

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: P627736 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: GFLD-SA5E-727-U-MWR-VSR-XX

Issue Date: 12/7/2022

Test Information

Test Method: LM-79-2019
Report Number: P627736 (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-SA5E-727-U-MWR-VSR-XX
Description: GALLEON FLOOD, FIVE LIGHT SQAURE, MEDIUM WIDE SYMMETRICAL ROUND N5 WITH VISOR
Light Source: (80) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

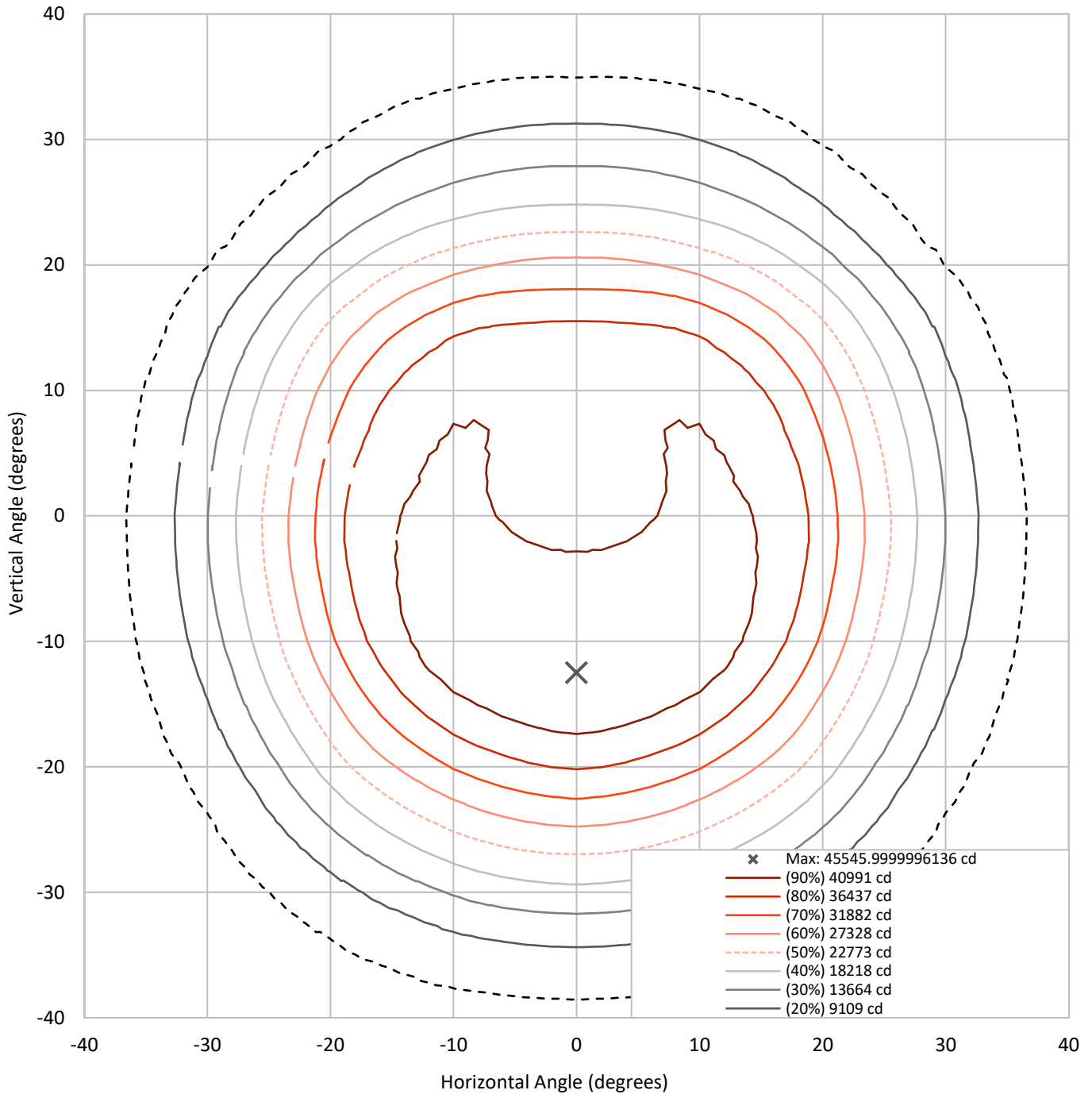
Lumens per Lamp:	N/A	NEMA Type:	4H x 5V
Luminaire Lumens:	32509.9 lumens	Max Intensity:	45546 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x -12.5°V
Efficacy:	103.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	46.4°H x 49.6°V	Field Angle (10%):	69.9°H x 73.3°V
Beam Lumens:	21775 lumens	Field Lumens:	29302.7 lumens
Beam Efficiency:	67.0%	Field Efficiency:	90.1%
Input Watts (W):	313.7		
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: P627736 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA5E-727-U-MWR-VSR-XX

