

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P627436 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA4D-727-U-MWR-VSR-XX

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P627436 (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: 5/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4D-727-U-MWR-VSR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, MEDIUM WIDE SYMMETRICAL ROUND N5 WITH VISOR  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23920.1 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')

NEMA Type: 4H x 5V  
Max Intensity: 33511.7 candela  
Max Intensity Angle: 0°H x -12.5°V

Beam Angle (50%): 46.4°H x 49.6°V  
Beam Lumens: 16021.6 lumens  
Beam Efficiency: 67.0%

Field Angle (10%): 69.9°H x 73.3°V  
Field Lumens: 21560.3 lumens  
Field Efficiency: 90.1%

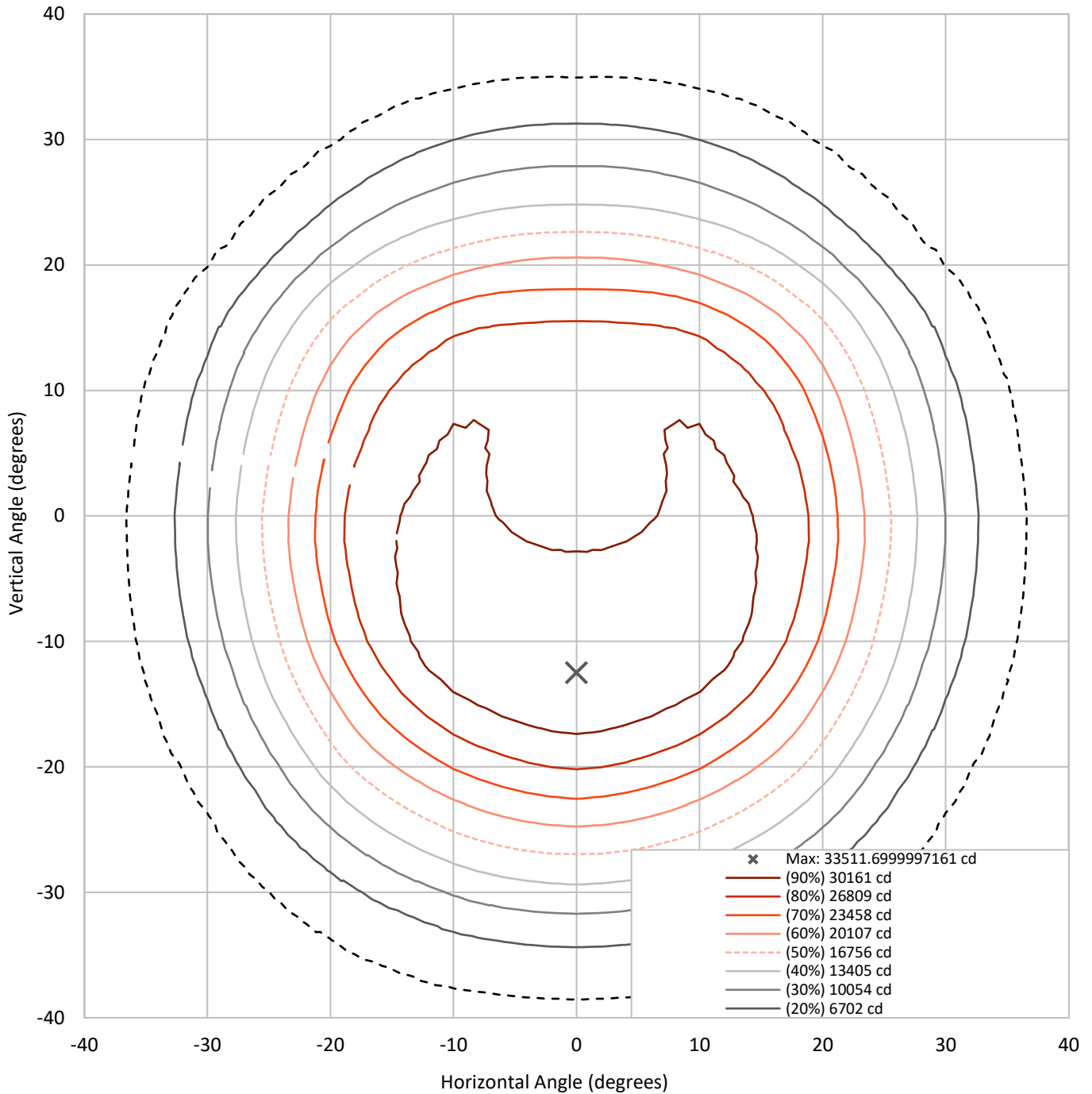
Input Watts (W): 221.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P627436 (CONVERTED FROM TYPE C PHOTOMETRY)

