

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: P314575

Luminaire Tested: **MPN-A7-D-U-ASYM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A7-D-U-ASYM
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5959.2 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G5

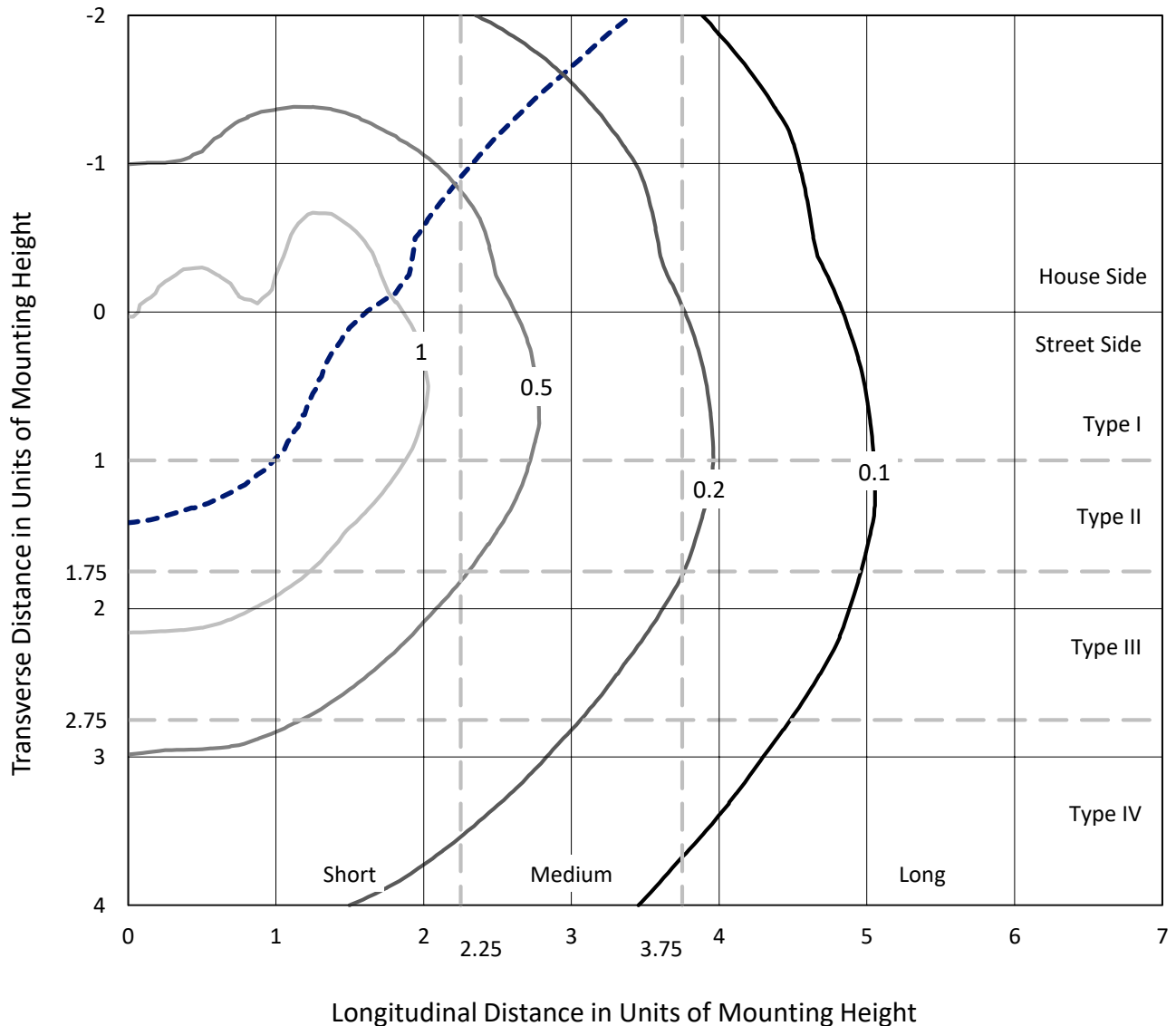
Input Watts (W): 69.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

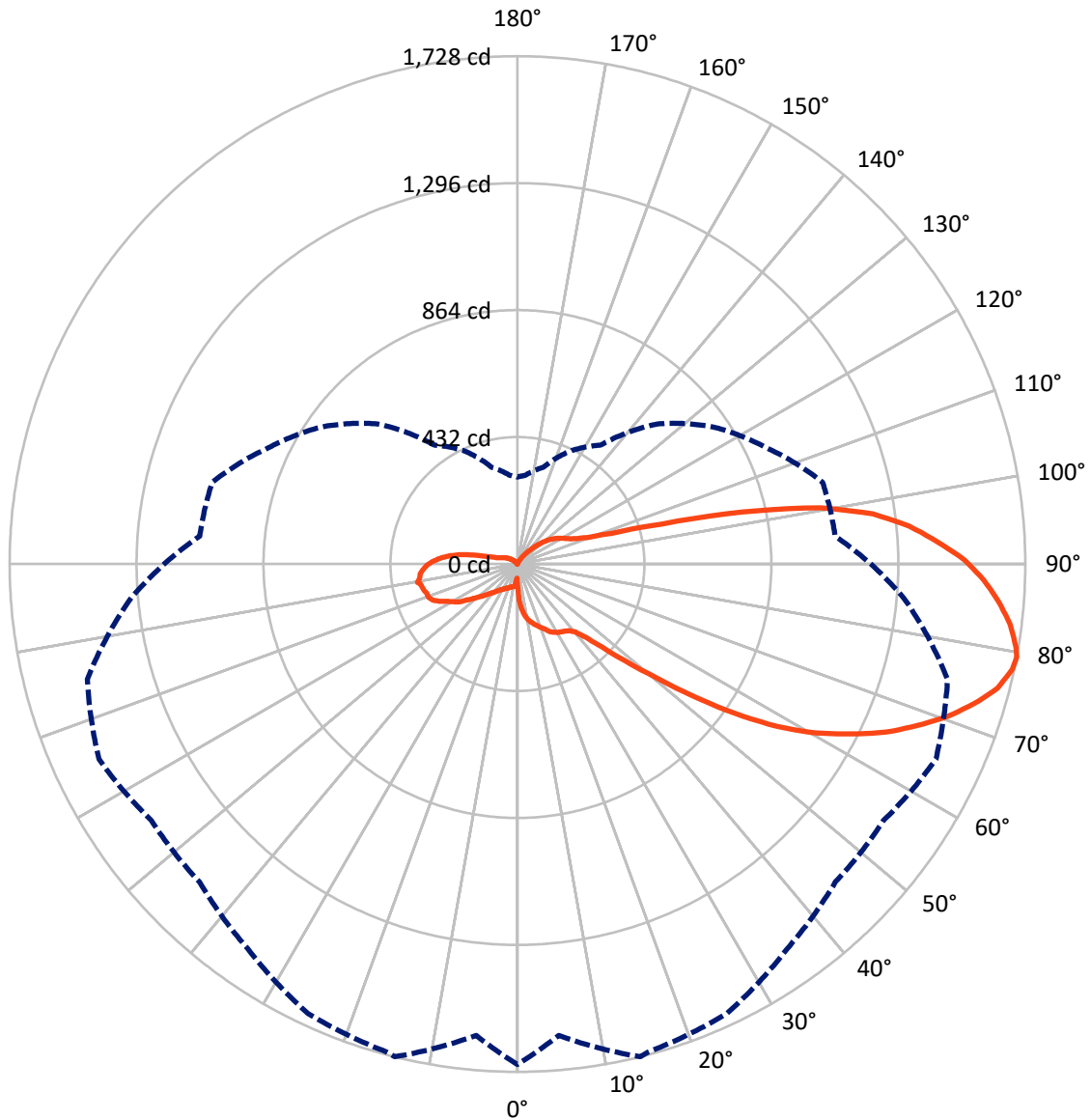
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 79-Deg Vertical

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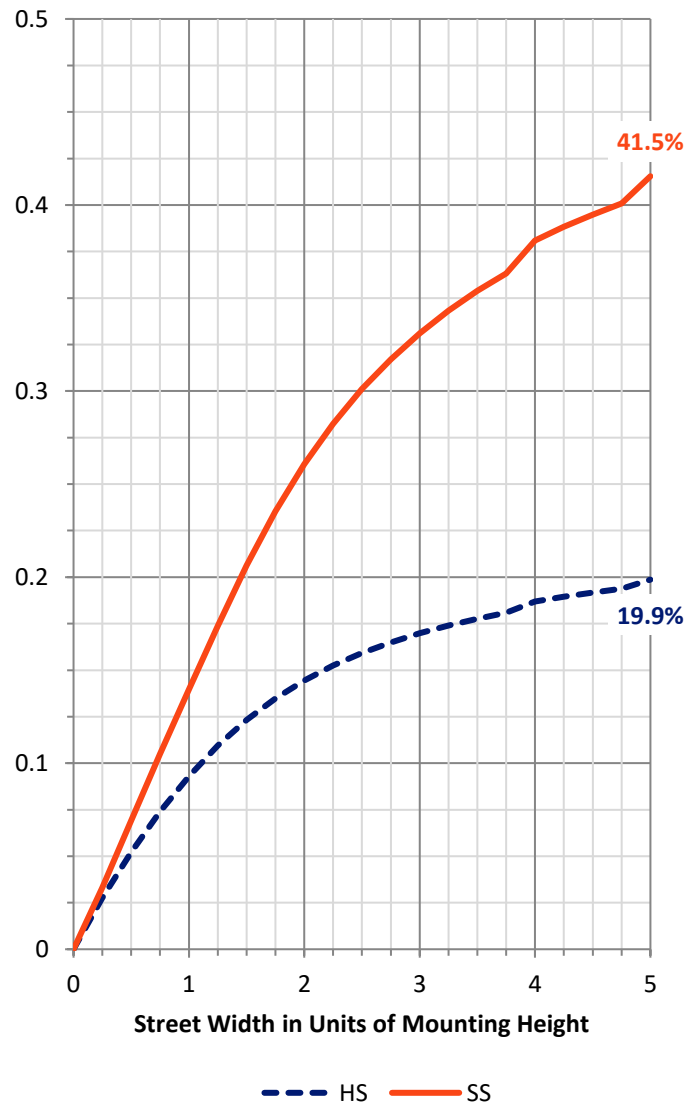
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.1	499.1	1847.1
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	2969.0	1143.0	4112.0
	% Fixture	49.8	19.2	69.0
Total	Lumens	4317.1	1642.1	5959.2
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.2
10°-20°	42.7	0.7
20°-30°	83.5	1.4
30°-40°	127.3	2.1
40°-50°	239.0	4.0
50°-60°	574.8	9.6
60°-70°	920.3	15.4
70°-80°	1155.5	19.4
80°-90°	1162.9	19.5
90°-100°	949.3	15.9
100°-110°	401.6	6.7
110°-120°	138.9	2.3
120°-130°	92.6	1.6
130°-140°	45.8	0.8
140°-150°	13.2	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4317.1	72.4
0°-180°	5959.2	100.0



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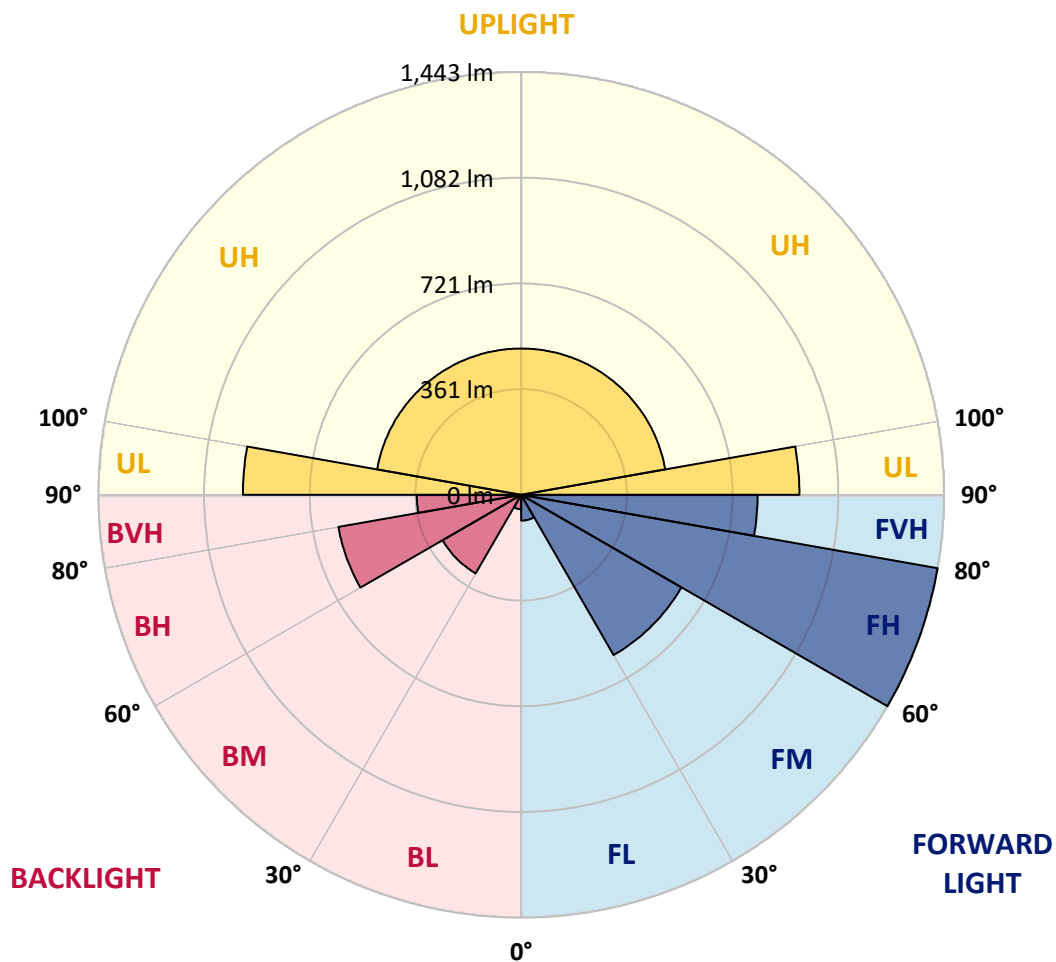
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.2	1.5			
FM (30°-60°)	631.2	10.6			
