

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: P627486 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4E-722-U-MWR-VSR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627486 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/7/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4E-722-U-MWR-VSR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, MEDIUM WIDE SYMMETRICAL ROUND N5 WITH VISOR  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

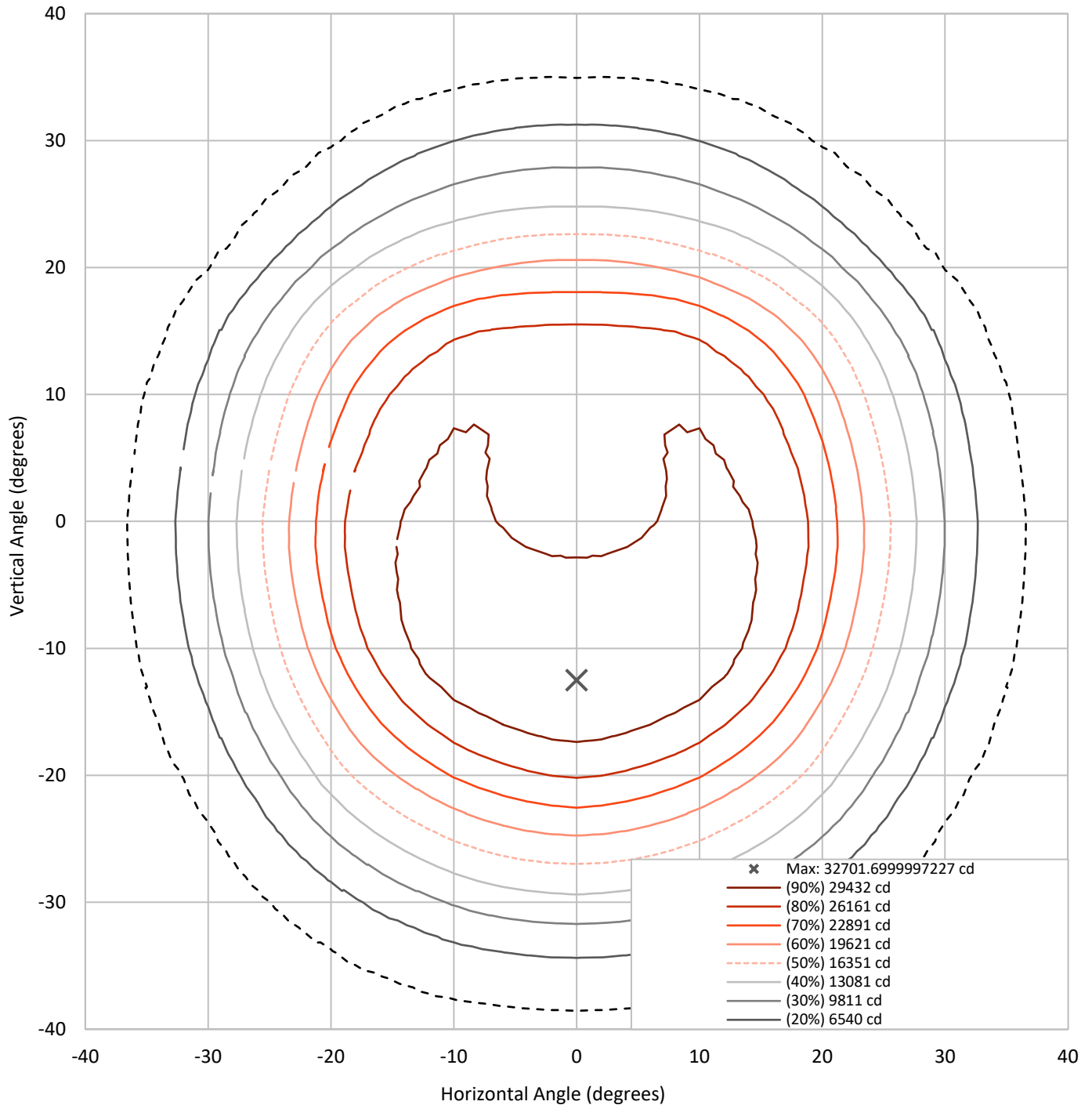
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 5V
Luminaire Lumens:	23341.9 lumens	Max Intensity:	32701.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x -12.5°V
Efficacy:	91.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	46.4°H x 49.6°V	Field Angle (10%):	69.9°H x 73.3°V
Beam Lumens:	15634.3 lumens	Field Lumens:	21050.3 lumens
Beam Efficiency:	67.0%	Field Efficiency:	90.2%
Input Watts (W):	255.9		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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### Iso-Candela Plot





