

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: P627740 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA5E-727-U-VWR-VSR-XX

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-2019
Report Number: P627740 (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-SA5E-727-U-VWR-VSR-XX
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N7 WITH VISOR
Light Source: (80) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

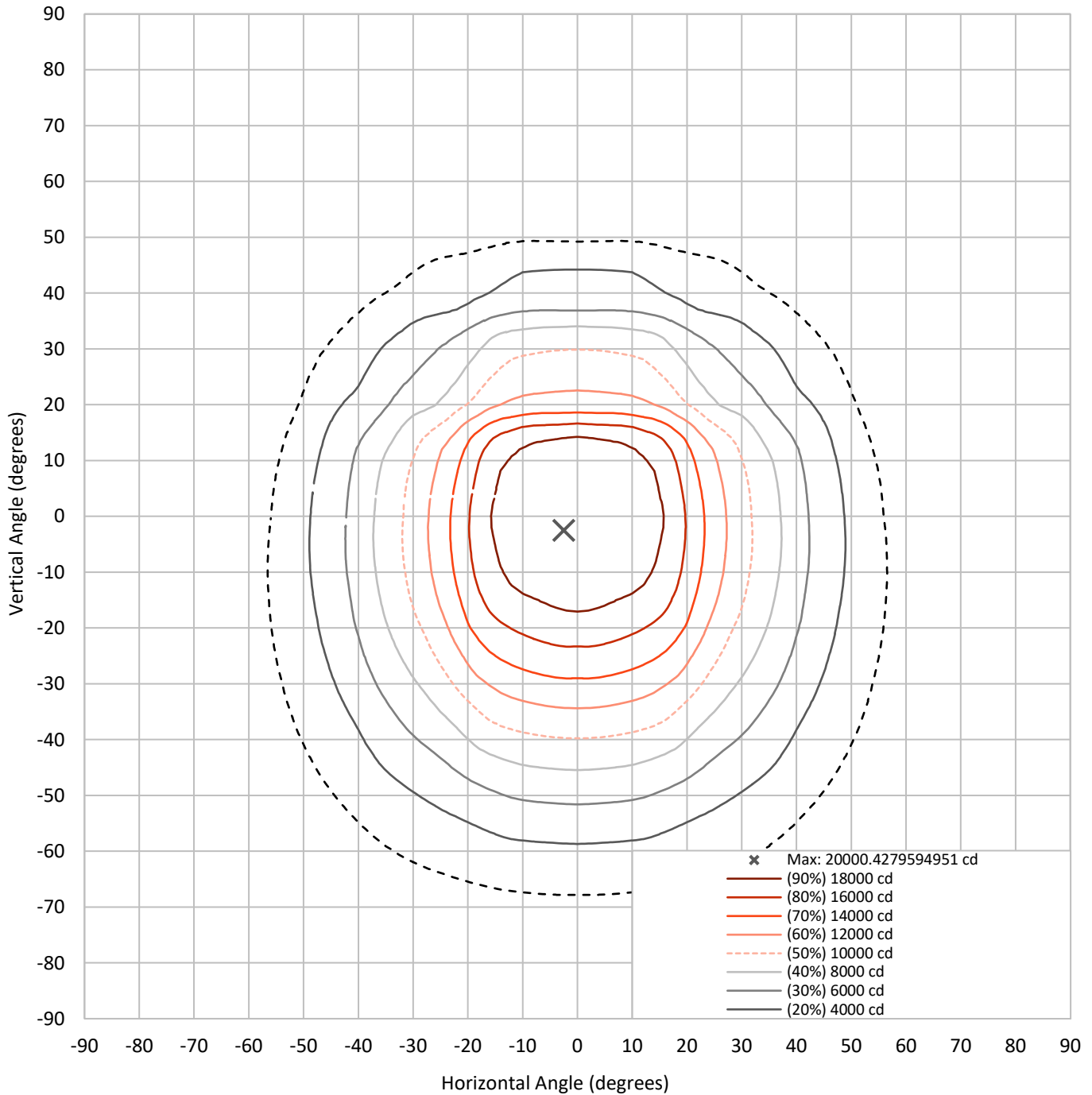
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	26691.2 lumens	Max Intensity:	20000.4 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	85.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' 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:	15442.6 lumens	Field Lumens:	25328.2 lumens
Beam Efficiency:	57.9%	Field Efficiency:	94.9%
Input Watts (W):	313.7		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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Iso-Candela Plot





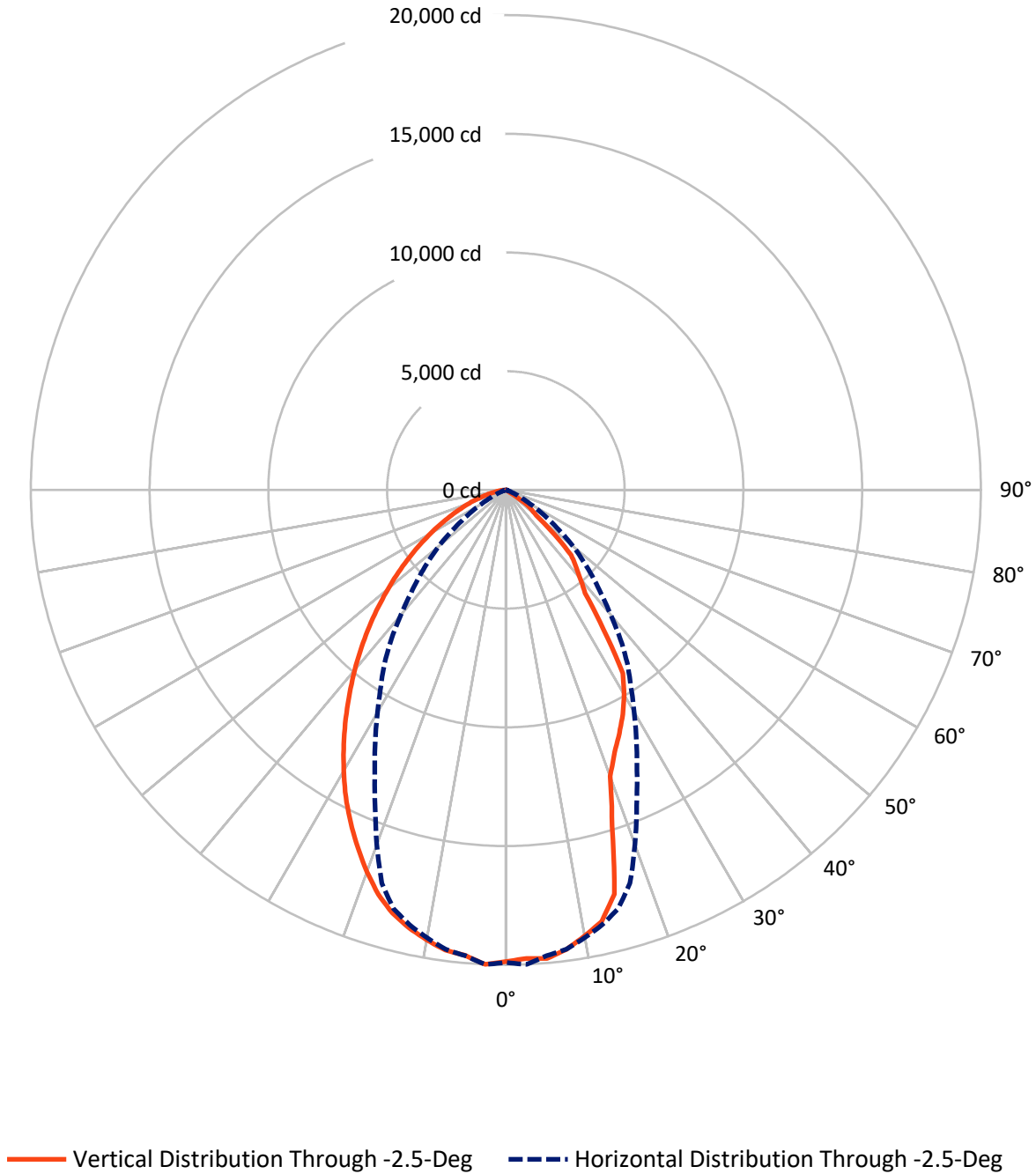
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Lumen Table

