

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: P314647

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A7-D-U-ASYM
Description: BRECKENRIDGE 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: 6221.1 lumens
Efficiency: N/A
Efficacy: 89.3 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 (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



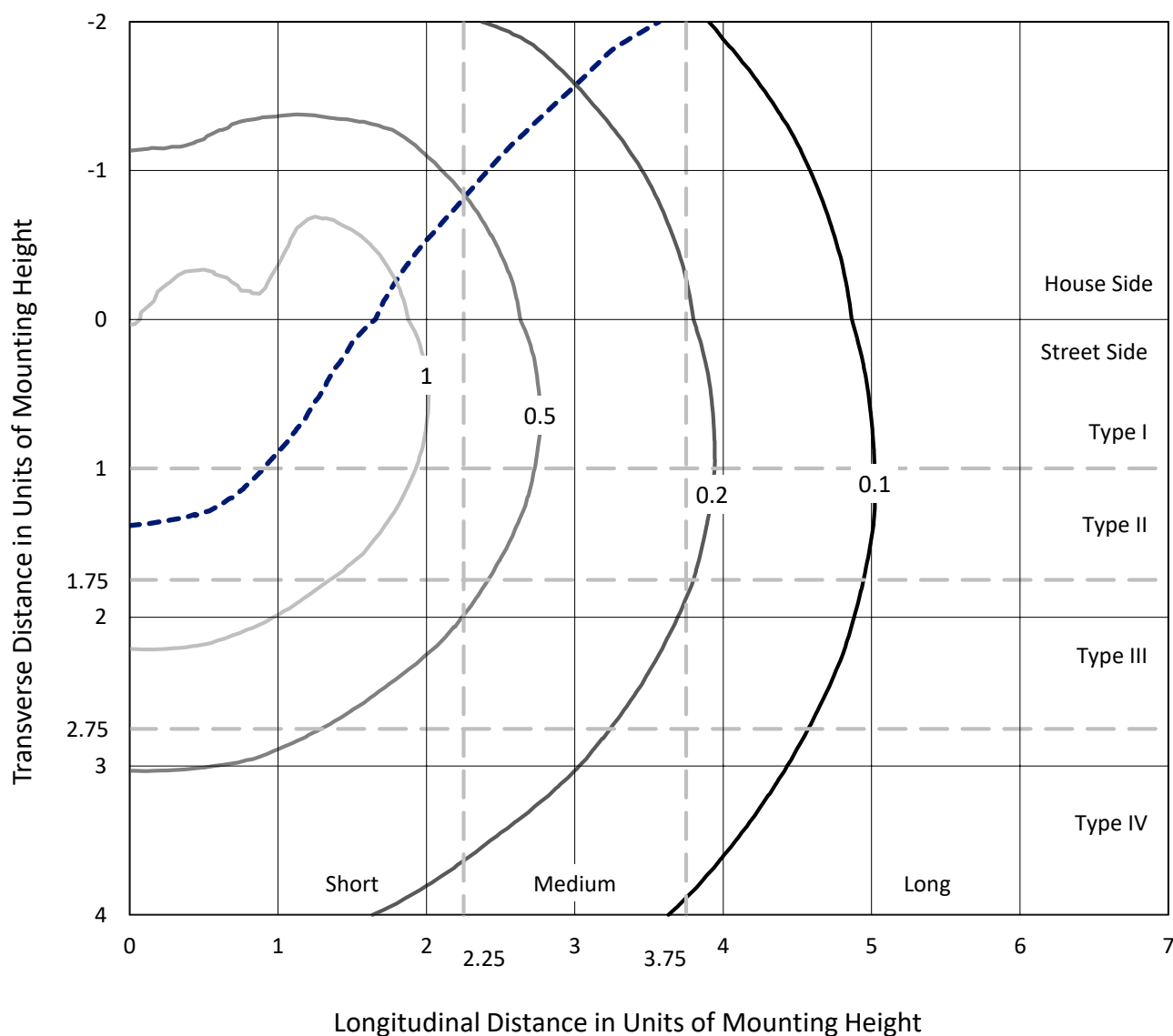
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

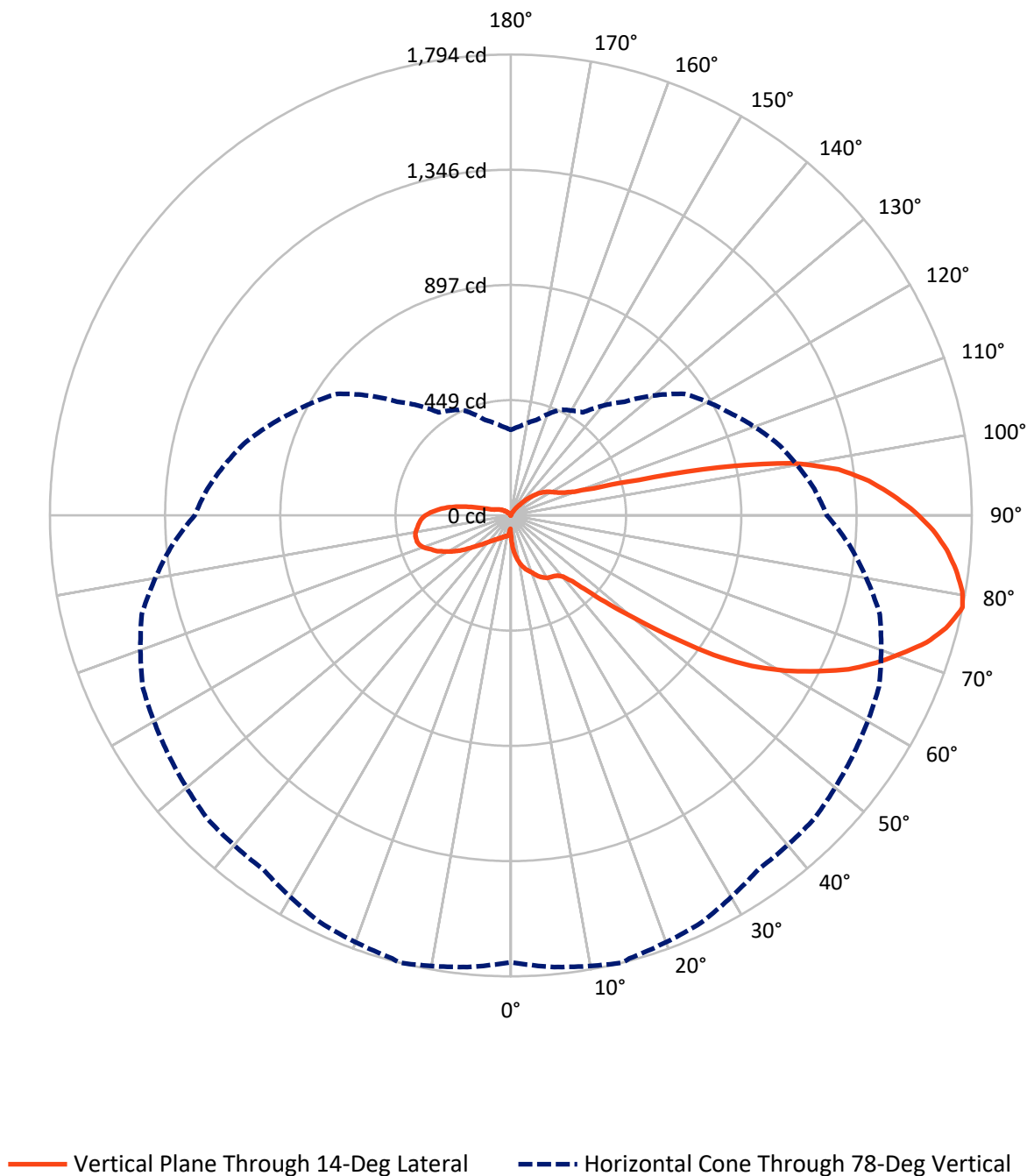


Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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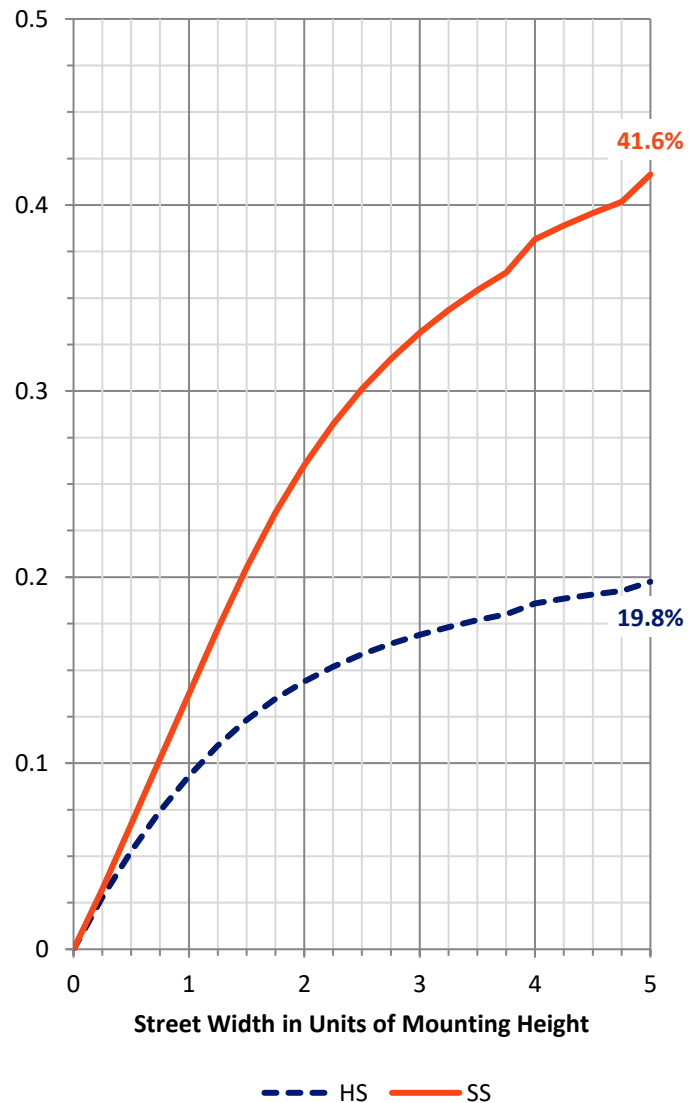
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1395.8	512.3	1908.0
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	3110.0	1203.1	4313.0
	% Fixture	50.0	19.3	69.3
Total	Lumens	4505.7	1715.4	6221.1
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.2
10°-20°	44.1	0.7
20°-30°	87.1	1.4
30°-40°	132.9	2.1
40°-50°	251.9	4.0
50°-60°	607.1	9.8
60°-70°	962.8	15.5
70°-80°	1203.8	19.4
80°-90°	1205.1	19.4
90°-100°	988.4	15.9
100°-110°	421.2	6.8
110°-120°	145.4	2.3
120°-130°	97.1	1.6
130°-140°	48.3	0.8
140°-150°	13.9	0.2
150°-160°	0.8	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	4505.7	72.4
0°-180°	6221.1	100.0

Coefficient of Utilization



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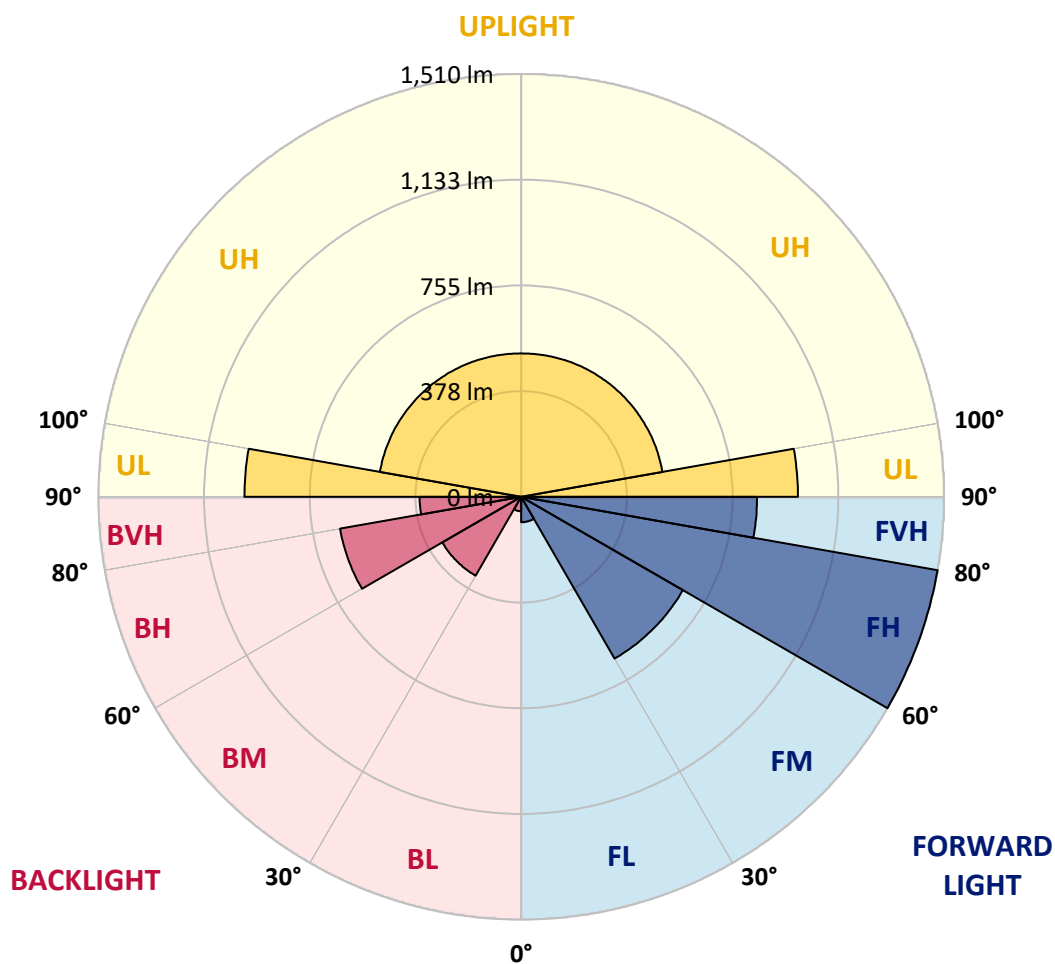
