

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: STREETWORKS

Report Number: P14234

Luminaire Tested: **CRTK-X-A12-E-120-5-SR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14234
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-X-A12-E-120-5-SR
Description: STREETWORKS CARETAKER, TYPE 5, 12 LED WITH SMALL REFRACTOR
Light Source: [12]4000K LEDS
Ballast/Driver: [1]ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6630 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.29')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

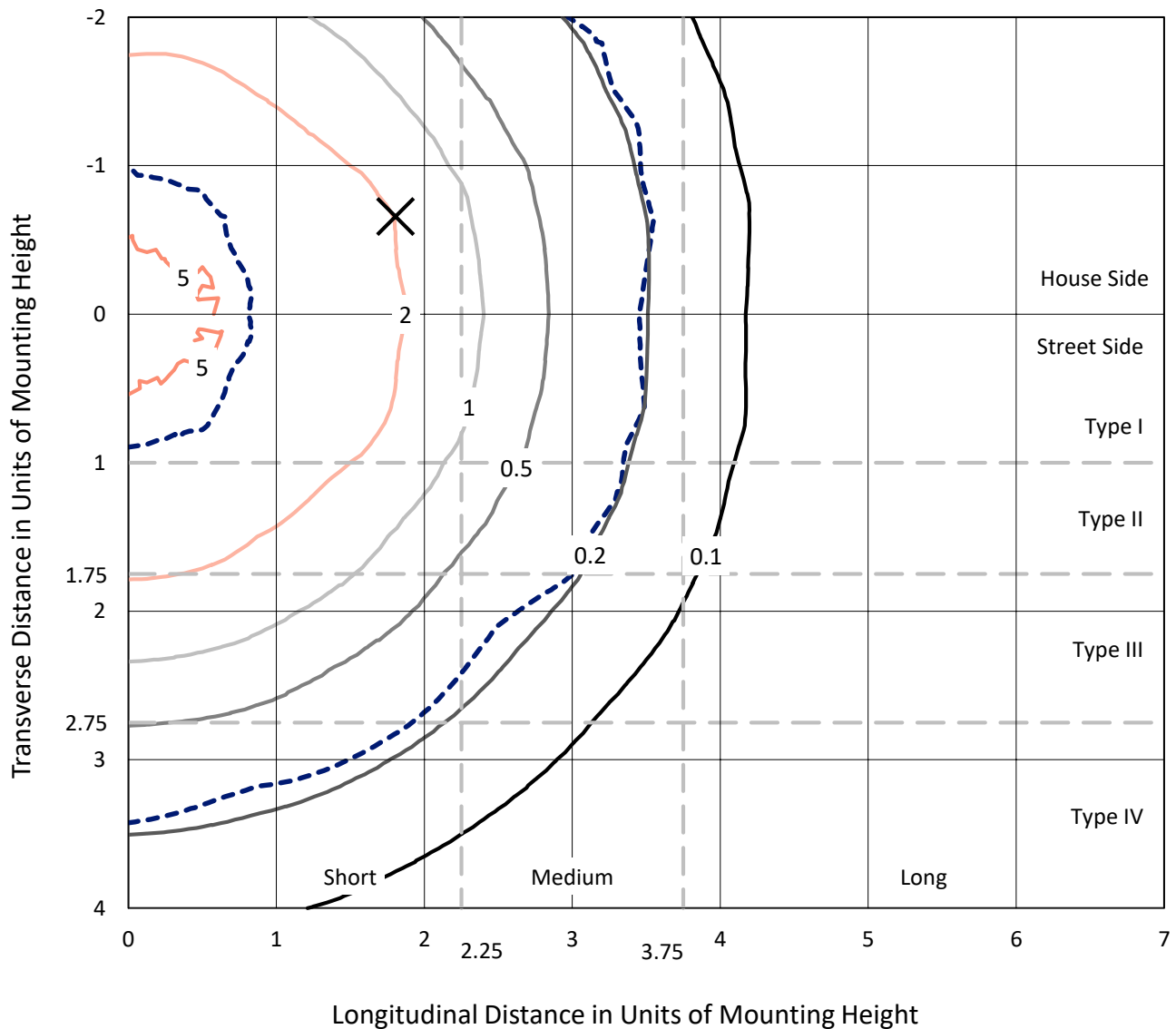


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

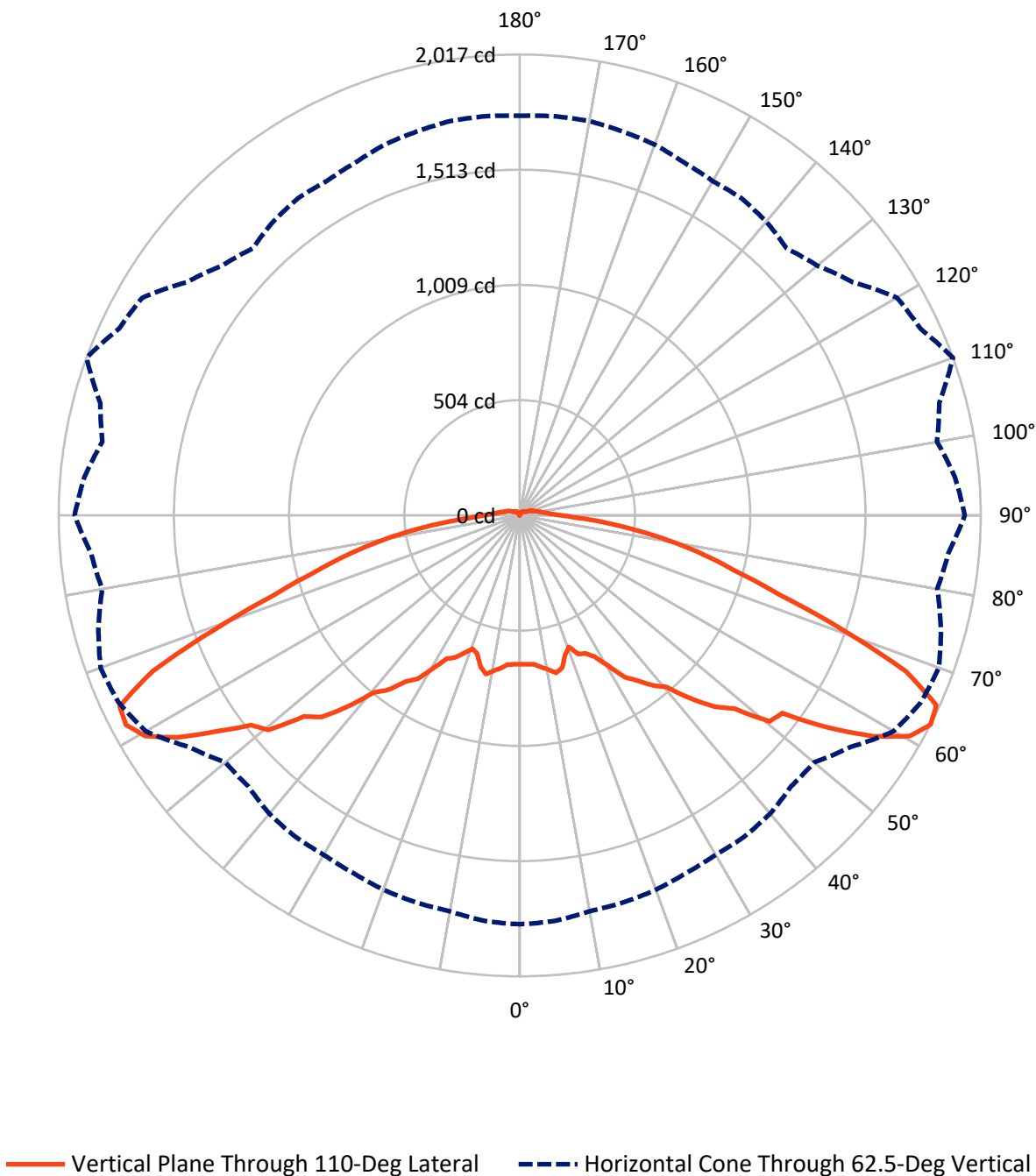


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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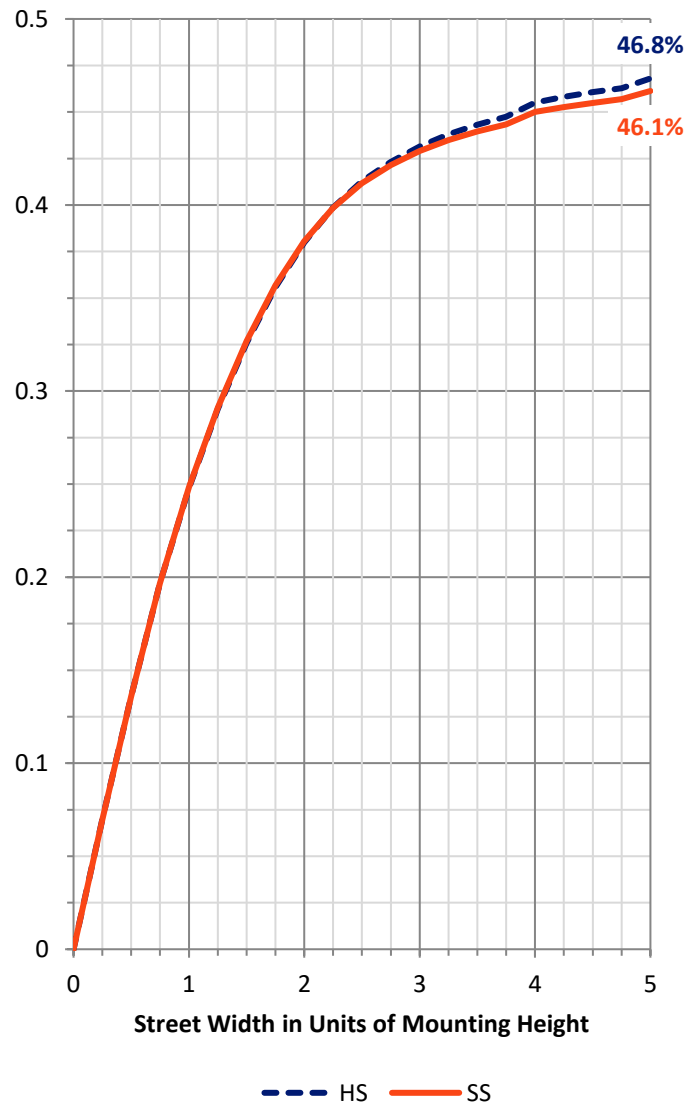
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3193.5	149.4	3342.9
	% Fixture	48.2	2.3	50.4
Street Side	Lumens	3143.8	143.2	3287.0
	% Fixture	47.4	2.2	49.6
Total	Lumens	6337.4	292.6	6630.0
	% Fixture	95.6	4.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.0
10°-20°	188.5	2.8
20°-30°	318.6	4.8
30°-40°	539.3	8.1
40°-50°	868.1	13.1
50°-60°	1281.3	19.3
60°-70°	1679.8	25.3
70°-80°	1007.7	15.2
80°-90°	390.5	5.9
90°-100°	123.2	1.9
100°-110°	70.4	1.1
110°-120°	41.9	0.6
120°-130°	23.0	0.3
130°-140°	16.4	0.2
140°-150°	10.8	0.2
150°-160°	4.9	0.1
160°-170°	1.7	0.0
170°-180°	0.2	0.0
0°-90°	6337.4	95.6
0°-180°	6630.0	100.0