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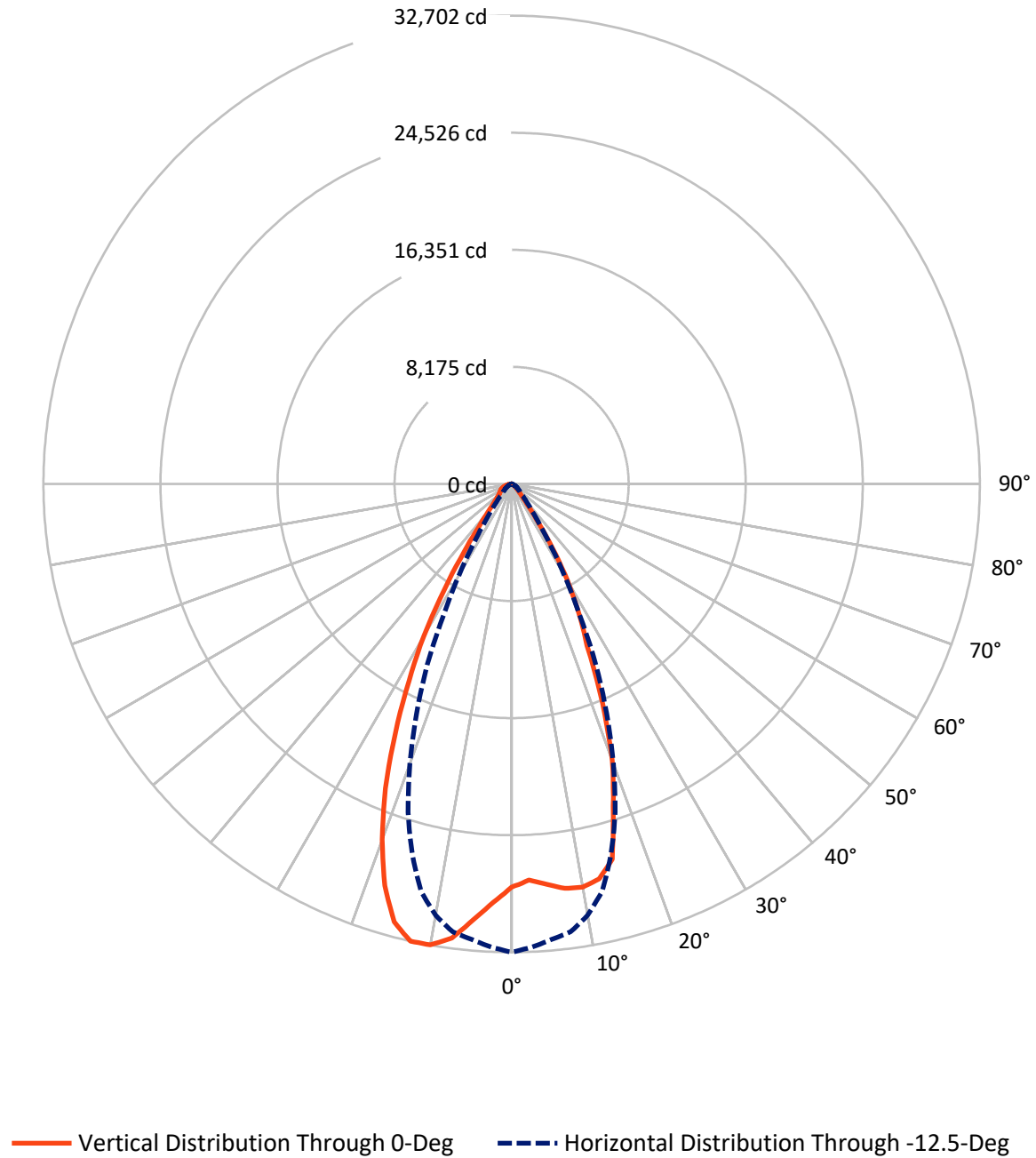
CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-XX

### Lumen Table

90																								
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
70																								
60	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0									
50		0.1	0.2	0.8	1.9	3.2	4.4	5.2	5.2	4.4	3.2	1.9	0.8	0.2		0.1								
40	0.1	0.1	0.9	3.3	6.6	10.7	16.0	19.6	19.6	16.0	10.7	6.6	3.3	0.9	0.1									
30		0.4	2.6	6.8	14.0	30.3	68.9	105.2	105.2	68.9	30.3	14.0	6.8	2.6	0.4									
20	0.3	0.9	4.4	10.9	29.3	108.5	279.4	390.6	390.6	279.4	108.5	29.3	10.9	4.4	0.9									
10		1.5	6.1	16.8	69.7	301.3	628.6	778.3	778.3	628.6	301.3	69.7	16.8	6.1	1.5									
0	0.5	2.0	7.5	21.7	111.0	443.7	810.5	878.7	878.7	810.5	443.7	111.0	21.7	7.5	2.0									
-10		2.4	8.3	23.3	116.1	458.3	839.7	932.6	932.6	839.7	458.3	116.1	23.3	8.3	2.4									
-20	0.7	2.6	8.4	21.1	83.1	341.2	708.4	904.5	904.5	708.4	341.2	83.1	21.1	8.4	2.6									
-30		2.5	8.0	17.6	46.4	165.5	394.7	555.4	555.4	394.7	165.5	46.4	17.6	8.0	2.5									
-40	0.6	2.2	7.2	14.6	27.7	59.0	123.3	183.0	183.0	123.3	59.0	27.7	14.6	7.2	2.2									
-50		1.8	6.0	12.2	20.2	29.9	42.1	49.9	49.9	42.1	29.9	20.2	12.2	6.0	1.8									
-60	0.4	1.4	4.5	9.6	15.9	22.0	27.5	30.1	30.1	27.5	22.0	15.9	9.6	4.5	1.4									
-70		0.9	2.9	6.5	11.2	15.8	20.0	22.3	22.3	20.0	15.8	11.2	6.5	2.9	0.9									
-80	0.2	2.6	11.7	25.0	32.1	25.0	11.7	2.6	0.2															
-90																								
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90					

