

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: HALO

Report Number: P395148

Luminaire Tested: **TGS2S302[F;D;M]S[R;C][B;W]**

Test Date: 02/11/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2001-646-4)  
Test Lab: INNOVATIONS CENTER(G1)  
Test Date: 02/11/2020  
Issue Date: 05/04/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: TGS2S302[F;D;M]S[R;C][B;W]  
Description: 3000K TWIN SQUARE HEAD LED FLOOD, SELECTABLE LUMEN  
Light Source: 3000K CCT, 70 CRI LEDs  
Ballast/Driver: (1) Electronic Driver

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2635 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 0.98' x L: 0.21' x H: 0')  
IES Classification: Type II - Short - Cutoff  
BUG Rating: B1 - U1 - G1

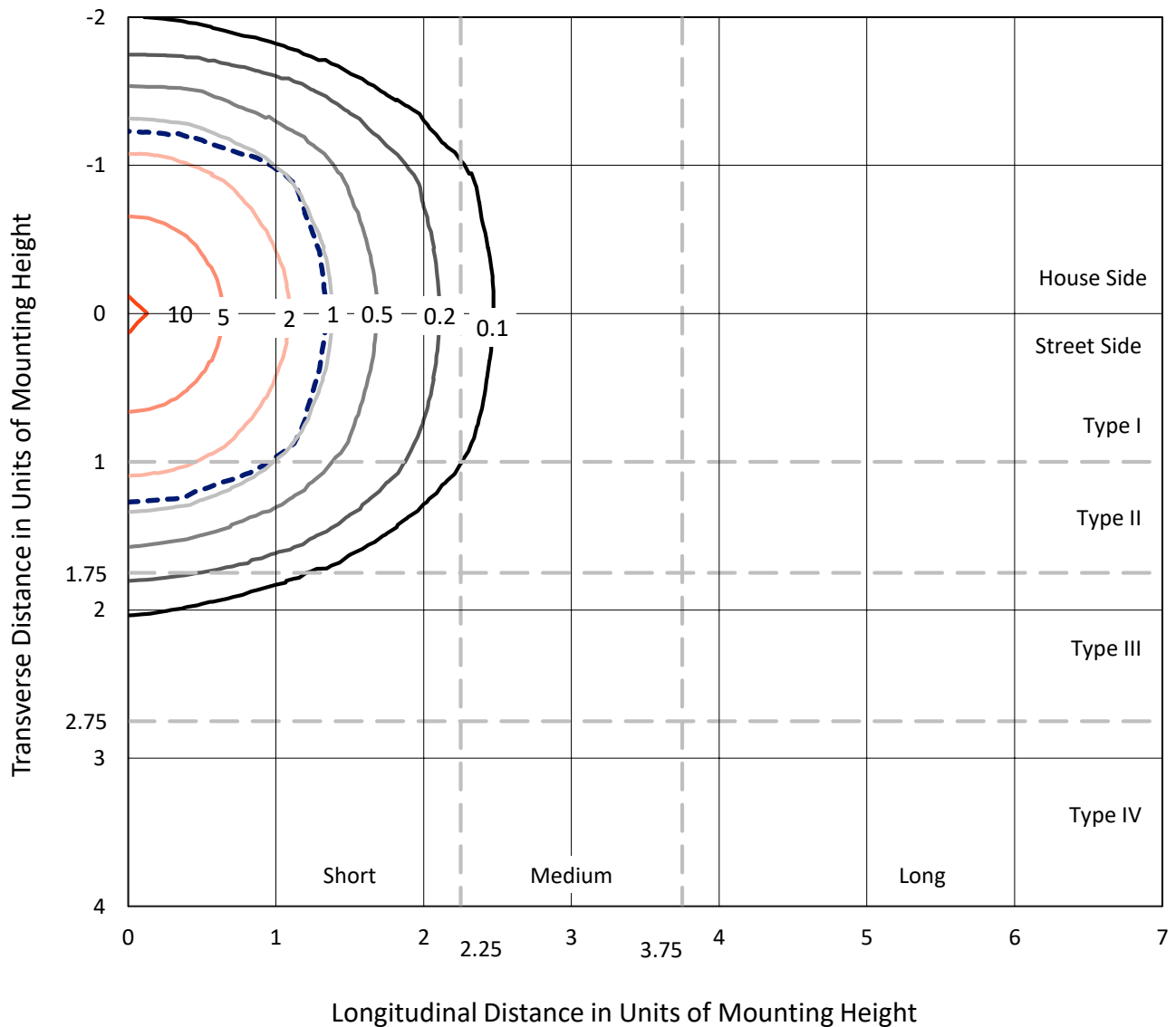
Input Watts (W): 20.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.174  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

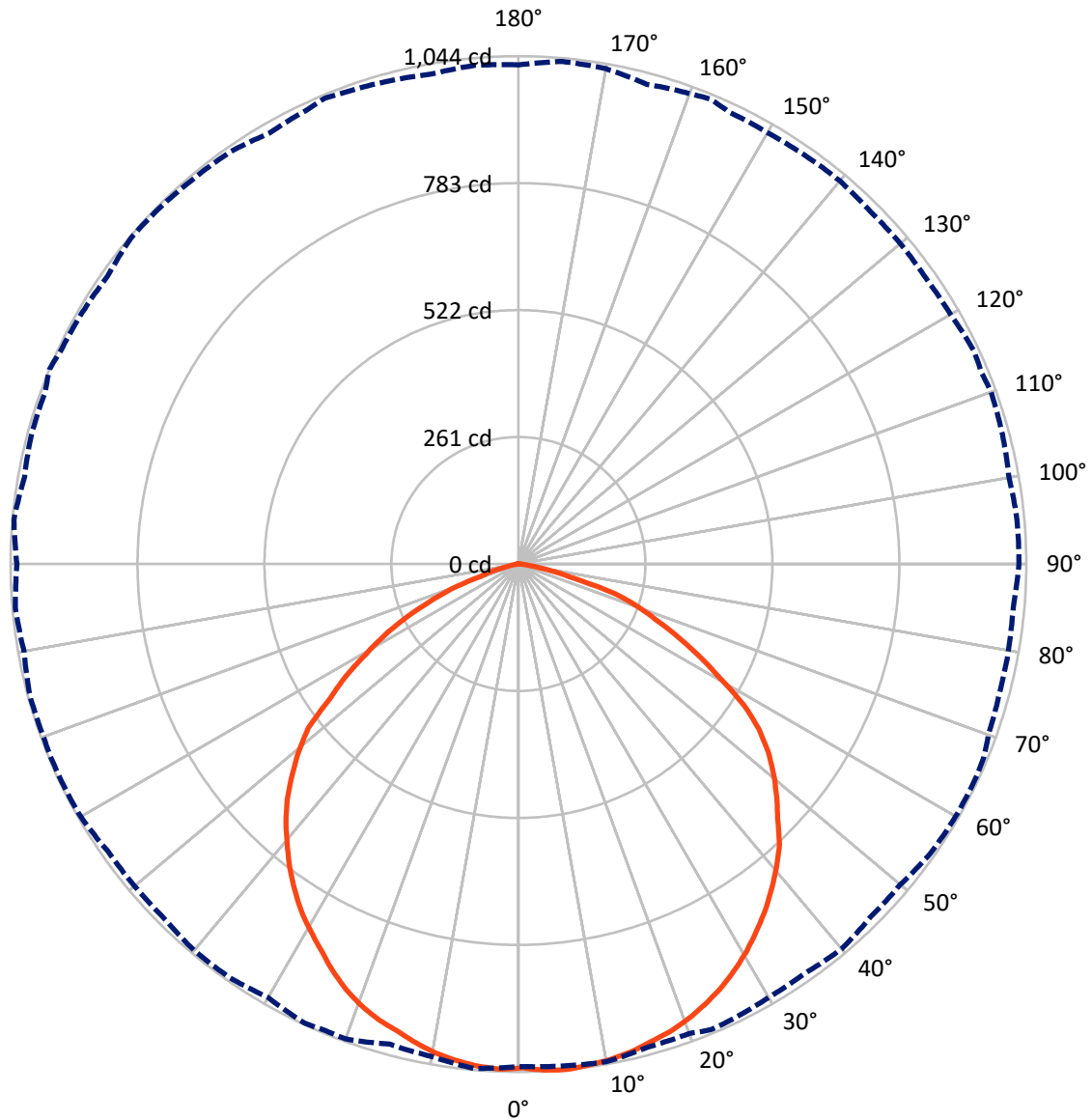
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 247.5-Deg Lateral    - - - Horizontal Cone Through 5-Deg Vertical

