

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: P14230

Luminaire Tested: **CRTK-X-A08-E-120-5 +RMARROA5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14230
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK-X-A08-E-120-5 +RMARROA5
Description: STREETWORKS CARETAKER, TYPE 5, 8 LED WITH ANSI REFRACTOR
Light Source: [8] 4000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4138 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 0.54')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 49
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



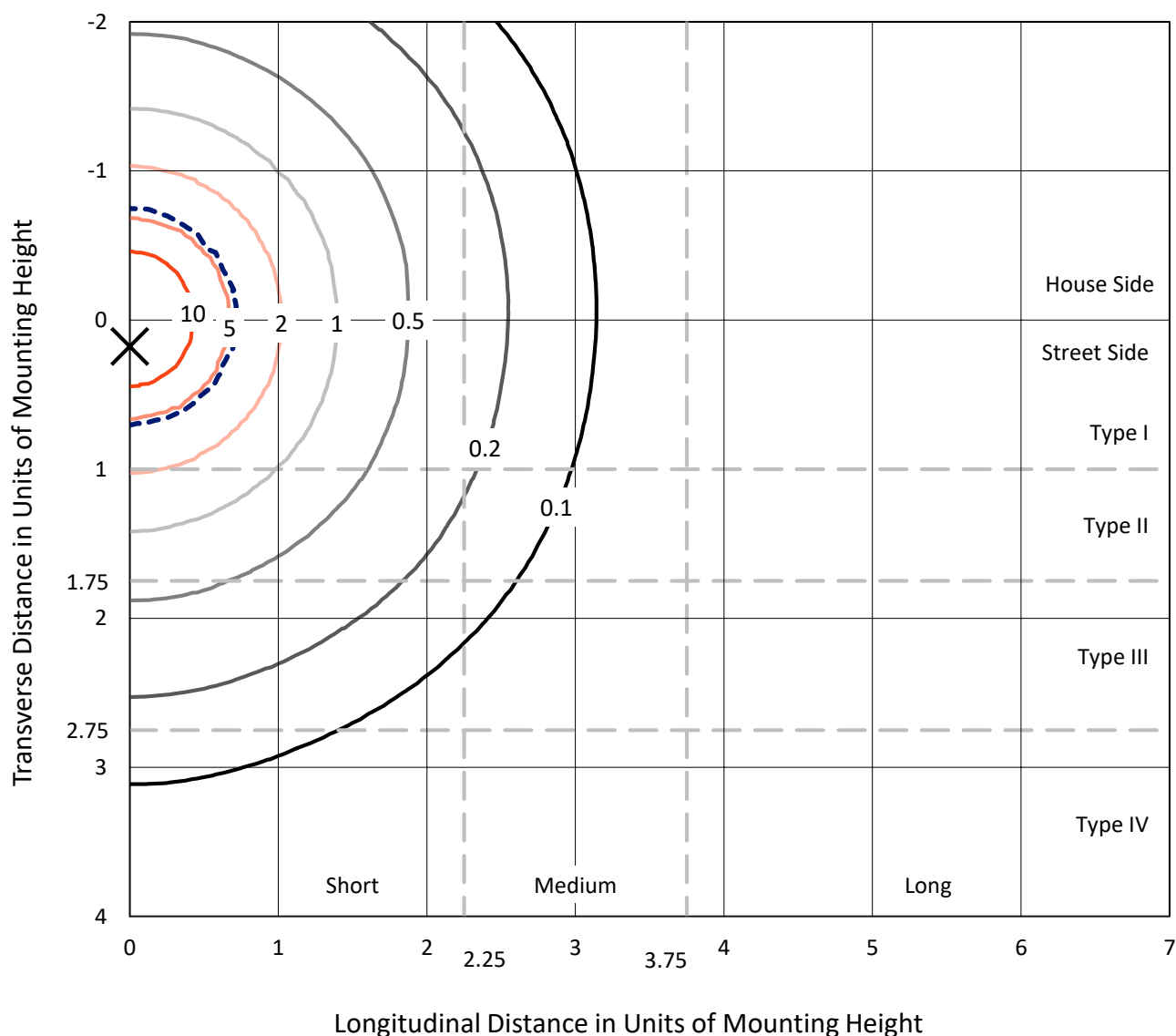
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