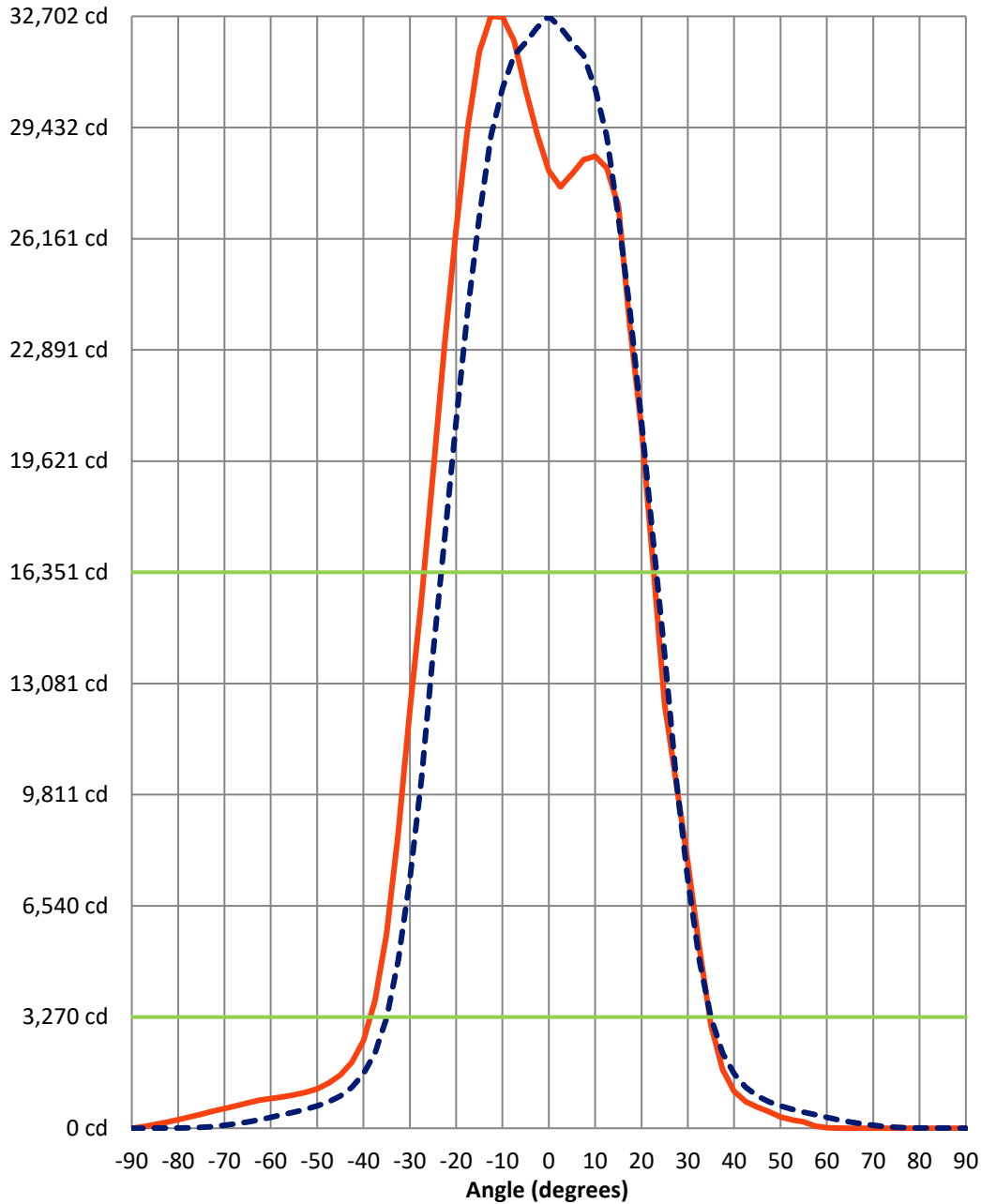
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 46.4°  
 V Angle: 49.6°  
 Lumens: 15634.3  
 Efficiency: 67.0%

**Field:**  
 H Angle: 69.9°  
 V Angle: 73.3°  
 Lumens: 21050.3  
 Efficiency: 90.2%

**Spill:**  
 Lumens: 2291.6  
 Efficiency: 9.8%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through -12.5-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°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	1	1	0	0	0	0	0
70°	0	0	0	0	1	1	0	0	0	0	0
67.5°	0	0	0	1	2	2	1	0	0	1	1
65°	0	0	0	1	2	2	1	0	1	2	2
62.5°	0	0	0	2	3	2	1	1	2	3	3
60°	0	0	0	2	3	2	1	2	4	4	5
57.5°	0	0	0	3	4	2	2	4	5	5	5
55°	0	0	1	3	4	3	3	5	5	5	5
52.5°	0	0	1	4	4	3	4	6	5	5	5
50°	0	0	2	5	4	3	5	6	5	5	6
47.5°	0	0	2	5	4	4	5	6	5	5	7
45°	0	0	2	5	4	4	6	7	6	7	9
42.5°	0	0	3	5	4	5	6	7	6	8	11
40°	0	0	3	5	5	5	7	7	7	10	13
37.5°	0	0	3	5	5	5	8	8	9	12	15
35°	0	0	3	5	5	6	8	8	11	15	20
32.5°	0	0	4	5	5	6	9	8	13	19	32
30°	0	0	4	5	5	7	9	9	15	23	43
27.5°	0	0	4	5	5	7	10	11	18	29	53
25°	0	0	4	5	5	8	10	12	22	36	62
22.5°	0	0	5	5	5	9	10	14	26	44	73
20°	0	0	5	5	5	9	11	16	30	51	85
17.5°	0	0	5	5	5	9	11	17	35	58	96
15°	0	0	5	5	5	10	12	20	40	64	108
12.5°	0	0	5	5	5	10	12	24	44	69	120
10°	0	0	5	5	5	10	13	28	48	77	130
7.5°	0	0	5	5	5	10	14	32	52	86	139
5°	0	0	5	5	5	11	15	36	54	96	146
2.5°	0	0	5	5	5	11	15	39	57	104	151
0°	0	0	5	5	5	11	16	43	59	113	155
-2.5°	0	0	5	5	6	11	19	44	67	118	164
-5°	0	0	5	5	6	12	22	46	74	122	171
-7.5°	0	0	5	5	7	12	24	47	80	126	177
-10°	0	0	5	5	7	13	26	47	85	129	182
-12.5°	0	1	5	5	7	13	28	48	89	132	185
-15°	0	1	5	5	8	13	29	49	90	133	187
-17.5°	0	1	5	5	8	14	30	50	89	133	187
-20°	0	1	5	5	8	14	30	52	88	133	184

