

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: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4B-730-U-VWR-VSR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/7/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4B-730-U-VWR-VSR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, VERY WIDE SYMMETRICAL ROUND N7 WITH VISOR  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

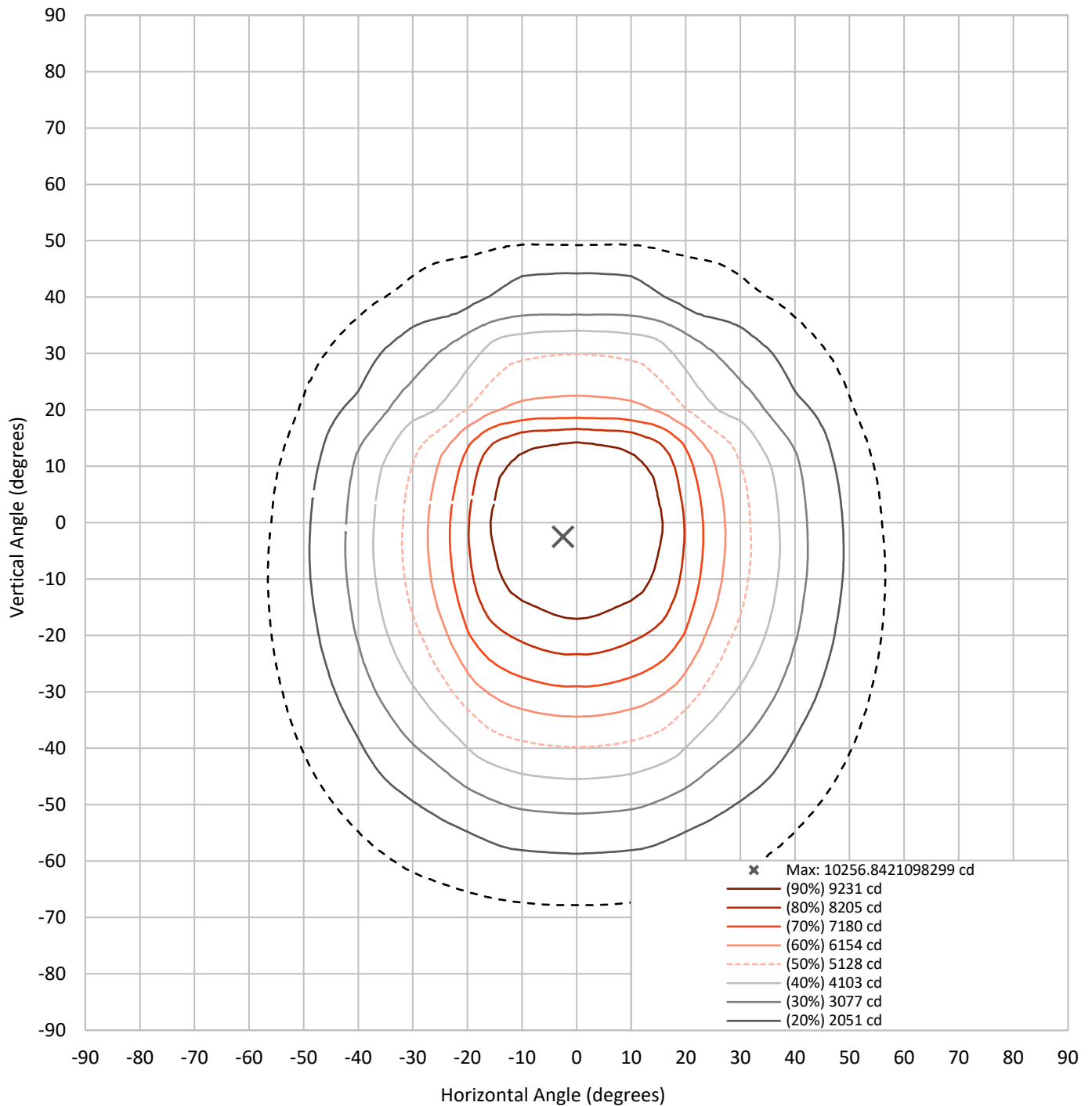
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	13688.1 lumens	Max Intensity:	10256.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	105.7 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	63.9°H x 69.6°V	Field Angle (10%):	112.5°H x 117.1°V
Beam Lumens:	7919.5 lumens	Field Lumens:	12989.1 lumens
Beam Efficiency:	57.9%	Field Efficiency:	94.9%
Input Watts (W):	129.5		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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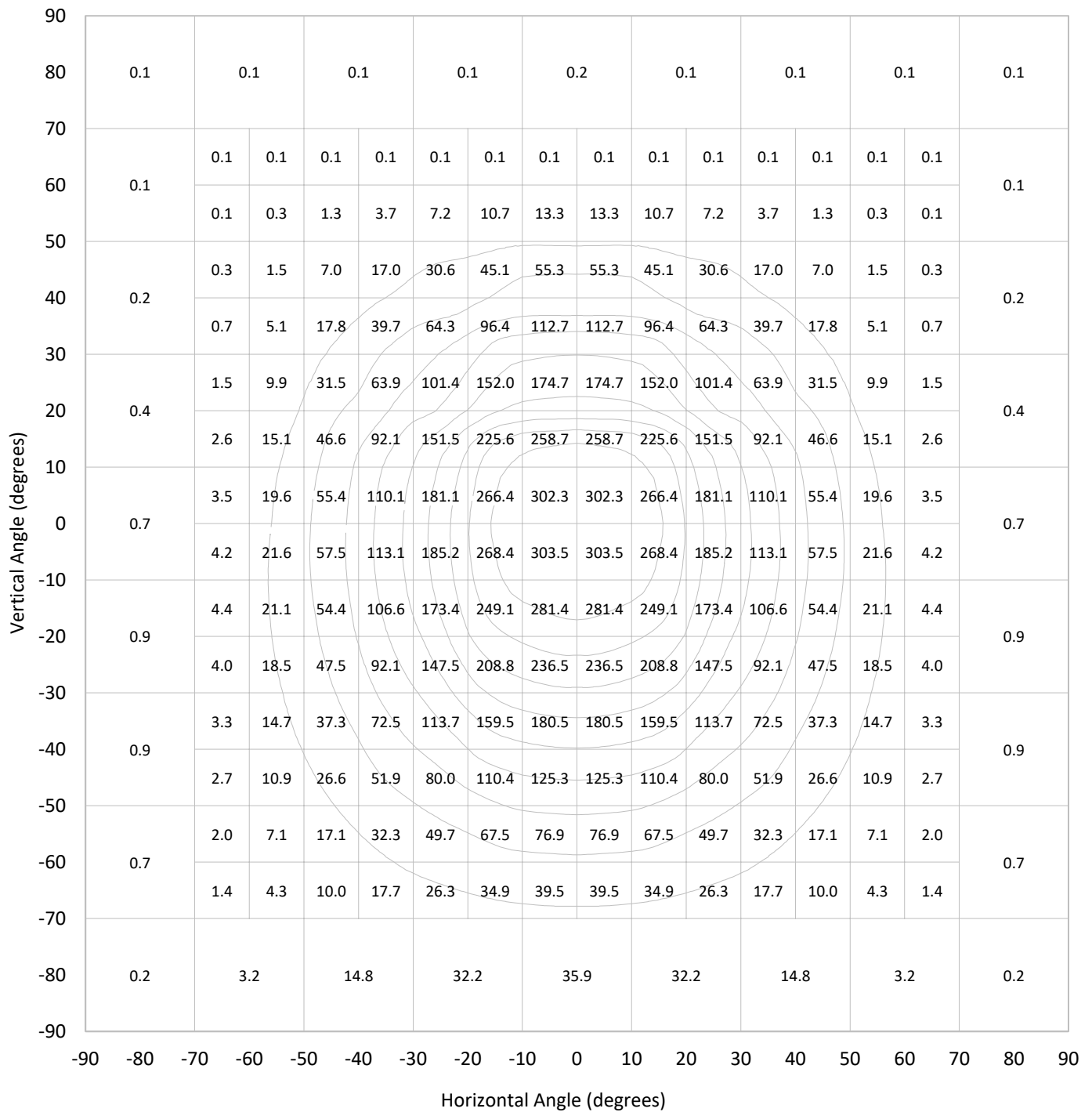
### Iso-Candela Plot