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### Iso-Candela Plot





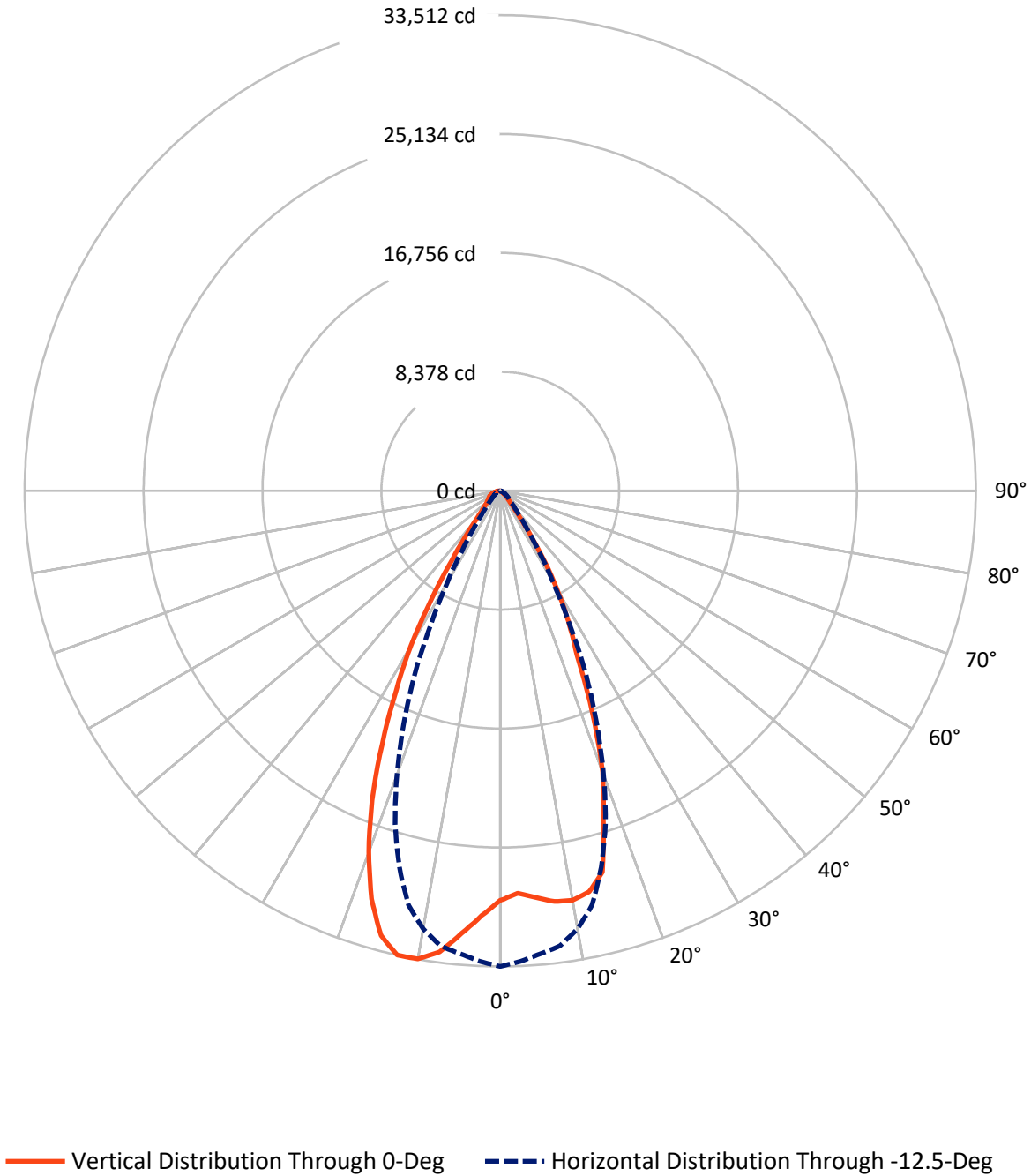
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### Lumen Table

90																			
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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	3.3	4.6	5.3	5.3	4.6	3.3	1.9	0.8	0.2	0.1				
40	0.1	0.1	0.9	3.4	6.7	11.0	16.4	20.1	20.1	16.4	11.0	6.7	3.4	0.9	0.1	0.1			
30		0.4	2.7	6.9	14.4	31.1	70.6	107.8	107.8	70.6	31.1	14.4	6.9	2.7	0.4				
20	0.3	1.0	4.5	11.2	30.0	111.2	286.3	400.2	400.2	286.3	111.2	30.0	11.2	4.5	1.0	0.3			
10		1.6	6.2	17.3	71.4	308.8	644.2	797.6	797.6	644.2	308.8	71.4	17.3	6.2	1.6				
0	0.5	2.1	7.7	22.3	113.7	454.7	830.6	900.4	900.4	830.6	454.7	113.7	22.3	7.7	2.1	0.5			
-10		2.4	8.5	23.8	119.0	469.6	860.5	955.7	955.7	860.5	469.6	119.0	23.8	8.5	2.4				
-20	0.7	2.6	8.6	21.7	85.1	349.7	725.9	926.9	926.9	725.9	349.7	85.1	21.7	8.6	2.6	0.7			
-30		2.5	8.2	18.0	47.6	169.6	404.5	569.2	569.2	404.5	169.6	47.6	18.0	8.2	2.5				
-40	0.6	2.2	7.4	15.0	28.4	60.4	126.4	187.5	187.5	126.4	60.4	28.4	15.0	7.4	2.2	0.6			
-50		1.9	6.2	12.5	20.8	30.6	43.1	51.1	51.1	43.1	30.6	20.8	12.5	6.2	1.9				
-60	0.4	1.4	4.6	9.8	16.3	22.6	28.2	30.8	30.8	28.2	22.6	16.3	9.8	4.6	1.4	0.4			
-70		1.0	3.0	6.7	11.5	16.1	20.5	22.9	22.9	20.5	16.1	11.5	6.7	3.0	1.0				
-80	0.2	2.6	12.0	25.6	32.9	25.6	12.0	2.6	0.2										
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

