

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: P395149

Luminaire Tested: **TGS2S402[F;D;M]S[R;C][B;W]**

Test Date: 02/11/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395149  
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: TGS2S402[F;D;M]S[R;C][B;W]  
Description: 4000K TWIN SQUARE HEAD LED FLOOD, SELECTABLE LUMEN  
Light Source: 4000K CCT, 70 CRI LEDs  
Ballast/Driver: (1) Electronic Driver

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2697.9 lumens  
Efficiency: N/A  
Efficacy: 129.1 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

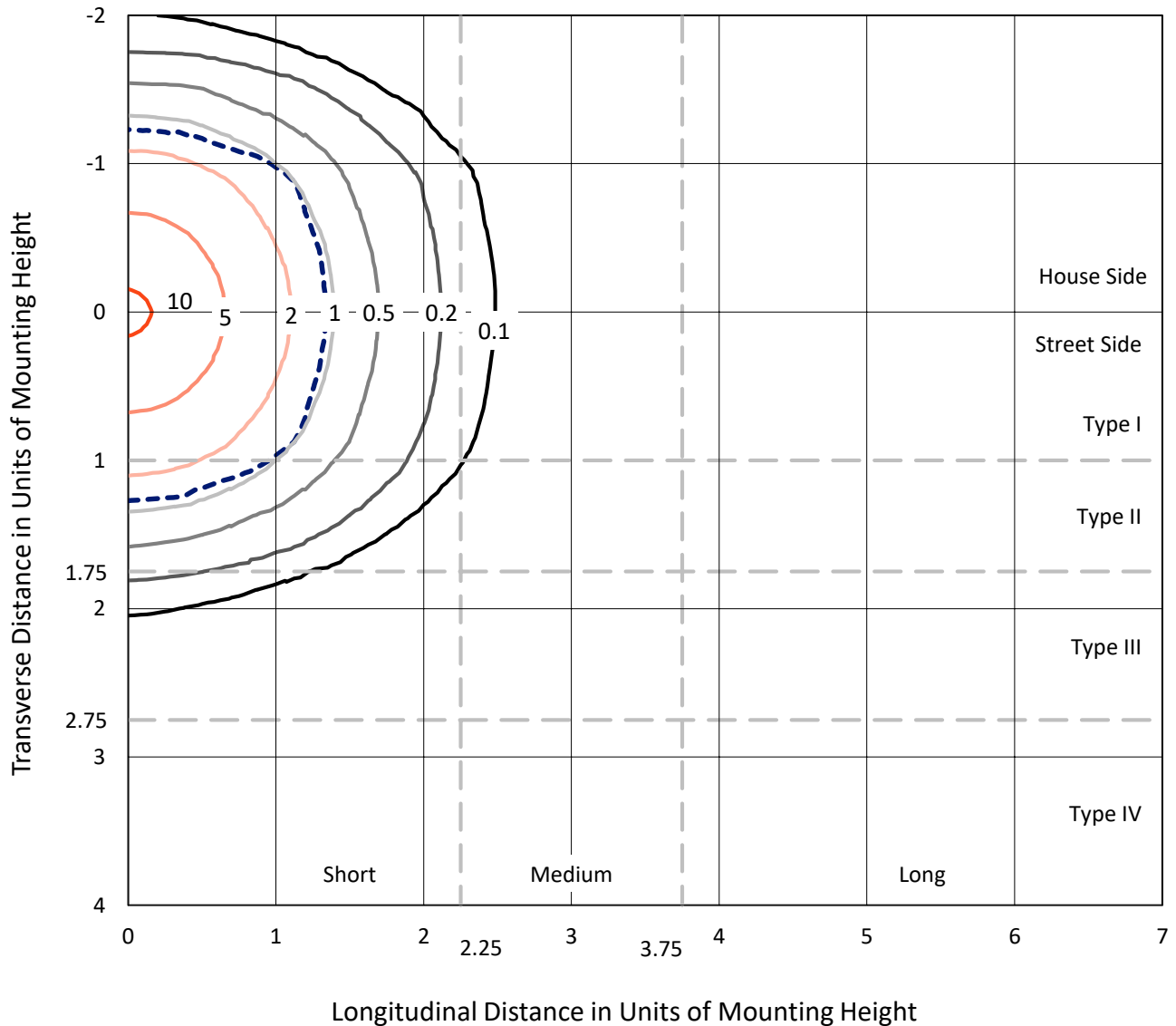
Input Watts (W): 20.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.174  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

