

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: P627426 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-722-U-MWR-VSR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627426 (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-SA4D-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**

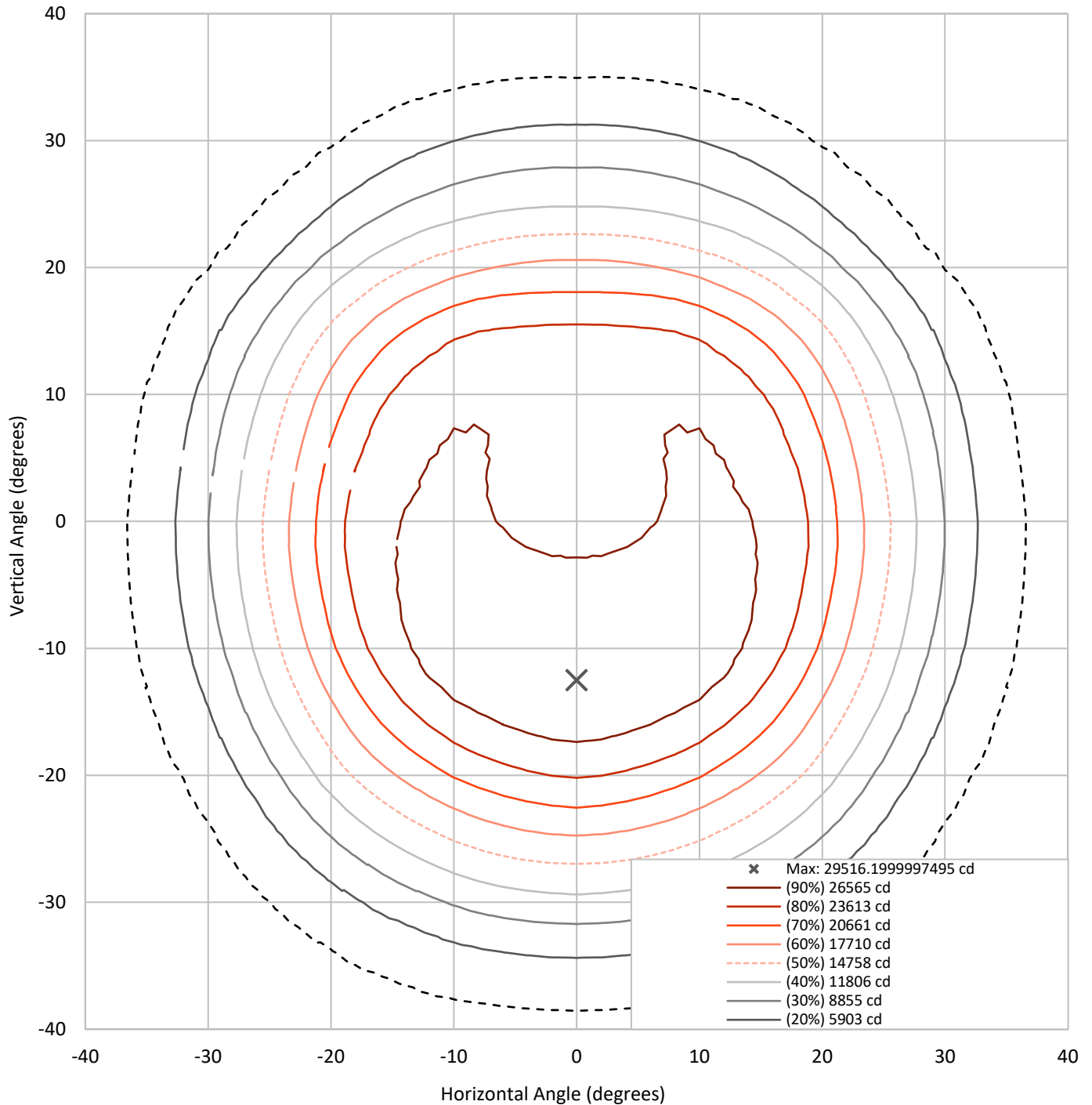
Lumens per Lamp:	N/A	NEMA Type:	4H x 5V
Luminaire Lumens:	21068.1 lumens	Max Intensity:	29516.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x -12.5°V
Efficacy:	95.2 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')		
Beam Angle (50%):	46.4°H x 49.6°V	Field Angle (10%):	69.9°H x 73.3°V
Beam Lumens:	14111.4 lumens	Field Lumens:	18989.7 lumens
Beam Efficiency:	67.0%	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		



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CATALOG NUMBER: GFLD-SA4D-722-U-MWR-VSR-XX

