

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: P627516 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4E-735-U-MWR-VSR-XX**

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-08
Report Number: P627516 (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-735-U-MWR-VSR-XX
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, MEDIUM WIDE SYMMETRICAL ROUND N5 WITH VISOR
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

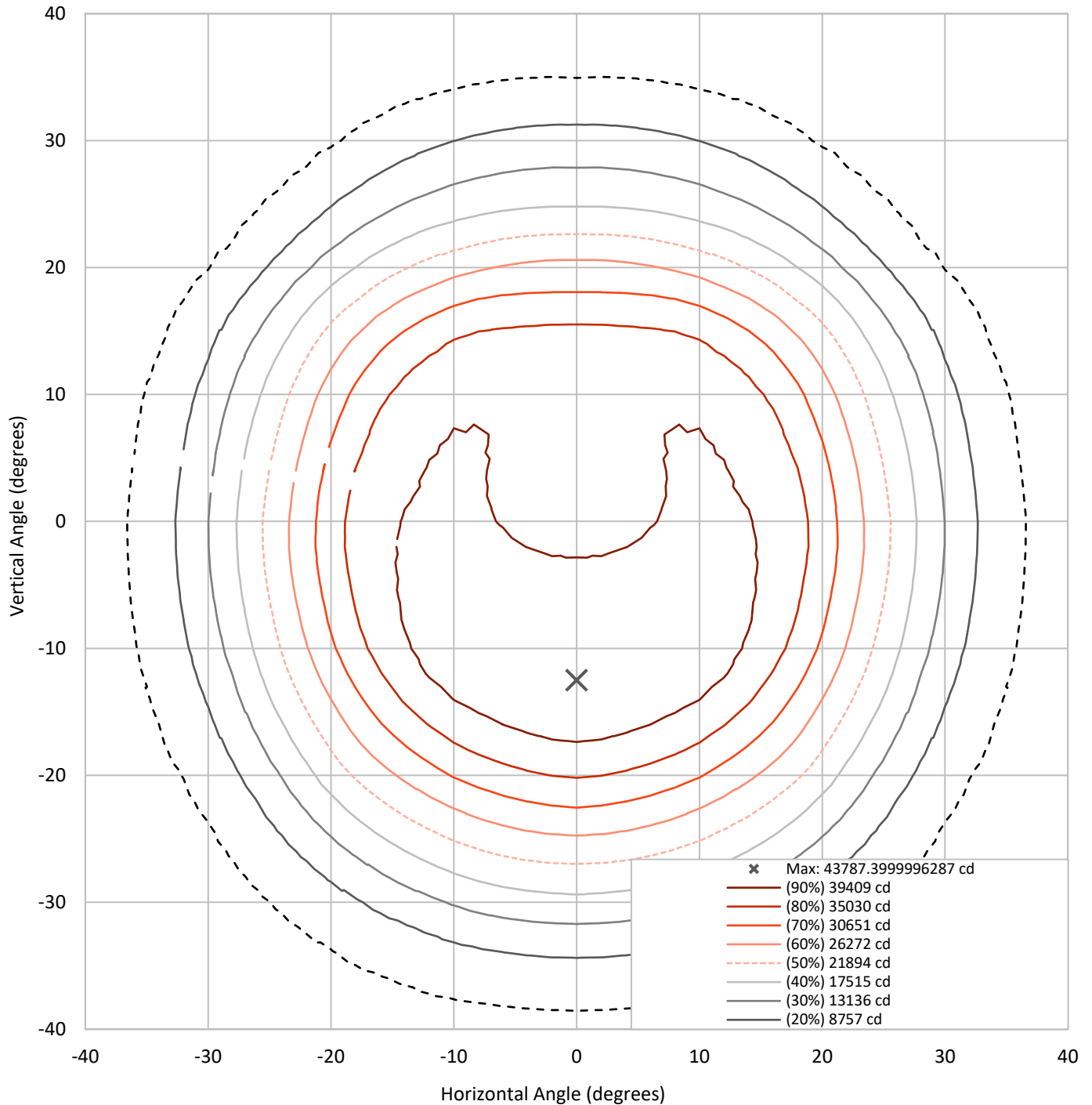
Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 5V
Luminaire Lumens:	31254.7 lumens	Max Intensity:	43787.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x -12.5°V
Efficacy:	122.1 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:	20934.3 lumens	Field Lumens:	28171.3 lumens
Beam Efficiency:	67.0%	Field Efficiency:	90.1%
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		



REPORT NUMBER: P627516 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA4E-735-U-MWR-VSR-XX