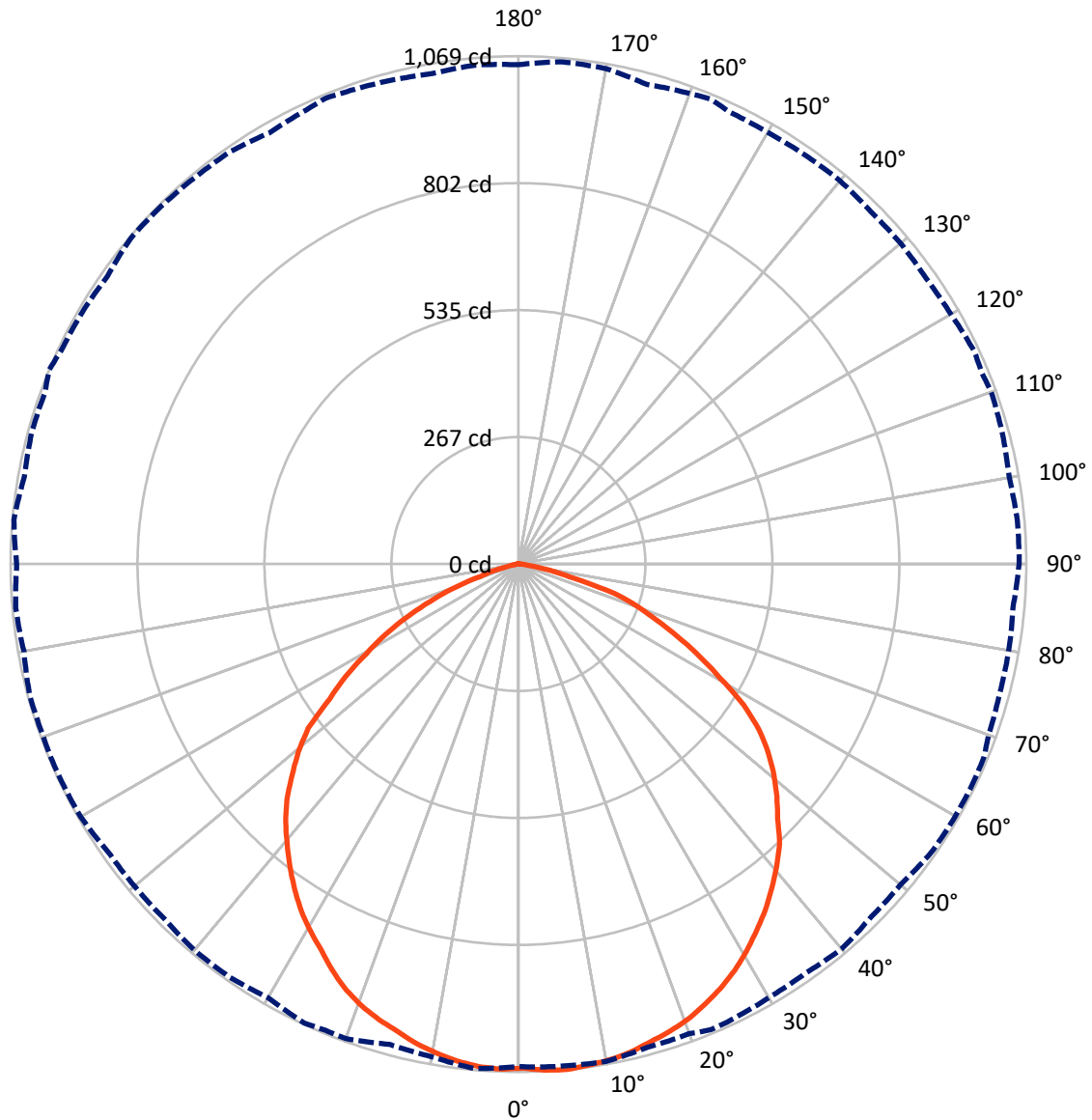
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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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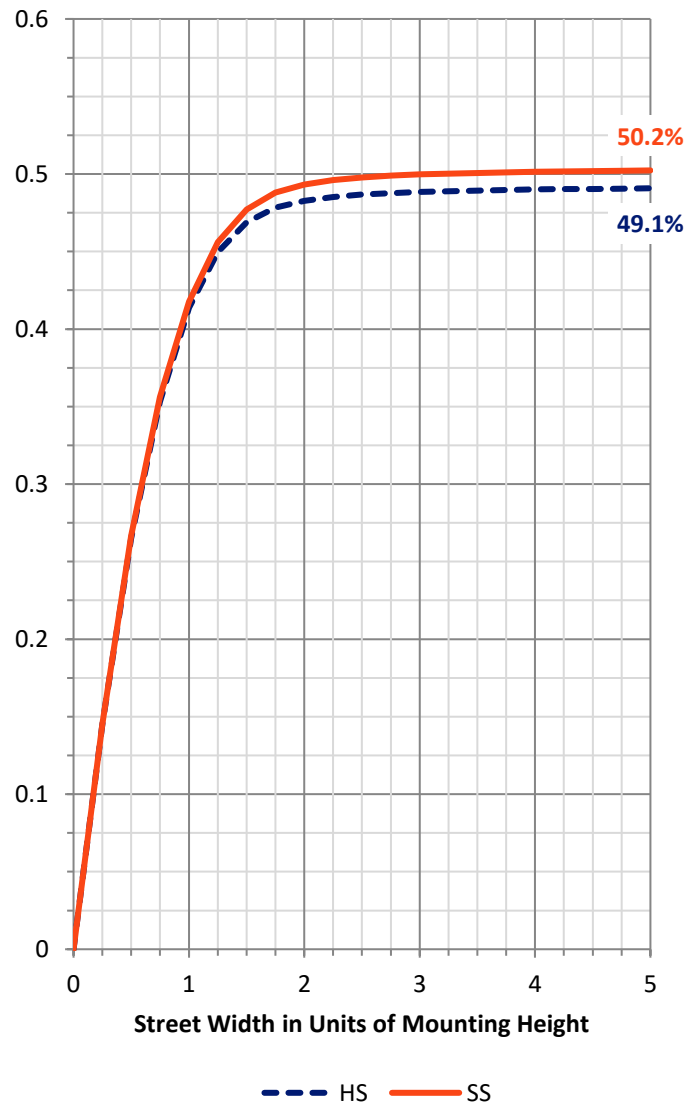
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1333.0	5.0	1338.0
	% Fixture	49.4	0.2	49.6
<b>Street Side</b>	Lumens	1353.8	6.1	1359.9
	% Fixture	50.2	0.2	50.4
<b>Total</b>	Lumens	2686.8	11.1	2697.9
	% Fixture	99.6	0.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	3.7
10°-20°	289.0	10.7
20°-30°	442.8	16.4
30°-40°	539.9	20.0
40°-50°	563.8	20.9
50°-60°	452.1	16.8
60°-70°	223.0	8.3
70°-80°	65.9	2.4
80°-90°	9.9	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°	2686.8	99.6
0°-180°	2697.9	100.0