### Iso-Candela Plot





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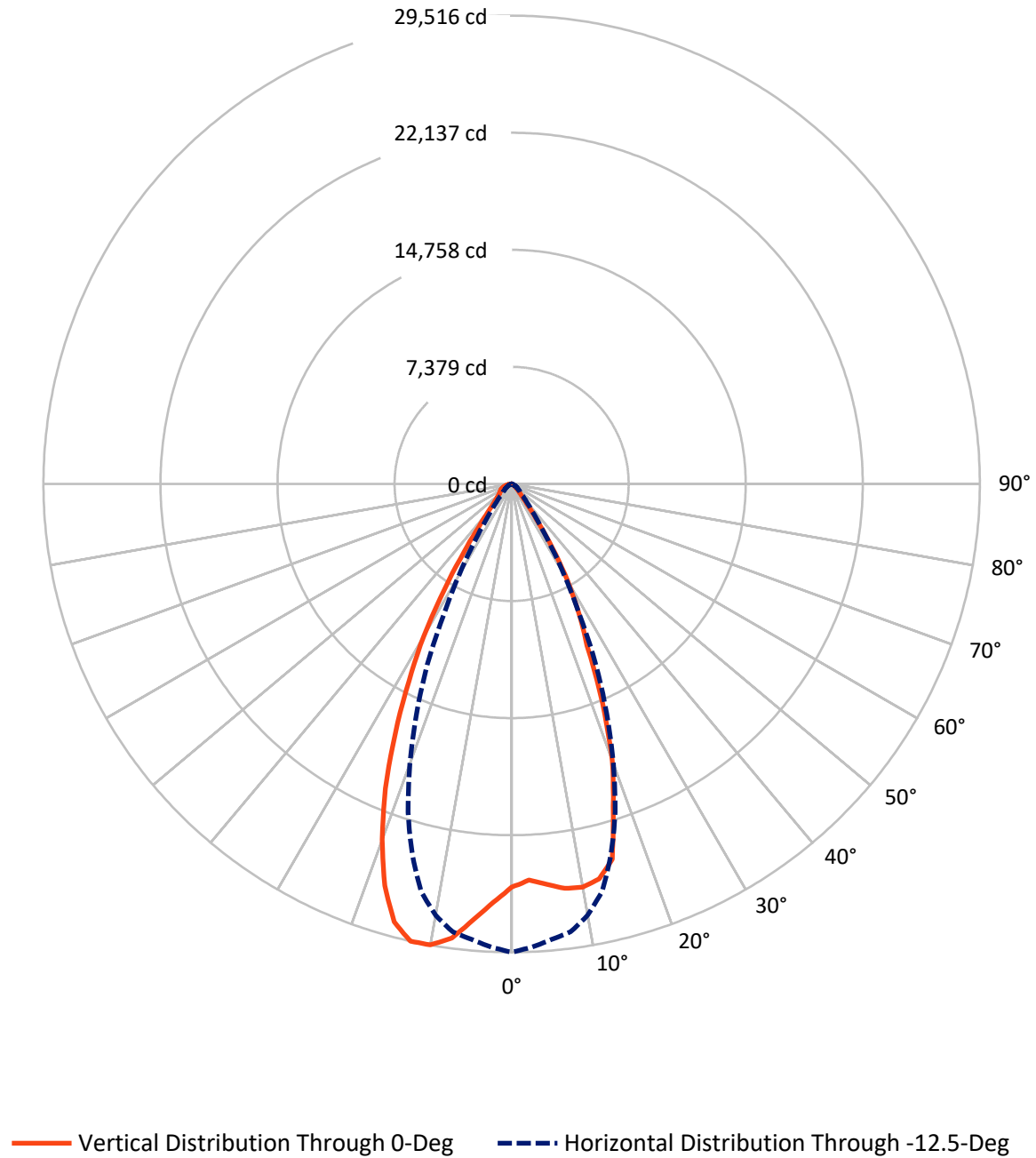
CATALOG NUMBER: GFLD-SA4D-722-U-MWR-VSR-XX

### Lumen Table

90																			
80	0.0	0.0		0.0		0.0		0.0		0.0		0.0		0.0					
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	0.1	0.7	1.7	2.9	4.0	4.7	4.7	4.0	2.9	1.7	0.7	0.1	0.1				
40	0.1	0.1	0.8	3.0	5.9	9.7	14.4	17.7	17.7	14.4	9.7	5.9	3.0	0.8	0.1	0.1			
30		0.4	2.3	6.1	12.6	27.4	62.2	95.0	95.0	62.2	27.4	12.6	6.1	2.3	0.4				
20	0.2	0.8	3.9	9.8	26.4	98.0	252.2	352.5	352.5	252.2	98.0	26.4	9.8	3.9	0.8	0.2			
10		1.4	5.5	15.2	62.9	272.0	567.4	702.5	702.5	567.4	272.0	62.9	15.2	5.5	1.4				
0	0.4	1.8	6.8	19.6	100.2	400.5	731.5	793.1	793.1	731.5	400.5	100.2	19.6	6.8	1.8	0.4			
-10		2.2	7.5	21.0	104.8	413.6	757.9	841.7	841.7	757.9	413.6	104.8	21.0	7.5	2.2				
-20	0.6	2.3	7.6	19.1	75.0	308.0	639.4	816.4	816.4	639.4	308.0	75.0	19.1	7.6	2.3	0.6			
-30		2.2	7.2	15.9	41.9	149.4	356.3	501.3	501.3	356.3	149.4	41.9	15.9	7.2	2.2				
-40	0.5	2.0	6.5	13.2	25.0	53.2	111.3	165.2	165.2	111.3	53.2	25.0	13.2	6.5	2.0	0.5			
-50		1.6	5.4	11.0	18.3	27.0	38.0	45.0	45.0	38.0	27.0	18.3	11.0	5.4	1.6				
-60	0.4	1.2	4.1	8.6	14.4	19.9	24.8	27.2	27.2	24.8	19.9	14.4	8.6	4.1	1.2	0.4			
-70		0.9	2.6	5.9	10.1	14.2	18.0	20.1	20.1	18.0	14.2	10.1	5.9	2.6	0.9				
-80	0.2	2.3		10.6		22.6		29.0		22.6		10.6		2.3	0.2				
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

