	96.0	82.0	68.9	56.6	45.6
-87.5°	50.8	49.1	47.3	45.5	43.7	41.8	39.9	35.8	31.8	28.0	24.3
-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: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-727-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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	15.1	13.8	12.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.9
85°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.9	1.7
82.5°	0.0	0.0	0.0	0.1	0.9	1.4	1.6	1.5	0.8	0.1	0.4
80°	0.0	0.0	0.0	0.2	1.4	2.9	3.6	3.8	2.9	2.0	1.1
77.5°	0.0	0.0	0.0	0.1	0.6	1.6	3.1	5.0	5.0	3.8	2.7
75°	0.0	0.0	0.0	0.2	0.4	0.1	1.2	2.9	4.5	5.4	4.3
72.5°	0.0	0.0	0.0	0.7	1.5	1.6	0.9	1.0	3.2	4.7	5.4
70°	0.8	0.3	0.0	0.9	2.3	3.4	3.1	2.5	2.1	4.0	5.2
67.5°	2.6	2.8	2.1	1.6	2.5	3.8	5.1	4.9	4.3	3.6	5.1
65°	6.4	5.9	5.4	4.8	4.1	4.1	5.4	6.8	6.4	5.5	5.0
62.5°	9.6	9.6	8.8	8.0	7.1	6.2	5.7	7.6	8.3	7.4	6.2
60°	12.4	12.9	12.3	11.2	10.1	9.0	8.2	8.6	9.6	9.3	7.9
57.5°	17.1	16.6	16.4	14.9	13.1	11.8	11.0	10.8	11.0	10.9	9.5
55°	30.2	21.0	21.1	19.5	16.8	14.5	13.9	13.4	12.8	12.5	11.1
52.5°	76.3	42.4	27.2	25.1	21.9	17.9	16.7	16.0	15.1	14.3	12.7
50°	140.9	91.2	51.7	32.4	27.6	23.6	19.6	18.6	17.5	16.3	14.3
47.5°	225.5	156.8	101.9	51.1	35.7	29.4	24.5	21.1	19.8	18.4	15.8
45°	347.4	231.1	160.2	101.2	47.5	40.6	30.2	23.7	22.1	20.3	17.3
42.5°	483.3	339.1	224.8	152.9	90.7	56.2	36.2	28.7	24.4	22.3	19.0
40°	616.6	468.6	301.9	210.8	136.9	75.4	52.1	34.3	26.6	24.5	20.9
37.5°	764.1	605.6	422.9	272.6	184.0	115.0	71.4	39.9	30.3	26.8	22.8
35°	946.6	757.5	544.0	363.2	243.7	151.9	92.8	50.8	37.2	29.2	24.8
32.5°	1128.7	909.3	674.9	468.6	306.0	185.8	120.7	72.5	45.3	31.7	26.9
30°	1312.1	1048.3	798.2	566.0	377.8	240.2	150.8	93.6	54.5	34.3	29.0
27.5°	1477.2	1179.4	913.6	667.9	462.0	297.8	182.2	114.0	64.8	38.9	31.1
25°	1663.7	1321.2	1027.1	765.3	538.9	357.7	214.5	134.0	79.9	46.8	33.2
22.5°	1903.6	1466.8	1132.3	853.6	615.2	415.0	256.0	160.5	96.4	55.2	35.4
20°	2142.2	1609.1	1235.4	964.3	698.1	479.6	303.9	186.7	112.1	63.9	37.5
17.5°	2376.3	1791.5	1385.4	1077.2	786.8	539.9	348.8	212.6	126.9	72.7	39.7
15°	2586.2	2000.4	1532.8	1184.1	873.6	595.7	390.2	237.7	140.7	81.6	42.4
12.5°	2762.5	2180.4	1671.7	1284.1	957.3	646.7	428.1	261.7	153.5	91.5	46.2
10°	2908.2	2332.7	1800.4	1376.5	1036.3	692.6	462.2	285.8	168.5	102.0	50.2
7.5°	3024.5	2458.6	1917.5	1460.4	1108.0	735.5	498.9	311.1	183.0	112.0	54.3
5°	3112.1	2556.7	2008.0	1520.6	1165.1	774.9	532.8	334.4	196.5	121.3	58.4
2.5°	3169.0	2628.9	2075.1	1567.8	1211.5	808.1	562.5	355.3	208.7	129.8	62.3
0°	3202.5	2680.6	2125.8	1604.0	1246.9	835.0	587.8	373.5	219.7	137.3	65.9
-2.5°	3232.5	2714.5	2170.1	1667.2	1271.2	879.1	604.0	389.9	237.0	142.8	72.6
-5°	3242.3	2729.4	2199.1	1715.9	1285.9	914.7	615.3	403.2	252.3	147.2	78.8