Coefficient of Utilization



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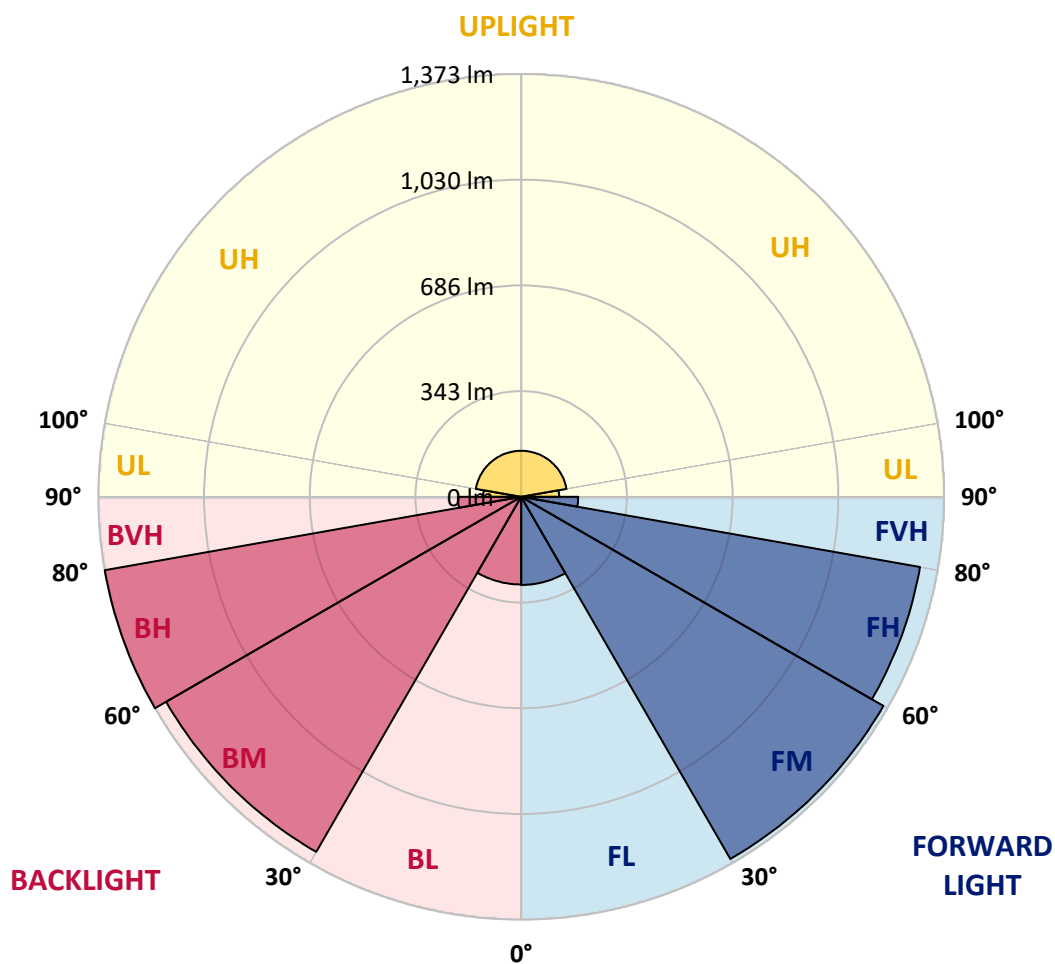
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.1	4.3			
FM	(30°-60°)	1357.7	20.5			
FH	(60°-80°)	1314.8	19.8			G1/1800
FVH	(80°-90°)	185.2	2.8			G2/225
BL	(0°-30°)	284.6	4.3	B1/500		
BM	(30°-60°)	1330.9	20.1	B2/2500		
BH	(60°-80°)	1372.7	20.7	B3/2500		G1/1800
BVH	(80°-90°)	205.3	3.1			G2/225
UL	(90°-100°)	123.2	1.9		U3/500	
UH	(100°-180°)	149.4	2.3		U3/500	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	651	651	651	651	651	651	651	651	651	651	651
2.5°	650	650	650	650	651	651	651	650	651	650	651
5°	652	654	656	654	654	654	655	654	654	655	654
7.5°	672	674	674	674	673	675	675	673	673	673	674
10°	689	689	689	688	689	689	689	690	690	689	688
12.5°	708	709	710	709	711	712	711	710	710	710	711
15°	664	666	663	660	663	673	675	675	673	671	673
17.5°	637	633	629	619	621	629	634	634	630	624	625
20°	633	630	624	624	625	629	638	634	624	620	621
22.5°	624	628	661	683	668	632	626	629	655	675	667
25°	693	693	685	652	682	694	690	690	692	664	680
27.5°	747	725	696	699	696	720	752	745	701	701	706
30°	728	751	755	754	756	750	727	749	758	757	766
32.5°	761	767	814	821	818	764	753	762	813	828	836
35°	841	842	839	859	836	834	831	830	832	870	850
37.5°	923	930	883	840	876	923	914	916	895	853	909
40°	1003	948	939	933	938	941	1001	951	936	957	981
42.5°	951	1006	1047	1046	1048	1013	940	988	1036	1049	1099
45°	1097	1098	1091	1122	1090	1084	1067	1062	1068	1138	1135
47.5°	1262	1215	1138	1096	1110	1174	1208	1192	1108	1081	1166
50°	1161	1194	1217	1238	1214	1166	1108	1151	1182	1227	1260
52.5°	1238	1219	1172	1154	1161	1184	1154	1154	1101	1104	1172
55°	1462	1435	1386	1356	1363	1377	1375	1364	1289	1291	1348
57.5°	1572	1577	1578	1567	1549	1520	1489	1505	1490	1504	1532
60°	1683	1685	1688	1703	1684	1647	1600	1621	1628	1630	1640
62.5°	1789	1781	1759	1753	1743	1726	1715	1715	1704	1678	1681
65°	1803	1782	1752	1736	1738	1720	1707	1713	1721	1693	1671
67.5°	1584	1569	1572	1580	1572	1537	1519	1535	1567	1569	1536
70°	1289	1278	1285	1294	1300	1272	1257	1270	1296	1290	1261
72.5°	1091	1071	1044	1033	1049	1060	1063	1065	1047	1030	1022
75°	897	890	886	883	887	878	874	873	881	881	870
77.5°	745	746	742	736	740	724	723	724	727	729	730
80°	604	606	603	601	599	582	574	573	581	588	582
82.5°	467	463	453	447	442	441	443	442	439	440	443
85°	323	319	321	314	312	311	309	311	315	313	314
87.5°	213	216	214	210	209	206	205	208	210	210	216
90°	162	161	157	156	157	156	156	155	156	156	160
92.5°	121	122	119	119	121	123	122	120	123	124	125
95°	102	102	101	102	102	102	100	100	102	102	105
97.5°	88	89	87	91	90	88	87	86	90	89	91
100°	80	81	79	80	80	79	79	79	80	80	83
102.5°	68	67	68	66	67	66	66	68	67	69	70
105°	57	58	58	60	59	60	58	59	61	62	63
107.5°	53	51	54	54	55	56	54	54	55	55	58
110°	47	48	50	51	51	53	51	50	51	52	54