Iso-Candela Plot





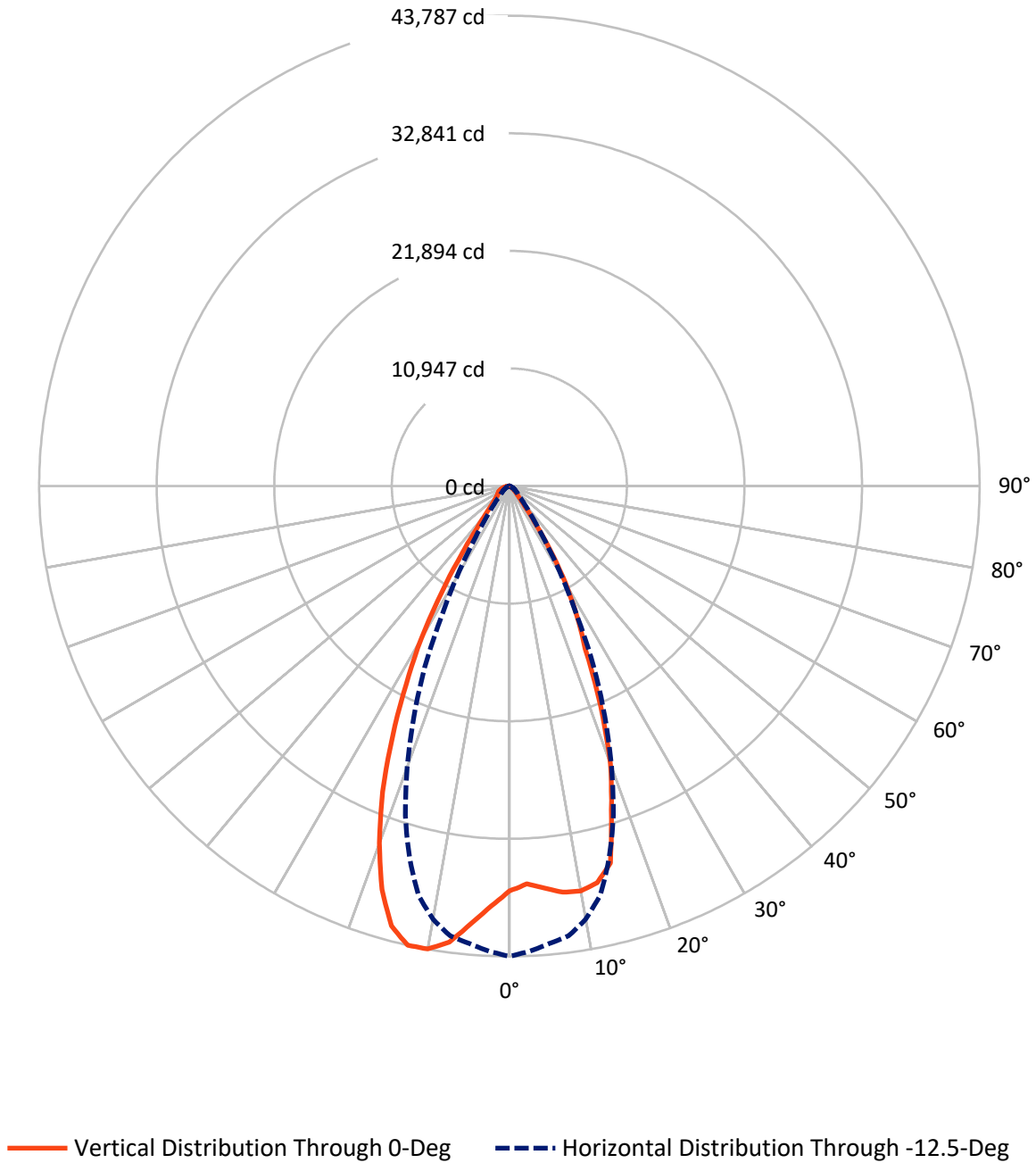
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Lumen Table

90																			
80	0.0	0.0		0.0		0.0		0.0		0.0		0.0		0.0					
70																			
60	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1				
50		0.1	0.2	1.0	2.5	4.3	6.0	6.9	6.9	6.0	4.3	2.5	1.0	0.2		0.1			
40	0.2	0.2	1.2	4.4	8.8	14.4	21.4	26.3	26.3	21.4	14.4	8.8	4.4	1.2	0.2	0.2			
30		0.6	3.5	9.1	18.8	40.6	92.3	140.9	140.9	92.3	40.6	18.8	9.1	3.5	0.6				
20	0.3	1.3	5.8	14.6	39.2	145.3	374.1	523.0	523.0	374.1	145.3	39.2	14.6	5.8	1.3	0.3			
10		2.1	8.2	22.6	93.3	403.5	841.7	1042.1	1042.1	841.7	403.5	93.3	22.6	8.2	2.1				
0	0.6	2.7	10.1	29.1	148.6	594.1	1085.2	1176.5	1176.5	1085.2	594.1	148.6	29.1	10.1	2.7	0.6			
-10		3.2	11.1	31.1	155.5	613.6	1124.3	1248.7	1248.7	1124.3	613.6	155.5	31.1	11.1	3.2				
-20	0.9	3.4	11.3	28.3	111.2	456.9	948.5	1211.1	1211.1	948.5	456.9	111.2	28.3	11.3	3.4	0.9			
-30		3.3	10.7	23.5	62.2	221.7	528.5	743.7	743.7	528.5	221.7	62.2	23.5	10.7	3.3				
-40	0.8	2.9	9.6	19.5	37.1	78.9	165.1	245.0	245.0	165.1	78.9	37.1	19.5	9.6	2.9	0.8			
-50		2.4	8.1	16.3	27.1	40.0	56.3	66.8	66.8	56.3	40.0	27.1	16.3	8.1	2.4				
-60	0.6	1.8	6.1	12.8	21.3	29.5	36.8	40.3	40.3	36.8	29.5	21.3	12.8	6.1	1.8	0.6			
-70		1.3	3.9	8.7	15.0	21.1	26.7	29.9	29.9	26.7	21.1	15.0	8.7	3.9	1.3				
-80	0.2	3.5		15.7		33.5		43.0		33.5		15.7		3.5		0.2			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