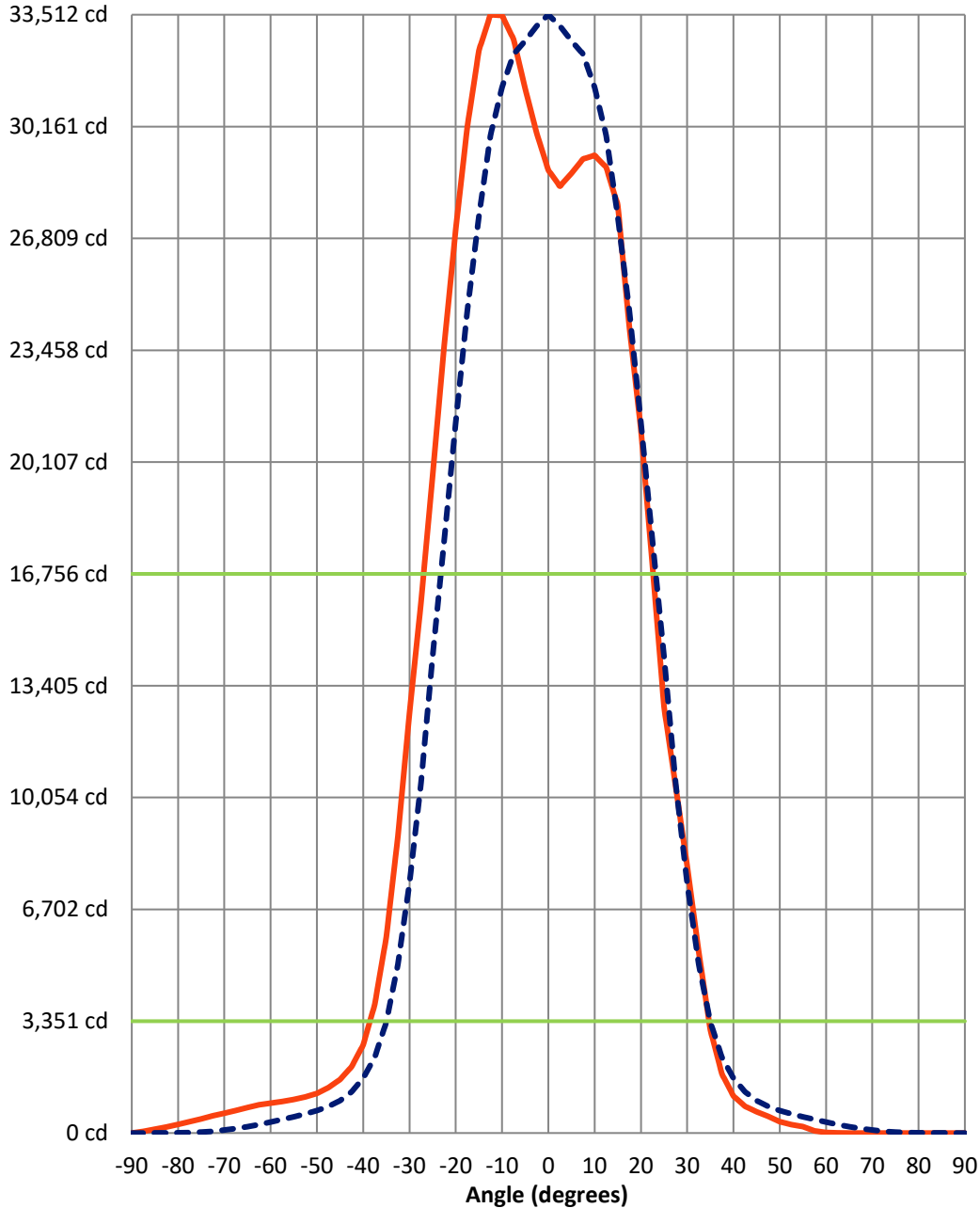
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 46.4°  
 V Angle: 49.6°  
 Lumens: 16021.6  
 Efficiency: 67.0%

**Field:**  
 H Angle: 69.9°  
 V Angle: 73.3°  
 Lumens: 21560.3  
 Efficiency: 90.1%

**Spill:**  
 Lumens: 2359.8  
 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	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	6
55°	0	0	1	3	4	3	3	5	5	6	6
52.5°	0	0	1	4	4	3	4	6	5	6	6
50°	0	0	2	5	4	3	5	6	6	6	6
47.5°	0	0	2	5	4	4	6	6	6	6	8
45°	0	0	2	5	4	4	6	7	6	7	9
42.5°	0	0	3	5	5	5	7	7	6	8	11
40°	0	0	3	6	5	5	7	7	7	10	13
37.5°	0	0	3	6	5	5	8	8	9	12	15
35°	0	0	4	6	5	6	9	8	11	16	20
32.5°	0	0	4	6	5	6	9	8	13	19	33
30°	0	0	4	6	5	7	10	9	15	24	44
27.5°	0	0	4	6	6	8	10	11	18	29	54
25°	0	0	4	6	6	8	10	13	22	37	64
22.5°	0	0	5	6	6	9	11	14	27	45	75
20°	0	0	5	6	6	9	11	16	31	53	87
17.5°	0	0	5	6	6	10	11	18	36	59	99
15°	0	0	5	6	6	10	12	20	41	65	111
12.5°	0	0	5	6	6	10	13	24	45	70	123
10°	0	0	5	6	6	11	13	28	49	79	134
7.5°	0	0	5	6	6	11	14	32	53	88	142
5°	0	0	5	6	6	11	15	36	56	98	149
2.5°	0	0	5	6	6	11	16	40	58	107	155
0°	0	0	6	6	6	11	16	44	60	115	159
-2.5°	0	0	5	6	6	12	19	46	68	121	168
-5°	0	0	5	6	6	12	22	47	75	125	175
-7.5°	0	0	5	6	7	13	25	48	82	129	181
-10°	0	0	5	6	7	13	27	49	87	132	186
-12.5°	0	1	5	6	8	13	29	49	91	135	190
-15°	0	1	5	6	8	14	30	50	92	136	192
-17.5°	0	1	5	6	8	14	31	52	92	137	191
-20°	0	1	5	6	8	14	31	54	91	136	189