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	43	44	43	45	48	46	46	47	48	48	50
115°	35	34	36	36	37	37	36	37	38	38	42
117.5°	28	28	30	30	30	30	30	30	30	31	32
120°	25	27	27	27	27	26	28	29	30	30	29
122.5°	25	24	26	25	24	27	26	26	27	28	28
125°	22	22	23	23	24	23	23	23	24	24	27
127.5°	23	23	23	24	24	24	25	24	26	27	28
130°	22	23	23	23	22	23	24	22	24	24	26
132.5°	24	25	23	23	22	23	23	23	25	24	25
135°	23	23	22	22	24	23	24	23	24	24	23
137.5°	19	21	21	20	20	19	20	22	22	20	20
140°	22	20	21	21	21	23	21	21	21	22	22
142.5°	20	20	20	21	20	20	21	21	22	20	21
145°	19	19	18	18	17	17	18	18	18	18	18
147.5°	20	17	20	17	18	17	19	18	19	18	20
150°	15	16	16	15	14	15	15	16	16	16	16
152.5°	14	14	13	13	13	13	12	14	15	15	15
155°	11	12	12	12	12	12	11	12	12	12	11
157.5°	11	11	10	10	9	10	11	10	12	10	10
160°	9	9	9	8	9	8	9	8	9	9	9
162.5°	9	7	9	8	8	7	7	6	6	6	6
165°	9	8	8	7	7	8	6	6	6	6	6
167.5°	7	8	7	8	8	7	6	6	8	7	7
170°	4	5	5	4	5	6	4	5	7	4	4
172.5°	3	3	4	4	3	3	4	2	3	4	3
175°	1	3	3	3	2	3	2	2	4	3	3
177.5°	1	0	0	0	1	1	2	1	0	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	651	651	651	651	651	651	651	651	651	651	651
2.5°	651	651	651	652	650	651	651	652	652	652	653
5°	654	654	655	654	654	654	653	654	652	652	653
7.5°	673	675	673	673	674	672	673	675	671	672	670
10°	689	689	690	689	690	691	689	689	687	687	686
12.5°	709	710	712	710	712	710	711	708	708	709	706
15°	676	683	685	683	683	686	691	697	697	693	693
17.5°	629	629	629	633	635	636	632	630	630	637	645
20°	622	642	637	619	623	624	632	649	640	621	615
22.5°	632	621	624	649	675	675	646	629	635	663	671
25°	691	689	689	684	668	677	693	696	697	687	669
27.5°	734	763	756	703	702	720	773	775	781	735	695
30°	775	784	781	768	765	773	784	778	785	770	757
32.5°	822	816	816	843	837	835	803	788	807	824	827
35°	866	888	886	883	917	859	860	879	869	852	905
37.5°	978	971	975	956	889	914	952	968	958	923	879
40°	1048	1071	1032	1004	989	963	991	1067	1015	960	979
42.5°	1130	1046	1101	1126	1094	1072	1077	1035	1082	1065	1073
45°	1192	1216	1193	1236	1204	1146	1133	1177	1144	1134	1196
47.5°	1308	1435	1369	1290	1144	1172	1265	1337	1298	1176	1123
50°	1293	1369	1387	1445	1374	1277	1256	1273	1270	1284	1350
52.5°	1266	1385	1400	1490	1261	1195	1242	1264	1270	1194	1225
55°	1448	1585	1601	1626	1510	1424	1449	1521	1477	1397	1445
57.5°	1596	1683	1738	1783	1749	1667	1691	1711	1694	1664	1770
60°	1695	1789	1842	1901	1894	1793	1815	1813	1850	1794	1899
62.5°	1767	1889	1936	1951	1908	1855	1883	1947	1912	1854	1900
65°	1733	1829	1864	1939	1891	1874	1868	1969	1905	1885	1911
67.5°	1540	1606	1626	1743	1709	1722	1699	1750	1722	1743	1761
70°	1274	1336	1328	1422	1399	1428	1412	1433	1424	1445	1457
72.5°	1052	1106	1101	1132	1111	1141	1126	1131	1142	1167	1164
75°	892	922	907	932	911	934	898	881	914	953	944
77.5°	749	768	770	778	751	771	733	728	748	792	782
80°	590	608	628	628	609	611	585	589	591	612	626
82.5°	450	463	473	475	456	449	441	453	450	460	473
85°	316	322	328	332	326	320	318	322	322	330	338
87.5°	220	218	223	222	217	210	212	208	216	219	226
90°	163	166	167	162	157	154	156	155	155	159	164
92.5°	129	130	132	130	123	121	118	120	120	124	126
95°	109	111	113	111	107	101	101	98	101	104	109
97.5°	92	96	96	96	92	89	89	86	87	91	95
100°	85	85	87	86	83	81	81	78	80	84	85
102.5°	72	70	73	72	71	70	69	67	70	72	75
105°	64	63	65	66	63	62	60	60	62	66	67
107.5°	59	59	58	60	56	56	53	53	55	58	59
110°	55	55	56	54	53	54	52	53	55	56	56