Iso-Candela Plot





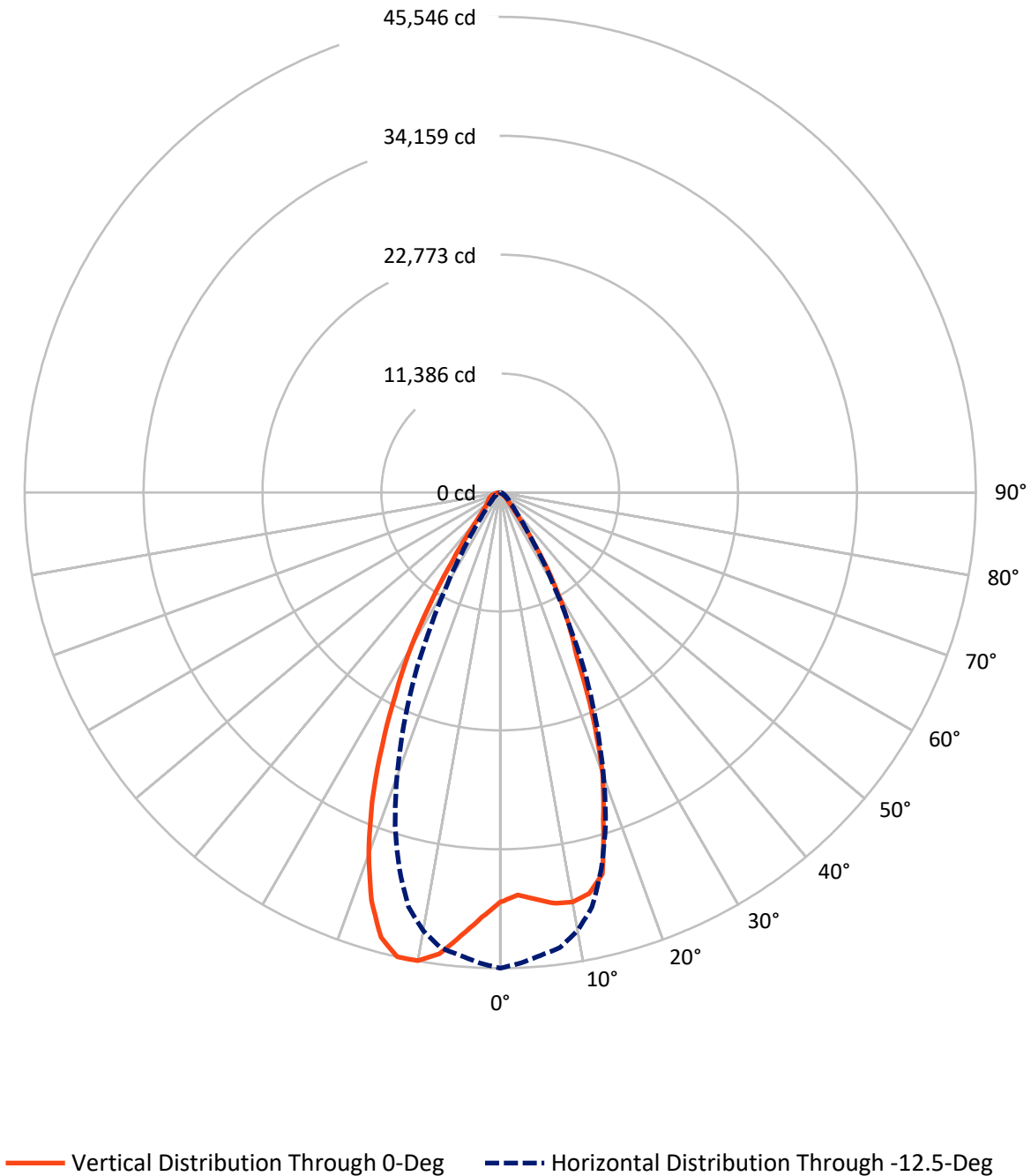
REPORT NUMBER: P627736 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

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				
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	1.1	2.6	4.5	6.2	7.2	7.2	6.2	4.5	2.6	1.1	0.2		0.1			
40	0.2	0.2	1.3	4.6	9.1	14.9	22.3	27.3	27.3	22.3	14.9	9.1	4.6	1.3	0.2				
30		0.6	3.6	9.4	19.5	42.2	96.0	146.5	146.5	96.0	42.2	19.5	9.4	3.6	0.6				
20	0.4	1.3	6.1	15.2	40.8	151.1	389.1	544.0	544.0	389.1	151.1	40.8	15.2	6.1	1.3				
10		2.1	8.5	23.5	97.1	419.7	875.5	1084.0	1084.0	875.5	419.7	97.1	23.5	8.5	2.1				
0	0.7	2.8	10.5	30.3	154.6	618.0	1128.8	1223.8	1223.8	1128.8	618.0	154.6	30.3	10.5	2.8				
-10		3.3	11.6	32.4	161.7	638.3	1169.5	1298.9	1298.9	1169.5	638.3	161.7	32.4	11.6	3.3				
-20	0.9	3.6	11.7	29.4	115.7	475.2	986.6	1259.7	1259.7	986.6	475.2	115.7	29.4	11.7	3.6				
-30		3.5	11.2	24.5	64.7	230.6	549.7	773.6	773.6	549.7	230.6	64.7	24.5	11.2	3.5				
-40	0.8	3.0	10.0	20.3	38.6	82.1	171.8	254.9	254.9	171.8	82.1	38.6	20.3	10.0	3.0				
-50		2.5	8.4	16.9	28.2	41.7	58.6	69.5	69.5	58.6	41.7	28.2	16.9	8.4	2.5				
-60	0.6	1.9	6.3	13.3	22.2	30.7	38.3	41.9	41.9	38.3	30.7	22.2	13.3	6.3	1.9				
-70		1.3	4.0	9.1	15.6	21.9	27.8	31.1	31.1	27.8	21.9	15.6	9.1	4.0	1.3				
-80	0.2	3.6		16.4		34.9		44.7		34.9		16.4		3.6					
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