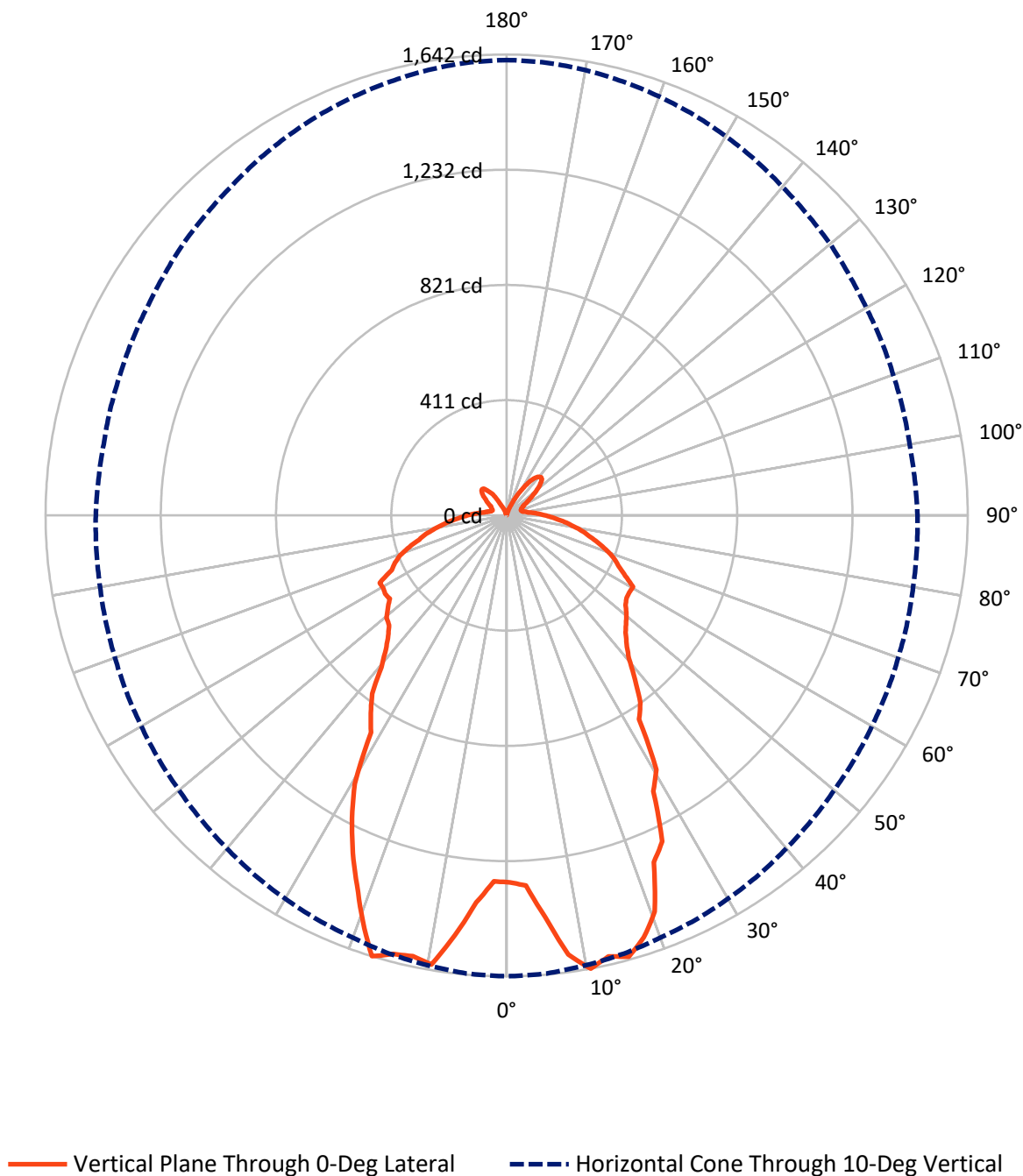
Based on 10 foot mounting height. Maximum calculated value = 15.2 fc

Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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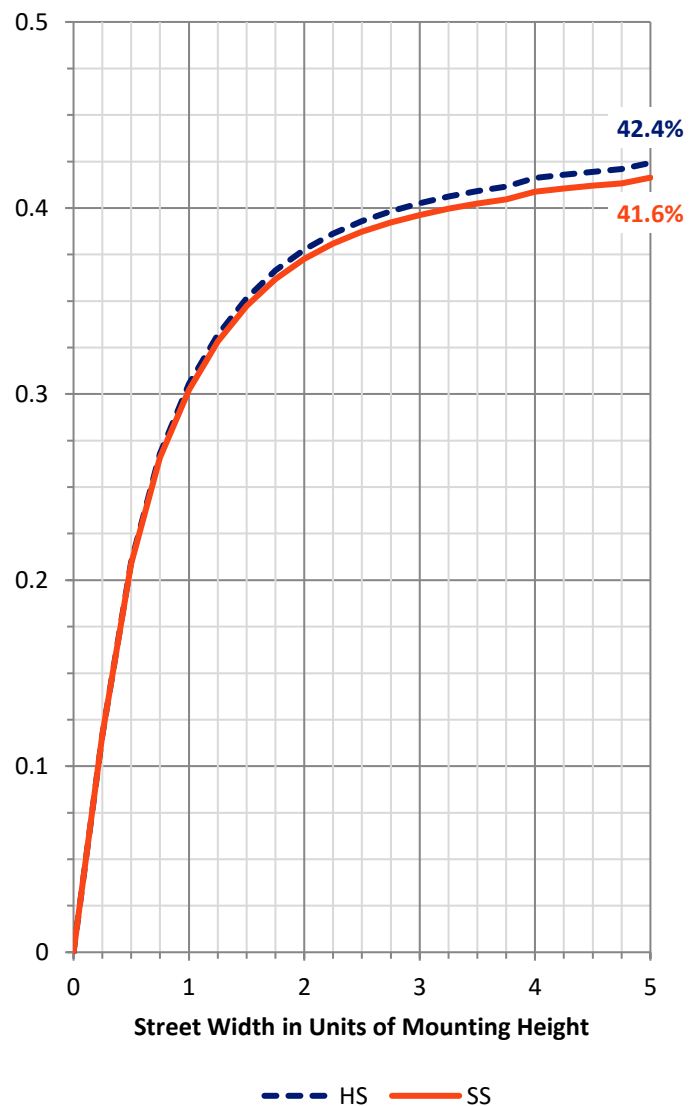
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1820.0	268.9	2088.9
	% Fixture	44.0	6.5	50.5
Street Side	Lumens	1772.2	276.9	2049.1
	% Fixture	42.8	6.7	49.5
Total	Lumens	3592.2	545.8	4138.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.3
10°-20°	434.1	10.5
20°-30°	572.6	13.8
30°-40°	522.0	12.6
40°-50°	462.9	11.2
50°-60°	463.5	11.2
60°-70°	447.8	10.8
70°-80°	338.6	8.2
80°-90°	212.1	5.1
90°-100°	114.2	2.8
100°-110°	64.6	1.6
110°-120°	56.7	1.4
120°-130°	76.2	1.8
130°-140°	111.5	2.7
140°-150°	89.0	2.2
150°-160°	30.4	0.7
160°-170°	3.2	0.1
170°-180°	0.0	0.0
0°-90°	3592.2	86.8
0°-180°	4138.0	100.0