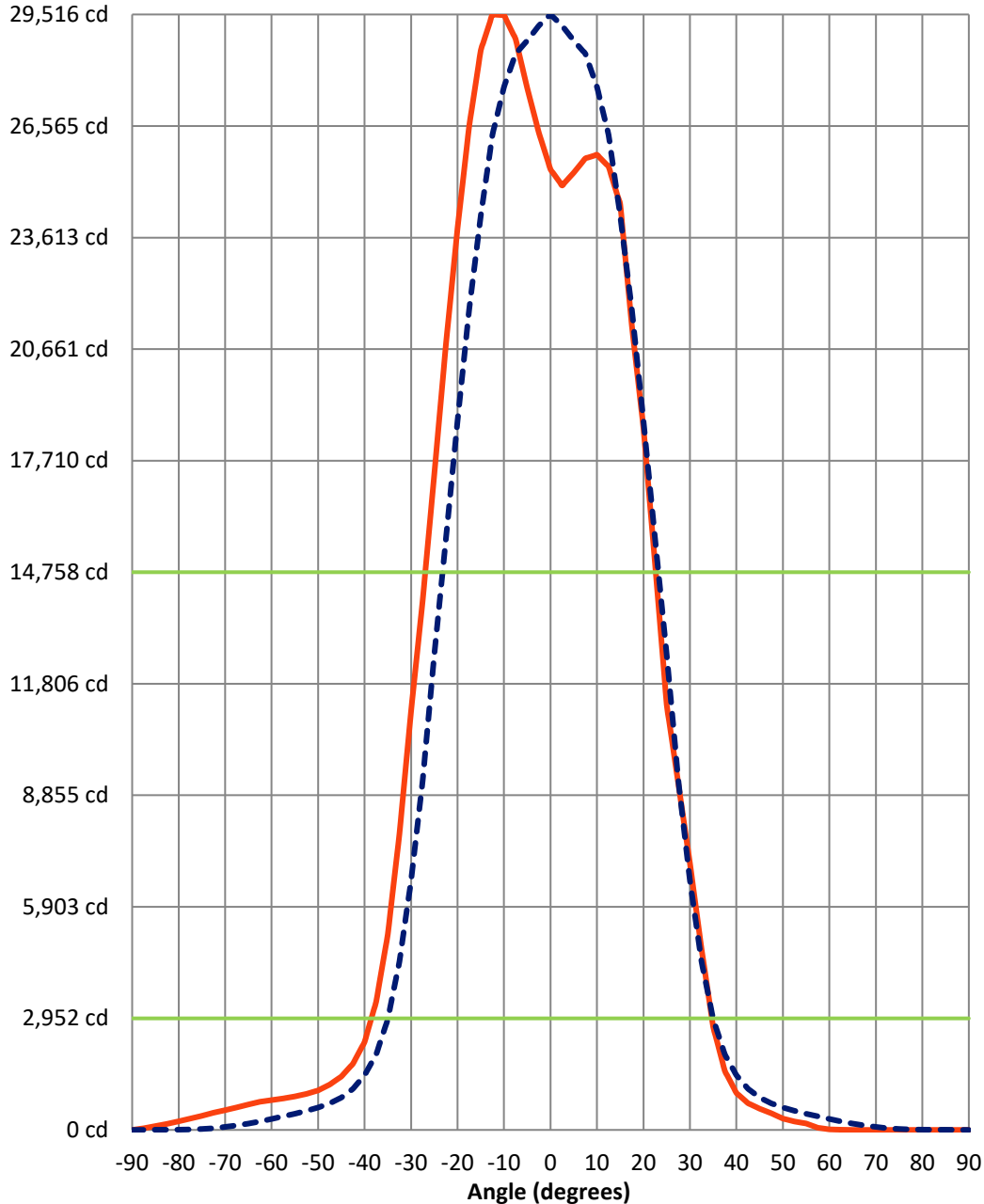
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 46.4°  
 V Angle: 49.6°  
 Lumens: 14111.4  
 Efficiency: 67.0%

**Field:**  
 H Angle: 69.9°  
 V Angle: 73.3°  
 Lumens: 18989.7  
 Efficiency: 90.1%

**Spill:**  
 Lumens: 2078.4  
 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	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	1	1	1	0	0	1	1
65°	0	0	0	1	2	2	1	0	1	2	1
62.5°	0	0	0	2	2	2	1	1	2	2	3
60°	0	0	0	2	3	2	1	2	3	3	4
57.5°	0	0	0	3	3	2	2	3	4	4	5
55°	0	0	1	3	3	2	3	5	4	5	5
52.5°	0	0	1	4	3	2	4	5	5	5	5
50°	0	0	1	4	4	3	4	5	5	5	6
47.5°	0	0	2	5	4	3	5	5	5	5	7
45°	0	0	2	5	4	4	5	6	5	6	8
42.5°	0	0	2	5	4	4	6	6	5	7	10
40°	0	0	3	5	4	5	6	7	6	9	12
37.5°	0	0	3	5	4	5	7	7	8	11	13
35°	0	0	3	5	5	5	8	7	10	14	18
32.5°	0	0	3	5	5	6	8	7	12	17	29
30°	0	0	4	5	5	6	8	8	13	21	39
27.5°	0	0	4	5	5	7	9	10	16	26	48
25°	0	0	4	5	5	7	9	11	20	33	56
22.5°	0	0	4	5	5	8	9	13	23	40	66
20°	0	0	4	5	5	8	10	14	27	46	77
17.5°	0	0	4	5	5	9	10	16	32	52	87
15°	0	0	4	5	5	9	10	18	36	57	98
12.5°	0	0	5	5	5	9	11	21	40	62	108
10°	0	0	5	5	5	9	12	25	44	70	118
7.5°	0	0	5	5	5	9	12	29	47	78	125
5°	0	0	5	5	5	10	13	32	49	86	132
2.5°	0	0	5	5	5	10	14	36	51	94	136
0°	0	0	5	5	5	10	14	39	53	102	140
-2.5°	0	0	5	5	5	10	17	40	60	106	148
-5°	0	0	5	5	6	11	19	41	67	110	154
-7.5°	0	0	5	5	6	11	22	42	72	113	160
-10°	0	0	5	5	6	11	24	43	77	116	164
-12.5°	0	1	5	5	7	12	25	43	80	119	167
-15°	0	1	5	5	7	12	26	44	81	120	169
-17.5°	0	1	4	5	7	12	27	46	81	120	168
-20°	0	1	4	5	7	12	28	47	80	120	166