-7.5°	3225.6	2720.5	2209.4	1743.5	1292.8	939.9	621.9	413.7	264.7	150.6	84.1
-10°	3188.5	2691.0	2195.9	1735.2	1302.1	947.8	625.7	421.4	273.7	153.1	88.6
-12.5°	3133.4	2646.5	2167.0	1716.7	1300.5	942.8	636.0	427.4	278.4	154.9	91.9
-15°	3061.2	2588.4	2122.9	1689.5	1284.9	931.5	638.6	429.6	277.9	158.1	93.9
-17.5°	2976.2	2517.8	2063.8	1654.9	1254.4	914.4	632.8	427.0	275.1	162.8	95.9
-20°	2891.2	2439.4	1993.6	1613.9	1208.5	892.2	618.1	419.1	270.0	165.9	97.9

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REPORT NUMBER: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLD-SA4D-727-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°	2791.5	2349.4	1933.0	1556.7	1158.8	865.5	594.1	405.8	262.8	167.3	98.7
-25°	2676.9	2244.3	1860.0	1478.1	1119.6	835.2	569.2	386.8	253.5	166.8	98.4
-27.5°	2547.4	2132.1	1774.2	1392.1	1078.8	793.0	545.6	372.9	245.5	164.4	96.9
-30°	2402.9	2026.4	1671.6	1309.3	1029.1	747.4	514.8	357.3	242.0	161.4	94.2
-32.5°	2247.2	1907.3	1561.3	1246.2	972.5	700.0	487.6	339.7	235.9	157.4	94.4
-35°	2101.0	1777.8	1448.7	1173.4	912.5	672.0	469.4	320.1	227.4	151.9	94.9
-37.5°	1944.6	1642.0	1359.5	1097.5	849.3	639.8	454.6	311.4	216.4	144.9	94.5
-40°	1794.0	1513.2	1256.4	1025.1	802.5	603.5	431.4	301.6	205.8	136.4	93.3
-42.5°	1641.7	1392.1	1157.7	946.4	758.4	568.4	401.6	286.6	197.3	131.5	91.2
-45°	1501.5	1267.0	1052.6	877.8	709.4	523.4	378.8	267.8	186.8	127.9	89.2
-47.5°	1354.1	1139.7	956.7	802.7	645.3	474.5	349.7	253.0	174.1	123.4	87.9
-50°	1202.0	1019.1	866.9	720.0	566.8	433.8	318.7	235.4	169.6	119.7	85.8
-52.5°	1068.9	913.2	775.1	635.1	507.5	386.1	295.1	216.4	163.7	116.6	82.7
-55°	954.2	812.4	684.7	565.5	451.1	351.1	268.4	207.4	156.2	112.8	79.0
-57.5°	852.9	719.0	610.4	503.4	404.0	317.3	249.6	196.7	148.4	107.5	75.7
-60°	754.4	644.5	543.0	447.6	360.1	288.2	235.0	184.4	139.2	100.8	71.9
-62.5°	663.3	566.6	478.3	392.1	320.7	264.5	218.2	170.1	128.2	92.4	67.0
-65°	567.8	485.4	410.8	343.0	284.9	236.7	196.5	153.8	113.8	82.3	60.7
-67.5°	468.6	408.1	349.8	293.3	245.9	205.4	171.6	132.1	96.9	70.6	53.3
-70°	390.2	336.9	287.6	243.3	204.6	171.6	140.2	106.8	78.1	60.5	45.4
-72.5°	310.6	267.2	226.8	191.5	163.9	135.8	107.3	81.7	64.8	49.9	37.2
-75°	229.9	200.6	174.2	149.7	124.8	100.3	81.8	65.0	51.0	38.9	31.3
-77.5°	166.8	145.6	126.2	110.7	93.6	77.3	61.7	47.6	38.6	32.2	26.4
-80°	113.3	102.2	91.5	80.6	66.8	53.8	44.5	36.7	31.1	26.0	21.2
-82.5°	71.4	65.4	60.1	54.6	46.6	39.4	33.1	27.7	23.5	19.6	17.2
-85°	42.4	39.2	36.1	33.0	28.6	24.7	22.8	21.1	19.3	17.5	15.6
-87.5°	23.9	23.6	23.2	22.8	21.7	20.6	19.7	18.8	17.2	15.6	14.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	4.1

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REPORT NUMBER: P627440 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: GFLD-SA4D-727-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	11.0	9.6	8.3	6.9	5.5	5.5	5.5