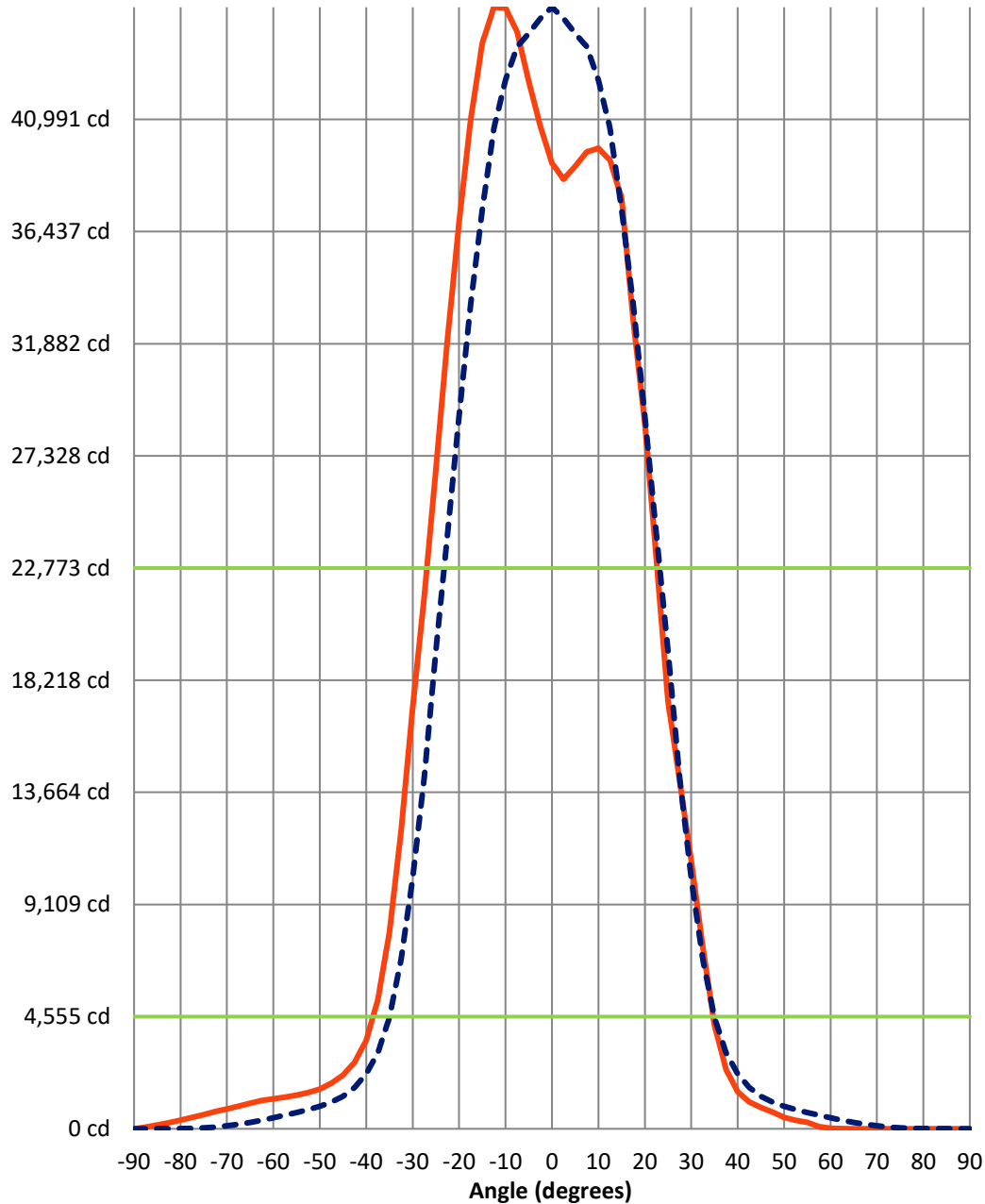
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 46.4°
 V Angle: 49.6°
 Lumens: 21775
 Efficiency: 67.0%

Field:
 H Angle: 69.9°
 V Angle: 73.3°
 Lumens: 29302.7
 Efficiency: 90.1%

Spill:
 Lumens: 3207.2
 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	2	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	7	8
55°	0	0	1	5	5	4	4	7	7	8	8
52.5°	0	0	2	6	5	4	6	8	7	8	8
50°	0	0	2	6	5	5	7	8	8	8	9
47.5°	0	0	3	7	6	5	8	8	8	8	10
45°	0	0	3	7	6	6	8	9	8	9	12
42.5°	0	0	4	7	6	7	9	10	8	11	15
40°	0	0	4	8	6	7	10	10	10	14	18
37.5°	0	0	4	8	7	7	11	11	12	17	21
35°	0	0	5	8	7	8	12	11	15	21	28
32.5°	0	0	5	8	7	9	13	11	18	26	45
30°	0	0	5	8	7	10	13	12	21	33	60
27.5°	0	0	6	8	8	10	13	15	25	40	74
25°	0	0	6	8	8	11	14	17	30	50	87
22.5°	0	0	6	8	8	12	14	20	36	61	102
20°	0	0	7	8	8	13	15	22	42	72	118
17.5°	0	0	7	8	8	13	15	24	49	81	134
15°	0	0	7	8	8	14	16	28	55	89	151
12.5°	0	0	7	8	8	14	17	33	62	96	167
10°	0	0	7	8	8	14	18	38	67	107	182
7.5°	0	0	7	8	8	15	19	44	72	120	194
5°	0	0	7	8	8	15	20	49	76	133	203
2.5°	0	0	7	8	8	15	21	55	79	145	211
0°	0	0	8	8	8	15	22	60	82	157	217
-2.5°	0	0	7	8	8	16	26	62	93	164	228
-5°	0	0	7	8	9	16	30	64	103	170	238
-7.5°	0	0	7	8	9	17	34	65	111	175	247
-10°	0	1	7	8	10	18	37	66	118	179	253
-12.5°	0	1	7	8	10	18	39	67	124	183	258
-15°	0	1	7	8	11	19	41	68	125	185	260
-17.5°	0	1	7	8	11	19	42	70	125	186	260
-20°	0	1	7	8	11	19	42	73	123	185	257