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CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	1	5	5	8	14	31	54	87	131	180
-25°	0	1	5	5	8	15	31	54	85	128	173
-27.5°	0	1	5	5	8	16	30	54	83	124	169
-30°	0	1	5	5	8	16	30	53	82	121	164
-32.5°	0	1	5	5	8	17	29	52	81	117	157
-35°	0	1	5	5	9	17	29	51	79	114	150
-37.5°	0	1	5	5	9	18	29	49	75	110	147
-40°	0	1	4	5	9	18	30	47	71	105	145
-42.5°	0	1	4	6	9	18	29	45	67	100	140
-45°	0	1	4	6	10	18	29	43	64	94	133
-47.5°	0	1	4	6	10	17	28	42	61	87	125
-50°	0	1	4	6	10	17	27	40	58	83	116
-52.5°	0	1	5	6	10	16	26	38	56	79	105
-55°	0	1	5	6	10	16	25	36	53	74	99
-57.5°	0	1	5	7	10	15	24	34	50	69	92
-60°	0	1	5	7	9	15	22	32	46	64	85
-62.5°	0	1	4	7	9	14	21	30	43	58	78
-65°	0	1	4	7	9	13	19	28	39	53	70
-67.5°	0	1	4	7	9	12	18	25	35	47	62
-70°	0	1	3	7	9	12	15	22	30	40	53
-72.5°	0	1	3	6	8	11	14	19	26	35	44
-75°	0	1	3	5	8	10	13	17	21	28	37
-77.5°	0	1	2	4	7	10	12	15	19	23	28
-80°	0	0	2	3	6	8	11	13	16	19	23
-82.5°	0	0	1	3	4	6	8	11	14	16	19
-85°	0	0	1	2	3	4	6	7	9	11	14
-87.5°	0	0	0	1	1	2	3	4	5	6	7
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P627486 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	1	0	0	0	0	0	0	0	0
67.5°	0	2	2	1	0	0	0	0	0	0	0
65°	3	4	3	1	0	1	2	1	0	0	0
62.5°	5	4	3	2	3	4	3	2	1	1	2
60°	5	5	4	4	5	5	4	4	4	5	13
57.5°	5	5	5	6	6	6	7	8	19	32	36
55°	6	5	6	7	8	9	14	30	45	55	60
52.5°	6	6	8	10	12	20	37	55	69	80	94
50°	7	9	11	15	24	42	62	82	100	118	138
47.5°	9	11	16	23	43	67	92	117	138	162	192
45°	11	17	23	41	66	96	127	155	177	205	231
42.5°	14	26	39	59	94	130	164	187	212	243	277
40°	22	37	56	86	124	167	197	222	248	291	333
37.5°	33	52	75	114	159	200	230	260	299	348	398
35°	45	66	100	143	194	232	265	302	355	412	472
32.5°	57	79	124	174	221	262	299	354	410	472	554
30°	69	100	148	202	247	289	342	403	459	535	631
27.5°	82	120	173	226	271	316	384	444	508	594	710
25°	95	142	196	247	294	350	426	489	554	665	820
22.5°	112	163	218	267	316	387	468	546	632	742	934
20°	130	182	238	291	338	422	513	609	725	879	1130
17.5°	146	200	258	315	373	460	561	675	820	1010	1379
15°	161	216	277	338	407	498	610	750	925	1162	1621
12.5°	175	230	295	362	437	533	652	805	1011	1353	1929
10°	187	243	313	384	463	564	689	851	1082	1489	2160
7.5°	197	256	329	405	486	591	721	889	1144	1597	2339
5°	206	272	343	421	503	613	747	918	1197	1676	2478
2.5°	214	287	355	434	516	630	768	945	1247	1741	2595
0°	220	300	365	445	525	643	783	965	1287	1785	2686
-2.5°	227	307	377	453	540	653	790	980	1300	1792	2668
-5°	234	312	388	459	552	658	792	985	1298	1778	2613
-7.5°	239	315	395	465	559	661	793	982	1284	1748	2524
-10°	243	318	398	471	560	661	789	970	1254	1690	2389
-12.5°	248	321	399	474	560	657	778	948	1206	1604	2217
-15°	251	323	398	473	557	650	762	918	1142	1489	2002
-17.5°	253	324	397	469	553	639	739	882	1083	1388	1849
-20°	252	323	394	461	546	628	724	853	1033	1291	1663

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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°	250	320	391	455	536	617	706	820	970	1181	1482
-25°	245	316	386	451	524	604	683	783	914	1101	1351
-27.5°	236	310	378	444	511	588	663	753	868	1012	1212
-30°	225	301	368	434	500	572	644	720	821	946	1107
-32.5°	213	291	356	421	487	555	623	694	780	884	1010
-35°	205	278	344	405	471	537	602	668	739	831	939
-37.5°	200	265	332	390	452	516	579	642	707	780	878
-40°	193	251	318	376	432	494	555	614	675	748	823
-42.5°	185	242	303	362	415	472	530	587	648	715	786
-45°	178	230	288	343	397	450	506	560	619	683	748
-47.5°	167	217	273	321	374	428	482	535	587	646	709
-50°	155	202	253	300	347	400	454	508	559	609	664
-52.5°	143	185	233	279	322	367	422	476	528	578	626
-55°	129	168	212	257	300	339	387	442	493	542	592
-57.5°	119	151	191	234	277	317	361	408	458	505	553
-60°	109	136	170	210	252	292	334	378	423	469	512
-62.5°	99	122	150	183	222	263	302	343	386	425	464
-65°	89	108	131	159	190	227	265	304	343	378	411
-67.5°	79	96	114	135	162	193	224	259	295	329	360
-70°	68	83	99	116	136	161	190	218	247	277	307
-72.5°	57	70	83	98	116	137	159	182	207	233	259
-75°	46	57	68	81	96	113	131	151	171	191	213
-77.5°	37	45	55	64	76	89	104	119	135	152	168
-80°	28	34	42	50	59	68	78	89	101	114	128
-82.5°	22	27	31	37	42	49	55	63	72	82	92
-85°	16	19	21	24	28	32	36	40	46	52	58
-87.5°	8	9	11	12	14	15	17	19	22	25	28
-90°	0	0	0	0	0	0	0	0	0	0	0