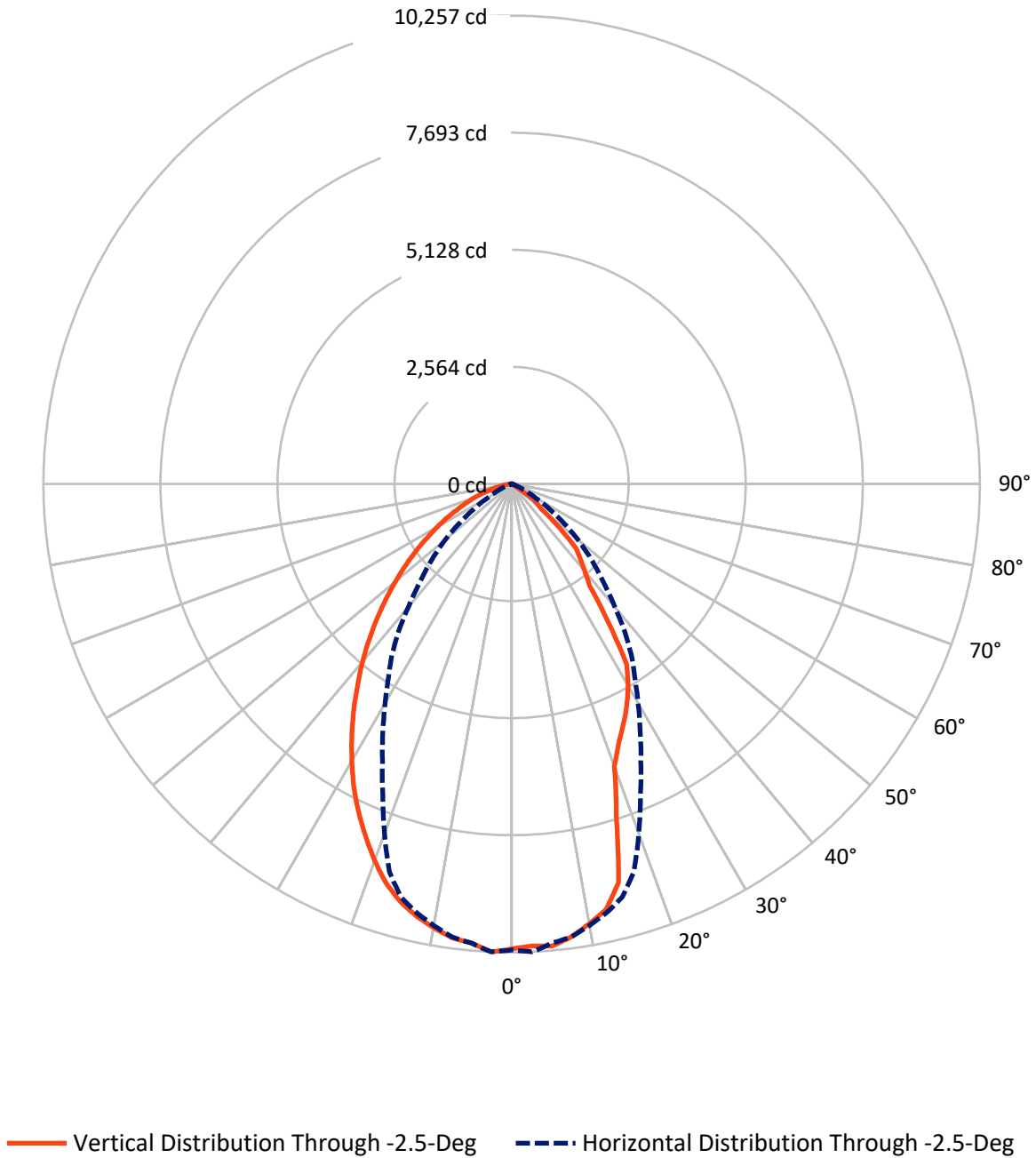
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### Lumen Table



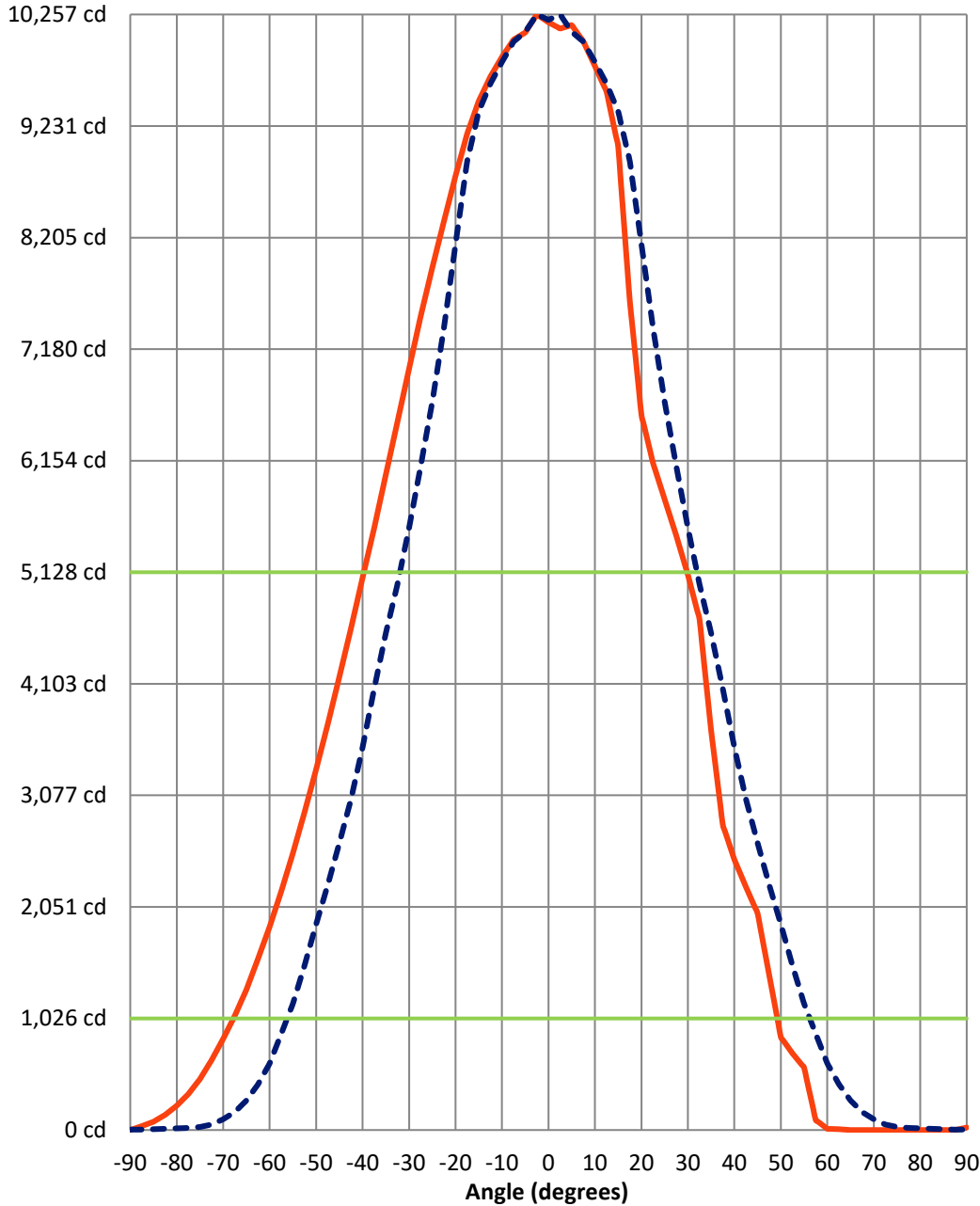
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 63.9°  
 V Angle: 69.6°  
 Lumens: 7919.5  
 Efficiency: 57.9%