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CATALOG NUMBER: GFLD-SA4D-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	4	5	7	13	28	48	78	118	162
-25°	0	1	4	5	7	13	28	49	77	116	156
-27.5°	0	1	4	5	7	14	27	49	75	112	153
-30°	0	1	4	5	7	15	27	48	74	109	148
-32.5°	0	1	4	5	7	15	26	47	73	106	142
-35°	0	1	4	5	8	16	26	46	71	103	135
-37.5°	0	1	4	5	8	16	27	44	68	99	133
-40°	0	1	4	5	8	16	27	43	64	95	131
-42.5°	0	1	4	5	8	16	26	41	61	90	126
-45°	0	1	4	5	9	16	26	39	58	85	120
-47.5°	0	1	4	5	9	16	25	38	55	78	113
-50°	0	1	4	6	9	15	24	36	53	75	104
-52.5°	0	1	4	6	9	15	24	35	50	71	95
-55°	0	1	4	6	9	14	23	32	48	66	89
-57.5°	0	1	4	6	9	14	22	31	45	62	83
-60°	0	1	4	6	8	13	20	29	42	58	76
-62.5°	0	1	4	6	8	12	19	27	39	53	70
-65°	0	1	4	6	8	12	17	25	35	48	63
-67.5°	0	1	3	6	8	11	16	23	31	42	56
-70°	0	1	3	6	8	10	14	20	28	37	48
-72.5°	0	1	3	5	7	10	13	17	23	31	40
-75°	0	1	2	5	7	9	12	15	19	26	33
-77.5°	0	1	2	4	6	9	11	14	17	20	26
-80°	0	0	2	3	5	7	10	12	15	18	21
-82.5°	0	0	1	2	4	5	7	10	12	14	17
-85°	0	0	1	2	3	4	5	7	8	10	12
-87.5°	0	0	0	1	1	2	3	3	4	5	6
-90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P627426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-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	0	0	0	0	0	0	0	0	0
67.5°	0	1	2	1	0	0	0	0	0	0	0
65°	2	3	2	1	0	1	2	1	0	0	0
62.5°	4	4	3	2	3	4	3	2	0	1	2
60°	5	4	3	4	5	4	3	3	4	5	11
57.5°	5	4	4	5	5	5	6	7	17	29	32
55°	5	5	5	7	7	8	13	27	40	50	54
52.5°	5	5	7	9	11	18	33	49	62	72	85
50°	6	8	10	13	21	38	56	74	91	106	125
47.5°	8	10	15	21	39	61	83	105	125	146	173
45°	10	16	21	37	60	87	114	139	160	185	209
42.5°	12	24	35	53	85	117	148	169	192	219	250
40°	20	33	51	78	112	150	178	200	224	262	300
37.5°	30	47	67	103	144	181	208	234	269	314	359
35°	40	59	90	129	175	209	239	273	321	372	426
32.5°	51	71	112	157	199	236	270	320	370	426	500
30°	62	90	134	182	223	261	308	364	414	483	569
27.5°	74	109	156	204	245	285	347	401	458	536	640
25°	86	128	177	223	265	316	384	441	500	600	740
22.5°	101	147	197	241	285	349	422	493	571	670	843
20°	117	165	215	262	305	381	463	550	655	793	1020
17.5°	132	181	233	284	337	415	506	609	740	912	1245
15°	145	195	250	305	367	450	550	677	835	1049	1463
12.5°	158	208	267	326	394	481	589	726	913	1221	1741
10°	169	219	282	347	418	509	622	768	976	1344	1949
7.5°	178	231	297	366	439	533	651	802	1033	1441	2112
5°	186	246	310	380	454	553	674	828	1080	1513	2237
2.5°	193	259	321	392	466	569	693	853	1126	1571	2342
0°	198	271	329	402	474	581	707	871	1161	1612	2425
-2.5°	205	277	341	409	488	589	713	884	1173	1617	2408
-5°	211	281	350	415	498	594	715	889	1172	1605	2358
-7.5°	215	284	357	419	504	597	715	886	1159	1578	2278
-10°	219	287	359	425	506	596	712	875	1132	1526	2157
-12.5°	224	290	360	428	505	593	702	856	1088	1448	2001
-15°	227	292	359	427	503	586	687	828	1031	1344	1807
-17.5°	228	292	358	423	499	577	667	796	977	1252	1669
-20°	228	291	356	416	493	567	653	770	933	1165	1501