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REPORT NUMBER: P627736 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: GFLD-SA5E-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	7	8	11	19	43	75	121	182	250
-25°	0	1	7	8	11	20	43	76	119	178	241
-27.5°	0	2	7	8	11	22	42	75	116	173	235
-30°	0	2	6	8	11	23	42	74	114	168	228
-32.5°	0	2	6	8	12	24	40	73	113	163	219
-35°	0	2	6	8	12	24	41	71	109	158	208
-37.5°	0	2	6	8	12	25	41	69	105	153	205
-40°	0	2	6	8	12	25	41	66	98	147	202
-42.5°	0	2	6	8	13	25	41	63	94	139	195
-45°	0	2	6	8	13	25	40	60	90	131	186
-47.5°	0	2	6	8	14	24	38	59	85	121	174
-50°	0	2	6	9	14	23	37	56	81	116	161
-52.5°	0	2	6	9	14	23	36	53	77	110	147
-55°	0	2	6	9	14	22	35	50	74	102	138
-57.5°	0	2	6	9	13	21	33	48	69	96	128
-60°	0	2	6	9	13	20	31	45	64	89	118
-62.5°	0	2	6	9	13	19	29	42	60	81	108
-65°	0	1	6	9	13	18	27	39	54	74	98
-67.5°	0	1	5	9	12	17	24	35	48	65	86
-70°	0	1	5	9	12	16	22	31	42	56	74
-72.5°	0	1	4	8	12	15	20	26	36	48	62
-75°	0	1	4	7	11	14	18	23	30	39	51
-77.5°	0	1	3	6	10	13	17	21	26	32	39
-80°	0	1	3	5	8	11	15	18	22	27	32
-82.5°	0	0	2	4	6	8	11	15	19	22	26
-85°	0	0	1	2	4	6	8	10	13	16	19
-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: P627736 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-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	1	0	0	0	0	0	0	0
67.5°	0	2	3	2	0	0	0	0	0	0	0
65°	4	5	4	2	0	2	3	2	0	0	0
62.5°	7	6	4	3	4	6	4	3	1	2	3
60°	8	6	5	6	8	7	5	5	6	7	18
57.5°	8	7	7	8	8	8	9	11	27	45	49
55°	8	7	8	10	11	13	20	42	62	77	83
52.5°	9	8	11	14	17	28	51	76	96	111	131
50°	10	12	15	21	33	58	87	114	140	164	192
47.5°	12	16	22	33	60	93	128	162	193	226	267
45°	16	24	32	58	92	134	177	215	247	285	322
42.5°	19	36	55	82	131	180	229	261	296	338	386
40°	31	51	78	120	173	232	275	309	346	405	464
37.5°	46	72	104	158	222	279	320	362	416	484	554
35°	62	92	139	200	270	323	369	421	495	573	657
32.5°	79	110	172	242	308	365	416	493	571	658	772
30°	96	139	206	281	344	403	476	561	639	745	879
27.5°	114	168	241	314	377	440	535	618	707	828	988
25°	133	198	273	344	410	488	593	681	772	926	1143
22.5°	156	227	304	372	440	539	652	761	881	1034	1301
20°	181	254	332	405	470	588	714	848	1010	1224	1573
17.5°	203	279	359	438	520	640	781	940	1142	1407	1921
15°	224	301	386	471	567	694	849	1044	1288	1618	2257
12.5°	243	321	411	504	609	743	909	1121	1409	1884	2687
10°	260	338	436	535	645	785	960	1185	1507	2075	3008
7.5°	274	357	459	565	677	823	1004	1237	1594	2224	3258
5°	287	379	478	587	701	853	1041	1278	1667	2334	3451
2.5°	297	400	495	605	718	878	1069	1316	1737	2424	3615
0°	306	418	508	620	732	896	1090	1344	1792	2487	3741
-2.5°	317	428	525	631	753	909	1100	1365	1810	2496	3716
-5°	326	434	540	640	769	917	1103	1372	1808	2476	3639
-7.5°	332	438	551	647	778	921	1104	1368	1789	2435	3515
-10°	338	443	554	656	781	920	1098	1350	1746	2354	3328
-12.5°	345	448	555	660	780	915	1084	1321	1679	2234	3087
-15°	350	450	554	659	776	905	1061	1278	1590	2073	2789
-17.5°	352	451	552	653	770	890	1029	1228	1508	1933	2576
-20°	352	449	549	642	761	875	1008	1189	1439	1798	2316

