

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: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-722-U-VWR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/7/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4D-722-U-VWR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N87  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

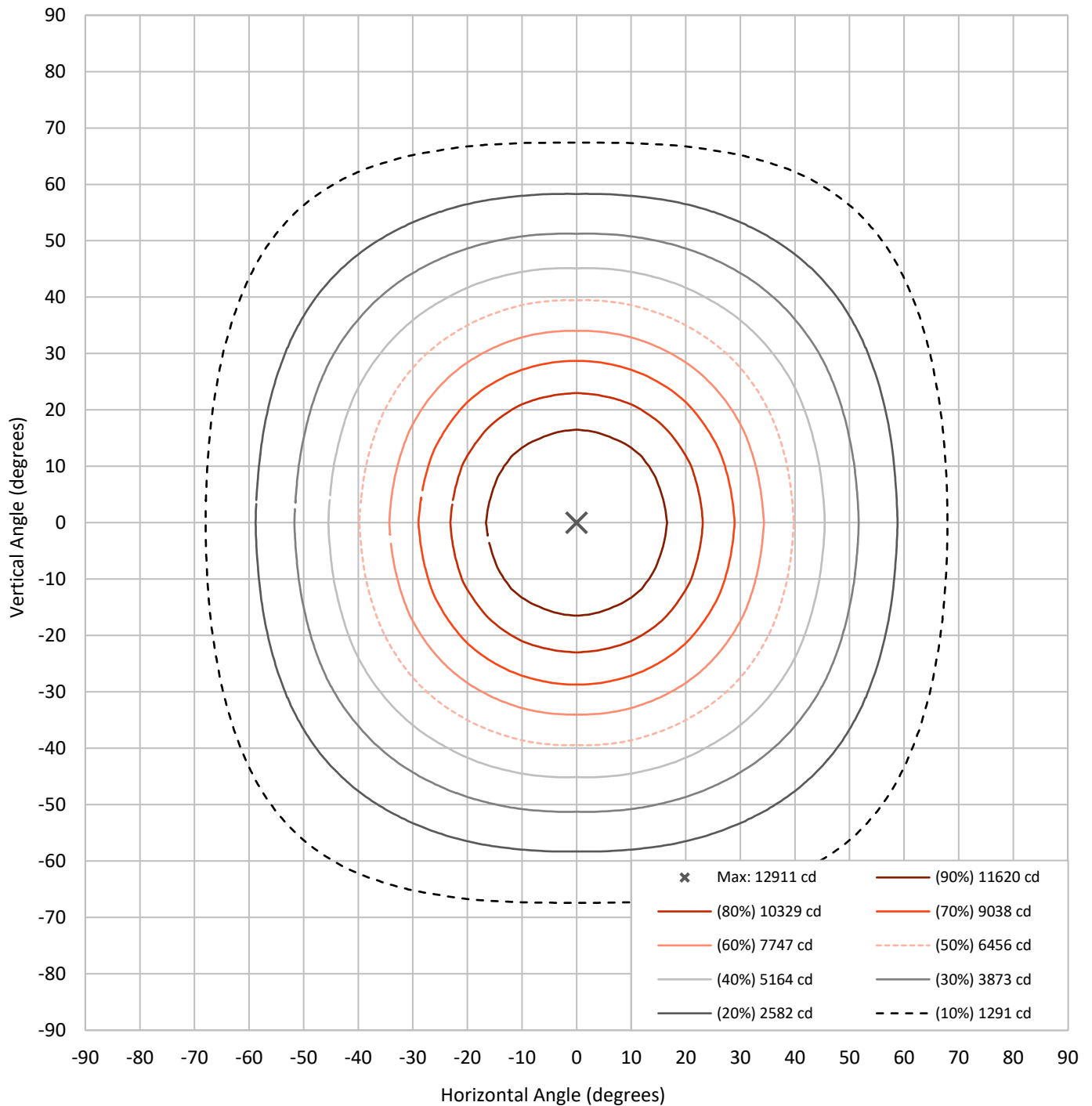
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	23335.5 lumens	Max Intensity:	12911 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	105.4 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	79.6°H x 78.9°V	Field Angle (10%):	135.9°H x 134.8°V
Beam Lumens:	13686.4 lumens	Field Lumens:	22246.3 lumens
Beam Efficiency:	58.7%	Field Efficiency:	95.3%
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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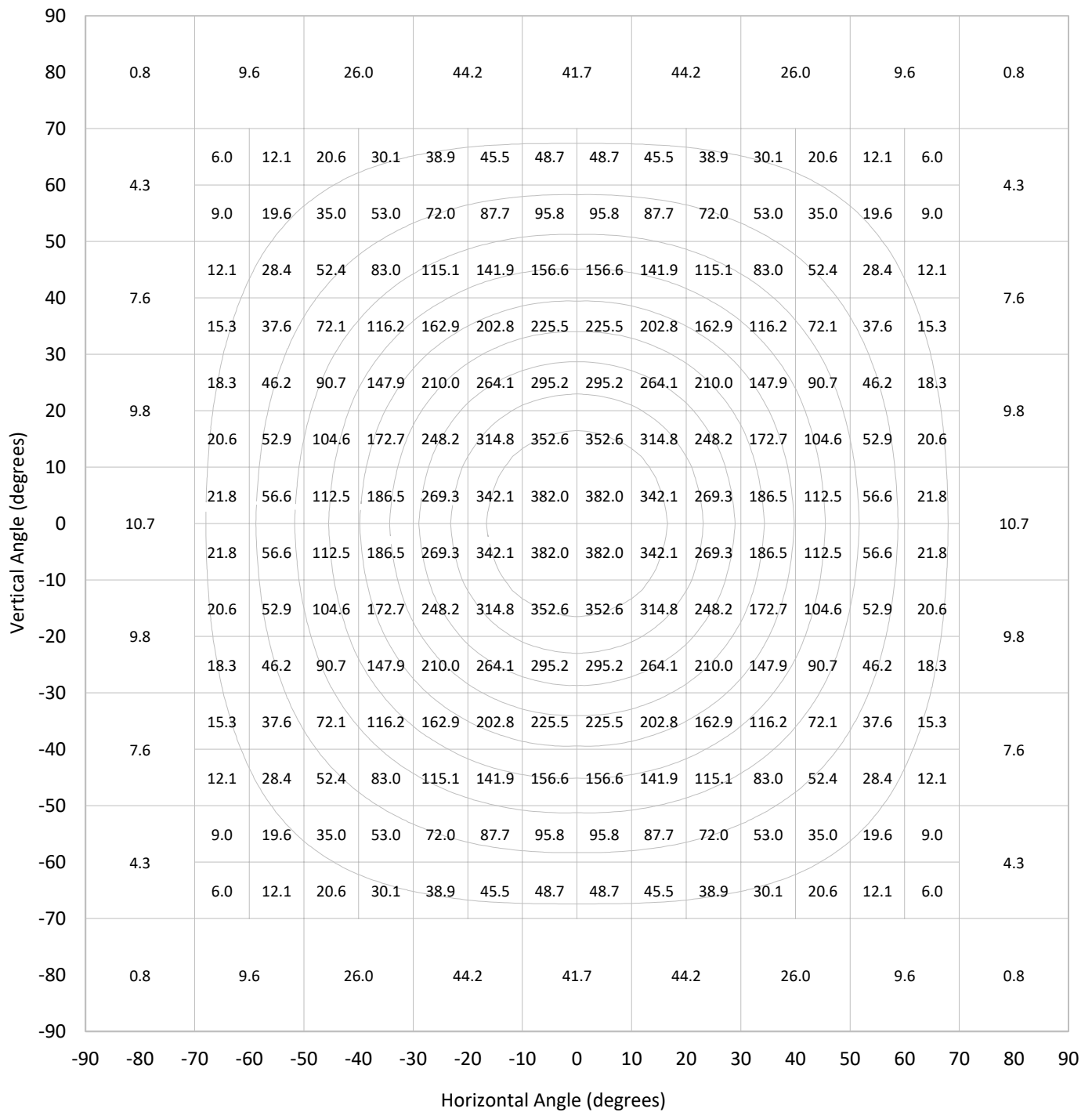
### Iso-Candela Plot





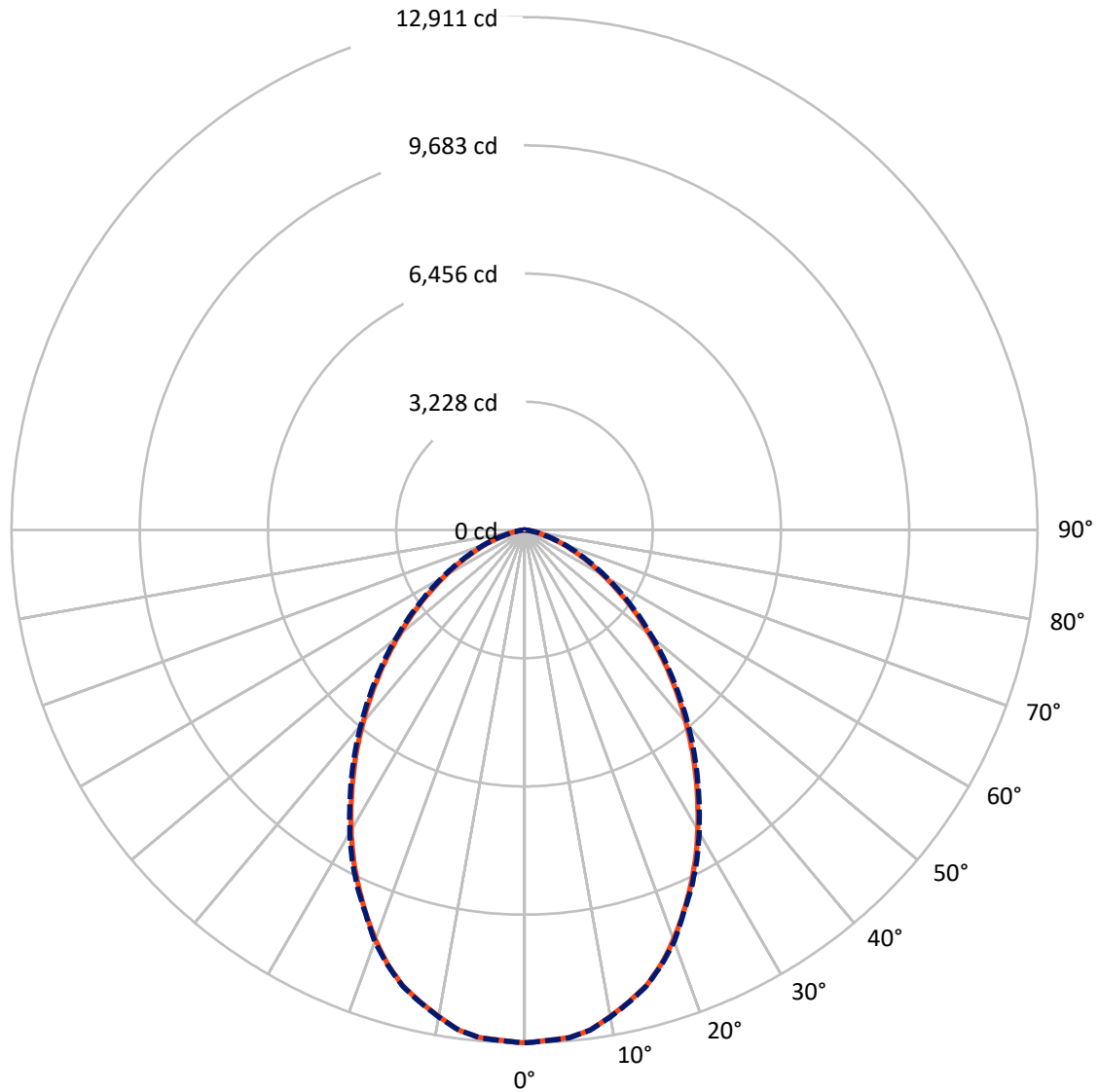
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### Lumen Table



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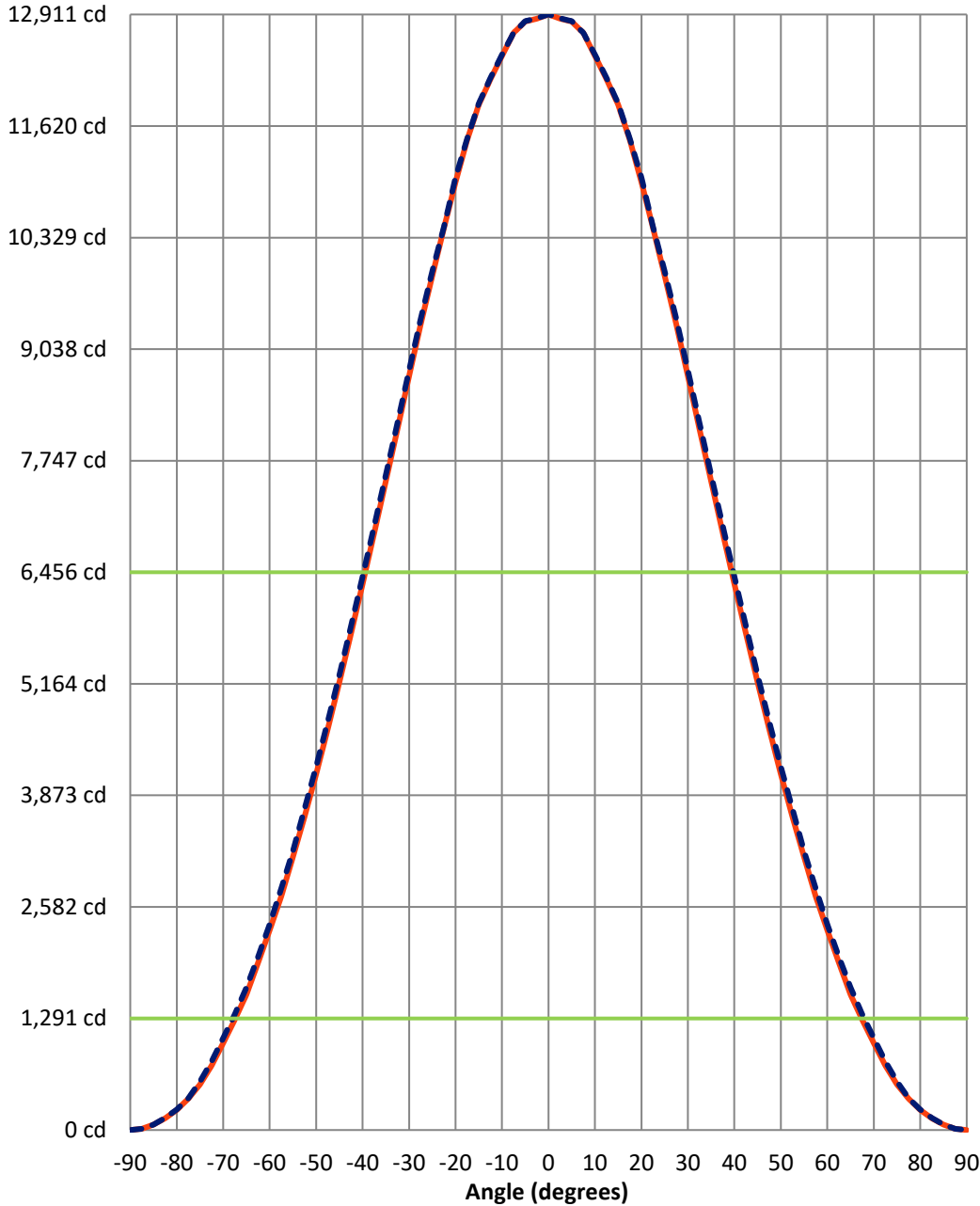
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 79.6°  
 V Angle: 78.9°  
 Lumens: 13686.4  
 Efficiency: 58.7%

**Field:**  
 H Angle: 135.9°  
 V Angle: 134.8°  
 Lumens: 22246.3  
 Efficiency: 95.3%

**Spill:**  
 Lumens: 1089.1  
 Efficiency: 4.7%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg

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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.7	1.7	2.5	3.4	4.2	5.0	5.8	6.6	7.4	8.2
85°	0.0	1.5	3.4	5.1	6.7	8.4	10.0	11.7	13.3	14.8	16.4
82.5°	0.0	2.2	5.0	7.6	10.1	12.6	15.0	17.5	21.8	34.3	46.3
80°	0.0	2.9	6.7	10.1	13.4	16.7	22.6	40.2	57.1	73.4	88.9
77.5°	0.0	3.7	8.3	12.6	16.7	26.2	49.2	71.3	92.2	112.2	137.0
75°	0.0	4.4	9.9	15.0	21.8	45.3	75.1	102.2	128.3	164.1	202.2
72.5°	0.0	5.1	11.5	17.5	34.7	63.8	100.2	135.5	176.4	220.0	266.2
70°	0.0	5.7	13.1	20.9	47.1	81.7	125.3	175.3	223.5	274.9	334.9
67.5°	0.0	6.4	14.5	28.6	59.1	98.8	155.5	214.3	269.6	334.4	403.3
65°	0.0	7.1	16.0	36.0	70.6	118.0	184.3	252.2	319.3	392.2	467.3
62.5°	0.0	7.7	17.4	43.1	81.4	139.0	211.7	291.7	367.4	447.5	524.5
60°	0.0	8.3	18.7	49.8	91.6	158.9	237.5	331.0	413.7	499.2	580.9
57.5°	0.0	8.9	22.5	56.1	105.2	177.6	264.6	367.6	459.4	550.1	634.5
55°	0.0	9.5	26.2	62.0	118.2	194.9	290.4	399.3	504.3	599.2	685.8
52.5°	0.0	10.0	29.7	67.4	130.3	211.4	314.2	432.2	548.2	644.4	735.9
50°	0.0	10.5	33.1	72.4	141.4	228.9	336.0	463.4	589.8	688.2	793.2
47.5°	0.0	11.0	36.3	77.5	151.5	244.9	356.5	492.5	627.6	730.7	849.4
45°	0.0	11.5	39.4	84.2	160.6	259.3	379.3	519.3	656.9	778.7	903.2
42.5°	0.0	11.9	42.3	90.3	168.7	272.2	400.1	543.9	685.0	824.6	966.5
40°	0.0	12.3	45.0	96.5	176.8	283.4	419.1	567.2	714.1	867.7	1028.2
37.5°	0.0	12.7	47.6	102.7	184.8	292.9	436.0	589.3	746.9	908.5	1086.1
35°	0.0	13.0	49.9	108.4	191.7	304.0	451.0	610.1	778.8	955.6	1144.4
32.5°	0.0	13.3	52.1	113.7	197.5	315.1	464.8	629.5	809.8	1000.8	1206.1
30°	0.0	13.6	54.1	118.6	202.1	324.5	479.2	649.0	839.7	1044.0	1263.8
27.5°	0.0	13.9	55.9	122.9	209.0	332.3	492.1	671.7	870.5	1085.0	1317.3
25°	0.0	14.1	57.5	126.9	215.5	338.5	503.4	692.7	902.6	1126.8	1366.9
22.5°	0.0	14.3	59.0	130.3	221.2	344.8	513.2	711.9	932.2	1166.3	1419.6
20°	0.0	14.4	60.2	133.3	226.1	353.4	521.2	729.3	959.0	1201.6	1466.9
17.5°	0.0	14.5	61.2	135.8	230.2	360.4	531.2	744.5	982.9	1232.6	1508.6
15°	0.0	14.6	62.0	137.8	233.6	365.8	541.7	759.1	1003.6	1259.1	1544.5
12.5°	0.0	14.7	62.7	139.4	236.1	369.7	550.2	772.8	1022.4	1281.2	1574.6
10°	0.0	14.7	63.1	140.5	237.9	372.2	556.6	783.3	1038.6	1301.9	1600.0
7.5°	0.0	14.7	63.3	141.2	238.8	373.1	561.0	790.7	1051.1	1318.6	1621.9
5°	0.0	14.7	63.4	141.3	239.0	372.7	563.3	794.8	1059.7	1330.7	1637.6
2.5°	0.0	14.6	63.2	141.0	238.4	370.9	563.4	795.8	1064.2	1338.0	1647.1
0°	0.0	14.5	62.9	140.3	237.1	367.8	561.3	793.6	1064.6	1340.5	1650.2
-2.5°	0.0	14.6	63.2	141.0	238.4	370.9	563.4	795.8	1064.2	1338.0	1647.1
-5°	0.0	14.7	63.4	141.3	239.0	372.7	563.3	794.8	1059.7	1330.7	1637.6
-7.5°	0.0	14.7	63.3	141.2	238.8	373.1	561.0	790.7	1051.1	1318.6	1621.9
-10°	0.0	14.7	63.1	140.5	237.9	372.2	556.6	783.3	1038.6	1301.9	1600.0
-12.5°	0.0	14.7	62.7	139.4	236.1	369.7	550.2	772.8	1022.4	1281.2	1574.6
-15°	0.0	14.6	62.0	137.8	233.6	365.8	541.7	759.1	1003.6	1259.1	1544.5
-17.5°	0.0	14.5	61.2	135.8	230.2	360.4	531.2	744.5	982.9	1232.6	1508.6
-20°	0.0	14.4	60.2	133.3	226.1	353.4	521.2	729.3	959.0	1201.6	1466.9

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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	14.3	59.0	130.3	221.2	344.8	513.2	711.9	932.2	1166.3	1419.6
-25°	0.0	14.1	57.5	126.9	215.5	338.5	503.4	692.7	902.6	1126.8	1366.9
-27.5°	0.0	13.9	55.9	122.9	209.0	332.3	492.1	671.7	870.5	1085.0	1317.3
-30°	0.0	13.6	54.1	118.6	202.1	324.5	479.2	649.0	839.7	1044.0	1263.8