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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°	226	289	353	410	484	557	637	740	876	1066	1338
-25°	221	285	348	407	473	545	616	706	825	994	1219
-27.5°	213	280	341	401	461	531	598	680	784	914	1094
-30°	203	271	332	392	451	516	581	650	741	854	999
-32.5°	192	263	322	380	440	501	562	626	704	798	912
-35°	185	251	311	366	425	485	543	603	667	750	848
-37.5°	181	239	300	352	408	466	522	579	638	704	792
-40°	175	227	287	339	390	446	501	555	609	675	743
-42.5°	167	218	273	327	374	426	479	530	585	646	709
-45°	160	208	260	310	358	407	457	505	559	616	675
-47.5°	151	196	246	290	338	386	435	483	530	583	640
-50°	140	183	228	271	313	361	410	458	505	550	600
-52.5°	129	167	210	252	291	331	381	430	476	521	565
-55°	117	152	191	232	271	306	349	399	445	489	534
-57.5°	107	137	173	211	250	287	326	368	413	456	500
-60°	98	123	153	189	227	263	302	341	382	423	462
-62.5°	89	110	135	165	200	237	273	310	349	384	419
-65°	81	98	119	144	171	205	239	275	310	341	371
-67.5°	71	86	103	122	146	174	202	234	266	296	325
-70°	61	75	89	105	123	146	171	197	223	250	278
-72.5°	51	63	75	88	104	123	143	164	186	210	233
-75°	42	51	62	73	86	102	118	136	154	173	192
-77.5°	33	41	49	58	68	80	94	108	122	137	152
-80°	25	31	38	45	53	61	71	80	91	103	115
-82.5°	20	24	28	33	38	44	50	57	65	74	83
-85°	14	17	19	22	25	29	32	36	41	47	53
-87.5°	7	8	10	11	13	14	16	17	20	22	25
-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°	1	1	2	2	1	1	2	3	3	3	4
60°	13	9	12	16	15	12	17	20	18	15	15
57.5°	34	37	42	49	54	57	62	67	71	73	75
55°	62	75	88	94	104	120	134	135	137	141	149
52.5°	100	114	121	132	153	166	172	183	195	207	218
50°	145	157	171	190	210	222	227	246	271	290	302
47.5°	190	206	233	265	282	297	317	342	369	398	420
45°	232	261	295	324	347	371	399	430	473	512	542
42.5°	280	313	347	381	406	447	495	532	592	645	678
40°	336	369	418	459	510	563	644	720	796	884	949
37.5°	403	454	523	589	665	743	889	1038	1160	1332	1427
35°	484	563	660	760	880	1068	1281	1570	1870	2120	2360
32.5°	577	678	812	990	1193	1494	1814	2346	2864	3381	3889
30°	669	815	1021	1265	1599	2075	2679	3500	4390	5169	5875
27.5°	791	999	1265	1631	2199	2896	4011	5152	6285	7297	8023
25°	939	1217	1595	2200	3020	4176	5670	7069	8399	9391	10226
22.5°	1153	1569	2106	2876	4365	5973	7761	9520	11014	12264	13087
20°	1417	1980	2878	4274	6025	8035	10337	12188	14028	15434	16690
17.5°	1791	2688	3955	5728	7821	10502	12872	14936	17272	18709	19991
15°	2127	3281	5087	7349	9801	12643	15438	17966	20220	21800	23232
12.5°	2552	3911	5987	8648	11330	14494	17399	20106	22314	23939	24942
10°	2934	4556	6886	9668	12671	15976	18987	21805	23944	25200	25937
7.5°	3241	5093	7614	10542	13712	17039	20220	23016	25063	26114	26617
5°	3480	5491	8184	11258	14551	17955	21201	23938	25662	26531	26812
2.5°	3659	5767	8568	11730	15117	18632	21946	24643	26114	26741	26834
0°	3780	5962	8818	12026	15603	18874	22349	25088	26487	26990	27038
-2.5°	3751	5892	8807	11919	15547	18983	22413	25116	26613	27289	27399
-5°	3675	5726	8515	11614	15105	18546	21817	24672	26509	27530	27982
-7.5°	3528	5440	8015	11031	14388	17833	21169	24130	26244	27681	28566
-10°	3277	5021	7376	10294	13602	16885	20183	23256	25532	27262	28495
-12.5°	2934	4453	6597	9249	12575	15640	18763	21707	24192	26325	27599
-15°	2581	3862	5788	8214	11110	14128	17013	19902	22355	24350	25939
-17.5°	2329	3344	4850	6974	9516	12380	15194	17849	20062	21937	23604
-20°	2011	2764	3957	5743	7981	10484	13180	15543	17519	19277	20869