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**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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	2	2	2	2	1	1	3	4	4	4	4
60°	14	10	14	17	17	13	19	22	20	16	17
57.5°	37	41	46	54	60	63	68	74	78	80	83
55°	69	83	97	104	115	133	148	149	152	156	165
52.5°	110	126	134	147	169	184	191	203	217	229	241
50°	160	174	190	210	232	246	251	273	300	322	335
47.5°	210	229	258	294	313	329	351	379	409	441	465
45°	257	290	327	359	384	412	442	477	523	567	600
42.5°	310	347	385	422	450	496	548	589	656	715	752
40°	372	409	463	509	565	623	714	798	882	980	1051
37.5°	447	503	579	653	737	823	985	1150	1286	1476	1581
35°	536	623	731	841	976	1183	1419	1739	2071	2348	2615
32.5°	640	751	900	1097	1322	1655	2010	2599	3173	3746	4309
30°	741	903	1131	1402	1772	2299	2968	3878	4864	5727	6509
27.5°	876	1106	1402	1807	2437	3209	4444	5708	6963	8084	8889
25°	1040	1348	1767	2437	3346	4627	6282	7832	9305	10404	11330
22.5°	1277	1739	2333	3186	4836	6617	8598	10548	12203	13588	14500
20°	1570	2194	3188	4735	6675	8903	11453	13503	15541	17099	18491
17.5°	1984	2978	4382	6346	8665	11636	14261	16548	19136	20729	22148
15°	2357	3635	5636	8142	10859	14008	17104	19905	22403	24153	25740
12.5°	2828	4333	6633	9581	12552	16058	19277	22275	24722	26523	27633
10°	3250	5048	7629	10712	14038	17701	21036	24158	26528	27920	28737
7.5°	3591	5642	8436	11680	15192	18878	22402	25500	27768	28932	29490
5°	3855	6083	9067	12473	16121	19893	23489	26522	28432	29394	29706
2.5°	4053	6390	9493	12996	16749	20642	24314	27303	28932	29627	29730
0°	4188	6606	9769	13324	17286	20911	24761	27796	29345	29903	29956
-2.5°	4156	6528	9757	13205	17225	21032	24832	27827	29485	30235	30356
-5°	4071	6344	9433	12867	16735	20548	24172	27334	29370	30501	31002
-7.5°	3908	6027	8880	12222	15941	19758	23453	26735	29077	30669	31649
-10°	3630	5563	8172	11405	15070	18707	22361	25766	28288	30205	31571
-12.5°	3251	4934	7309	10248	13932	17328	20788	24050	26803	29166	30578
-15°	2860	4279	6412	9101	12309	15653	18849	22050	24768	26978	28738
-17.5°	2580	3705	5374	7727	10543	13716	16834	19775	22227	24305	26151
-20°	2227	3063	4384	6362	8842	11615	14603	17220	19410	21358	23122