-32.5°	0.0	13.3	52.1	113.7	197.5	315.1	464.8	629.5	809.8	1000.8	1206.1
-35°	0.0	13.0	49.9	108.4	191.7	304.0	451.0	610.1	778.8	955.6	1144.4
-37.5°	0.0	12.7	47.6	102.7	184.8	292.9	436.0	589.3	746.9	908.5	1086.1
-40°	0.0	12.3	45.0	96.5	176.8	283.4	419.1	567.2	714.1	867.7	1028.2
-42.5°	0.0	11.9	42.3	90.3	168.7	272.2	400.1	543.9	685.0	824.6	966.5
-45°	0.0	11.5	39.4	84.2	160.6	259.3	379.3	519.3	656.9	778.7	903.2
-47.5°	0.0	11.0	36.3	77.5	151.5	244.9	356.5	492.5	627.6	730.7	849.4
-50°	0.0	10.5	33.1	72.4	141.4	228.9	336.0	463.4	589.8	688.2	793.2
-52.5°	0.0	10.0	29.7	67.4	130.3	211.4	314.2	432.2	548.2	644.4	735.9
-55°	0.0	9.5	26.2	62.0	118.2	194.9	290.4	399.3	504.3	599.2	685.8
-57.5°	0.0	8.9	22.5	56.1	105.2	177.6	264.6	367.6	459.4	550.1	634.5
-60°	0.0	8.3	18.7	49.8	91.6	158.9	237.5	331.0	413.7	499.2	580.9
-62.5°	0.0	7.7	17.4	43.1	81.4	139.0	211.7	291.7	367.4	447.5	524.5
-65°	0.0	7.1	16.0	36.0	70.6	118.0	184.3	252.2	319.3	392.2	467.3
-67.5°	0.0	6.4	14.5	28.6	59.1	98.8	155.5	214.3	269.6	334.4	403.3
-70°	0.0	5.7	13.1	20.9	47.1	81.7	125.3	175.3	223.5	274.9	334.9
-72.5°	0.0	5.1	11.5	17.5	34.7	63.8	100.2	135.5	176.4	220.0	266.2
-75°	0.0	4.4	9.9	15.0	21.8	45.3	75.1	102.2	128.3	164.1	202.2
-77.5°	0.0	3.7	8.3	12.6	16.7	26.2	49.2	71.3	92.2	112.2	137.0
-80°	0.0	2.9	6.7	10.1	13.4	16.7	22.6	40.2	57.1	73.4	88.9
-82.5°	0.0	2.2	5.0	7.6	10.1	12.6	15.0	17.5	21.8	34.3	46.3
-85°	0.0	1.5	3.4	5.1	6.7	8.4	10.0	11.7	13.3	14.8	16.4
-87.5°	0.0	0.7	1.7	2.5	3.4	4.2	5.0	5.8	6.6	7.4	8.2
-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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 CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	10.9	12.3	13.9	14.0	14.0	13.9	13.7	14.3	14.9	15.4
85°	19.0	21.7	30.2	38.3	42.3	44.7	45.8	45.6	53.0	61.6	70.9
82.5°	58.9	71.0	82.6	93.6	96.5	96.5	95.6	95.9	113.3	133.2	153.7
80°	104.9	120.2	140.7	158.8	166.6	170.7	172.5	172.2	194.2	223.6	254.4
77.5°	166.3	192.2	214.8	233.9	244.3	253.4	260.9	266.6	294.9	332.0	368.8
75°	236.4	264.8	293.1	317.7	334.9	347.7	359.6	378.7	415.8	459.1	496.7
72.5°	310.3	346.6	378.1	404.8	429.0	454.7	483.4	514.8	554.0	597.2	636.5
70°	389.2	429.1	462.1	494.3	527.2	565.7	608.8	651.2	694.8	742.5	788.4
67.5°	466.4	504.9	543.8	584.4	633.7	685.2	736.1	794.6	854.4	907.3	954.7
65°	533.5	578.7	627.2	682.4	743.3	808.6	876.6	946.8	1022.7	1086.2	1144.2
62.5°	597.6	651.9	710.9	779.6	857.2	934.6	1021.4	1109.2	1194.6	1269.5	1338.8
60°	656.6	722.4	797.1	881.3	971.9	1074.8	1173.5	1273.4	1367.1	1451.9	1539.5
57.5°	714.1	796.8	886.4	987.5	1102.1	1217.7	1333.8	1441.2	1547.2	1650.6	1749.6
55°	774.9	874.6	981.2	1105.2	1234.3	1371.1	1496.1	1616.0	1732.8	1858.3	1977.5
52.5°	841.8	953.1	1086.5	1225.3	1374.5	1521.3	1658.7	1795.2	1936.4	2078.4	2233.6
50°	906.3	1045.2	1191.3	1352.7	1514.0	1671.2	1828.7	1985.9	2155.1	2329.2	2505.2
47.5°	981.7	1133.2	1305.9	1479.0	1655.2	1830.2	2005.6	2195.7	2387.8	2589.9	2784.5
45°	1058.1	1228.4	1414.4	1610.2	1800.7	1994.4	2199.6	2409.6	2635.0	2857.2	3091.3
42.5°	1130.4	1322.9	1528.0	1739.5	1951.3	2167.7	2393.4	2638.8	2885.1	3141.3	3398.6
40°	1210.5	1412.8	1639.0	1871.9	2101.8	2341.7	2599.6	2865.4	3144.0	3425.7	3705.1
37.5°	1287.5	1509.9	1747.7	1998.4	2256.4	2520.0	2800.0	3101.7	3403.9	3707.0	4015.2
35°	1359.7	1602.0	1859.5	2125.7	2399.3	2699.1	3012.2	3334.2	3661.6	3989.5	4321.0
32.5°	1433.9	1688.8	1966.4	2251.2	2552.7	2874.3	3217.2	3566.2	3914.9	4265.0	4627.8
30°	1508.3	1779.9	2069.9	2370.0	2699.8	3050.1	3418.7	3788.3	4157.2	4542.5	4929.1
27.5°	1578.6	1866.3	2171.6	2492.7	2840.6	3212.9	3604.3	4000.3	4398.0	4807.7	5220.1
25°	1643.3	1948.1	2266.0	2610.8	2979.6	3369.6	3777.4	4190.6	4626.7	5065.1	5495.8
22.5°	1706.4	2023.2	2353.5	2719.6	3105.5	3515.1	3939.7	4376.0	4831.8	5302.6	5748.2
20°	1767.1	2094.8	2438.6	2818.2	3218.2	3646.1	4087.2	4544.1	5022.3	5505.7	5985.0
17.5°	1821.0	2158.5	2517.8	2910.4	3325.9	3765.8	4220.1	4692.1	5191.6	5692.6	6200.5
15°	1868.0	2213.8	2586.4	2990.8	3421.0	3874.6	4343.5	4828.9	5341.2	5862.9	6390.9
12.5°	1907.7	2260.7	2644.1	3059.2	3501.7	3968.0	4449.5	4951.9	5478.1	6014.4	6557.7
10°	1939.9	2298.9	2690.8	3115.1	3567.6	4045.2	4536.8	5053.4	5595.4	6143.3	6698.1
7.5°	1967.4	2330.8	2727.9	3158.2	3618.4	4105.6	4604.8	5132.5	5688.7	6243.8	6810.8
5°	1987.4	2356.6	2762.0	3194.3	3662.6	4152.8	4656.3	5188.9	5757.1	6315.4	6892.5
2.5°	1999.4	2373.4	2785.2	3217.7	3697.3	4188.1	4702.1	5238.8	5807.1	6372.2	6954.0
0°	2003.4	2380.9	2797.1	3227.7	3716.5	4205.3	4727.9	5265.0	5831.2	6407.1	6992.6
-2.5°	1999.4	2373.4	2785.2	3217.7	3697.3	4188.1	4702.1	5238.8	5807.1	6372.2	6954.0
-5°	1987.4	2356.6	2762.0	3194.3	3662.6	4152.8	4656.3	5188.9	5757.1	6315.4	6892.5
-7.5°	1967.4	2330.8	2727.9	3158.2	3618.4	4105.6	4604.8	5132.5	5688.7	6243.8	6810.8
-10°	1939.9	2298.9	2690.8	3115.1	3567.6	4045.2	4536.8	5053.4	5595.4	6143.3	6698.1
-12.5°	1907.7	2260.7	2644.1	3059.2	3501.7	3968.0	4449.5	4951.9	5478.1	6014.4	6557.7