FH (60°-80°)	1442.7	24.2			G1/1800
FVH (80°-90°)	806.9	13.5			G5
BL (0°-30°)	49.1	0.8	B0/110		
BM (30°-60°)	309.8	5.2	B1/1000		
BH (60°-80°)	633.1	10.6	B2/1000		G2/1000
BVH (80°-90°)	356.0	6.0			G3/500
UL (90°-100°)	949.3	15.9		U4/1000	
UH (100°-180°)	499.1	8.4		U3/500	

BUG Rating: B2-U4-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	76	76	76	76	76	76	76	76	76	76	76
2.5°	130	126	126	126	123	118	113	110	103	97	88
5°	158	156	154	154	151	150	145	137	129	121	111
7.5°	179	177	175	176	172	168	163	156	148	140	130
10°	193	192	191	191	186	181	175	169	160	151	140
12.5°	203	202	202	202	197	190	185	178	170	160	149
15°	213	213	212	211	206	200	195	189	181	170	159
17.5°	223	222	221	221	216	210	205	200	190	179	168
20°	235	233	231	231	226	219	215	210	200	189	177
22.5°	247	245	241	241	237	229	227	221	211	199	187
25°	260	259	255	254	249	239	237	232	221	209	197
27.5°	270	269	263	263	259	250	245	239	228	215	205
30°	277	276	270	269	264	258	252	243	232	219	210
32.5°	280	280	275	274	268	263	257	248	234	222	212
35°	286	285	280	279	272	268	260	249	236	224	214
37.5°	292	292	288	287	279	275	267	257	243	231	220
40°	306	307	304	303	295	293	286	279	269	257	238
42.5°	338	339	340	338	332	329	323	322	313	298	280
45°	393	399	402	399	391	390	385	387	380	365	342
47.5°	477	481	492	492	481	478	474	475	475	458	423
50°	583	591	599	605	600	592	587	597	605	581	534
52.5°	712	720	744	742	736	732	735	754	772	751	676