90																			
80	0.1	0.2		0.2		0.3		0.3		0.3		0.2		0.2		0.1			
70	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.2			
60		0.2	0.5	2.5	7.3	14.0	20.8	25.9	25.9	20.8	14.0	7.3	2.5	0.5	0.2				
50	0.4	0.5	3.0	13.7	33.1	59.6	88.0	107.7	107.7	88.0	59.6	33.1	13.7	3.0	0.5	0.4			
40		1.3	9.9	34.7	77.3	125.4	188.0	219.8	219.8	188.0	125.4	77.3	34.7	9.9	1.3				
30	0.8	3.0	19.2	61.4	124.6	197.6	296.4	340.7	340.7	296.4	197.6	124.6	61.4	19.2	3.0	0.8			
20		5.1	29.5	90.9	179.6	295.5	439.9	504.5	504.5	439.9	295.5	179.6	90.9	29.5	5.1				
10	1.4	6.9	38.2	108.0	214.8	353.1	519.5	589.5	589.5	519.5	353.1	214.8	108.0	38.2	6.9	1.4			
0		8.2	42.2	112.1	220.5	361.2	523.4	591.7	591.7	523.4	361.2	220.5	112.1	42.2	8.2				
-10	1.7	8.6	41.2	106.1	207.9	338.2	485.7	548.8	548.8	485.7	338.2	207.9	106.1	41.2	8.6	1.7			
-20		7.8	36.1	92.6	179.6	287.5	407.2	461.2	461.2	407.2	287.5	179.6	92.6	36.1	7.8				
-30	1.7	6.5	28.8	72.8	141.3	221.8	311.0	352.1	352.1	311.0	221.8	141.3	72.8	28.8	6.5	1.7			
-40		5.2	21.2	51.9	101.2	156.0	215.2	244.3	244.3	215.2	156.0	101.2	51.9	21.2	5.2				
-50	1.3	3.9	13.9	33.3	62.9	96.8	131.6	150.0	150.0	131.6	96.8	62.9	33.3	13.9	3.9	1.3			
-60		2.8	8.4	19.5	34.6	51.4	68.0	77.0	77.0	68.0	51.4	34.6	19.5	8.4	2.8				
-70																			
-80	0.5	6.2		28.8		62.8		70.1		62.8		28.8		6.2		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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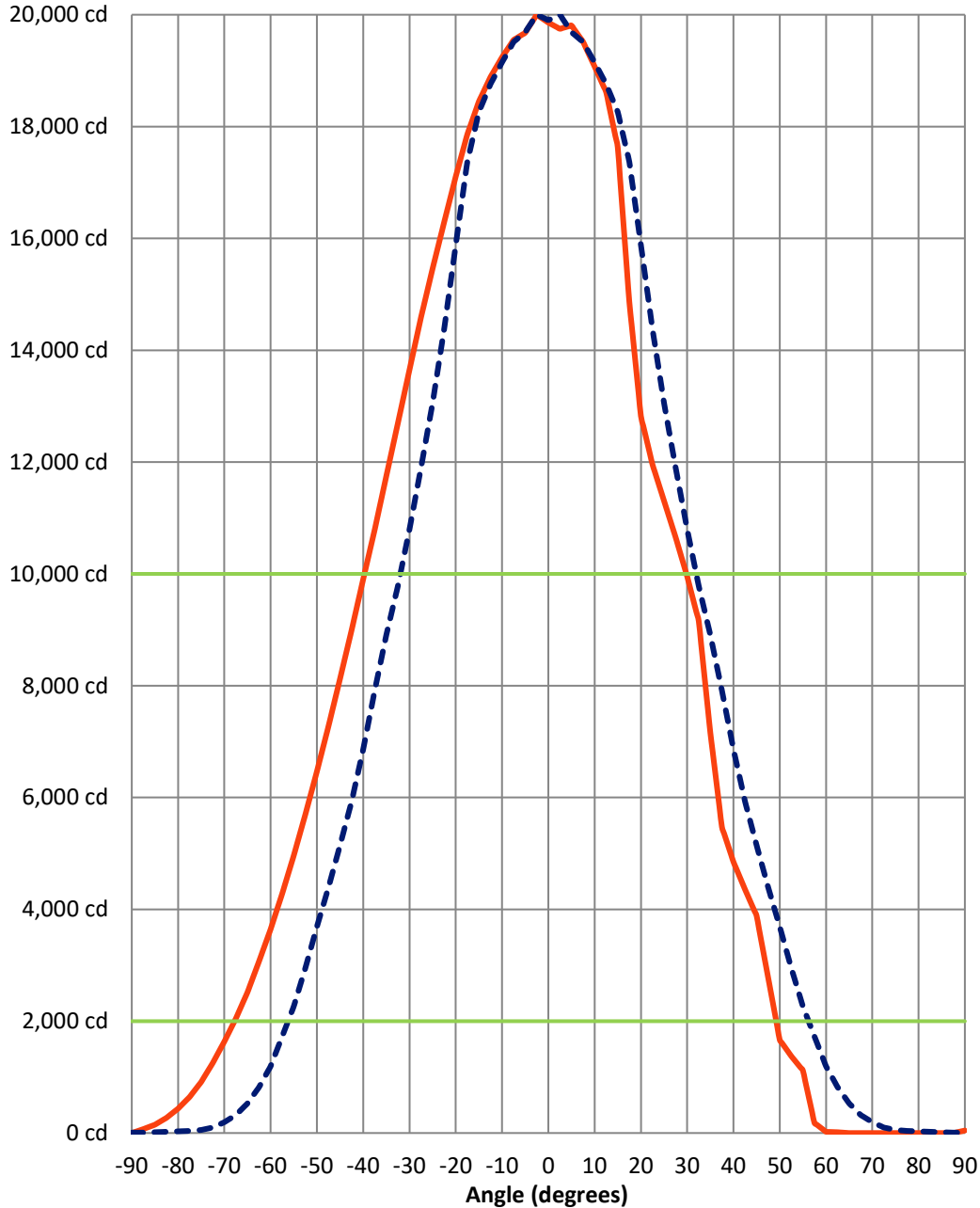
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
 H Angle: 63.9°
 V Angle: 69.6°
 Lumens: 15442.6
 Efficiency: 57.9%

Field:
 H Angle: 112.5°
 V Angle: 117.1°
 Lumens: 25328.2
 Efficiency: 94.9%

Spill:
 Lumens: 1363
 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°	7.5	7.5	7.5	9.3	11.2	13.1	14.9	16.8	18.7	20.5	22.4
87.5°	7.5	7.5	7.5	7.3	6.9	6.3	5.6	3.9	2.5	1.2	0.0
85°	7.5	7.5	7.5	7.0	6.2	5.1	3.6	2.3	1.2	0.5	0.0
82.5°	7.5	7.5	7.5	6.8	5.6	3.9	1.8	0.6	0.2	1.1	2.0
80°	7.5	7.5	7.5	6.6	5.0	2.8	0.4	1.5	2.7	3.9	5.1
77.5°	7.5	7.5	7.5	6.4	4.4	2.5	2.3	3.7	5.2	6.8	6.8
75°	7.5	7.5	7.5	6.2	4.1	3.7	4.2	5.9	7.4	6.1	3.9
72.5°	7.5	7.5	7.5	6.0	4.8	4.9	6.0	7.4	6.4	4.3	1.3
70°	7.5	7.5	7.5	6.0	5.4	6.0	7.5	7.1	5.5	2.9	3.4
67.5°	7.5	7.5	7.5	6.3	6.0	7.0	7.7	6.9	4.9	5.8	6.7
65°	7.5	7.5	7.5	6.5	6.5	7.8	8.0	6.8	7.5	8.7	9.2
62.5°	7.5	7.5	7.5	6.7	7.0	8.3	8.4	8.5	10.0	11.3	10.3
60°	7.5	7.5	7.5	6.9	7.5	9.0	8.9	10.7	12.6	13.0	11.7
57.5°	7.5	7.5	7.6	7.1	8.2	9.7	10.6	12.9	14.8	15.0	14.6
55°	7.5	7.5	7.7	7.3	8.9	10.5	12.5	15.1	17.0	17.4	18.1
52.5°	7.5	7.5	7.8	7.4	9.7	11.4	14.4	17.3	19.5	20.5	21.7
50°	7.5	7.5	8.0	7.5	10.5	12.9	16.2	19.4	22.1	23.7	25.2
47.5°	7.5	7.5	8.2	7.7	11.4	14.4	18.0	21.5	24.9	26.9	28.7
45°	7.5	7.5	8.4	8.3	12.3	15.9	19.7	23.6	27.6	30.0	32.1
42.5°	7.5	7.5	8.6	9.0	13.2	17.3	21.5	25.8	30.3	33.1	39.0
40°	7.5	7.5	8.9	9.9	14.2	18.7	23.1	28.4	33.3	36.1	46.5
37.5°	7.5	7.5	9.2	10.9	15.3	20.0	24.7	31.0	36.4	41.1	54.2
35°	7.5	7.5	9.5	11.9	16.4	21.4	26.3	33.7	39.7	50.5	69.0
32.5°	7.5	7.5	9.8	12.8	17.4	22.6	28.0	36.5	43.1	61.5	98.5
30°	7.5	7.5	10.2	13.8	18.3	23.8	30.3	39.4	46.6	74.1	127.2
27.5°	7.5	7.5	10.6	14.7	19.5	25.0	32.5	42.2	52.8	88.1	154.9
25°	7.5	7.5	11.0	15.5	20.7	26.1	34.7	45.2	63.6	108.5	182.1
22.5°	7.5	7.5	11.4	16.4	21.8	27.2	36.9	48.1	75.0	131.0	218.1
20°	7.5	7.5	11.8	17.2	22.9	28.6	39.0	51.0	86.8	152.3	253.8
17.5°	7.5	7.5	12.2	18.0	23.9	29.9	41.2	53.9	98.8	172.4	288.9
15°	7.5	7.5	12.6	18.7	24.9	31.1	43.2	57.7	110.9	191.2	323.0
12.5°	7.5	7.5	13.0	19.4	25.9	32.3	45.1	62.9	124.4	208.6	355.6
10°	7.5	7.5	13.4	20.1	26.8	33.5	46.9	68.3	138.6	229.0	388.4
7.5°	7.5	7.5	13.8	20.7	27.7	34.5	48.5	73.9	152.2	248.7	422.9
5°	7.5	7.5	14.2	21.3	28.5	35.5	49.9	79.4	164.9	267.0	454.6
2.5°	7.5	7.5	14.6	21.9	29.2	36.4	51.2	84.7	176.4	283.7	483.0
0°	7.5	7.5	14.9	22.4	29.9	37.3	52.3	89.6	186.7	298.6	507.7
-2.5°	7.5	7.5	14.9	22.4	30.5	38.1	55.2	98.7	194.1	322.2	530.0
-5°	7.5	7.5	14.8	22.3	31.1	38.8	57.8	107.0	200.0	342.9	548.1
-7.5°	7.5	7.5	14.8	22.2	31.5	39.5	60.2	114.3	204.7	359.7	562.3
-10°	7.5	7.5	14.7	22.1	31.9	40.0	62.1	120.4	208.1	371.9	572.8
-12.5°	7.5	7.5	14.5	21.9	32.1	40.5	63.5	124.8	210.5	378.3	580.9
-15°	7.5	7.5	14.4	21.6	32.2	40.9	64.5	127.6	214.8	377.6	583.9
-17.5°	7.5	7.5	14.2	21.4	32.2	41.3	64.8	130.3	221.3	373.8	580.3
-20°	7.5	7.5	14.0	21.0	31.9	41.5	66.5	133.0	225.5	367.0	569.6