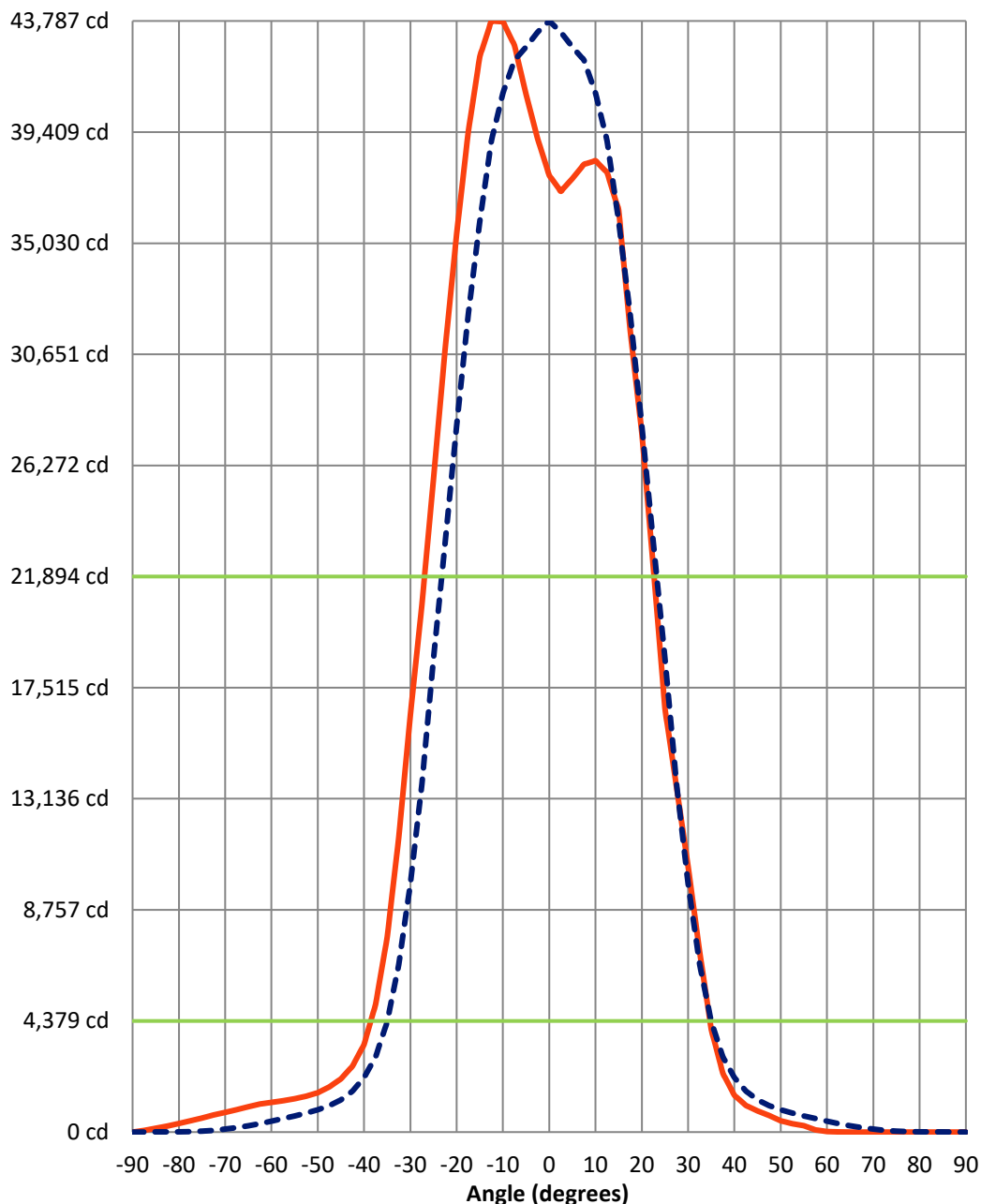
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 46.4°
 V Angle: 49.6°
 Lumens: 20934.3
 Efficiency: 67.0%

Field:
 H Angle: 69.9°
 V Angle: 73.3°
 Lumens: 28171.3
 Efficiency: 90.1%

Spill:
 Lumens: 3083.4
 Efficiency: 9.9%

— 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	1	0	0	0	0	0
72.5°	0	0	0	0	1	1	0	0	0	0	0
70°	0	0	0	0	1	2	1	0	0	0	0
67.5°	0	0	0	1	2	2	1	0	0	1	1
65°	0	0	0	2	3	3	1	0	2	2	2
62.5°	0	0	0	2	4	3	1	1	3	4	5
60°	0	0	0	3	5	3	1	3	5	5	7
57.5°	0	0	1	4	5	3	3	5	6	6	7
55°	0	0	1	5	5	3	4	7	7	7	7
52.5°	0	0	2	5	5	4	5	7	7	7	7
50°	0	0	2	6	5	5	6	8	7	7	8
47.5°	0	0	3	7	5	5	7	8	7	7	10
45°	0	0	3	7	6	6	8	9	8	9	12
42.5°	0	0	3	7	6	6	9	9	8	11	14
40°	0	0	4	7	6	7	9	10	9	13	17
37.5°	0	0	4	7	7	7	10	10	12	16	20
35°	0	0	5	7	7	8	11	11	14	20	27
32.5°	0	0	5	7	7	8	12	11	17	25	43
30°	0	0	5	7	7	9	13	12	20	31	58
27.5°	0	0	6	7	7	10	13	14	24	38	71
25°	0	0	6	7	7	11	13	17	29	48	83
22.5°	0	0	6	7	7	12	14	19	35	59	98
20°	0	0	6	7	7	12	14	21	41	69	114
17.5°	0	0	7	7	7	13	15	23	47	77	129
15°	0	0	7	7	7	13	16	27	53	85	145
12.5°	0	0	7	7	7	14	16	32	59	92	160
10°	0	0	7	7	7	14	17	37	65	103	175
7.5°	0	0	7	7	7	14	18	42	69	116	186
5°	0	0	7	7	7	14	19	48	73	128	195
2.5°	0	0	7	7	7	14	21	53	76	140	203
0°	0	0	7	7	7	14	21	57	79	151	208
-2.5°	0	0	7	7	8	15	25	59	89	158	219
-5°	0	0	7	7	8	16	29	61	99	163	229
-7.5°	0	0	7	7	9	16	32	62	107	168	237
-10°	0	1	7	7	10	17	35	63	114	173	243
-12.5°	0	1	7	7	10	17	37	64	119	176	248
-15°	0	1	7	7	10	18	39	65	121	178	250
-17.5°	0	1	7	7	11	18	40	68	120	178	250
-20°	0	1	7	7	11	18	41	70	118	178	247