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CATALOG NUMBER: GFLD-SA4D-727-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	6	8	14	32	55	89	134	184
-25°	0	1	5	6	8	15	31	56	87	131	177
-27.5°	0	1	5	6	8	16	31	56	85	128	173
-30°	0	1	5	6	8	17	31	55	84	124	168
-32.5°	0	1	5	6	9	17	30	54	83	120	161
-35°	0	1	5	6	9	18	30	52	81	116	153
-37.5°	0	1	5	6	9	18	30	50	77	113	151
-40°	0	1	5	6	9	18	30	48	72	108	148
-42.5°	0	1	5	6	9	18	30	46	69	102	144
-45°	0	1	5	6	10	18	29	44	66	96	137
-47.5°	0	1	5	6	10	18	28	43	63	89	128
-50°	0	1	5	6	10	17	28	41	60	85	118
-52.5°	0	1	5	6	10	17	27	39	57	81	108
-55°	0	1	5	7	10	16	26	37	54	75	102
-57.5°	0	1	5	7	10	16	24	35	51	71	94
-60°	0	1	5	7	10	15	23	33	47	66	87
-62.5°	0	1	5	7	9	14	22	31	44	60	80
-65°	0	1	4	7	9	13	20	29	40	54	72
-67.5°	0	1	4	7	9	12	18	26	36	48	64
-70°	0	1	4	7	9	12	16	23	31	41	55
-72.5°	0	1	3	6	8	11	15	19	27	35	46
-75°	0	1	3	5	8	11	14	17	22	29	38
-77.5°	0	1	2	4	7	10	12	15	19	23	29
-80°	0	0	2	4	6	8	11	14	17	20	24
-82.5°	0	0	1	3	4	6	8	11	14	16	19
-85°	0	0	1	2	3	4	6	7	9	12	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: P627436 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-727-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°	6	5	4	4	6	5	4	4	4	5	13
57.5°	6	5	5	6	6	6	7	8	20	33	36
55°	6	5	6	7	8	10	15	31	46	57	61
52.5°	6	6	8	10	13	21	38	56	71	82	97
50°	7	9	11	15	24	43	64	84	103	120	141
47.5°	9	12	17	24	44	69	94	119	142	166	196
45°	12	18	24	42	68	98	130	158	181	210	237
42.5°	14	27	40	60	96	133	168	192	217	249	284
40°	23	38	58	88	127	171	202	227	254	298	341
37.5°	34	53	77	117	163	205	236	266	306	356	408
35°	46	67	102	147	199	237	271	310	364	422	483
32.5°	58	81	127	178	226	268	306	363	420	484	568
30°	71	102	152	207	253	296	350	413	470	548	646
27.5°	84	123	177	231	278	323	394	455	520	609	727
25°	98	146	201	253	301	359	436	501	568	681	841
22.5°	115	167	224	274	324	396	480	560	648	761	957
20°	133	187	244	298	346	433	526	624	743	900	1158
17.5°	150	205	264	322	383	471	575	692	840	1035	1413
15°	165	221	284	347	417	511	625	768	948	1191	1661
12.5°	179	236	303	371	448	546	668	825	1036	1386	1977
10°	192	249	321	394	475	578	707	872	1109	1526	2213
7.5°	202	263	337	416	498	605	739	911	1173	1637	2397
5°	211	279	352	432	516	628	766	940	1226	1717	2539
2.5°	219	294	364	445	529	646	787	969	1278	1784	2660
0°	225	308	374	456	538	659	802	989	1319	1830	2753
-2.5°	233	315	387	465	554	669	809	1004	1332	1836	2734
-5°	240	320	397	471	566	674	811	1010	1330	1822	2678
-7.5°	245	323	405	476	572	677	812	1006	1316	1791	2586
-10°	249	326	408	482	574	677	808	994	1285	1732	2449
-12.5°	254	329	409	485	574	673	798	972	1236	1644	2271
-15°	258	331	408	485	571	666	780	940	1170	1525	2052
-17.5°	259	332	406	481	566	655	757	903	1110	1422	1895
-20°	259	331	404	473	560	644	742	875	1059	1323	1704

