

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: P14238

Luminaire Tested: **CRTK-X-A08-E-120-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14238
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-120-2
Description: STREETWORKS CARETAKER, TYPE 2, 8 LED
Light Source: [8]4000K LEDS
Ballast/Driver: [1]ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4448.2 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

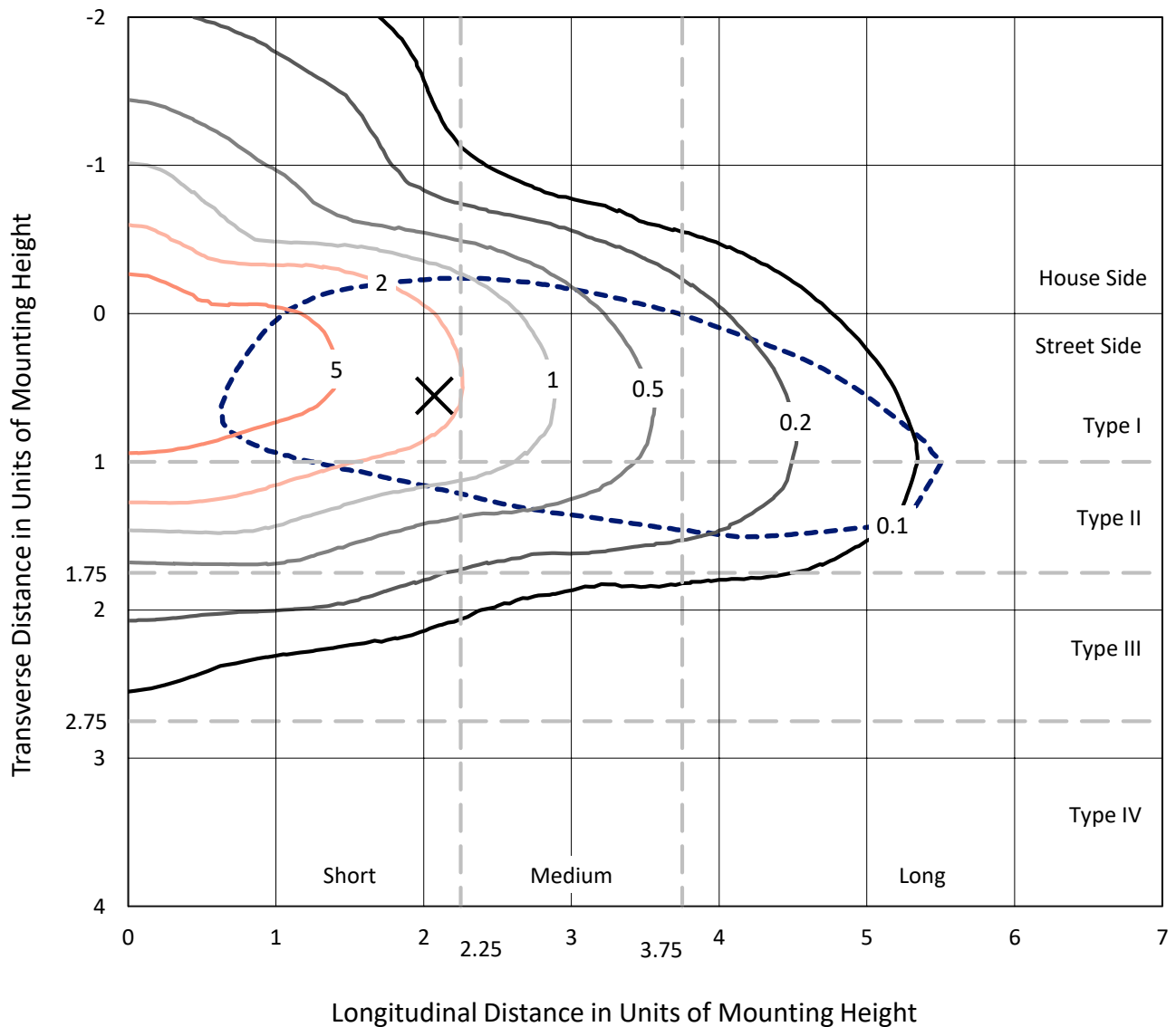
Input Watts (W): 49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

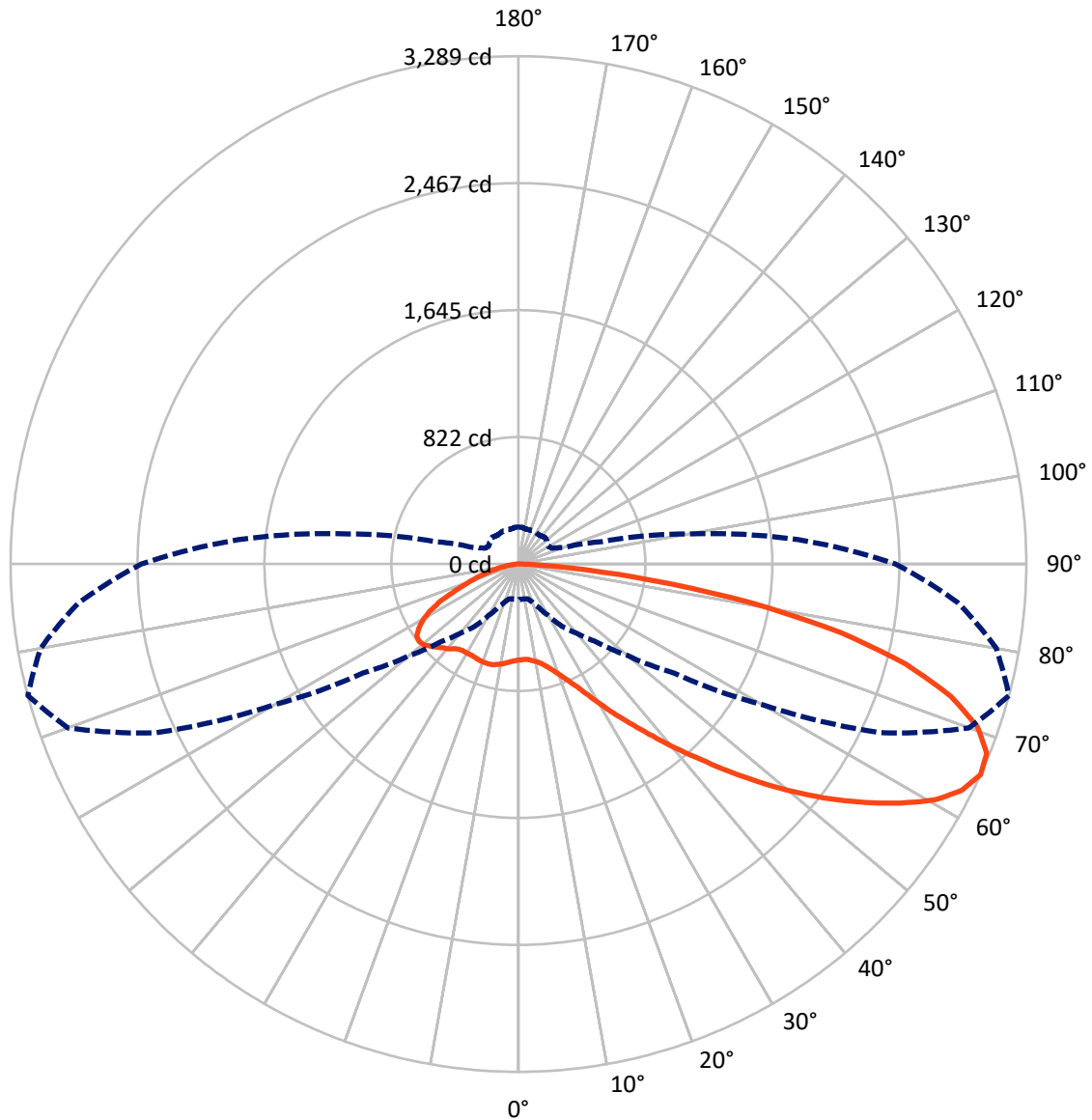
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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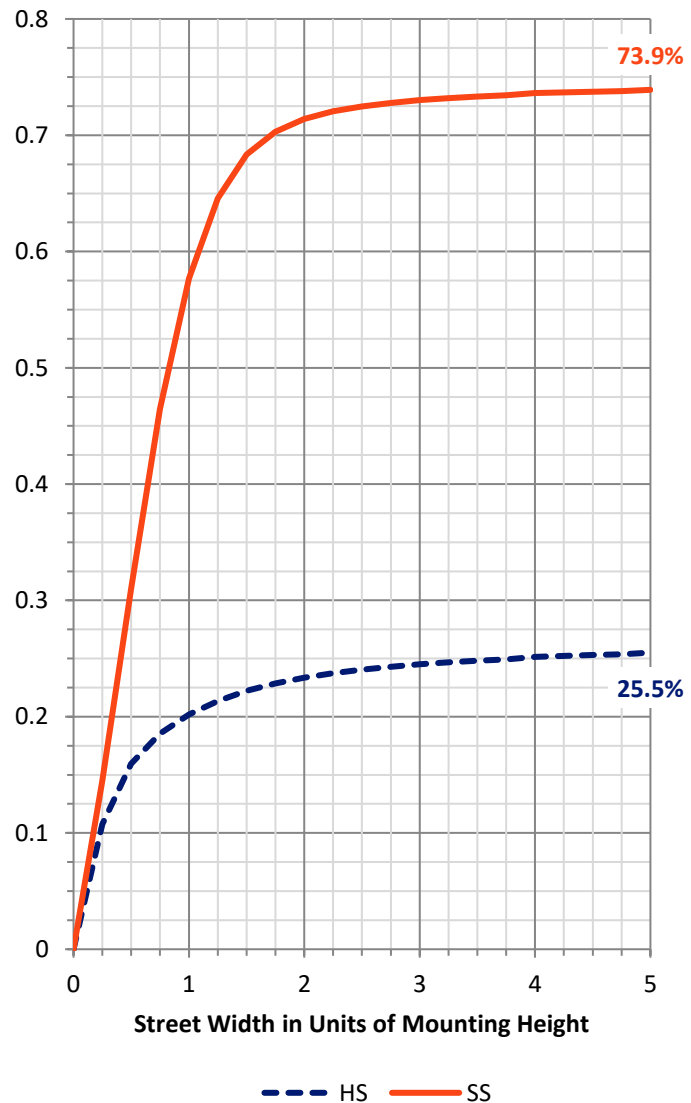
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1156.3	0.0	1156.3
	% Fixture	26.0	0.0	26.0
Street Side	Lumens	3291.9	0.0	3291.9
	% Fixture	74.0	0.0	74.0
Total	Lumens	4448.2	0.0	4448.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.4
10°-20°	196.5	4.4
20°-30°	354.1	8.0
30°-40°	562.4	12.6
40°-50°	799.3	18.0
50°-60°	946.2	21.3
60°-70°	868.0	19.5
70°-80°	545.2	12.3
80°-90°	115.3	2.6
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°	4448.2	100.0
0°-180°	4448.2	100.0



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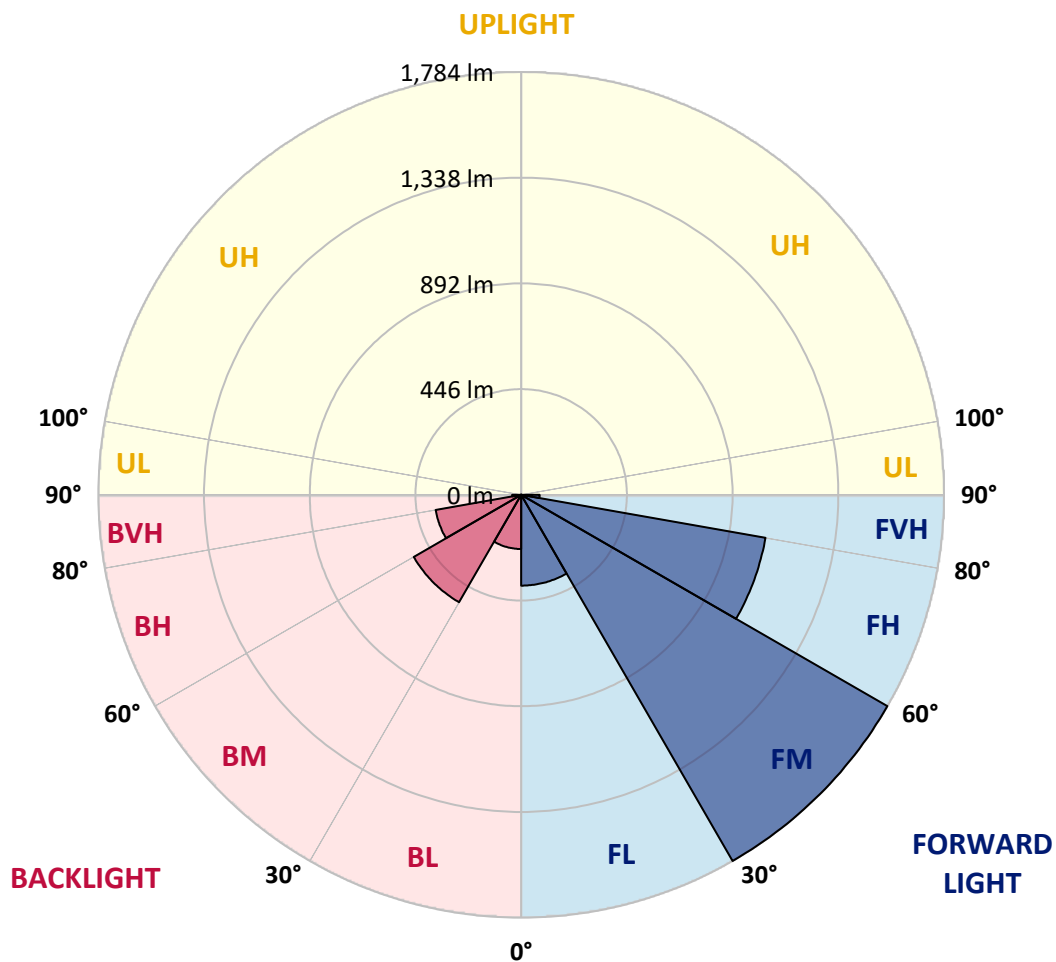
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.3	8.6			