REPORT NUMBER: P627486 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1947	2623	3577	4927	7155	9601	12044	14454	16512	18247	19753
-25°	1691	2166	2912	4010	5458	7571	9629	11664	13565	15177	16534
-27.5°	1491	1869	2366	3147	4247	5479	7283	8984	10618	12093	13371
-30°	1309	1592	1981	2470	3217	4133	5218	6490	7793	8957	10119
-32.5°	1178	1379	1647	2010	2428	3084	3740	4595	5420	6269	7103
-35°	1061	1223	1404	1647	1934	2317	2749	3272	3713	4269	4781
-37.5°	980	1094	1233	1386	1592	1805	2098	2415	2689	2998	3259
-40°	913	1003	1097	1200	1341	1485	1674	1853	2026	2215	2356
-42.5°	857	929	997	1077	1160	1276	1403	1514	1619	1730	1822
-45°	813	867	921	983	1047	1130	1220	1303	1372	1434	1484
-47.5°	766	814	862	910	964	1025	1084	1137	1194	1242	1277
-50°	719	767	811	852	899	947	993	1036	1076	1112	1134
-52.5°	674	723	766	804	844	883	922	960	995	1027	1042
-55°	640	685	728	763	796	829	863	900	933	963	973
-57.5°	601	648	690	721	752	782	814	847	879	907	917
-60°	558	607	643	673	704	737	767	797	826	851	861
-62.5°	506	549	583	613	641	667	700	732	763	788	803
-65°	445	482	514	544	571	597	628	657	685	707	723
-67.5°	391	420	447	473	500	526	555	582	608	628	640
-70°	337	364	390	414	438	461	484	507	530	546	559
-72.5°	285	308	330	352	374	394	414	434	453	468	480
-75°	235	255	274	293	311	327	343	358	373	385	396
-77.5°	185	202	218	234	249	262	274	286	297	308	318
-80°	142	154	166	177	189	199	208	217	226	234	242
-82.5°	102	110	117	125	133	140	147	153	159	165	171
-85°	65	69	73	78	82	86	90	94	98	102	105
-87.5°	31	33	35	37	39	41	43	45	47	48	50
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627486 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	5	5	5	5	5	5	5	4	4	4	4
60°	17	16	16	16	16	16	17	17	16	20	22
57.5°	81	75	70	64	70	75	81	83	80	78	74
55°	175	185	189	188	189	185	175	165	156	152	149
52.5°	249	254	252	247	252	254	249	241	229	217	203
50°	340	341	338	332	338	341	340	335	322	300	273
47.5°	478	485	489	488	489	485	478	465	441	409	379
45°	613	620	623	622	623	620	613	600	567	523	477
42.5°	771	783	787	783	787	783	771	752	715	656	589
40°	1093	1106	1100	1083	1100	1106	1093	1051	980	882	798
37.5°	1655	1709	1731	1732	1731	1709	1655	1581	1476	1286	1150
35°	2855	3046	3134	3024	3134	3046	2855	2615	2348	2071	1739
32.5°	4768	5107	5298	5298	5298	5107	4768	4309	3746	3173	2599
30°	7099	7523	7762	7812	7762	7523	7099	6509	5727	4864	3878
27.5°	9517	9955	10183	10150	10183	9955	9517	8889	8084	6963	5708
25°	11943	12275	12466	12472	12466	12275	11943	11330	10404	9305	7832
22.5°	15527	16225	16513	16590	16513	16225	15527	14500	13588	12203	10548
20°	19433	20110	20547	20573	20547	20110	19433	18491	17099	15541	13503
17.5°	23155	23491	23553	23581	23553	23491	23155	22148	20729	19136	16548
15°	26664	26782	27092	27131	27092	26782	26664	25740	24153	22403	19905
12.5°	28330	28438	28385	28241	28385	28438	28330	27633	26523	24722	22275
10°	29239	29087	28861	28589	28861	29087	29239	28737	27920	26528	24158
7.5°	29444	29276	28877	28482	28877	29276	29444	29490	28932	27768	25500
5°	29542	29047	28544	28064	28544	29047	29542	29706	29394	28432	26522
2.5°	29484	28895	28204	27688	28204	28895	29484	29730	29627	28932	27303
0°	29672	29077	28353	28160	28353	29077	29672	29956	29903	29345	27796
-2.5°	30196	29714	29336	29233	29336	29714	30196	30356	30235	29485	27827
-5°	31138	31032	30390	30541	30390	31032	31138	31002	30501	29370	27334
-7.5°	32049	31898	31626	31978	31626	31898	32049	31649	30669	29077	26735
-10°	32291	32241	32368	32680	32368	32241	32291	31571	30205	28288	25766
-12.5°	31549	31938	32373	32702	32373	31938	31549	30578	29166	26803	24050
-15°	29895	30690	31341	31651	31341	30690	29895	28738	26978	24768	22050
-17.5°	27458	28433	29206	29426	29206	28433	27458	26151	24305	22227	19775
-20°	24459	25451	26153	26434	26153	25451	24459	23122	21358	19410	17220

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CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	21083	22051	22688	23024	22688	22051	21083	19753	18247	16512	14454
-25°	17657	18508	19073	19222	19073	18508	17657	16534	15177	13565	11664
-27.5°	14381	15065	15482	15528	15482	15065	14381	13371	12093	10618	8984
-30°	11085	11721	12082	12273	12082	11721	11085	10119	8957	7793	6490
-32.5°	7785	8289	8595	8675	8595	8289	7785	7103	6269	5420	4595
-35°	5191	5504	5698	5737	5698	5504	5191	4781	4269	3713	3272
-37.5°	3471	3624	3718	3764	3718	3624	3471	3259	2998	2689	2415
-40°	2459	2531	2571	2579	2571	2531	2459	2356	2215	2026	1853
-42.5°	1881	1917	1936	1941	1936	1917	1881	1822	1730	1619	1514
-45°	1520	1545	1561	1566	1561	1545	1520	1484	1434	1372	1303
-47.5°	1300	1316	1326	1330	1326	1316	1300	1277	1242	1194	1137
-50°	1147	1156	1160	1158	1160	1156	1147	1134	1112	1076	1036
-52.5°	1050	1057	1058	1056	1058	1057	1050	1042	1027	995	960
-55°	979	983	984	981	984	983	979	973	963	933	900
-57.5°	924	929	928	922	928	929	924	917	907	879	847
-60°	870	876	876	874	876	876	870	861	851	826	797
-62.5°	816	826	828	826	828	826	816	803	788	763	732
-65°	737	751	750	745	750	751	737	723	707	685	657
-67.5°	652	661	662	660	662	661	652	640	628	608	582
-70°	571	581	581	579	581	581	571	559	546	530	507
-72.5°	491	501	503	504	503	501	491	480	468	453	434
-75°	407	416	415	413	415	416	407	396	385	373	358
-77.5°	327	336	335	332	335	336	327	318	308	297	286
-80°	249	256	254	252	254	256	249	242	234	226	217
-82.5°	176	181	179	177	179	181	176	171	165	159	153
-85°	109	112	112	113	112	112	109	105	102	98	94
-87.5°	52	53	51	48	51	53	52	50	48	47	45
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627486 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	1
62.5°	3	1	1	2	2	2	2	2	1	1	2
60°	19	13	17	17	14	10	14	13	5	4	4
57.5°	68	63	60	54	46	41	37	36	32	19	8
55°	148	133	115	104	97	83	69	60	55	45	30
52.5°	191	184	169	147	134	126	110	94	80	69	55
50°	251	246	232	210	190	174	160	138	118	100	82
47.5°	351	329	313	294	258	229	210	192	162	138	117
45°	442	412	384	359	327	290	257	231	205	177	155
42.5°	548	496	450	422	385	347	310	277	243	212	187
40°	714	623	565	509	463	409	372	333	291	248	222
37.5°	985	823	737	653	579	503	447	398	348	299	260
35°	1419	1183	976	841	731	623	536	472	412	355	302
32.5°	2010	1655	1322	1097	900	751	640	554	472	410	354
30°	2968	2299	1772	1402	1131	903	741	631	535	459	403
27.5°	4444	3209	2437	1807	1402	1106	876	710	594	508	444
25°	6282	4627	3346	2437	1767	1348	1040	820	665	554	489
22.5°	8598	6617	4836	3186	2333	1739	1277	934	742	632	546
20°	11453	8903	6675	4735	3188	2194	1570	1130	879	725	609
17.5°	14261	11636	8665	6346	4382	2978	1984	1379	1010	820	675
15°	17104	14008	10859	8142	5636	3635	2357	1621	1162	925	750
12.5°	19277	16058	12552	9581	6633	4333	2828	1929	1353	1011	805
10°	21036	17701	14038	10712	7629	5048	3250	2160	1489	1082	851
7.5°	22402	18878	15192	11680	8436	5642	3591	2339	1597	1144	889
5°	23489	19893	16121	12473	9067	6083	3855	2478	1676	1197	918
2.5°	24314	20642	16749	12996	9493	6390	4053	2595	1741	1247	945
0°	24761	20911	17286	13324	9769	6606	4188	2686	1785	1287	965
-2.5°	24832	21032	17225	13205	9757	6528	4156	2668	1792	1300	980
-5°	24172	20548	16735	12867	9433	6344	4071	2613	1778	1298	985
-7.5°	23453	19758	15941	12222	8880	6027	3908	2524	1748	1284	982
-10°	22361	18707	15070	11405	8172	5563	3630	2389	1690	1254	970
-12.5°	20788	17328	13932	10248	7309	4934	3251	2217	1604	1206	948
-15°	18849	15653	12309	9101	6412	4279	2860	2002	1489	1142	918
-17.5°	16834	13716	10543	7727	5374	3705	2580	1849	1388	1083	882
-20°	14603	11615	8842	6362	4384	3063	2227	1663	1291	1033	853