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.7	1.5			
FM	(30°-60°)	666.9	10.7			
FH	(60°-80°)	1510.0	24.3			G1/1800
FVH	(80°-90°)	842.4	13.5			G5
BL	(0°-30°)	51.4	0.8	B0/110		
BM	(30°-60°)	325.1	5.2	B1/1000		
BH	(60°-80°)	656.6	10.6	B2/1000		G2/1000
BVH	(80°-90°)	362.7	5.8			G3/500
UL	(90°-100°)	988.4	15.9		U4/1000	
UH	(100°-180°)	512.3	8.2		U4/1000	

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°	77	77	77	77	77	77	77	77	77	77	77
2.5°	121	120	119	118	117	111	109	105	100	94	89
5°	150	149	147	147	144	140	136	131	123	115	108
7.5°	173	171	170	169	167	162	157	151	144	136	128
10°	190	190	189	189	186	181	174	168	160	150	141
12.5°	206	205	204	204	201	195	188	181	173	163	154
15°	217	217	217	216	212	207	200	194	185	174	165
17.5°	228	228	227	227	222	217	210	204	195	184	174
20°	240	240	238	237	233	229	221	214	205	195	184
22.5°	255	254	252	252	247	240	233	226	217	206	195
25°	267	267	265	264	260	254	246	236	227	216	206
27.5°	278	277	274	273	269	263	255	246	235	224	213
30°	287	285	282	282	277	270	262	253	240	230	219
32.5°	291	290	286	285	280	273	265	255	244	233	223
35°	295	294	290	289	283	275	266	257	245	236	225
37.5°	302	302	297	296	290	284	275	266	256	244	232
40°	317	316	313	311	306	304	296	287	277	268	250
42.5°	350	351	351	349	344	347	342	335	323	311	288
45°	410	421	418	416	410	420	417	414	397	379	347
47.5°	502	517	520	512	506	514	526	520	497	475	435