-15°	1868.0	2213.8	2586.4	2990.8	3421.0	3874.6	4343.5	4828.9	5341.2	5862.9	6390.9
-17.5°	1821.0	2158.5	2517.8	2910.4	3325.9	3765.8	4220.1	4692.1	5191.6	5692.6	6200.5
-20°	1767.1	2094.8	2438.6	2818.2	3218.2	3646.1	4087.2	4544.1	5022.3	5505.7	5985.0



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 CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1706.4	2023.2	2353.5	2719.6	3105.5	3515.1	3939.7	4376.0	4831.8	5302.6	5748.2
-25°	1643.3	1948.1	2266.0	2610.8	2979.6	3369.6	3777.4	4190.6	4626.7	5065.1	5495.8
-27.5°	1578.6	1866.3	2171.6	2492.7	2840.6	3212.9	3604.3	4000.3	4398.0	4807.7	5220.1
-30°	1508.3	1779.9	2069.9	2370.0	2699.8	3050.1	3418.7	3788.3	4157.2	4542.5	4929.1
-32.5°	1433.9	1688.8	1966.4	2251.2	2552.7	2874.3	3217.2	3566.2	3914.9	4265.0	4627.8
-35°	1359.7	1602.0	1859.5	2125.7	2399.3	2699.1	3012.2	3334.2	3661.6	3989.5	4321.0
-37.5°	1287.5	1509.9	1747.7	1998.4	2256.4	2520.0	2800.0	3101.7	3403.9	3707.0	4015.2
-40°	1210.5	1412.8	1639.0	1871.9	2101.8	2341.7	2599.6	2865.4	3144.0	3425.7	3705.1
-42.5°	1130.4	1322.9	1528.0	1739.5	1951.3	2167.7	2393.4	2638.8	2885.1	3141.3	3398.6
-45°	1058.1	1228.4	1414.4	1610.2	1800.7	1994.4	2199.6	2409.6	2635.0	2857.2	3091.3
-47.5°	981.7	1133.2	1305.9	1479.0	1655.2	1830.2	2005.6	2195.7	2387.8	2589.9	2784.5
-50°	906.3	1045.2	1191.3	1352.7	1514.0	1671.2	1828.7	1985.9	2155.1	2329.2	2505.2
-52.5°	841.8	953.1	1086.5	1225.3	1374.5	1521.3	1658.7	1795.2	1936.4	2078.4	2233.6
-55°	774.9	874.6	981.2	1105.2	1234.3	1371.1	1496.1	1616.0	1732.8	1858.3	1977.5
-57.5°	714.1	796.8	886.4	987.5	1102.1	1217.7	1333.8	1441.2	1547.2	1650.6	1749.6
-60°	656.6	722.4	797.1	881.3	971.9	1074.8	1173.5	1273.4	1367.1	1451.9	1539.5
-62.5°	597.6	651.9	710.9	779.6	857.2	934.6	1021.4	1109.2	1194.6	1269.5	1338.8
-65°	533.5	578.7	627.2	682.4	743.3	808.6	876.6	946.8	1022.7	1086.2	1144.2
-67.5°	466.4	504.9	543.8	584.4	633.7	685.2	736.1	794.6	854.4	907.3	954.7
-70°	389.2	429.1	462.1	494.3	527.2	565.7	608.8	651.2	694.8	742.5	788.4
-72.5°	310.3	346.6	378.1	404.8	429.0	454.7	483.4	514.8	554.0	597.2	636.5
-75°	236.4	264.8	293.1	317.7	334.9	347.7	359.6	378.7	415.8	459.1	496.7
-77.5°	166.3	192.2	214.8	233.9	244.3	253.4	260.9	266.6	294.9	332.0	368.8
-80°	104.9	120.2	140.7	158.8	166.6	170.7	172.5	172.2	194.2	223.6	254.4
-82.5°	58.9	71.0	82.6	93.6	96.5	96.5	95.6	95.9	113.3	133.2	153.7
-85°	19.0	21.7	30.2	38.3	42.3	44.7	45.8	45.6	53.0	61.6	70.9
-87.5°	9.5	10.9	12.3	13.9	14.0	14.0	13.9	13.7	14.3	14.9	15.4
-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: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	16.4	16.8	17.2	17.6	17.9	18.2	18.5	18.7	17.7	16.7
85°	80.8	86.6	91.9	97.0	101.9	106.5	110.8	114.8	118.5	108.3	96.9
82.5°	174.5	188.6	201.9	215.1	228.3	231.6	232.7	232.2	230.4	212.3	192.3
80°	285.0	308.7	331.0	353.2	375.1	377.6	375.1	370.6	364.2	340.5	313.7
77.5°	405.4	435.3	461.5	485.4	507.2	511.3	510.7	509.6	507.8	483.7	454.4
75°	528.9	558.2	586.3	610.3	630.3	639.5	644.0	647.2	648.9	631.6	608.8
72.5°	672.2	702.6	727.4	750.7	770.4	784.6	794.9	802.6	807.9	802.6	793.3
70°	827.5	860.1	887.6	913.9	940.6	962.0	978.1	989.9	997.3	1002.2	1005.6
67.5°	1002.5	1046.3	1084.5	1117.1	1149.4	1179.7	1204.5	1224.8	1240.5	1253.8	1264.1
65°	1199.7	1255.6	1305.2	1350.8	1392.5	1436.4	1472.4	1502.7	1527.0	1547.1	1563.2
62.5°	1407.0	1475.5	1539.2	1601.0	1661.5	1721.1	1766.9	1808.6	1845.6	1877.5	1902.8
60°	1622.3	1700.2	1785.7	1867.2	1942.3	2010.9	2079.0	2138.0	2188.5	2230.3	2264.1
57.5°	1853.8	1954.7	2054.6	2155.9	2251.6	2341.2	2425.0	2499.0	2561.5	2612.8	2655.9
55°	2103.9	2230.1	2345.9	2473.7	2597.2	2709.6	2808.6	2895.6	2970.8	3033.8	3087.3
52.5°	2378.8	2532.1	2682.7	2828.1	2968.3	3098.7	3217.2	3318.5	3408.6	3485.8	3547.4
50°	2679.7	2855.2	3029.6	3191.3	3352.4	3502.7	3638.5	3756.1	3860.9	3951.7	4023.1
47.5°	2994.4	3194.1	3388.9	3574.0	3752.3	3919.3	4066.4	4200.4	4331.1	4437.8	4522.1
45°	3321.1	3545.1	3760.0	3971.7	4168.0	4355.2	4536.7	4703.5	4837.7	4955.2	5053.8
42.5°	3651.8	3901.7	4142.3	4373.3	4589.1	4805.6	5009.8	5192.2	5345.1	5478.7	5590.8
40°	3986.8	4260.4	4525.5	4777.3	5024.1	5260.2	5480.9	5673.3	5845.8	6004.4	6136.6
37.5°	4320.1	4621.1	4914.8	5196.9	5468.6	5724.3	5962.9	6180.3	6375.0	6555.7	6702.4
35°	4654.9	4985.1	5306.6	5617.1	5913.9	6196.1	6457.3	6704.6	6934.1	7117.1	7267.2
32.5°	4988.4	5343.4	5693.4	6035.1	6359.9	6664.2	6947.2	7220.5	7456.5	7657.7	7830.3
30°	5311.2	5695.7	6076.8	6447.3	6798.2	7127.9	7441.3	7730.3	7984.1	8204.1	8397.7
27.5°	5627.9	6041.0	6449.9	6845.7	7225.1	7583.4	7925.3	8238.7	8515.7	8754.9	8959.0
25°	5927.2	6371.2	6807.0	7226.8	7632.0	8027.2	8396.4	8738.4	9034.3	9296.8	9506.5
22.5°	6213.1	6686.7	7144.6	7586.2	8019.7	8445.6	8849.8	9206.9	9520.5	9794.9	10027.0
20°	6479.5	6987.0	7455.5	7922.5	8379.1	8833.9	9267.9	9644.7	9976.5	10268.6	10524.5
17.5°	6728.5	7249.1	7742.4	8239.6	8720.8	9197.9	9638.8	10042.8	10400.7	10710.9	10978.9