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CATALOG NUMBER: GFLD-SA4E-735-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	7	7	11	19	41	72	116	175	241
-25°	0	1	6	7	11	20	41	73	114	171	232
-27.5°	0	1	6	7	11	21	41	73	111	167	226
-30°	0	2	6	7	11	22	40	71	110	162	219
-32.5°	0	2	6	7	11	23	39	70	108	157	211
-35°	0	2	6	7	12	23	39	68	105	152	200
-37.5°	0	2	6	7	12	24	40	66	101	147	197
-40°	0	2	6	7	12	24	40	63	95	141	194
-42.5°	0	2	6	7	12	24	39	60	90	134	188
-45°	0	2	6	8	13	24	38	58	86	126	179
-47.5°	0	2	6	8	13	23	37	56	82	116	167
-50°	0	2	6	8	13	23	36	54	78	111	155
-52.5°	0	2	6	8	13	22	35	51	74	105	141
-55°	0	2	6	9	13	21	34	48	71	98	133
-57.5°	0	2	6	9	13	21	32	46	66	92	123
-60°	0	2	6	9	12	20	30	44	62	86	113
-62.5°	0	1	6	9	12	19	28	41	57	78	104
-65°	0	1	6	9	12	17	26	37	52	71	94
-67.5°	0	1	5	9	12	16	23	34	46	63	83
-70°	0	1	5	9	12	15	21	30	41	54	71
-72.5°	0	1	4	8	11	15	19	25	35	46	59
-75°	0	1	4	7	11	14	18	22	28	38	49
-77.5°	0	1	3	6	9	13	16	20	25	30	38
-80°	0	1	2	5	7	11	14	18	22	26	31
-82.5°	0	0	2	3	6	8	11	14	18	21	25
-85°	0	0	1	2	4	5	7	10	12	15	18
-87.5°	0	0	1	1	2	3	4	5	6	8	9
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627516 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-735-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	1	0	0	0	0	0	0	0
67.5°	0	2	2	2	0	0	0	0	0	0	0
65°	4	5	4	2	0	2	2	2	0	0	0
62.5°	7	6	4	3	4	5	4	2	1	2	3
60°	7	6	5	6	7	6	5	5	6	7	17
57.5°	7	7	7	8	8	8	9	10	26	43	48
55°	7	7	8	10	11	12	19	40	60	74	80
52.5°	8	8	11	13	17	27	50	73	92	107	126
50°	9	12	15	20	32	56	84	110	134	157	185
47.5°	12	15	22	31	58	90	123	156	185	217	257
45°	15	23	31	55	89	128	170	207	237	274	310
42.5°	18	35	53	79	126	173	220	251	284	325	371
40°	30	49	75	116	166	223	264	297	332	389	446
37.5°	44	69	100	152	213	268	308	348	400	465	533
35°	60	88	133	192	259	310	355	404	476	551	631
32.5°	76	106	166	233	296	350	400	474	549	633	742
30°	92	133	198	271	330	387	457	539	614	716	845
27.5°	109	161	231	302	363	423	515	594	680	796	950
25°	128	190	262	331	394	469	570	655	742	890	1098
22.5°	150	218	292	358	423	518	627	732	847	994	1250
20°	174	244	319	389	452	565	687	816	971	1176	1513
17.5°	196	268	345	421	500	615	751	904	1097	1353	1847
15°	216	289	371	453	545	667	816	1004	1238	1556	2170
12.5°	234	308	396	484	585	714	873	1077	1354	1811	2583
10°	250	325	419	514	621	755	923	1139	1449	1994	2892
7.5°	264	343	441	543	651	791	966	1190	1532	2138	3133
5°	276	364	460	564	674	820	1001	1229	1602	2244	3318
2.5°	286	384	475	582	691	844	1028	1266	1670	2331	3475
0°	294	402	488	596	704	861	1048	1292	1723	2391	3597
-2.5°	305	411	505	607	724	874	1058	1312	1740	2399	3573
-5°	313	417	519	615	739	881	1060	1319	1738	2380	3499
-7.5°	320	421	529	622	748	885	1061	1315	1720	2341	3379
-10°	325	426	533	630	750	884	1056	1298	1679	2263	3199
-12.5°	332	430	534	634	750	879	1042	1270	1615	2148	2968
-15°	337	433	533	634	746	870	1020	1229	1529	1993	2681
-17.5°	339	433	531	628	740	856	989	1180	1450	1858	2476
-20°	338	432	528	618	731	841	969	1143	1384	1728	2227

