

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: P395144

Luminaire Tested: **TGS3S303[F;D;M]R[R;C][B;W]**

Test Date: 02/11/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2001-646-5)  
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: TGS3S303[F;D;M]R[R;C][B;W]  
Description: 3000K TRIPLE ROUND 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: 3212.3 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.58' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

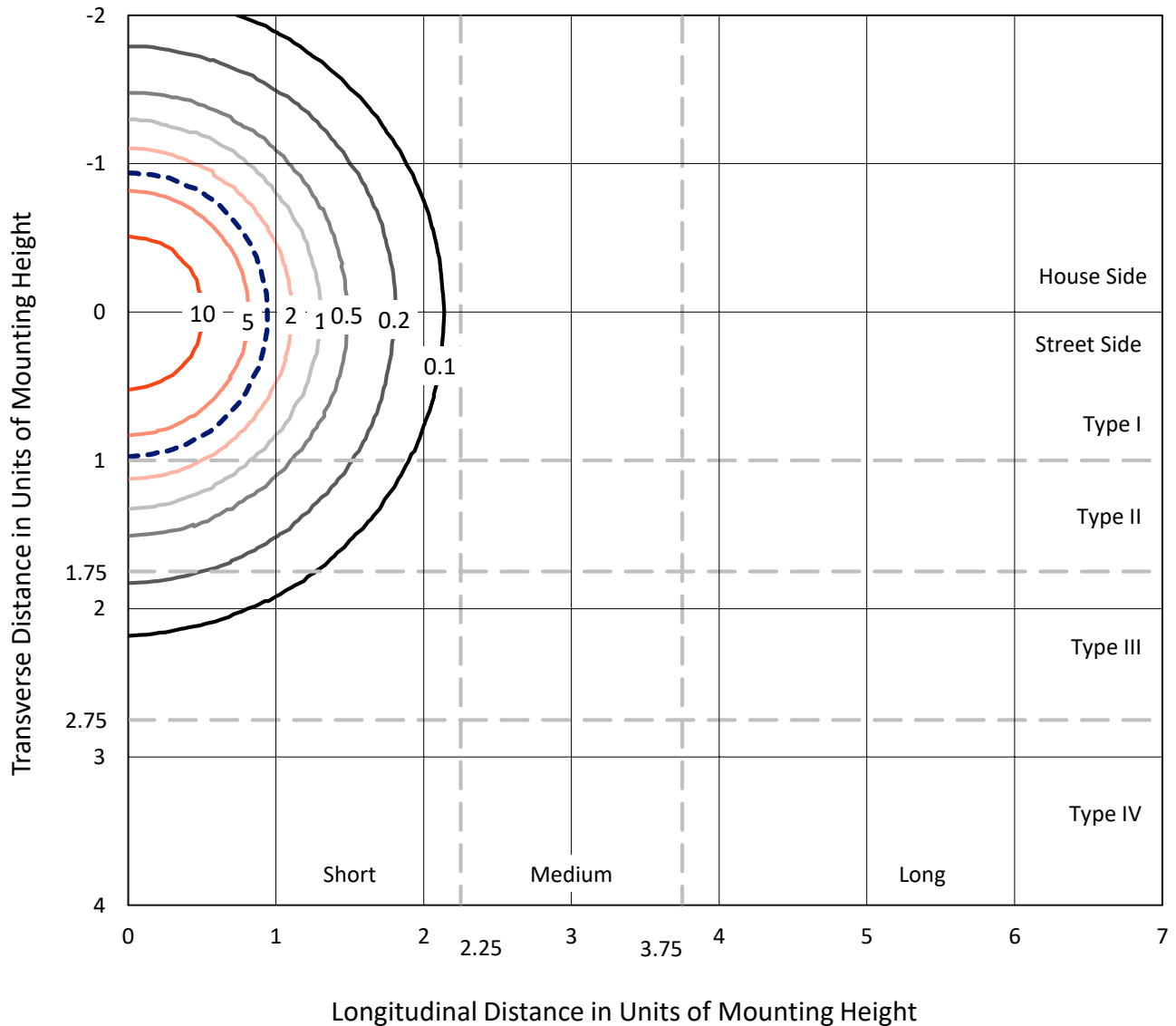
Input Watts (W): 26.8  
Input Voltage (V): 120.0  
Input Current (Ain): 0.223  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P395144  
 CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