55°	863	874	896	901	889	884	881	909	939	917	816
57.5°	1014	1025	1044	1052	1036	1020	991	1022	1059	1031	909
60°	1140	1146	1167	1176	1159	1136	1083	1114	1155	1125	988
62.5°	1254	1256	1273	1281	1261	1237	1174	1201	1235	1206	1057
65°	1344	1343	1379	1382	1351	1318	1258	1283	1310	1279	1114
67.5°	1435	1424	1467	1470	1439	1396	1335	1348	1365	1342	1177
70°	1510	1496	1553	1558	1512	1455	1406	1414	1439	1403	1229
72.5°	1588	1554	1625	1628	1586	1511	1462	1460	1489	1449	1268
75°	1651	1585	1687	1683	1644	1560	1506	1502	1540	1492	1297
77.5°	1709	1614	1722	1718	1682	1590	1530	1526	1567	1516	1323
79°	1703	1610	1728	1719	1687	1599	1530	1521	1571	1515	1319
80°	1704	1598	1720	1712	1677	1590	1514	1500	1545	1490	1300
82.5°	1664	1570	1689	1677	1650	1570	1494	1483	1543	1482	1292
85°	1622	1527	1643	1635	1610	1531	1453	1426	1479	1419	1247
87.5°	1556	1473	1588	1582	1558	1488	1406	1387	1443	1389	1216
90°	1499	1417	1522	1516	1494	1426	1351	1348	1405	1351	1177
92.5°	1412	1335	1432	1425	1409	1351	1282	1273	1320	1260	1102
95°	1325	1251	1340	1337	1316	1266	1200	1183	1230	1186	1038
97.5°	1210	1140	1222	1221	1206	1159	1103	1096	1145	1100	967
100°	1032	971	1049	1040	1042	1004	958	972	1021	989	869
102.5°	767	737	784	788	791	765	748	746	793	764	668
105°	500	486	510	514	508	489	443	447	452	428	372
107.5°	334	328	338	340	335	319	292	289	291	278	244



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	256	253	259	260	256	241	226	225	227	218	195