Coefficient of Utilization



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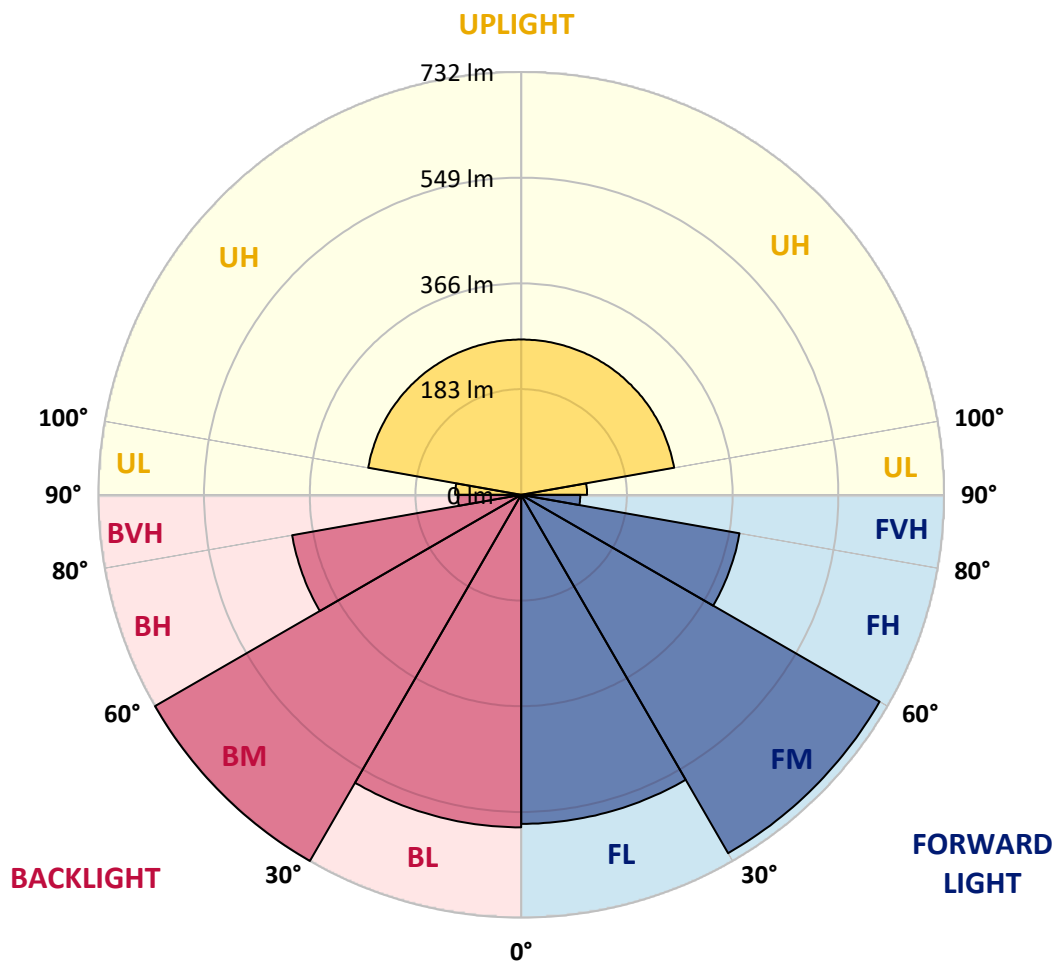
CATALOG NUMBER: CRTK-X-A08-E-120-5 +RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.6	13.8			
FM	(30°-60°)	716.4	17.3			
FH	(60°-80°)	383.9	9.3			G0/660
FVH	(80°-90°)	102.3	2.5			G2/225
BL	(0°-30°)	575.6	13.9	B2/1000		
BM	(30°-60°)	732.0	17.7	B1/1000		
BH	(60°-80°)	402.6	9.7	B1/500		G0/660
BVH	(80°-90°)	109.8	2.7			G2/225
UL	(90°-100°)	114.2	2.8		U3/500	
UH	(100°-180°)	268.9	6.5		U3/500	