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REPORT NUMBER: P627426 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-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°	1757	2367	3229	4447	6458	8665	10871	13046	14904	16470	17829
-25°	1527	1955	2628	3619	4927	6833	8691	10528	12243	13699	14923
-27.5°	1346	1687	2135	2841	3833	4946	6574	8109	9584	10915	12069
-30°	1181	1437	1788	2229	2904	3730	4710	5858	7034	8084	9133
-32.5°	1063	1245	1486	1814	2192	2783	3375	4148	4892	5658	6411
-35°	957	1104	1268	1487	1746	2091	2481	2953	3351	3853	4315
-37.5°	885	987	1113	1251	1437	1629	1893	2180	2427	2706	2941
-40°	824	905	990	1083	1211	1341	1511	1672	1829	1999	2126
-42.5°	774	839	900	972	1047	1152	1266	1366	1461	1562	1645
-45°	734	782	832	888	945	1020	1101	1176	1238	1294	1340
-47.5°	691	735	778	821	870	925	978	1026	1078	1121	1153
-50°	649	692	732	769	811	854	896	935	971	1004	1023
-52.5°	608	653	691	726	762	797	832	866	898	927	940
-55°	577	618	657	688	718	748	779	812	842	869	878
-57.5°	543	585	622	651	679	705	734	764	793	819	827
-60°	504	547	581	607	636	665	692	719	746	768	777
-62.5°	457	496	526	553	578	603	632	661	688	711	725
-65°	401	435	464	491	516	539	567	593	618	638	653
-67.5°	352	379	403	427	451	475	501	525	549	566	578
-70°	304	329	352	374	395	416	437	458	478	493	505
-72.5°	257	278	298	318	337	356	374	392	409	422	433
-75°	212	231	247	264	281	295	309	323	337	348	358
-77.5°	167	182	197	211	225	237	248	258	268	278	287
-80°	128	139	149	160	171	180	188	196	204	211	218
-82.5°	92	99	106	113	120	126	132	138	144	149	154
-85°	58	62	66	70	74	78	82	85	89	92	95
-87.5°	28	30	31	33	35	37	39	40	42	44	45
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-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°	4	5	5	5	5	5	4	4	3	3	3
60°	15	14	14	15	14	14	15	15	15	18	20
57.5°	73	68	63	58	63	68	73	75	73	71	67
55°	158	167	171	169	171	167	158	149	141	137	135
52.5°	225	229	228	223	228	229	225	218	207	195	183
50°	307	307	305	300	305	307	307	302	290	271	246
47.5°	431	438	441	440	441	438	431	420	398	369	342
45°	553	560	562	561	562	560	553	542	512	473	430
42.5°	696	707	710	707	710	707	696	678	645	592	532
40°	986	999	993	978	993	999	986	949	884	796	720
37.5°	1494	1542	1563	1563	1563	1542	1494	1427	1332	1160	1038
35°	2577	2749	2828	2730	2828	2749	2577	2360	2120	1870	1570
32.5°	4304	4609	4781	4781	4781	4609	4304	3889	3381	2864	2346
30°	6408	6790	7005	7051	7005	6790	6408	5875	5169	4390	3500
27.5°	8590	8986	9191	9161	9191	8986	8590	8023	7297	6285	5152
25°	10780	11079	11252	11257	11252	11079	10780	10226	9391	8399	7069
22.5°	14014	14644	14904	14973	14904	14644	14014	13087	12264	11014	9520
20°	17540	18151	18546	18569	18546	18151	17540	16690	15434	14028	12188
17.5°	20900	21203	21259	21284	21259	21203	20900	19991	18709	17272	14936
15°	24066	24173	24453	24488	24453	24173	24066	23232	21800	20220	17966
12.5°	25571	25668	25620	25490	25620	25668	25571	24942	23939	22314	20106
10°	26390	26253	26050	25804	26050	26253	26390	25937	25200	23944	21805
7.5°	26576	26424	26064	25708	26064	26424	26576	26617	26114	25063	23016
5°	26664	26217	25763	25330	25763	26217	26664	26812	26531	25662	23938
2.5°	26612	26081	25457	24991	25457	26081	26612	26834	26741	26114	24643
0°	26782	26245	25591	25417	25591	26245	26782	27038	26990	26487	25088
-2.5°	27255	26819	26478	26385	26478	26819	27255	27399	27289	26613	25116
-5°	28105	28009	27430	27566	27430	28009	28105	27982	27530	26509	24672
-7.5°	28927	28791	28545	28863	28545	28791	28927	28566	27681	26244	24130
-10°	29145	29101	29215	29497	29215	29101	29145	28495	27262	25532	23256
-12.5°	28476	28826	29220	29516	29220	28826	28476	27599	26325	24192	21707
-15°	26983	27700	28288	28568	28288	27700	26983	25939	24350	22355	19902
-17.5°	24783	25664	26361	26559	26361	25664	24783	23604	21937	20062	17849
-20°	22076	22971	23606	23859	23606	22971	22076	20869	19277	17519	15543

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CATALOG NUMBER: GFLD-SA4D-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°	19029	19903	20478	20781	20478	19903	19029	17829	16470	14904	13046
-25°	15937	16705	17215	17350	17215	16705	15937	14923	13699	12243	10528
-27.5°	12980	13598	13974	14015	13974	13598	12980	12069	10915	9584	8109
-30°	10005	10579	10905	11078	10905	10579	10005	9133	8084	7034	5858
-32.5°	7027	7482	7758	7830	7758	7482	7027	6411	5658	4892	4148
-35°	4685	4968	5143	5178	5143	4968	4685	4315	3853	3351	2953
-37.5°	3132	3271	3356	3397	3356	3271	3132	2941	2706	2427	2180
-40°	2219	2284	2320	2328	2320	2284	2219	2126	1999	1829	1672
-42.5°	1697	1730	1747	1752	1747	1730	1697	1645	1562	1461	1366
-45°	1372	1395	1408	1413	1408	1395	1372	1340	1294	1238	1176
-47.5°	1173	1188	1197	1200	1197	1188	1173	1153	1121	1078	1026
-50°	1035	1043	1047	1045	1047	1043	1035	1023	1004	971	935
-52.5°	948	954	955	953	955	954	948	940	927	898	866
-55°	884	888	888	886	888	888	884	878	869	842	812
-57.5°	834	839	838	832	838	839	834	827	819	793	764
-60°	785	791	791	789	791	791	785	777	768	746	719
-62.5°	736	746	747	745	747	746	736	725	711	688	661
-65°	666	678	677	673	677	678	666	653	638	618	593
-67.5°	588	597	597	595	597	597	588	578	566	549	525
-70°	515	524	525	523	525	524	515	505	493	478	458
-72.5°	443	452	454	455	454	452	443	433	422	409	392
-75°	367	375	375	373	375	375	367	358	348	337	323
-77.5°	295	303	302	300	302	303	295	287	278	268	258
-80°	225	231	230	228	230	231	225	218	211	204	196
-82.5°	159	164	162	160	162	164	159	154	149	144	138
-85°	98	101	101	102	101	101	98	95	92	89	85
-87.5°	47	48	46	44	46	48	47	45	44	42	40
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627426 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-722-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	1
62.5°	2	1	1	2	2	1	1	2	1	0	2
60°	17	12	15	16	12	9	13	11	5	4	3
57.5°	62	57	54	49	42	37	34	32	29	17	7
55°	134	120	104	94	88	75	62	54	50	40	27
52.5°	172	166	153	132	121	114	100	85	72	62	49
50°	227	222	210	190	171	157	145	125	106	91	74
47.5°	317	297	282	265	233	206	190	173	146	125	105
45°	399	371	347	324	295	261	232	209	185	160	139
42.5°	495	447	406	381	347	313	280	250	219	192	169
40°	644	563	510	459	418	369	336	300	262	224	200
37.5°	889	743	665	589	523	454	403	359	314	269	234
35°	1281	1068	880	760	660	563	484	426	372	321	273
32.5°	1814	1494	1193	990	812	678	577	500	426	370	320
30°	2679	2075	1599	1265	1021	815	669	569	483	414	364
27.5°	4011	2896	2199	1631	1265	999	791	640	536	458	401
25°	5670	4176	3020	2200	1595	1217	939	740	600	500	441
22.5°	7761	5973	4365	2876	2106	1569	1153	843	670	571	493
20°	10337	8035	6025	4274	2878	1980	1417	1020	793	655	550
17.5°	12872	10502	7821	5728	3955	2688	1791	1245	912	740	609
15°	15438	12643	9801	7349	5087	3281	2127	1463	1049	835	677
12.5°	17399	14494	11330	8648	5987	3911	2552	1741	1221	913	726
10°	18987	15976	12671	9668	6886	4556	2934	1949	1344	976	768
7.5°	20220	17039	13712	10542	7614	5093	3241	2112	1441	1033	802
5°	21201	17955	14551	11258	8184	5491	3480	2237	1513	1080	828
2.5°	21946	18632	15117	11730	8568	5767	3659	2342	1571	1126	853
0°	22349	18874	15603	12026	8818	5962	3780	2425	1612	1161	871
-2.5°	22413	18983	15547	11919	8807	5892	3751	2408	1617	1173	884
-5°	21817	18546	15105	11614	8515	5726	3675	2358	1605	1172	889
-7.5°	21169	17833	14388	11031	8015	5440	3528	2278	1578	1159	886
-10°	20183	16885	13602	10294	7376	5021	3277	2157	1526	1132	875
-12.5°	18763	15640	12575	9249	6597	4453	2934	2001	1448	1088	856
-15°	17013	14128	11110	8214	5788	3862	2581	1807	1344	1031	828
-17.5°	15194	12380	9516	6974	4850	3344	2329	1669	1252	977	796
-20°	13180	10484	7981	5743	3957	2764	2011	1501	1165	933	770