50°	622	638	634	632	620	643	659	656	629	602	540
52.5°	772	780	788	779	768	798	833	829	802	761	683
55°	943	951	959	948	932	967	1013	1004	976	909	819
57.5°	1093	1108	1105	1101	1068	1103	1140	1131	1097	1021	918
60°	1206	1215	1227	1223	1205	1212	1250	1228	1187	1103	992
62.5°	1308	1320	1336	1332	1318	1307	1337	1308	1266	1183	1060
65°	1409	1423	1445	1439	1421	1396	1425	1395	1348	1258	1122
67.5°	1491	1506	1532	1529	1517	1488	1496	1459	1410	1316	1173
70°	1575	1592	1611	1615	1582	1556	1563	1522	1479	1386	1232
72.5°	1648	1656	1692	1700	1656	1611	1619	1572	1525	1422	1273
75°	1713	1722	1750	1751	1701	1659	1661	1622	1580	1477	1311
77.5°	1741	1758	1788	1779	1745	1681	1688	1649	1599	1486	1316
78°	1739	1764	1794	1785	1750	1681	1670	1626	1581	1487	1323
80°	1732	1763	1782	1773	1742	1663	1649	1612	1570	1475	1303
82.5°	1692	1726	1746	1739	1716	1633	1626	1611	1573	1470	1289
85°	1657	1691	1702	1697	1672	1594	1590	1563	1512	1416	1245
87.5°	1610	1639	1644	1645	1616	1537	1531	1509	1472	1384	1215
90°	1537	1562	1573	1573	1549	1476	1477	1470	1436	1342	1173
92.5°	1454	1478	1489	1488	1467	1403	1403	1390	1346	1264	1106
95°	1366	1384	1400	1399	1371	1311	1309	1308	1266	1186	1041
97.5°	1256	1266	1288	1285	1259	1214	1216	1220	1182	1107	967
100°	1087	1086	1114	1108	1092	1063	1076	1082	1050	985	867
102.5°	809	808	832	826	827	816	837	847	827	777	681
105°	507	503	517	513	508	494	497	493	482	452	397