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	51	53	53	52	51	53	50	49	52	55	53
115°	43	44	45	44	43	42	41	41	43	44	45
117.5°	34	35	36	35	34	33	33	34	33	35	36
120°	30	31	32	33	30	31	31	29	29	33	30
122.5°	28	29	31	30	27	27	27	28	27	27	29
125°	28	27	29	27	27	26	25	25	26	26	27
127.5°	28	27	29	26	26	25	28	27	26	27	27
130°	25	25	25	25	23	24	24	24	25	23	26
132.5°	23	24	24	23	23	23	23	23	23	24	24
135°	23	24	23	23	23	23	23	23	23	24	23
137.5°	21	19	20	20	20	20	20	21	20	21	21
140°	22	22	22	22	21	22	22	21	21	21	21
142.5°	20	21	19	20	21	20	19	19	20	20	20
145°	18	17	17	17	19	18	18	17	18	18	18
147.5°	19	18	18	18	18	17	18	20	19	19	18
150°	16	15	15	15	15	14	15	14	14	15	15
152.5°	13	13	13	13	12	12	13	12	13	14	13
155°	12	12	11	9	12	10	11	9	11	11	10
157.5°	9	8	9	8	8	8	8	9	9	7	8
160°	7	8	8	8	7	8	7	6	8	7	8
162.5°	7	7	6	7	5	5	6	5	6	6	6
165°	5	5	6	6	5	5	5	5	5	6	5
167.5°	6	6	6	6	7	5	6	5	5	6	5
170°	5	5	4	4	3	4	3	3	5	4	3
172.5°	2	3	4	3	2	3	2	2	3	3	3
175°	4	3	3	2	2	3	3	2	2	3	2
177.5°	0	0	1	0	2	1	0	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	651	651	651	651	651	651	651	651	651	651	651
2.5°	652	652	653	652	650	652	652	651	651	651	651
5°	654	654	653	652	653	651	651	651	651	651	652
7.5°	670	671	674	668	669	668	666	670	667	668	668
10°	686	687	684	683	684	682	683	681	681	683	680
12.5°	707	704	702	703	702	701	700	700	699	700	708
15°	693	697	696	699	698	693	691	696	697	695	689
17.5°	642	631	625	630	640	645	636	626	626	631	639
20°	614	628	646	634	612	609	614	631	645	629	608
22.5°	659	628	611	624	649	658	655	630	613	628	651
25°	669	673	674	672	671	672	669	669	668	666	672
27.5°	700	737	757	742	696	684	693	727	736	728	694
30°	763	769	779	759	749	739	731	730	743	731	729
32.5°	844	810	796	828	815	798	796	753	719	753	790
35°	887	866	870	857	833	860	813	795	790	790	814
37.5°	944	954	945	938	903	827	868	881	875	877	859
40°	987	1001	1050	1031	949	920	905	937	966	938	882
42.5°	1094	1094	1046	1096	1096	1011	996	985	922	981	990
45°	1193	1175	1188	1151	1137	1133	1069	999	1004	1020	1075
47.5°	1264	1337	1397	1322	1175	1038	1094	1149	1150	1162	1093
50°	1417	1409	1408	1344	1267	1224	1195	1164	1136	1141	1180
52.5°	1438	1412	1379	1272	1183	1102	1081	1100	1106	1132	1133
55°	1639	1612	1554	1412	1310	1232	1220	1272	1298	1294	1272
57.5°	1823	1741	1683	1581	1497	1424	1429	1472	1468	1479	1460
60°	1961	1832	1789	1685	1653	1613	1590	1576	1575	1603	1640
62.5°	2017	1934	1906	1779	1700	1652	1678	1693	1689	1703	1727
65°	2003	1907	1878	1775	1722	1702	1722	1728	1728	1736	1754
67.5°	1823	1698	1693	1631	1624	1627	1639	1635	1633	1643	1662
70°	1498	1408	1413	1360	1370	1381	1400	1403	1415	1416	1418
72.5°	1190	1152	1156	1105	1112	1133	1139	1129	1125	1135	1158
75°	976	957	984	952	952	956	959	968	975	979	985
77.5°	822	820	836	820	815	818	817	825	831	841	852
80°	658	663	653	643	635	643	647	654	663	661	665
82.5°	499	507	501	493	490	494	496	498	504	506	514
85°	359	360	355	351	357	359	363	369	370	371	372
87.5°	236	239	238	242	242	238	239	239	238	245	249
90°	169	174	177	174	172	171	170	172	171	171	171
92.5°	134	137	139	137	135	133	133	133	132	131	131
95°	115	118	118	115	114	110	109	109	107	108	108
97.5°	99	103	102	99	97	93	93	93	94	94	94
100°	88	91	90	89	87	87	86	84	85	86	87
102.5°	77	78	79	81	77	77	79	76	77	75	76
105°	70	71	70	72	70	70	71	70	70	70	71
107.5°	61	63	65	64	63	63	63	63	63	62	64
110°	57	60	60	59	60	58	57	57	58	59	60