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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°	348	446	544	633	746	859	983	1141	1352	1645	2064
-25°	341	440	537	628	730	841	951	1090	1273	1533	1882
-27.5°	329	432	526	618	712	819	923	1049	1209	1410	1688
-30°	313	419	512	604	696	797	896	1003	1144	1318	1542
-32.5°	297	405	496	586	678	773	868	967	1087	1232	1407
-35°	285	387	480	565	656	748	838	930	1029	1158	1308
-37.5°	279	368	463	543	629	719	806	894	985	1086	1222
-40°	269	350	443	524	601	689	773	856	940	1042	1146
-42.5°	258	336	422	504	578	658	738	818	903	996	1094
-45°	247	320	401	478	553	627	705	780	863	951	1042
-47.5°	233	302	380	448	521	596	671	745	818	900	988
-50°	216	282	352	418	483	557	632	707	779	848	925
-52.5°	199	257	324	389	448	511	588	664	735	805	872
-55°	180	234	295	358	418	473	539	616	687	754	824
-57.5°	165	211	266	326	385	442	503	568	638	704	771
-60°	152	189	236	292	351	407	466	526	589	653	713
-62.5°	138	170	209	255	309	366	421	478	538	592	646
-65°	124	151	183	221	265	316	369	424	478	526	572
-67.5°	110	133	159	188	226	268	311	361	411	457	502
-70°	95	115	137	162	190	225	264	304	344	385	428
-72.5°	79	97	116	136	161	190	221	253	288	324	360
-75°	64	79	95	113	133	157	183	210	238	266	296
-77.5°	51	63	76	90	105	124	144	166	189	211	234
-80°	39	47	58	69	82	95	109	124	140	159	178
-82.5°	31	37	44	51	59	68	77	88	100	114	128
-85°	22	26	30	34	39	44	50	56	64	72	81
-87.5°	11	13	15	17	19	22	24	26	30	34	38
-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	3	3	2	2	4	5	5	5	6
60°	20	14	19	24	24	18	27	30	28	23	23
57.5°	52	57	65	76	84	88	95	103	109	112	115
55°	96	115	135	145	161	185	207	208	212	218	230
52.5°	154	176	186	204	236	256	266	283	302	320	336
50°	223	242	265	293	323	343	350	380	418	448	466
47.5°	293	318	359	409	436	458	489	528	570	614	648
45°	358	404	456	500	535	573	615	664	729	790	836
42.5°	432	483	536	588	626	690	763	821	914	996	1047
40°	519	569	645	708	787	868	994	1111	1229	1364	1464
37.5°	622	701	807	910	1026	1146	1372	1602	1791	2055	2202
35°	747	868	1019	1172	1359	1648	1977	2422	2885	3271	3642
32.5°	891	1046	1253	1528	1841	2305	2800	3620	4419	5218	6002
30°	1032	1258	1575	1952	2468	3201	4134	5401	6774	7977	9065
27.5°	1221	1541	1953	2517	3394	4469	6190	7950	9699	11259	12381
25°	1449	1878	2461	3394	4660	6444	8750	10908	12960	14491	15780
22.5°	1779	2422	3249	4438	6736	9216	11976	14691	16996	18924	20195
20°	2186	3056	4441	6595	9297	12399	15951	18807	21646	23816	25754
17.5°	2763	4148	6103	8839	12068	16206	19863	23048	26652	28870	30848
15°	3282	5062	7849	11340	15124	19510	23822	27722	31202	33639	35850
12.5°	3939	6034	9238	13344	17483	22365	26848	31024	34432	36941	38487
10°	4527	7031	10625	14919	19552	24653	29299	33646	36947	38886	40024
7.5°	5001	7858	11749	16267	21159	26293	31201	35515	38674	40296	41072
5°	5369	8472	12629	17373	22453	27706	32715	36939	39599	40940	41374
2.5°	5645	8900	13221	18100	23327	28750	33864	38027	40296	41264	41407
0°	5832	9200	13606	18557	24076	29124	34486	38713	40871	41648	41722
-2.5°	5788	9092	13589	18392	23990	29293	34585	38757	41066	42110	42279
-5°	5670	8836	13139	17921	23308	28618	33666	38071	40905	42481	43179
-7.5°	5443	8394	12368	17022	22202	27518	32665	37235	40497	42714	44080
-10°	5056	7748	11382	15884	20990	26054	31144	35886	39399	42068	43971
-12.5°	4528	6871	10180	14273	19405	24134	28952	33496	37330	40622	42588
-15°	3983	5959	8931	12675	17144	21801	26252	30711	34496	37574	40026
-17.5°	3594	5160	7484	10761	14685	19103	23446	27542	30957	33851	36423
-20°	3102	4265	6106	8861	12316	16178	20338	23983	27033	29746	32203



