

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: P395150

Luminaire Tested: **TGS3S403[F;D;M]R[R;C][B;W]**

Test Date: 02/11/2020

Test Information

Test Method: LM-79-08
Report Number: P395150
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: TGS3S403[F;D;M]R[R;C][B;W]
Description: 4000K TRIPLE ROUND 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: 3435.2 lumens
Efficiency: N/A
Efficacy: 128.2 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

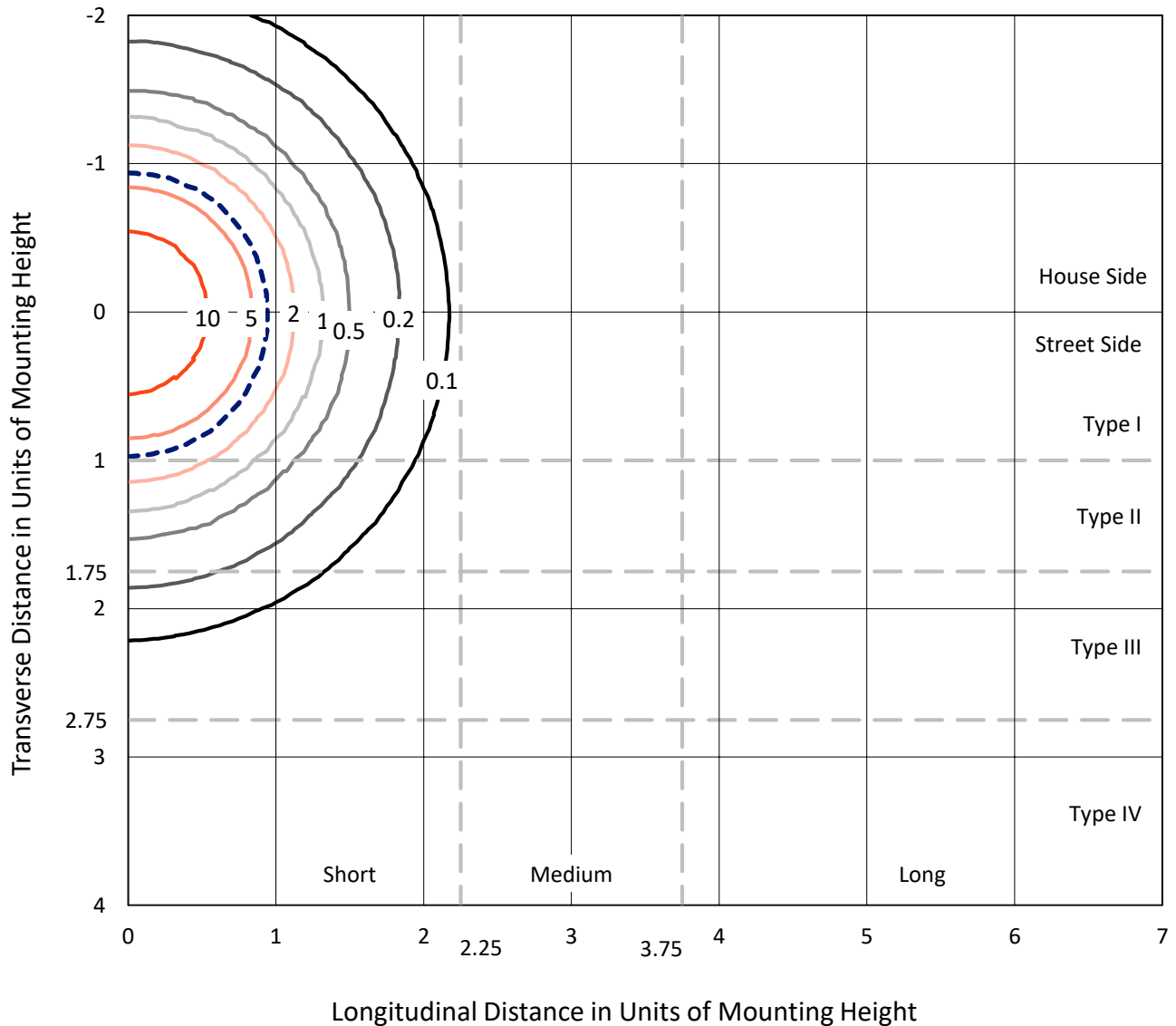
Input Watts (W): 26.8
Input Voltage (V): 120.0
Input Current (Ain): 0.223
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395150
 CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