**Field:**  
 H Angle: 112.5°  
 V Angle: 117.1°  
 Lumens: 12989.1  
 Efficiency: 94.9%

**Spill:**  
 Lumens: 699  
 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°	3.8	3.8	3.8	4.8	5.8	6.7	7.7	8.7	9.6	10.6	11.5
87.5°	3.8	3.8	3.8	3.7	3.5	3.2	2.8	2.0	1.3	0.6	0.0
85°	3.8	3.8	3.8	3.6	3.1	2.6	1.8	1.1	0.6	0.2	0.0
82.5°	3.8	3.8	3.8	3.4	2.8	2.0	0.9	0.3	0.1	0.6	1.0
80°	3.8	3.8	3.8	3.3	2.5	1.4	0.2	0.7	1.4	2.0	2.6
77.5°	3.8	3.8	3.8	3.2	2.2	1.3	1.2	1.9	2.7	3.4	3.4
75°	3.8	3.8	3.8	3.1	2.1	1.9	2.1	3.0	3.7	3.1	2.0
72.5°	3.8	3.8	3.8	3.1	2.4	2.5	3.0	3.8	3.2	2.2	0.7
70°	3.8	3.8	3.8	3.0	2.7	3.0	3.8	3.6	2.8	1.5	1.7
67.5°	3.8	3.8	3.8	3.2	3.0	3.6	3.9	3.5	2.5	3.0	3.4
65°	3.8	3.8	3.8	3.3	3.3	3.9	4.1	3.5	3.8	4.5	4.7
62.5°	3.8	3.8	3.8	3.4	3.6	4.2	4.3	4.3	5.2	5.8	5.3
60°	3.8	3.8	3.8	3.5	3.8	4.6	4.5	5.5	6.5	6.7	6.0
57.5°	3.8	3.8	3.8	3.6	4.2	5.0	5.4	6.6	7.6	7.7	7.5
55°	3.8	3.8	3.9	3.7	4.6	5.4	6.4	7.8	8.8	8.9	9.3
52.5°	3.8	3.8	4.0	3.7	5.0	5.9	7.4	8.9	10.0	10.5	11.1
50°	3.8	3.8	4.1	3.8	5.4	6.7	8.3	10.0	11.4	12.2	12.9
47.5°	3.8	3.8	4.2	3.9	5.9	7.4	9.3	11.0	12.8	13.8	14.7
45°	3.8	3.8	4.3	4.2	6.3	8.2	10.2	12.1	14.1	15.4	16.5
42.5°	3.8	3.8	4.4	4.6	6.8	8.9	11.0	13.2	15.5	16.9	20.0
40°	3.8	3.8	4.5	5.1	7.3	9.6	11.9	14.5	17.1	18.5	23.8
37.5°	3.8	3.8	4.7	5.6	7.9	10.3	12.7	15.9	18.6	21.0	27.8
35°	3.8	3.8	4.9	6.1	8.4	11.0	13.5	17.3	20.3	25.9	35.4
32.5°	3.8	3.8	5.0	6.6	8.9	11.6	14.4	18.7	22.1	31.5	50.5
30°	3.8	3.8	5.2	7.1	9.4	12.2	15.5	20.2	23.9	38.0	65.2
27.5°	3.8	3.8	5.4	7.5	10.0	12.8	16.7	21.7	27.1	45.2	79.5
25°	3.8	3.8	5.6	8.0	10.6	13.4	17.8	23.2	32.6	55.6	93.4
22.5°	3.8	3.8	5.8	8.4	11.2	13.9	18.9	24.7	38.4	67.2	111.9
20°	3.8	3.8	6.1	8.8	11.8	14.6	20.0	26.2	44.5	78.1	130.2
17.5°	3.8	3.8	6.3	9.2	12.3	15.3	21.1	27.6	50.7	88.4	148.2
15°	3.8	3.8	6.5	9.6	12.8	15.9	22.2	29.6	56.9	98.1	165.7
12.5°	3.8	3.8	6.7	10.0	13.3	16.6	23.2	32.2	63.8	107.0	182.4
10°	3.8	3.8	6.9	10.3	13.7	17.1	24.1	35.0	71.1	117.4	199.2
7.5°	3.8	3.8	7.1	10.7	14.2	17.7	24.9	37.8	78.0	127.6	216.9
5°	3.8	3.8	7.3	11.0	14.6	18.2	25.6	40.7	84.5	137.0	233.2
2.5°	3.8	3.8	7.5	11.2	15.0	18.7	26.2	43.4	90.4	145.6	247.7
0°	3.8	3.8	7.7	11.5	15.3	19.1	26.8	45.9	95.7	153.2	260.4
-2.5°	3.8	3.8	7.7	11.5	15.3	19.1	26.8	45.9	95.7	153.2	260.4
-5°	3.8	3.8	7.7	11.5	15.3	19.1	26.8	45.9	95.7	153.2	260.4
-7.5°	3.8	3.8	7.6	11.4	16.1	20.2	30.8	58.6	105.0	184.5	288.4
-10°	3.8	3.8	7.6	11.3	16.3	20.5	31.8	61.7	106.7	190.7	293.8
-12.5°	3.8	3.8	7.5	11.2	16.4	20.8	32.6	64.0	108.0	194.0	298.0
-15°	3.8	3.8	7.4	11.1	16.5	21.0	33.1	65.4	110.2	193.7	299.5
-17.5°	3.8	3.8	7.3	11.0	16.5	21.2	33.2	66.8	113.5	191.7	297.6
-20°	3.8	3.8	7.2	10.8	16.4	21.3	34.1	68.2	115.7	188.2	292.1

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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°	3.8	3.8	7.1	10.6	16.2	21.4	36.3	68.8	116.6	183.2	282.9
-25°	3.8	3.8	7.0	10.4	15.9	22.8	38.1	68.6	116.3	176.7	269.6
-27.5°	3.8	3.8	6.8	10.2	15.5	24.6	39.5	67.6	114.6	171.1	259.9
-30°	3.8	3.8	6.7	10.0	15.1	26.1	40.4	65.7	112.5	168.7	249.1
-32.5°	3.8	3.8	6.5	9.7	15.7	27.3	40.9	65.8	109.8	164.5	236.8
-35°	3.8	3.8	6.3	9.4	16.1	28.3	42.0	66.2	105.9	158.5	223.1
-37.5°	3.8	3.8	6.1	9.1	16.4	29.0	43.1	65.9	101.0	150.9	217.0
-40°	3.8	3.8	5.9	8.8	16.5	29.2	43.8	65.0	95.1	143.5	210.2
-42.5°	3.8	3.8	5.6	8.6	16.6	29.2	44.0	63.5	91.7	137.5	199.8
-45°	3.8	3.8	5.4	8.7	16.7	29.0	43.8	62.2	89.2	130.2	186.7
-47.5°	3.8	3.8	5.2	8.6	16.6	28.6	43.1	61.3	86.0	121.4	176.4
-50°	3.8	3.8	4.9	8.5	16.3	27.9	42.2	59.8	83.5	118.3	164.1
-52.5°	3.8	3.8	4.6	8.4	15.8	27.1	41.1	57.6	81.3	114.1	150.9
-55°	3.8	3.8	4.4	8.1	15.1	25.9	39.6	55.0	78.6	108.9	144.6
-57.5°	3.8	3.8	4.1	7.8	14.3	24.5	37.8	52.7	74.9	103.5	137.2
-60°	3.8	3.8	3.8	7.5	13.3	22.9	35.8	50.1	70.2	97.0	128.6
-62.5°	3.8	3.8	3.8	7.1	12.6	20.9	32.9	46.7	64.4	89.4	118.6
-65°	3.8	3.8	3.8	6.6	11.7	18.8	29.7	42.3	57.4	79.3	107.2
-67.5°	3.8	3.8	3.8	6.1	10.8	16.9	26.1	37.2	49.2	67.5	92.1
-70°	3.8	3.8	3.8	5.5	9.8	15.3	22.2	31.7	42.2	54.5	74.5
-72.5°	3.8	3.8	3.8	5.4	8.8	13.7	19.6	25.9	34.8	45.2	57.0
-75°	3.8	3.8	3.8	5.3	7.6	11.9	17.1	21.8	27.1	35.6	45.3
-77.5°	3.8	3.8	3.8	5.3	7.2	10.0	14.4	18.4	22.5	26.9	33.2
-80°	3.8	3.8	3.8	5.2	7.0	9.0	11.7	14.8	18.1	21.7	25.5
-82.5°	3.8	3.8	3.8	5.1	6.7	8.5	10.6	12.0	13.7	16.4	19.3
-85°	3.8	3.8	3.8	5.0	6.4	7.9	9.6	10.9	12.2	13.4	14.7
-87.5°	3.8	3.8	3.8	4.9	6.1	7.3	8.7	9.8	10.9	12.0	13.1
-90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	1.9	0.9	0.0





REPORT NUMBER: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-730-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	12.5	13.4	14.4
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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	1.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.5	2.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.8	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.6	1.1	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2.2	2.3	1.6	0.6	0.0	0.2	0.6	0.4	0.0	0.2	0.5
67.5°	3.5	2.6	1.7	1.1	1.4	1.9	1.8	1.9	2.1	2.3	1.9
65°	3.7	2.8	2.9	3.3	3.7	4.1	4.5	4.7	4.0	3.4	3.5
62.5°	4.0	4.3	5.0	5.6	6.2	6.7	6.7	5.9	4.5	5.7	6.5
60°	5.7	6.3	7.1	7.8	8.6	9.0	8.6	8.7	9.7	11.2	21.5
57.5°	7.7	8.2	9.2	10.4	11.4	11.6	11.9	12.9	30.3	49.6	54.8
55°	9.7	10.1	11.7	13.6	14.7	14.6	21.0	44.3	66.8	92.6	102.1
52.5°	11.7	12.5	15.2	17.5	18.9	29.5	53.2	84.8	118.1	147.7	185.8
50°	13.6	16.4	19.2	22.6	36.0	63.6	98.2	141.4	191.5	238.7	287.1
47.5°	17.0	20.5	24.8	35.6	71.0	109.3	157.2	226.6	288.4	345.6	411.9
45°	21.0	28.3	33.1	70.5	111.7	161.1	242.2	327.0	383.1	459.6	577.0
42.5°	25.2	39.2	63.2	106.6	156.7	236.3	336.9	409.2	483.8	607.9	731.3
40°	36.3	52.5	95.4	146.9	210.4	326.6	429.8	511.6	613.6	751.1	880.0
37.5°	49.7	80.2	128.2	190.0	294.8	422.1	532.6	649.5	766.7	896.4	1135.4
35°	64.7	105.8	169.8	253.1	379.3	528.0	659.8	790.4	925.5	1180.8	1418.0
32.5°	84.1	129.5	213.3	326.6	470.5	633.8	786.7	937.7	1154.5	1443.3	1681.3
30°	105.1	167.4	263.3	394.6	556.3	730.6	914.5	1097.4	1384.2	1623.2	1881.6
27.5°	127.0	207.5	322.0	465.6	636.8	822.1	1029.7	1290.4	1546.2	1782.4	2066.4
25°	149.5	249.3	375.7	533.5	715.9	920.9	1159.6	1477.2	1677.3	1938.4	2234.6
22.5°	178.4	289.3	428.8	595.0	789.2	1022.4	1326.9	1645.8	1881.3	2100.9	2390.2
20°	211.8	334.2	486.6	672.1	861.1	1121.6	1493.2	1828.6	2105.7	2357.0	2622.8
17.5°	243.1	376.3	548.4	750.8	965.6	1248.7	1656.4	2027.6	2332.5	2612.6	2944.4
15°	272.0	415.2	608.9	825.3	1068.4	1394.3	1802.7	2210.4	2558.5	2873.7	3250.8
12.5°	298.4	450.7	667.2	895.0	1165.2	1519.8	1925.6	2323.5	2706.1	3116.9	3544.8
10°	322.2	482.7	722.3	959.4	1254.9	1626.0	2027.1	2417.8	2803.8	3238.5	3714.0
7.5°	347.7	512.6	772.3	1017.9	1336.5	1713.6	2108.1	2493.5	2882.8	3335.8	3823.9
5°	371.3	540.1	812.1	1059.8	1399.6	1782.1	2169.2	2550.9	2942.8	3408.3	3907.2
2.5°	392.1	563.2	844.4	1092.7	1446.4	1832.4	2208.8	2598.9	2987.3	3467.2	3970.8
0°	409.7	582.0	869.1	1118.0	1481.7	1868.5	2232.2	2630.4	3013.3	3507.2	4012.6
-2.5°	421.0	612.7	886.1	1162.0	1512.6	1892.1	2253.1	2639.2	3041.3	3519.8	4059.5
-5°	428.9	637.6	896.3	1196.0	1532.8	1902.5	2260.0	2632.3	3048.7	3516.6	4066.5
-7.5°	433.5	655.1	901.1	1215.2	1540.0	1896.2	2248.3	2619.4	3036.5	3504.6	4036.0
-10°	436.2	660.7	907.6	1209.4	1530.6	1875.7	2222.4	2589.0	3001.8	3465.5	3978.3
-12.5°	443.4	657.2	906.5	1196.6	1510.5	1844.7	2184.0	2540.8	2943.9	3398.7	3898.4
-15°	445.2	649.3	895.6	1177.6	1479.7	1804.1	2133.7	2474.8	2872.5	3333.6	3810.1
-17.5°	441.1	637.4	874.4	1153.5	1438.5	1755.0	2074.5	2415.4	2805.6	3258.5	3717.4
-20°	430.9	621.9	842.3	1124.9	1389.6	1700.3	2015.2	2353.0	2728.6	3154.4	3613.6