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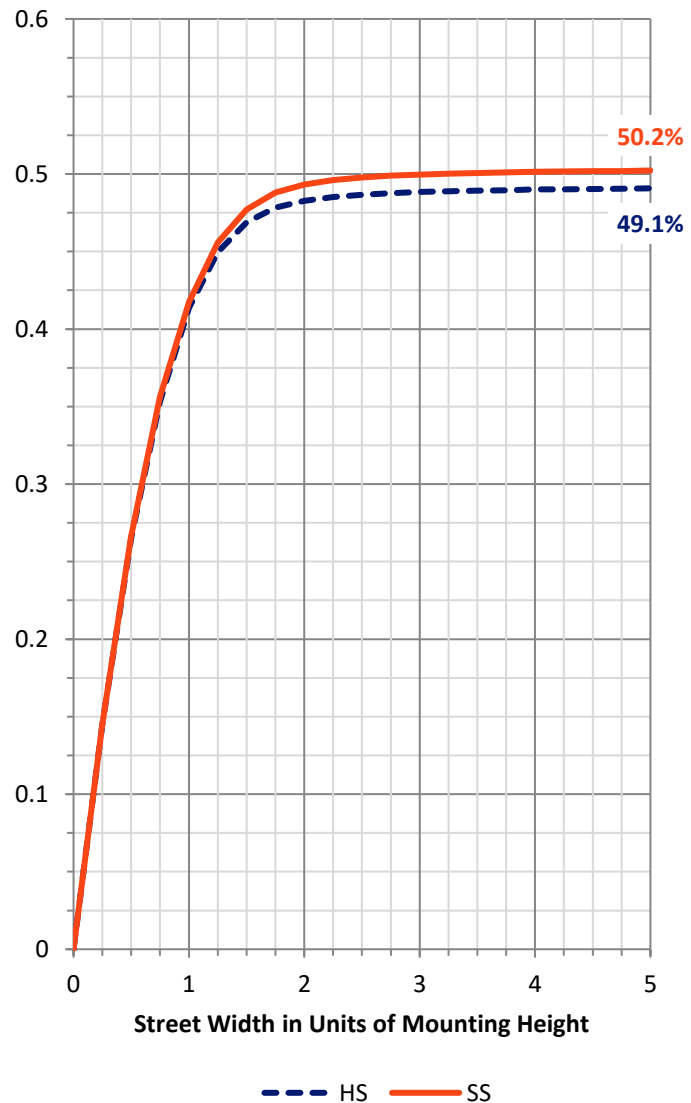
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1301.8	5.0	1306.8
	% Fixture	49.4	0.2	49.6
<b>Street Side</b>	Lumens	1322.1	6.1	1328.2
	% Fixture	50.2	0.2	50.4
<b>Total</b>	Lumens	2623.9	11.1	2635.0
	% Fixture	99.6	0.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.7
10°-20°	282.3	10.7
20°-30°	432.4	16.4
30°-40°	527.3	20.0
40°-50°	550.6	20.9
50°-60°	441.5	16.8
60°-70°	217.8	8.3
70°-80°	64.4	2.4
80°-90°	9.6	0.4
90°-100°	2.9	0.1
100°-110°	2.3	0.1
110°-120°	1.9	0.1
120°-130°	1.5	0.1
130°-140°	1.0	0.0
140°-150°	0.7	0.0
150°-160°	0.5	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	2623.9	99.6
0°-180°	2635.0	100.0