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REPORT NUMBER: P627426 (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°
-22.5°	10871	8665	6458	4447	3229	2367	1757	1338	1066	876	740
-25°	8691	6833	4927	3619	2628	1955	1527	1219	994	825	706
-27.5°	6574	4946	3833	2841	2135	1687	1346	1094	914	784	680
-30°	4710	3730	2904	2229	1788	1437	1181	999	854	741	650
-32.5°	3375	2783	2192	1814	1486	1245	1063	912	798	704	626
-35°	2481	2091	1746	1487	1268	1104	957	848	750	667	603
-37.5°	1893	1629	1437	1251	1113	987	885	792	704	638	579
-40°	1511	1341	1211	1083	990	905	824	743	675	609	555
-42.5°	1266	1152	1047	972	900	839	774	709	646	585	530
-45°	1101	1020	945	888	832	782	734	675	616	559	505
-47.5°	978	925	870	821	778	735	691	640	583	530	483
-50°	896	854	811	769	732	692	649	600	550	505	458
-52.5°	832	797	762	726	691	653	608	565	521	476	430
-55°	779	748	718	688	657	618	577	534	489	445	399
-57.5°	734	705	679	651	622	585	543	500	456	413	368
-60°	692	665	636	607	581	547	504	462	423	382	341
-62.5°	632	603	578	553	526	496	457	419	384	349	310
-65°	567	539	516	491	464	435	401	371	341	310	275
-67.5°	501	475	451	427	403	379	352	325	296	266	234
-70°	437	416	395	374	352	329	304	278	250	223	197
-72.5°	374	356	337	318	298	278	257	233	210	186	164
-75°	309	295	281	264	247	231	212	192	173	154	136
-77.5°	248	237	225	211	197	182	167	152	137	122	108
-80°	188	180	171	160	149	139	128	115	103	91	80
-82.5°	132	126	120	113	106	99	92	83	74	65	57
-85°	82	78	74	70	66	62	58	53	47	41	36
-87.5°	39	37	35	33	31	30	28	25	22	20	17
-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	0	0	0	0	0	0	0
67.5°	0	0	0	1	2	1	0	1	1	0	0
65°	2	1	0	1	2	3	2	1	2	1	0
62.5°	3	4	3	2	3	4	4	3	2	2	1
60°	3	4	5	4	3	4	5	4	3	3	2
57.5°	6	5	5	5	4	4	5	5	4	4	3
55°	13	8	7	7	5	5	5	5	5	4	5
52.5°	33	18	11	9	7	5	5	5	5	5	5
50°	56	38	21	13	10	8	6	6	5	5	5
47.5°	83	61	39	21	15	10	8	7	5	5	5
45°	114	87	60	37	21	16	10	8	6	5	6
42.5°	148	117	85	53	35	24	12	10	7	5	6
40°	178	150	112	78	51	33	20	12	9	6	7
37.5°	208	181	144	103	67	47	30	13	11	8	7
35°	239	209	175	129	90	59	40	18	14	10	7
32.5°	270	236	199	157	112	71	51	29	17	12	7
30°	308	261	223	182	134	90	62	39	21	13	8
27.5°	347	285	245	204	156	109	74	48	26	16	10
25°	384	316	265	223	177	128	86	56	33	20	11
22.5°	422	349	285	241	197	147	101	66	40	23	13
20°	463	381	305	262	215	165	117	77	46	27	14
17.5°	506	415	337	284	233	181	132	87	52	32	16
15°	550	450	367	305	250	195	145	98	57	36	18
12.5°	589	481	394	326	267	208	158	108	62	40	21
10°	622	509	418	347	282	219	169	118	70	44	25
7.5°	651	533	439	366	297	231	178	125	78	47	29
5°	674	553	454	380	310	246	186	132	86	49	32
2.5°	693	569	466	392	321	259	193	136	94	51	36
0°	707	581	474	402	329	271	198	140	102	53	39
-2.5°	713	589	488	409	341	277	205	148	106	60	40
-5°	715	594	498	415	350	281	211	154	110	67	41
-7.5°	715	597	504	419	357	284	215	160	113	72	42
-10°	712	596	506	425	359	287	219	164	116	77	43
-12.5°	702	593	505	428	360	290	224	167	119	80	43
-15°	687	586	503	427	359	292	227	169	120	81	44
-17.5°	667	577	499	423	358	292	228	168	120	81	46
-20°	653	567	493	416	356	291	228	166	120	80	47