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CATALOG NUMBER: GFLD-SA5E-727-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°	7.5	7.5	13.8	20.7	31.6	41.7	70.7	134.2	227.3	357.2	551.5
-25°	7.5	7.5	13.5	20.3	31.0	44.4	74.2	133.8	226.7	344.5	525.7
-27.5°	7.5	7.5	13.2	19.8	30.2	47.9	76.9	131.8	223.4	333.7	506.8
-30°	7.5	7.5	12.9	19.4	29.5	50.9	78.8	128.1	219.3	328.8	485.6
-32.5°	7.5	7.5	12.6	18.9	30.6	53.4	79.8	128.3	213.9	320.6	461.7
-35°	7.5	7.5	12.2	18.3	31.4	55.3	81.9	129.0	206.5	309.1	435.1
-37.5°	7.5	7.5	11.8	17.7	31.9	56.5	84.1	128.5	197.0	294.1	423.2
-40°	7.5	7.5	11.4	17.1	32.1	57.0	85.4	126.8	185.4	279.7	409.9
-42.5°	7.5	7.5	11.0	16.8	32.4	57.0	85.9	123.9	178.7	268.1	389.6
-45°	7.5	7.5	10.6	16.9	32.5	56.6	85.5	121.2	173.9	253.9	364.1
-47.5°	7.5	7.5	10.1	16.7	32.3	55.7	84.2	119.5	167.6	236.7	343.9
-50°	7.5	7.5	9.6	16.5	31.7	54.4	82.4	116.5	162.7	230.6	320.0
-52.5°	7.5	7.5	9.1	16.2	30.7	52.7	80.1	112.4	158.5	222.4	294.3
-55°	7.5	7.5	8.6	15.8	29.4	50.6	77.2	107.3	153.3	212.3	282.0
-57.5°	7.5	7.5	8.0	15.2	27.8	47.8	73.8	102.8	146.1	201.7	267.4
-60°	7.5	7.5	7.5	14.5	25.8	44.6	69.7	97.8	137.0	189.2	250.7
-62.5°	7.5	7.5	7.5	13.8	24.4	40.8	64.1	91.1	125.6	174.2	231.1
-65°	7.5	7.5	7.5	12.9	22.8	36.5	57.8	82.5	111.9	154.6	209.0
-67.5°	7.5	7.5	7.5	11.9	21.1	32.8	50.8	72.4	96.0	131.7	179.6
-70°	7.5	7.5	7.5	10.8	19.1	29.8	43.3	61.7	82.2	106.2	145.2
-72.5°	7.5	7.5	7.5	10.6	17.1	26.6	38.2	50.5	67.8	88.0	111.1
-75°	7.5	7.5	7.5	10.5	14.9	23.2	33.3	42.6	52.8	69.3	88.3
-77.5°	7.5	7.5	7.5	10.3	14.1	19.6	28.1	35.8	43.8	52.5	64.7
-80°	7.5	7.5	7.5	10.2	13.6	17.6	22.7	28.8	35.3	42.3	49.8
-82.5°	7.5	7.5	7.5	10.0	13.1	16.6	20.5	23.4	26.6	31.9	37.6
-85°	7.5	7.5	7.5	9.8	12.5	15.4	18.7	21.2	23.7	26.2	28.7
-87.5°	7.5	7.5	7.5	9.6	11.8	14.3	16.8	19.0	21.2	23.4	25.6
-90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	5.6	3.7	1.9	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°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	24.3	26.2	28.0
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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	1.9	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.9	4.0	1.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.3	2.2	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1.6	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°	4.3	4.6	3.1	1.2	0.0	0.4	1.1	0.8	0.0	0.4	0.9
67.5°	7.0	5.2	3.4	2.1	2.8	3.8	3.5	3.8	4.1	4.4	3.8
65°	7.3	5.5	5.6	6.5	7.4	8.1	8.7	9.2	7.8	6.8	6.9
62.5°	7.8	8.4	9.7	10.9	12.0	13.0	13.1	11.6	8.9	11.1	12.7
60°	11.1	12.2	13.8	15.2	16.7	17.5	16.8	17.0	18.9	21.9	41.9
57.5°	15.0	15.9	17.8	20.2	22.2	22.6	23.3	25.3	59.2	96.6	106.7
55°	18.8	19.7	22.8	26.5	28.7	28.5	41.0	86.3	130.3	180.5	199.0
52.5°	22.7	24.3	29.7	34.1	37.0	57.6	103.7	165.3	230.2	287.9	362.4
50°	26.6	32.0	37.5	44.0	70.2	124.0	191.5	275.6	373.4	465.5	559.9
47.5°	33.2	40.0	48.4	69.5	138.5	213.2	306.5	441.8	562.5	673.9	803.2
45°	41.1	55.2	64.5	137.5	217.7	314.1	472.2	637.6	747.0	896.2	1125.1
42.5°	49.2	76.4	123.3	207.8	305.5	460.8	656.9	797.8	943.5	1185.3	1426.0
40°	70.8	102.4	186.1	286.5	410.3	636.8	838.1	997.6	1196.5	1464.6	1715.9
37.5°	97.0	156.3	250.1	370.5	574.8	823.1	1038.6	1266.5	1495.1	1747.9	2214.0
35°	126.1	206.4	331.2	493.7	739.4	1029.6	1286.6	1541.2	1804.7	2302.4	2764.9
32.5°	164.0	252.5	415.9	636.8	917.3	1235.9	1534.1	1828.5	2251.1	2814.4	3278.5
30°	204.9	326.5	513.5	769.4	1084.9	1424.8	1783.4	2139.8	2699.1	3165.2	3669.1
27.5°	247.7	404.7	627.9	907.8	1241.7	1603.0	2007.8	2516.2	3015.1	3475.6	4029.4
25°	291.5	486.1	732.5	1040.2	1396.0	1795.7	2261.2	2880.5	3270.7	3779.7	4357.3
22.5°	347.9	564.1	836.1	1160.2	1539.0	1993.7	2587.3	3209.2	3668.5	4096.6	4660.9
20°	413.1	651.8	948.8	1310.6	1679.1	2187.1	2911.6	3565.7	4105.9	4596.1	5114.4
17.5°	474.0	733.8	1069.4	1464.1	1883.0	2434.9	3229.8	3953.7	4548.2	5094.4	5741.5
15°	530.3	809.7	1187.4	1609.4	2083.4	2718.8	3515.1	4310.2	4989.0	5603.6	6338.9
12.5°	581.8	879.0	1301.2	1745.3	2272.1	2963.5	3754.7	4530.7	5276.8	6077.7	6912.2
10°	628.2	941.3	1408.6	1870.9	2447.0	3170.5	3952.7	4714.7	5467.4	6315.0	7242.0
7.5°	678.1	999.6	1506.1	1984.9	2606.2	3341.5	4110.8	4862.2	5621.4	6504.7	7456.5
5°	724.1	1053.2	1583.6	2066.7	2729.2	3474.9	4229.8	4974.3	5738.3	6646.1	7618.8
2.5°	764.6	1098.2	1646.7	2130.8	2820.4	3573.1	4307.2	5067.7	5825.0	6761.0	7742.8
0°	798.9	1134.8	1694.8	2180.1	2889.3	3643.4	4352.7	5129.1	5875.7	6838.9	7824.4
-2.5°	820.9	1194.7	1727.8	2265.9	2949.5	3689.4	4393.4	5146.3	5930.3	6863.5	7915.9
-5°	836.3	1243.3	1747.8	2332.1	2989.0	3709.7	4406.8	5133.0	5944.9	6857.3	7929.4
-7.5°	845.2	1277.5	1757.1	2369.7	3002.8	3697.6	4384.1	5107.7	5921.0	6833.8	7870.1
-10°	850.4	1288.3	1769.8	2358.4	2984.6	3657.5	4333.6	5048.4	5853.3	6757.5	7757.5
-12.5°	864.4	1281.4	1767.6	2333.3	2945.3	3597.1	4258.7	4954.5	5740.4	6627.2	7601.8
-15°	868.0	1266.0	1746.4	2296.3	2885.3	3518.0	4160.7	4825.8	5601.3	6500.3	7429.6
-17.5°	860.1	1242.8	1705.0	2249.2	2804.9	3422.1	4045.2	4709.8	5470.8	6354.0	7248.7
-20°	840.2	1212.7	1642.5	2193.5	2709.6	3315.6	3929.6	4588.1	5320.7	6150.9	7046.3