BUG Rating: B2-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307
2.5°	1320	1322	1319	1320	1319	1321	1319	1317	1317	1316	1317
5°	1438	1441	1439	1440	1436	1434	1432	1427	1423	1419	1416
7.5°	1580	1581	1580	1573	1567	1558	1548	1540	1530	1520	1508
10°	1642	1638	1627	1616	1601	1590	1577	1564	1549	1536	1523
12.5°	1612	1612	1608	1605	1598	1593	1581	1570	1560	1548	1536
15°	1631	1634	1631	1627	1618	1611	1600	1589	1577	1566	1552
17.5°	1581	1587	1596	1596	1591	1585	1576	1564	1556	1553	1547
20°	1507	1500	1479	1472	1460	1444	1439	1440	1438	1449	1443
22.5°	1342	1343	1340	1348	1384	1386	1372	1344	1323	1315	1319
25°	1287	1285	1269	1250	1243	1220	1206	1229	1232	1240	1229
27.5°	1113	1108	1120	1161	1166	1161	1152	1146	1116	1108	1128
30°	1051	1035	1021	1017	1003	994	1001	1011	1021	1035	1027
32.5°	866	870	869	871	869	867	867	865	873	872	897
35°	820	823	823	824	824	824	817	817	810	806	805
37.5°	743	741	743	743	746	752	750	751	746	744	742
40°	670	669	667	664	664	665	665	664	663	663	666
42.5°	626	626	623	622	622	622	621	618	618	618	618
45°	594	593	594	590	588	588	585	586	583	584	584
47.5°	572	567	564	565	561	563	560	559	558	558	556
50°	553	548	546	546	544	542	544	544	541	546	547
52.5°	530	529	529	524	522	517	517	519	522	521	521
55°	518	518	517	512	513	513	510	508	504	505	508
57.5°	516	518	514	509	500	499	497	498	501	505	503
60°	517	518	514	513	507	502	502	499	498	500	505
62.5°	474	477	473	473	466	466	469	471	476	475	479
65°	439	440	439	434	430	429	429	431	436	436	443
67.5°	414	414	412	409	406	407	407	409	414	416	421
70°	381	376	376	371	368	368	370	373	378	383	388
72.5°	345	346	341	339	335	335	337	340	345	347	352
75°	309	308	307	302	299	297	300	302	306	310	312
77.5°	279	278	275	273	269	270	271	273	275	279	281
80°	245	244	241	241	237	236	239	239	242	244	246
82.5°	214	214	213	211	208	207	208	210	212	213	217
85°	183	183	183	181	178	179	179	180	182	183	186
87.5°	157	157	155	156	153	152	153	154	156	157	160
90°	132	131	130	129	128	129	129	131	133	134	136
92.5°	113	111	111	109	111	111	112	115	114	115	117
95°	96	94	94	94	94	95	96	96	99	99	101
97.5°	77	78	79	79	78	78	77	78	80	81	84
100°	70	71	70	71	70	71	71	72	72	72	75
102.5°	61	62	61	62	62	61	61	62	62	63	64
105°	56	58	57	56	57	57	58	57	57	57	57
107.5°	56	55	55	54	55	55	54	56	55	55	55
110°	54	54	54	54	53	54	53	52	54	53	53