Iso-Footcandle Lines of Horizontal Illumination

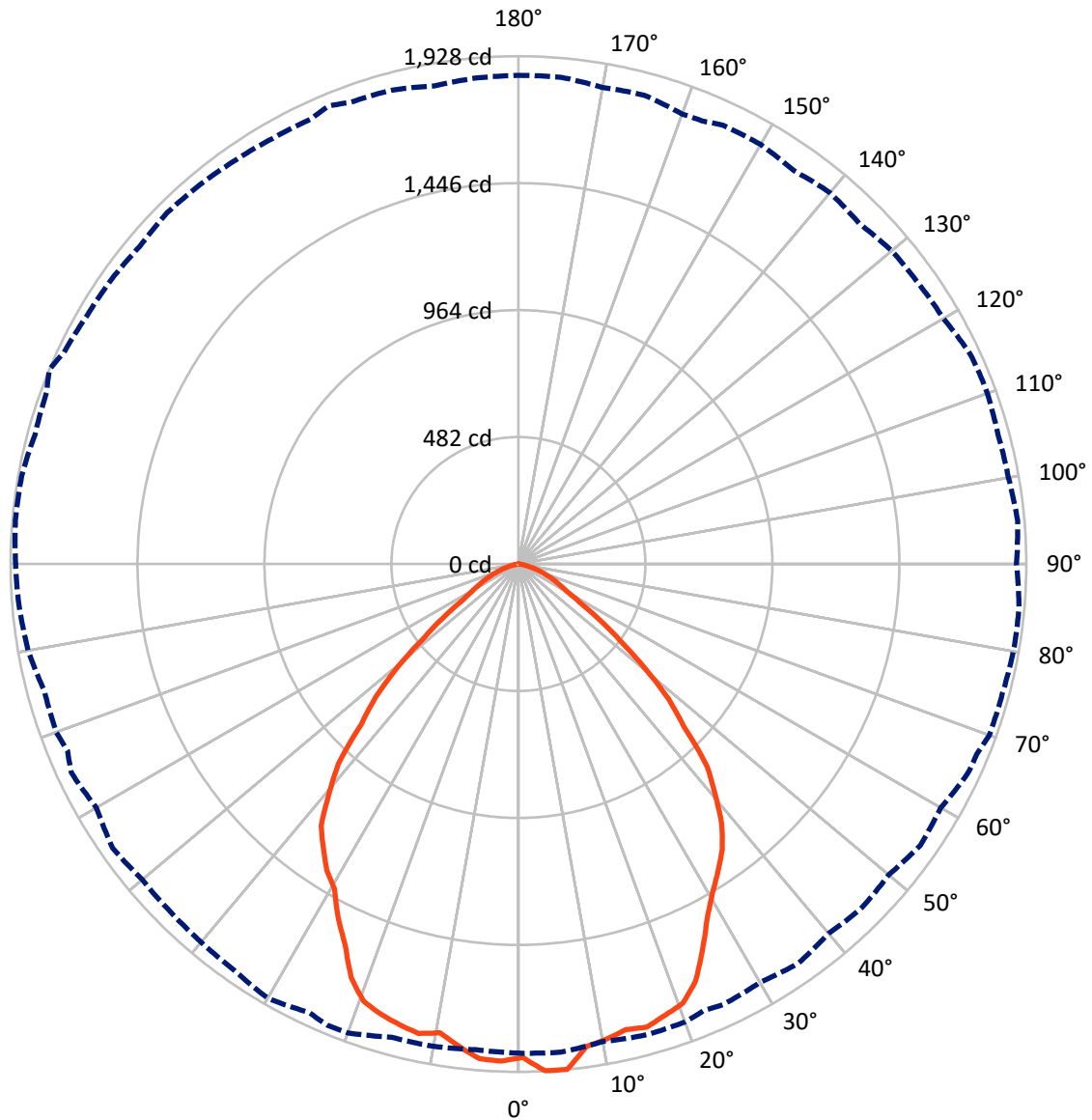
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P395150
CATALOG NUMBER: TGS3S403[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: P395150
 CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