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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°	256	328	400	466	549	632	723	840	994	1211	1519
-25°	251	324	395	462	537	618	700	802	937	1128	1384
-27.5°	242	318	387	455	524	603	679	772	890	1037	1242
-30°	230	308	377	445	512	586	660	738	841	970	1135
-32.5°	218	298	365	431	499	569	638	711	800	906	1035
-35°	210	285	353	415	482	550	617	685	757	852	962
-37.5°	205	271	340	399	463	529	593	658	725	799	899
-40°	198	257	326	385	442	507	569	630	692	766	843
-42.5°	190	248	310	371	425	484	543	602	664	733	805
-45°	182	236	295	352	407	462	519	574	635	700	767
-47.5°	172	222	279	329	383	438	494	548	602	663	727
-50°	159	207	259	307	355	410	465	520	573	624	681
-52.5°	147	189	239	286	330	376	432	488	541	592	641
-55°	133	173	217	264	308	348	397	453	505	555	606
-57.5°	122	155	196	240	283	325	370	418	469	518	567
-60°	112	139	174	215	258	299	343	387	434	480	525
-62.5°	101	125	154	187	227	269	310	352	396	435	475
-65°	92	111	135	163	195	232	271	312	352	387	421
-67.5°	81	98	117	138	166	197	229	265	302	337	369
-70°	70	85	101	119	140	165	194	224	253	283	315
-72.5°	58	71	85	100	118	140	163	186	212	238	265
-75°	47	58	70	83	98	115	134	155	175	196	218
-77.5°	37	47	56	66	77	91	106	122	139	156	172
-80°	29	35	43	51	60	70	80	91	103	117	131
-82.5°	23	27	32	37	43	50	57	65	74	84	94
-85°	16	19	22	25	29	32	37	41	47	53	60
-87.5°	8	10	11	13	14	16	18	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	5
60°	15	10	14	18	17	13	20	22	20	17	17
57.5°	38	42	48	56	61	65	70	76	80	82	85
55°	71	85	99	106	118	136	152	153	156	160	169
52.5°	113	130	137	150	173	188	195	208	222	235	247
50°	164	178	195	216	238	252	257	280	307	329	343
47.5°	216	234	264	301	321	337	360	389	419	451	477
45°	263	297	335	368	394	422	453	489	536	581	615
42.5°	318	356	394	433	461	508	562	604	673	733	770
40°	382	419	474	521	579	639	732	817	904	1004	1077
37.5°	458	515	594	669	755	843	1009	1179	1317	1512	1620
35°	549	639	749	862	1000	1212	1454	1782	2123	2407	2680
32.5°	655	770	922	1124	1355	1696	2060	2664	3252	3839	4416
30°	759	925	1159	1437	1816	2356	3041	3974	4984	5869	6670
27.5°	898	1134	1437	1852	2497	3288	4554	5849	7136	8285	9110
25°	1066	1382	1811	2497	3429	4741	6438	8026	9536	10662	11610
22.5°	1309	1782	2391	3265	4956	6781	8811	10809	12505	13924	14859
20°	1609	2248	3267	4852	6841	9123	11736	13837	15926	17523	18949
17.5°	2033	3052	4490	6504	8880	11924	14615	16958	19610	21242	22697
15°	2415	3725	5775	8344	11128	14355	17528	20398	22958	24751	26377
12.5°	2898	4440	6797	9818	12863	16456	19754	22827	25334	27180	28318
10°	3331	5173	7818	10977	14386	18139	21557	24756	27185	28611	29449
7.5°	3680	5782	8645	11969	15568	19346	22957	26131	28455	29649	30220
5°	3951	6234	9292	12782	16521	20386	24071	27179	29136	30123	30442
2.5°	4154	6548	9728	13318	17163	21154	24917	27979	29649	30361	30467
0°	4291	6769	10011	13654	17715	21429	25374	28484	30072	30643	30698
-2.5°	4259	6689	9999	13532	17651	21553	25447	28516	30216	30983	31108
-5°	4172	6501	9667	13186	17149	21056	24771	28012	30097	31257	31770
-7.5°	4005	6176	9100	12524	16336	20247	24034	27397	29797	31428	32433
-10°	3720	5701	8375	11687	15444	19170	22915	26404	28989	30953	32353
-12.5°	3331	5056	7490	10501	14278	17757	21302	24646	27467	29888	31335
-15°	2930	4385	6571	9326	12614	16040	19316	22596	25381	27646	29450
-17.5°	2644	3797	5507	7918	10805	14055	17251	20265	22777	24907	26799
-20°	2283	3138	4493	6520	9061	11903	14964	17647	19890	21887	23694