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CATALOG NUMBER: GFLD-SA4E-735-U-MWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	335	429	523	609	717	826	945	1097	1299	1582	1985
-25°	328	424	517	603	701	808	914	1048	1224	1474	1809
-27.5°	317	415	506	594	684	787	888	1009	1163	1355	1623
-30°	301	403	493	581	669	766	862	964	1099	1267	1482
-32.5°	285	389	477	563	652	744	834	929	1045	1184	1352
-35°	274	372	461	543	630	719	806	894	989	1113	1258
-37.5°	268	354	445	522	605	691	775	859	947	1044	1175
-40°	259	336	426	503	578	662	743	823	904	1001	1102
-42.5°	248	323	406	485	555	632	710	786	868	958	1052
-45°	238	308	386	459	531	603	678	750	829	914	1001
-47.5°	224	291	365	430	501	573	645	717	787	866	950
-50°	208	271	339	402	464	536	608	680	749	816	889
-52.5°	192	247	312	374	431	491	565	638	707	774	838
-55°	173	225	284	344	402	454	518	592	660	725	792
-57.5°	159	203	256	314	370	425	484	546	613	676	741
-60°	146	182	227	281	337	391	448	506	567	628	686
-62.5°	132	164	201	245	297	352	405	459	517	569	621
-65°	120	145	176	213	254	304	355	407	459	506	550
-67.5°	106	128	153	181	217	258	299	347	395	440	482
-70°	91	111	132	156	182	216	254	292	331	370	412
-72.5°	76	93	112	131	155	183	212	243	277	311	346
-75°	62	76	92	108	128	151	175	202	229	256	285
-77.5°	49	61	73	86	101	119	139	160	181	203	225
-80°	38	46	56	67	78	91	105	119	135	153	171
-82.5°	30	36	42	49	57	65	74	84	97	110	123
-85°	21	25	29	33	37	42	48	54	61	70	78
-87.5°	11	13	14	16	19	21	23	25	29	33	37
-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	3	2	1	4	5	5	5	6
60°	19	14	18	23	23	17	26	29	27	22	22
57.5°	50	54	62	73	80	85	92	99	105	108	111
55°	92	111	130	139	154	178	199	200	204	209	221
52.5°	148	169	179	196	227	246	255	272	290	307	323
50°	215	233	254	282	311	330	336	366	401	431	448
47.5°	282	306	345	394	419	440	470	508	548	590	623
45°	344	388	438	481	515	551	592	639	701	759	804
42.5°	415	465	515	566	602	664	734	789	879	957	1006
40°	499	547	620	681	757	835	956	1068	1181	1312	1407
37.5°	598	674	776	874	986	1102	1319	1540	1721	1976	2117
35°	718	835	979	1127	1306	1584	1900	2329	2773	3144	3502
32.5°	856	1005	1205	1469	1770	2216	2691	3480	4248	5016	5770
30°	992	1209	1514	1877	2372	3078	3974	5192	6512	7669	8715
27.5°	1173	1481	1877	2420	3262	4297	5951	7643	9324	10825	11903
25°	1393	1805	2366	3263	4480	6195	8412	10487	12460	13931	15170
22.5°	1710	2328	3124	4267	6475	8860	11513	14124	16340	18194	19415
20°	2102	2938	4269	6340	8938	11921	15335	18080	20810	22896	24760
17.5°	2657	3988	5867	8498	11602	15580	19096	22158	25623	27755	29657
15°	3156	4867	7546	10902	14540	18756	22902	26652	29997	32341	34466
12.5°	3787	5802	8881	12829	16808	21501	25811	29827	33103	35514	37001
10°	4352	6759	10215	14343	18797	23701	28168	32347	35521	37385	38478
7.5°	4808	7555	11295	15639	20342	25277	29996	34144	37181	38740	39487
5°	5162	8145	12141	16702	21586	26636	31452	35512	38070	39359	39776
2.5°	5427	8556	12711	17401	22426	27640	32557	36558	38740	39670	39809
0°	5607	8845	13081	17841	23146	28000	33155	37218	39293	40040	40111
-2.5°	5565	8741	13065	17682	23064	28162	33250	37260	39481	40484	40647
-5°	5451	8495	12631	17229	22408	27513	32366	36601	39326	40841	41512
-7.5°	5233	8070	11891	16365	21345	26455	31404	35798	38933	41065	42378
-10°	4861	7449	10943	15271	20179	25048	29941	34501	37878	40444	42273
-12.5°	4353	6606	9787	13721	18656	23202	27834	32203	35889	39053	40943
-15°	3829	5729	8586	12186	16482	20959	25239	29525	33164	36123	38480
-17.5°	3455	4961	7195	10346	14118	18365	22541	26478	29762	32544	35016
-20°	2983	4101	5870	8519	11840	15553	19553	23057	25989	28598	30960