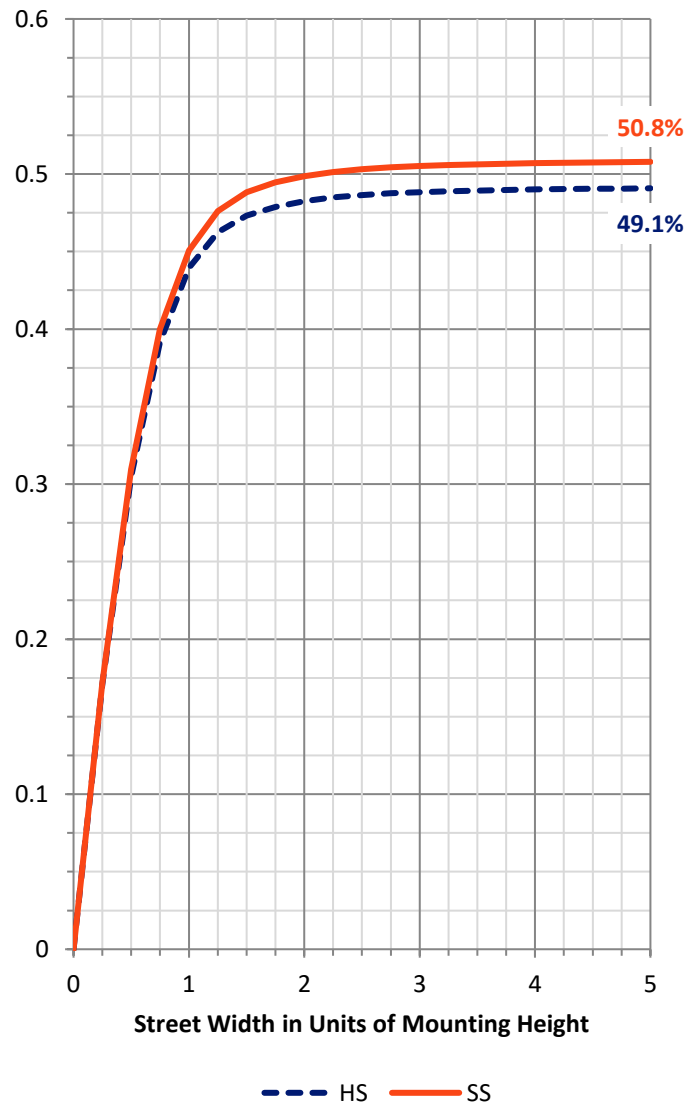
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1696.0	0.0	1696.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	1739.1	0.0	1739.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	3435.2	0.0	3435.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	5.1
10°-20°	507.4	14.8
20°-30°	734.4	21.4
30°-40°	813.4	23.7
40°-50°	672.2	19.6
50°-60°	330.9	9.6
60°-70°	143.7	4.2
70°-80°	52.3	1.5
80°-90°	4.9	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°	3435.2	100.0
0°-180°	3435.2	100.0