### Iso-Footcandle Lines of Horizontal Illumination

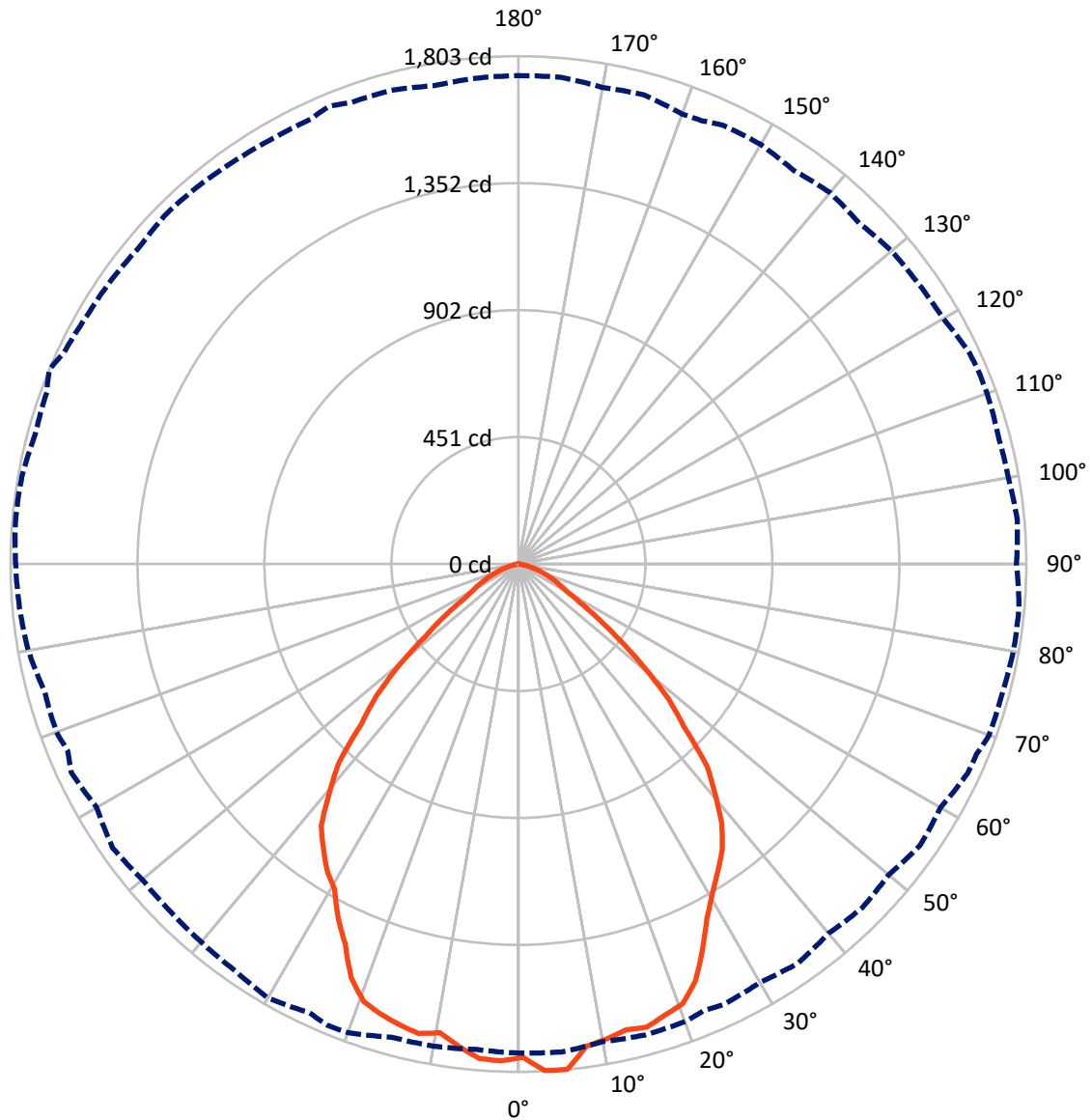
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P395144  
CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P395144

CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

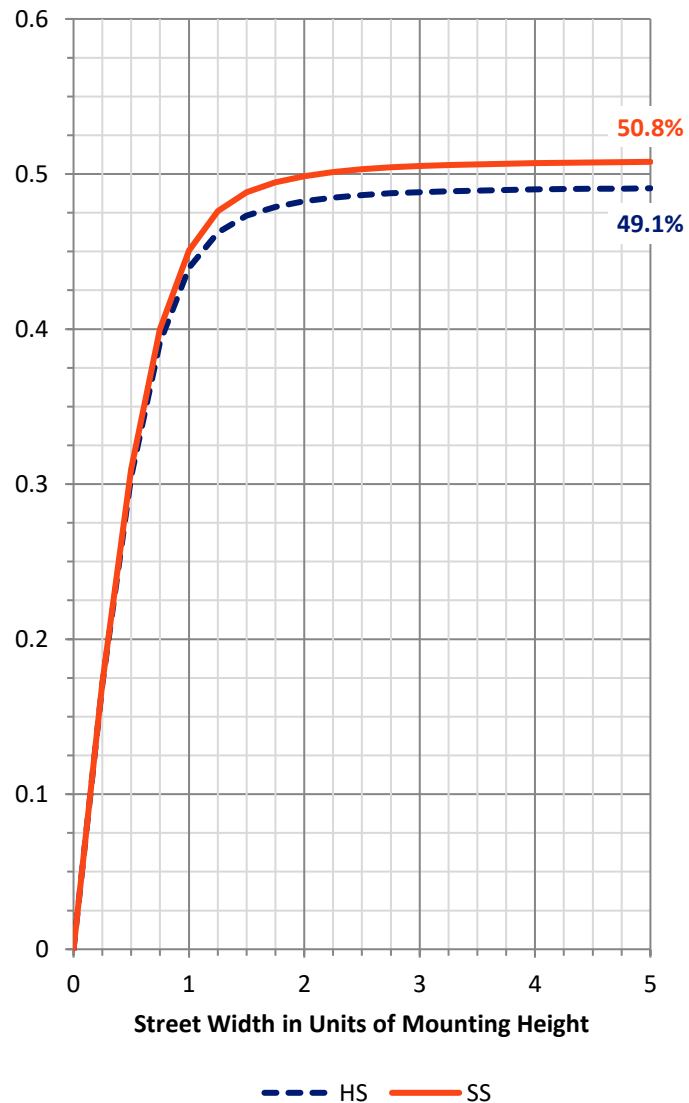
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1586.0	0.0	1586.0
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	1626.3	0.0	1626.3
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	3212.3	0.0	3212.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	5.1
10°-20°	474.6	14.8
20°-30°	686.7	21.4
30°-40°	760.5	23.7
40°-50°	628.5	19.6
50°-60°	309.4	9.6
60°-70°	134.3	4.2
70°-80°	49.0	1.5
80°-90°	4.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3212.3	100.0
0°-180°	3212.3	100.0



REPORT NUMBER: P395144

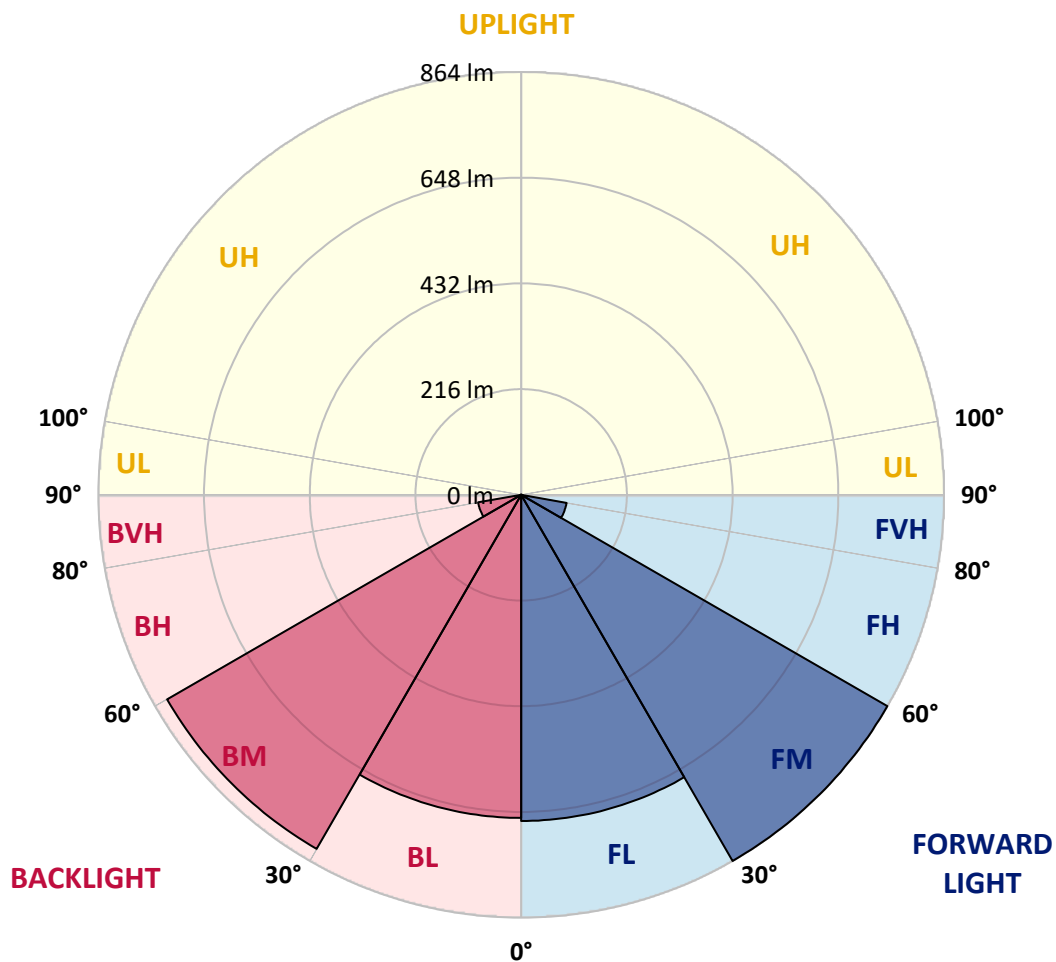
CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.1	20.7			
FM	(30°-60°)	863.5	26.9			
FH	(60°-80°)	94.1	2.9			G0/660
FVH	(80°-90°)	2.5	0.1			G0/10
BL	(0°-30°)	659.7	20.5	B2/1000		
BM	(30°-60°)	835.0	26.0	B1/1000		
BH	(60°-80°)	89.2	2.8	B0/110		G0/660
BVH	(80°-90°)	2.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short