REPORT NUMBER: P627736 (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°	2711	3653	4982	6862	9965	13371	16775	20131	22998	25414	27511
-25°	2356	3017	4056	5585	7602	10544	13412	16246	18893	21139	23027
-27.5°	2077	2603	3295	4383	5915	7631	10144	12513	14788	16842	18623
-30°	1823	2217	2759	3440	4481	5756	7267	9039	10854	12474	14093
-32.5°	1641	1921	2294	2799	3382	4295	5208	6400	7549	8732	9892
-35°	1477	1703	1956	2294	2694	3227	3829	4557	5171	5945	6658
-37.5°	1365	1524	1717	1931	2217	2514	2922	3364	3745	4176	4538
-40°	1272	1397	1528	1671	1868	2069	2332	2581	2822	3085	3281
-42.5°	1194	1294	1388	1500	1616	1777	1954	2108	2255	2410	2538
-45°	1133	1207	1283	1370	1458	1574	1700	1815	1911	1997	2067
-47.5°	1066	1133	1201	1267	1343	1428	1510	1584	1663	1730	1779
-50°	1001	1068	1129	1187	1252	1318	1383	1442	1499	1549	1579
-52.5°	939	1007	1067	1120	1175	1230	1284	1337	1386	1430	1451
-55°	891	954	1014	1062	1109	1155	1203	1253	1299	1342	1355
-57.5°	838	902	960	1004	1047	1089	1133	1179	1224	1264	1277
-60°	777	845	896	937	981	1026	1068	1110	1151	1185	1200
-62.5°	705	765	812	853	893	930	975	1020	1062	1097	1118
-65°	619	671	716	758	796	832	875	915	954	985	1007
-67.5°	544	585	622	659	696	733	773	811	847	874	892
-70°	469	507	542	577	610	642	674	706	738	761	779
-72.5°	396	429	460	490	520	549	577	604	631	651	668
-75°	327	356	382	408	433	456	477	499	519	537	552
-77.5°	258	281	303	325	347	365	382	398	414	429	443
-80°	198	214	231	247	264	277	290	303	315	326	337
-82.5°	142	153	163	174	185	195	204	213	222	230	238
-85°	90	96	102	108	114	120	126	131	137	142	147
-87.5°	43	46	48	51	54	57	60	62	65	67	70
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627736 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: GFLD-SA5E-727-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°	7	7	7	7	7	7	7	6	5	5	5
60°	23	22	22	22	22	22	23	23	23	28	30
57.5°	112	105	97	90	97	105	112	115	112	109	103
55°	244	258	263	261	263	258	244	230	218	212	208
52.5°	347	353	351	344	351	353	347	336	320	302	283
50°	474	475	471	463	471	475	474	466	448	418	380
47.5°	666	676	680	680	680	676	666	648	614	570	528
45°	854	864	867	866	867	864	854	836	790	729	664
42.5°	1074	1090	1096	1090	1096	1090	1074	1047	996	914	821
40°	1522	1541	1532	1509	1532	1541	1522	1464	1364	1229	1111
37.5°	2305	2380	2411	2412	2411	2380	2305	2202	2055	1791	1602
35°	3976	4242	4365	4212	4365	4242	3976	3642	3271	2885	2422
32.5°	6641	7112	7378	7378	7378	7112	6641	6002	5218	4419	3620
30°	9888	10478	10810	10881	10810	10478	9888	9065	7977	6774	5401
27.5°	13255	13865	14183	14137	14183	13865	13255	12381	11259	9699	7950
25°	16634	17096	17363	17370	17363	17096	16634	15780	14491	12960	10908
22.5°	21625	22598	22998	23105	22998	22598	21625	20195	18924	16996	14691
20°	27066	28009	28617	28654	28617	28009	27066	25754	23816	21646	18807
17.5°	32250	32718	32804	32843	32804	32718	32250	30848	28870	26652	23048
15°	37137	37301	37733	37787	37733	37301	37137	35850	33639	31202	27722
12.5°	39458	39608	39534	39333	39534	39608	39458	38487	36941	34432	31024
10°	40723	40511	40197	39818	40197	40511	40723	40024	38886	36947	33646
7.5°	41009	40774	40219	39669	40219	40774	41009	41072	40296	38674	35515
5°	41145	40456	39755	39086	39755	40456	41145	41374	40940	39599	36939
2.5°	41065	40245	39282	38564	39282	40245	41065	41407	41264	40296	38027
0°	41327	40498	39490	39221	39490	40498	41327	41722	41648	40871	38713
-2.5°	42056	41384	40858	40714	40858	41384	42056	42279	42110	41066	38757
-5°	43369	43220	42326	42536	42326	43220	43369	43179	42481	40905	38071
-7.5°	44637	44426	44048	44538	44048	44426	44637	44080	42714	40497	37235
-10°	44974	44905	45082	45516	45082	44905	44974	43971	42068	39399	35886
-12.5°	43940	44482	45089	45546	45089	44482	43940	42588	40622	37330	33496
-15°	41637	42744	43651	44082	43651	42744	41637	40026	37574	34496	30711
-17.5°	38243	39601	40677	40983	40677	39601	38243	36423	33851	30957	27542
-20°	34065	35447	36425	36816	36425	35447	34065	32203	29746	27033	23983

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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°	29364	30712	31599	32067	31599	30712	29364	27511	25414	22998	20131
-25°	24592	25778	26565	26772	26565	25778	24592	23027	21139	18893	16246
-27.5°	20029	20982	21563	21627	21563	20982	20029	18623	16842	14788	12513
-30°	15439	16324	16827	17094	16827	16324	15439	14093	12474	10854	9039
-32.5°	10843	11545	11971	12083	11971	11545	10843	9892	8732	7549	6400
-35°	7229	7666	7936	7991	7936	7666	7229	6658	5945	5171	4557
-37.5°	4834	5047	5178	5242	5178	5047	4834	4538	4176	3745	3364
-40°	3424	3525	3580	3592	3580	3525	3424	3281	3085	2822	2581
-42.5°	2619	2670	2696	2703	2696	2670	2619	2538	2410	2255	2108
-45°	2116	2152	2173	2181	2173	2152	2116	2067	1997	1911	1815
-47.5°	1811	1834	1847	1852	1847	1834	1811	1779	1730	1663	1584
-50°	1597	1610	1615	1613	1615	1610	1597	1579	1549	1499	1442
-52.5°	1463	1472	1474	1471	1474	1472	1463	1451	1430	1386	1337
-55°	1363	1369	1370	1367	1370	1369	1363	1355	1342	1299	1253
-57.5°	1287	1295	1292	1285	1292	1295	1287	1277	1264	1224	1179
-60°	1211	1220	1221	1217	1221	1220	1211	1200	1185	1151	1110
-62.5°	1136	1151	1153	1150	1153	1151	1136	1118	1097	1062	1020
-65°	1027	1046	1045	1038	1045	1046	1027	1007	985	954	915
-67.5°	907	921	922	919	922	921	907	892	874	847	811
-70°	795	809	810	807	810	809	795	779	761	738	706
-72.5°	684	698	701	702	701	698	684	668	651	631	604
-75°	566	579	578	575	578	579	566	552	537	519	499
-77.5°	456	468	466	463	466	468	456	443	429	414	398
-80°	347	357	354	351	354	357	347	337	326	315	303
-82.5°	246	253	250	246	250	253	246	238	230	222	213
-85°	152	156	157	157	157	156	152	147	142	137	131
-87.5°	72	74	71	67	71	74	72	70	67	65	62
-90°	0	0	0	0	0	0	0	0	0	0	0