REPORT NUMBER: P395150

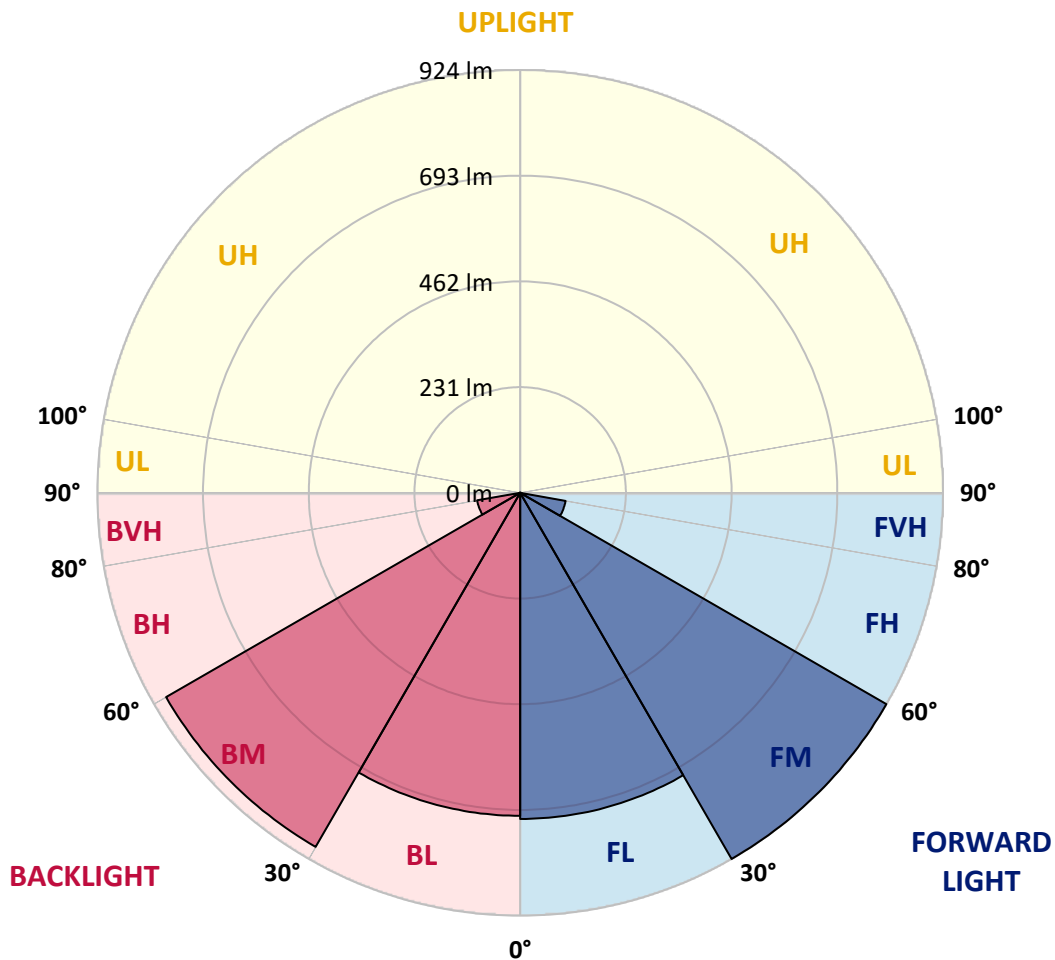
CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.3	20.7			
FM	(30°-60°)	923.5	26.9			
FH	(60°-80°)	100.6	2.9			G0/660
FVH	(80°-90°)	2.7	0.1			G0/10
BL	(0°-30°)	705.5	20.5	B2/1000		
BM	(30°-60°)	893.0	26.0	B1/1000		
BH	(60°-80°)	95.4	2.8	B0/110		G0/660
BVH	(80°-90°)	2.2	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: P395150

CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873
2.5°	1880	1887	1865	1868	1867	1852	1856	1853	1870	1850	1862
5°	1857	1860	1841	1852	1850	1836	1844	1834	1851	1831	1845
7.5°	1826	1824	1805	1819	1815	1806	1814	1809	1830	1811	1828
10°	1832	1830	1809	1822	1815	1801	1804	1792	1802	1776	1782
12.5°	1823	1830	1810	1817	1810	1799	1804	1796	1817	1802	1806
15°	1778	1779	1758	1774	1777	1771	1776	1786	1815	1799	1811
17.5°	1796	1804	1782	1810	1805	1795	1802	1795	1806	1779	1779
20°	1808	1814	1792	1805	1794	1780	1783	1770	1778	1753	1753
22.5°	1718	1716	1685	1695	1689	1681	1680	1670	1686	1671	1674
25°	1637	1635	1608	1628	1617	1602	1604	1590	1600	1581	1578
27.5°	1520	1522	1506	1527	1513	1508	1507	1519	1536	1516	1525
30°	1437	1438	1418	1433	1419	1412	1419	1415	1430	1418	1412
32.5°	1389	1391	1365	1383	1370	1364	1368	1363	1373	1360	1357
35°	1339	1340	1319	1339	1324	1317	1313	1311	1315	1297	1298
37.5°	1292	1289	1264	1269	1250	1245	1242	1242	1248	1232	1236
40°	1202	1190	1171	1169	1153	1153	1152	1147	1155	1137	1129
42.5°	969	981	988	1026	1045	1045	1049	1045	1043	1032	1030
45°	902	900	884	878	860	878	882	887	904	889	880
47.5°	796	791	778	782	763	757	759	739	751	755	736
50°	601	609	621	633	617	619	614	621	602	585	592
52.5°	523	507	490	496	472	468	475	467	453	443	445
55°	378	375	380	380	371	355	358	341	342	351	343
57.5°	270	268	258	259	259	263	264	259	260	257	256
60°	205	207	206	206	207	208	204	202	205	201	199
62.5°	180	178	176	176	175	175	176	174	176	172	172
65°	152	150	148	148	146	145	147	146	147	145	143
67.5°	120	120	119	120	117	116	117	116	117	116	114
70°	94	94	92	95	91	91	89	90	90	90	88
72.5°	72	72	69	71	69	68	67	66	66	65	64
75°	51	48	49	49	47	47	47	46	46	45	45
77.5°	33	31	31	32	30	30	30	30	30	29	29
80°	19	18	17	17	16	17	16	17	17	16	16
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: P395150

CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873
2.5°	1856	1881	1864	1887	1888	1898	1891	1902	1899	1880	1897
5°	1835	1862	1851	1882	1884	1902	1902	1908	1908	1891	1902
7.5°	1825	1854	1830	1852	1845	1857	1852	1860	1857	1836	1850
10°	1775	1799	1780	1804	1804	1815	1807	1830	1847	1836	1843
12.5°	1796	1816	1801	1825	1822	1829	1823	1825	1812	1793	1804
15°	1799	1805	1783	1811	1806	1814	1807	1813	1801	1789	1803
17.5°	1769	1791	1767	1789	1787	1792	1789	1801	1796	1788	1805
20°	1744	1758	1740	1764	1761	1763	1754	1756	1737	1724	1736
22.5°	1675	1702	1683	1698	1694	1694	1691	1703	1684	1671	1687
25°	1571	1589	1564	1593	1586	1590	1584	1583	1575	1555	1564
27.5°	1512	1526	1496	1512	1508	1505	1488	1496	1490	1479	1485
30°	1411	1426	1405	1424	1418	1421	1410	1429	1414	1406	1420
32.5°	1354	1372	1349	1371	1372	1367	1361	1375	1363	1351	1363
35°	1290	1305	1288	1306	1308	1310	1308	1317	1314	1302	1313
37.5°	1227	1245	1236	1247	1244	1245	1232	1235	1228	1212	1222
40°	1128	1132	1117	1126	1130	1129	1127	1141	1118	1107	1120
42.5°	1033	1031	1012	1024	1022	1007	982	969	958	954	971
45°	884	892	855	853	849	842	850	855	854	850	855
47.5°	733	719	721	734	741	747	741	745	732	719	735
50°	586	598	586	596	603	592	587	582	581	580	583
52.5°	454	473	454	452	453	456	461	479	473	486	475
55°	343	346	342	362	352	357	350	338	330	326	315
57.5°	251	258	263	254	252	249	250	262	260	258	258
60°	202	206	206	204	204	201	198	197	198	199	207
62.5°	174	172	171	172	172	170	170	169	166	167	165
65°	145	143	142	143	141	142	140	141	139	140	138
67.5°	114	115	112	113	115	112	113	113	110	109	109
70°	89	88	88	88	87	87	87	86	85	84	84
72.5°	65	66	65	65	65	64	64	64	63	63	63
75°	46	46	45	44	44	44	44	44	43	44	43
77.5°	29	29	29	28	28	28	28	28	27	27	27
80°	16	15	15	15	15	15	14	15	15	15	14
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: P395150

CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873
2.5°	1885	1882	1885	1889	1888	1867	1867	1867	1847	1862	1844
5°	1889	1886	1894	1894	1891	1863	1855	1850	1829	1840	1823
7.5°	1829	1823	1841	1844	1850	1838	1845	1850	1829	1841	1826
10°	1805	1791	1800	1806	1799	1784	1774	1778	1768	1794	1787
12.5°	1797	1791	1797	1794	1792	1770	1768	1780	1779	1806	1793
15°	1790	1789	1811	1814	1818	1806	1815	1826	1809	1822	1808
17.5°	1796	1785	1794	1794	1794	1775	1777	1785	1779	1796	1785
20°	1721	1707	1717	1714	1714	1695	1680	1685	1678	1707	1692
22.5°	1683	1674	1689	1689	1697	1683	1685	1689	1668	1671	1648
25°	1554	1535	1552	1549	1555	1547	1542	1572	1565	1584	1578
27.5°	1478	1474	1488	1482	1490	1474	1467	1476	1472	1486	1471
30°	1411	1399	1417	1412	1421	1404	1401	1415	1406	1421	1414
32.5°	1357	1349	1364	1361	1366	1348	1343	1352	1339	1352	1351
35°	1305	1295	1306	1293	1302	1285	1269	1279	1270	1284	1277
37.5°	1218	1215	1226	1215	1219	1211	1198	1203	1197	1215	1207
40°	1102	1095	1110	1105	1123	1110	1096	1107	1093	1105	1113
42.5°	968	968	982	978	988	979	987	993	986	993	985
45°	849	832	843	849	846	845	834	844	848	859	865
47.5°	721	723	728	718	724	706	708	704	697	689	675
50°	576	573	574	566	577	567	548	556	560	566	560
52.5°	467	450	448	442	445	442	426	427	428	436	447
55°	321	325	334	327	331	330	329	331	329	334	337
57.5°	255	255	258	255	257	256	249	243	246	250	247
60°	207	206	208	204	207	206	203	202	204	206	199
62.5°	165	165	167	165	167	166	163	165	163	165	164
65°	139	138	140	138	138	138	137	139	137	138	137
67.5°	111	109	110	109	110	110	110	110	110	110	111
70°	85	85	85	84	86	85	85	86	85	85	84
72.5°	63	63	64	62	63	63	61	62	63	64	63
75°	44	42	43	42	44	43	42	43	43	44	44
77.5°	27	26	27	26	27	27	28	28	27	28	27
80°	14	14	14	14	15	15	14	15	15	16	14
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: P395150

CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873
2.5°	1859	1854	1838	1830	1850	1839	1860	1863	1854	1843	1861
5°	1839	1838	1821	1818	1843	1837	1855	1855	1852	1843	1862
7.5°	1842	1834	1819	1811	1824	1808	1813	1811	1807	1796	1809
10°	1802	1799	1783	1774	1795	1791	1805	1807	1803	1786	1798
12.5°	1810	1823	1811	1806	1819	1800	1801	1803	1803	1791	1802
15°	1822	1825	1808	1804	1816	1814	1824	1822	1819	1794	1799
17.5°	1785	1776	1761	1758	1768	1762	1769	1766	1770	1760	1772
20°	1724	1739	1729	1733	1741	1743	1753	1750	1755	1738	1747
22.5°	1655	1660	1646	1656	1670	1667	1682	1678	1678	1657	1663
25°	1591	1588	1578	1578	1578	1568	1577	1570	1573	1566	1571
27.5°	1485	1488	1475	1486	1491	1478	1500	1493	1498	1486	1501
30°	1423	1418	1404	1404	1411	1408	1418	1414	1416	1405	1403
32.5°	1358	1364	1345	1350	1358	1356	1366	1362	1370	1353	1358
35°	1287	1292	1279	1288	1291	1290	1308	1305	1319	1301	1301
37.5°	1217	1231	1216	1218	1222	1212	1217	1213	1228	1220	1220
40°	1112	1117	1099	1107	1112	1125	1148	1144	1144	1134	1121
42.5°	1004	1006	994	996	988	983	968	973	990	990	1014
45°	858	827	801	811	801	800	811	811	820	814	837
47.5°	697	700	694	705	706	723	726	726	727	718	720
50°	570	586	586	588	601	595	602	597	624	608	602
52.5°	448	439	426	425	424	429	433	442	446	438	442
55°	324	331	327	341	345	354	357	351	350	336	337
57.5°	249	249	245	242	230	223	220	215	224	226	245
60°	194	193	191	192	191	191	194	192	196	193	194
62.5°	166	168	164	165	164	164	168	165	169	167	167
65°	139	139	137	139	137	140	139	137	142	139	139
67.5°	111	110	109	110	111	111	114	112	112	112	112
70°	85	86	85	86	84	85	86	85	87	86	87
72.5°	64	64	63	64	63	63	64	64	64	64	65
75°	45	45	43	44	44	44	44	44	44	45	46
77.5°	27	27	27	27	28	28	27	28	27	28	29
80°	14	15	14	15	14	14	15	14	15	15	15
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: P395150

CATALOG NUMBER: TGS3S403[F;D;M]R[R;C][B;W]