REPORT NUMBER: P395144

CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751
2.5°	1758	1764	1743	1746	1745	1731	1735	1732	1748	1729	1741
5°	1736	1739	1722	1731	1729	1717	1725	1715	1730	1712	1726
7.5°	1708	1706	1688	1701	1697	1689	1697	1692	1712	1694	1710
10°	1713	1712	1692	1704	1697	1684	1687	1676	1685	1661	1666
12.5°	1705	1712	1693	1699	1693	1682	1687	1680	1699	1685	1689
15°	1663	1664	1644	1659	1662	1656	1661	1670	1697	1682	1694
17.5°	1680	1687	1666	1693	1688	1679	1685	1679	1689	1664	1664
20°	1691	1697	1676	1688	1678	1665	1667	1655	1663	1639	1639
22.5°	1606	1605	1575	1585	1579	1572	1571	1561	1576	1562	1565
25°	1530	1528	1503	1522	1512	1497	1499	1487	1497	1479	1476
27.5°	1421	1423	1408	1428	1415	1410	1409	1421	1436	1418	1426
30°	1344	1344	1326	1340	1327	1320	1327	1323	1337	1326	1320
32.5°	1298	1300	1276	1293	1281	1275	1279	1274	1283	1271	1268
35°	1252	1253	1234	1252	1238	1232	1228	1226	1230	1213	1214
37.5°	1208	1206	1182	1187	1169	1164	1161	1161	1167	1152	1156
40°	1124	1113	1095	1093	1078	1078	1077	1072	1080	1063	1055
42.5°	906	917	924	960	977	977	981	977	975	965	963
45°	843	841	826	821	805	821	824	829	845	831	822
47.5°	745	740	728	731	714	708	710	691	702	706	688
50°	562	570	580	591	576	578	575	580	563	547	554
52.5°	489	474	458	464	441	438	444	437	423	414	416
55°	353	350	355	355	346	332	335	319	320	329	321
57.5°	253	251	241	242	242	246	247	242	243	240	239
60°	192	193	192	192	193	194	191	189	192	188	186
62.5°	168	166	164	164	163	163	164	162	164	161	161
65°	142	140	138	138	136	135	137	136	137	135	133
67.5°	113	113	112	113	110	109	110	109	110	109	107
70°	88	88	86	89	85	85	84	84	84	84	83
72.5°	68	68	65	67	65	64	63	62	62	61	60
75°	48	45	46	46	44	44	44	43	43	42	42
77.5°	31	29	29	30	28	28	28	28	28	27	27
80°	18	17	16	16	15	16	15	16	16	15	15
82.5°	8	8	7	8	7	7	7	6	7	7	6
85°	2	2	2	2	2	2	2	2	2	1	2
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P395144

CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751
2.5°	1735	1758	1743	1764	1765	1774	1768	1778	1775	1758	1774
5°	1716	1741	1730	1759	1761	1778	1778	1784	1784	1768	1778
7.5°	1707	1733	1712	1731	1726	1736	1731	1739	1736	1717	1729
10°	1660	1682	1665	1687	1687	1697	1690	1712	1728	1717	1724
12.5°	1680	1698	1684	1707	1704	1711	1705	1707	1695	1677	1687
15°	1682	1688	1667	1694	1689	1697	1690	1696	1684	1673	1686
17.5°	1654	1675	1652	1673	1671	1676	1673	1684	1680	1672	1688
20°	1631	1644	1627	1650	1647	1649	1640	1642	1624	1612	1623
22.5°	1566	1591	1574	1588	1584	1584	1581	1592	1574	1562	1577
25°	1469	1486	1463	1490	1483	1487	1482	1481	1473	1454	1463
27.5°	1414	1427	1399	1414	1410	1407	1391	1399	1393	1383	1389
30°	1319	1333	1313	1331	1326	1328	1318	1336	1322	1314	1328
32.5°	1267	1282	1262	1282	1282	1278	1272	1285	1274	1264	1274
35°	1206	1221	1205	1221	1223	1225	1223	1232	1229	1218	1228
37.5°	1147	1164	1156	1166	1163	1164	1152	1155	1148	1133	1143
40°	1054	1058	1044	1052	1056	1055	1053	1067	1045	1036	1047
42.5°	966	964	946	958	956	942	918	906	896	892	908
45°	826	834	800	798	794	788	795	800	799	795	800
47.5°	685	672	674	686	693	699	693	697	684	672	687
50°	548	560	548	558	564	554	549	545	544	543	545
52.5°	424	442	424	422	423	426	431	448	442	454	444
55°	321	324	320	339	330	334	328	316	309	305	295
57.5°	235	241	246	238	236	233	234	245	243	241	241
60°	189	192	192	191	191	188	185	184	185	186	193
62.5°	162	161	160	161	161	159	159	158	155	156	154
65°	135	133	132	133	131	132	131	131	130	131	129
67.5°	107	108	105	106	108	105	106	106	103	102	102
70°	84	83	83	83	82	82	82	81	80	79	79
72.5°	61	62	61	61	61	60	60	60	59	59	59
75°	43	43	42	41	41	41	41	41	40	41	40
77.5°	27	27	27	26	26	26	26	26	25	25	25
80°	15	14	14	14	14	14	13	14	14	14	13
82.5°	6	6	6	6	6	6	6	6	6	6	6
85°	2	2	2	2	2	2	2	2	2	2	2
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0





REPORT NUMBER: P395144

CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751
2.5°	1762	1759	1762	1766	1765	1745	1745	1745	1728	1741	1725
5°	1766	1763	1771	1771	1768	1742	1734	1729	1711	1721	1705
7.5°	1711	1705	1722	1725	1729	1719	1726	1729	1711	1722	1708
10°	1688	1675	1683	1689	1682	1668	1659	1663	1653	1678	1671
12.5°	1681	1675	1681	1678	1676	1655	1653	1665	1664	1689	1677
15°	1674	1673	1694	1697	1700	1689	1697	1708	1692	1704	1691
17.5°	1680	1669	1678	1678	1678	1660	1662	1669	1664	1680	1669
20°	1609	1596	1605	1603	1603	1585	1571	1575	1569	1596	1582
22.5°	1574	1565	1579	1579	1587	1574	1575	1579	1559	1562	1541
25°	1453	1436	1451	1449	1454	1447	1442	1470	1464	1482	1476
27.5°	1382	1378	1391	1386	1393	1378	1372	1380	1376	1390	1375
30°	1319	1308	1325	1320	1328	1313	1310	1323	1314	1328	1322
32.5°	1268	1262	1275	1272	1277	1261	1256	1265	1252	1265	1264
35°	1221	1211	1221	1209	1218	1202	1187	1196	1188	1201	1194
37.5°	1139	1136	1146	1136	1140	1132	1120	1125	1119	1136	1129
40°	1031	1024	1037	1034	1050	1037	1025	1036	1022	1034	1040
42.5°	905	905	918	914	924	915	923	929	922	929	921
45°	794	778	789	794	791	791	780	790	793	804	808
47.5°	674	676	681	671	677	660	662	658	652	644	631
50°	539	536	537	530	540	530	513	520	524	530	524
52.5°	437	421	419	413	416	413	398	399	400	407	418
55°	300	304	313	306	310	309	308	310	308	313	315
57.5°	238	238	241	238	240	239	233	227	230	234	231
60°	193	192	194	191	193	192	190	189	191	192	186
62.5°	154	154	156	154	156	155	152	154	152	154	153
65°	130	129	131	129	129	129	128	130	128	129	128
67.5°	104	102	103	102	103	103	103	103	103	103	104
70°	80	80	80	79	81	80	80	81	80	80	79
72.5°	59	59	60	58	59	59	57	58	59	60	59
75°	41	39	40	39	41	40	39	40	40	41	41
77.5°	25	24	25	24	25	25	26	26	25	26	25
80°	13	13	13	13	14	14	13	14	14	15	13
82.5°	6	6	6	6	6	6	7	6	6	7	6
85°	2	2	2	2	2	2	2	2	2	2	2
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P395144

CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751
2.5°	1738	1733	1719	1712	1729	1720	1739	1742	1733	1724	1740
5°	1720	1719	1703	1700	1724	1718	1734	1734	1731	1724	1741
7.5°	1723	1715	1701	1694	1706	1691	1696	1694	1690	1680	1692
10°	1685	1682	1667	1659	1679	1675	1688	1690	1686	1670	1682
12.5°	1693	1705	1694	1689	1701	1683	1684	1686	1686	1675	1685
15°	1704	1707	1691	1687	1698	1697	1706	1704	1701	1678	1682
17.5°	1669	1661	1647	1644	1653	1648	1654	1651	1655	1646	1657
20°	1612	1626	1617	1620	1628	1630	1639	1636	1641	1625	1634
22.5°	1547	1552	1539	1548	1561	1559	1573	1569	1569	1549	1555
25°	1488	1485	1476	1476	1476	1467	1475	1468	1471	1465	1469
27.5°	1389	1391	1379	1390	1394	1382	1403	1396	1401	1390	1404
30°	1330	1326	1313	1313	1319	1316	1326	1322	1324	1313	1312
32.5°	1269	1275	1258	1263	1269	1267	1277	1273	1281	1266	1269
35°	1204	1208	1196	1205	1207	1206	1223	1221	1234	1217	1217
37.5°	1138	1151	1137	1139	1143	1133	1138	1134	1148	1141	1141
40°	1039	1044	1028	1036	1039	1052	1073	1069	1069	1060	1048
42.5°	939	941	929	931	924	919	905	910	926	926	948
45°	803	774	749	759	749	748	759	759	767	761	783
47.5°	652	654	649	659	660	676	679	679	680	671	673
50°	533	548	548	550	562	557	563	559	583	569	563
52.5°	419	410	398	397	396	401	405	413	417	409	413
55°	303	310	306	319	323	331	334	329	328	315	315
57.5°	233	233	229	226	215	208	206	201	209	211	229
60°	181	180	178	179	178	178	181	179	183	180	181
62.5°	155	157	153	154	153	153	157	154	158	156	156
65°	130	130	128	130	128	131	130	128	132	130	130
67.5°	104	103	102	103	104	104	107	105	105	105	105
70°	80	81	80	81	79	80	81	80	82	81	82
72.5°	60	60	59	60	59	59	60	60	60	60	61
75°	42	42	40	41	41	41	41	41	41	42	43
77.5°	25	25	25	25	26	26	25	26	25	26	27
80°	13	14	13	14	13	13	14	13	14	14	14
82.5°	6	6	6	6	6	6	6	6	6	6	6
85°	2	1	2	1	1	1	1	1	1	1	1
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P395144

CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751
2.5°	1744	1760	1745	1749	1753	1766	1776	1766	1771	1772	1778
5°	1743	1759	1743	1744	1750	1758	1763	1754	1762	1767	1779
7.5°	1693	1707	1696	1708	1725	1744	1750	1729	1721	1714	1712
10°	1676	1692	1675	1676	1678	1682	1681	1668	1680	1689	1696
12.5°	1673	1679	1653	1648	1646	1650	1654	1645	1651	1657	1669
15°	1685	1704	1688	1700	1708	1719	1721	1701	1698	1689	1688
17.5°	1660	1682	1665	1682	1694	1701	1697	1680	1673	1665	1664
20°	1622	1647	1620	1617	1616	1629	1640	1628	1636	1638	1647
22.5°	1554	1571	1553	1561	1570	1584	1585	1569	1571	1565	1578
25°	1478	1500	1487	1498	1502	1513	1513	1490	1502	1502	1498
27.5°	1394	1423	1399	1401	1406	1413	1411	1404	1408	1411	1418
30°	1312	1327	1312	1316	1313	1333	1341	1324	1336	1340	1338
32.5°	1265	1280	1262	1264	1262	1273	1278	1268	1270	1278	1281
35°	1217	1224	1210	1215	1211	1215	1223	1219	1222	1223	1232
37.5°	1135	1148	1135	1141	1145	1151	1155	1144	1147	1152	1162
40°	1038	1060	1040	1054	1059	1068	1063	1057	1059	1050	1053
42.5°	943	962	944	942	953	970	965	952	969	964	965
45°	790	809	816	825	839	841	828	835	824	816	828
47.5°	673	673	668	670	678	704	709	696	686	694	709
50°	545	550	545	555	543	531	545	552	572	568	577
52.5°	421	423	423	426	426	422	421	421	438	442	439
55°	314	313	310	307	320	315	323	322	323	324	340
57.5°	231	236	236	237	237	239	246	246	250	252	255
60°	180	183	183	186	193	198	199	196	197	197	199
62.5°	158	161	158	161	161	162	161	161	162	162	164
65°	131	131	132	134	133	134	136	136	137	136	137
67.5°	106	107	107	108	109	109	109	109	110	112	111
70°	84	83	84	83	85	84	85	84	84	85	87
72.5°	60	61	62	62	62	63	64	64	63	65	66
75°	42	42	43	42	43	43	44	44	44	46	46
77.5°	27	27	27	27	27	27	28	29	28	30	30
80°	14	14	14	15	15	16	16	16	16	16	17
82.5°	6	6	6	7	7	7	7	8	7	8	8
85°	1	1	1	2	1	2	2	2	2	2	2
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P395144  
 CATALOG NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°	
0°	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	0°
2.5°	1801	1785	1784	1793	1803	1794	1788	1781	1761	1768	1757	2.5°
5°	1803	1782	1776	1790	1792	1785	1778	1767	1742	1745	1732	5°
7.5°	1729	1712	1710	1719	1730	1724	1729	1737	1715	1732	1719	7.5°
10°	1715	1701	1702	1719	1724	1708	1697	1697	1671	1683	1674	10°
12.5°	1697	1691	1705	1726	1730	1712	1713	1711	1690	1701	1689	12.5°
15°	1706	1689	1687	1706	1714	1705	1703	1706	1690	1702	1692	15°
17.5°	1684	1669	1666	1672	1666	1667	1666	1661	1645	1654	1645	17.5°
20°	1666	1653	1655	1654	1634	1625	1627	1637	1635	1639	1621	20°
22.5°	1609	1605	1605	1628	1622	1630	1639	1639	1624	1623	1610	22.5°
25°	1517	1505	1509	1521	1516	1511	1518	1525	1501	1497	1492	25°
27.5°	1426	1418	1425	1434	1435	1434	1442	1452	1439	1452	1444	27.5°
30°	1356	1341	1335	1342	1350	1344	1344	1357	1349	1364	1357	30°
32.5°	1300	1287	1290	1295	1297	1292	1296	1306	1291	1296	1286	32.5°
35°	1246	1240	1246	1252	1247	1238	1244	1248	1233	1242	1231	35°
37.5°	1173	1170	1166	1163	1164	1163	1180	1182	1175	1190	1180	37.5°
40°	1075	1073	1076	1087	1101	1096	1098	1091	1084	1085	1077	40°
42.5°	983	975	970	962	946	960	966	995	981	993	988	42.5°
45°	824	829	822	820	818	809	809	815	818	854	844	45°
47.5°	718	712	710	710	705	708	718	729	717	718	710	47.5°
50°	582	585	592	604	611	616	620	611	600	595	593	50°
52.5°	454	444	460	461	452	445	452	463	478	491	487	52.5°
55°	349	340	343	352	363	372	373	375	369	368	360	55°
57.5°	255	252	253	256	254	260	265	269	278	278	276	57.5°
60°	198	198	192	190	189	190	193	193	199	201	202	60°
62.5°	166	165	164	165	166	163	166	169	168	168	167	62.5°
65°	140	138	140	140	138	139	139	141	140	143	142	65°
67.5°	113	114	115	114	114	115	114	116	115	115	114	67.5°
70°	88	89	90	89	88	89	90	90	91	91	90	70°
72.5°	66	66	68	67	67	68	69	69	69	70	69	72.5°
75°	47	46	47	47	48	47	48	50	49	51	50	75°
77.5°	31	30	30	30	31	31	32	33	33	34	34	77.5°
80°	18	18	18	18	18	19	19	18	20	19	19	80°
82.5°	8	8	8	8	8	8	9	9	9	9	9	82.5°
85°	3	2	3	3	3	3	3	3	3	4	3	85°
87.5°	0	0	0	0	0	0	0	0	0	0	0	87.5°
90°	0	0	0	0	0	0	0	0	0	0	0	90°