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	57	56	57	57	55	56	55	56	55	55	55
115°	58	59	57	58	57	59	59	59	54	55	57
117.5°	66	65	65	64	62	61	60	60	62	60	61
120°	71	71	71	70	67	66	66	64	64	64	64
122.5°	85	86	85	82	79	78	75	75	74	74	74
125°	102	103	102	98	95	91	90	88	87	86	85
127.5°	122	123	120	117	113	110	106	104	103	101	100
130°	146	144	143	139	135	132	130	126	125	123	120
132.5°	164	164	161	157	155	153	149	146	145	144	142
135°	179	178	174	173	171	169	169	166	163	161	159
137.5°	183	182	179	177	178	177	176	172	173	170	170
140°	178	178	176	175	173	175	176	173	175	174	174
142.5°	167	164	163	164	163	164	163	164	164	164	166
145°	148	147	145	147	146	147	148	149	149	150	151
147.5°	123	124	124	124	125	125	126	128	129	130	131
150°	97	96	97	98	98	100	100	102	104	105	107
152.5°	74	74	73	74	75	76	77	79	80	81	84
155°	52	53	51	53	53	55	55	56	57	58	61
157.5°	35	35	36	36	37	38	39	39	40	42	43
160°	21	21	21	21	21	22	24	25	26	26	28
162.5°	11	11	11	11	12	13	13	16	15	16	17
165°	2	1	3	3	3	4	5	5	5	6	6
167.5°	1	1	2	1	2	1	2	2	2	2	2
170°	1	1	0	0	0	2	0	1	0	1	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307
2.5°	1314	1313	1313	1311	1310	1310	1309	1307	1306	1305	1304
5°	1411	1408	1406	1400	1397	1396	1394	1389	1386	1387	1382
7.5°	1499	1490	1481	1473	1467	1463	1462	1455	1454	1452	1452
10°	1513	1502	1493	1484	1477	1470	1466	1463	1459	1457	1461
12.5°	1521	1507	1499	1489	1483	1478	1469	1465	1465	1467	1470
15°	1536	1525	1513	1503	1494	1486	1478	1473	1472	1475	1479
17.5°	1537	1524	1513	1502	1492	1484	1478	1476	1477	1482	1486
20°	1456	1450	1439	1415	1404	1413	1407	1410	1412	1413	1422
22.5°	1317	1311	1324	1312	1319	1315	1301	1279	1285	1321	1338
25°	1222	1211	1217	1200	1196	1221	1213	1209	1220	1225	1227
27.5°	1124	1144	1130	1111	1114	1133	1131	1115	1124	1134	1136
30°	1019	1032	1032	1018	1025	1042	1040	1052	1040	1044	1051
32.5°	905	900	888	882	898	913	911	911	910	915	921
35°	802	802	804	802	806	804	805	801	805	810	816
37.5°	745	747	754	754	757	757	758	756	757	760	762
40°	670	674	678	682	686	688	687	683	686	692	691
42.5°	619	621	620	620	620	621	623	623	623	623	622
45°	588	590	591	590	589	589	592	589	589	588	590
47.5°	559	563	563	564	561	560	558	563	560	561	567
50°	549	547	548	544	540	542	539	540	539	540	545
52.5°	521	517	517	520	515	518	514	516	518	518	520
55°	511	508	506	501	505	505	501	499	500	500	508
57.5°	502	497	494	491	494	493	496	497	500	498	504
60°	509	508	501	501	503	500	498	500	497	500	504
62.5°	484	484	475	479	477	475	473	476	477	489	495
65°	441	440	437	436	438	435	439	439	444	447	452
67.5°	422	421	419	420	420	419	420	422	424	428	432
70°	389	387	388	390	389	387	388	391	395	398	403
72.5°	353	354	353	354	354	353	354	356	358	361	363
75°	318	314	313	316	314	316	317	321	321	322	326
77.5°	283	283	284	286	284	284	286	289	291	294	296
80°	249	250	249	251	250	251	253	255	258	259	262
82.5°	218	219	220	220	220	221	224	226	229	230	232
85°	189	189	190	190	190	193	194	196	198	200	201
87.5°	162	164	164	165	165	167	168	171	173	175	176
90°	136	138	140	140	143	143	145	146	148	149	150
92.5°	121	117	120	119	122	124	127	125	130	126	129
95°	101	104	103	105	105	106	109	109	110	112	111
97.5°	83	86	85	89	87	90	89	88	91	91	91
100°	76	75	76	78	79	80	80	81	81	81	80
102.5°	65	65	66	66	68	67	67	68	68	68	68
105°	59	58	59	58	60	59	60	60	60	59	60
107.5°	57	56	55	57	55	56	55	55	55	56	55
110°	53	52	52	53	53	53	52	55	53	54	52