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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°	12044	9601	7155	4927	3577	2623	1947	1482	1181	970	820
-25°	9629	7571	5458	4010	2912	2166	1691	1351	1101	914	783
-27.5°	7283	5479	4247	3147	2366	1869	1491	1212	1012	868	753
-30°	5218	4133	3217	2470	1981	1592	1309	1107	946	821	720
-32.5°	3740	3084	2428	2010	1647	1379	1178	1010	884	780	694
-35°	2749	2317	1934	1647	1404	1223	1061	939	831	739	668
-37.5°	2098	1805	1592	1386	1233	1094	980	878	780	707	642
-40°	1674	1485	1341	1200	1097	1003	913	823	748	675	614
-42.5°	1403	1276	1160	1077	997	929	857	786	715	648	587
-45°	1220	1130	1047	983	921	867	813	748	683	619	560
-47.5°	1084	1025	964	910	862	814	766	709	646	587	535
-50°	993	947	899	852	811	767	719	664	609	559	508
-52.5°	922	883	844	804	766	723	674	626	578	528	476
-55°	863	829	796	763	728	685	640	592	542	493	442
-57.5°	814	782	752	721	690	648	601	553	505	458	408
-60°	767	737	704	673	643	607	558	512	469	423	378
-62.5°	700	667	641	613	583	549	506	464	425	386	343
-65°	628	597	571	544	514	482	445	411	378	343	304
-67.5°	555	526	500	473	447	420	391	360	329	295	259
-70°	484	461	438	414	390	364	337	307	277	247	218
-72.5°	414	394	374	352	330	308	285	259	233	207	182
-75°	343	327	311	293	274	255	235	213	191	171	151
-77.5°	274	262	249	234	218	202	185	168	152	135	119
-80°	208	199	189	177	166	154	142	128	114	101	89
-82.5°	147	140	133	125	117	110	102	92	82	72	63
-85°	90	86	82	78	73	69	65	58	52	46	40
-87.5°	43	41	39	37	35	33	31	28	25	22	19
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P627486 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-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
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	1	0	0	0	0	0	0
67.5°	0	0	0	1	2	2	0	1	1	0	0
65°	2	1	0	1	3	4	3	2	2	1	0
62.5°	3	4	3	2	3	4	5	3	3	2	1
60°	4	5	5	4	4	5	5	5	4	4	2
57.5°	7	6	6	6	5	5	5	5	5	5	4
55°	14	9	8	7	6	5	6	5	5	5	5
52.5°	37	20	12	10	8	6	6	5	5	5	6
50°	62	42	24	15	11	9	7	6	5	5	6
47.5°	92	67	43	23	16	11	9	7	5	5	6
45°	127	96	66	41	23	17	11	9	7	6	7
42.5°	164	130	94	59	39	26	14	11	8	6	7
40°	197	167	124	86	56	37	22	13	10	7	7
37.5°	230	200	159	114	75	52	33	15	12	9	8
35°	265	232	194	143	100	66	45	20	15	11	8
32.5°	299	262	221	174	124	79	57	32	19	13	8
30°	342	289	247	202	148	100	69	43	23	15	9
27.5°	384	316	271	226	173	120	82	53	29	18	11
25°	426	350	294	247	196	142	95	62	36	22	12
22.5°	468	387	316	267	218	163	112	73	44	26	14
20°	513	422	338	291	238	182	130	85	51	30	16
17.5°	561	460	373	315	258	200	146	96	58	35	17
15°	610	498	407	338	277	216	161	108	64	40	20
12.5°	652	533	437	362	295	230	175	120	69	44	24
10°	689	564	463	384	313	243	187	130	77	48	28
7.5°	721	591	486	405	329	256	197	139	86	52	32
5°	747	613	503	421	343	272	206	146	96	54	36
2.5°	768	630	516	434	355	287	214	151	104	57	39
0°	783	643	525	445	365	300	220	155	113	59	43
-2.5°	790	653	540	453	377	307	227	164	118	67	44
-5°	792	658	552	459	388	312	234	171	122	74	46
-7.5°	793	661	559	465	395	315	239	177	126	80	47
-10°	789	661	560	471	398	318	243	182	129	85	47
-12.5°	778	657	560	474	399	321	248	185	132	89	48
-15°	762	650	557	473	398	323	251	187	133	90	49
-17.5°	739	639	553	469	397	324	253	187	133	89	50
-20°	724	628	546	461	394	323	252	184	133	88	52