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REPORT NUMBER: P627516 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-735-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°	2606	3512	4790	6597	9580	12855	16127	19354	22110	24433	26449
-25°	2265	2900	3899	5369	7309	10137	12894	15618	18163	20322	22138
-27.5°	1996	2502	3168	4214	5686	7337	9752	12030	14218	16192	17904
-30°	1752	2131	2652	3307	4308	5534	6987	8690	10434	11993	13549
-32.5°	1577	1847	2205	2691	3251	4129	5007	6153	7258	8394	9510
-35°	1420	1637	1881	2205	2590	3102	3681	4381	4971	5716	6401
-37.5°	1312	1465	1651	1856	2131	2417	2809	3234	3600	4014	4363
-40°	1223	1343	1469	1607	1796	1989	2242	2481	2713	2966	3154
-42.5°	1148	1244	1335	1442	1553	1709	1878	2027	2168	2317	2440
-45°	1089	1160	1234	1317	1402	1514	1634	1745	1837	1920	1987
-47.5°	1025	1090	1154	1218	1291	1372	1451	1522	1599	1663	1710
-50°	963	1027	1085	1141	1204	1267	1330	1387	1441	1489	1518
-52.5°	902	968	1026	1077	1130	1182	1234	1285	1332	1375	1395
-55°	856	917	975	1021	1066	1110	1156	1204	1249	1290	1302
-57.5°	805	867	923	966	1007	1047	1089	1134	1177	1215	1227
-60°	747	812	861	901	943	987	1027	1067	1106	1140	1153
-62.5°	678	735	781	820	858	894	938	980	1021	1055	1075
-65°	595	645	689	729	765	800	841	880	917	947	968
-67.5°	523	562	598	633	669	705	743	779	815	840	857
-70°	451	488	522	555	586	617	648	679	709	732	749
-72.5°	381	413	442	471	500	528	555	581	607	626	643
-75°	315	342	367	392	416	438	459	479	499	516	531
-77.5°	248	270	292	313	334	351	367	383	398	412	425
-80°	190	206	222	237	253	267	279	291	302	313	324
-82.5°	136	147	157	168	178	188	196	205	213	221	229
-85°	87	93	98	104	110	115	121	126	131	136	141
-87.5°	41	44	47	49	52	55	57	60	62	65	67
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627516 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-735-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°	6	7	7	7	7	7	6	6	5	5	5
60°	22	21	21	22	21	21	22	22	22	27	29
57.5°	108	101	94	86	94	101	108	111	108	105	99
55°	235	248	253	251	253	248	235	221	209	204	200
52.5°	333	340	338	330	338	340	333	323	307	290	272
50°	455	456	452	445	452	456	455	448	431	401	366
47.5°	640	650	654	653	654	650	640	623	590	548	508
45°	821	830	834	833	834	830	821	804	759	701	639
42.5°	1033	1048	1054	1048	1054	1048	1033	1006	957	879	789
40°	1463	1481	1473	1450	1473	1481	1463	1407	1312	1181	1068
37.5°	2216	2288	2318	2319	2318	2288	2216	2117	1976	1721	1540
35°	3823	4079	4196	4049	4196	4079	3823	3502	3144	2773	2329
32.5°	6384	6838	7093	7093	7093	6838	6384	5770	5016	4248	3480
30°	9506	10074	10393	10460	10393	10074	9506	8715	7669	6512	5192
27.5°	12743	13330	13635	13591	13635	13330	12743	11903	10825	9324	7643
25°	15992	16436	16692	16699	16692	16436	15992	15170	13931	12460	10487
22.5°	20790	21725	22110	22213	22110	21725	20790	19415	18194	16340	14124
20°	26021	26928	27512	27548	27512	26928	26021	24760	22896	20810	18080
17.5°	31005	31455	31538	31575	31538	31455	31005	29657	27755	25623	22158
15°	35703	35860	36276	36328	36276	35860	35703	34466	32341	29997	26652
12.5°	37934	38079	38007	37814	38007	38079	37934	37001	35514	33103	29827
10°	39150	38947	38645	38281	38645	38947	39150	38478	37385	35521	32347
7.5°	39426	39200	38666	38137	38666	39200	39426	39487	38740	37181	34144
5°	39556	38894	38220	37577	38220	38894	39556	39776	39359	38070	35512
2.5°	39479	38691	37766	37075	37766	38691	39479	39809	39670	38740	36558
0°	39731	38934	37965	37706	37965	38934	39731	40111	40040	39293	37218
-2.5°	40432	39786	39280	39142	39280	39786	40432	40647	40484	39481	37260
-5°	41694	41552	40692	40894	40692	41552	41694	41512	40841	39326	36601
-7.5°	42913	42711	42347	42818	42347	42711	42913	42378	41065	38933	35798
-10°	43237	43171	43341	43759	43341	43171	43237	42273	40444	37878	34501
-12.5°	42244	42764	43348	43787	43348	42764	42244	40943	39053	35889	32203
-15°	40029	41094	41966	42380	41966	41094	40029	38480	36123	33164	29525
-17.5°	36766	38072	39106	39401	39106	38072	36766	35016	32544	29762	26478
-20°	32750	34078	35019	35395	35019	34078	32750	30960	28598	25989	23057



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	28230	29526	30379	30828	30379	29526	28230	26449	24433	22110	19354
-25°	23643	24782	25539	25738	25539	24782	23643	22138	20322	18163	15618
-27.5°	19256	20172	20730	20792	20730	20172	19256	17904	16192	14218	12030
-30°	14843	15694	16177	16434	16177	15694	14843	13549	11993	10434	8690
-32.5°	10424	11100	11509	11616	11509	11100	10424	9510	8394	7258	6153
-35°	6950	7370	7629	7682	7629	7370	6950	6401	5716	4971	4381
-37.5°	4647	4852	4978	5040	4978	4852	4647	4363	4014	3600	3234
-40°	3292	3388	3442	3453	3442	3388	3292	3154	2966	2713	2481
-42.5°	2518	2567	2592	2599	2592	2567	2518	2440	2317	2168	2027
-45°	2035	2069	2090	2096	2090	2069	2035	1987	1920	1837	1745
-47.5°	1741	1763	1776	1781	1776	1763	1741	1710	1663	1599	1522
-50°	1536	1548	1553	1551	1553	1548	1536	1518	1489	1441	1387
-52.5°	1406	1415	1417	1414	1417	1415	1406	1395	1375	1332	1285
-55°	1311	1317	1317	1314	1317	1317	1311	1302	1290	1249	1204
-57.5°	1237	1245	1242	1235	1242	1245	1237	1227	1215	1177	1134
-60°	1164	1173	1174	1170	1174	1173	1164	1153	1140	1106	1067
-62.5°	1092	1106	1108	1106	1108	1106	1092	1075	1055	1021	980
-65°	988	1005	1005	998	1005	1005	988	968	947	917	880
-67.5°	872	885	886	883	886	885	872	857	840	815	779
-70°	764	778	778	775	778	778	764	749	732	709	679
-72.5°	658	671	674	675	674	671	658	643	626	607	581
-75°	544	557	556	553	556	557	544	531	516	499	479
-77.5°	438	450	448	445	448	450	438	425	412	398	383
-80°	334	343	341	337	341	343	334	324	313	302	291
-82.5°	236	243	240	237	240	243	236	229	221	213	205
-85°	146	150	151	151	151	150	146	141	136	131	126
-87.5°	69	72	68	65	68	72	69	67	65	62	60
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627516 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA4E-735-U-MWR-VSR-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
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	2
62.5°	4	1	2	3	2	2	2	3	2	1	2
60°	26	17	23	23	18	14	19	17	7	6	5
57.5°	92	85	80	73	62	54	50	48	43	26	10
55°	199	178	154	139	130	111	92	80	74	60	40
52.5°	255	246	227	196	179	169	148	126	107	92	73
50°	336	330	311	282	254	233	215	185	157	134	110
47.5°	470	440	419	394	345	306	282	257	217	185	156
45°	592	551	515	481	438	388	344	310	274	237	207
42.5°	734	664	602	566	515	465	415	371	325	284	251
40°	956	835	757	681	620	547	499	446	389	332	297
37.5°	1319	1102	986	874	776	674	598	533	465	400	348
35°	1900	1584	1306	1127	979	835	718	631	551	476	404
32.5°	2691	2216	1770	1469	1205	1005	856	742	633	549	474
30°	3974	3078	2372	1877	1514	1209	992	845	716	614	539
27.5°	5951	4297	3262	2420	1877	1481	1173	950	796	680	594
25°	8412	6195	4480	3263	2366	1805	1393	1098	890	742	655
22.5°	11513	8860	6475	4267	3124	2328	1710	1250	994	847	732
20°	15335	11921	8938	6340	4269	2938	2102	1513	1176	971	816
17.5°	19096	15580	11602	8498	5867	3988	2657	1847	1353	1097	904
15°	22902	18756	14540	10902	7546	4867	3156	2170	1556	1238	1004
12.5°	25811	21501	16808	12829	8881	5802	3787	2583	1811	1354	1077
10°	28168	23701	18797	14343	10215	6759	4352	2892	1994	1449	1139
7.5°	29996	25277	20342	15639	11295	7555	4808	3133	2138	1532	1190
5°	31452	26636	21586	16702	12141	8145	5162	3318	2244	1602	1229
2.5°	32557	27640	22426	17401	12711	8556	5427	3475	2331	1670	1266
0°	33155	28000	23146	17841	13081	8845	5607	3597	2391	1723	1292
-2.5°	33250	28162	23064	17682	13065	8741	5565	3573	2399	1740	1312
-5°	32366	27513	22408	17229	12631	8495	5451	3499	2380	1738	1319
-7.5°	31404	26455	21345	16365	11891	8070	5233	3379	2341	1720	1315
-10°	29941	25048	20179	15271	10943	7449	4861	3199	2263	1679	1298
-12.5°	27834	23202	18656	13721	9787	6606	4353	2968	2148	1615	1270
-15°	25239	20959	16482	12186	8586	5729	3829	2681	1993	1529	1229
-17.5°	22541	18365	14118	10346	7195	4961	3455	2476	1858	1450	1180
-20°	19553	15553	11840	8519	5870	4101	2983	2227	1728	1384	1143