FM	(30°-60°)	1784.3	40.1			
FH	(60°-80°)	1046.8	23.5			G1/1800
FVH	(80°-90°)	77.6	1.7			G1/100
BL	(0°-30°)	228.5	5.1	B1/500		
BM	(30°-60°)	523.6	11.8	B1/1000		
BH	(60°-80°)	366.4	8.2	B1/500		G1/500
BVH	(80°-90°)	37.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	622	622	622	622	622	622	622	622	622	622	622
2.5°	613	615	615	615	616	616	616	617	618	618	618
5°	620	621	620	621	621	620	620	621	621	620	619
7.5°	651	651	652	651	648	647	645	644	642	639	635
10°	698	698	698	695	692	688	684	681	677	672	663
12.5°	759	761	757	756	751	745	739	731	725	716	705
15°	831	831	830	827	822	815	806	797	785	771	757
17.5°	914	915	915	910	901	895	882	868	854	838	819
20°	1001	1001	1000	994	986	976	965	949	932	912	891
22.5°	1082	1086	1083	1078	1069	1058	1047	1032	1015	993	969
25°	1162	1164	1161	1155	1145	1136	1124	1112	1099	1075	1051
27.5°	1243	1246	1245	1239	1228	1218	1204	1189	1175	1160	1141
30°	1318	1320	1317	1312	1303	1292	1280	1266	1256	1242	1231
32.5°	1381	1380	1377	1376	1369	1361	1351	1340	1332	1327	1319
35°	1425	1426	1429	1428	1420	1418	1417	1414	1415	1410	1411
37.5°	1415	1418	1427	1441	1452	1458	1470	1479	1488	1494	1507
40°	1377	1382	1392	1412	1437	1466	1497	1527	1552	1580	1609
42.5°	1315	1317	1333	1360	1397	1438	1489	1544	1595	1647	1702
45°	1233	1240	1262	1295	1341	1398	1458	1534	1614	1696	1787