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873
2.5°	1866	1883	1867	1871	1875	1889	1900	1889	1894	1895	1902
5°	1865	1882	1864	1866	1872	1880	1886	1876	1885	1890	1903
7.5°	1810	1825	1813	1826	1844	1866	1872	1850	1840	1833	1831
10°	1792	1809	1791	1792	1794	1799	1797	1784	1796	1806	1813
12.5°	1789	1795	1768	1762	1760	1764	1769	1759	1766	1772	1785
15°	1802	1822	1805	1818	1826	1838	1840	1819	1816	1806	1805
17.5°	1775	1799	1780	1798	1811	1819	1815	1796	1789	1780	1779
20°	1735	1761	1732	1729	1728	1742	1754	1741	1750	1752	1761
22.5°	1662	1680	1661	1670	1679	1694	1695	1678	1680	1674	1688
25°	1580	1605	1590	1603	1607	1618	1619	1593	1607	1607	1603
27.5°	1491	1522	1496	1498	1504	1511	1509	1501	1506	1509	1516
30°	1403	1419	1403	1408	1404	1426	1434	1416	1429	1433	1431
32.5°	1352	1369	1349	1351	1349	1362	1367	1357	1359	1367	1370
35°	1301	1309	1294	1299	1295	1299	1308	1303	1307	1308	1317
37.5°	1214	1228	1214	1220	1225	1231	1235	1223	1227	1232	1243
40°	1111	1134	1113	1128	1133	1143	1137	1131	1133	1123	1127
42.5°	1008	1029	1010	1007	1019	1037	1032	1018	1036	1031	1032
45°	844	866	873	883	898	900	886	893	882	873	886
47.5°	720	720	714	717	725	753	758	744	734	742	758
50°	583	588	583	593	580	568	582	590	611	607	618
52.5°	450	453	453	456	456	451	450	450	468	473	470
55°	335	334	331	328	342	337	345	344	345	346	363
57.5°	247	252	252	253	253	256	263	263	267	269	273
60°	193	196	196	199	207	212	213	210	211	211	213
62.5°	169	172	169	172	173	174	173	172	174	174	176
65°	141	141	142	144	143	144	146	146	147	146	147
67.5°	113	114	114	115	116	116	116	116	117	119	118
70°	89	88	89	88	91	90	91	90	90	91	93
72.5°	64	65	66	66	66	67	68	68	67	69	70
75°	45	45	46	45	46	46	47	47	47	49	49
77.5°	29	29	29	29	29	29	30	31	30	32	32
80°	15	15	15	16	16	17	17	17	17	17	18
82.5°	6	6	6	7	7	7	7	8	7	8	9
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: P395150
 CATALOG NUMBER: TGS3S403[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°	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	0°
2.5°	1926	1909	1908	1918	1928	1919	1912	1905	1884	1891	1879	2.5°
5°	1928	1906	1900	1915	1917	1909	1902	1890	1863	1867	1853	5°
7.5°	1850	1831	1828	1838	1851	1843	1850	1858	1834	1853	1838	7.5°
10°	1834	1819	1820	1838	1843	1826	1814	1815	1787	1800	1790	10°
12.5°	1814	1808	1823	1845	1851	1830	1832	1829	1807	1819	1806	12.5°
15°	1824	1806	1804	1824	1833	1823	1821	1824	1807	1820	1809	15°
17.5°	1801	1785	1781	1788	1782	1783	1781	1776	1759	1769	1759	17.5°
20°	1781	1768	1770	1769	1747	1738	1740	1751	1748	1753	1734	20°
22.5°	1721	1716	1717	1741	1735	1743	1753	1753	1737	1736	1722	22.5°
25°	1623	1610	1614	1627	1622	1616	1624	1631	1606	1600	1595	25°
27.5°	1525	1516	1524	1533	1534	1533	1542	1553	1539	1553	1544	27.5°
30°	1450	1434	1428	1435	1444	1437	1437	1451	1443	1459	1451	30°
32.5°	1391	1377	1380	1385	1387	1382	1386	1397	1381	1386	1376	32.5°
35°	1332	1326	1332	1338	1333	1324	1330	1334	1318	1328	1316	35°
37.5°	1254	1251	1247	1244	1245	1244	1262	1264	1256	1272	1262	37.5°
40°	1150	1148	1151	1163	1178	1172	1175	1167	1160	1161	1152	40°
42.5°	1051	1043	1037	1029	1012	1027	1033	1064	1049	1062	1056	42.5°
45°	882	887	879	877	875	866	866	872	875	914	903	45°
47.5°	768	761	759	759	754	757	768	780	767	768	759	47.5°
50°	623	626	634	646	654	659	663	654	642	637	635	50°
52.5°	486	475	492	493	483	476	483	495	511	525	521	52.5°