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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°	16127	12855	9580	6597	4790	3512	2606	1985	1582	1299	1097
-25°	12894	10137	7309	5369	3899	2900	2265	1809	1474	1224	1048
-27.5°	9752	7337	5686	4214	3168	2502	1996	1623	1355	1163	1009
-30°	6987	5534	4308	3307	2652	2131	1752	1482	1267	1099	964
-32.5°	5007	4129	3251	2691	2205	1847	1577	1352	1184	1045	929
-35°	3681	3102	2590	2205	1881	1637	1420	1258	1113	989	894
-37.5°	2809	2417	2131	1856	1651	1465	1312	1175	1044	947	859
-40°	2242	1989	1796	1607	1469	1343	1223	1102	1001	904	823
-42.5°	1878	1709	1553	1442	1335	1244	1148	1052	958	868	786
-45°	1634	1514	1402	1317	1234	1160	1089	1001	914	829	750
-47.5°	1451	1372	1291	1218	1154	1090	1025	950	866	787	717
-50°	1330	1267	1204	1141	1085	1027	963	889	816	749	680
-52.5°	1234	1182	1130	1077	1026	968	902	838	774	707	638
-55°	1156	1110	1066	1021	975	917	856	792	725	660	592
-57.5°	1089	1047	1007	966	923	867	805	741	676	613	546
-60°	1027	987	943	901	861	812	747	686	628	567	506
-62.5°	938	894	858	820	781	735	678	621	569	517	459
-65°	841	800	765	729	689	645	595	550	506	459	407
-67.5°	743	705	669	633	598	562	523	482	440	395	347
-70°	648	617	586	555	522	488	451	412	370	331	292
-72.5°	555	528	500	471	442	413	381	346	311	277	243
-75°	459	438	416	392	367	342	315	285	256	229	202
-77.5°	367	351	334	313	292	270	248	225	203	181	160
-80°	279	267	253	237	222	206	190	171	153	135	119
-82.5°	196	188	178	168	157	147	136	123	110	97	84
-85°	121	115	110	104	98	93	87	78	70	61	54
-87.5°	57	55	52	49	47	44	41	37	33	29	25
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627516 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4E-735-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	1	1	0	0	0	0	0	0
67.5°	0	0	0	2	2	2	0	1	1	0	0
65°	2	2	0	2	4	5	4	2	2	2	0
62.5°	4	5	4	3	4	6	7	5	4	3	1
60°	5	6	7	6	5	6	7	7	5	5	3
57.5°	9	8	8	8	7	7	7	7	6	6	5
55°	19	12	11	10	8	7	7	7	7	7	7
52.5°	50	27	17	13	11	8	8	7	7	7	7
50°	84	56	32	20	15	12	9	8	7	7	8
47.5°	123	90	58	31	22	15	12	10	7	7	8
45°	170	128	89	55	31	23	15	12	9	8	9
42.5°	220	173	126	79	53	35	18	14	11	8	9
40°	264	223	166	116	75	49	30	17	13	9	10
37.5°	308	268	213	152	100	69	44	20	16	12	10
35°	355	310	259	192	133	88	60	27	20	14	11
32.5°	400	350	296	233	166	106	76	43	25	17	11
30°	457	387	330	271	198	133	92	58	31	20	12
27.5°	515	423	363	302	231	161	109	71	38	24	14
25°	570	469	394	331	262	190	128	83	48	29	17
22.5°	627	518	423	358	292	218	150	98	59	35	19
20°	687	565	452	389	319	244	174	114	69	41	21
17.5°	751	615	500	421	345	268	196	129	77	47	23
15°	816	667	545	453	371	289	216	145	85	53	27
12.5°	873	714	585	484	396	308	234	160	92	59	32
10°	923	755	621	514	419	325	250	175	103	65	37
7.5°	966	791	651	543	441	343	264	186	116	69	42
5°	1001	820	674	564	460	364	276	195	128	73	48
2.5°	1028	844	691	582	475	384	286	203	140	76	53
0°	1048	861	704	596	488	402	294	208	151	79	57
-2.5°	1058	874	724	607	505	411	305	219	158	89	59
-5°	1060	881	739	615	519	417	313	229	163	99	61
-7.5°	1061	885	748	622	529	421	320	237	168	107	62
-10°	1056	884	750	630	533	426	325	243	173	114	63
-12.5°	1042	879	750	634	534	430	332	248	176	119	64
-15°	1020	870	746	634	533	433	337	250	178	121	65
-17.5°	989	856	740	628	531	433	339	250	178	120	68
-20°	969	841	731	618	528	432	338	247	178	118	70