107.5°	336	333	340	342	333	323	320	316	304	286	255



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	260	260	264	262	258	253	249	247	238	226	203
112.5°	223	223	227	226	223	218	217	215	209	199	181
115°	203	203	206	206	203	198	197	196	192	183	167
117.5°	190	189	192	192	188	185	185	184	181	172	158
120°	178	178	180	180	177	175	176	175	172	163	149
122.5°	167	167	169	168	166	166	166	166	163	155	141
125°	153	153	155	155	153	154	155	155	153	145	132
127.5°	138	138	140	140	139	141	144	143	141	134	122
130°	121	121	123	124	124	127	129	129	127	121	109
132.5°	103	102	104	105	107	110	111	111	110	104	94
135°	83	83	86	87	89	91	92	93	92	87	78
137.5°	64	64	67	68	70	71	71	73	71	68	61
140°	50	50	52	53	55	55	54	54	53	51	45
142.5°	40	39	42	42	43	44	43	43	42	40	36
145°	30	30	31	32	32	33	33	33	32	31	27
147.5°	20	20	22	22	23	24	24	24	23	22	19
150°	10	10	11	12	13	13	14	15	14	13	11
152.5°	0	0	1	1	2	3	4	4	4	4	4
155°	0	0	0	0	0	0	0	0	1	1	1
157.5°	0	0	0	0	0	1	0	0	1	1	1
160°	0	0	0	0	0	1	0	1	1	1	1
162.5°	0	0	0	0	0	1	1	1	1	1	1
165°	0	0	0	0	0	1	1	1	1	1	1
167.5°	0	0	0	0	0	1	1	1	1	1	1
170°	0	0	0	0	1	1	1	1	1	1	1
172.5°	0	0	0	0	1	1	1	1	1	1	1
175°	0	0	0	0	1	1	1	1	1	1	1
177.5°	0	0	0	0	1	1	1	1	1	1	1
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°	77	77	77	77	77	77	77	77	77	77	77
2.5°	86	82	77	72	67	62	58	54	52	50	50
5°	104	100	93	86	79	74	70	67	65	65	66
7.5°	124	120	110	100	93	87	82	79	76	74	74
10°	137	131	122	113	105	97	91	86	81	78	77