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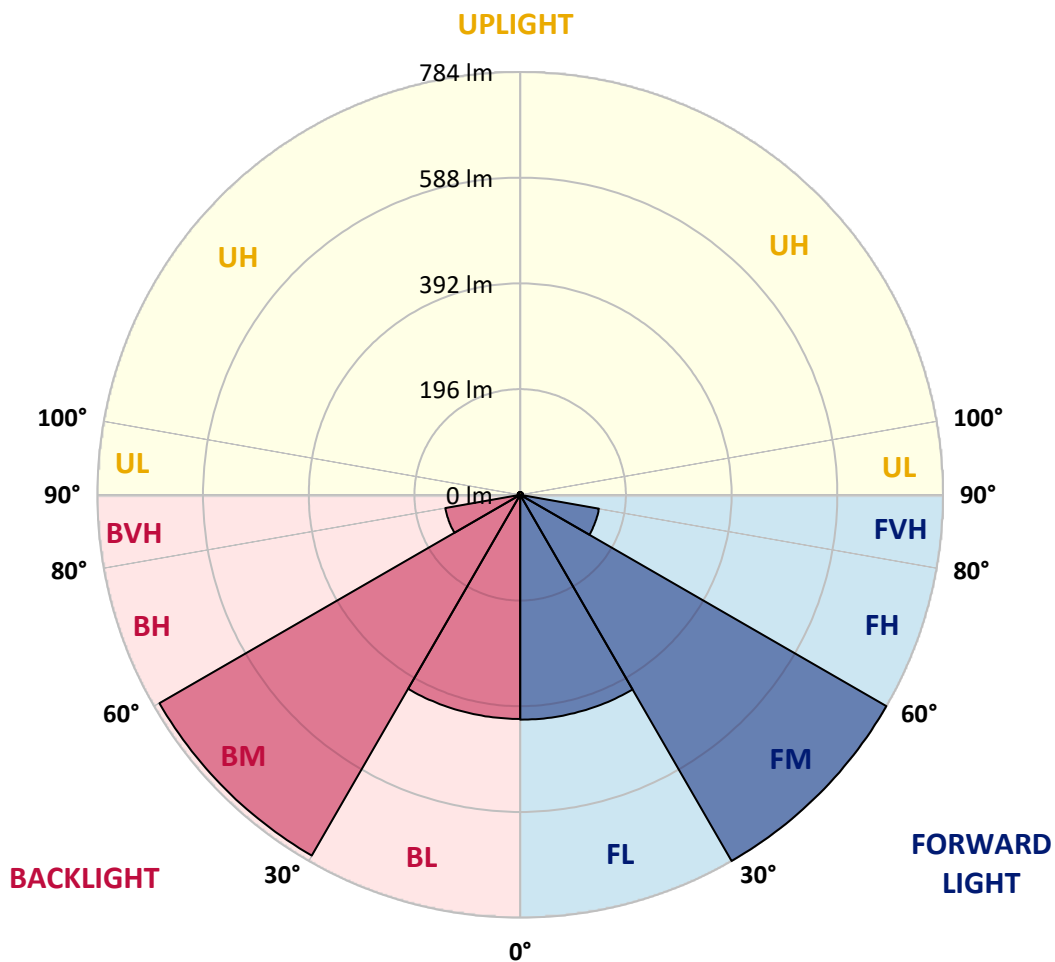
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.8	15.4			
FM	(30°-60°)	783.7	29.0			
FH	(60°-80°)	148.1	5.5			G0/660
FVH	(80°-90°)	5.2	0.2			G0/10
BL	(0°-30°)	415.4	15.4	B1/500		
BM	(30°-60°)	772.1	28.6	B1/1000		
BH	(60°-80°)	140.8	5.2	B1/500		G1/500
BVH	(80°-90°)	4.7	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°	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061
2.5°	1061	1061	1067	1057	1054	1063	1061	1058	1055	1061	1054
5°	1058	1061	1063	1053	1052	1061	1059	1054	1052	1058	1050
7.5°	1051	1054	1056	1047	1045	1056	1051	1047	1045	1050	1045
10°	1041	1045	1043	1038	1039	1046	1040	1038	1035	1038	1034
12.5°	1032	1033	1032	1029	1027	1034	1031	1025	1024	1027	1021
15°	1019	1022	1022	1015	1017	1023	1019	1011	1012	1013	1009
17.5°	1006	1006	1008	1000	1002	1009	1003	998	999	1001	995
20°	992	994	993	986	988	994	990	983	984	984	978
22.5°	979	977	976	972	972	977	975	969	968	968	962
25°	957	959	959	949	955	960	957	950	950	949	942
27.5°	938	936	935	928	933	940	938	929	931	929	922
30°	918	912	913	907	910	914	912	910	908	901	894
32.5°	896	888	890	892	893	895	892	882	879	870	862
35°	865	857	861	861	859	864	864	855	851	835	833
37.5°	835	830	829	832	829	832	829	818	820	811	803
40°	809	803	802	802	801	800	795	789	787	780	773
42.5°	794	788	784	783	774	770	765	752	749	744	737
45°	758	743	742	748	750	746	743	727	721	708	698
47.5°	660	644	644	662	676	679	682	686	695	676	664
50°	585	585	584	586	583	585	592	601	629	638	634
52.5°	520	516	515	526	531	535	533	530	548	566	590
55°	386	380	377	397	413	420	437	465	490	487	507
57.5°	357	343	338	336	339	344	349	354	385	421	435
60°	202	201	204	224	240	257	265	274	306	325	357
62.5°	137	135	132	131	136	142	150	181	214	236	265
65°	103	101	100	100	105	107	106	108	126	156	172
67.5°	77	75	74	74	76	76	78	84	89	92	109
70°	58	56	54	55	55	56	57	58	61	65	68
72.5°	38	39	38	38	38	38	40	41	43	44	49
75°	27	27	26	26	26	26	26	27	28	29	31
77.5°	21	21	20	19	19	19	19	19	19	19	20
80°	15	15	15	14	14	14	14	13	13	13	13
82.5°	11	10	10	10	10	9	10	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°	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061
2.5°	1052	1063	1065	1065	1064	1059	1057	1054	1051	1059	1060
5°	1050	1060	1062	1062	1061	1053	1049	1048	1045	1054	1054
7.5°	1043	1056	1057	1056	1054	1047	1043	1041	1038	1049	1049
10°	1034	1044	1047	1045	1044	1037	1035	1033	1031	1040	1041
12.5°	1021	1032	1035	1035	1032	1028	1029	1025	1021	1032	1031
15°	1008	1019	1020	1020	1016	1012	1014	1012	1012	1022	1020
17.5°	994	1003	1004	1003	1003	1000	1001	999	997	1008	1006
20°	980	991	992	989	987	985	986	983	981	992	990
22.5°	963	975	972	971	967	964	963	960	960	970	967
25°	940	949	950	945	942	939	940	937	937	942	938
27.5°	915	924	920	914	913	912	913	912	912	922	916