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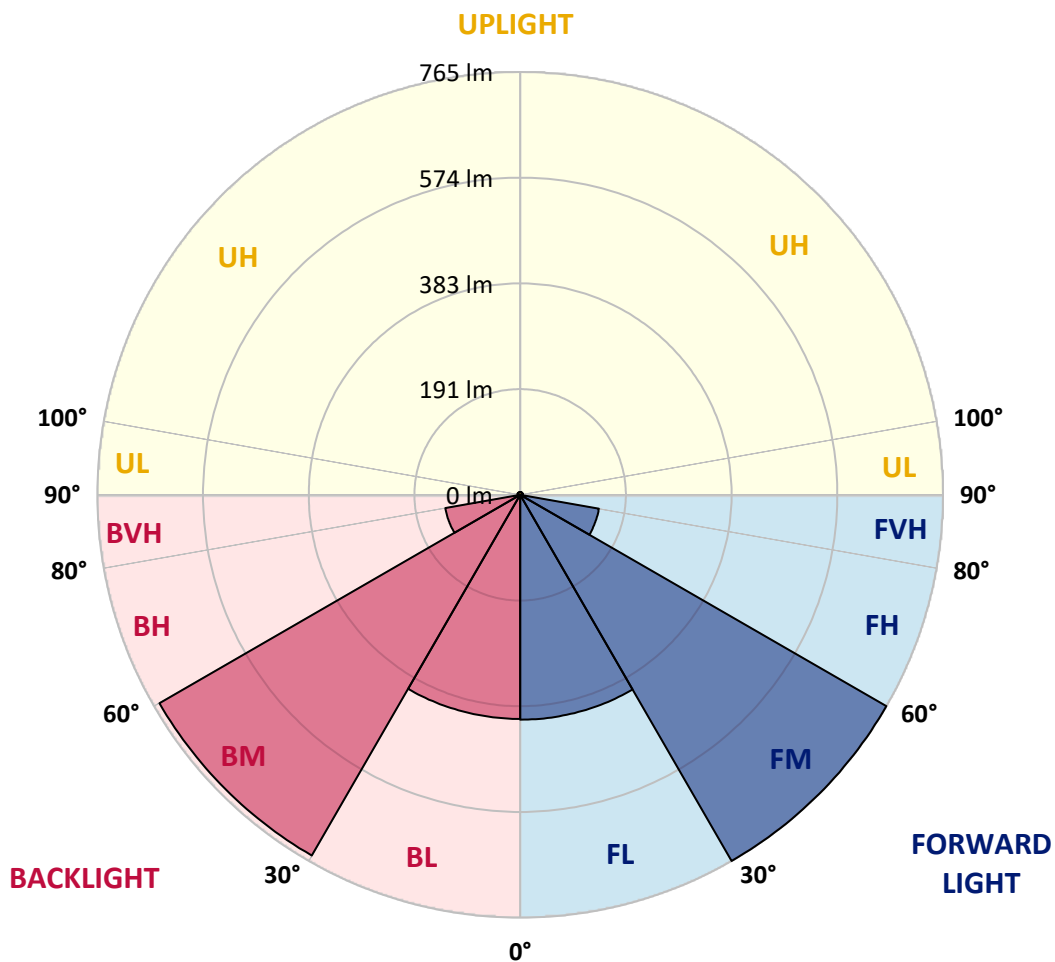
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.0	15.4			
FM (30°-60°)	765.4	29.0			
FH (60°-80°)	144.7	5.5			G0/660
FVH (80°-90°)	5.0	0.2			G0/10
BL (0°-30°)	405.7	15.4	B1/500		
BM (30°-60°)	754.0	28.6	B1/1000		
BH (60°-80°)	137.5	5.2	B1/500		G1/500
BVH (80°-90°)	4.6	0.2			G0/10
UL (90°-100°)	2.9	0.1		U1/10	
UH (100°-180°)	5.0	0.2		U1/10	

**BUG Rating: B1-U1-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036
2.5°	1036	1036	1042	1032	1029	1039	1037	1033	1030	1036	1029
5°	1033	1036	1039	1028	1027	1036	1034	1029	1027	1033	1025
7.5°	1026	1029	1031	1022	1021	1031	1026	1022	1021	1025	1021
10°	1017	1021	1019	1014	1015	1022	1016	1014	1011	1014	1010
12.5°	1007	1009	1008	1005	1003	1010	1006	1001	1000	1003	997
15°	995	998	998	991	993	999	995	988	988	989	986
17.5°	983	983	985	976	979	986	980	974	975	977	971
20°	969	970	970	963	965	970	967	960	961	961	955
22.5°	956	954	953	949	950	954	953	946	945	945	939
25°	935	936	936	927	933	937	935	928	928	927	919
27.5°	916	914	913	906	911	918	916	907	909	907	901
30°	897	891	892	885	888	893	891	888	886	880	873
32.5°	875	867	869	871	872	874	871	862	858	850	842
35°	845	837	841	841	839	844	844	835	831	816	814
37.5°	816	811	810	813	810	813	810	799	800	792	784
40°	790	784	783	783	782	782	777	770	768	762	755
42.5°	776	769	765	764	756	752	747	734	731	727	720
45°	740	726	725	730	732	729	726	710	704	692	681
47.5°	644	629	629	646	661	663	666	670	678	661	648
50°	572	572	571	573	570	572	578	587	614	623	619
52.5°	507	504	503	514	519	523	521	518	535	553	576
55°	377	371	369	387	404	410	427	455	478	475	495
57.5°	349	335	330	328	331	336	341	346	376	411	425
60°	198	197	199	218	234	251	259	267	299	318	349
62.5°	134	132	129	128	133	139	146	177	209	231	259
65°	100	98	97	97	102	105	104	106	123	152	168
67.5°	76	73	72	72	75	75	77	82	87	90	107
70°	57	55	53	54	54	55	56	57	60	63	66
72.5°	37	38	37	37	37	37	39	40	42	43	48
75°	26	26	26	26	26	26	26	26	27	28	30
77.5°	21	21	20	19	19	19	19	19	19	19	20
80°	15	14	14	13	13	13	13	12	12	12	12
82.5°	10	9	9	9	9	9	9	9	9	9	8
85°	7	7	7	7	7	7	7	7	6	6	5
87.5°	6	6	6	6	5	5	5	5	5	4	4
90°	5	5	5	5	4	4	4	4	4	3	3
92.5°	5	5	4	4	4	4	4	4	3	3	2
95°	4	4	4	4	4	4	4	3	3	3	2
97.5°	4	4	4	4	4	4	4	4	3	3	2
100°	4	4	4	4	4	4	4	3	3	3	2
102.5°	4	4	4	4	4	4	4	3	3	3	2
105°	4	4	4	4	4	4	4	3	3	3	2
107.5°	4	4	4	4	4	3	3	3	3	3	2
110°	4	4	4	4	4	3	3	3	3	2	2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	4	4	4	4	3	3	3	3	3	2	2
115°	3	3	3	3	3	3	3	3	3	2	2
117.5°	3	3	3	3	3	3	3	3	3	2	2
120°	3	3	3	3	3	3	3	3	3	2	2
122.5°	3	3	3	3	3	3	3	3	2	2	2
125°	3	3	3	3	3	3	3	3	3	2	2
127.5°	3	3	3	3	3	3	3	3	3	2	2
130°	3	3	3	3	3	3	3	3	2	2	2
132.5°	3	3	3	3	3	3	3	3	2	2	2
135°	3	3	3	3	3	3	3	2	2	2	2
137.5°	3	3	3	3	3	3	3	2	2	2	2
140°	3	3	3	2	2	2	2	2	2	2	2
142.5°	2	2	2	2	2	2	2	2	2	2	2
145°	2	2	2	2	2	2	2	2	2	2	2
147.5°	2	2	2	2	2	2	2	2	2	2	1
150°	2	2	2	2	2	2	2	2	2	1	1
152.5°	2	2	2	2	2	2	2	2	2	1	1
155°	2	2	2	2	2	2	2	2	2	1	1
157.5°	2	2	2	2	2	2	2	2	2	1	1
160°	2	2	2	2	2	2	1	1	1	1	1
162.5°	2	2	2	2	1	1	1	1	1	1	1
165°	1	1	1	1	1	1	1	1	1	1	1
167.5°	1	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	1	1	1	1	1	1	1	0	0	0	0
175°	0	1	1	1	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0