12.5°	148	143	132	122	113	103	96	89	83	79	78
15°	158	152	141	130	119	108	99	91	85	80	80
17.5°	168	162	150	138	125	113	102	94	87	83	82
20°	178	171	159	146	131	118	106	97	90	87	86
22.5°	188	181	168	154	138	123	110	100	93	91	91
25°	198	190	176	161	144	129	115	104	97	95	96
27.5°	205	198	183	167	150	134	119	108	101	100	100
30°	212	204	188	172	155	139	124	112	106	105	106
32.5°	216	208	191	176	159	142	128	116	110	111	111
35°	218	210	195	179	162	146	132	121	117	117	117
37.5°	224	216	200	184	168	152	138	127	124	125	124
40°	239	231	213	195	178	161	146	135	133	134	133
42.5°	275	266	240	216	195	175	157	146	144	144	145
45°	328	316	287	251	224	197	174	160	157	156	155
47.5°	406	388	352	306	265	230	196	177	171	169	167
50°	508	488	435	375	329	273	226	199	188	182	180
52.5°	634	614	543	469	403	329	267	226	210	198	195
55°	761	740	661	560	487	387	312	258	235	216	214
57.5°	852	825	740	637	557	439	346	286	257	235	230
60°	914	886	803	690	611	479	374	310	280	256	252
62.5°	975	947	853	737	654	504	398	331	301	276	276
65°	1032	1002	900	785	696	528	420	352	324	300	305
67.5°	1079	1049	943	832	730	554	436	381	339	321	320
70°	1134	1099	988	872	772	587	452	404	361	342	326
72.5°	1171	1127	1026	903	791	606	469	432	376	344	333
75°	1211	1171	1062	929	825	623	479	444	383	345	332
77.5°	1218	1176	1070	934	822	632	492	450	383	346	334
78°	1230	1186	1076	942	825	626	489	454	384	346	333