REPORT NUMBER: P627740 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-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°	807.4	1176.3	1574.9	2115.8	2627.2	3193.2	3794.1	4422.4	5132.7	5887.5	6774.3
-25°	773.7	1135.2	1521.7	2009.0	2528.1	3050.4	3638.3	4219.8	4911.8	5653.1	6440.0
-27.5°	741.6	1077.9	1466.3	1892.0	2411.5	2897.8	3462.3	4029.4	4663.3	5389.9	6114.4
-30°	699.7	1015.9	1398.7	1779.6	2272.0	2754.1	3265.9	3824.0	4394.1	5083.7	5796.4
-32.5°	662.6	951.5	1321.8	1693.8	2122.1	2592.3	3054.2	3586.1	4142.5	4730.3	5434.7
-35°	637.9	913.3	1240.2	1594.9	1969.1	2416.3	2855.6	3317.8	3856.6	4408.3	5026.7
-37.5°	617.9	869.5	1154.4	1491.7	1847.9	2231.8	2643.0	3068.2	3538.4	4094.6	4676.1
-40°	586.3	820.2	1090.8	1393.4	1707.6	2056.7	2438.4	2823.3	3230.9	3774.2	4348.0
-42.5°	545.9	772.5	1030.8	1286.4	1573.4	1892.1	2231.4	2593.9	2985.6	3457.6	3984.9
-45°	514.9	711.4	964.2	1193.1	1430.7	1722.1	2040.8	2369.2	2738.6	3143.7	3617.4
-47.5°	475.4	645.0	877.0	1090.9	1300.3	1549.0	1840.4	2151.3	2478.5	2843.6	3231.8
-50°	433.2	589.7	770.4	978.6	1178.3	1385.1	1633.7	1921.1	2218.0	2536.3	2882.6
-52.5°	401.1	524.9	689.9	863.2	1053.5	1241.1	1452.7	1699.2	1964.4	2230.3	2535.0
-55°	364.9	477.2	613.2	768.6	930.6	1104.2	1296.9	1512.8	1729.0	1973.3	2216.4
-57.5°	339.3	431.3	549.2	684.2	829.7	977.3	1159.2	1341.6	1541.8	1743.9	1945.6
-60°	319.4	391.7	489.5	608.4	738.1	876.1	1025.3	1193.8	1366.1	1531.1	1705.5
-62.5°	296.6	359.5	435.9	532.9	650.1	770.1	901.6	1046.0	1201.9	1340.8	1475.9
-65°	267.1	321.7	387.3	466.2	558.3	659.8	771.7	893.5	1028.2	1141.0	1251.4
-67.5°	233.2	279.2	334.2	398.7	475.4	554.6	636.8	739.8	849.2	941.1	1031.1
-70°	190.6	233.2	278.1	330.7	390.8	458.0	530.3	605.0	679.9	755.0	837.3
-72.5°	145.9	184.7	222.8	260.3	308.2	363.2	422.2	484.9	550.2	614.5	677.0
-75°	111.2	136.4	169.7	203.5	236.8	272.6	312.5	362.3	423.1	485.4	542.5
-77.5°	84.0	105.1	127.3	150.5	171.6	198.0	226.8	257.8	307.9	365.4	423.5
-80°	60.6	73.2	90.9	109.6	124.4	139.0	154.1	169.8	207.1	253.4	302.9
-82.5°	45.0	53.6	63.4	74.3	81.7	89.0	97.1	107.5	135.1	166.4	199.4
-85°	31.0	33.5	38.8	44.8	49.0	53.2	57.6	62.0	76.9	93.6	111.5
-87.5°	26.7	28.0	29.4	30.9	31.5	32.0	32.5	32.9	38.0	43.2	48.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627740 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-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°	29.9	31.8	33.6	35.5	37.3	39.2	41.1	42.9	44.8	44.8	44.8
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°	0.6	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3.4	3.8	3.9	3.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	7.9	7.6	5.6	3.7	1.8	2.8	4.5	5.4	5.5	4.9	3.8
62.5°	11.9	10.9	9.8	11.3	13.6	15.7	15.0	14.2	13.3	12.6	13.1
60°	44.2	29.4	34.0	42.7	39.9	27.4	45.0	50.9	43.4	29.6	28.6
57.5°	111.9	108.0	123.8	180.8	199.0	181.3	216.6	263.0	261.6	225.3	224.1
55°	238.5	319.9	418.3	434.2	502.6	639.8	746.5	699.7	699.4	734.6	848.1
52.5°	452.9	529.8	558.4	634.8	777.8	881.6	948.3	1017.4	1093.1	1170.3	1248.6
50°	664.6	739.3	824.1	902.3	1100.3	1206.8	1189.0	1332.1	1515.1	1629.5	1688.2
47.5°	974.9	1092.6	1271.7	1552.3	1700.1	1806.9	1939.8	2101.8	2311.5	2596.0	2815.1
45°	1340.2	1525.2	1802.4	2100.5	2329.8	2434.3	2586.4	2837.3	3171.7	3497.2	3735.0
42.5°	1638.8	1892.6	2205.2	2490.1	2677.2	2848.8	3045.6	3257.2	3640.2	3988.0	4262.8
40°	2028.4	2226.2	2576.9	2845.4	3012.9	3183.0	3495.0	3811.6	4171.8	4495.9	4721.0
37.5°	2522.3	2744.8	3109.6	3413.3	3574.6	3634.7	4165.2	4606.0	4898.8	5312.4	5447.7
35°	3052.8	3419.1	3883.9	4277.7	4435.8	4751.3	5297.8	5913.0	6579.5	6824.6	7033.6
32.5°	3644.7	4096.6	4727.3	5149.9	5375.5	5854.3	6546.0	7202.6	8074.1	8547.1	8688.4
30°	4186.2	4704.7	5246.9	5657.7	6043.3	6620.0	7250.7	8060.3	8866.1	9470.9	9658.7
27.5°	4583.6	5157.3	5678.6	6063.2	6498.4	7120.2	7906.6	8726.5	9517.5	10134.4	10353.7
25°	4962.9	5611.4	6024.1	6471.3	6982.4	7660.0	8531.5	9442.4	10221.5	10743.0	11011.9
22.5°	5394.4	6033.8	6476.8	6855.6	7523.8	8304.6	9113.6	10142.9	10968.4	11384.5	11675.9
20°	5839.8	6563.2	7247.5	7599.9	8178.0	9166.6	10072.2	11044.0	11841.1	12274.7	12581.7
17.5°	6461.1	7383.0	8222.3	8721.3	9340.4	10522.5	11652.5	12635.5	13744.4	14136.0	14511.2
15°	7116.3	8183.3	9166.5	9957.0	10756.7	11927.9	13382.6	14568.9	15834.1	16399.1	17037.9
12.5°	7769.4	8779.1	9669.9	10689.7	11816.7	12852.8	14237.7	15714.9	16863.0	17583.6	18013.7
10°	8257.6	9195.3	10052.5	11074.7	12199.7	13371.7	14747.9	16262.1	17464.0	18078.9	18429.9
7.5°	8521.1	9418.6	10322.8	11358.7	12478.6	13726.8	15144.7	16647.0	17875.9	18471.8	18818.4
5°	8716.8	9578.8	10515.0	11605.5	12737.8	14003.5	15419.4	16903.8	18024.4	18657.6	19095.9
2.5°	8835.2	9680.3	10637.5	11765.0	12900.1	14218.3	15702.7	17241.4	18221.8	18731.2	19134.3
0°	8869.6	9720.7	10706.3	11848.5	13013.2	14342.2	15813.0	17336.1	18329.0	18821.8	19232.4
-2.5°	8908.3	9784.6	10797.2	11902.7	13057.5	14382.7	15884.1	17368.2	18261.4	18758.6	19149.3
-5°	8881.3	9789.5	10799.0	11857.9	13020.3	14335.0	15776.2	17163.8	18098.3	18635.8	19024.3
-7.5°	8801.0	9722.1	10721.1	11738.8	12879.1	14208.6	15643.8	16980.0	17926.7	18493.5	18918.5
-10°	8684.0	9578.3	10584.2	11614.8	12741.5	14007.0	15420.2	16748.4	17654.4	18256.3	18751.7
-12.5°	8554.4	9430.2	10399.7	11388.3	12502.6	13752.5	15121.7	16379.0	17279.6	17936.1	18290.1
-15°	8362.4	9237.6	10164.5	11120.7	12206.8	13419.4	14727.3	15933.6	16818.0	17352.2	17743.4
-17.5°	8118.1	8976.9	9855.6	10762.6	11785.7	12980.0	14295.8	15485.5	16206.4	16683.6	17068.0
-20°	7856.4	8650.5	9483.1	10339.0	11330.7	12513.6	13805.9	14843.7	15523.1	15981.6	16344.6