47.5°	1129	1136	1163	1203	1259	1325	1398	1491	1592	1709	1844
50°	990	1003	1041	1089	1151	1228	1310	1413	1537	1685	1859
52.5°	790	808	860	940	1010	1096	1194	1301	1435	1612	1822
55°	574	592	644	738	843	943	1045	1157	1300	1491	1731
57.5°	433	444	476	532	642	772	879	993	1130	1321	1574
60°	336	348	368	407	469	581	713	821	946	1125	1377
62.5°	266	272	283	306	350	419	540	653	761	914	1149
65°	231	229	229	234	261	310	384	492	584	711	922
67.5°	212	206	196	190	198	219	267	342	424	519	695
70°	196	190	177	167	160	168	190	230	296	366	487
72.5°	169	165	158	149	142	143	156	180	223	263	329
75°	133	130	126	124	122	124	133	149	175	205	231
77.5°	97	97	94	98	103	110	116	126	141	164	173
80°	70	70	73	75	80	85	92	99	110	131	135
82.5°	40	41	44	46	46	52	59	64	70	81	91
85°	19	18	23	25	24	26	35	33	34	39	47
87.5°	9	9	5	7	8	8	9	8	8	8	12
90°	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°	622	622	622	622	622	622	622	622	622	622	622
2.5°	619	618	619	621	619	620	620	620	622	624	626
5°	621	619	619	620	620	622	623	623	626	629	634
7.5°	633	631	631	629	631	631	632	634	639	642	645
10°	658	652	647	644	643	642	642	643	647	651	656
12.5°	696	686	675	666	660	657	656	657	659	663	665
15°	744	730	715	701	688	680	674	673	674	673	673
17.5°	803	782	762	742	724	708	694	693	687	680	676
20°	867	843	820	794	766	741	722	709	698	690	675
22.5°	944	916	885	851	817	784	754	731	714	695	672