15°	6939.4	7465.1	8003.8	8534.6	9042.1	9525.3	9965.8	10387.6	10785.1	11120.6	11392.3
12.5°	7110.1	7656.8	8218.8	8782.3	9319.0	9801.5	10262.7	10690.6	11108.1	11485.0	11734.8
10°	7255.6	7818.5	8398.7	8973.4	9517.3	10027.8	10529.2	10981.7	11391.9	11729.4	12008.3
7.5°	7381.4	7961.2	8550.5	9126.1	9668.2	10195.7	10711.9	11192.4	11606.5	11924.5	12173.3
5°	7474.1	8067.7	8668.5	9249.4	9799.0	10328.2	10846.7	11321.2	11725.5	12049.0	12320.3
2.5°	7540.5	8139.7	8744.7	9326.4	9888.3	10418.8	10950.3	11430.1	11821.6	12118.0	12377.8
0°	<b>7583.0</b>	<b>8183.1</b>	<b>8792.8</b>	<b>9388.0</b>	<b>9939.7</b>	<b>10452.6</b>	<b>11023.7</b>	<b>11473.7</b>	<b>11880.2</b>	<b>12175.4</b>	<b>12446.4</b>
-2.5°	7540.5	8139.7	8744.7	9326.4	9888.3	10418.8	10950.3	11430.1	11821.6	12118.0	12377.8
-5°	7474.1	8067.7	8668.5	9249.4	9799.0	10328.2	10846.7	11321.2	11725.5	12049.0	12320.3
-7.5°	7381.4	7961.2	8550.5	9126.1	9668.2	10195.7	10711.9	11192.4	11606.5	11924.5	12173.3
-10°	7255.6	7818.5	8398.7	8973.4	9517.3	10027.8	10529.2	10981.7	11391.9	11729.4	12008.3
-12.5°	7110.1	7656.8	8218.8	8782.3	9319.0	9801.5	10262.7	10690.6	11108.1	11485.0	11734.8
-15°	6939.4	7465.1	8003.8	8534.6	9042.1	9525.3	9965.8	10387.6	10785.1	11120.6	11392.3
-17.5°	6728.5	7249.1	7742.4	8239.6	8720.8	9197.9	9638.8	10042.8	10400.7	10710.9	10978.9
-20°	6479.5	6987.0	7455.5	7922.5	8379.1	8833.9	9267.9	9644.7	9976.5	10268.6	10524.5



REPORT NUMBER: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	6213.1	6686.7	7144.6	7586.2	8019.7	8445.6	8849.8	9206.9	9520.5	9794.9	10027.0
-25°	5927.2	6371.2	6807.0	7226.8	7632.0	8027.2	8396.4	8738.4	9034.3	9296.8	9506.5
-27.5°	5627.9	6041.0	6449.9	6845.7	7225.1	7583.4	7925.3	8238.7	8515.7	8754.9	8959.0
-30°	5311.2	5695.7	6076.8	6447.3	6798.2	7127.9	7441.3	7730.3	7984.1	8204.1	8397.7
-32.5°	4988.4	5343.4	5693.4	6035.1	6359.9	6664.2	6947.2	7220.5	7456.5	7657.7	7830.3
-35°	4654.9	4985.1	5306.6	5617.1	5913.9	6196.1	6457.3	6704.6	6934.1	7117.1	7267.2
-37.5°	4320.1	4621.1	4914.8	5196.9	5468.6	5724.3	5962.9	6180.3	6375.0	6555.7	6702.4
-40°	3986.8	4260.4	4525.5	4777.3	5024.1	5260.2	5480.9	5673.3	5845.8	6004.4	6136.6
-42.5°	3651.8	3901.7	4142.3	4373.3	4589.1	4805.6	5009.8	5192.2	5345.1	5478.7	5590.8
-45°	3321.1	3545.1	3760.0	3971.7	4168.0	4355.2	4536.7	4703.5	4837.7	4955.2	5053.8
-47.5°	2994.4	3194.1	3388.9	3574.0	3752.3	3919.3	4066.4	4200.4	4331.1	4437.8	4522.1
-50°	2679.7	2855.2	3029.6	3191.3	3352.4	3502.7	3638.5	3756.1	3860.9	3951.7	4023.1
-52.5°	2378.8	2532.1	2682.7	2828.1	2968.3	3098.7	3217.2	3318.5	3408.6	3485.8	3547.4
-55°	2103.9	2230.1	2345.9	2473.7	2597.2	2709.6	2808.6	2895.6	2970.8	3033.8	3087.3
-57.5°	1853.8	1954.7	2054.6	2155.9	2251.6	2341.2	2425.0	2499.0	2561.5	2612.8	2655.9
-60°	1622.3	1700.2	1785.7	1867.2	1942.3	2010.9	2079.0	2138.0	2188.5	2230.3	2264.1
-62.5°	1407.0	1475.5	1539.2	1601.0	1661.5	1721.1	1766.9	1808.6	1845.6	1877.5	1902.8
-65°	1199.7	1255.6	1305.2	1350.8	1392.5	1436.4	1472.4	1502.7	1527.0	1547.1	1563.2
-67.5°	1002.5	1046.3	1084.5	1117.1	1149.4	1179.7	1204.5	1224.8	1240.5	1253.8	1264.1
-70°	827.5	860.1	887.6	913.9	940.6	962.0	978.1	989.9	997.3	1002.2	1005.6
-72.5°	672.2	702.6	727.4	750.7	770.4	784.6	794.9	802.6	807.9	802.6	793.3
-75°	528.9	558.2	586.3	610.3	630.3	639.5	644.0	647.2	648.9	631.6	608.8
-77.5°	405.4	435.3	461.5	485.4	507.2	511.3	510.7	509.6	507.8	483.7	454.4
-80°	285.0	308.7	331.0	353.2	375.1	377.6	375.1	370.6	364.2	340.5	313.7
-82.5°	174.5	188.6	201.9	215.1	228.3	231.6	232.7	232.2	230.4	212.3	192.3
-85°	80.8	86.6	91.9	97.0	101.9	106.5	110.8	114.8	118.5	108.3	96.9
-87.5°	15.9	16.4	16.8	17.2	17.6	17.9	18.2	18.5	18.7	17.7	16.7
-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: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	14.4	14.5	14.5	14.5	14.4	15.6	16.7	17.7	18.7	18.5
85°	84.8	72.3	67.7	62.9	67.7	72.3	84.8	96.9	108.3	118.5	114.8
82.5°	171.3	149.5	142.6	135.5	142.6	149.5	171.3	192.3	212.3	230.4	232.2
80°	285.4	255.8	244.2	232.3	244.2	255.8	285.4	313.7	340.5	364.2	370.6
77.5°	423.5	391.1	377.2	362.9	377.2	391.1	423.5	454.4	483.7	507.8	509.6
75°	584.8	559.4	544.0	527.5	544.0	559.4	584.8	608.8	631.6	648.9	647.2
72.5°	782.7	770.2	759.0	745.2	759.0	770.2	782.7	793.3	802.6	807.9	802.6
70°	1006.7	1005.1	1007.2	1006.6	1007.2	1005.1	1006.7	1005.6	1002.2	997.3	989.9
67.5°	1269.3	1269.7	1275.1	1277.5	1275.1	1269.7	1269.3	1264.1	1253.8	1240.5	1224.8
65°	1573.2	1576.9	1575.5	1567.9	1575.5	1576.9	1573.2	1563.2	1547.1	1527.0	1502.7
62.5°	1920.9	1931.3	1937.1	1935.7	1937.1	1931.3	1920.9	1902.8	1877.5	1845.6	1808.6
60°	2289.4	2305.7	2313.9	2313.1	2313.9	2305.7	2289.4	2264.1	2230.3	2188.5	2138.0
57.5°	2688.0	2709.0	2713.9	2705.1	2713.9	2709.0	2688.0	2655.9	2612.8	2561.5	2499.0
55°	3127.6	3154.5	3164.9	3160.0	3164.9	3154.5	3127.6	3087.3	3033.8	2970.8	2895.6
52.5°	3592.6	3621.6	3632.0	3624.6	3632.0	3621.6	3592.6	3547.4	3485.8	3408.6	3318.5
50°	4075.5	4110.7	4124.9	4118.1	4124.9	4110.7	4075.5	4023.1	3951.7	3860.9	3756.1