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	55	54	54	56	54	55	54	54	55	55	54
115°	59	57	55	54	53	56	53	57	54	55	55
117.5°	60	59	58	59	58	57	59	57	58	58	58
120°	63	62	61	60	59	60	58	60	59	59	61
122.5°	74	71	71	70	68	67	66	66	68	68	69
125°	84	83	81	79	79	77	75	76	76	77	79
127.5°	98	97	94	91	90	87	87	85	86	90	91
130°	117	115	112	108	105	102	100	102	102	103	106
132.5°	137	136	130	126	124	119	118	116	118	120	121
135°	156	154	148	144	141	138	136	135	136	135	138
137.5°	167	165	162	157	155	151	147	147	149	148	149
140°	173	169	167	164	160	158	155	156	155	156	156
142.5°	166	162	161	158	156	153	153	154	153	154	156
145°	152	151	149	149	148	147	147	146	147	147	149
147.5°	132	133	133	132	133	134	133	133	135	135	136
150°	110	111	112	111	112	114	114	115	116	115	117
152.5°	85	87	89	90	92	92	94	95	96	98	97
155°	62	64	65	66	66	69	70	71	72	73	74
157.5°	43	45	47	48	50	50	51	52	53	54	54
160°	28	29	30	31	33	33	33	34	34	36	34
162.5°	18	20	21	20	21	22	22	23	22	22	22
165°	9	9	9	9	10	10	10	11	11	11	11
167.5°	3	3	3	3	4	5	5	5	4	5	3
170°	2	1	0	0	0	0	1	0	1	1	1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307
2.5°	1305	1303	1302	1302	1303	1302	1304	1303	1302	1302	1302
5°	1381	1380	1378	1378	1379	1376	1373	1373	1374	1374	1375
7.5°	1452	1455	1459	1461	1465	1468	1476	1482	1491	1497	1498
10°	1465	1472	1479	1490	1504	1515	1528	1545	1560	1575	1588
12.5°	1476	1480	1494	1500	1513	1526	1537	1552	1565	1575	1586
15°	1485	1490	1500	1511	1524	1536	1550	1563	1577	1590	1597
17.5°	1490	1500	1507	1518	1532	1547	1560	1574	1590	1604	1619
20°	1431	1441	1446	1461	1473	1478	1482	1490	1505	1500	1491
22.5°	1337	1328	1337	1345	1338	1343	1341	1377	1396	1403	1415
25°	1216	1220	1246	1232	1239	1256	1283	1299	1312	1276	1279
27.5°	1139	1152	1158	1166	1168	1161	1160	1169	1176	1186	1195
30°	1045	1050	1064	1049	1049	1070	1089	1098	1102	1088	1065
32.5°	917	921	923	927	935	934	918	915	926	927	927
35°	817	813	813	816	817	823	827	837	840	848	853
37.5°	767	766	766	764	762	766	770	778	783	793	795
40°	693	691	689	686	685	688	688	692	694	695	698
42.5°	626	628	629	629	629	628	630	633	635	636	640
45°	590	591	594	593	595	596	595	597	598	598	598
47.5°	566	565	567	568	566	570	568	570	569	570	570
50°	550	551	555	554	556	557	556	558	556	557	562
52.5°	519	520	526	529	532	531	531	530	528	522	524
55°	512	512	515	516	512	510	515	513	517	524	525
57.5°	503	503	510	515	516	517	515	512	510	507	505
60°	508	511	515	520	517	514	517	514	520	518	523
62.5°	495	496	503	506	505	506	504	503	504	500	504
65°	454	458	461	461	461	458	459	458	454	453	453
67.5°	435	438	440	440	441	436	436	434	433	431	431
70°	405	408	408	410	407	404	405	403	401	400	397
72.5°	368	370	372	371	369	366	365	364	364	363	363
75°	328	331	331	332	329	330	327	326	324	323	323
77.5°	298	299	300	299	298	296	295	295	294	293	292
80°	264	264	264	265	262	262	260	261	259	258	256
82.5°	234	235	235	234	233	231	229	230	229	228	227
85°	204	204	205	204	202	200	200	199	197	198	197
87.5°	177	177	176	176	175	173	172	172	170	170	167
90°	150	150	151	150	149	147	147	147	145	143	143
92.5°	128	128	126	131	129	127	124	123	124	124	120
95°	112	110	110	111	108	107	107	107	106	105	105
97.5°	92	90	89	89	89	87	89	88	88	87	86
100°	80	80	81	80	79	78	79	79	78	78	76
102.5°	68	68	66	66	68	67	67	65	66	65	66
105°	60	58	59	59	59	59	59	59	60	60	59
107.5°	55	55	55	56	56	56	55	55	56	55	57
110°	52	52	53	52	53	53	53	54	53	53	52