REPORT NUMBER: P627740 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-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°	7557.5	8322.3	9084.4	9902.6	10875.0	11959.5	13101.0	14103.8	14834.3	15251.9	15587.4
-25°	7216.4	7960.3	8684.0	9474.2	10367.9	11342.8	12404.2	13389.6	14043.9	14487.5	14820.1
-27.5°	6848.9	7547.8	8254.8	8964.4	9767.9	10739.2	11722.2	12637.7	13196.2	13643.2	13977.9
-30°	6482.2	7110.9	7764.9	8436.7	9190.8	10066.6	10986.0	11755.8	12344.8	12779.2	13089.9
-32.5°	6084.8	6681.3	7260.8	7888.7	8598.7	9370.5	10177.4	10909.7	11539.1	11936.9	12198.8
-35°	5677.7	6255.2	6785.6	7355.5	7981.7	8647.8	9392.6	10114.9	10736.4	11051.2	11306.4
-37.5°	5253.7	5829.6	6332.4	6808.5	7348.0	7964.8	8690.3	9379.4	9916.3	10186.9	10416.9
-40°	4885.1	5392.0	5844.6	6300.2	6738.8	7286.6	7963.6	8630.8	9061.6	9325.2	9538.9
-42.5°	4527.2	4954.8	5325.4	5733.8	6172.8	6712.9	7259.1	7818.5	8164.8	8457.4	8682.5
-45°	4110.3	4492.6	4840.1	5179.7	5580.1	6073.1	6569.3	7017.4	7341.7	7624.6	7843.8
-47.5°	3649.3	4018.3	4355.8	4659.5	5031.6	5442.8	5860.6	6233.4	6553.7	6833.2	7028.8
-50°	3219.6	3549.3	3878.8	4186.2	4508.6	4841.3	5180.2	5507.5	5811.4	6083.1	6249.5
-52.5°	2834.7	3138.9	3426.9	3695.6	3977.8	4258.8	4539.5	4839.2	5119.0	5376.0	5508.9
-55°	2486.4	2760.7	3020.6	3247.0	3473.3	3696.3	3936.8	4213.6	4471.2	4709.3	4804.7
-57.5°	2173.8	2408.5	2638.5	2829.9	3014.7	3192.1	3403.3	3636.9	3862.4	4066.5	4144.5
-60°	1886.2	2072.5	2264.8	2434.7	2595.8	2747.9	2932.0	3120.1	3303.0	3456.8	3523.3
-62.5°	1621.7	1781.1	1926.8	2064.8	2201.3	2338.2	2486.8	2636.0	2783.7	2902.2	2962.2
-65°	1366.7	1493.6	1610.7	1724.1	1834.3	1949.3	2065.7	2179.1	2288.4	2373.1	2425.1
-67.5°	1127.3	1223.8	1316.7	1405.1	1497.3	1590.5	1681.5	1768.4	1850.5	1916.0	1965.7
-70°	915.1	989.7	1062.5	1135.7	1212.6	1285.1	1353.7	1418.6	1479.8	1527.0	1565.3
-72.5°	737.6	798.2	861.0	927.0	989.1	1043.3	1092.6	1140.1	1185.5	1212.2	1232.1
-75°	594.7	645.7	700.3	753.7	805.6	846.8	882.9	918.0	951.6	953.4	946.7
-77.5°	480.4	526.0	568.3	610.2	651.7	677.0	699.2	722.0	745.0	731.7	710.6
-80°	352.6	390.6	426.5	462.5	498.6	513.6	524.1	533.2	540.9	523.4	501.8
-82.5°	234.0	257.9	281.3	305.0	329.1	338.7	345.9	351.8	356.5	340.7	322.6
-85°	130.5	142.0	153.3	164.7	176.1	182.9	189.0	194.6	199.8	190.4	179.8
-87.5°	54.3	56.9	59.4	61.9	64.4	66.8	69.1	71.4	73.7	74.0	74.2
-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: P627740 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-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°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	42.9
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	3.8	4.9	5.5	5.4
62.5°	13.6	14.2	14.7	14.9	14.7	14.2	13.6	13.1	12.6	13.3	14.2
60°	26.4	23.1	22.3	22.4	22.3	23.1	26.4	28.6	29.6	43.4	50.9
57.5°	206.9	177.1	181.6	201.6	181.6	177.1	206.9	224.1	225.3	261.6	263.0
55°	967.2	1079.7	1119.4	1097.5	1119.4	1079.7	967.2	848.1	734.6	699.4	699.7
52.5°	1310.4	1356.6	1374.4	1373.7	1374.4	1356.6	1310.4	1248.6	1170.3	1093.1	1017.4
50°	1706.0	1690.4	1666.4	1642.5	1666.4	1690.4	1706.0	1688.2	1629.5	1515.1	1332.1
47.5°	2847.2	2797.8	2777.0	2814.7	2777.0	2797.8	2847.2	2815.1	2596.0	2311.5	2101.8
45°	3783.5	3841.4	3884.5	3882.3	3884.5	3841.4	3783.5	3735.0	3497.2	3171.7	2837.3
42.5°	4316.7	4347.5	4356.4	4345.2	4356.4	4347.5	4316.7	4262.8	3988.0	3640.2	3257.2
40°	4791.9	4828.6	4849.2	4867.8	4849.2	4828.6	4791.9	4721.0	4495.9	4171.8	3811.6
37.5°	5492.3	5505.8	5476.4	5457.6	5476.4	5505.8	5492.3	5447.7	5312.4	4898.8	4606.0
35°	7209.8	7244.9	7163.5	7249.5	7163.5	7244.9	7209.8	7033.6	6824.6	6579.5	5913.0
32.5°	8856.8	9021.7	9155.0	9265.3	9155.0	9021.7	8856.8	8688.4	8547.1	8074.1	7202.6
30°	9789.8	9896.1	9953.2	9967.1	9953.2	9896.1	9789.8	9658.7	9470.9	8866.1	8060.3
27.5°	10474.9	10586.3	10655.8	10706.3	10655.8	10586.3	10474.9	10353.7	10134.4	9517.5	8726.5
25°	11135.1	11237.0	11306.4	11333.4	11306.4	11237.0	11135.1	11011.9	10743.0	10221.5	9442.4
22.5°	11820.2	11891.0	11957.6	11990.4	11957.6	11891.0	11820.2	11675.9	11384.5	10968.4	10142.9
20°	12802.3	12763.8	12824.6	12804.2	12824.6	12763.8	12802.3	12581.7	12274.7	11841.1	11044.0
17.5°	14803.8	14824.5	14865.2	14932.0	14865.2	14824.5	14803.8	14511.2	14136.0	13744.4	12635.5
15°	17320.9	17371.6	17629.0	17858.7	17629.0	17371.6	17320.9	17037.9	16399.1	15834.1	14568.9
12.5°	18412.8	18588.0	18615.2	18679.9	18615.2	18588.0	18412.8	18013.7	17583.6	16863.0	15714.9
10°	18777.2	19080.6	19074.1	19150.3	19074.1	19080.6	18777.2	18429.9	18078.9	17464.0	16262.1
7.5°	19053.5	19379.5	19517.3	19575.9	19517.3	19379.5	19053.5	18818.4	18471.8	17875.9	16647.0
5°	19391.1	19570.3	19808.1	19740.1	19808.1	19570.3	19391.1	19095.9	18657.6	18024.4	16903.8
2.5°	19532.6	19813.4	19748.6	19814.8	19748.6	19813.4	19532.6	19134.3	18731.2	18221.8	17241.4
0°	19628.1	19829.7	19859.6	19926.8	19859.6	19829.7	19628.1	19232.4	18821.8	18329.0	17336.1
-2.5°	19512.4	19689.8	20000.4	19904.4	20000.4	19689.8	19512.4	19149.3	18758.6	18261.4	17368.2
-5°	19410.9	19847.4	19677.9	19889.4	19677.9	19847.4	19410.9	19024.3	18635.8	18098.3	17163.8
-7.5°	19358.4	19436.5	19549.1	19710.3	19549.1	19436.5	19358.4	18918.5	18493.5	17926.7	16980.0
-10°	18953.2	19033.1	19239.8	19351.9	19239.8	19033.1	18953.2	18751.7	18256.3	17654.4	16748.4
-12.5°	18513.7	18668.4	18885.6	18956.2	18885.6	18668.4	18513.7	18290.1	17936.1	17279.6	16379.0
-15°	18007.5	18237.2	18448.9	18493.3	18448.9	18237.2	18007.5	17743.4	17352.2	16818.0	15933.6
-17.5°	17363.7	17639.1	17861.6	17910.9	17861.6	17639.1	17363.7	17068.0	16683.6	16206.4	15485.5
-20°	16654.3	16918.1	17107.3	17164.3	17107.3	16918.1	16654.3	16344.6	15981.6	15523.1	14843.7