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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	55	56	57	57	57	55	55	56	56	57	55	0°
115°	47	49	48	50	45	50	47	45	49	47	46	2.5°
117.5°	38	40	39	38	37	36	37	36	35	35	35	5°
120°	34	34	35	33	32	32	31	32	29	27	27	7.5°
122.5°	31	31	31	29	30	30	28	29	27	25	23	10°
125°	27	29	27	28	27	27	26	25	25	24	21	12.5°
127.5°	28	29	30	29	29	28	28	26	25	24	22	15°
130°	27	28	27	28	28	26	25	23	24	22	21	17.5°
132.5°	25	26	26	25	25	25	24	23	21	20	18	20°
135°	24	23	24	23	24	24	22	21	21	19	16	22.5°
137.5°	21	22	21	21	22	20	22	18	18	15	14	25°
140°	21	22	23	21	21	20	21	18	18	15	15	27.5°
142.5°	21	20	19	20	20	19	19	18	17	14	13	30°
145°	17	18	17	16	16	16	16	14	13	13	11	32.5°
147.5°	17	18	17	18	17	16	16	15	13	11	14	35°
150°	14	15	16	15	14	14	13	13	10	10	9	37.5°
152.5°	13	12	14	13	14	13	12	11	10	9	7	40°
155°	12	11	11	12	10	11	11	10	8	9	8	42.5°
157.5°	9	9	8	9	9	10	9	7	7	6	6	45°
160°	7	7	8	8	8	8	6	6	6	5	8	47.5°
162.5°	6	6	5	5	6	5	4	5	4	5	4	50°
165°	6	6	5	5	7	6	5	5	4	5	5	52.5°
167.5°	6	6	5	7	4	6	5	4	4	5	5	55°
170°	4	4	4	3	2	3	3	3	3	3	3	57.5°
172.5°	1	3	2	2	2	3	1	2	2	2	2	60°
175°	3	3	2	3	3	2	3	3	3	3	2	62.5°
177.5°	1	1	1	2	0	1	1	0	1	1	1	65°
180°	1	1	1	1	1	1	1	1	1	1	1	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°