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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°	945	826	717	609	523	429	335	241	175	116	72
-25°	914	808	701	603	517	424	328	232	171	114	73
-27.5°	888	787	684	594	506	415	317	226	167	111	73
-30°	862	766	669	581	493	403	301	219	162	110	71
-32.5°	834	744	652	563	477	389	285	211	157	108	70
-35°	806	719	630	543	461	372	274	200	152	105	68
-37.5°	775	691	605	522	445	354	268	197	147	101	66
-40°	743	662	578	503	426	336	259	194	141	95	63
-42.5°	710	632	555	485	406	323	248	188	134	90	60
-45°	678	603	531	459	386	308	238	179	126	86	58
-47.5°	645	573	501	430	365	291	224	167	116	82	56
-50°	608	536	464	402	339	271	208	155	111	78	54
-52.5°	565	491	431	374	312	247	192	141	105	74	51
-55°	518	454	402	344	284	225	173	133	98	71	48
-57.5°	484	425	370	314	256	203	159	123	92	66	46
-60°	448	391	337	281	227	182	146	113	86	62	44
-62.5°	405	352	297	245	201	164	132	104	78	57	41
-65°	355	304	254	213	176	145	120	94	71	52	37
-67.5°	299	258	217	181	153	128	106	83	63	46	34
-70°	254	216	182	156	132	111	91	71	54	41	30
-72.5°	212	183	155	131	112	93	76	59	46	35	25
-75°	175	151	128	108	92	76	62	49	38	28	22
-77.5°	139	119	101	86	73	61	49	38	30	25	20
-80°	105	91	78	67	56	46	38	31	26	22	18
-82.5°	74	65	57	49	42	36	30	25	21	18	14
-85°	48	42	37	33	29	25	21	18	15	12	10
-87.5°	23	21	19	16	14	13	11	9	8	6	5
-90°	0	0	0	0	0	0	0	0	0	0	0

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CATALOG NUMBER: GFLD-SA4E-735-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	1	0	0	0	0	0
72.5°	0	1	1	0	0	0	0
70°	1	2	1	0	0	0	0
67.5°	1	2	2	1	0	0	0
65°	1	3	3	2	0	0	0
62.5°	1	3	4	2	0	0	0
60°	1	3	5	3	0	0	0
57.5°	3	3	5	4	1	0	0
55°	4	3	5	5	1	0	0
52.5°	5	4	5	5	2	0	0
50°	6	5	5	6	2	0	0
47.5°	7	5	5	7	3	0	0
45°	8	6	6	7	3	0	0
42.5°	9	6	6	7	3	0	0
40°	9	7	6	7	4	0	0
37.5°	10	7	7	7	4	0	0
35°	11	8	7	7	5	0	0
32.5°	12	8	7	7	5	0	0
30°	13	9	7	7	5	0	0
27.5°	13	10	7	7	6	0	0
25°	13	11	7	7	6	0	0
22.5°	14	12	7	7	6	0	0
20°	14	12	7	7	6	0	0
17.5°	15	13	7	7	7	0	0
15°	16	13	7	7	7	0	0
12.5°	16	14	7	7	7	0	0
10°	17	14	7	7	7	0	0
7.5°	18	14	7	7	7	0	0
5°	19	14	7	7	7	0	0
2.5°	21	14	7	7	7	0	0
0°	21	14	7	7	7	0	0
-2.5°	25	15	8	7	7	0	0
-5°	29	16	8	7	7	0	0
-7.5°	32	16	9	7	7	0	0
-10°	35	17	10	7	7	1	0
-12.5°	37	17	10	7	7	1	0
-15°	39	18	10	7	7	1	0
-17.5°	40	18	11	7	7	1	0
-20°	41	18	11	7	7	1	0

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CATALOG NUMBER: GFLD-SA4E-735-U-MWR-VSR-XX

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	41	19	11	7	7	1	0
-25°	41	20	11	7	6	1	0
-27.5°	41	21	11	7	6	1	0
-30°	40	22	11	7	6	2	0
-32.5°	39	23	11	7	6	2	0
-35°	39	23	12	7	6	2	0
-37.5°	40	24	12	7	6	2	0
-40°	40	24	12	7	6	2	0
-42.5°	39	24	12	7	6	2	0
-45°	38	24	13	8	6	2	0
-47.5°	37	23	13	8	6	2	0
-50°	36	23	13	8	6	2	0
-52.5°	35	22	13	8	6	2	0
-55°	34	21	13	9	6	2	0
-57.5°	32	21	13	9	6	2	0
-60°	30	20	12	9	6	2	0
-62.5°	28	19	12	9	6	1	0
-65°	26	17	12	9	6	1	0
-67.5°	23	16	12	9	5	1	0
-70°	21	15	12	9	5	1	0
-72.5°	19	15	11	8	4	1	0
-75°	18	14	11	7	4	1	0
-77.5°	16	13	9	6	3	1	0
-80°	14	11	7	5	2	1	0
-82.5°	11	8	6	3	2	0	0
-85°	7	5	4	2	1	0	0
-87.5°	4	3	2	1	1	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)