REPORT NUMBER: P627436 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1995	2688	3666	5049	7332	9838	12342	14812	16921	18699	20242
-25°	1733	2220	2984	4109	5594	7758	9868	11953	13901	15553	16943
-27.5°	1528	1915	2424	3225	4352	5615	7464	9207	10881	12392	13702
-30°	1341	1631	2030	2531	3297	4235	5347	6650	7986	9178	10369
-32.5°	1207	1414	1688	2059	2488	3160	3832	4709	5555	6424	7279
-35°	1087	1253	1439	1688	1982	2374	2817	3353	3805	4374	4899
-37.5°	1004	1121	1264	1420	1631	1850	2150	2475	2755	3072	3339
-40°	936	1028	1124	1230	1374	1522	1716	1899	2076	2270	2414
-42.5°	878	952	1022	1103	1189	1308	1437	1551	1659	1773	1867
-45°	833	888	944	1008	1073	1158	1251	1336	1406	1469	1521
-47.5°	785	834	883	932	988	1050	1111	1165	1224	1273	1309
-50°	737	786	831	873	921	970	1018	1061	1103	1140	1162
-52.5°	691	741	785	824	865	905	944	984	1020	1052	1067
-55°	655	702	746	781	816	850	885	922	956	987	997
-57.5°	616	664	707	739	771	801	834	868	901	930	939
-60°	572	622	659	689	722	755	786	817	847	872	883
-62.5°	519	563	598	628	657	684	718	750	782	807	823
-65°	455	494	527	558	586	612	644	674	702	725	741
-67.5°	400	430	458	485	512	540	568	596	623	643	656
-70°	345	373	399	424	449	472	496	520	543	560	573
-72.5°	292	316	338	361	383	404	425	445	464	479	492
-75°	241	262	281	300	319	335	351	367	382	395	406
-77.5°	190	207	223	239	255	269	281	293	304	315	326
-80°	145	158	170	182	194	204	213	223	231	240	248
-82.5°	104	112	120	128	136	143	150	157	163	169	175
-85°	66	71	75	80	84	88	93	97	101	104	108
-87.5°	32	34	36	38	40	42	44	46	48	50	51
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627436 (CONVERTED FROM TYPE C PHOTOMETRY)  
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**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
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	5	4	4	4
60°	17	16	16	17	16	16	17	17	17	20	22
57.5°	83	77	72	66	72	77	83	85	82	80	76
55°	179	190	194	192	194	190	179	169	160	156	153
52.5°	255	260	259	253	259	260	255	247	235	222	208
50°	349	349	346	341	346	349	349	343	329	307	280
47.5°	490	497	501	500	501	497	490	477	451	419	389
45°	628	635	638	637	638	635	628	615	581	536	489
42.5°	790	802	806	802	806	802	790	770	733	673	604
40°	1120	1134	1127	1110	1127	1134	1120	1077	1004	904	817
37.5°	1696	1751	1774	1775	1774	1751	1696	1620	1512	1317	1179
35°	2926	3121	3211	3099	3211	3121	2926	2680	2407	2123	1782
32.5°	4886	5233	5429	5429	5429	5233	4886	4416	3839	3252	2664
30°	7275	7710	7954	8006	7954	7710	7275	6670	5869	4984	3974
27.5°	9753	10202	10435	10401	10435	10202	9753	9110	8285	7136	5849
25°	12239	12579	12775	12781	12775	12579	12239	11610	10662	9536	8026
22.5°	15911	16627	16922	17000	16922	16627	15911	14859	13924	12505	10809
20°	19915	20609	21056	21083	21056	20609	19915	18949	17523	15926	13837
17.5°	23729	24073	24137	24165	24137	24073	23729	22697	21242	19610	16958
15°	27324	27445	27763	27803	27763	27445	27324	26377	24751	22958	20398
12.5°	29032	29143	29088	28940	29088	29143	29032	28318	27180	25334	22827
10°	29963	29807	29576	29297	29576	29807	29963	29449	28611	27185	24756
7.5°	30174	30001	29592	29188	29592	30001	30174	30220	29649	28455	26131
5°	30274	29766	29251	28759	29251	29766	30274	30442	30123	29136	27179
2.5°	30215	29611	28903	28374	28903	29611	30215	30467	30361	29649	27979
0°	30407	29797	29056	28858	29056	29797	30407	30698	30643	30072	28484
-2.5°	30944	30450	30062	29957	30062	30450	30944	31108	30983	30216	28516
-5°	31910	31801	31143	31297	31143	31801	31910	31770	31257	30097	28012
-7.5°	32843	32688	32409	32770	32409	32688	32843	32433	31428	29797	27397
-10°	33091	33040	33170	33490	33170	33040	33091	32353	30953	28989	26404
-12.5°	32330	32729	33175	33512	33175	32729	32330	31335	29888	27467	24646
-15°	30635	31450	32118	32435	32118	31450	30635	29450	27646	25381	22596
-17.5°	28138	29138	29929	30155	29929	29138	28138	26799	24907	22777	20265
-20°	25064	26081	26801	27088	26801	26081	25064	23694	21887	19890	17647