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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°	706	617	536	455	391	320	250	180	131	87	54
-25°	683	604	524	451	386	316	245	173	128	85	54
-27.5°	663	588	511	444	378	310	236	169	124	83	54
-30°	644	572	500	434	368	301	225	164	121	82	53
-32.5°	623	555	487	421	356	291	213	157	117	81	52
-35°	602	537	471	405	344	278	205	150	114	79	51
-37.5°	579	516	452	390	332	265	200	147	110	75	49
-40°	555	494	432	376	318	251	193	145	105	71	47
-42.5°	530	472	415	362	303	242	185	140	100	67	45
-45°	506	450	397	343	288	230	178	133	94	64	43
-47.5°	482	428	374	321	273	217	167	125	87	61	42
-50°	454	400	347	300	253	202	155	116	83	58	40
-52.5°	422	367	322	279	233	185	143	105	79	56	38
-55°	387	339	300	257	212	168	129	99	74	53	36
-57.5°	361	317	277	234	191	151	119	92	69	50	34
-60°	334	292	252	210	170	136	109	85	64	46	32
-62.5°	302	263	222	183	150	122	99	78	58	43	30
-65°	265	227	190	159	131	108	89	70	53	39	28
-67.5°	224	193	162	135	114	96	79	62	47	35	25
-70°	190	161	136	116	99	83	68	53	40	30	22
-72.5°	159	137	116	98	83	70	57	44	35	26	19
-75°	131	113	96	81	68	57	46	37	28	21	17
-77.5°	104	89	76	64	55	45	37	28	23	19	15
-80°	78	68	59	50	42	34	28	23	19	16	13
-82.5°	55	49	42	37	31	27	22	19	16	14	11
-85°	36	32	28	24	21	19	16	14	11	9	7
-87.5°	17	15	14	12	11	9	8	7	6	5	4
-90°	0	0	0	0	0	0	0	0	0	0	0

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CATALOG NUMBER: GFLD-SA4E-722-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	1	1	0	0	0	0
70°	0	1	1	0	0	0	0
67.5°	1	2	2	1	0	0	0
65°	1	2	2	1	0	0	0
62.5°	1	2	3	2	0	0	0
60°	1	2	3	2	0	0	0
57.5°	2	2	4	3	0	0	0
55°	3	3	4	3	1	0	0
52.5°	4	3	4	4	1	0	0
50°	5	3	4	5	2	0	0
47.5°	5	4	4	5	2	0	0
45°	6	4	4	5	2	0	0
42.5°	6	5	4	5	3	0	0
40°	7	5	5	5	3	0	0
37.5°	8	5	5	5	3	0	0
35°	8	6	5	5	3	0	0
32.5°	9	6	5	5	4	0	0
30°	9	7	5	5	4	0	0
27.5°	10	7	5	5	4	0	0
25°	10	8	5	5	4	0	0
22.5°	10	9	5	5	5	0	0
20°	11	9	5	5	5	0	0
17.5°	11	9	5	5	5	0	0
15°	12	10	5	5	5	0	0
12.5°	12	10	5	5	5	0	0
10°	13	10	5	5	5	0	0
7.5°	14	10	5	5	5	0	0
5°	15	11	5	5	5	0	0
2.5°	15	11	5	5	5	0	0
0°	16	11	5	5	5	0	0
-2.5°	19	11	6	5	5	0	0
-5°	22	12	6	5	5	0	0
-7.5°	24	12	7	5	5	0	0
-10°	26	13	7	5	5	0	0
-12.5°	28	13	7	5	5	1	0
-15°	29	13	8	5	5	1	0
-17.5°	30	14	8	5	5	1	0
-20°	30	14	8	5	5	1	0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	31	14	8	5	5	1	0
-25°	31	15	8	5	5	1	0
-27.5°	30	16	8	5	5	1	0
-30°	30	16	8	5	5	1	0
-32.5°	29	17	8	5	5	1	0
-35°	29	17	9	5	5	1	0
-37.5°	29	18	9	5	5	1	0
-40°	30	18	9	5	4	1	0
-42.5°	29	18	9	6	4	1	0
-45°	29	18	10	6	4	1	0
-47.5°	28	17	10	6	4	1	0
-50°	27	17	10	6	4	1	0
-52.5°	26	16	10	6	5	1	0
-55°	25	16	10	6	5	1	0
-57.5°	24	15	10	7	5	1	0
-60°	22	15	9	7	5	1	0
-62.5°	21	14	9	7	4	1	0
-65°	19	13	9	7	4	1	0
-67.5°	18	12	9	7	4	1	0
-70°	15	12	9	7	3	1	0
-72.5°	14	11	8	6	3	1	0
-75°	13	10	8	5	3	1	0
-77.5°	12	10	7	4	2	1	0
-80°	11	8	6	3	2	0	0
-82.5°	8	6	4	3	1	0	0
-85°	6	4	3	2	1	0	0
-87.5°	3	2	1	1	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)