30°	888	895	893	890	888	887	886	887	891	898	891
32.5°	859	868	868	864	862	859	861	861	864	872	868
35°	831	839	840	837	831	833	835	835	836	844	839
37.5°	802	812	809	801	799	799	804	804	803	813	808
40°	766	776	773	768	765	766	767	771	771	779	771
42.5°	733	733	734	735	732	733	733	730	736	742	734
45°	696	702	696	696	695	694	695	694	700	703	697
47.5°	660	663	662	658	651	650	657	656	660	669	666
50°	621	620	616	612	609	613	616	614	617	622	616
52.5°	583	575	569	563	561	559	552	544	548	556	544
55°	526	532	514	494	487	487	489	485	483	489	487
57.5°	448	462	451	436	433	429	427	422	420	424	425
60°	372	385	403	379	371	367	368	365	360	369	365
62.5°	283	319	310	327	318	314	312	307	309	311	310
65°	207	218	264	254	262	262	254	250	249	253	248
67.5°	129	158	175	205	202	214	210	203	205	203	209
70°	81	100	125	144	151	141	137	134	139	153	144
72.5°	51	61	68	77	83	96	101	97	90	92	88
75°	32	35	38	49	56	47	50	67	75	54	61
77.5°	20	21	22	22	23	23	26	21	19	18	18
80°	13	13	12	12	12	12	12	11	11	11	11
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°	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061
2.5°	1054	1061	1065	1061	1065	1056	1055	1057	1055	1056	1055
5°	1049	1055	1059	1055	1059	1051	1048	1050	1049	1053	1051
7.5°	1043	1047	1052	1046	1053	1044	1040	1043	1041	1044	1043
10°	1034	1039	1043	1039	1043	1033	1032	1032	1032	1036	1037
12.5°	1026	1031	1032	1029	1035	1026	1023	1021	1023	1025	1027
15°	1014	1017	1020	1016	1020	1010	1006	1007	1010	1014	1015
17.5°	1002	1004	1007	1002	1007	996	990	994	996	1000	1002
20°	985	991	992	992	993	983	979	978	979	981	984
22.5°	961	968	973	972	977	967	964	963	963	966	967
25°	937	942	947	948	951	942	942	942	943	948	947
27.5°	913	917	918	918	921	912	912	916	921	928	927
30°	885	889	890	891	891	880	882	889	897	906	904
32.5°	860	860	860	861	862	853	854	858	871	880	881
35°	834	834	834	834	833	824	825	830	838	848	849
37.5°	804	806	803	801	801	791	789	796	800	812	812
40°	769	773	770	771	774	766	762	763	771	778	771
42.5°	726	730	733	737	740	738	733	733	736	736	740
45°	694	695	698	697	695	692	693	695	692	695	705
47.5°	662	660	654	651	651	644	654	666	664	668	688
50°	617	616	627	627	624	610	610	615	631	643	613
52.5°	544	557	558	559	562	565	573	581	587	571	528
55°	489	492	499	498	498	506	524	537	512	489	485
57.5°	429	429	436	443	445	453	469	464	440	404	374
60°	359	370	362	365	365	391	395	375	352	318	306
62.5°	312	316	315	315	316	315	297	282	254	234	204
65°	250	254	260	272	281	254	221	201	174	149	124
67.5°	207	208	225	216	209	171	171	126	103	87	83
70°	141	140	146	158	133	133	96	77	64	59	57
72.5°	91	103	93	78	80	66	52	46	43	41	39
75°	75	55	47	45	41	33	31	30	28	27	25
77.5°	19	21	21	20	20	19	18	18	18	17	17
80°	11	11	11	10	11	11	11	12	12	12	13
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: P395149  
 NUMBER: TGS2S402[F;D;M]S[R;C][B;W]