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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°	21605	22597	23250	23594	23250	22597	21605	20242	18699	16921	14812
-25°	18094	18967	19546	19698	19546	18967	18094	16943	15553	13901	11953
-27.5°	14737	15438	15865	15912	15865	15438	14737	13702	12392	10881	9207
-30°	11360	12011	12381	12577	12381	12011	11360	10369	9178	7986	6650
-32.5°	7978	8495	8808	8890	8808	8495	7978	7279	6424	5555	4709
-35°	5319	5641	5839	5879	5839	5641	5319	4899	4374	3805	3353
-37.5°	3556	3713	3810	3857	3810	3713	3556	3339	3072	2755	2475
-40°	2520	2593	2634	2643	2634	2593	2520	2414	2270	2076	1899
-42.5°	1927	1965	1984	1989	1984	1965	1927	1867	1773	1659	1551
-45°	1557	1583	1599	1604	1599	1583	1557	1521	1469	1406	1336
-47.5°	1332	1349	1359	1363	1359	1349	1332	1309	1273	1224	1165
-50°	1175	1185	1188	1187	1188	1185	1175	1162	1140	1103	1061
-52.5°	1076	1083	1085	1082	1085	1083	1076	1067	1052	1020	984
-55°	1003	1008	1008	1006	1008	1008	1003	997	987	956	922
-57.5°	947	953	951	945	951	953	947	939	930	901	868
-60°	891	898	898	896	898	898	891	883	872	847	817
-62.5°	836	847	848	846	848	847	836	823	807	782	750
-65°	756	769	769	764	769	769	756	741	725	702	674
-67.5°	668	677	678	676	678	677	668	656	643	623	596
-70°	585	595	596	593	596	595	585	573	560	543	520
-72.5°	503	513	516	517	516	513	503	492	479	464	445
-75°	417	426	425	423	425	426	417	406	395	382	367
-77.5°	335	344	343	341	343	344	335	326	315	304	293
-80°	255	262	261	258	261	262	255	248	240	231	223
-82.5°	181	186	184	181	184	186	181	175	169	163	157
-85°	112	115	115	115	115	115	112	108	104	101	97
-87.5°	53	55	52	50	52	55	53	51	50	48	46
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627436 (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°	20	13	17	18	14	10	15	13	5	4	4
57.5°	70	65	61	56	48	42	38	36	33	20	8
55°	152	136	118	106	99	85	71	61	57	46	31
52.5°	195	188	173	150	137	130	113	97	82	71	56
50°	257	252	238	216	195	178	164	141	120	103	84
47.5°	360	337	321	301	264	234	216	196	166	142	119
45°	453	422	394	368	335	297	263	237	210	181	158
42.5°	562	508	461	433	394	356	318	284	249	217	192
40°	732	639	579	521	474	419	382	341	298	254	227
37.5°	1009	843	755	669	594	515	458	408	356	306	266
35°	1454	1212	1000	862	749	639	549	483	422	364	310
32.5°	2060	1696	1355	1124	922	770	655	568	484	420	363
30°	3041	2356	1816	1437	1159	925	759	646	548	470	413
27.5°	4554	3288	2497	1852	1437	1134	898	727	609	520	455
25°	6438	4741	3429	2497	1811	1382	1066	841	681	568	501
22.5°	8811	6781	4956	3265	2391	1782	1309	957	761	648	560
20°	11736	9123	6841	4852	3267	2248	1609	1158	900	743	624
17.5°	14615	11924	8880	6504	4490	3052	2033	1413	1035	840	692
15°	17528	14355	11128	8344	5775	3725	2415	1661	1191	948	768
12.5°	19754	16456	12863	9818	6797	4440	2898	1977	1386	1036	825
10°	21557	18139	14386	10977	7818	5173	3331	2213	1526	1109	872
7.5°	22957	19346	15568	11969	8645	5782	3680	2397	1637	1173	911
5°	24071	20386	16521	12782	9292	6234	3951	2539	1717	1226	940
2.5°	24917	21154	17163	13318	9728	6548	4154	2660	1784	1278	969
0°	25374	21429	17715	13654	10011	6769	4291	2753	1830	1319	989
-2.5°	25447	21553	17651	13532	9999	6689	4259	2734	1836	1332	1004
-5°	24771	21056	17149	13186	9667	6501	4172	2678	1822	1330	1010
-7.5°	24034	20247	16336	12524	9100	6176	4005	2586	1791	1316	1006
-10°	22915	19170	15444	11687	8375	5701	3720	2449	1732	1285	994
-12.5°	21302	17757	14278	10501	7490	5056	3331	2271	1644	1236	972
-15°	19316	16040	12614	9326	6571	4385	2930	2052	1525	1170	940
-17.5°	17251	14055	10805	7918	5507	3797	2644	1895	1422	1110	903
-20°	14964	11903	9061	6520	4493	3138	2283	1704	1323	1059	875

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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°	12342	9838	7332	5049	3666	2688	1995	1519	1211	994	840
-25°	9868	7758	5594	4109	2984	2220	1733	1384	1128	937	802
-27.5°	7464	5615	4352	3225	2424	1915	1528	1242	1037	890	772
-30°	5347	4235	3297	2531	2030	1631	1341	1135	970	841	738
-32.5°	3832	3160	2488	2059	1688	1414	1207	1035	906	800	711
-35°	2817	2374	1982	1688	1439	1253	1087	962	852	757	685
-37.5°	2150	1850	1631	1420	1264	1121	1004	899	799	725	658
-40°	1716	1522	1374	1230	1124	1028	936	843	766	692	630
-42.5°	1437	1308	1189	1103	1022	952	878	805	733	664	602
-45°	1251	1158	1073	1008	944	888	833	767	700	635	574
-47.5°	1111	1050	988	932	883	834	785	727	663	602	548
-50°	1018	970	921	873	831	786	737	681	624	573	520
-52.5°	944	905	865	824	785	741	691	641	592	541	488
-55°	885	850	816	781	746	702	655	606	555	505	453
-57.5°	834	801	771	739	707	664	616	567	518	469	418
-60°	786	755	722	689	659	622	572	525	480	434	387
-62.5°	718	684	657	628	598	563	519	475	435	396	352
-65°	644	612	586	558	527	494	455	421	387	352	312
-67.5°	568	540	512	485	458	430	400	369	337	302	265
-70°	496	472	449	424	399	373	345	315	283	253	224
-72.5°	425	404	383	361	338	316	292	265	238	212	186
-75°	351	335	319	300	281	262	241	218	196	175	155
-77.5°	281	269	255	239	223	207	190	172	156	139	122
-80°	213	204	194	182	170	158	145	131	117	103	91
-82.5°	150	143	136	128	120	112	104	94	84	74	65
-85°	93	88	84	80	75	71	66	60	53	47	41
-87.5°	44	42	40	38	36	34	32	28	25	22	19
-90°	0	0	0	0	0	0	0	0	0	0	0