25°	1027	996	961	923	880	835	792	759	730	702	668
27.5°	1121	1091	1056	1011	961	905	849	802	757	715	664
30°	1216	1190	1159	1116	1056	989	919	854	800	733	666
32.5°	1310	1292	1264	1223	1165	1094	1010	923	842	758	666
35°	1412	1404	1378	1336	1280	1214	1123	1010	905	790	672
37.5°	1519	1520	1503	1467	1415	1349	1257	1137	998	844	686
40°	1635	1649	1647	1620	1567	1498	1401	1280	1117	917	712
42.5°	1756	1790	1805	1780	1728	1648	1531	1390	1213	979	730
45°	1882	1950	1976	1972	1918	1834	1705	1535	1318	1045	755
47.5°	1995	2113	2166	2166	2116	2025	1889	1698	1436	1112	780
50°	2079	2273	2372	2371	2321	2226	2076	1859	1556	1174	805
52.5°	2100	2382	2564	2586	2527	2420	2257	2016	1663	1226	815
55°	2052	2433	2696	2798	2726	2604	2428	2155	1754	1246	808
57.5°	1928	2397	2774	2957	2921	2769	2575	2263	1813	1244	771
60°	1735	2280	2790	3064	3101	2920	2702	2351	1843	1224	718
62.5°	1499	2082	2721	3114	3225	3051	2800	2416	1845	1183	648
65°	1229	1820	2586	3104	3289	3142	2856	2441	1816	1120	558
67.5°	956	1497	2369	3005	3271	3164	2841	2388	1720	1012	446
70°	687	1145	2057	2813	3152	3091	2719	2222	1536	842	353
72.5°	455	793	1637	2488	2927	2905	2487	1947	1281	636	280
75°	299	483	1135	2072	2591	2590	2170	1621	1007	427	207
77.5°	210	296	702	1571	2134	2156	1779	1255	752	274	154
80°	142	190	434	1007	1529	1600	1283	859	488	163	108
82.5°	87	105	248	551	868	943	700	466	234	83	59