REPORT NUMBER: P  
 CATALOG NUMBER:

<b>DISTRIBUTION (continued):</b>											<b>CANDELA DISTRIBUTION</b>	
150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°	112.5°	150°
1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	112.5°	3
1051	1054	1062	1059	1049	1062	1065	1054	1060	1052	1057	115°	3
1049	1050	1059	1054	1045	1059	1061	1051	1054	1048	1053	117.5°	3
1041	1044	1052	1048	1039	1052	1055	1045	1047	1042	1046	120°	3
1032	1034	1041	1037	1030	1045	1048	1036	1040	1034	1038	122.5°	2
1024	1025	1031	1029	1020	1035	1038	1029	1032	1026	1029	125°	1
1013	1011	1018	1015	1009	1023	1026	1019	1019	1014	1021	127.5°	1
994	992	1000	1000	994	1006	1007	1003	1002	1000	1005	130°	1
976	977	982	981	977	988	990	989	987	984	988	132.5°	1
959	959	967	964	963	971	972	970	970	965	969	135°	1
941	941	949	946	945	953	958	950	950	948	950	137.5°	1
918	920	929	927	929	935	939	930	933	930	934	140°	1
894	897	907	906	908	916	918	912	915	914	916	142.5°	1
871	876	886	883	885	888	885	883	889	893	898	145°	1
845	845	855	848	845	847	847	844	852	854	860	147.5°	1
807	811	817	816	819	821	823	816	825	826	828	150°	1
769	779	785	784	792	801	807	799	807	804	803	152.5°	1
743	757	766	765	777	794	792	788	800	797	792	155°	1
727	745	753	744	740	732	713	714	733	751	766	157.5°	1
684	662	654	643	627	627	619	612	626	638	656	160°	1
588	571	571	566	568	581	593	582	584	583	583	162.5°	1
517	533	534	523	499	472	452	459	505	517	553	165°	1
437	404	399	382	371	368	369	365	369	374	389	167.5°	1
342	351	354	350	338	323	302	306	344	381	368	170°	1
267	230	219	201	185	175	170	169	174	184	213	172.5°	0
168	145	137	132	130	129	127	129	131	135	141	175°	0
108	105	101	97	94	92	94	96	97	101	107	177.5°	0
75	73	74	72	71	70	71	74	74	76	81	180°	0
54	52	52	51	48	48	49	51	53	56	60		
37	34	34	33	33	33	33	33	35	37	41		
24	24	24	24	24	24	25	24	26	26	27		
17	17	18	17	18	18	18	19	19	20	20		
13	13	13	13	13	13	13	13	14	15	15		
9	8	9	8	8	9	9	9	9	10	10		
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		

'395149  
 TGS2S402[F;D;M]S[R;C][B;W]