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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	414.1	603.3	807.7	1085.1	1347.3	1637.6	1945.7	2268.0	2632.2	3019.3	3474.1
-25°	396.7	582.2	780.4	1030.3	1296.5	1564.4	1865.9	2164.0	2518.9	2899.1	3302.6
-27.5°	380.3	552.8	752.0	970.3	1236.7	1486.1	1775.6	2066.4	2391.5	2764.1	3135.6
-30°	358.8	520.9	717.3	912.6	1165.1	1412.4	1674.9	1961.1	2253.4	2607.0	2972.6
-32.5°	339.8	487.9	677.8	868.6	1088.2	1329.4	1566.3	1839.1	2124.4	2425.8	2787.0
-35°	327.2	468.4	636.0	817.9	1009.8	1239.1	1464.5	1701.5	1977.8	2260.7	2577.8
-37.5°	316.9	445.9	592.0	764.9	947.6	1144.5	1355.4	1573.5	1814.6	2099.8	2398.0
-40°	300.7	420.6	559.4	714.5	875.7	1054.7	1250.5	1447.9	1657.0	1935.6	2229.8
-42.5°	280.0	396.1	528.6	659.7	806.9	970.3	1144.3	1330.2	1531.1	1773.2	2043.6
-45°	264.0	364.8	494.5	611.8	733.7	883.1	1046.6	1215.0	1404.4	1612.3	1855.2
-47.5°	243.8	330.8	449.8	559.4	666.8	794.4	943.8	1103.2	1271.0	1458.3	1657.4
-50°	222.2	302.4	395.1	501.9	604.2	710.3	837.8	985.2	1137.5	1300.7	1478.3
-52.5°	205.7	269.2	353.8	442.7	540.3	636.5	745.0	871.4	1007.4	1143.8	1300.0
-55°	187.1	244.7	314.5	394.2	477.3	566.3	665.1	775.8	886.7	1012.0	1136.7
-57.5°	174.0	221.2	281.6	350.9	425.5	501.2	594.5	688.0	790.7	894.4	997.8
-60°	163.8	200.9	251.0	312.0	378.5	449.3	525.8	612.2	700.6	785.2	874.6
-62.5°	152.1	184.4	223.6	273.3	333.4	394.9	462.3	536.4	616.4	687.6	756.9
-65°	137.0	165.0	198.6	239.1	286.3	338.3	395.8	458.2	527.3	585.1	641.8
-67.5°	119.6	143.2	171.4	204.5	243.8	284.4	326.6	379.4	435.5	482.7	528.8
-70°	97.8	119.6	142.6	169.6	200.4	234.9	272.0	310.3	348.7	387.2	429.4
-72.5°	74.8	94.7	114.2	133.4	158.0	186.2	216.5	248.7	282.2	315.1	347.2
-75°	57.0	69.9	87.0	104.3	121.4	139.8	160.3	185.8	217.0	248.9	278.2
-77.5°	43.0	53.9	65.2	77.2	87.9	101.5	116.3	132.2	157.9	187.4	217.2
-80°	31.0	37.5	46.6	56.2	63.7	71.2	79.0	87.0	106.2	129.9	155.3
-82.5°	23.0	27.5	32.5	38.0	41.9	45.6	49.8	55.1	69.3	85.3	102.3
-85°	15.9	17.2	19.9	23.0	25.1	27.3	29.5	31.8	39.4	48.0	57.2
-87.5°	13.7	14.3	15.1	15.9	16.1	16.4	16.6	16.9	19.4	22.1	24.9
-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: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4B-730-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	15.3	16.3	17.2	18.2	19.1	20.1	21.1	22.0	23.0	23.0	23.0
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°	0.3	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1.7	1.9	2.0	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	4.0	3.8	2.8	1.9	0.9	1.5	2.3	2.8	2.8	2.5	1.9
62.5°	6.1	5.6	5.0	5.8	7.0	8.1	7.7	7.3	6.8	6.5	6.7
60°	22.7	15.1	17.5	21.9	20.5	14.0	23.1	26.1	22.2	15.2	14.7
57.5°	57.4	55.4	63.5	92.7	102.0	92.9	111.0	134.8	134.1	115.5	114.9
55°	122.3	164.0	214.5	222.6	257.7	328.1	382.9	358.9	358.7	376.8	435.0
52.5°	232.2	271.7	286.3	325.5	398.9	452.1	486.4	521.8	560.6	600.2	640.3
50°	340.8	379.1	422.6	462.7	564.3	618.9	609.8	683.1	777.0	835.6	865.8
47.5°	500.0	560.3	652.1	796.1	871.9	926.6	994.8	1077.8	1185.4	1331.3	1443.7
45°	687.3	782.2	924.3	1077.2	1194.8	1248.4	1326.4	1455.1	1626.5	1793.5	1915.4
42.5°	840.4	970.6	1130.9	1277.0	1372.9	1460.9	1561.9	1670.4	1866.8	2045.1	2186.1
40°	1040.2	1141.6	1321.5	1459.2	1545.1	1632.4	1792.3	1954.7	2139.4	2305.6	2421.1
37.5°	1293.5	1407.6	1594.7	1750.5	1833.2	1864.0	2136.0	2362.1	2512.2	2724.4	2793.7
35°	1565.6	1753.4	1991.8	2193.8	2274.8	2436.7	2716.9	3032.3	3374.1	3499.8	3607.0
32.5°	1869.1	2100.8	2424.3	2641.0	2756.7	3002.3	3357.0	3693.7	4140.6	4383.2	4455.7
30°	2146.8	2412.7	2690.8	2901.4	3099.2	3395.0	3718.4	4133.6	4546.8	4857.0	4953.3
27.5°	2350.6	2644.8	2912.1	3109.4	3332.6	3651.4	4054.7	4475.2	4880.9	5197.2	5309.7
25°	2545.1	2877.7	3089.3	3318.7	3580.7	3928.2	4375.2	4842.4	5241.9	5509.3	5647.2
22.5°	2766.4	3094.3	3321.5	3515.8	3858.4	4258.8	4673.7	5201.6	5624.9	5838.3	5987.8
20°	2994.8	3365.8	3716.7	3897.4	4193.9	4700.9	5165.3	5663.7	6072.5	6294.9	6452.3
17.5°	3313.4	3786.2	4216.6	4472.5	4790.1	5396.3	5975.8	6479.9	7048.5	7249.4	7441.8
15°	3649.4	4196.6	4700.8	5106.2	5516.4	6117.0	6863.0	7471.4	8120.2	8410.0	8737.6
12.5°	3984.4	4502.2	4959.0	5482.0	6060.0	6591.3	7301.5	8059.1	8647.9	9017.5	9238.0
10°	4234.8	4715.7	5155.3	5679.5	6256.4	6857.4	7563.1	8339.7	8956.1	9271.4	9451.4
7.5°	4369.9	4830.2	5293.9	5825.1	6399.4	7039.5	7766.7	8537.1	9167.3	9472.9	9650.6
5°	4470.3	4912.3	5392.5	5951.7	6532.4	7181.4	7907.6	8668.8	9243.5	9568.2	9793.0
2.5°	4531.0	4964.3	5455.3	6033.5	6615.6	7291.6	8052.8	8841.9	9344.8	9605.9	9812.7
0°	4548.6	4985.1	5490.5	6076.3	6673.6	7355.1	8109.4	8890.5	9399.7	9652.4	9863.0
-2.5°	4568.4	5017.9	5537.1	6104.1	6696.3	7375.9	8145.9	8906.9	9365.0	9620.0	9820.3
-5°	4554.6	5020.4	5538.1	6081.1	6677.2	7351.4	8090.5	8802.2	9281.4	9557.0	9756.2
-7.5°	4513.4	4985.8	5498.1	6020.0	6604.8	7286.6	8022.6	8707.9	9193.3	9484.0	9702.0
-10°	4453.4	4912.0	5427.9	5956.5	6534.2	7183.2	7908.0	8589.1	9053.7	9362.4	9616.4
-12.5°	4387.0	4836.1	5333.3	5840.3	6411.7	7052.7	7754.9	8399.7	8861.5	9198.2	9379.7
-15°	4288.5	4737.3	5212.7	5703.1	6260.0	6881.9	7552.6	8171.3	8624.8	8898.7	9099.4
-17.5°	4163.2	4603.6	5054.2	5519.4	6044.1	6656.5	7331.4	7941.5	8311.2	8555.8	8753.0
-20°	4029.0	4436.3	4863.2	5302.1	5810.7	6417.4	7080.1	7612.3	7960.8	8195.8	8382.0