112.5°	219	217	220	220	217	206	197	197	200	193	174
115°	200	198	199	200	196	186	179	181	184	178	161
117.5°	186	185	185	185	182	173	169	170	173	167	152
120°	174	174	173	173	170	163	160	162	164	159	145
122.5°	162	162	161	161	159	153	151	154	156	150	138
125°	149	149	147	147	145	142	141	144	146	141	129
127.5°	135	135	132	133	130	129	129	133	135	131	120
130°	120	119	115	116	114	114	116	119	121	117	108
132.5°	102	102	97	98	97	98	100	103	104	102	94
135°	84	84	80	81	80	80	83	85	87	85	78
137.5°	67	67	63	64	63	62	64	65	66	64	61
140°	52	52	50	50	48	47	48	49	49	48	46
142.5°	41	42	40	40	37	37	37	38	38	38	36
145°	31	32	30	30	28	28	28	29	29	29	27
147.5°	22	22	21	21	19	20	20	21	21	20	19
150°	11	11	11	11	11	11	12	12	12	12	11
152.5°	1	1	1	1	1	1	1	1	1	1	2
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	1	0	0	0	0
160°	0	0	0	0	0	0	1	1	1	0	0
162.5°	0	0	0	0	0	0	1	1	1	0	0
165°	0	0	0	1	0	1	1	1	1	0	0
167.5°	0	0	1	1	1	1	1	1	1	1	0
170°	0	0	1	1	1	1	1	1	1	1	0
172.5°	1	0	1	1	1	1	1	1	1	1	0
175°	1	0	1	1	1	1	1	1	1	1	1
177.5°	1	0	1	1	1	1	1	1	1	1	0
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	76	76	76	76	76	76	76	76	76	76	76
2.5°	85	81	75	69	62	57	52	50	48	46	46
5°	105	100	92	83	78	71	67	63	61	61	61
7.5°	126	121	110	98	92	84	81	77	74	71	70
10°	135	130	120	110	102	94	87	83	78	75	75
12.5°	144	138	128	118	108	98	91	85	80	76	75
15°	153	147	136	125	113	102	94	87	81	77	76