47.5°	4588.2	4635.0	4653.2	4640.8	4653.2	4635.0	4588.2	4522.1	4437.8	4331.1	4200.4
45°	5127.5	5176.0	5194.9	5182.8	5194.9	5176.0	5127.5	5053.8	4955.2	4837.7	4703.5
42.5°	5676.5	5739.6	5766.3	5744.1	5766.3	5739.6	5676.5	5590.8	5478.7	5345.1	5192.2
40°	6235.2	6303.7	6335.3	6320.0	6335.3	6303.7	6235.2	6136.6	6004.4	5845.8	5673.3
37.5°	6808.3	6876.4	6909.9	6910.4	6909.9	6876.4	6808.3	6702.4	6555.7	6375.0	6180.3
35°	7383.5	7466.0	7512.7	7510.4	7512.7	7466.0	7383.5	7267.2	7117.1	6934.1	6704.6
32.5°	7966.7	8056.0	8103.8	8110.5	8103.8	8056.0	7966.7	7830.3	7657.7	7456.5	7220.5
30°	8549.0	8647.2	8702.5	8725.1	8702.5	8647.2	8549.0	8397.7	8204.1	7984.1	7730.3
27.5°	9113.6	9234.5	9317.9	9325.1	9317.9	9234.5	9113.6	8959.0	8754.9	8515.7	8238.7
25°	9660.5	9783.5	9869.0	9886.5	9869.0	9783.5	9660.5	9506.5	9296.8	9034.3	8738.4
22.5°	10199.5	10328.1	10407.0	10438.1	10407.0	10328.1	10199.5	10027.0	9794.9	9520.5	9206.9
20°	10714.0	10853.4	10937.1	10970.4	10937.1	10853.4	10714.0	10524.5	10268.6	9976.5	9644.7
17.5°	11179.5	11326.8	11430.2	11459.2	11430.2	11326.8	11179.5	10978.9	10710.9	10400.7	10042.8
15°	11589.1	11728.8	11827.0	11865.7	11827.0	11728.8	11589.1	11392.3	11120.6	10785.1	10387.6
12.5°	11922.5	12047.5	12124.4	12160.9	12124.4	12047.5	11922.5	11734.8	11485.0	11108.1	10690.6
10°	12183.1	12308.4	12381.8	12431.9	12381.8	12308.4	12183.1	12008.3	11729.4	11391.9	10981.7
7.5°	12409.1	12537.6	12627.4	12698.0	12627.4	12537.6	12409.1	12173.3	11924.5	11606.5	11192.4
5°	12534.0	12748.4	12780.6	12828.7	12780.6	12748.4	12534.0	12320.3	12049.0	11725.5	11321.2
2.5°	12629.2	12781.2	12872.7	12862.6	12872.7	12781.2	12629.2	12377.8	12118.0	11821.6	11430.1
0°	12698.0	12833.5	12867.4	12911.0	12867.4	12833.5	12698.0	12446.4	12175.4	11880.2	11473.7
-2.5°	12629.2	12781.2	12872.7	12862.6	12872.7	12781.2	12629.2	12377.8	12118.0	11821.6	11430.1
-5°	12534.0	12748.4	12780.6	12828.7	12780.6	12748.4	12534.0	12320.3	12049.0	11725.5	11321.2
-7.5°	12409.1	12537.6	12627.4	12698.0	12627.4	12537.6	12409.1	12173.3	11924.5	11606.5	11192.4
-10°	12183.1	12308.4	12381.8	12431.9	12381.8	12308.4	12183.1	12008.3	11729.4	11391.9	10981.7
-12.5°	11922.5	12047.5	12124.4	12160.9	12124.4	12047.5	11922.5	11734.8	11485.0	11108.1	10690.6
-15°	11589.1	11728.8	11827.0	11865.7	11827.0	11728.8	11589.1	11392.3	11120.6	10785.1	10387.6
-17.5°	11179.5	11326.8	11430.2	11459.2	11430.2	11326.8	11179.5	10978.9	10710.9	10400.7	10042.8
-20°	10714.0	10853.4	10937.1	10970.4	10937.1	10853.4	10714.0	10524.5	10268.6	9976.5	9644.7



REPORT NUMBER: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	10199.5	10328.1	10407.0	10438.1	10407.0	10328.1	10199.5	10027.0	9794.9	9520.5	9206.9
-25°	9660.5	9783.5	9869.0	9886.5	9869.0	9783.5	9660.5	9506.5	9296.8	9034.3	8738.4
-27.5°	9113.6	9234.5	9317.9	9325.1	9317.9	9234.5	9113.6	8959.0	8754.9	8515.7	8238.7
-30°	8549.0	8647.2	8702.5	8725.1	8702.5	8647.2	8549.0	8397.7	8204.1	7984.1	7730.3
-32.5°	7966.7	8056.0	8103.8	8110.5	8103.8	8056.0	7966.7	7830.3	7657.7	7456.5	7220.5
-35°	7383.5	7466.0	7512.7	7510.4	7512.7	7466.0	7383.5	7267.2	7117.1	6934.1	6704.6
-37.5°	6808.3	6876.4	6909.9	6910.4	6909.9	6876.4	6808.3	6702.4	6555.7	6375.0	6180.3
-40°	6235.2	6303.7	6335.3	6320.0	6335.3	6303.7	6235.2	6136.6	6004.4	5845.8	5673.3
-42.5°	5676.5	5739.6	5766.3	5744.1	5766.3	5739.6	5676.5	5590.8	5478.7	5345.1	5192.2
-45°	5127.5	5176.0	5194.9	5182.8	5194.9	5176.0	5127.5	5053.8	4955.2	4837.7	4703.5
-47.5°	4588.2	4635.0	4653.2	4640.8	4653.2	4635.0	4588.2	4522.1	4437.8	4331.1	4200.4
-50°	4075.5	4110.7	4124.9	4118.1	4124.9	4110.7	4075.5	4023.1	3951.7	3860.9	3756.1
-52.5°	3592.6	3621.6	3632.0	3624.6	3632.0	3621.6	3592.6	3547.4	3485.8	3408.6	3318.5
-55°	3127.6	3154.5	3164.9	3160.0	3164.9	3154.5	3127.6	3087.3	3033.8	2970.8	2895.6
-57.5°	2688.0	2709.0	2713.9	2705.1	2713.9	2709.0	2688.0	2655.9	2612.8	2561.5	2499.0
-60°	2289.4	2305.7	2313.9	2313.1	2313.9	2305.7	2289.4	2264.1	2230.3	2188.5	2138.0
-62.5°	1920.9	1931.3	1937.1	1935.7	1937.1	1931.3	1920.9	1902.8	1877.5	1845.6	1808.6
-65°	1573.2	1576.9	1575.5	1567.9	1575.5	1576.9	1573.2	1563.2	1547.1	1527.0	1502.7
-67.5°	1269.3	1269.7	1275.1	1277.5	1275.1	1269.7	1269.3	1264.1	1253.8	1240.5	1224.8
-70°	1006.7	1005.1	1007.2	1006.6	1007.2	1005.1	1006.7	1005.6	1002.2	997.3	989.9
-72.5°	782.7	770.2	759.0	745.2	759.0	770.2	782.7	793.3	802.6	807.9	802.6
-75°	584.8	559.4	544.0	527.5	544.0	559.4	584.8	608.8	631.6	648.9	647.2
-77.5°	423.5	391.1	377.2	362.9	377.2	391.1	423.5	454.4	483.7	507.8	509.6
-80°	285.4	255.8	244.2	232.3	244.2	255.8	285.4	313.7	340.5	364.2	370.6
-82.5°	171.3	149.5	142.6	135.5	142.6	149.5	171.3	192.3	212.3	230.4	232.2
-85°	84.8	72.3	67.7	62.9	67.7	72.3	84.8	96.9	108.3	118.5	114.8
-87.5°	15.6	14.4	14.5	14.5	14.5	14.4	15.6	16.7	17.7	18.7	18.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	17.9	17.6	17.2	16.8	16.4	15.9	15.4	14.9	14.3	13.7