REPORT NUMBER: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-730-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°	3875.7	4267.9	4658.7	5078.3	5577.0	6133.2	6718.6	7232.9	7607.5	7821.7	7993.7
-25°	3700.8	4082.3	4453.4	4858.7	5317.0	5817.0	6361.2	6866.6	7202.2	7429.6	7600.2
-27.5°	3512.4	3870.8	4233.3	4597.2	5009.3	5507.4	6011.5	6481.0	6767.4	6996.6	7168.3
-30°	3324.3	3646.7	3982.1	4326.6	4713.3	5162.5	5634.0	6028.8	6330.8	6553.6	6712.9
-32.5°	3120.5	3426.4	3723.6	4045.5	4409.7	4805.5	5219.3	5594.9	5917.6	6121.6	6255.9
-35°	2911.7	3207.9	3479.9	3772.1	4093.3	4434.9	4816.8	5187.2	5505.9	5667.4	5798.3
-37.5°	2694.3	2989.6	3247.5	3491.6	3768.3	4084.6	4456.6	4810.0	5085.4	5224.1	5342.1
-40°	2505.2	2765.2	2997.3	3230.9	3455.9	3736.8	4084.0	4426.1	4647.1	4782.3	4891.9
-42.5°	2321.7	2541.0	2731.0	2940.5	3165.6	3442.5	3722.7	4009.5	4187.1	4337.2	4452.7
-45°	2107.9	2303.9	2482.1	2656.3	2861.6	3114.5	3368.9	3598.7	3765.1	3910.1	4022.6
-47.5°	1871.5	2060.7	2233.8	2389.5	2580.3	2791.2	3005.4	3196.7	3361.0	3504.3	3604.6
-50°	1651.1	1820.2	1989.2	2146.8	2312.2	2482.7	2656.5	2824.4	2980.3	3119.6	3205.0
-52.5°	1453.7	1609.7	1757.4	1895.2	2039.9	2184.1	2328.0	2481.7	2625.2	2757.0	2825.2
-55°	1275.1	1415.8	1549.0	1665.1	1781.2	1895.6	2019.0	2160.9	2293.0	2415.1	2464.0
-57.5°	1114.8	1235.2	1353.1	1451.3	1546.1	1637.0	1745.3	1865.1	1980.7	2085.4	2125.4
-60°	967.4	1062.9	1161.5	1248.6	1331.2	1409.1	1503.6	1600.1	1693.8	1772.7	1806.8
-62.5°	831.7	913.4	988.1	1058.9	1128.8	1199.1	1275.3	1351.8	1427.6	1488.3	1519.1
-65°	700.9	766.0	826.0	884.2	940.7	999.7	1059.4	1117.5	1173.5	1217.0	1243.7
-67.5°	578.2	627.6	675.3	720.6	767.9	815.7	862.4	906.9	949.0	982.6	1008.1
-70°	469.3	507.6	544.9	582.5	621.9	659.1	694.2	727.5	758.9	783.1	802.7
-72.5°	378.3	409.3	441.5	475.4	507.3	535.1	560.3	584.7	608.0	621.6	631.8
-75°	305.0	331.1	359.1	386.5	413.1	434.3	452.8	470.8	488.1	489.0	485.5
-77.5°	246.3	269.7	291.4	312.9	334.2	347.2	358.5	370.2	382.1	375.2	364.4
-80°	180.8	200.3	218.7	237.2	255.7	263.4	268.8	273.4	277.4	268.4	257.4
-82.5°	120.0	132.3	144.2	156.4	168.8	173.7	177.4	180.4	182.8	174.7	165.4
-85°	67.0	72.9	78.7	84.5	90.4	93.8	96.9	99.8	102.5	97.7	92.2
-87.5°	27.8	29.2	30.5	31.8	33.0	34.3	35.5	36.6	37.8	37.9	38.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4B-730-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°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.0
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°	0.0	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°	1.1	0.2	0.0	0.0	0.0	0.2	1.1	1.9	2.5	2.8	2.8
62.5°	7.0	7.4	7.6	7.7	7.6	7.4	7.0	6.7	6.5	6.8	7.3
60°	13.5	11.9	11.5	11.5	11.5	11.9	13.5	14.7	15.2	22.2	26.1
57.5°	106.2	90.9	93.2	103.4	93.2	90.9	106.2	114.9	115.5	134.1	134.8
55°	496.1	553.7	574.1	562.8	574.1	553.7	496.1	435.0	376.8	358.7	358.9
52.5°	672.0	695.7	704.8	704.5	704.8	695.7	672.0	640.3	600.2	560.6	521.8
50°	874.9	866.9	854.6	842.3	854.6	866.9	874.9	865.8	835.6	777.0	683.1
47.5°	1460.1	1434.8	1424.2	1443.5	1424.2	1434.8	1460.1	1443.7	1331.3	1185.4	1077.8
45°	1940.3	1969.9	1992.1	1991.0	1992.1	1969.9	1940.3	1915.4	1793.5	1626.5	1455.1
42.5°	2213.7	2229.5	2234.1	2228.4	2234.1	2229.5	2213.7	2186.1	2045.1	1866.8	1670.4
40°	2457.4	2476.2	2486.8	2496.4	2486.8	2476.2	2457.4	2421.1	2305.6	2139.4	1954.7
37.5°	2816.6	2823.5	2808.5	2798.9	2808.5	2823.5	2816.6	2793.7	2724.4	2512.2	2362.1
35°	3697.3	3715.4	3673.6	3717.8	3673.6	3715.4	3697.3	3607.0	3499.8	3374.1	3032.3
32.5°	4542.0	4626.6	4695.0	4751.5	4695.0	4626.6	4542.0	4455.7	4383.2	4140.6	3693.7
30°	5020.5	5075.1	5104.4	5111.4	5104.4	5075.1	5020.5	4953.3	4857.0	4546.8	4133.6
27.5°	5371.8	5429.0	5464.6	5490.5	5464.6	5429.0	5371.8	5309.7	5197.2	4880.9	4475.2
25°	5710.4	5762.7	5798.3	5812.1	5798.3	5762.7	5710.4	5647.2	5509.3	5241.9	4842.4
22.5°	6061.8	6098.1	6132.2	6149.1	6132.2	6098.1	6061.8	5987.8	5838.3	5624.9	5201.6
20°	6565.4	6545.7	6576.8	6566.4	6576.8	6545.7	6565.4	6452.3	6294.9	6072.5	5663.7
17.5°	7591.8	7602.5	7623.4	7657.6	7623.4	7602.5	7591.8	7441.8	7249.4	7048.5	6479.9
15°	8882.7	8908.7	9040.7	9158.5	9040.7	8908.7	8882.7	8737.6	8410.0	8120.2	7471.4
12.5°	9442.7	9532.5	9546.5	9579.7	9546.5	9532.5	9442.7	9238.0	9017.5	8647.9	8059.1
10°	9629.5	9785.1	9781.8	9820.9	9781.8	9785.1	9629.5	9451.4	9271.4	8956.1	8339.7
7.5°	9771.3	9938.4	10009.0	10039.1	10009.0	9938.4	9771.3	9650.6	9472.9	9167.3	8537.1
5°	9944.4	10036.3	10158.2	10123.3	10158.2	10036.3	9944.4	9793.0	9568.2	9243.5	8668.8
2.5°	10016.9	10160.9	10127.7	10161.6	10127.7	10160.9	10016.9	9812.7	9605.9	9344.8	8841.9
0°	10065.9	10169.3	10184.6	10219.1	10184.6	10169.3	10065.9	9863.0	9652.4	9399.7	8890.5
-2.5°	10006.5	10097.5	10256.8	10207.6	10256.8	10097.5	10006.5	9820.3	9620.0	9365.0	8906.9
-5°	9954.5	10178.4	10091.4	10199.9	10091.4	10178.4	9954.5	9756.2	9557.0	9281.4	8802.2
-7.5°	9927.6	9967.7	10025.3	10108.0	10025.3	9967.7	9927.6	9702.0	9484.0	9193.3	8707.9
-10°	9719.8	9760.7	9866.8	9924.2	9866.8	9760.7	9719.8	9616.4	9362.4	9053.7	8589.1
-12.5°	9494.4	9573.7	9685.1	9721.3	9685.1	9573.7	9494.4	9379.7	9198.2	8861.5	8399.7
-15°	9234.8	9352.6	9461.1	9483.9	9461.1	9352.6	9234.8	9099.4	8898.7	8624.8	8171.3
-17.5°	8904.6	9045.9	9159.9	9185.3	9159.9	9045.9	8904.6	8753.0	8555.8	8311.2	7941.5
-20°	8540.8	8676.2	8773.2	8802.4	8773.2	8676.2	8540.8	8382.0	8195.8	7960.8	7612.3