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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036
2.5°	1027	1039	1040	1040	1039	1034	1032	1029	1026	1034	1035
5°	1025	1035	1038	1038	1036	1028	1024	1023	1021	1029	1029
7.5°	1019	1031	1032	1031	1029	1022	1019	1017	1014	1024	1024
10°	1010	1020	1022	1021	1020	1013	1011	1009	1006	1016	1017
12.5°	997	1008	1011	1011	1007	1004	1005	1001	997	1007	1006
15°	985	995	996	996	992	988	990	988	988	998	996
17.5°	970	980	981	980	980	976	977	975	973	985	983
20°	957	968	969	966	964	962	963	960	958	969	967
22.5°	940	953	950	948	944	941	940	937	937	947	944
25°	918	927	928	923	920	917	918	915	915	920	916
27.5°	894	902	899	893	892	891	892	891	890	901	895
30°	867	874	872	869	867	867	866	867	870	877	870
32.5°	839	848	848	844	842	839	841	841	844	851	848
35°	812	819	820	817	812	814	816	816	816	824	819
37.5°	783	793	790	782	781	781	785	785	784	794	789
40°	748	758	755	750	747	748	749	753	753	761	753
42.5°	716	716	717	718	714	716	715	713	719	725	717
45°	679	685	679	679	678	678	678	678	683	686	680
47.5°	644	647	646	643	636	635	642	641	644	653	650
50°	607	606	602	597	594	599	602	600	603	608	602
52.5°	570	561	556	550	548	546	539	531	535	543	531
55°	514	520	502	483	475	475	477	473	472	477	475
57.5°	438	451	440	426	422	419	417	412	410	414	415
60°	363	376	393	370	362	358	359	356	352	360	356
62.5°	276	312	302	319	311	307	304	300	301	303	302
65°	202	213	258	248	256	256	248	244	243	247	242
67.5°	126	154	171	200	198	209	205	198	200	198	204
70°	79	97	122	141	147	138	134	130	136	149	141
72.5°	50	60	66	76	81	94	98	94	88	90	86
75°	31	34	37	48	55	46	49	65	74	53	60
77.5°	20	21	22	22	23	23	26	21	19	18	18
80°	12	12	11	11	11	11	11	10	10	10	10
82.5°	8	7	7	6	6	6	6	5	5	5	5
85°	5	5	4	4	4	3	3	3	2	2	2
87.5°	4	3	3	2	2	2	2	2	1	1	1
90°	3	2	2	2	2	2	1	1	1	1	1
92.5°	2	2	2	1	1	1	1	1	0	0	0
95°	2	2	2	1	1	1	1	0	0	0	0
97.5°	2	2	1	1	1	1	1	0	0	0	0
100°	2	2	1	1	1	1	1	0	0	0	0
102.5°	2	2	1	1	1	1	1	1	0	0	0
105°	2	2	1	1	1	1	1	1	0	0	0
107.5°	2	2	1	1	1	1	1	1	0	0	0
110°	2	2	1	1	1	1	1	1	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	2	2	1	1	1	1	1	1	1	0	0
115°	2	2	1	1	1	1	1	1	0	0	0
117.5°	2	2	1	1	1	1	1	1	0	0	0
120°	2	2	1	1	1	1	1	1	0	0	0
122.5°	2	1	1	1	1	1	0	0	0	0	0
125°	2	2	1	1	1	1	1	0	1	0	0
127.5°	2	1	1	1	1	1	1	0	0	0	0
130°	2	1	1	1	1	1	1	0	0	0	0
132.5°	2	1	1	1	1	1	0	0	0	0	0
135°	2	1	1	1	1	1	0	0	0	0	0
137.5°	2	1	1	1	1	0	0	0	0	0	0
140°	2	1	1	1	0	0	0	0	0	0	0
142.5°	2	1	1	1	0	0	0	0	0	0	0
145°	1	1	1	1	1	0	0	0	0	0	0
147.5°	1	1	1	1	1	0	0	0	0	0	0
150°	1	1	1	0	0	0	0	0	0	0	0
152.5°	1	1	1	0	1	0	0	0	0	0	0
155°	1	1	1	1	0	0	0	0	0	0	0
157.5°	1	1	1	1	1	0	0	0	0	0	0
160°	1	1	1	1	1	0	0	0	0	0	0
162.5°	1	1	1	1	1	0	0	0	0	0	0
165°	1	1	1	0	0	0	0	0	0	0	0
167.5°	1	1	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036
2.5°	1029	1037	1040	1036	1040	1031	1030	1032	1030	1031	1030
5°	1024	1030	1034	1030	1034	1026	1023	1025	1024	1028	1026
7.5°	1019	1022	1027	1022	1028	1020	1016	1019	1017	1020	1019
10°	1010	1015	1019	1015	1019	1009	1008	1008	1008	1012	1013
12.5°	1002	1006	1008	1005	1011	1002	999	997	999	1001	1003
15°	990	993	996	992	996	987	983	984	987	990	991
17.5°	978	981	984	979	984	972	967	970	972	976	978
20°	962	968	969	969	970	960	956	955	956	958	961
22.5°	938	945	951	950	954	944	941	940	940	943	944
25°	915	919	925	926	929	920	919	919	921	926	925
27.5°	892	896	897	897	900	890	891	895	900	906	905
30°	865	868	869	870	870	859	862	868	876	885	883
32.5°	840	840	840	841	842	833	834	838	850	859	860
35°	815	815	815	815	814	805	806	811	818	828	829
37.5°	785	787	784	782	782	772	770	778	782	793	793
40°	751	755	752	753	756	748	745	746	753	760	753
42.5°	709	713	716	720	723	721	716	716	719	719	723
45°	678	678	681	680	678	676	677	678	676	678	689
47.5°	646	644	639	636	636	629	639	650	648	652	672
50°	603	602	612	612	610	595	595	601	616	627	598
52.5°	531	544	545	546	549	552	559	567	574	558	516
55°	477	480	488	487	487	494	512	524	500	477	473
57.5°	419	419	426	433	435	442	458	454	430	394	365
60°	351	361	353	356	356	382	386	367	344	311	299
62.5°	304	309	308	308	309	308	290	275	249	229	199
65°	244	248	254	266	274	249	215	197	170	146	121
67.5°	202	203	220	211	204	167	167	123	100	85	81
70°	138	137	143	154	129	129	94	76	62	58	56
72.5°	89	100	91	77	78	64	51	45	42	40	38
75°	74	54	46	43	40	32	30	29	27	26	25
77.5°	19	21	21	20	20	19	18	18	18	17	17
80°	10	10	10	9	10	10	10	11	11	11	12
82.5°	5	5	5	6	6	6	7	8	8	8	8
85°	3	3	3	3	3	4	4	5	5	5	6
87.5°	2	2	2	2	3	3	3	4	4	4	4
90°	1	1	2	2	2	2	3	3	3	3	4
92.5°	1	1	1	1	1	2	2	2	3	3	3
95°	1	1	1	1	1	2	2	2	2	3	3
97.5°	1	1	1	1	1	2	2	2	2	3	3
100°	1	1	1	1	1	1	2	2	2	3	3
102.5°	1	1	1	1	1	1	2	2	2	3	3
105°	1	1	1	1	1	2	2	2	2	2	3
107.5°	1	1	1	1	1	1	2	2	2	3	3
110°	1	1	1	1	1	1	2	2	2	2	3