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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	2
62.5°	4	2	2	3	3	2	2	3	2	1	3
60°	27	18	24	24	19	14	20	18	7	6	5
57.5°	95	88	84	76	65	57	52	49	45	27	11
55°	207	185	161	145	135	115	96	83	77	62	42
52.5°	266	256	236	204	186	176	154	131	111	96	76
50°	350	343	323	293	265	242	223	192	164	140	114
47.5°	489	458	436	409	359	318	293	267	226	193	162
45°	615	573	535	500	456	404	358	322	285	247	215
42.5°	763	690	626	588	536	483	432	386	338	296	261
40°	994	868	787	708	645	569	519	464	405	346	309
37.5°	1372	1146	1026	910	807	701	622	554	484	416	362
35°	1977	1648	1359	1172	1019	868	747	657	573	495	421
32.5°	2800	2305	1841	1528	1253	1046	891	772	658	571	493
30°	4134	3201	2468	1952	1575	1258	1032	879	745	639	561
27.5°	6190	4469	3394	2517	1953	1541	1221	988	828	707	618
25°	8750	6444	4660	3394	2461	1878	1449	1143	926	772	681
22.5°	11976	9216	6736	4438	3249	2422	1779	1301	1034	881	761
20°	15951	12399	9297	6595	4441	3056	2186	1573	1224	1010	848
17.5°	19863	16206	12068	8839	6103	4148	2763	1921	1407	1142	940
15°	23822	19510	15124	11340	7849	5062	3282	2257	1618	1288	1044
12.5°	26848	22365	17483	13344	9238	6034	3939	2687	1884	1409	1121
10°	29299	24653	19552	14919	10625	7031	4527	3008	2075	1507	1185
7.5°	31201	26293	21159	16267	11749	7858	5001	3258	2224	1594	1237
5°	32715	27706	22453	17373	12629	8472	5369	3451	2334	1667	1278
2.5°	33864	28750	23327	18100	13221	8900	5645	3615	2424	1737	1316
0°	34486	29124	24076	18557	13606	9200	5832	3741	2487	1792	1344
-2.5°	34585	29293	23990	18392	13589	9092	5788	3716	2496	1810	1365
-5°	33666	28618	23308	17921	13139	8836	5670	3639	2476	1808	1372
-7.5°	32665	27518	22202	17022	12368	8394	5443	3515	2435	1789	1368
-10°	31144	26054	20990	15884	11382	7748	5056	3328	2354	1746	1350
-12.5°	28952	24134	19405	14273	10180	6871	4528	3087	2234	1679	1321
-15°	26252	21801	17144	12675	8931	5959	3983	2789	2073	1590	1278
-17.5°	23446	19103	14685	10761	7484	5160	3594	2576	1933	1508	1228
-20°	20338	16178	12316	8861	6106	4265	3102	2316	1798	1439	1189

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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°	16775	13371	9965	6862	4982	3653	2711	2064	1645	1352	1141
-25°	13412	10544	7602	5585	4056	3017	2356	1882	1533	1273	1090
-27.5°	10144	7631	5915	4383	3295	2603	2077	1688	1410	1209	1049
-30°	7267	5756	4481	3440	2759	2217	1823	1542	1318	1144	1003
-32.5°	5208	4295	3382	2799	2294	1921	1641	1407	1232	1087	967
-35°	3829	3227	2694	2294	1956	1703	1477	1308	1158	1029	930
-37.5°	2922	2514	2217	1931	1717	1524	1365	1222	1086	985	894
-40°	2332	2069	1868	1671	1528	1397	1272	1146	1042	940	856
-42.5°	1954	1777	1616	1500	1388	1294	1194	1094	996	903	818
-45°	1700	1574	1458	1370	1283	1207	1133	1042	951	863	780
-47.5°	1510	1428	1343	1267	1201	1133	1066	988	900	818	745
-50°	1383	1318	1252	1187	1129	1068	1001	925	848	779	707
-52.5°	1284	1230	1175	1120	1067	1007	939	872	805	735	664
-55°	1203	1155	1109	1062	1014	954	891	824	754	687	616
-57.5°	1133	1089	1047	1004	960	902	838	771	704	638	568
-60°	1068	1026	981	937	896	845	777	713	653	589	526
-62.5°	975	930	893	853	812	765	705	646	592	538	478
-65°	875	832	796	758	716	671	619	572	526	478	424
-67.5°	773	733	696	659	622	585	544	502	457	411	361
-70°	674	642	610	577	542	507	469	428	385	344	304
-72.5°	577	549	520	490	460	429	396	360	324	288	253
-75°	477	456	433	408	382	356	327	296	266	238	210
-77.5°	382	365	347	325	303	281	258	234	211	189	166
-80°	290	277	264	247	231	214	198	178	159	140	124
-82.5°	204	195	185	174	163	153	142	128	114	100	88
-85°	126	120	114	108	102	96	90	81	72	64	56
-87.5°	60	57	54	51	48	46	43	38	34	30	26
-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	1	1	0	0	0	0	0	0
67.5°	0	0	0	2	3	2	0	1	1	0	0
65°	3	2	0	2	4	5	4	2	2	2	0
62.5°	4	6	4	3	4	6	7	5	4	3	1
60°	5	7	8	6	5	6	8	7	5	5	3
57.5°	9	8	8	8	7	7	8	8	7	6	5
55°	20	13	11	10	8	7	8	8	8	7	7
52.5°	51	28	17	14	11	8	9	8	8	7	8
50°	87	58	33	21	15	12	10	9	8	8	8
47.5°	128	93	60	33	22	16	12	10	8	8	8
45°	177	134	92	58	32	24	16	12	9	8	9
42.5°	229	180	131	82	55	36	19	15	11	8	10
40°	275	232	173	120	78	51	31	18	14	10	10
37.5°	320	279	222	158	104	72	46	21	17	12	11
35°	369	323	270	200	139	92	62	28	21	15	11
32.5°	416	365	308	242	172	110	79	45	26	18	11
30°	476	403	344	281	206	139	96	60	33	21	12
27.5°	535	440	377	314	241	168	114	74	40	25	15
25°	593	488	410	344	273	198	133	87	50	30	17
22.5°	652	539	440	372	304	227	156	102	61	36	20
20°	714	588	470	405	332	254	181	118	72	42	22
17.5°	781	640	520	438	359	279	203	134	81	49	24
15°	849	694	567	471	386	301	224	151	89	55	28
12.5°	909	743	609	504	411	321	243	167	96	62	33
10°	960	785	645	535	436	338	260	182	107	67	38
7.5°	1004	823	677	565	459	357	274	194	120	72	44
5°	1041	853	701	587	478	379	287	203	133	76	49
2.5°	1069	878	718	605	495	400	297	211	145	79	55
0°	1090	896	732	620	508	418	306	217	157	82	60
-2.5°	1100	909	753	631	525	428	317	228	164	93	62
-5°	1103	917	769	640	540	434	326	238	170	103	64
-7.5°	1104	921	778	647	551	438	332	247	175	111	65
-10°	1098	920	781	656	554	443	338	253	179	118	66
-12.5°	1084	915	780	660	555	448	345	258	183	124	67
-15°	1061	905	776	659	554	450	350	260	185	125	68
-17.5°	1029	890	770	653	552	451	352	260	186	125	70
-20°	1008	875	761	642	549	449	352	257	185	123	73