REPORT NUMBER: P395149  
 CATALOG NUMBER: TGS2S402

**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°	1061	1061
3	3	3	3	3	3	3	3	3	3	2.5°	1062	1064
3	3	3	3	3	3	3	3	3	3	5°	1058	1061
3	3	3	3	3	3	3	3	3	3	7.5°	1049	1053
2	2	3	3	3	3	3	3	3	3	10°	1040	1045
2	2	3	3	3	3	3	3	3	3	12.5°	1032	1038
2	2	2	2	2	3	3	3	2	2	15°	1023	1029
2	2	2	2	3	3	3	2	2	2	17.5°	1007	1014
2	2	2	2	2	2	2	2	2	2	20°	993	998
2	2	2	2	2	2	2	2	2	2	22.5°	973	979
1	2	2	2	2	2	2	2	2	2	25°	956	962
2	2	2	2	2	2	2	2	2	2	27.5°	939	946
2	2	2	2	2	2	2	2	2	2	30°	917	926
2	2	2	2	2	2	2	2	2	2	32.5°	902	906
2	2	2	2	2	2	2	2	2	2	35°	868	874
2	1	2	2	2	2	2	1	2	2	37.5°	829	833
1	2	2	2	2	2	2	2	2	2	40°	805	807
1	1	2	1	2	1	1	1	1	1	42.5°	787	789
1	1	2	1	2	2	1	1	1	1	45°	768	770
1	1	1	1	1	1	1	1	1	1	47.5°	689	715
1	1	1	1	1	1	1	1	1	1	50°	590	605
1	1	1	1	1	1	1	1	1	1	52.5°	548	546
1	1	1	1	1	1	1	1	1	1	55°	439	478
1	1	1	1	1	1	1	1	1	1	57.5°	344	347
0	1	1	0	0	0	0	1	0	0	60°	289	318
0	0	0	0	0	0	0	0	0	0	62.5°	147	154
0	0	0	0	0	0	0	0	0	0	65°	115	121
0	0	0	0	0	0	0	0	0	0	67.5°	85	89
										70°	65	68
										72.5°	45	47
										75°	29	31
										77.5°	22	22
										80°	16	16
										82.5°	11	11
										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: P395149

CATALOG NUMBER: TGS2S402[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°
1061	1061	1061	1061	1061	1061	1061	1061	1061	112.5°	3	3	3
1058	1053	1060	1062	1065	1068	1059	1061	1061	115°	3	3	3
1055	1048	1059	1061	1064	1066	1056	1060	1062	117.5°	3	3	3
1045	1040	1053	1055	1060	1061	1052	1058	1061	120°	3	3	3
1037	1033	1044	1048	1053	1054	1045	1051	1054	122.5°	3	3	2
1031	1027	1036	1038	1043	1046	1037	1041	1048	125°	3	2	2
1023	1017	1031	1032	1035	1036	1029	1032	1036	127.5°	2	1	2
1007	1005	1019	1022	1026	1027	1020	1026	1028	130°	2	1	1
991	993	1005	1008	1014	1016	1009	1013	1015	132.5°	2	1	1
976	978	989	992	998	1001	995	1000	1001	135°	2	1	1
958	959	972	973	979	982	976	982	985	137.5°	1	1	1
941	942	956	954	957	961	958	966	966	140°	1	1	1
915	924	934	936	937	938	933	938	942	142.5°	1	1	1
898	901	911	911	908	909	904	912	917	145°	1	1	1
871	871	887	883	882	880	878	883	888	147.5°	1	1	1
831	836	856	859	858	853	852	859	859	150°	1	1	1
801	805	818	827	829	829	824	826	829	152.5°	1	1	1
782	774	782	786	791	792	790	797	801	155°	1	1	1
765	753	755	754	751	753	758	761	760	157.5°	1	1	1
724	744	737	721	715	711	721	726	732	160°	1	1	1
622	664	704	695	677	674	682	697	691	162.5°	1	1	1
545	558	608	659	656	645	638	647	656	165°	1	1	1
501	515	515	556	625	624	604	599	613	167.5°	1	1	1
353	415	479	477	513	567	564	561	564	170°	1	1	1
342	319	355	425	439	482	525	509	495	172.5°	1	0	1
175	258	309	314	372	390	436	441	427	175°	0	0	0
125	137	188	255	274	316	325	391	371	177.5°	0	0	0
94	104	113	154	201	223	266	280	313	180°	0	0	0
70	75	83	92	115	163	190	224	268				
49	54	61	68	73	90	127	170	179				
32	36	43	48	52	59	62	97	142				
23	25	28	32	37	42	45	47	70				
17	17	18	20	22	26	30	31	32				
11	13	13	14	15	15	17	18	18				
8	8	8	9	10	10	10	10	10				
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: P395149