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°	
112.5°	1	1	1	1	1	1	2	2	2	2	3	0°
115°	1	1	1	1	1	1	2	2	2	2	3	2.5°
117.5°	1	1	1	1	1	1	1	2	2	2	2	5°
120°	1	1	1	1	1	1	1	2	2	2	2	7.5°
122.5°	0	0	1	1	1	1	1	1	1	1	1	10°
125°	1	1	1	1	1	1	1	1	1	1	1	12.5°
127.5°	0	1	1	1	1	1	1	1	1	1	1	15°
130°	0	1	1	1	1	1	1	1	1	1	1	17.5°
132.5°	0	0	1	1	1	1	1	1	1	1	1	20°
135°	0	0	0	1	1	1	1	1	1	1	1	22.5°
137.5°	0	0	0	0	0	1	1	1	1	1	1	25°
140°	0	0	0	0	0	1	1	1	1	1	1	27.5°
142.5°	0	0	0	0	0	1	1	1	1	1	1	30°
145°	0	0	0	0	0	0	1	1	1	1	1	32.5°
147.5°	0	0	0	1	0	1	1	1	1	1	1	35°
150°	0	0	0	0	1	0	1	1	0	1	1	37.5°
152.5°	0	0	0	1	1	1	1	1	1	1	1	40°
155°	0	0	0	1	1	1	1	1	1	1	1	42.5°
157.5°	1	1	1	0	1	1	1	1	1	1	1	45°
160°	0	0	1	1	0	1	1	1	1	1	1	47.5°
162.5°	0	1	1	1	1	1	1	1	1	1	1	50°
165°	0	0	0	0	0	0	1	1	1	1	1	52.5°
167.5°	0	0	1	0	1	0	1	1	1	1	1	55°
170°	0	0	0	0	0	0	0	0	0	0	1	57.5°
172.5°	0	0	0	0	0	0	0	0	0	0	0	60°
175°	0	0	0	0	0	0	0	0	0	0	0	62.5°
177.5°	0	0	0	0	0	0	0	0	0	0	0	65°
180°	0	0	0	0	0	0	0	0	0	0	0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°



NUMBER: P395148  
 NUMBER: TGS2S302[F;D;M]S[R;C][B;W]

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°	150°	
1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	112.5°	3
1026	1029	1038	1034	1024	1038	1040	1029	1035	1027	1032	115°	3
1024	1025	1034	1029	1021	1034	1037	1026	1029	1023	1028	117.5°	3
1017	1020	1027	1023	1015	1027	1030	1021	1022	1018	1022	120°	3
1008	1010	1017	1013	1005	1021	1023	1012	1016	1010	1014	122.5°	2
1000	1001	1006	1005	996	1011	1014	1005	1007	1002	1005	125°	1
989	988	994	991	986	999	1002	995	995	990	997	127.5°	1
970	969	976	976	970	983	984	980	979	976	982	130°	1
953	954	959	958	954	965	967	966	964	961	965	132.5°	1
936	936	944	941	940	948	950	947	947	942	946	135°	1
919	919	927	924	923	931	936	928	928	926	928	137.5°	1
897	899	907	905	907	913	917	908	911	908	912	140°	1
873	876	885	885	886	895	897	890	894	893	895	142.5°	1
850	855	866	863	865	867	865	863	868	872	877	145°	1
825	825	835	828	825	827	827	824	832	834	840	147.5°	1
788	792	798	797	799	801	804	797	806	807	809	150°	1
751	761	766	765	773	782	788	781	788	785	784	152.5°	1
726	739	748	747	759	776	774	769	782	779	773	155°	1
710	728	735	727	723	714	696	697	716	733	748	157.5°	1
668	646	639	627	612	612	605	597	611	623	641	160°	1
575	558	558	553	555	567	579	568	571	570	570	162.5°	1
505	521	522	510	488	461	441	448	493	505	540	165°	1
427	394	389	373	362	359	360	356	360	366	380	167.5°	1
334	343	346	342	330	316	295	299	336	372	359	170°	1
261	225	214	197	180	171	166	165	170	180	208	172.5°	0
164	142	134	129	127	126	124	126	128	131	138	175°	0
106	103	98	94	92	90	92	94	94	98	105	177.5°	0
74	71	72	70	69	68	69	72	72	75	79	180°	0
53	51	51	50	47	47	48	50	52	55	59		
36	33	33	32	32	32	32	32	34	36	40		
24	24	24	24	24	24	24	24	26	26	26		
17	17	18	17	18	18	18	19	19	20	20		
12	12	12	12	12	12	12	12	13	14	15		
9	8	9	8	8	9	9	9	9	9	9		
6	6	6	6	6	6	7	7	7	7	7		
5	5	5	5	5	5	5	5	5	6	6		
4	4	4	4	4	4	4	4	5	4	5		
3	4	4	4	4	4	4	4	4	4	4		
3	4	4	4	4	4	4	4	4	4	4		
3	3	3	3	4	4	4	4	4	4	4		
3	3	3	3	3	4	4	4	4	4	4		
3	3	3	4	4	4	4	4	4	4	3		
3	3	3	3	4	4	4	3	4	4	4		
3	3	3	3	3	3	3	3	4	3	3		
3	3	3	3	3	3	3	3	4	3	3		

'395148  
 TGS2S302[F;D;M]S[R;C][B;W]