REPORT NUMBER: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4B-730-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	8151.4	8273.2	8355.2	8343.0	8355.2	8273.2	8151.4	7993.7	7821.7	7607.5	7232.9
-25°	7737.9	7850.9	7929.1	7918.0	7929.1	7850.9	7737.9	7600.2	7429.6	7202.2	6866.6
-27.5°	7300.7	7407.8	7482.9	7485.3	7482.9	7407.8	7300.7	7168.3	6996.6	6767.4	6481.0
-30°	6841.4	6938.6	6999.6	6976.1	6999.6	6938.6	6841.4	6712.9	6553.6	6330.8	6028.8
-32.5°	6367.6	6455.6	6511.5	6528.1	6511.5	6455.6	6367.6	6255.9	6121.6	5917.6	5594.9
-35°	5900.3	5977.8	6026.1	6038.0	6026.1	5977.8	5900.3	5798.3	5667.4	5505.9	5187.2
-37.5°	5436.0	5502.7	5536.4	5521.1	5536.4	5502.7	5436.0	5342.1	5224.1	5085.4	4810.0
-40°	4977.1	5040.7	5079.3	5088.5	5079.3	5040.7	4977.1	4891.9	4782.3	4647.1	4426.1
-42.5°	4526.0	4578.9	4612.7	4629.0	4612.7	4578.9	4526.0	4452.7	4337.2	4187.1	4009.5
-45°	4088.2	4135.4	4167.2	4184.9	4167.2	4135.4	4088.2	4022.6	3910.1	3765.1	3598.7
-47.5°	3662.2	3703.6	3731.1	3744.6	3731.1	3703.6	3662.2	3604.6	3504.3	3361.0	3196.7
-50°	3254.9	3290.8	3316.4	3331.1	3316.4	3290.8	3254.9	3205.0	3119.6	2980.3	2824.4
-52.5°	2868.6	2899.9	2921.7	2932.9	2921.7	2899.9	2868.6	2825.2	2757.0	2625.2	2481.7
-55°	2499.7	2525.1	2545.3	2557.6	2545.3	2525.1	2499.7	2464.0	2415.1	2293.0	2160.9
-57.5°	2155.7	2176.5	2195.6	2209.2	2195.6	2176.5	2155.7	2125.4	2085.4	1980.7	1865.1
-60°	1833.7	1853.4	1869.6	1879.9	1869.6	1853.4	1833.7	1806.8	1772.7	1693.8	1600.1
-62.5°	1543.1	1560.5	1575.4	1585.1	1575.4	1560.5	1543.1	1519.1	1488.3	1427.6	1351.8
-65°	1264.6	1280.2	1291.3	1298.0	1291.3	1280.2	1264.6	1243.7	1217.0	1173.5	1117.5
-67.5°	1029.8	1047.7	1051.3	1049.1	1051.3	1047.7	1029.8	1008.1	982.6	949.0	906.9
-70°	820.2	835.4	839.0	838.5	839.0	835.4	820.2	802.7	783.1	758.9	727.5
-72.5°	641.3	649.6	642.6	631.8	642.6	649.6	641.3	631.8	621.6	608.0	584.7
-75°	481.3	476.0	468.6	459.5	468.6	476.0	481.3	485.5	489.0	488.1	470.8
-77.5°	352.5	339.5	330.9	321.6	330.9	339.5	352.5	364.4	375.2	382.1	370.2
-80°	245.5	232.7	223.8	214.4	223.8	232.7	245.5	257.4	268.4	277.4	273.4
-82.5°	155.5	144.9	139.6	134.0	139.6	144.9	155.5	165.4	174.7	182.8	180.4
-85°	86.3	80.1	76.5	72.7	76.5	80.1	86.3	92.2	97.7	102.5	99.8
-87.5°	38.2	38.2	36.4	34.5	36.4	38.2	38.2	38.1	37.9	37.8	36.6
-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: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-730-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	21.1	20.1	19.1	18.2	17.2	16.3	15.3	14.4	13.4	12.5	11.5
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	0.1	0.1	0.0	0.0	0.3	0.5	0.2	0.0	0.4
67.5°	0.0	0.0	0.7	1.6	2.0	1.9	1.7	1.9	2.3	2.1	1.9
65°	2.3	1.5	0.9	1.9	2.8	3.8	4.0	3.5	3.4	4.0	4.7
62.5°	7.7	8.1	7.0	5.8	5.0	5.6	6.1	6.5	5.7	4.5	5.9
60°	23.1	14.0	20.5	21.9	17.5	15.1	22.7	21.5	11.2	9.7	8.7
57.5°	111.0	92.9	102.0	92.7	63.5	55.4	57.4	54.8	49.6	30.3	12.9
55°	382.9	328.1	257.7	222.6	214.5	164.0	122.3	102.1	92.6	66.8	44.3
52.5°	486.4	452.1	398.9	325.5	286.3	271.7	232.2	185.8	147.7	118.1	84.8
50°	609.8	618.9	564.3	462.7	422.6	379.1	340.8	287.1	238.7	191.5	141.4
47.5°	994.8	926.6	871.9	796.1	652.1	560.3	500.0	411.9	345.6	288.4	226.6
45°	1326.4	1248.4	1194.8	1077.2	924.3	782.2	687.3	577.0	459.6	383.1	327.0
42.5°	1561.9	1460.9	1372.9	1277.0	1130.9	970.6	840.4	731.3	607.9	483.8	409.2
40°	1792.3	1632.4	1545.1	1459.2	1321.5	1141.6	1040.2	880.0	751.1	613.6	511.6
37.5°	2136.0	1864.0	1833.2	1750.5	1594.7	1407.6	1293.5	1135.4	896.4	766.7	649.5
35°	2716.9	2436.7	2274.8	2193.8	1991.8	1753.4	1565.6	1418.0	1180.8	925.5	790.4
32.5°	3357.0	3002.3	2756.7	2641.0	2424.3	2100.8	1869.1	1681.3	1443.3	1154.5	937.7
30°	3718.4	3395.0	3099.2	2901.4	2690.8	2412.7	2146.8	1881.6	1623.2	1384.2	1097.4
27.5°	4054.7	3651.4	3332.6	3109.4	2912.1	2644.8	2350.6	2066.4	1782.4	1546.2	1290.4
25°	4375.2	3928.2	3580.7	3318.7	3089.3	2877.7	2545.1	2234.6	1938.4	1677.3	1477.2
22.5°	4673.7	4258.8	3858.4	3515.8	3321.5	3094.3	2766.4	2390.2	2100.9	1881.3	1645.8
20°	5165.3	4700.9	4193.9	3897.4	3716.7	3365.8	2994.8	2622.8	2357.0	2105.7	1828.6
17.5°	5975.8	5396.3	4790.1	4472.5	4216.6	3786.2	3313.4	2944.4	2612.6	2332.5	2027.6
15°	6863.0	6117.0	5516.4	5106.2	4700.8	4196.6	3649.4	3250.8	2873.7	2558.5	2210.4
12.5°	7301.5	6591.3	6060.0	5482.0	4959.0	4502.2	3984.4	3544.8	3116.9	2706.1	2323.5
10°	7563.1	6857.4	6256.4	5679.5	5155.3	4715.7	4234.8	3714.0	3238.5	2803.8	2417.8
7.5°	7766.7	7039.5	6399.4	5825.1	5293.9	4830.2	4369.9	3823.9	3335.8	2882.8	2493.5
5°	7907.6	7181.4	6532.4	5951.7	5392.5	4912.3	4470.3	3907.2	3408.3	2942.8	2550.9
2.5°	8052.8	7291.6	6615.6	6033.5	5455.3	4964.3	4531.0	3970.8	3467.2	2987.3	2598.9
0°	8109.4	7355.1	6673.6	6076.3	5490.5	4985.1	4548.6	4012.6	3507.2	3013.3	2630.4
-2.5°	8145.9	7375.9	6696.3	6104.1	5537.1	5017.9	4568.4	4059.5	3519.8	3041.3	2639.2
-5°	8090.5	7351.4	6677.2	6081.1	5538.1	5020.4	4554.6	4066.5	3516.6	3048.7	2632.3
-7.5°	8022.6	7286.6	6604.8	6020.0	5498.1	4985.8	4513.4	4036.0	3504.6	3036.5	2619.4
-10°	7908.0	7183.2	6534.2	5956.5	5427.9	4912.0	4453.4	3978.3	3465.5	3001.8	2589.0
-12.5°	7754.9	7052.7	6411.7	5840.3	5333.3	4836.1	4387.0	3898.4	3398.7	2943.9	2540.8
-15°	7552.6	6881.9	6260.0	5703.1	5212.7	4737.3	4288.5	3810.1	3333.6	2872.5	2474.8
-17.5°	7331.4	6656.5	6044.1	5519.4	5054.2	4603.6	4163.2	3717.4	3258.5	2805.6	2415.4
-20°	7080.1	6417.4	5810.7	5302.1	4863.2	4436.3	4029.0	3613.6	3154.4	2728.6	2353.0