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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	54	54	55	55	53	54	55	55	55	56	55	0°
115°	56	54	56	55	56	56	55	57	57	53	54	2.5°
117.5°	59	59	60	57	58	58	60	60	59	59	60	5°
120°	60	61	64	61	62	62	60	61	62	61	61	7.5°
122.5°	70	71	71	71	70	70	71	71	71	72	70	10°
125°	80	80	81	81	80	81	80	82	82	83	80	12.5°
127.5°	92	92	92	93	93	93	93	95	95	98	95	15°
130°	106	108	109	109	109	110	112	112	113	115	112	17.5°
132.5°	124	124	124	126	127	128	130	133	135	132	129	20°
135°	139	141	144	143	145	146	150	153	151	148	141	22.5°
137.5°	151	154	156	157	159	159	162	167	165	156	144	25°
140°	158	162	164	166	167	168	169	172	172	162	146	27.5°
142.5°	157	160	162	163	162	165	166	167	166	155	140	30°
145°	149	152	154	155	155	156	156	153	153	144	131	32.5°
147.5°	137	138	139	140	140	141	139	135	130	124	114	35°
150°	117	118	119	119	117	118	116	112	104	97	90	37.5°
152.5°	97	98	98	98	96	96	94	89	82	76	65	40°
155°	74	74	75	72	71	69	68	65	61	55	48	42.5°
157.5°	54	54	53	51	52	51	49	49	43	40	34	45°
160°	35	36	35	33	33	31	30	30	27	25	21	47.5°
162.5°	23	23	22	20	20	20	19	18	15	14	12	50°
165°	10	9	10	8	9	8	8	6	5	6	5	52.5°
167.5°	4	4	4	3	3	3	2	3	2	1	0	55°
170°	1	1	0	0	1	1	1	0	1	2	2	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°



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CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
1307	1307	1307	1307
1302	1304	1302	1304
1375	1378	1378	1383
1499	1501	1507	1506
1600	1611	1619	1622
1595	1603	1605	1605
1603	1608	1611	1614
1628	1635	1638	1642
1511	1529	1533	1534
1429	1428	1414	1421
1304	1322	1323	1321
1200	1207	1213	1212
1085	1099	1097	1098
922	915	912	911
857	860	861	854
798	799	797	795
698	701	702	701
641	640	641	642
598	599	599	601
571	568	574	572
561	560	560	562
524	531	535	537
523	520	519	511
505	512	516	515
525	518	517	510
506	511	511	512
453	454	453	453
431	434	434	432
402	400	400	404
362	364	365	364
326	323	324	323
292	292	293	294
257	257	257	259
226	227	226	227
196	196	196	197
167	168	168	168
143	144	142	144
124	120	120	123
103	102	102	102
84	83	83	84
76	75	75	74
65	66	64	66
58	59	59	59
55	55	55	57
54	53	54	53

CANDELA DISTRIBUTION:

	165°
112.5°	54
115°	56
117.5°	59
120°	60
122.5°	66
125°	73
127.5°	86
130°	102
132.5°	116
135°	127
137.5°	132
140°	129
142.5°	123
145°	116
147.5°	102
150°	80
152.5°	56
155°	41
157.5°	29
160°	17
162.5°	10
165°	4
167.5°	1
170°	1
172.5°	0
175°	0
177.5°	0
180°	0



'14230

CRTK-X-A08-E-120-5 +RMARROA5

TION (continued):

170°	175°	180°
55	54	55
55	58	59
60	59	61
62	65	64
70	73	73
76	83	84
85	89	92
99	104	106
107	112	117
119	118	125
122	122	128
122	121	125
115	113	113
105	102	100
93	88	89
72	65	62
49	44	40
35	33	30
25	22	23
15	13	12
7	6	6
3	1	0
1	1	0
1	0	0
0	0	0
0	0	0
0	0	0
0	0	0

(END OF REPORT)