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CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
651	651	651	651
653	651	651	651
651	653	651	651
667	668	667	667
680	682	679	680
698	699	698	698
685	687	691	691
645	635	625	621
605	611	630	643
658	654	629	611
675	671	669	666
677	691	727	734
732	731	732	753
789	794	760	726
855	817	799	794
808	868	886	872
885	887	941	962
979	983	981	935
1111	1077	1010	1001
1013	1103	1162	1162
1215	1218	1190	1173
1127	1141	1156	1159
1272	1295	1327	1340
1480	1515	1523	1516
1673	1673	1640	1617
1739	1752	1753	1749
1770	1798	1800	1791
1671	1687	1694	1710
1415	1429	1436	1448
1167	1170	1163	1164
986	997	1002	1011
860	866	864	864
671	683	691	694
521	533	536	540
377	386	393	396
250	255	257	254
174	178	178	181
133	135	135	134
109	108	107	106
98	97	96	97
87	88	87	87
78	77	79	79
72	71	72	72
63	61	59	61
58	52	49	47

CANDELA DISTRIBUTION:

	165°
112.5°	54
115°	43
117.5°	31
120°	25
122.5°	20
125°	19
127.5°	18
130°	18
132.5°	16
135°	15
137.5°	11
140°	12
142.5°	12
145°	9
147.5°	11
150°	8
152.5°	8
155°	7
157.5°	5
160°	6
162.5°	3
165°	4
167.5°	5
170°	3
172.5°	2
175°	3
177.5°	1
180°	1



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TION (continued):

170°	175°	180°
48	43	43
36	34	33
26	23	22
24	18	19
18	14	14
14	12	12
16	13	14
14	11	10
13	11	9
12	10	9
10	7	8
10	10	8
11	10	9
9	8	9
9	10	8
8	7	6
8	6	7
6	6	6
6	6	5
5	4	5
4	3	4
5	3	3
4	5	3
3	3	3
2	2	2
2	2	2
0	0	1
1	1	1

(END OF REPORT)