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**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	6	4	4	5	6	5	4	4	2
57.5°	7	6	6	6	5	5	6	6	5	5	4
55°	15	10	8	7	6	5	6	6	6	5	5
52.5°	38	21	13	10	8	6	6	6	6	5	6
50°	64	43	24	15	11	9	7	6	6	6	6
47.5°	94	69	44	24	17	12	9	8	6	6	6
45°	130	98	68	42	24	18	12	9	7	6	7
42.5°	168	133	96	60	40	27	14	11	8	6	7
40°	202	171	127	88	58	38	23	13	10	7	7
37.5°	236	205	163	117	77	53	34	15	12	9	8
35°	271	237	199	147	102	67	46	20	16	11	8
32.5°	306	268	226	178	127	81	58	33	19	13	8
30°	350	296	253	207	152	102	71	44	24	15	9
27.5°	394	323	278	231	177	123	84	54	29	18	11
25°	436	359	301	253	201	146	98	64	37	22	13
22.5°	480	396	324	274	224	167	115	75	45	27	14
20°	526	433	346	298	244	187	133	87	53	31	16
17.5°	575	471	383	322	264	205	150	99	59	36	18
15°	625	511	417	347	284	221	165	111	65	41	20
12.5°	668	546	448	371	303	236	179	123	70	45	24
10°	707	578	475	394	321	249	192	134	79	49	28
7.5°	739	605	498	416	337	263	202	142	88	53	32
5°	766	628	516	432	352	279	211	149	98	56	36
2.5°	787	646	529	445	364	294	219	155	107	58	40
0°	802	659	538	456	374	308	225	159	115	60	44
-2.5°	809	669	554	465	387	315	233	168	121	68	46
-5°	811	674	566	471	397	320	240	175	125	75	47
-7.5°	812	677	572	476	405	323	245	181	129	82	48
-10°	808	677	574	482	408	326	249	186	132	87	49
-12.5°	798	673	574	485	409	329	254	190	135	91	49
-15°	780	666	571	485	408	331	258	192	136	92	50
-17.5°	757	655	566	481	406	332	259	191	137	92	52
-20°	742	644	560	473	404	331	259	189	136	91	54

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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°	723	632	549	466	400	328	256	184	134	89	55
-25°	700	618	537	462	395	324	251	177	131	87	56
-27.5°	679	603	524	455	387	318	242	173	128	85	56
-30°	660	586	512	445	377	308	230	168	124	84	55
-32.5°	638	569	499	431	365	298	218	161	120	83	54
-35°	617	550	482	415	353	285	210	153	116	81	52
-37.5°	593	529	463	399	340	271	205	151	113	77	50
-40°	569	507	442	385	326	257	198	148	108	72	48
-42.5°	543	484	425	371	310	248	190	144	102	69	46
-45°	519	462	407	352	295	236	182	137	96	66	44
-47.5°	494	438	383	329	279	222	172	128	89	63	43
-50°	465	410	355	307	259	207	159	118	85	60	41
-52.5°	432	376	330	286	239	189	147	108	81	57	39
-55°	397	348	308	264	217	173	133	102	75	54	37
-57.5°	370	325	283	240	196	155	122	94	71	51	35
-60°	343	299	258	215	174	139	112	87	66	47	33
-62.5°	310	269	227	187	154	125	101	80	60	44	31
-65°	271	232	195	163	135	111	92	72	54	40	29
-67.5°	229	197	166	138	117	98	81	64	48	36	26
-70°	194	165	140	119	101	85	70	55	41	31	23
-72.5°	163	140	118	100	85	71	58	46	35	27	19
-75°	134	115	98	83	70	58	47	38	29	22	17
-77.5°	106	91	77	66	56	47	37	29	23	19	15
-80°	80	70	60	51	43	35	29	24	20	17	14
-82.5°	57	50	43	37	32	27	23	19	16	14	11
-85°	37	32	29	25	22	19	16	14	12	9	7
-87.5°	18	16	14	13	11	10	8	7	6	5	4
-90°	0	0	0	0	0	0	0	0	0	0	0

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**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°	6	4	4	5	2	0	0
45°	6	4	4	5	2	0	0
42.5°	7	5	5	5	3	0	0
40°	7	5	5	6	3	0	0
37.5°	8	5	5	6	3	0	0
35°	9	6	5	6	4	0	0
32.5°	9	6	5	6	4	0	0
30°	10	7	5	6	4	0	0
27.5°	10	8	6	6	4	0	0
25°	10	8	6	6	4	0	0
22.5°	11	9	6	6	5	0	0
20°	11	9	6	6	5	0	0
17.5°	11	10	6	6	5	0	0
15°	12	10	6	6	5	0	0
12.5°	13	10	6	6	5	0	0
10°	13	11	6	6	5	0	0
7.5°	14	11	6	6	5	0	0
5°	15	11	6	6	5	0	0
2.5°	16	11	6	6	5	0	0
0°	16	11	6	6	6	0	0
-2.5°	19	12	6	6	5	0	0
-5°	22	12	6	6	5	0	0
-7.5°	25	13	7	6	5	0	0
-10°	27	13	7	6	5	0	0
-12.5°	29	13	8	6	5	1	0
-15°	30	14	8	6	5	1	0
-17.5°	31	14	8	6	5	1	0
-20°	31	14	8	6	5	1	0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	32	14	8	6	5	1	0
-25°	31	15	8	6	5	1	0
-27.5°	31	16	8	6	5	1	0
-30°	31	17	8	6	5	1	0
-32.5°	30	17	9	6	5	1	0
-35°	30	18	9	6	5	1	0
-37.5°	30	18	9	6	5	1	0
-40°	30	18	9	6	5	1	0
-42.5°	30	18	9	6	5	1	0
-45°	29	18	10	6	5	1	0
-47.5°	28	18	10	6	5	1	0
-50°	28	17	10	6	5	1	0
-52.5°	27	17	10	6	5	1	0
-55°	26	16	10	7	5	1	0
-57.5°	24	16	10	7	5	1	0
-60°	23	15	10	7	5	1	0
-62.5°	22	14	9	7	5	1	0
-65°	20	13	9	7	4	1	0
-67.5°	18	12	9	7	4	1	0
-70°	16	12	9	7	4	1	0
-72.5°	15	11	8	6	3	1	0
-75°	14	11	8	5	3	1	0
-77.5°	12	10	7	4	2	1	0
-80°	11	8	6	4	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)