85°	110.8	106.5	101.9	97.0	91.9	86.6	80.8	70.9	61.6	53.0	45.6
82.5°	232.7	231.6	228.3	215.1	201.9	188.6	174.5	153.7	133.2	113.3	95.9
80°	375.1	377.6	375.1	353.2	331.0	308.7	285.0	254.4	223.6	194.2	172.2
77.5°	510.7	511.3	507.2	485.4	461.5	435.3	405.4	368.8	332.0	294.9	266.6
75°	644.0	639.5	630.3	610.3	586.3	558.2	528.9	496.7	459.1	415.8	378.7
72.5°	794.9	784.6	770.4	750.7	727.4	702.6	672.2	636.5	597.2	554.0	514.8
70°	978.1	962.0	940.6	913.9	887.6	860.1	827.5	788.4	742.5	694.8	651.2
67.5°	1204.5	1179.7	1149.4	1117.1	1084.5	1046.3	1002.5	954.7	907.3	854.4	794.6
65°	1472.4	1436.4	1392.5	1350.8	1305.2	1255.6	1199.7	1144.2	1086.2	1022.7	946.8
62.5°	1766.9	1721.1	1661.5	1601.0	1539.2	1475.5	1407.0	1338.8	1269.5	1194.6	1109.2
60°	2079.0	2010.9	1942.3	1867.2	1785.7	1700.2	1622.3	1539.5	1451.9	1367.1	1273.4
57.5°	2425.0	2341.2	2251.6	2155.9	2054.6	1954.7	1853.8	1749.6	1650.6	1547.2	1441.2
55°	2808.6	2709.6	2597.2	2473.7	2345.9	2230.1	2103.9	1977.5	1858.3	1732.8	1616.0
52.5°	3217.2	3098.7	2968.3	2828.1	2682.7	2532.1	2378.8	2233.6	2078.4	1936.4	1795.2
50°	3638.5	3502.7	3352.4	3191.3	3029.6	2855.2	2679.7	2505.2	2329.2	2155.1	1985.9
47.5°	4066.4	3919.3	3752.3	3574.0	3388.9	3194.1	2994.4	2784.5	2589.9	2387.8	2195.7
45°	4536.7	4355.2	4168.0	3971.7	3760.0	3545.1	3321.1	3091.3	2857.2	2635.0	2409.6
42.5°	5009.8	4805.6	4589.1	4373.3	4142.3	3901.7	3651.8	3398.6	3141.3	2885.1	2638.8
40°	5480.9	5260.2	5024.1	4777.3	4525.5	4260.4	3986.8	3705.1	3425.7	3144.0	2865.4
37.5°	5962.9	5724.3	5468.6	5196.9	4914.8	4621.1	4320.1	4015.2	3707.0	3403.9	3101.7
35°	6457.3	6196.1	5913.9	5617.1	5306.6	4985.1	4654.9	4321.0	3989.5	3661.6	3334.2
32.5°	6947.2	6664.2	6359.9	6035.1	5693.4	5343.4	4988.4	4627.8	4265.0	3914.9	3566.2
30°	7441.3	7127.9	6798.2	6447.3	6076.8	5695.7	5311.2	4929.1	4542.5	4157.2	3788.3
27.5°	7925.3	7583.4	7225.1	6845.7	6449.9	6041.0	5627.9	5220.1	4807.7	4398.0	4000.3
25°	8396.4	8027.2	7632.0	7226.8	6807.0	6371.2	5927.2	5495.8	5065.1	4626.7	4190.6
22.5°	8849.8	8445.6	8019.7	7586.2	7144.6	6686.7	6213.1	5748.2	5302.6	4831.8	4376.0
20°	9267.9	8833.9	8379.1	7922.5	7455.5	6987.0	6479.5	5985.0	5505.7	5022.3	4544.1
17.5°	9638.8	9197.9	8720.8	8239.6	7742.4	7249.1	6728.5	6200.5	5692.6	5191.6	4692.1
15°	9965.8	9525.3	9042.1	8534.6	8003.8	7465.1	6939.4	6390.9	5862.9	5341.2	4828.9
12.5°	10262.7	9801.5	9319.0	8782.3	8218.8	7656.8	7110.1	6557.7	6014.4	5478.1	4951.9
10°	10529.2	10027.8	9517.3	8973.4	8398.7	7818.5	7255.6	6698.1	6143.3	5595.4	5053.4
7.5°	10711.9	10195.7	9668.2	9126.1	8550.5	7961.2	7381.4	6810.8	6243.8	5688.7	5132.5
5°	10846.7	10328.2	9799.0	9249.4	8668.5	8067.7	7474.1	6892.5	6315.4	5757.1	5188.9
2.5°	10950.3	10418.8	9888.3	9326.4	8744.7	8139.7	7540.5	6954.0	6372.2	5807.1	5238.8
0°	11023.7	10452.6	9939.7	9388.0	8792.8	8183.1	7583.0	6992.6	6407.1	5831.2	5265.0
-2.5°	10950.3	10418.8	9888.3	9326.4	8744.7	8139.7	7540.5	6954.0	6372.2	5807.1	5238.8
-5°	10846.7	10328.2	9799.0	9249.4	8668.5	8067.7	7474.1	6892.5	6315.4	5757.1	5188.9
-7.5°	10711.9	10195.7	9668.2	9126.1	8550.5	7961.2	7381.4	6810.8	6243.8	5688.7	5132.5
-10°	10529.2	10027.8	9517.3	8973.4	8398.7	7818.5	7255.6	6698.1	6143.3	5595.4	5053.4
-12.5°	10262.7	9801.5	9319.0	8782.3	8218.8	7656.8	7110.1	6557.7	6014.4	5478.1	4951.9
-15°	9965.8	9525.3	9042.1	8534.6	8003.8	7465.1	6939.4	6390.9	5862.9	5341.2	4828.9
-17.5°	9638.8	9197.9	8720.8	8239.6	7742.4	7249.1	6728.5	6200.5	5692.6	5191.6	4692.1
-20°	9267.9	8833.9	8379.1	7922.5	7455.5	6987.0	6479.5	5985.0	5505.7	5022.3	4544.1



REPORT NUMBER: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	8849.8	8445.6	8019.7	7586.2	7144.6	6686.7	6213.1	5748.2	5302.6	4831.8	4376.0
-25°	8396.4	8027.2	7632.0	7226.8	6807.0	6371.2	5927.2	5495.8	5065.1	4626.7	4190.6
-27.5°	7925.3	7583.4	7225.1	6845.7	6449.9	6041.0	5627.9	5220.1	4807.7	4398.0	4000.3
-30°	7441.3	7127.9	6798.2	6447.3	6076.8	5695.7	5311.2	4929.1	4542.5	4157.2	3788.3
-32.5°	6947.2	6664.2	6359.9	6035.1	5693.4	5343.4	4988.4	4627.8	4265.0	3914.9	3566.2
-35°	6457.3	6196.1	5913.9	5617.1	5306.6	4985.1	4654.9	4321.0	3989.5	3661.6	3334.2
-37.5°	5962.9	5724.3	5468.6	5196.9	4914.8	4621.1	4320.1	4015.2	3707.0	3403.9	3101.7
-40°	5480.9	5260.2	5024.1	4777.3	4525.5	4260.4	3986.8	3705.1	3425.7	3144.0	2865.4
-42.5°	5009.8	4805.6	4589.1	4373.3	4142.3	3901.7	3651.8	3398.6	3141.3	2885.1	2638.8
-45°	4536.7	4355.2	4168.0	3971.7	3760.0	3545.1	3321.1	3091.3	2857.2	2635.0	2409.6
-47.5°	4066.4	3919.3	3752.3	3574.0	3388.9	3194.1	2994.4	2784.5	2589.9	2387.8	2195.7
-50°	3638.5	3502.7	3352.4	3191.3	3029.6	2855.2	2679.7	2505.2	2329.2	2155.1	1985.9
-52.5°	3217.2	3098.7	2968.3	2828.1	2682.7	2532.1	2378.8	2233.6	2078.4	1936.4	1795.2
-55°	2808.6	2709.6	2597.2	2473.7	2345.9	2230.1	2103.9	1977.5	1858.3	1732.8	1616.0
-57.5°	2425.0	2341.2	2251.6	2155.9	2054.6	1954.7	1853.8	1749.6	1650.6	1547.2	1441.2
-60°	2079.0	2010.9	1942.3	1867.2	1785.7	1700.2	1622.3	1539.5	1451.9	1367.1	1273.4