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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°	983	859	746	633	544	446	348	250	182	121	75
-25°	951	841	730	628	537	440	341	241	178	119	76
-27.5°	923	819	712	618	526	432	329	235	173	116	75
-30°	896	797	696	604	512	419	313	228	168	114	74
-32.5°	868	773	678	586	496	405	297	219	163	113	73
-35°	838	748	656	565	480	387	285	208	158	109	71
-37.5°	806	719	629	543	463	368	279	205	153	105	69
-40°	773	689	601	524	443	350	269	202	147	98	66
-42.5°	738	658	578	504	422	336	258	195	139	94	63
-45°	705	627	553	478	401	320	247	186	131	90	60
-47.5°	671	596	521	448	380	302	233	174	121	85	59
-50°	632	557	483	418	352	282	216	161	116	81	56
-52.5°	588	511	448	389	324	257	199	147	110	77	53
-55°	539	473	418	358	295	234	180	138	102	74	50
-57.5°	503	442	385	326	266	211	165	128	96	69	48
-60°	466	407	351	292	236	189	152	118	89	64	45
-62.5°	421	366	309	255	209	170	138	108	81	60	42
-65°	369	316	265	221	183	151	124	98	74	54	39
-67.5°	311	268	226	188	159	133	110	86	65	48	35
-70°	264	225	190	162	137	115	95	74	56	42	31
-72.5°	221	190	161	136	116	97	79	62	48	36	26
-75°	183	157	133	113	95	79	64	51	39	30	23
-77.5°	144	124	105	90	76	63	51	39	32	26	21
-80°	109	95	82	69	58	47	39	32	27	22	18
-82.5°	77	68	59	51	44	37	31	26	22	19	15
-85°	50	44	39	34	30	26	22	19	16	13	10
-87.5°	24	22	19	17	15	13	11	9	8	6	5
-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	1	0	0	0	0	0
72.5°	0	1	1	0	0	0	0
70°	1	2	2	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	4	5	5	1	0	0
52.5°	6	4	5	6	2	0	0
50°	7	5	5	6	2	0	0
47.5°	8	5	6	7	3	0	0
45°	8	6	6	7	3	0	0
42.5°	9	7	6	7	4	0	0
40°	10	7	6	8	4	0	0
37.5°	11	7	7	8	4	0	0
35°	12	8	7	8	5	0	0
32.5°	13	9	7	8	5	0	0
30°	13	10	7	8	5	0	0
27.5°	13	10	8	8	6	0	0
25°	14	11	8	8	6	0	0
22.5°	14	12	8	8	6	0	0
20°	15	13	8	8	7	0	0
17.5°	15	13	8	8	7	0	0
15°	16	14	8	8	7	0	0
12.5°	17	14	8	8	7	0	0
10°	18	14	8	8	7	0	0
7.5°	19	15	8	8	7	0	0
5°	20	15	8	8	7	0	0
2.5°	21	15	8	8	7	0	0
0°	22	15	8	8	8	0	0
-2.5°	26	16	8	8	7	0	0
-5°	30	16	9	8	7	0	0
-7.5°	34	17	9	8	7	0	0
-10°	37	18	10	8	7	1	0
-12.5°	39	18	10	8	7	1	0
-15°	41	19	11	8	7	1	0
-17.5°	42	19	11	8	7	1	0
-20°	42	19	11	8	7	1	0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	43	19	11	8	7	1	0
-25°	43	20	11	8	7	1	0
-27.5°	42	22	11	8	7	2	0
-30°	42	23	11	8	6	2	0
-32.5°	40	24	12	8	6	2	0
-35°	41	24	12	8	6	2	0
-37.5°	41	25	12	8	6	2	0
-40°	41	25	12	8	6	2	0
-42.5°	41	25	13	8	6	2	0
-45°	40	25	13	8	6	2	0
-47.5°	38	24	14	8	6	2	0
-50°	37	23	14	9	6	2	0
-52.5°	36	23	14	9	6	2	0
-55°	35	22	14	9	6	2	0
-57.5°	33	21	13	9	6	2	0
-60°	31	20	13	9	6	2	0
-62.5°	29	19	13	9	6	2	0
-65°	27	18	13	9	6	1	0
-67.5°	24	17	12	9	5	1	0
-70°	22	16	12	9	5	1	0
-72.5°	20	15	12	8	4	1	0
-75°	18	14	11	7	4	1	0
-77.5°	17	13	10	6	3	1	0
-80°	15	11	8	5	3	1	0
-82.5°	11	8	6	4	2	0	0
-85°	8	6	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)