REPORT NUMBER: P395148  
 CATALOG NUMBER: TGS2S302

**TION (continued):**

**CANDELA DISTRIBUTION (con**

155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°		200°	202.5°
3	3	3	3	3	3	3	3	3	3	0°	1036	1036
3	3	3	3	3	3	3	3	3	3	2.5°	1038	1039
3	3	3	3	3	3	3	3	3	3	5°	1033	1037
3	3	3	3	3	3	3	3	3	3	7.5°	1024	1028
2	2	3	3	3	3	3	3	3	3	10°	1016	1021
2	2	3	3	3	3	3	3	3	3	12.5°	1008	1014
2	2	2	2	2	3	3	3	2	2	15°	999	1005
2	2	2	2	3	3	3	2	2	2	17.5°	984	990
2	2	2	2	2	2	2	2	2	2	20°	970	974
2	2	2	2	2	2	2	2	2	2	22.5°	951	956
1	2	2	2	2	2	2	2	2	2	25°	934	939
2	2	2	2	2	2	2	2	2	2	27.5°	917	924
2	2	2	2	2	2	2	2	2	2	30°	896	904
2	2	2	2	2	2	2	2	2	2	32.5°	881	885
2	2	2	2	2	2	2	2	2	2	35°	848	853
2	1	2	2	2	2	2	1	2	2	37.5°	810	814
1	2	2	2	2	2	2	2	2	2	40°	786	788
1	1	2	1	2	1	1	1	1	1	42.5°	768	770
1	1	2	1	2	2	1	1	1	1	45°	750	752
1	1	1	1	1	1	1	1	1	1	47.5°	673	698
1	1	1	1	1	1	1	1	1	1	50°	576	591
1	1	1	1	1	1	1	1	1	1	52.5°	535	533
1	1	1	1	1	1	1	1	1	1	55°	429	467
1	1	1	1	1	1	1	1	1	1	57.5°	336	339
0	1	1	0	0	0	0	1	0	0	60°	283	311
0	0	0	0	0	0	0	0	0	0	62.5°	144	150
0	0	0	0	0	0	0	0	0	0	65°	112	118
0	0	0	0	0	0	0	0	0	0	67.5°	83	87
										70°	63	66
										72.5°	43	46
										75°	28	30
										77.5°	22	22
										80°	16	16
										82.5°	10	10
										85°	7	7
										87.5°	6	6
										90°	5	5
										92.5°	4	4
										95°	4	4
										97.5°	4	4
										100°	3	3
										102.5°	3	3
										105°	3	3
										107.5°	3	3
										110°	3	3



REPORT NUMBER: P395148

CATALOG NUMBER: TGS2S302[F;D;M]S[I

:[F;D;M]S[R;C][B;W]

tinued):									CANDELA DISTRIBUTION (continued):			
205°	210°	215°	220°	225°	230°	235°	240°	245°		200°	202.5°	205°
1036	1036	1036	1036	1036	1036	1036	1036	1036	112.5°	3	3	3
1033	1028	1035	1038	1040	1043	1034	1036	1037	115°	3	3	3
1030	1023	1034	1036	1039	1041	1031	1035	1038	117.5°	3	3	3
1021	1016	1028	1030	1035	1037	1027	1033	1036	120°	3	3	3
1013	1009	1020	1023	1028	1029	1021	1026	1029	122.5°	3	3	2
1006	1003	1012	1014	1019	1022	1013	1017	1023	125°	3	2	2
999	993	1006	1007	1011	1012	1005	1007	1012	127.5°	2	1	2
984	982	995	998	1002	1003	996	1002	1004	130°	2	1	1
968	970	982	985	990	992	986	989	991	132.5°	2	1	1
953	955	966	969	974	977	971	976	977	135°	2	1	1
936	936	950	951	956	959	953	959	962	137.5°	1	1	1
919	920	934	932	935	938	936	943	943	140°	1	1	1
894	902	912	914	915	916	911	916	920	142.5°	1	1	1
877	880	889	889	886	887	883	891	896	145°	1	1	1
850	850	867	863	861	859	857	863	867	147.5°	1	1	1
812	816	836	839	838	833	833	839	839	150°	1	1	1
782	786	799	808	810	810	805	807	810	152.5°	1	1	1
764	756	764	767	772	774	771	779	782	155°	1	1	1
747	735	737	736	733	735	740	743	742	157.5°	1	1	1
707	727	720	704	698	695	704	709	714	160°	1	1	1
608	648	688	678	661	659	666	680	675	162.5°	1	1	1
532	545	593	644	641	630	623	632	641	165°	1	1	1
490	503	503	543	610	610	590	585	598	167.5°	1	1	1
345	405	468	466	501	554	551	548	551	170°	1	1	1
334	312	347	415	429	471	513	497	484	172.5°	1	0	1
171	252	301	307	363	381	426	431	417	175°	0	0	0
122	134	183	249	267	309	318	382	362	177.5°	0	0	0
92	101	111	150	197	217	260	273	305	180°	0	0	0
68	74	81	90	112	159	185	219	262				
48	53	60	66	71	88	124	166	175				
31	35	42	47	51	58	60	94	139				
23	25	27	31	36	41	43	46	68				
17	17	18	20	22	26	29	30	31				
10	12	12	13	14	15	17	18	18				
8	8	8	9	9	9	9	9	9				
6	6	6	6	6	6	6	6	6				
4	5	4	4	4	4	4	4	3				
4	4	4	3	3	3	3	2	2				
3	3	3	3	3	2	2	2	2				
3	3	3	3	2	2	2	2	1				
3	3	3	3	2	2	2	2	1				
3	3	3	2	2	2	2	1	1				
3	3	3	2	2	2	1	1	1				
3	3	2	2	2	2	1	1	1				



REPORT NUMBER: P395148

CATALOG NUMBER: TGS2S302[F;D;M]S[R;C][B;W]

R;C][B;W]