-62.5°	1766.9	1721.1	1661.5	1601.0	1539.2	1475.5	1407.0	1338.8	1269.5	1194.6	1109.2
-65°	1472.4	1436.4	1392.5	1350.8	1305.2	1255.6	1199.7	1144.2	1086.2	1022.7	946.8
-67.5°	1204.5	1179.7	1149.4	1117.1	1084.5	1046.3	1002.5	954.7	907.3	854.4	794.6
-70°	978.1	962.0	940.6	913.9	887.6	860.1	827.5	788.4	742.5	694.8	651.2
-72.5°	794.9	784.6	770.4	750.7	727.4	702.6	672.2	636.5	597.2	554.0	514.8
-75°	644.0	639.5	630.3	610.3	586.3	558.2	528.9	496.7	459.1	415.8	378.7
-77.5°	510.7	511.3	507.2	485.4	461.5	435.3	405.4	368.8	332.0	294.9	266.6
-80°	375.1	377.6	375.1	353.2	331.0	308.7	285.0	254.4	223.6	194.2	172.2
-82.5°	232.7	231.6	228.3	215.1	201.9	188.6	174.5	153.7	133.2	113.3	95.9
-85°	110.8	106.5	101.9	97.0	91.9	86.6	80.8	70.9	61.6	53.0	45.6
-87.5°	18.2	17.9	17.6	17.2	16.8	16.4	15.9	15.4	14.9	14.3	13.7
-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: P627431 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	14.0	14.0	13.9	12.3	10.9	9.5	8.2	7.4	6.6	5.8
85°	45.8	44.7	42.3	38.3	30.2	21.7	19.0	16.4	14.8	13.3	11.7
82.5°	95.6	96.5	96.5	93.6	82.6	71.0	58.9	46.3	34.3	21.8	17.5
80°	172.5	170.7	166.6	158.8	140.7	120.2	104.9	88.9	73.4	57.1	40.2
77.5°	260.9	253.4	244.3	233.9	214.8	192.2	166.3	137.0	112.2	92.2	71.3
75°	359.6	347.7	334.9	317.7	293.1	264.8	236.4	202.2	164.1	128.3	102.2
72.5°	483.4	454.7	429.0	404.8	378.1	346.6	310.3	266.2	220.0	176.4	135.5
70°	608.8	565.7	527.2	494.3	462.1	429.1	389.2	334.9	274.9	223.5	175.3
67.5°	736.1	685.2	633.7	584.4	543.8	504.9	466.4	403.3	334.4	269.6	214.3
65°	876.6	808.6	743.3	682.4	627.2	578.7	533.5	467.3	392.2	319.3	252.2
62.5°	1021.4	934.6	857.2	779.6	710.9	651.9	597.6	524.5	447.5	367.4	291.7
60°	1173.5	1074.8	971.9	881.3	797.1	722.4	656.6	580.9	499.2	413.7	331.0
57.5°	1333.8	1217.7	1102.1	987.5	886.4	796.8	714.1	634.5	550.1	459.4	367.6
55°	1496.1	1371.1	1234.3	1105.2	981.2	874.6	774.9	685.8	599.2	504.3	399.3
52.5°	1658.7	1521.3	1374.5	1225.3	1086.5	953.1	841.8	735.9	644.4	548.2	432.2
50°	1828.7	1671.2	1514.0	1352.7	1191.3	1045.2	906.3	793.2	688.2	589.8	463.4
47.5°	2005.6	1830.2	1655.2	1479.0	1305.9	1133.2	981.7	849.4	730.7	627.6	492.5
45°	2199.6	1994.4	1800.7	1610.2	1414.4	1228.4	1058.1	903.2	778.7	656.9	519.3
42.5°	2393.4	2167.7	1951.3	1739.5	1528.0	1322.9	1130.4	966.5	824.6	685.0	543.9
40°	2599.6	2341.7	2101.8	1871.9	1639.0	1412.8	1210.5	1028.2	867.7	714.1	567.2
37.5°	2800.0	2520.0	2256.4	1998.4	1747.7	1509.9	1287.5	1086.1	908.5	746.9	589.3
35°	3012.2	2699.1	2399.3	2125.7	1859.5	1602.0	1359.7	1144.4	955.6	778.8	610.1
32.5°	3217.2	2874.3	2552.7	2251.2	1966.4	1688.8	1433.9	1206.1	1000.8	809.8	629.5
30°	3418.7	3050.1	2699.8	2370.0	2069.9	1779.9	1508.3	1263.8	1044.0	839.7	649.0
27.5°	3604.3	3212.9	2840.6	2492.7	2171.6	1866.3	1578.6	1317.3	1085.0	870.5	671.7
25°	3777.4	3369.6	2979.6	2610.8	2266.0	1948.1	1643.3	1366.9	1126.8	902.6	692.7
22.5°	3939.7	3515.1	3105.5	2719.6	2353.5	2023.2	1706.4	1419.6	1166.3	932.2	711.9
20°	4087.2	3646.1	3218.2	2818.2	2438.6	2094.8	1767.1	1466.9	1201.6	959.0	729.3
17.5°	4220.1	3765.8	3325.9	2910.4	2517.8	2158.5	1821.0	1508.6	1232.6	982.9	744.5
15°	4343.5	3874.6	3421.0	2990.8	2586.4	2213.8	1868.0	1544.5	1259.1	1003.6	759.1
12.5°	4449.5	3968.0	3501.7	3059.2	2644.1	2260.7	1907.7	1574.6	1281.2	1022.4	772.8
10°	4536.8	4045.2	3567.6	3115.1	2690.8	2298.9	1939.9	1600.0	1301.9	1038.6	783.3
7.5°	4604.8	4105.6	3618.4	3158.2	2727.9	2330.8	1967.4	1621.9	1318.6	1051.1	790.7
5°	4656.3	4152.8	3662.6	3194.3	2762.0	2356.6	1987.4	1637.6	1330.7	1059.7	794.8
2.5°	4702.1	4188.1	3697.3	3217.7	2785.2	2373.4	1999.4	1647.1	1338.0	1064.2	795.8
0°	4727.9	4205.3	3716.5	3227.7	2797.1	2380.9	2003.4	1650.2	1340.5	1064.6	793.6
-2.5°	4702.1	4188.1	3697.3	3217.7	2785.2	2373.4	1999.4	1647.1	1338.0	1064.2	795.8
-5°	4656.3	4152.8	3662.6	3194.3	2762.0	2356.6	1987.4	1637.6	1330.7	1059.7	794.8
-7.5°	4604.8	4105.6	3618.4	3158.2	2727.9	2330.8	1967.4	1621.9	1318.6	1051.1	790.7
-10°	4536.8	4045.2	3567.6	3115.1	2690.8	2298.9	1939.9	1600.0	1301.9	1038.6	783.3
-12.5°	4449.5	3968.0	3501.7	3059.2	2644.1	2260.7	1907.7	1574.6	1281.2	1022.4	772.8
-15°	4343.5	3874.6	3421.0	2990.8	2586.4	2213.8	1868.0	1544.5	1259.1	1003.6	759.1
-17.5°	4220.1	3765.8	3325.9	2910.4	2517.8	2158.5	1821.0	1508.6	1232.6	982.9	744.5
-20°	4087.2	3646.1	3218.2	2818.2	2438.6	2094.8	1767.1	1466.9	1201.6	959.0	729.3



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CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	3939.7	3515.1	3105.5	2719.6	2353.5	2023.2	1706.4	1419.6	1166.3	932.2	711.9
-25°	3777.4	3369.6	2979.6	2610.8	2266.0	1948.1	1643.3	1366.9	1126.8	902.6	692.7
-27.5°	3604.3	3212.9	2840.6	2492.7	2171.6	1866.3	1578.6	1317.3	1085.0	870.5	671.7
-30°	3418.7	3050.1	2699.8	2370.0	2069.9	1779.9	1508.3	1263.8	1044.0	839.7	649.0
-32.5°	3217.2	2874.3	2552.7	2251.2	1966.4	1688.8	1433.9	1206.1	1000.8	809.8	629.5