17.5°	162	156	144	132	119	107	98	89	83	79	78
20°	171	164	152	139	125	113	101	92	86	82	81
22.5°	181	173	160	146	131	119	105	95	88	85	85
25°	191	181	168	152	138	125	109	98	91	89	90
27.5°	198	187	174	158	143	130	114	101	94	94	94
30°	202	193	179	163	149	135	118	105	98	98	98
32.5°	204	195	181	166	153	140	122	109	102	103	103
35°	206	198	184	169	157	143	127	114	108	109	108
37.5°	211	202	188	173	162	148	133	120	115	116	115
40°	227	216	201	183	172	156	141	127	124	124	123
42.5°	260	245	227	205	189	169	152	137	133	132	131
45°	316	292	273	241	216	190	168	149	144	142	141
47.5°	388	360	335	300	261	221	192	166	158	154	152
50°	493	446	413	370	320	264	222	188	174	165	163
52.5°	619	557	522	461	392	317	260	211	191	179	178
55°	749	671	630	561	468	380	304	240	212	196	194
57.5°	836	751	711	638	532	438	345	267	240	215	213
60°	902	811	774	686	576	483	374	293	255	231	227
62.5°	959	861	832	727	616	515	398	316	272	251	244
65°	1016	916	881	773	648	547	421	343	298	268	268
67.5°	1070	968	931	817	688	578	437	365	316	286	286
70°	1119	1006	977	857	727	603	436	386	326	299	287
72.5°	1160	1041	1013	892	758	630	447	407	326	303	296
75°	1182	1066	1048	913	792	652	465	409	334	302	297
77.5°	1208	1088	1070	931	807	669	484	423	338	304	295
79°	1202	1085	1075	935	813	674	494	424	341	303	296
80°	1188	1077	1061	919	806	666	494	424	351	301	293
82.5°	1176	1067	1053	914	794	652	495	423	340	295	288
85°	1140	1038	1017	885	776	636	488	418	338	281	277