NUMBER: P395144  
 NUMBER: TGS3S303[F;D;M]R[R;C][B;W]

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION:**

295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°		345°
1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	1751	0°	1751
1778	1757	1775	1756	1748	1747	1746	1770	1752	1768	1768	2.5°	1745
1751	1729	1758	1743	1746	1752	1759	1779	1757	1772	1771	5°	1739
1742	1715	1740	1718	1717	1722	1725	1744	1718	1740	1742	7.5°	1720
1692	1666	1681	1663	1658	1666	1674	1703	1688	1719	1726	10°	1716
1706	1681	1688	1666	1661	1666	1672	1697	1676	1697	1704	12.5°	1692
1709	1687	1710	1697	1697	1697	1689	1699	1666	1677	1677	15°	1659
1671	1664	1693	1673	1666	1661	1659	1685	1670	1690	1695	17.5°	1677
1633	1618	1632	1619	1620	1631	1643	1666	1648	1667	1675	20°	1668
1632	1614	1640	1624	1602	1604	1606	1621	1595	1620	1620	22.5°	1611
1522	1497	1521	1504	1496	1497	1502	1519	1505	1529	1525	25°	1518
1464	1443	1458	1441	1441	1437	1427	1442	1421	1435	1440	27.5°	1418
1372	1361	1383	1374	1367	1367	1364	1367	1346	1361	1362	30°	1350
1308	1293	1309	1294	1289	1291	1284	1303	1287	1306	1308	32.5°	1301
1241	1221	1236	1228	1223	1221	1234	1252	1241	1255	1260	35°	1244
1187	1172	1186	1176	1175	1167	1175	1190	1175	1190	1195	37.5°	1191
1086	1085	1097	1083	1073	1083	1081	1093	1083	1098	1113	40°	1111
993	992	998	998	984	984	983	988	965	974	976	42.5°	948
872	868	878	860	863	855	860	854	836	844	838	45°	839
714	700	723	729	730	731	731	730	726	734	740	47.5°	747
601	591	596	593	581	574	590	605	592	591	590	50°	582
490	479	466	453	455	466	467	464	457	468	472	52.5°	488
361	365	357	358	358	357	354	357	356	360	357	55°	348
276	267	267	267	270	270	271	269	264	257	253	57.5°	253
207	207	216	212	210	202	204	206	204	204	204	60°	204
168	167	170	168	168	169	167	169	166	166	170	62.5°	168
143	141	143	142	142	144	143	144	141	141	142	65°	142
117	116	117	116	115	115	117	115	115	116	115	67.5°	116
91	90	94	92	91	92	90	91	91	91	91	70°	90
69	69	69	69	69	68	69	70	69	69	69	72.5°	68
51	50	50	50	50	49	49	50	49	49	49	75°	49
34	33	34	33	33	33	32	32	32	32	32	77.5°	32
19	19	20	20	20	19	19	19	19	18	18	80°	18
9	9	9	9	9	9	8	9	9	8	8	82.5°	8
3	3	4	3	4	4	3	3	3	3	3	85°	3
0	0	1	0	1	0	1	1	0	0	0	87.5°	0
0	0	0	0	0	0	0	0	0	0	0	90°	0

'395144

TGS3S303[F;D;M]R[R;C][B;W]

**TION (continued):**

350°	355°	360°
1751	1751	1751
1747	1747	1758
1738	1730	1736
1711	1703	1708
1716	1710	1713
1691	1688	1705
1660	1654	1663
1668	1661	1680
1670	1672	1691
1608	1599	1606
1523	1517	1530
1412	1414	1421
1344	1337	1344
1299	1291	1298
1247	1240	1252
1199	1193	1208
1113	1092	1124
919	905	906
843	834	843
753	755	745
565	562	562
493	492	489
351	344	353
254	254	253
205	193	192
167	165	168
142	140	142
116	115	113
91	90	88
68	68	68
48	48	48
31	31	31
18	17	18
8	8	8
3	2	2
0	0	0
0	0	0

(END OF REPORT)