**CANDELA DISTRIBUTION (continued):**

210°	215°	220°	225°	230°	235°	240°	245°		247.5°	250°	255°	260°
3	2	2	2	2	1	1	1	0°	1036	1036	1036	1036
3	2	2	2	1	1	1	1	2.5°	1042	1033	1037	1031
3	2	2	2	1	1	1	1	5°	1044	1035	1036	1031
2	2	2	2	1	1	1	1	7.5°	1040	1032	1034	1030
2	2	1	1	1	1	1	1	10°	1036	1025	1026	1024
1	1	1	1	1	1	1	1	12.5°	1029	1020	1020	1018
1	1	1	1	1	1	1	1	15°	1019	1012	1012	1011
1	1	1	1	1	1	1	0	17.5°	1010	1003	1005	1005
1	1	1	1	1	1	1	0	20°	998	990	988	991
1	1	1	1	1	1	0	0	22.5°	983	977	978	978
1	1	1	1	1	1	0	0	25°	966	959	958	962
1	1	1	1	1	1	0	0	27.5°	946	937	935	938
1	1	1	1	1	1	0	0	30°	924	917	913	918
1	1	1	1	1	1	0	0	32.5°	899	894	893	894
1	1	1	1	0	1	0	0	35°	874	869	867	870
1	1	0	1	0	0	0	0	37.5°	846	844	842	847
1	1	1	1	1	1	0	0	40°	817	816	814	817
1	1	1	0	0	1	0	0	42.5°	787	787	783	785
1	1	1	1	1	0	0	0	45°	747	751	755	755
1	1	1	0	0	0	0	0	47.5°	714	718	718	721
1	1	1	0	1	1	0	0	50°	680	677	679	691
1	1	0	1	1	0	1	0	52.5°	643	640	640	646
1	1	1	0	0	0	0	0	55°	600	601	596	605
1	0	0	0	0	0	0	0	57.5°	546	545	541	545
1	1	0	0	0	0	0	0	60°	476	480	477	483
0	0	0	0	0	0	0	0	62.5°	417	415	410	418
0	0	0	0	0	0	0	0	65°	359	353	349	352
0	0	0	0	0	0	0	0	67.5°	304	305	310	315
								70°	258	258	240	249
								72.5°	207	213	199	205
								75°	117	140	137	134
								77.5°	76	95	103	102
								80°	35	40	52	64
								82.5°	19	20	21	20
								85°	9	9	10	10
								87.5°	6	5	5	5
								90°	3	3	3	3
								92.5°	2	2	2	2
								95°	2	2	1	1
								97.5°	1	1	1	1
								100°	1	1	1	1
								102.5°	1	1	1	0
								105°	1	1	1	0
								107.5°	1	1	1	1
								110°	1	1	1	0





REPORT NUMBER: P395148

CATALOG NUMBER: TGS2S302[F;D;M]S[R;C][B;W]

**CANDELA DISTRIBUTION (continued):**

265°	270°	275°	280°	285°	290°	292.5°		247.5°	250°	255°	260°	265°
1036	1036	1036	1036	1036	1036	1036	112.5°	1	1	1	0	0
1040	1033	1038	1032	1040	1041	1041	115°	1	1	1	1	0
1041	1031	1038	1032	1040	1039	1040	117.5°	1	1	1	0	0
1040	1031	1036	1030	1039	1040	1039	120°	1	1	1	0	0
1035	1025	1033	1025	1036	1036	1037	122.5°	1	0	0	0	0
1030	1021	1027	1021	1033	1033	1031	125°	1	1	0	0	0
1023	1014	1020	1014	1024	1024	1023	127.5°	1	1	0	0	0
1015	1005	1010	1005	1016	1014	1014	130°	0	0	0	0	0
1003	992	1000	992	1003	1000	999	132.5°	1	0	0	0	0
989	980	986	980	989	987	983	135°	0	0	0	0	0
972	964	970	965	972	969	968	137.5°	0	0	0	0	0
948	942	949	943	951	950	946	140°	0	0	0	0	0
927	919	927	920	929	925	923	142.5°	0	0	0	0	0
907	900	905	898	904	901	899	145°	0	0	0	0	0
882	876	882	871	879	877	873	147.5°	0	0	0	0	0
855	854	858	845	852	849	848	150°	0	0	0	0	0
828	821	828	817	825	820	820	152.5°	0	0	0	0	0
793	790	798	785	791	791	786	155°	0	0	0	0	0
763	760	764	760	762	756	756	157.5°	0	0	0	0	0
730	729	730	721	730	726	725	160°	0	0	0	1	0
696	690	694	687	691	691	685	162.5°	0	0	0	1	0
652	653	659	650	654	651	649	165°	0	0	0	0	0
607	610	615	609	612	610	608	167.5°	0	0	0	0	0
545	546	550	549	561	564	559	170°	0	0	0	0	0
486	482	492	485	491	488	492	172.5°	0	0	0	0	0
417	413	417	417	426	426	436	175°	0	0	0	0	0
352	359	357	357	360	364	362	177.5°	0	0	0	0	0
315	314	320	316	311	316	316	180°	0	0	0	0	0
252	252	249	249	253	266	271						
207	214	206	209	209	210	214						
139	145	138	143	142	156	142						
108	104	104	99	96	100	84						
64	57	66	69	57	52	43						
19	19	19	20	20	20	19						
10	9	9	10	11	10	11						
4	4	5	5	5	5	5						
2	2	3	3	3	3	3						
1	1	2	2	2	2	3						
1	1	1	1	1	2	2						
1	0	1	1	1	1	2						
0	0	0	1	1	1	1						
0	0	1	0	1	1	1						
0	0	0	1	1	1	1						
0	0	0	1	1	1	1						
0	0	0	1	1	1	1						



REPORT NUMBER: P395148

CATALOG NUMBER: TGS2S302[F;D;M]S[R;C][B;W]

**CANDELA DISTRIBUTION (continued):**

270°	275°	280°	285°	290°	292.5°		295°	300°	305°	310°	315°	320°
0	0	1	1	1	1	0°	1036	1036	1036	1036	1036	1036
0	0	1	1	1	1	2.5°	1041	1039	1030	1032	1034	1039
0	0	0	1	1	1	5°	1040	1039	1030	1030	1030	1037
0	0	0	1	1	1	7.5°	1039	1039	1028	1025	1028	1033
0	0	0	1	1	1	10°	1035	1033	1022	1021	1022	1025
0	0	0	1	1	1	12.5°	1031	1028	1016	1013	1014	1019
0	0	0	1	1	1	15°	1022	1019	1007	1005	1005	1009
0	0	0	1	1	1	17.5°	1011	1008	995	991	994	998
0	0	0	0	1	1	20°	996	994	982	980	982	988
0	0	0	0	1	1	22.5°	981	978	969	968	969	971
0	0	0	0	0	1	25°	965	963	953	949	951	956
0	0	0	0	0	1	27.5°	945	948	936	932	936	942
0	0	0	1	0	1	30°	919	925	914	914	919	923
0	0	0	0	1	1	32.5°	896	896	888	893	900	902
0	0	0	1	1	1	35°	869	868	864	865	873	877
0	0	0	1	0	0	37.5°	842	844	836	836	844	849
0	0	0	0	1	1	40°	816	816	806	806	811	815
0	0	0	1	1	1	42.5°	783	789	781	776	780	779
0	1	1	1	1	1	45°	754	756	745	743	745	741
0	0	1	1	1	1	47.5°	721	720	710	705	710	706
0	1	1	0	1	1	50°	682	685	674	667	673	678
0	0	0	1	1	1	52.5°	642	641	634	633	641	653
1	1	0	1	1	1	55°	602	598	593	595	613	591
0	1	0	1	1	1	57.5°	558	556	558	562	557	494
0	0	0	1	0	1	60°	499	507	520	511	459	443
0	0	1	1	0	0	62.5°	434	445	458	411	401	352
0	0	0	1	0	0	65°	362	392	362	334	300	265
0	0	0	0	0	0	67.5°	315	310	277	250	220	173
						70°	274	235	209	166	134	98
						72.5°	199	176	138	107	77	70
						75°	125	117	95	60	55	51
						77.5°	81	64	44	43	39	33
						80°	43	32	31	27	25	23
						82.5°	19	19	18	16	16	15
						85°	10	10	10	10	10	10
						87.5°	6	6	6	7	7	7
						90°	4	4	4	5	5	5
						92.5°	3	3	3	3	4	4
						95°	2	2	2	3	3	3
						97.5°	2	2	2	2	3	3
						100°	1	2	2	2	3	3
						102.5°	1	1	2	2	2	3
						105°	1	2	2	2	2	3
						107.5°	1	2	2	2	2	3
						110°	1	2	2	2	2	2