55°	374	363	366	377	389	398	399	401	395	394	385	55°
57.5°	273	269	271	274	272	278	283	288	297	297	295	57.5°
60°	212	212	206	203	202	203	207	207	213	215	216	60°
62.5°	178	177	176	177	178	175	178	181	180	180	179	62.5°
65°	150	148	150	150	148	149	149	151	150	153	152	65°
67.5°	120	121	122	121	121	124	121	125	122	122	121	67.5°
70°	94	95	96	95	94	95	96	96	97	97	96	70°
72.5°	70	70	72	71	71	72	73	73	74	75	74	72.5°
75°	50	49	50	50	51	50	51	53	52	54	53	75°
77.5°	33	32	32	32	33	33	34	35	35	36	36	77.5°
80°	19	19	19	19	19	20	20	19	21	20	20	80°
82.5°	8	9	9	9	9	9	10	10	10	10	10	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: P395150
 NUMBER: TGS3S403[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°
1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	1873	0°	1873
1902	1879	1899	1878	1870	1869	1868	1893	1874	1891	1891	2.5°	1867
1873	1850	1880	1864	1868	1874	1882	1903	1879	1895	1894	5°	1860
1863	1834	1861	1837	1836	1841	1844	1866	1837	1861	1863	7.5°	1839
1809	1781	1797	1778	1773	1782	1790	1821	1805	1838	1845	10°	1835
1824	1797	1805	1781	1776	1781	1788	1814	1792	1815	1822	12.5°	1809
1827	1804	1828	1814	1815	1814	1806	1817	1781	1793	1793	15°	1774
1787	1779	1810	1789	1781	1776	1774	1802	1786	1807	1812	17.5°	1793
1746	1730	1745	1731	1732	1744	1757	1782	1762	1783	1791	20°	1784
1745	1726	1754	1737	1713	1715	1718	1734	1706	1733	1732	22.5°	1723
1628	1600	1627	1609	1599	1600	1607	1625	1610	1636	1631	25°	1624
1565	1543	1559	1541	1541	1537	1526	1542	1520	1534	1540	27.5°	1516
1467	1456	1479	1470	1462	1462	1459	1462	1440	1456	1457	30°	1444
1399	1383	1400	1384	1379	1381	1374	1394	1377	1397	1399	32.5°	1392
1327	1305	1321	1313	1308	1306	1319	1338	1327	1342	1347	35°	1330
1269	1253	1268	1258	1256	1248	1257	1272	1257	1272	1278	37.5°	1274
1162	1161	1173	1158	1148	1159	1156	1169	1158	1174	1190	40°	1188
1062	1061	1067	1067	1052	1052	1051	1056	1032	1041	1044	42.5°	1014
933	928	939	920	923	915	920	914	894	903	897	45°	898
763	749	773	780	781	782	782	781	776	785	791	47.5°	799
643	633	638	635	622	613	631	647	634	633	631	50°	623
524	512	498	484	487	498	499	496	489	500	505	52.5°	522
387	391	382	383	383	382	379	382	381	385	382	55°	373
295	285	285	285	289	289	290	288	282	275	271	57.5°	271
221	222	231	227	225	216	218	220	218	218	218	60°	218
180	179	182	180	180	181	179	181	178	178	182	62.5°	180
153	151	153	152	152	154	153	154	151	151	152	65°	152
126	125	126	125	124	124	126	124	122	125	124	67.5°	125
97	96	100	98	97	98	96	97	97	97	97	70°	96
74	73	74	74	74	72	74	75	73	73	73	72.5°	72
54	53	53	53	53	52	52	53	52	52	52	75°	52
36	35	36	35	35	35	34	34	34	34	34	77.5°	34
20	20	21	21	21	20	20	20	20	19	19	80°	19
10	10	10	10	10	10	9	10	10	9	9	82.5°	9
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



'395150
TGS3S403[F;D;M]R[R;C][B;W]

TION (continued):

350°	355°	360°
1873	1873	1873
1869	1869	1880
1859	1851	1857
1829	1821	1826
1835	1828	1832
1808	1805	1823
1775	1769	1778
1784	1776	1796
1786	1788	1808
1720	1710	1718
1629	1623	1637
1510	1512	1520
1437	1430	1437
1390	1381	1389
1333	1326	1339
1282	1276	1292
1191	1168	1202
983	968	969
902	892	902
805	807	796
604	601	601
527	526	523
376	367	378
272	272	270
219	207	205
179	177	180
152	150	152
125	122	120
97	96	94
72	72	72
51	51	51
33	33	33
19	18	19
9	9	8
3	2	2
0	0	0
0	0	0

(END OF REPORT)