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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°	637	557	484	410	353	289	226	162	118	78	48
-25°	616	545	473	407	348	285	221	156	116	77	49
-27.5°	598	531	461	401	341	280	213	153	112	75	49
-30°	581	516	451	392	332	271	203	148	109	74	48
-32.5°	562	501	440	380	322	263	192	142	106	73	47
-35°	543	485	425	366	311	251	185	135	103	71	46
-37.5°	522	466	408	352	300	239	181	133	99	68	44
-40°	501	446	390	339	287	227	175	131	95	64	43
-42.5°	479	426	374	327	273	218	167	126	90	61	41
-45°	457	407	358	310	260	208	160	120	85	58	39
-47.5°	435	386	338	290	246	196	151	113	78	55	38
-50°	410	361	313	271	228	183	140	104	75	53	36
-52.5°	381	331	291	252	210	167	129	95	71	50	35
-55°	349	306	271	232	191	152	117	89	66	48	32
-57.5°	326	287	250	211	173	137	107	83	62	45	31
-60°	302	263	227	189	153	123	98	76	58	42	29
-62.5°	273	237	200	165	135	110	89	70	53	39	27
-65°	239	205	171	144	119	98	81	63	48	35	25
-67.5°	202	174	146	122	103	86	71	56	42	31	23
-70°	171	146	123	105	89	75	61	48	37	28	20
-72.5°	143	123	104	88	75	63	51	40	31	23	17
-75°	118	102	86	73	62	51	42	33	26	19	15
-77.5°	94	80	68	58	49	41	33	26	20	17	14
-80°	71	61	53	45	38	31	25	21	18	15	12
-82.5°	50	44	38	33	28	24	20	17	14	12	10
-85°	32	29	25	22	19	17	14	12	10	8	7
-87.5°	16	14	13	11	10	8	7	6	5	4	3
-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	1	1	1	0	0	0
65°	1	2	2	1	0	0	0
62.5°	1	2	2	2	0	0	0
60°	1	2	3	2	0	0	0
57.5°	2	2	3	3	0	0	0
55°	3	2	3	3	1	0	0
52.5°	4	2	3	4	1	0	0
50°	4	3	4	4	1	0	0
47.5°	5	3	4	5	2	0	0
45°	5	4	4	5	2	0	0
42.5°	6	4	4	5	2	0	0
40°	6	5	4	5	3	0	0
37.5°	7	5	4	5	3	0	0
35°	8	5	5	5	3	0	0
32.5°	8	6	5	5	3	0	0
30°	8	6	5	5	4	0	0
27.5°	9	7	5	5	4	0	0
25°	9	7	5	5	4	0	0
22.5°	9	8	5	5	4	0	0
20°	10	8	5	5	4	0	0
17.5°	10	9	5	5	4	0	0
15°	10	9	5	5	4	0	0
12.5°	11	9	5	5	5	0	0
10°	12	9	5	5	5	0	0
7.5°	12	9	5	5	5	0	0
5°	13	10	5	5	5	0	0
2.5°	14	10	5	5	5	0	0
0°	14	10	5	5	5	0	0
-2.5°	17	10	5	5	5	0	0
-5°	19	11	6	5	5	0	0
-7.5°	22	11	6	5	5	0	0
-10°	24	11	6	5	5	0	0
-12.5°	25	12	7	5	5	1	0
-15°	26	12	7	5	5	1	0
-17.5°	27	12	7	5	4	1	0
-20°	28	12	7	5	4	1	0

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**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	28	13	7	5	4	1	0
-25°	28	13	7	5	4	1	0
-27.5°	27	14	7	5	4	1	0
-30°	27	15	7	5	4	1	0
-32.5°	26	15	7	5	4	1	0
-35°	26	16	8	5	4	1	0
-37.5°	27	16	8	5	4	1	0
-40°	27	16	8	5	4	1	0
-42.5°	26	16	8	5	4	1	0
-45°	26	16	9	5	4	1	0
-47.5°	25	16	9	5	4	1	0
-50°	24	15	9	6	4	1	0
-52.5°	24	15	9	6	4	1	0
-55°	23	14	9	6	4	1	0
-57.5°	22	14	9	6	4	1	0
-60°	20	13	8	6	4	1	0
-62.5°	19	12	8	6	4	1	0
-65°	17	12	8	6	4	1	0
-67.5°	16	11	8	6	3	1	0
-70°	14	10	8	6	3	1	0
-72.5°	13	10	7	5	3	1	0
-75°	12	9	7	5	2	1	0
-77.5°	11	9	6	4	2	1	0
-80°	10	7	5	3	2	0	0
-82.5°	7	5	4	2	1	0	0
-85°	5	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)