-35°	3012.2	2699.1	2399.3	2125.7	1859.5	1602.0	1359.7	1144.4	955.6	778.8	610.1
-37.5°	2800.0	2520.0	2256.4	1998.4	1747.7	1509.9	1287.5	1086.1	908.5	746.9	589.3
-40°	2599.6	2341.7	2101.8	1871.9	1639.0	1412.8	1210.5	1028.2	867.7	714.1	567.2
-42.5°	2393.4	2167.7	1951.3	1739.5	1528.0	1322.9	1130.4	966.5	824.6	685.0	543.9
-45°	2199.6	1994.4	1800.7	1610.2	1414.4	1228.4	1058.1	903.2	778.7	656.9	519.3
-47.5°	2005.6	1830.2	1655.2	1479.0	1305.9	1133.2	981.7	849.4	730.7	627.6	492.5
-50°	1828.7	1671.2	1514.0	1352.7	1191.3	1045.2	906.3	793.2	688.2	589.8	463.4
-52.5°	1658.7	1521.3	1374.5	1225.3	1086.5	953.1	841.8	735.9	644.4	548.2	432.2
-55°	1496.1	1371.1	1234.3	1105.2	981.2	874.6	774.9	685.8	599.2	504.3	399.3
-57.5°	1333.8	1217.7	1102.1	987.5	886.4	796.8	714.1	634.5	550.1	459.4	367.6
-60°	1173.5	1074.8	971.9	881.3	797.1	722.4	656.6	580.9	499.2	413.7	331.0
-62.5°	1021.4	934.6	857.2	779.6	710.9	651.9	597.6	524.5	447.5	367.4	291.7
-65°	876.6	808.6	743.3	682.4	627.2	578.7	533.5	467.3	392.2	319.3	252.2
-67.5°	736.1	685.2	633.7	584.4	543.8	504.9	466.4	403.3	334.4	269.6	214.3
-70°	608.8	565.7	527.2	494.3	462.1	429.1	389.2	334.9	274.9	223.5	175.3
-72.5°	483.4	454.7	429.0	404.8	378.1	346.6	310.3	266.2	220.0	176.4	135.5
-75°	359.6	347.7	334.9	317.7	293.1	264.8	236.4	202.2	164.1	128.3	102.2
-77.5°	260.9	253.4	244.3	233.9	214.8	192.2	166.3	137.0	112.2	92.2	71.3
-80°	172.5	170.7	166.6	158.8	140.7	120.2	104.9	88.9	73.4	57.1	40.2
-82.5°	95.6	96.5	96.5	93.6	82.6	71.0	58.9	46.3	34.3	21.8	17.5
-85°	45.8	44.7	42.3	38.3	30.2	21.7	19.0	16.4	14.8	13.3	11.7
-87.5°	13.9	14.0	14.0	13.9	12.3	10.9	9.5	8.2	7.4	6.6	5.8
-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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CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	4.2	3.4	2.5	1.7	0.7	0.0
85°	10.0	8.4	6.7	5.1	3.4	1.5	0.0
82.5°	15.0	12.6	10.1	7.6	5.0	2.2	0.0
80°	22.6	16.7	13.4	10.1	6.7	2.9	0.0
77.5°	49.2	26.2	16.7	12.6	8.3	3.7	0.0
75°	75.1	45.3	21.8	15.0	9.9	4.4	0.0
72.5°	100.2	63.8	34.7	17.5	11.5	5.1	0.0
70°	125.3	81.7	47.1	20.9	13.1	5.7	0.0
67.5°	155.5	98.8	59.1	28.6	14.5	6.4	0.0
65°	184.3	118.0	70.6	36.0	16.0	7.1	0.0
62.5°	211.7	139.0	81.4	43.1	17.4	7.7	0.0
60°	237.5	158.9	91.6	49.8	18.7	8.3	0.0
57.5°	264.6	177.6	105.2	56.1	22.5	8.9	0.0
55°	290.4	194.9	118.2	62.0	26.2	9.5	0.0
52.5°	314.2	211.4	130.3	67.4	29.7	10.0	0.0
50°	336.0	228.9	141.4	72.4	33.1	10.5	0.0
47.5°	356.5	244.9	151.5	77.5	36.3	11.0	0.0
45°	379.3	259.3	160.6	84.2	39.4	11.5	0.0
42.5°	400.1	272.2	168.7	90.3	42.3	11.9	0.0
40°	419.1	283.4	176.8	96.5	45.0	12.3	0.0
37.5°	436.0	292.9	184.8	102.7	47.6	12.7	0.0
35°	451.0	304.0	191.7	108.4	49.9	13.0	0.0
32.5°	464.8	315.1	197.5	113.7	52.1	13.3	0.0
30°	479.2	324.5	202.1	118.6	54.1	13.6	0.0
27.5°	492.1	332.3	209.0	122.9	55.9	13.9	0.0
25°	503.4	338.5	215.5	126.9	57.5	14.1	0.0
22.5°	513.2	344.8	221.2	130.3	59.0	14.3	0.0
20°	521.2	353.4	226.1	133.3	60.2	14.4	0.0
17.5°	531.2	360.4	230.2	135.8	61.2	14.5	0.0
15°	541.7	365.8	233.6	137.8	62.0	14.6	0.0
12.5°	550.2	369.7	236.1	139.4	62.7	14.7	0.0
10°	556.6	372.2	237.9	140.5	63.1	14.7	0.0
7.5°	561.0	373.1	238.8	141.2	63.3	14.7	0.0
5°	563.3	372.7	239.0	141.3	63.4	14.7	0.0
2.5°	563.4	370.9	238.4	141.0	63.2	14.6	0.0
0°	561.3	367.8	237.1	140.3	62.9	14.5	0.0
-2.5°	563.4	370.9	238.4	141.0	63.2	14.6	0.0
-5°	563.3	372.7	239.0	141.3	63.4	14.7	0.0
-7.5°	561.0	373.1	238.8	141.2	63.3	14.7	0.0
-10°	556.6	372.2	237.9	140.5	63.1	14.7	0.0
-12.5°	550.2	369.7	236.1	139.4	62.7	14.7	0.0
-15°	541.7	365.8	233.6	137.8	62.0	14.6	0.0
-17.5°	531.2	360.4	230.2	135.8	61.2	14.5	0.0
-20°	521.2	353.4	226.1	133.3	60.2	14.4	0.0

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CATALOG NUMBER: GFLD-SA4D-722-U-VWR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	513.2	344.8	221.2	130.3	59.0	14.3	0.0
-25°	503.4	338.5	215.5	126.9	57.5	14.1	0.0
-27.5°	492.1	332.3	209.0	122.9	55.9	13.9	0.0
-30°	479.2	324.5	202.1	118.6	54.1	13.6	0.0
-32.5°	464.8	315.1	197.5	113.7	52.1	13.3	0.0
-35°	451.0	304.0	191.7	108.4	49.9	13.0	0.0
-37.5°	436.0	292.9	184.8	102.7	47.6	12.7	0.0
-40°	419.1	283.4	176.8	96.5	45.0	12.3	0.0
-42.5°	400.1	272.2	168.7	90.3	42.3	11.9	0.0
-45°	379.3	259.3	160.6	84.2	39.4	11.5	0.0
-47.5°	356.5	244.9	151.5	77.5	36.3	11.0	0.0
-50°	336.0	228.9	141.4	72.4	33.1	10.5	0.0
-52.5°	314.2	211.4	130.3	67.4	29.7	10.0	0.0
-55°	290.4	194.9	118.2	62.0	26.2	9.5	0.0
-57.5°	264.6	177.6	105.2	56.1	22.5	8.9	0.0
-60°	237.5	158.9	91.6	49.8	18.7	8.3	0.0
-62.5°	211.7	139.0	81.4	43.1	17.4	7.7	0.0
-65°	184.3	118.0	70.6	36.0	16.0	7.1	0.0
-67.5°	155.5	98.8	59.1	28.6	14.5	6.4	0.0
-70°	125.3	81.7	47.1	20.9	13.1	5.7	0.0
-72.5°	100.2	63.8	34.7	17.5	11.5	5.1	0.0
-75°	75.1	45.3	21.8	15.0	9.9	4.4	0.0
-77.5°	49.2	26.2	16.7	12.6	8.3	3.7	0.0
-80°	22.6	16.7	13.4	10.1	6.7	2.9	0.0
-82.5°	15.0	12.6	10.1	7.6	5.0	2.2	0.0
-85°	10.0	8.4	6.7	5.1	3.4	1.5	0.0
-87.5°	5.0	4.2	3.4	2.5	1.7	0.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)