87.5°	4.1	4.6	5.0	5.3	5.5	5.5	5.5
85°	2.7	3.7	4.6	5.1	5.5	5.5	5.5
82.5°	1.3	2.9	4.1	5.0	5.5	5.5	5.5
80°	0.3	2.0	3.7	4.8	5.5	5.5	5.5
77.5°	1.7	1.8	3.2	4.7	5.5	5.5	5.5
75°	3.1	2.7	3.0	4.5	5.5	5.5	5.5
72.5°	4.4	3.6	3.5	4.4	5.5	5.5	5.5
70°	5.5	4.4	4.0	4.4	5.5	5.5	5.5
67.5°	5.7	5.1	4.4	4.6	5.5	5.5	5.5
65°	5.9	5.7	4.8	4.8	5.5	5.5	5.5
62.5°	6.2	6.1	5.2	4.9	5.5	5.5	5.5
60°	6.5	6.6	5.5	5.1	5.5	5.5	5.5
57.5°	7.8	7.1	6.0	5.2	5.6	5.5	5.5
55°	9.2	7.7	6.6	5.3	5.6	5.5	5.5
52.5°	10.6	8.4	7.2	5.4	5.7	5.5	5.5
50°	11.9	9.5	7.8	5.5	5.9	5.5	5.5
47.5°	13.3	10.6	8.4	5.6	6.0	5.5	5.5
45°	14.5	11.7	9.1	6.1	6.2	5.5	5.5
42.5°	15.8	12.8	9.8	6.6	6.3	5.5	5.5
40°	17.0	13.8	10.5	7.3	6.5	5.5	5.5
37.5°	18.2	14.8	11.3	8.0	6.8	5.5	5.5
35°	19.4	15.7	12.1	8.8	7.0	5.5	5.5
32.5°	20.6	16.7	12.8	9.5	7.2	5.5	5.5
30°	22.3	17.5	13.5	10.1	7.5	5.5	5.5
27.5°	23.9	18.4	14.4	10.8	7.8	5.5	5.5
25°	25.5	19.2	15.2	11.4	8.1	5.5	5.5
22.5°	27.2	20.0	16.1	12.1	8.4	5.5	5.5
20°	28.7	21.0	16.9	12.7	8.7	5.5	5.5
17.5°	30.3	22.0	17.6	13.2	9.0	5.5	5.5
15°	31.8	22.9	18.4	13.8	9.3	5.5	5.5
12.5°	33.2	23.8	19.1	14.3	9.6	5.5	5.5
10°	34.5	24.7	19.7	14.8	9.9	5.5	5.5
7.5°	35.7	25.4	20.4	15.3	10.2	5.5	5.5
5°	36.8	26.2	20.9	15.7	10.5	5.5	5.5
2.5°	37.7	26.9	21.5	16.1	10.7	5.5	5.5
0°	38.5	27.5	22.0	16.5	11.0	5.5	5.5
-2.5°	40.6	28.1	22.5	16.5	11.0	5.5	5.5
-5°	42.6	28.6	22.9	16.4	11.0	5.5	5.5
-7.5°	44.3	29.1	23.2	16.4	10.9	5.5	5.5
-10°	45.7	29.5	23.5	16.2	10.8	5.5	5.5
-12.5°	46.7	29.9	23.6	16.1	10.7	5.5	5.5
-15°	47.4	30.2	23.7	15.9	10.6	5.5	5.5
-17.5°	47.6	30.4	23.7	15.7	10.5	5.5	5.5
-20°	48.9	30.6	23.5	15.5	10.3	5.5	5.5

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	52.0	30.7	23.3	15.2	10.2	5.5	5.5
-25°	54.6	32.7	22.8	14.9	10.0	5.5	5.5
-27.5°	56.6	35.3	22.3	14.6	9.8	5.5	5.5
-30°	58.0	37.5	21.7	14.3	9.5	5.5	5.5
-32.5°	58.7	39.3	22.5	13.9	9.3	5.5	5.5
-35°	60.3	40.7	23.1	13.5	9.0	5.5	5.5
-37.5°	61.9	41.6	23.5	13.1	8.7	5.5	5.5
-40°	62.9	41.9	23.7	12.6	8.4	5.5	5.5
-42.5°	63.2	42.0	23.8	12.4	8.1	5.5	5.5
-45°	62.9	41.6	23.9	12.4	7.8	5.5	5.5
-47.5°	61.9	41.0	23.8	12.4	7.4	5.5	5.5
-50°	60.6	40.1	23.3	12.2	7.1	5.5	5.5
-52.5°	58.9	38.8	22.6	12.0	6.7	5.5	5.5
-55°	56.8	37.2	21.7	11.6	6.3	5.5	5.5
-57.5°	54.3	35.2	20.5	11.2	5.9	5.5	5.5
-60°	51.3	32.8	19.0	10.7	5.5	5.5	5.5
-62.5°	47.2	30.0	18.0	10.1	5.5	5.5	5.5
-65°	42.5	26.9	16.8	9.5	5.5	5.5	5.5
-67.5°	37.4	24.2	15.5	8.7	5.5	5.5	5.5
-70°	31.9	22.0	14.1	7.9	5.5	5.5	5.5
-72.5°	28.2	19.6	12.6	7.8	5.5	5.5	5.5
-75°	24.5	17.1	11.0	7.7	5.5	5.5	5.5
-77.5°	20.7	14.4	10.4	7.6	5.5	5.5	5.5
-80°	16.8	13.0	10.0	7.5	5.5	5.5	5.5
-82.5°	15.1	12.2	9.6	7.4	5.5	5.5	5.5
-85°	13.8	11.4	9.2	7.2	5.5	5.5	5.5
-87.5°	12.4	10.5	8.7	7.1	5.5	5.5	5.5
-90°	5.5	5.5	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)