85°	52	52	108	210	335	360	245	169	71	37	30
87.5°	14	13	19	30	64	73	50	34	13	8	9
90°	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°	622	622	622	622	622	622	622	622	622	622	622
2.5°	626	628	629	631	632	632	633	632	633	634	633
5°	635	638	641	644	644	644	646	645	648	649	649
7.5°	649	649	655	656	656	655	657	658	657	656	653
10°	655	658	661	661	660	657	655	652	649	646	643
12.5°	664	664	662	657	653	645	638	632	626	620	613
15°	668	663	654	645	634	623	611	600	588	578	569
17.5°	665	652	639	622	604	587	570	551	535	521	509
20°	657	635	614	589	564	538	515	492	473	454	442
22.5°	643	613	581	546	516	481	454	429	408	394	387
25°	624	583	540	499	459	421	391	369	359	354	350
27.5°	608	553	500	448	403	367	345	336	332	327	327
30°	590	519	455	398	354	326	316	309	306	311	310
32.5°	569	482	407	349	310	294	288	287	288	294	299
35°	551	448	364	305	280	270	270	274	278	283	290
37.5°	537	419	330	278	261	260	261	264	268	273	280
40°	530	393	304	266	257	256	255	258	260	268	277
42.5°	514	366	284	259	252	247	245	246	250	258	266
45°	503	347	278	260	250	246	242	243	243	250	265
47.5°	490	331	279	259	249	243	239	234	238	248	259
50°	478	326	282	265	254	246	237	233	238	246	254
52.5°	461	325	283	267	258	247	236	237	241	243	249
55°	446	324	281	268	263	249	240	238	238	239	243
57.5°	423	310	273	266	260	249	241	235	231	231	235
60°	389	290	262	259	254	253	244	234	230	227	233