REPORT NUMBER: P627740 (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°	15894.9	16132.4	16292.4	16268.4	16292.4	16132.4	15894.9	15587.4	15251.9	14834.3	14103.8
-25°	15088.6	15309.0	15461.4	15439.7	15461.4	15309.0	15088.6	14820.1	14487.5	14043.9	13389.6
-27.5°	14236.1	14445.0	14591.4	14596.0	14591.4	14445.0	14236.1	13977.9	13643.2	13196.2	12637.7
-30°	13340.4	13530.1	13649.0	13603.1	13649.0	13530.1	13340.4	13089.9	12779.2	12344.8	11755.8
-32.5°	12416.6	12588.1	12697.1	12729.5	12697.1	12588.1	12416.6	12198.8	11936.9	11539.1	10909.7
-35°	11505.3	11656.5	11750.7	11773.9	11750.7	11656.5	11505.3	11306.4	11051.2	10736.4	10114.9
-37.5°	10599.9	10730.0	10795.8	10766.0	10795.8	10730.0	10599.9	10416.9	10186.9	9916.3	9379.4
-40°	9705.2	9829.1	9904.4	9922.3	9904.4	9829.1	9705.2	9538.9	9325.2	9061.6	8630.8
-42.5°	8825.5	8928.5	8994.6	9026.4	8994.6	8928.5	8825.5	8682.5	8457.4	8164.8	7818.5
-45°	7971.7	8063.8	8125.9	8160.3	8125.9	8063.8	7971.7	7843.8	7624.6	7341.7	7017.4
-47.5°	7141.1	7221.9	7275.4	7301.8	7275.4	7221.9	7141.1	7028.8	6833.2	6553.7	6233.4
-50°	6346.9	6416.8	6466.7	6495.4	6466.7	6416.8	6346.9	6249.5	6083.1	5811.4	5507.5
-52.5°	5593.6	5654.7	5697.2	5719.0	5697.2	5654.7	5593.6	5508.9	5376.0	5119.0	4839.2
-55°	4874.3	4923.9	4963.2	4987.3	4963.2	4923.9	4874.3	4804.7	4709.3	4471.2	4213.6
-57.5°	4203.6	4244.0	4281.3	4307.9	4281.3	4244.0	4203.6	4144.5	4066.5	3862.4	3636.9
-60°	3575.7	3613.9	3645.6	3665.8	3645.6	3613.9	3575.7	3523.3	3456.8	3303.0	3120.1
-62.5°	3009.1	3042.9	3072.0	3090.9	3072.0	3042.9	3009.1	2962.2	2902.2	2783.7	2636.0
-65°	2466.0	2496.3	2518.0	2531.0	2518.0	2496.3	2466.0	2425.1	2373.1	2288.4	2179.1
-67.5°	2008.1	2043.1	2050.0	2045.7	2050.0	2043.1	2008.1	1965.7	1916.0	1850.5	1768.4
-70°	1599.4	1629.0	1636.0	1635.1	1636.0	1629.0	1599.4	1565.3	1527.0	1479.8	1418.6
-72.5°	1250.7	1266.8	1253.0	1231.9	1253.0	1266.8	1250.7	1232.1	1212.2	1185.5	1140.1
-75°	938.5	928.2	913.7	895.9	913.7	928.2	938.5	946.7	953.4	951.6	918.0
-77.5°	687.3	661.9	645.2	627.1	645.2	661.9	687.3	710.6	731.7	745.0	722.0
-80°	478.5	453.6	436.4	418.1	436.4	453.6	478.5	501.8	523.4	540.9	533.2
-82.5°	303.2	282.6	272.2	261.3	272.2	282.6	303.2	322.6	340.7	356.5	351.8
-85°	168.4	156.3	149.2	141.9	149.2	156.3	168.4	179.8	190.4	199.8	194.6
-87.5°	74.4	74.6	70.9	67.2	70.9	74.6	74.4	74.2	74.0	73.7	71.4
-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°	41.1	39.2	37.3	35.5	33.6	31.8	29.9	28.0	26.2	24.3	22.4
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	3.1	3.9	3.8	3.4	3.8	4.4	4.1	3.8
65°	4.5	2.8	1.8	3.7	5.6	7.6	7.9	6.9	6.8	7.8	9.2
62.5°	15.0	15.7	13.6	11.3	9.8	10.9	11.9	12.7	11.1	8.9	11.6
60°	45.0	27.4	39.9	42.7	34.0	29.4	44.2	41.9	21.9	18.9	17.0
57.5°	216.6	181.3	199.0	180.8	123.8	108.0	111.9	106.7	96.6	59.2	25.3
55°	746.5	639.8	502.6	434.2	418.3	319.9	238.5	199.0	180.5	130.3	86.3
52.5°	948.3	881.6	777.8	634.8	558.4	529.8	452.9	362.4	287.9	230.2	165.3
50°	1189.0	1206.8	1100.3	902.3	824.1	739.3	664.6	559.9	465.5	373.4	275.6
47.5°	1939.8	1806.9	1700.1	1552.3	1271.7	1092.6	974.9	803.2	673.9	562.5	441.8
45°	2586.4	2434.3	2329.8	2100.5	1802.4	1525.2	1340.2	1125.1	896.2	747.0	637.6
42.5°	3045.6	2848.8	2677.2	2490.1	2205.2	1892.6	1638.8	1426.0	1185.3	943.5	797.8
40°	3495.0	3183.0	3012.9	2845.4	2576.9	2226.2	2028.4	1715.9	1464.6	1196.5	997.6
37.5°	4165.2	3634.7	3574.6	3413.3	3109.6	2744.8	2522.3	2214.0	1747.9	1495.1	1266.5
35°	5297.8	4751.3	4435.8	4277.7	3883.9	3419.1	3052.8	2764.9	2302.4	1804.7	1541.2
32.5°	6546.0	5854.3	5375.5	5149.9	4727.3	4096.6	3644.7	3278.5	2814.4	2251.1	1828.5
30°	7250.7	6620.0	6043.3	5657.7	5246.9	4704.7	4186.2	3669.1	3165.2	2699.1	2139.8
27.5°	7906.6	7120.2	6498.4	6063.2	5678.6	5157.3	4583.6	4029.4	3475.6	3015.1	2516.2
25°	8531.5	7660.0	6982.4	6471.3	6024.1	5611.4	4962.9	4357.3	3779.7	3270.7	2880.5
22.5°	9113.6	8304.6	7523.8	6855.6	6476.8	6033.8	5394.4	4660.9	4096.6	3668.5	3209.2
20°	10072.2	9166.6	8178.0	7599.9	7247.5	6563.2	5839.8	5114.4	4596.1	4105.9	3565.7
17.5°	11652.5	10522.5	9340.4	8721.3	8222.3	7383.0	6461.1	5741.5	5094.4	4548.2	3953.7
15°	13382.6	11927.9	10756.7	9957.0	9166.5	8183.3	7116.3	6338.9	5603.6	4989.0	4310.2
12.5°	14237.7	12852.8	11816.7	10689.7	9669.9	8779.1	7769.4	6912.2	6077.7	5276.8	4530.7
10°	14747.9	13371.7	12199.7	11074.7	10052.5	9195.3	8257.6	7242.0	6315.0	5467.4	4714.7
7.5°	15144.7	13726.8	12478.6	11358.7	10322.8	9418.6	8521.1	7456.5	6504.7	5621.4	4862.2
5°	15419.4	14003.5	12737.8	11605.5	10515.0	9578.8	8716.8	7618.8	6646.1	5738.3	4974.3
2.5°	15702.7	14218.3	12900.1	11765.0	10637.5	9680.3	8835.2	7742.8	6761.0	5825.0	5067.7
0°	15813.0	14342.2	13013.2	11848.5	10706.3	9720.7	8869.6	7824.4	6838.9	5875.7	5129.1
-2.5°	15884.1	14382.7	13057.5	11902.7	10797.2	9784.6	8908.3	7915.9	6863.5	5930.3	5146.3
-5°	15776.2	14335.0	13020.3	11857.9	10799.0	9789.5	8881.3	7929.4	6857.3	5944.9	5133.0
-7.5°	15643.8	14208.6	12879.1	11738.8	10721.1	9722.1	8801.0	7870.1	6833.8	5921.0	5107.7
-10°	15420.2	14007.0	12741.5	11614.8	10584.2	9578.3	8684.0	7757.5	6757.5	5853.3	5048.4
-12.5°	15121.7	13752.5	12502.6	11388.3	10399.7	9430.2	8554.4	7601.8	6627.2	5740.4	4954.5
-15°	14727.3	13419.4	12206.8	11120.7	10164.5	9237.6	8362.4	7429.6	6500.3	5601.3	4825.8
-17.5°	14295.8	12980.0	11785.7	10762.6	9855.6	8976.9	8118.1	7248.7	6354.0	5470.8	4709.8
-20°	13805.9	12513.6	11330.7	10339.0	9483.1	8650.5	7856.4	7046.3	6150.9	5320.7	4588.1