REPORT NUMBER: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-730-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	6718.6	6133.2	5577.0	5078.3	4658.7	4267.9	3875.7	3474.1	3019.3	2632.2	2268.0
-25°	6361.2	5817.0	5317.0	4858.7	4453.4	4082.3	3700.8	3302.6	2899.1	2518.9	2164.0
-27.5°	6011.5	5507.4	5009.3	4597.2	4233.3	3870.8	3512.4	3135.6	2764.1	2391.5	2066.4
-30°	5634.0	5162.5	4713.3	4326.6	3982.1	3646.7	3324.3	2972.6	2607.0	2253.4	1961.1
-32.5°	5219.3	4805.5	4409.7	4045.5	3723.6	3426.4	3120.5	2787.0	2425.8	2124.4	1839.1
-35°	4816.8	4434.9	4093.3	3772.1	3479.9	3207.9	2911.7	2577.8	2260.7	1977.8	1701.5
-37.5°	4456.6	4084.6	3768.3	3491.6	3247.5	2989.6	2694.3	2398.0	2099.8	1814.6	1573.5
-40°	4084.0	3736.8	3455.9	3230.9	2997.3	2765.2	2505.2	2229.8	1935.6	1657.0	1447.9
-42.5°	3722.7	3442.5	3165.6	2940.5	2731.0	2541.0	2321.7	2043.6	1773.2	1531.1	1330.2
-45°	3368.9	3114.5	2861.6	2656.3	2482.1	2303.9	2107.9	1855.2	1612.3	1404.4	1215.0
-47.5°	3005.4	2791.2	2580.3	2389.5	2233.8	2060.7	1871.5	1657.4	1458.3	1271.0	1103.2
-50°	2656.5	2482.7	2312.2	2146.8	1989.2	1820.2	1651.1	1478.3	1300.7	1137.5	985.2
-52.5°	2328.0	2184.1	2039.9	1895.2	1757.4	1609.7	1453.7	1300.0	1143.8	1007.4	871.4
-55°	2019.0	1895.6	1781.2	1665.1	1549.0	1415.8	1275.1	1136.7	1012.0	886.7	775.8
-57.5°	1745.3	1637.0	1546.1	1451.3	1353.1	1235.2	1114.8	997.8	894.4	790.7	688.0
-60°	1503.6	1409.1	1331.2	1248.6	1161.5	1062.9	967.4	874.6	785.2	700.6	612.2
-62.5°	1275.3	1199.1	1128.8	1058.9	988.1	913.4	831.7	756.9	687.6	616.4	536.4
-65°	1059.4	999.7	940.7	884.2	826.0	766.0	700.9	641.8	585.1	527.3	458.2
-67.5°	862.4	815.7	767.9	720.6	675.3	627.6	578.2	528.8	482.7	435.5	379.4
-70°	694.2	659.1	621.9	582.5	544.9	507.6	469.3	429.4	387.2	348.7	310.3
-72.5°	560.3	535.1	507.3	475.4	441.5	409.3	378.3	347.2	315.1	282.2	248.7
-75°	452.8	434.3	413.1	386.5	359.1	331.1	305.0	278.2	248.9	217.0	185.8
-77.5°	358.5	347.2	334.2	312.9	291.4	269.7	246.3	217.2	187.4	157.9	132.2
-80°	268.8	263.4	255.7	237.2	218.7	200.3	180.8	155.3	129.9	106.2	87.0
-82.5°	177.4	173.7	168.8	156.4	144.2	132.3	120.0	102.3	85.3	69.3	55.1
-85°	96.9	93.8	90.4	84.5	78.7	72.9	67.0	57.2	48.0	39.4	31.8
-87.5°	35.5	34.3	33.0	31.8	30.5	29.2	27.8	24.9	22.1	19.4	16.9
-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: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4B-730-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°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	10.6	9.6	8.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	2.0
85°	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.6	1.1
82.5°	0.0	0.0	0.0	0.1	0.6	1.0	1.1	1.0	0.6	0.1	0.3
80°	0.0	0.0	0.0	0.1	0.9	2.0	2.5	2.6	2.0	1.4	0.7
77.5°	0.0	0.0	0.0	0.0	0.4	1.1	2.2	3.4	3.4	2.7	1.9
75°	0.0	0.0	0.0	0.1	0.3	0.1	0.8	2.0	3.1	3.7	3.0
72.5°	0.0	0.0	0.0	0.5	1.0	1.1	0.6	0.7	2.2	3.2	3.8
70°	0.6	0.2	0.0	0.6	1.6	2.3	2.2	1.7	1.5	2.8	3.6
67.5°	1.8	1.9	1.4	1.1	1.7	2.6	3.5	3.4	3.0	2.5	3.5
65°	4.5	4.1	3.7	3.3	2.9	2.8	3.7	4.7	4.5	3.8	3.5
62.5°	6.7	6.7	6.2	5.6	5.0	4.3	4.0	5.3	5.8	5.2	4.3
60°	8.6	9.0	8.6	7.8	7.1	6.3	5.7	6.0	6.7	6.5	5.5
57.5°	11.9	11.6	11.4	10.4	9.2	8.2	7.7	7.5	7.7	7.6	6.6
55°	21.0	14.6	14.7	13.6	11.7	10.1	9.7	9.3	8.9	8.8	7.8
52.5°	53.2	29.5	18.9	17.5	15.2	12.5	11.7	11.1	10.5	10.0	8.9
50°	98.2	63.6	36.0	22.6	19.2	16.4	13.6	12.9	12.2	11.4	10.0
47.5°	157.2	109.3	71.0	35.6	24.8	20.5	17.0	14.7	13.8	12.8	11.0
45°	242.2	161.1	111.7	70.5	33.1	28.3	21.0	16.5	15.4	14.1	12.1
42.5°	336.9	236.3	156.7	106.6	63.2	39.2	25.2	20.0	16.9	15.5	13.2
40°	429.8	326.6	210.4	146.9	95.4	52.5	36.3	23.8	18.5	17.1	14.5
37.5°	532.6	422.1	294.8	190.0	128.2	80.2	49.7	27.8	21.0	18.6	15.9
35°	659.8	528.0	379.3	253.1	169.8	105.8	64.7	35.4	25.9	20.3	17.3
32.5°	786.7	633.8	470.5	326.6	213.3	129.5	84.1	50.5	31.5	22.1	18.7
30°	914.5	730.6	556.3	394.6	263.3	167.4	105.1	65.2	38.0	23.9	20.2
27.5°	1029.7	822.1	636.8	465.6	322.0	207.5	127.0	79.5	45.2	27.1	21.7
25°	1159.6	920.9	715.9	533.5	375.7	249.3	149.5	93.4	55.6	32.6	23.2
22.5°	1326.9	1022.4	789.2	595.0	428.8	289.3	178.4	111.9	67.2	38.4	24.7
20°	1493.2	1121.6	861.1	672.1	486.6	334.2	211.8	130.2	78.1	44.5	26.2
17.5°	1656.4	1248.7	965.6	750.8	548.4	376.3	243.1	148.2	88.4	50.7	27.6
15°	1802.7	1394.3	1068.4	825.3	608.9	415.2	272.0	165.7	98.1	56.9	29.6
12.5°	1925.6	1519.8	1165.2	895.0	667.2	450.7	298.4	182.4	107.0	63.8	32.2
10°	2027.1	1626.0	1254.9	959.4	722.3	482.7	322.2	199.2	117.4	71.1	35.0
7.5°	2108.1	1713.6	1336.5	1017.9	772.3	512.6	347.7	216.9	127.6	78.0	37.8
5°	2169.2	1782.1	1399.6	1059.8	812.1	540.1	371.3	233.2	137.0	84.5	40.7
2.5°	2208.8	1832.4	1446.4	1092.7	844.4	563.2	392.1	247.7	145.6	90.4	43.4
0°	2232.2	1868.5	1481.7	1118.0	869.1	582.0	409.7	260.4	153.2	95.7	45.9
-2.5°	2253.1	1892.1	1512.6	1162.0	886.1	612.7	421.0	271.8	165.3	99.5	50.6
-5°	2260.0	1902.5	1532.8	1196.0	896.3	637.6	428.9	281.1	175.9	102.6	54.9
-7.5°	2248.3	1896.2	1540.0	1215.2	901.1	655.1	433.5	288.4	184.5	105.0	58.6
-10°	2222.4	1875.7	1530.6	1209.4	907.6	660.7	436.2	293.8	190.7	106.7	61.7
-12.5°	2184.0	1844.7	1510.5	1196.6	906.5	657.2	443.4	298.0	194.0	108.0	64.0
-15°	2133.7	1804.1	1479.7	1177.6	895.6	649.3	445.2	299.5	193.7	110.2	65.4
-17.5°	2074.5	1755.0	1438.5	1153.5	874.4	637.4	441.1	297.6	191.7	113.5	66.8
-20°	2015.2	1700.3	1389.6	1124.9	842.3	621.9	430.9	292.1	188.2	115.7	68.2