87.5°	1105	1006	991	860	751	616	479	406	325	271	268
90°	1070	972	954	830	720	584	455	389	312	253	254
92.5°	1003	915	896	781	675	549	427	363	291	240	235
95°	942	859	840	735	631	514	392	335	266	220	217
97.5°	881	799	779	682	580	471	353	301	235	196	190
100°	786	712	686	595	493	404	295	252	196	163	156
102.5°	595	535	508	444	350	289	214	186	144	123	119
105°	332	302	290	253	211	175	134	124	99	88	87
107.5°	222	204	195	177	148	124	97	91	75	67	66



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	180	167	159	144	122	102	81	76	63	57	56
112.5°	162	149	142	128	108	90	72	67	56	51	50
115°	150	139	131	118	99	82	66	61	52	46	45
117.5°	142	131	123	110	93	76	62	56	47	41	41
120°	135	125	117	104	87	71	57	50	42	36	36
122.5°	129	119	111	97	80	64	52	44	37	31	31
125°	122	113	104	90	73	58	46	38	31	26	26
127.5°	113	105	95	81	66	51	41	33	26	22	22
130°	103	94	84	71	57	44	34	28	22	19	18
132.5°	89	82	72	61	48	37	28	23	18	15	15
135°	75	68	60	49	39	29	22	18	15	12	12
137.5°	58	53	47	38	29	22	17	14	11	9	9
140°	44	41	36	28	22	17	13	11	9	7	6
142.5°	34	32	28	22	17	13	10	8	6	5	4
145°	26	24	21	16	12	9	7	5	4	3	2
147.5°	19	17	14	11	8	5	4	3	2	1	1
150°	10	9	8	6	4	2	1	1	0	0	0
152.5°	2	2	2	2	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	1	1	1	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	1	1	1	0	0	0	0	0	0
175°	0	1	1	1	0	0	0	0	0	0	0
177.5°	0	1	1	1	1	0	0	0	0	0	0
180°	1	1	1	1	1	1	1	1	1	1	1

(END OF REPORT)