CATALOG NUMBER: TGS2S402[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°	1061	1061	1061	1061
3	2	2	2	1	1	1	1	2.5°	1067	1058	1061	1056
3	2	2	2	1	1	1	1	5°	1069	1060	1061	1056
2	2	2	2	1	1	1	1	7.5°	1065	1057	1059	1055
2	2	1	1	1	1	1	1	10°	1061	1050	1051	1049
1	1	1	1	1	1	1	1	12.5°	1054	1044	1044	1042
1	1	1	1	1	1	1	1	15°	1043	1036	1036	1035
1	1	1	1	1	1	1	0	17.5°	1034	1027	1029	1029
1	1	1	1	1	1	1	0	20°	1022	1014	1012	1015
1	1	1	1	1	1	0	0	22.5°	1006	1001	1002	1002
1	1	1	1	1	1	0	0	25°	989	982	981	985
1	1	1	1	1	1	0	0	27.5°	969	960	957	961
1	1	1	1	1	1	0	0	30°	946	939	935	940
1	1	1	1	1	1	0	0	32.5°	920	915	914	915
1	1	1	1	0	1	0	0	35°	895	890	887	891
1	1	0	1	0	0	0	0	37.5°	866	864	862	867
1	1	1	1	1	1	0	0	40°	837	835	833	837
1	1	1	0	0	1	0	0	42.5°	806	806	802	804
1	1	1	1	1	0	0	0	45°	765	769	773	773
1	1	1	0	0	0	0	0	47.5°	732	735	735	738
1	1	1	0	1	1	0	0	50°	697	693	696	707
1	1	0	1	1	0	1	0	52.5°	658	655	655	662
1	1	1	0	0	0	1	0	55°	614	615	611	619
1	0	0	0	0	0	0	0	57.5°	559	558	553	558
1	1	0	0	0	0	0	0	60°	488	492	489	494
0	0	0	0	0	0	0	0	62.5°	427	425	420	428
0	0	0	0	0	0	0	0	65°	368	362	357	361
0	0	0	0	0	0	0	0	67.5°	312	313	317	322
								70°	264	264	246	254
								72.5°	212	218	204	210
								75°	120	143	140	137
								77.5°	77	98	105	105
								80°	36	41	53	66
								82.5°	19	20	21	20
								85°	10	10	11	11
								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: P395149

CATALOG NUMBER: TGS2S402[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°
1061	1061	1061	1061	1061	1061	1061	112.5°	1	1	1	0	0
1065	1058	1062	1057	1065	1066	1066	115°	1	1	1	1	0
1066	1056	1062	1057	1065	1064	1065	117.5°	1	1	1	0	0
1065	1056	1061	1055	1064	1065	1064	120°	1	1	1	0	0
1060	1050	1058	1050	1061	1061	1061	122.5°	1	0	0	0	0
1055	1045	1052	1045	1058	1058	1056	125°	1	1	0	0	0
1048	1038	1044	1038	1049	1049	1048	127.5°	1	1	0	0	0
1039	1030	1034	1029	1040	1038	1038	130°	0	0	0	0	0
1027	1016	1024	1016	1027	1024	1023	132.5°	1	0	0	0	0
1013	1003	1009	1003	1013	1010	1006	135°	0	0	0	0	0
996	987	994	988	996	992	991	137.5°	0	0	0	0	0
971	965	972	966	973	972	969	140°	0	0	0	0	0
949	942	949	942	951	947	945	142.5°	0	0	0	0	0
929	921	927	919	926	922	920	145°	0	0	0	0	0
903	897	903	892	900	898	894	147.5°	0	0	0	0	0
876	875	879	865	873	869	868	150°	0	0	0	0	0
848	841	848	837	845	840	840	152.5°	0	0	0	0	0
812	809	817	804	810	810	805	155°	0	0	0	0	0
781	778	783	778	780	774	774	157.5°	0	0	0	0	0
748	746	748	738	747	743	742	160°	0	0	0	1	0
713	706	710	703	707	707	702	162.5°	0	0	0	1	0
668	669	674	666	670	667	665	165°	0	0	0	0	0
621	625	630	623	627	625	622	167.5°	0	0	0	0	0
558	559	563	562	575	578	573	170°	0	0	0	0	0
497	493	504	496	503	499	504	172.5°	0	0	0	0	0
427	423	427	427	436	436	446	175°	0	0	0	0	0
361	368	366	366	369	373	371	177.5°	0	0	0	0	0
322	321	328	323	318	323	323	180°	0	0	0	0	0
258	258	255	254	259	272	278						
212	219	211	214	214	215	219						
142	148	141	146	145	160	145						
110	106	106	102	99	103	86						
66	58	68	71	58	53	45						
19	19	19	20	20	20	19						
11	10	10	11	12	11	12						
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: P395149