REPORT NUMBER: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4B-730-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°	1945.7	1637.6	1347.3	1085.1	807.7	603.3	414.1	282.9	183.2	116.6	68.8
-25°	1865.9	1564.4	1296.5	1030.3	780.4	582.2	396.7	269.6	176.7	116.3	68.6
-27.5°	1775.6	1486.1	1236.7	970.3	752.0	552.8	380.3	259.9	171.1	114.6	67.6
-30°	1674.9	1412.4	1165.1	912.6	717.3	520.9	358.8	249.1	168.7	112.5	65.7
-32.5°	1566.3	1329.4	1088.2	868.6	677.8	487.9	339.8	236.8	164.5	109.8	65.8
-35°	1464.5	1239.1	1009.8	817.9	636.0	468.4	327.2	223.1	158.5	105.9	66.2
-37.5°	1355.4	1144.5	947.6	764.9	592.0	445.9	316.9	217.0	150.9	101.0	65.9
-40°	1250.5	1054.7	875.7	714.5	559.4	420.6	300.7	210.2	143.5	95.1	65.0
-42.5°	1144.3	970.3	806.9	659.7	528.6	396.1	280.0	199.8	137.5	91.7	63.5
-45°	1046.6	883.1	733.7	611.8	494.5	364.8	264.0	186.7	130.2	89.2	62.2
-47.5°	943.8	794.4	666.8	559.4	449.8	330.8	243.8	176.4	121.4	86.0	61.3
-50°	837.8	710.3	604.2	501.9	395.1	302.4	222.2	164.1	118.3	83.5	59.8
-52.5°	745.0	636.5	540.3	442.7	353.8	269.2	205.7	150.9	114.1	81.3	57.6
-55°	665.1	566.3	477.3	394.2	314.5	244.7	187.1	144.6	108.9	78.6	55.0
-57.5°	594.5	501.2	425.5	350.9	281.6	221.2	174.0	137.2	103.5	74.9	52.7
-60°	525.8	449.3	378.5	312.0	251.0	200.9	163.8	128.6	97.0	70.2	50.1
-62.5°	462.3	394.9	333.4	273.3	223.6	184.4	152.1	118.6	89.4	64.4	46.7
-65°	395.8	338.3	286.3	239.1	198.6	165.0	137.0	107.2	79.3	57.4	42.3
-67.5°	326.6	284.4	243.8	204.5	171.4	143.2	119.6	92.1	67.5	49.2	37.2
-70°	272.0	234.9	200.4	169.6	142.6	119.6	97.8	74.5	54.5	42.2	31.7
-72.5°	216.5	186.2	158.0	133.4	114.2	94.7	74.8	57.0	45.2	34.8	25.9
-75°	160.3	139.8	121.4	104.3	87.0	69.9	57.0	45.3	35.6	27.1	21.8
-77.5°	116.3	101.5	87.9	77.2	65.2	53.9	43.0	33.2	26.9	22.5	18.4
-80°	79.0	71.2	63.7	56.2	46.6	37.5	31.0	25.5	21.7	18.1	14.8
-82.5°	49.8	45.6	41.9	38.0	32.5	27.5	23.0	19.3	16.4	13.7	12.0
-85°	29.5	27.3	25.1	23.0	19.9	17.2	15.9	14.7	13.4	12.2	10.9
-87.5°	16.6	16.4	16.1	15.9	15.1	14.3	13.7	13.1	12.0	10.9	9.8
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	2.8

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Scaled Data Report



REPORT NUMBER: P627330 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4B-730-U-VWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	7.7	6.7	5.8	4.8	3.8	3.8	3.8
87.5°	2.8	3.2	3.5	3.7	3.8	3.8	3.8
85°	1.8	2.6	3.1	3.6	3.8	3.8	3.8
82.5°	0.9	2.0	2.8	3.4	3.8	3.8	3.8
80°	0.2	1.4	2.5	3.3	3.8	3.8	3.8
77.5°	1.2	1.3	2.2	3.2	3.8	3.8	3.8
75°	2.1	1.9	2.1	3.1	3.8	3.8	3.8
72.5°	3.0	2.5	2.4	3.1	3.8	3.8	3.8
70°	3.8	3.0	2.7	3.0	3.8	3.8	3.8
67.5°	3.9	3.6	3.0	3.2	3.8	3.8	3.8
65°	4.1	3.9	3.3	3.3	3.8	3.8	3.8
62.5°	4.3	4.2	3.6	3.4	3.8	3.8	3.8
60°	4.5	4.6	3.8	3.5	3.8	3.8	3.8
57.5°	5.4	5.0	4.2	3.6	3.8	3.8	3.8
55°	6.4	5.4	4.6	3.7	3.9	3.8	3.8
52.5°	7.4	5.9	5.0	3.7	4.0	3.8	3.8
50°	8.3	6.7	5.4	3.8	4.1	3.8	3.8
47.5°	9.3	7.4	5.9	3.9	4.2	3.8	3.8
45°	10.2	8.2	6.3	4.2	4.3	3.8	3.8
42.5°	11.0	8.9	6.8	4.6	4.4	3.8	3.8
40°	11.9	9.6	7.3	5.1	4.5	3.8	3.8
37.5°	12.7	10.3	7.9	5.6	4.7	3.8	3.8
35°	13.5	11.0	8.4	6.1	4.9	3.8	3.8
32.5°	14.4	11.6	8.9	6.6	5.0	3.8	3.8
30°	15.5	12.2	9.4	7.1	5.2	3.8	3.8
27.5°	16.7	12.8	10.0	7.5	5.4	3.8	3.8
25°	17.8	13.4	10.6	8.0	5.6	3.8	3.8
22.5°	18.9	13.9	11.2	8.4	5.8	3.8	3.8
20°	20.0	14.6	11.8	8.8	6.1	3.8	3.8
17.5°	21.1	15.3	12.3	9.2	6.3	3.8	3.8
15°	22.2	15.9	12.8	9.6	6.5	3.8	3.8
12.5°	23.2	16.6	13.3	10.0	6.7	3.8	3.8
10°	24.1	17.1	13.7	10.3	6.9	3.8	3.8
7.5°	24.9	17.7	14.2	10.7	7.1	3.8	3.8
5°	25.6	18.2	14.6	11.0	7.3	3.8	3.8
2.5°	26.2	18.7	15.0	11.2	7.5	3.8	3.8
0°	26.8	19.1	15.3	11.5	7.7	3.8	3.8
-2.5°	28.3	19.5	15.6	11.5	7.7	3.8	3.8
-5°	29.6	19.9	15.9	11.5	7.7	3.8	3.8
-7.5°	30.8	20.2	16.1	11.4	7.6	3.8	3.8
-10°	31.8	20.5	16.3	11.3	7.6	3.8	3.8
-12.5°	32.6	20.8	16.4	11.2	7.5	3.8	3.8
-15°	33.1	21.0	16.5	11.1	7.4	3.8	3.8
-17.5°	33.2	21.2	16.5	11.0	7.3	3.8	3.8
-20°	34.1	21.3	16.4	10.8	7.2	3.8	3.8

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	36.3	21.4	16.2	10.6	7.1	3.8	3.8
-25°	38.1	22.8	15.9	10.4	7.0	3.8	3.8
-27.5°	39.5	24.6	15.5	10.2	6.8	3.8	3.8
-30°	40.4	26.1	15.1	10.0	6.7	3.8	3.8
-32.5°	40.9	27.3	15.7	9.7	6.5	3.8	3.8
-35°	42.0	28.3	16.1	9.4	6.3	3.8	3.8
-37.5°	43.1	29.0	16.4	9.1	6.1	3.8	3.8
-40°	43.8	29.2	16.5	8.8	5.9	3.8	3.8
-42.5°	44.0	29.2	16.6	8.6	5.6	3.8	3.8
-45°	43.8	29.0	16.7	8.7	5.4	3.8	3.8
-47.5°	43.1	28.6	16.6	8.6	5.2	3.8	3.8
-50°	42.2	27.9	16.3	8.5	4.9	3.8	3.8
-52.5°	41.1	27.1	15.8	8.4	4.6	3.8	3.8
-55°	39.6	25.9	15.1	8.1	4.4	3.8	3.8
-57.5°	37.8	24.5	14.3	7.8	4.1	3.8	3.8
-60°	35.8	22.9	13.3	7.5	3.8	3.8	3.8
-62.5°	32.9	20.9	12.6	7.1	3.8	3.8	3.8
-65°	29.7	18.8	11.7	6.6	3.8	3.8	3.8
-67.5°	26.1	16.9	10.8	6.1	3.8	3.8	3.8
-70°	22.2	15.3	9.8	5.5	3.8	3.8	3.8
-72.5°	19.6	13.7	8.8	5.4	3.8	3.8	3.8
-75°	17.1	11.9	7.6	5.3	3.8	3.8	3.8
-77.5°	14.4	10.0	7.2	5.3	3.8	3.8	3.8
-80°	11.7	9.0	7.0	5.2	3.8	3.8	3.8
-82.5°	10.6	8.5	6.7	5.1	3.8	3.8	3.8
-85°	9.6	7.9	6.4	5.0	3.8	3.8	3.8
-87.5°	8.7	7.3	6.1	4.9	3.8	3.8	3.8
-90°	3.8	3.8	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)