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**CANDELA DISTRIBUTION (continued):**

325°	330°	335°	337.5°	340°		295°	300°	305°	310°	315°	320°	325°
1036	1036	1036	1036	1036	112.5°	1	2	2	2	2	2	3
1038	1031	1044	1041	1040	115°	1	1	2	2	2	2	3
1037	1029	1041	1038	1039	117.5°	1	1	2	2	2	2	3
1030	1023	1035	1030	1031	120°	1	2	2	2	2	2	3
1024	1016	1025	1022	1021	122.5°	1	1	1	2	2	2	2
1017	1009	1019	1015	1014	125°	1	1	2	2	2	2	3
1008	1000	1009	1006	1006	127.5°	1	1	2	2	2	2	3
996	989	996	994	991	130°	1	1	2	2	2	2	2
985	973	982	980	979	132.5°	1	1	1	2	2	2	2
970	961	967	966	965	135°	1	1	1	2	2	2	2
955	945	951	949	949	137.5°	1	1	1	1	2	2	2
939	925	931	929	931	140°	1	1	1	2	2	2	2
919	906	909	907	909	142.5°	0	1	1	1	2	2	2
897	884	888	892	892	145°	0	1	1	1	2	2	2
874	864	867	867	868	147.5°	1	1	1	1	1	2	2
844	834	837	837	835	150°	1	1	1	1	1	1	2
813	803	805	809	808	152.5°	1	1	1	1	1	1	2
779	774	778	779	779	155°	1	1	1	1	1	1	2
742	747	754	760	764	157.5°	1	1	1	1	1	1	2
713	721	736	736	728	160°	1	1	1	1	1	1	2
691	681	664	644	627	162.5°	1	1	1	1	1	1	1
644	590	559	563	563	165°	1	1	1	1	1	1	1
540	513	524	523	506	167.5°	1	1	1	1	1	1	1
481	463	400	369	360	170°	1	1	1	1	1	1	1
407	326	318	330	329	172.5°	1	1	1	1	1	1	0
287	294	232	213	180	175°	1	1	1	1	0	0	0
240	163	133	128	125	177.5°	1	0	0	0	0	0	0
133	109	101	96	92	180°	0	0	0	0	0	0	0
89	80	75	71	68								
64	60	54	51	48								
45	41	35	35	33								
30	26	26	25	25								
21	20	19	18	18								
15	14	13	13	12								
9	9	9	9	9								
7	7	7	7	7								
5	5	5	5	5								
4	4	4	4	4								
3	3	4	4	4								
3	4	4	4	4								
3	3	4	4	4								
3	3	3	3	4								
3	3	4	4	4								
3	3	4	4	4								
3	3	3	3	3								

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**CANDELA DISTRIBUTION (continued):**

330°	335°	337.5°	340°		345°	350°	355°	360°
3	3	3	3	0°	1036	1036	1036	1036
3	3	3	3	2.5°	1026	1032	1042	1036
3	3	3	3	5°	1022	1028	1041	1033
3	3	3	3	7.5°	1016	1021	1033	1026
3	3	3	3	10°	1007	1011	1025	1017
3	3	3	3	12.5°	1000	1005	1018	1007
3	3	3	3	15°	991	994	1007	995
3	3	3	3	17.5°	977	981	994	983
2	3	3	3	20°	965	969	983	969
2	3	3	3	22.5°	953	957	970	956
2	2	3	3	25°	937	937	950	935
2	2	2	2	27.5°	919	919	929	916
2	2	2	2	30°	900	897	909	897
2	2	2	2	32.5°	879	875	885	875
2	2	2	2	35°	852	849	856	845
2	2	2	2	37.5°	822	820	828	816
2	2	2	2	40°	797	793	799	790
2	2	2	2	42.5°	774	773	780	776
2	2	2	2	45°	756	745	747	740
2	2	1	2	47.5°	693	662	656	644
2	2	2	2	50°	594	581	581	572
1	1	1	1	52.5°	554	544	537	507
1	1	1	1	55°	447	399	387	377
1	1	1	1	57.5°	341	353	357	349
1	1	1	1	60°	292	243	206	198
0	1	1	0	62.5°	154	144	143	134
0	0	0	0	65°	114	106	102	100
0	0	0	0	67.5°	86	80	78	76
				70°	63	60	59	57
				72.5°	45	42	39	37
				75°	31	29	28	26
				77.5°	23	23	22	21
				80°	17	17	16	15
				82.5°	12	11	10	10
				85°	8	8	8	7
				87.5°	6	6	6	6
				90°	5	5	5	5
				92.5°	4	5	5	5
				95°	4	5	4	4
				97.5°	4	4	4	4
				100°	4	4	4	4
				102.5°	4	4	4	4
				105°	4	4	4	4
				107.5°	4	4	4	4
				110°	4	4	4	4



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**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
112.5°	4	4	4	4
115°	4	3	3	3
117.5°	3	3	3	3
120°	3	3	3	3
122.5°	3	3	3	3
125°	3	3	3	3
127.5°	3	3	3	3
130°	3	3	3	3
132.5°	3	3	3	3
135°	3	3	3	3
137.5°	3	3	3	3
140°	3	3	3	3
142.5°	2	2	3	2
145°	2	2	2	2
147.5°	2	2	2	2
150°	2	2	2	2
152.5°	2	2	2	2
155°	2	2	2	2
157.5°	2	2	2	2
160°	2	2	2	2
162.5°	2	1	2	2
165°	1	1	1	1
167.5°	1	1	1	1
170°	1	1	1	1
172.5°	1	1	1	1
175°	1	1	0	0
177.5°	0	0	0	0
180°	0	0	0	0

(END OF REPORT)