62.5°	349	265	245	247	248	252	239	232	228	231	233
65°	309	241	225	229	238	243	235	230	233	235	233
67.5°	267	211	199	204	221	232	226	230	240	235	223
70°	232	186	169	175	199	213	219	233	244	230	217
72.5°	196	161	145	151	171	197	215	236	245	231	209
75°	155	130	117	122	140	172	203	230	237	226	199
77.5°	119	101	92	97	111	144	186	216	224	214	188
80°	87	76	72	72	87	110	156	188	199	198	171
82.5°	53	49	45	44	55	76	115	149	161	163	144
85°	29	27	23	25	31	47	71	90	100	101	88
87.5°	9	8	7	10	11	20	27	29	38	45	36
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	622	622	622	622
2.5°	634	634	636	634
5°	649	649	649	649
7.5°	654	656	653	653
10°	641	641	640	640
12.5°	609	607	605	603
15°	563	559	556	554
17.5°	500	492	489	488
20°	430	426	422	422
22.5°	387	383	382	382
25°	348	347	347	351
27.5°	326	326	326	325
30°	312	316	316	317
32.5°	304	309	312	310
35°	296	299	302	303
37.5°	286	292	294	296
40°	285	288	290	290
42.5°	278	287	290	291
45°	278	287	290	290
47.5°	270	273	274	274
50°	260	262	266	267
52.5°	253	260	263	264
55°	250	260	266	271
57.5°	246	257	265	268
60°	246	253	258	261
62.5°	240	249	248	251
65°	231	233	239	239
67.5°	217	216	219	221
70°	198	193	197	194
72.5°	189	178	177	177
75°	174	161	153	155
77.5°	161	141	130	129
80°	147	124	108	105
82.5°	124	108	94	89
85°	75	67	57	54
87.5°	23	22	21	21
90°	0	0	0	0

(END OF REPORT)