REPORT NUMBER: P627740 (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°	13101.0	11959.5	10875.0	9902.6	9084.4	8322.3	7557.5	6774.3	5887.5	5132.7	4422.4
-25°	12404.2	11342.8	10367.9	9474.2	8684.0	7960.3	7216.4	6440.0	5653.1	4911.8	4219.8
-27.5°	11722.2	10739.2	9767.9	8964.4	8254.8	7547.8	6848.9	6114.4	5389.9	4663.3	4029.4
-30°	10986.0	10066.6	9190.8	8436.7	7764.9	7110.9	6482.2	5796.4	5083.7	4394.1	3824.0
-32.5°	10177.4	9370.5	8598.7	7888.7	7260.8	6681.3	6084.8	5434.7	4730.3	4142.5	3586.1
-35°	9392.6	8647.8	7981.7	7355.5	6785.6	6255.2	5677.7	5026.7	4408.3	3856.6	3317.8
-37.5°	8690.3	7964.8	7348.0	6808.5	6332.4	5829.6	5253.7	4676.1	4094.6	3538.4	3068.2
-40°	7963.6	7286.6	6738.8	6300.2	5844.6	5392.0	4885.1	4348.0	3774.2	3230.9	2823.3
-42.5°	7259.1	6712.9	6172.8	5733.8	5325.4	4954.8	4527.2	3984.9	3457.6	2985.6	2593.9
-45°	6569.3	6073.1	5580.1	5179.7	4840.1	4492.6	4110.3	3617.4	3143.7	2738.6	2369.2
-47.5°	5860.6	5442.8	5031.6	4659.5	4355.8	4018.3	3649.3	3231.8	2843.6	2478.5	2151.3
-50°	5180.2	4841.3	4508.6	4186.2	3878.8	3549.3	3219.6	2882.6	2536.3	2218.0	1921.1
-52.5°	4539.5	4258.8	3977.8	3695.6	3426.9	3138.9	2834.7	2535.0	2230.3	1964.4	1699.2
-55°	3936.8	3696.3	3473.3	3247.0	3020.6	2760.7	2486.4	2216.4	1973.3	1729.0	1512.8
-57.5°	3403.3	3192.1	3014.7	2829.9	2638.5	2408.5	2173.8	1945.6	1743.9	1541.8	1341.6
-60°	2932.0	2747.9	2595.8	2434.7	2264.8	2072.5	1886.2	1705.5	1531.1	1366.1	1193.8
-62.5°	2486.8	2338.2	2201.3	2064.8	1926.8	1781.1	1621.7	1475.9	1340.8	1201.9	1046.0
-65°	2065.7	1949.3	1834.3	1724.1	1610.7	1493.6	1366.7	1251.4	1141.0	1028.2	893.5
-67.5°	1681.5	1590.5	1497.3	1405.1	1316.7	1223.8	1127.3	1031.1	941.1	849.2	739.8
-70°	1353.7	1285.1	1212.6	1135.7	1062.5	989.7	915.1	837.3	755.0	679.9	605.0
-72.5°	1092.6	1043.3	989.1	927.0	861.0	798.2	737.6	677.0	614.5	550.2	484.9
-75°	882.9	846.8	805.6	753.7	700.3	645.7	594.7	542.5	485.4	423.1	362.3
-77.5°	699.2	677.0	651.7	610.2	568.3	526.0	480.4	423.5	365.4	307.9	257.8
-80°	524.1	513.6	498.6	462.5	426.5	390.6	352.6	302.9	253.4	207.1	169.8
-82.5°	345.9	338.7	329.1	305.0	281.3	257.9	234.0	199.4	166.4	135.1	107.5
-85°	189.0	182.9	176.1	164.7	153.3	142.0	130.5	111.5	93.6	76.9	62.0
-87.5°	69.1	66.8	64.4	61.9	59.4	56.9	54.3	48.7	43.2	38.0	32.9
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627740 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-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°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	20.5	18.7	16.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	3.9
85°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.5	1.2	2.3
82.5°	0.0	0.0	0.0	0.1	1.2	1.9	2.2	2.0	1.1	0.2	0.6
80°	0.0	0.0	0.0	0.2	1.9	4.0	4.9	5.1	3.9	2.7	1.5
77.5°	0.0	0.0	0.0	0.1	0.8	2.2	4.3	6.8	6.8	5.2	3.7
75°	0.0	0.0	0.0	0.3	0.5	0.1	1.6	3.9	6.1	7.4	5.9
72.5°	0.0	0.0	0.0	0.9	2.0	2.1	1.2	1.3	4.3	6.4	7.4
70°	1.1	0.4	0.0	1.2	3.1	4.6	4.3	3.4	2.9	5.5	7.1
67.5°	3.5	3.8	2.8	2.1	3.4	5.2	7.0	6.7	5.8	4.9	6.9
65°	8.7	8.1	7.4	6.5	5.6	5.5	7.3	9.2	8.7	7.5	6.8
62.5°	13.1	13.0	12.0	10.9	9.7	8.4	7.8	10.3	11.3	10.0	8.5
60°	16.8	17.5	16.7	15.2	13.8	12.2	11.1	11.7	13.0	12.6	10.7
57.5°	23.3	22.6	22.2	20.2	17.8	15.9	15.0	14.6	15.0	14.8	12.9
55°	41.0	28.5	28.7	26.5	22.8	19.7	18.8	18.1	17.4	17.0	15.1
52.5°	103.7	57.6	37.0	34.1	29.7	24.3	22.7	21.7	20.5	19.5	17.3
50°	191.5	124.0	70.2	44.0	37.5	32.0	26.6	25.2	23.7	22.1	19.4
47.5°	306.5	213.2	138.5	69.5	48.4	40.0	33.2	28.7	26.9	24.9	21.5
45°	472.2	314.1	217.7	137.5	64.5	55.2	41.1	32.1	30.0	27.6	23.6
42.5°	656.9	460.8	305.5	207.8	123.3	76.4	49.2	39.0	33.1	30.3	25.8
40°	838.1	636.8	410.3	286.5	186.1	102.4	70.8	46.5	36.1	33.3	28.4
37.5°	1038.6	823.1	574.8	370.5	250.1	156.3	97.0	54.2	41.1	36.4	31.0
35°	1286.6	1029.6	739.4	493.7	331.2	206.4	126.1	69.0	50.5	39.7	33.7
32.5°	1534.1	1235.9	917.3	636.8	415.9	252.5	164.0	98.5	61.5	43.1	36.5
30°	1783.4	1424.8	1084.9	769.4	513.5	326.5	204.9	127.2	74.1	46.6	39.4
27.5°	2007.8	1603.0	1241.7	907.8	627.9	404.7	247.7	154.9	88.1	52.8	42.2
25°	2261.2	1795.7	1396.0	1040.2	732.5	486.1	291.5	182.1	108.5	63.6	45.2
22.5°	2587.3	1993.7	1539.0	1160.2	836.1	564.1	347.9	218.1	131.0	75.0	48.1
20°	2911.6	2187.1	1679.1	1310.6	948.8	651.8	413.1	253.8	152.3	86.8	51.0
17.5°	3229.8	2434.9	1883.0	1464.1	1069.4	733.8	474.0	288.9	172.4	98.8	53.9
15°	3515.1	2718.8	2083.4	1609.4	1187.4	809.7	530.3	323.0	191.2	110.9	57.7
12.5°	3754.7	2963.5	2272.1	1745.3	1301.2	879.0	581.8	355.6	208.6	124.4	62.9
10°	3952.7	3170.5	2447.0	1870.9	1408.6	941.3	628.2	388.4	229.0	138.6	68.3
7.5°	4110.8	3341.5	2606.2	1984.9	1506.1	999.6	678.1	422.9	248.7	152.2	73.9
5°	4229.8	3474.9	2729.2	2066.7	1583.6	1053.2	724.1	454.6	267.0	164.9	79.4
2.5°	4307.2	3573.1	2820.4	2130.8	1646.7	1098.2	764.6	483.0	283.7	176.4	84.7
0°	4352.7	3643.4	2889.3	2180.1	1694.8	1134.8	798.9	507.7	298.6	186.7	89.6
-2.5°	4393.4	3689.4	2949.5	2265.9	1727.8	1194.7	820.9	530.0	322.2	194.1	98.7
-5°	4406.8	3709.7	2989.0	2332.1	1747.8	1243.3	836.3	548.1	342.9	200.0	107.0
-7.5°	4384.1	3697.6	3002.8	2369.7	1757.1	1277.5	845.2	562.3	359.7	204.7	114.3
-10°	4333.6	3657.5	2984.6	2358.4	1769.8	1288.3	850.4	572.8	371.9	208.1	120.4
-12.5°	4258.7	3597.1	2945.3	2333.3	1767.6	1281.4	864.4	580.9	378.3	210.5	124.8
-15°	4160.7	3518.0	2885.3	2296.3	1746.4	1266.0	868.0	583.9	377.6	214.8	127.6
-17.5°	4045.2	3422.1	2804.9	2249.2	1705.0	1242.8	860.1	580.3	373.8	221.3	130.3
-20°	3929.6	3315.6	2709.6	2193.5	1642.5	1212.7	840.2	569.6	367.0	225.5	133.0