CATALOG NUMBER: TGS2S402[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°	1061	1061	1061	1061	1061	1061
0	0	1	1	1	1	2.5°	1066	1064	1055	1057	1059	1064
0	0	0	1	1	1	5°	1065	1064	1055	1055	1055	1061
0	0	0	1	1	1	7.5°	1064	1063	1053	1050	1053	1058
0	0	0	1	1	1	10°	1060	1058	1046	1045	1047	1050
0	0	0	1	1	1	12.5°	1056	1053	1040	1037	1038	1043
0	0	0	1	1	1	15°	1046	1043	1032	1030	1029	1033
0	0	0	1	1	1	17.5°	1035	1032	1019	1015	1018	1022
0	0	0	0	1	1	20°	1020	1018	1005	1003	1005	1011
0	0	0	0	1	1	22.5°	1004	1002	992	991	992	995
0	0	0	0	0	1	25°	988	986	975	972	973	979
0	0	0	0	0	1	27.5°	968	971	959	954	959	965
0	0	0	1	0	1	30°	942	947	936	936	942	945
0	0	0	0	1	1	32.5°	917	917	910	914	921	924
0	0	0	1	1	1	35°	890	889	884	885	894	898
0	0	0	1	0	0	37.5°	862	864	856	856	864	869
0	0	0	0	1	1	40°	836	836	825	825	830	834
0	0	0	1	1	1	42.5°	802	808	799	794	798	797
0	1	1	1	1	1	45°	772	774	762	761	762	759
0	0	1	1	1	1	47.5°	738	737	727	722	727	723
0	1	1	0	1	1	50°	699	702	690	683	689	695
0	0	0	1	1	1	52.5°	657	656	649	648	656	669
1	1	0	1	1	1	55°	616	613	608	610	628	605
0	1	0	1	1	1	57.5°	571	569	572	576	570	506
0	0	0	1	0	1	60°	511	519	532	523	470	454
0	0	1	1	0	0	62.5°	444	456	469	421	410	361
0	0	0	1	0	0	65°	371	402	371	342	307	271
0	0	0	0	0	0	67.5°	322	317	284	256	225	177
						70°	281	241	214	170	137	101
						72.5°	204	180	141	109	78	72
						75°	128	120	98	61	56	52
						77.5°	83	66	45	44	40	34
						80°	45	33	32	28	25	23
						82.5°	19	19	18	16	16	15
						85°	11	11	11	11	11	11
						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°
1061	1061	1061	1061	1061	112.5°	1	2	2	2	2	2	3
1062	1056	1069	1066	1065	115°	1	1	2	2	2	2	3
1061	1054	1066	1062	1063	117.5°	1	1	2	2	2	2	3
1055	1048	1060	1055	1056	120°	1	2	2	2	2	2	3
1049	1040	1050	1047	1045	122.5°	1	1	1	2	2	2	2
1041	1033	1043	1039	1038	125°	1	1	2	2	2	2	3
1032	1024	1033	1031	1031	127.5°	1	1	2	2	2	2	3
1020	1013	1020	1018	1015	130°	1	1	2	2	2	2	2
1008	997	1005	1003	1002	132.5°	1	1	1	2	2	2	2
993	984	990	989	988	135°	1	1	1	2	2	2	2
978	968	973	972	972	137.5°	1	1	1	1	2	2	2
962	947	953	951	953	140°	1	1	1	2	2	2	2
941	928	931	929	931	142.5°	0	1	1	1	2	2	2
918	905	910	913	913	145°	0	1	1	1	2	2	2
895	884	888	887	889	147.5°	1	1	1	1	1	2	2
864	854	857	857	855	150°	1	1	1	1	1	1	2
832	822	824	828	827	152.5°	1	1	1	1	1	1	2
797	792	796	797	797	155°	1	1	1	1	1	1	2
760	764	772	778	782	157.5°	1	1	1	1	1	1	2
730	738	754	754	745	160°	1	1	1	1	1	1	2
707	698	680	660	643	162.5°	1	1	1	1	1	1	1
660	604	573	577	577	165°	1	1	1	1	1	1	1
553	525	536	535	518	167.5°	1	1	1	1	1	1	1
493	474	409	377	369	170°	1	1	1	1	1	1	1
417	334	325	338	337	172.5°	1	1	1	1	1	1	0
294	301	237	218	185	175°	1	1	1	1	0	0	0
246	167	136	131	128	177.5°	1	0	0	0	0	0	0
136	111	104	99	94	180°	0	0	0	0	0	0	0
91	82	76	73	70								
66	61	55	52	49								
46	42	36	36	34								
31	27	26	25	25								
21	20	19	18	18								
15	15	14	14	13								
10	10	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°	1061	1061	1061	1061
3	3	3	3	2.5°	1051	1057	1067	1061
3	3	3	3	5°	1047	1053	1066	1058
3	3	3	3	7.5°	1040	1045	1058	1051
3	3	3	3	10°	1032	1035	1050	1041
3	3	3	3	12.5°	1024	1029	1042	1032
3	3	3	3	15°	1015	1018	1032	1019
3	3	3	3	17.5°	1001	1004	1018	1006
2	3	3	3	20°	988	992	1006	992
2	3	3	3	22.5°	975	980	994	979
2	2	3	3	25°	960	960	972	957
2	2	2	2	27.5°	941	941	951	938
2	2	2	2	30°	921	918	931	918
2	2	2	2	32.5°	900	896	907	896
2	2	2	2	35°	873	869	877	865
2	2	2	2	37.5°	842	840	848	835
2	2	2	2	40°	816	812	818	809
2	2	2	2	42.5°	792	792	798	794
2	2	2	2	45°	774	762	764	758
2	2	1	2	47.5°	709	678	672	660
2	2	2	2	50°	609	595	595	585
1	1	1	1	52.5°	567	557	550	520
1	1	1	1	55°	458	408	397	386
1	1	1	1	57.5°	349	362	366	357
1	1	1	1	60°	299	249	211	202
0	1	1	0	62.5°	158	147	146	137
0	0	0	0	65°	117	108	105	103
0	0	0	0	67.5°	88	82	80	77
				70°	65	61	60	58
				72.5°	46	43	40	38
				75°	32	30	29	27
				77.5°	23	23	22	21
				80°	17	17	16	15
				82.5°	13	12	11	11
				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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CATALOG NUMBER: TGS2S402[F;D;M]S[R;C][B;W]

**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)