REPORT NUMBER: P627740 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3794.1	3193.2	2627.2	2115.8	1574.9	1176.3	807.4	551.5	357.2	227.3	134.2
-25°	3638.3	3050.4	2528.1	2009.0	1521.7	1135.2	773.7	525.7	344.5	226.7	133.8
-27.5°	3462.3	2897.8	2411.5	1892.0	1466.3	1077.9	741.6	506.8	333.7	223.4	131.8
-30°	3265.9	2754.1	2272.0	1779.6	1398.7	1015.9	699.7	485.6	328.8	219.3	128.1
-32.5°	3054.2	2592.3	2122.1	1693.8	1321.8	951.5	662.6	461.7	320.6	213.9	128.3
-35°	2855.6	2416.3	1969.1	1594.9	1240.2	913.3	637.9	435.1	309.1	206.5	129.0
-37.5°	2643.0	2231.8	1847.9	1491.7	1154.4	869.5	617.9	423.2	294.1	197.0	128.5
-40°	2438.4	2056.7	1707.6	1393.4	1090.8	820.2	586.3	409.9	279.7	185.4	126.8
-42.5°	2231.4	1892.1	1573.4	1286.4	1030.8	772.5	545.9	389.6	268.1	178.7	123.9
-45°	2040.8	1722.1	1430.7	1193.1	964.2	711.4	514.9	364.1	253.9	173.9	121.2
-47.5°	1840.4	1549.0	1300.3	1090.9	877.0	645.0	475.4	343.9	236.7	167.6	119.5
-50°	1633.7	1385.1	1178.3	978.6	770.4	589.7	433.2	320.0	230.6	162.7	116.5
-52.5°	1452.7	1241.1	1053.5	863.2	689.9	524.9	401.1	294.3	222.4	158.5	112.4
-55°	1296.9	1104.2	930.6	768.6	613.2	477.2	364.9	282.0	212.3	153.3	107.3
-57.5°	1159.2	977.3	829.7	684.2	549.2	431.3	339.3	267.4	201.7	146.1	102.8
-60°	1025.3	876.1	738.1	608.4	489.5	391.7	319.4	250.7	189.2	137.0	97.8
-62.5°	901.6	770.1	650.1	532.9	435.9	359.5	296.6	231.1	174.2	125.6	91.1
-65°	771.7	659.8	558.3	466.2	387.3	321.7	267.1	209.0	154.6	111.9	82.5
-67.5°	636.8	554.6	475.4	398.7	334.2	279.2	233.2	179.6	131.7	96.0	72.4
-70°	530.3	458.0	390.8	330.7	278.1	233.2	190.6	145.2	106.2	82.2	61.7
-72.5°	422.2	363.2	308.2	260.3	222.8	184.7	145.9	111.1	88.0	67.8	50.5
-75°	312.5	272.6	236.8	203.5	169.7	136.4	111.2	88.3	69.3	52.8	42.6
-77.5°	226.8	198.0	171.6	150.5	127.3	105.1	84.0	64.7	52.5	43.8	35.8
-80°	154.1	139.0	124.4	109.6	90.9	73.2	60.6	49.8	42.3	35.3	28.8
-82.5°	97.1	89.0	81.7	74.3	63.4	53.6	45.0	37.6	31.9	26.6	23.4
-85°	57.6	53.2	49.0	44.8	38.8	33.5	31.0	28.7	26.2	23.7	21.2
-87.5°	32.5	32.0	31.5	30.9	29.4	28.0	26.7	25.6	23.4	21.2	19.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.7	5.6

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	14.9	13.1	11.2	9.3	7.5	7.5	7.5
87.5°	5.6	6.3	6.9	7.3	7.5	7.5	7.5
85°	3.6	5.1	6.2	7.0	7.5	7.5	7.5
82.5°	1.8	3.9	5.6	6.8	7.5	7.5	7.5
80°	0.4	2.8	5.0	6.6	7.5	7.5	7.5
77.5°	2.3	2.5	4.4	6.4	7.5	7.5	7.5
75°	4.2	3.7	4.1	6.2	7.5	7.5	7.5
72.5°	6.0	4.9	4.8	6.0	7.5	7.5	7.5
70°	7.5	6.0	5.4	6.0	7.5	7.5	7.5
67.5°	7.7	7.0	6.0	6.3	7.5	7.5	7.5
65°	8.0	7.8	6.5	6.5	7.5	7.5	7.5
62.5°	8.4	8.3	7.0	6.7	7.5	7.5	7.5
60°	8.9	9.0	7.5	6.9	7.5	7.5	7.5
57.5°	10.6	9.7	8.2	7.1	7.6	7.5	7.5
55°	12.5	10.5	8.9	7.3	7.7	7.5	7.5
52.5°	14.4	11.4	9.7	7.4	7.8	7.5	7.5
50°	16.2	12.9	10.5	7.5	8.0	7.5	7.5
47.5°	18.0	14.4	11.4	7.7	8.2	7.5	7.5
45°	19.7	15.9	12.3	8.3	8.4	7.5	7.5
42.5°	21.5	17.3	13.2	9.0	8.6	7.5	7.5
40°	23.1	18.7	14.2	9.9	8.9	7.5	7.5
37.5°	24.7	20.0	15.3	10.9	9.2	7.5	7.5
35°	26.3	21.4	16.4	11.9	9.5	7.5	7.5
32.5°	28.0	22.6	17.4	12.8	9.8	7.5	7.5
30°	30.3	23.8	18.3	13.8	10.2	7.5	7.5
27.5°	32.5	25.0	19.5	14.7	10.6	7.5	7.5
25°	34.7	26.1	20.7	15.5	11.0	7.5	7.5
22.5°	36.9	27.2	21.8	16.4	11.4	7.5	7.5
20°	39.0	28.6	22.9	17.2	11.8	7.5	7.5
17.5°	41.2	29.9	23.9	18.0	12.2	7.5	7.5
15°	43.2	31.1	24.9	18.7	12.6	7.5	7.5
12.5°	45.1	32.3	25.9	19.4	13.0	7.5	7.5
10°	46.9	33.5	26.8	20.1	13.4	7.5	7.5
7.5°	48.5	34.5	27.7	20.7	13.8	7.5	7.5
5°	49.9	35.5	28.5	21.3	14.2	7.5	7.5
2.5°	51.2	36.4	29.2	21.9	14.6	7.5	7.5
0°	52.3	37.3	29.9	22.4	14.9	7.5	7.5
-2.5°	55.2	38.1	30.5	22.4	14.9	7.5	7.5
-5°	57.8	38.8	31.1	22.3	14.8	7.5	7.5
-7.5°	60.2	39.5	31.5	22.2	14.8	7.5	7.5
-10°	62.1	40.0	31.9	22.1	14.7	7.5	7.5
-12.5°	63.5	40.5	32.1	21.9	14.5	7.5	7.5
-15°	64.5	40.9	32.2	21.6	14.4	7.5	7.5
-17.5°	64.8	41.3	32.2	21.4	14.2	7.5	7.5
-20°	66.5	41.5	31.9	21.0	14.0	7.5	7.5

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	70.7	41.7	31.6	20.7	13.8	7.5	7.5
-25°	74.2	44.4	31.0	20.3	13.5	7.5	7.5
-27.5°	76.9	47.9	30.2	19.8	13.2	7.5	7.5
-30°	78.8	50.9	29.5	19.4	12.9	7.5	7.5
-32.5°	79.8	53.4	30.6	18.9	12.6	7.5	7.5
-35°	81.9	55.3	31.4	18.3	12.2	7.5	7.5
-37.5°	84.1	56.5	31.9	17.7	11.8	7.5	7.5
-40°	85.4	57.0	32.1	17.1	11.4	7.5	7.5
-42.5°	85.9	57.0	32.4	16.8	11.0	7.5	7.5
-45°	85.5	56.6	32.5	16.9	10.6	7.5	7.5
-47.5°	84.2	55.7	32.3	16.7	10.1	7.5	7.5
-50°	82.4	54.4	31.7	16.5	9.6	7.5	7.5
-52.5°	80.1	52.7	30.7	16.2	9.1	7.5	7.5
-55°	77.2	50.6	29.4	15.8	8.6	7.5	7.5
-57.5°	73.8	47.8	27.8	15.2	8.0	7.5	7.5
-60°	69.7	44.6	25.8	14.5	7.5	7.5	7.5
-62.5°	64.1	40.8	24.4	13.8	7.5	7.5	7.5
-65°	57.8	36.5	22.8	12.9	7.5	7.5	7.5
-67.5°	50.8	32.8	21.1	11.9	7.5	7.5	7.5
-70°	43.3	29.8	19.1	10.8	7.5	7.5	7.5
-72.5°	38.2	26.6	17.1	10.6	7.5	7.5	7.5
-75°	33.3	23.2	14.9	10.5	7.5	7.5	7.5
-77.5°	28.1	19.6	14.1	10.3	7.5	7.5	7.5
-80°	22.7	17.6	13.6	10.2	7.5	7.5	7.5
-82.5°	20.5	16.6	13.1	10.0	7.5	7.5	7.5
-85°	18.7	15.4	12.5	9.8	7.5	7.5	7.5
-87.5°	16.8	14.3	11.8	9.6	7.5	7.5	7.5
-90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5

(END OF REPORT)