80°	1212	1173	1065	929	815	620	488	455	382	342	328
82.5°	1192	1157	1044	914	802	611	481	439	373	330	317
85°	1151	1125	1022	891	777	590	474	435	365	319	307
87.5°	1120	1096	992	876	763	573	460	424	356	309	297
90°	1076	1048	944	828	722	549	444	402	341	297	285
92.5°	1017	994	895	782	683	514	416	379	317	280	267
95°	956	935	840	739	645	483	388	352	287	258	244
97.5°	886	867	777	678	588	443	350	317	253	226	217
100°	786	768	681	591	509	382	292	264	210	187	179
102.5°	606	591	516	444	374	278	207	190	159	139	133
105°	356	347	307	265	222	171	130	127	109	100	95
107.5°	231	224	201	177	151	120	96	91	81	77	75



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	189	183	165	145	125	99	82	76	68	65	64
112.5°	168	163	147	129	112	89	74	68	61	58	57
115°	156	150	135	119	104	83	69	63	56	52	52
117.5°	146	140	127	112	97	77	64	57	51	47	46
120°	139	133	120	105	91	72	60	52	45	41	40
122.5°	131	125	112	98	83	66	54	46	40	36	35
125°	123	117	104	90	75	59	48	40	34	31	30
127.5°	114	108	95	81	67	52	42	35	29	26	25
130°	102	96	84	71	58	45	36	29	25	22	21
132.5°	88	82	71	60	49	38	29	24	20	18	17
135°	73	68	59	49	40	31	24	20	16	14	14
137.5°	57	53	45	38	31	24	18	15	13	11	11
140°	43	40	34	29	23	18	14	12	10	8	8
142.5°	33	31	26	22	18	13	10	8	7	6	6
145°	25	23	19	16	13	9	7	5	4	4	3
147.5°	17	16	13	10	8	5	4	3	2	2	1
150°	9	8	6	5	3	2	2	1	0	0	0
152.5°	3	3	2	1	1	0	0	0	0	0	0
155°	1	1	1	0	0	0	0	0	0	0	0
157.5°	1	1	1	0	0	0	0	0	0	0	0
160°	1	1	1	0	0	0	0	0	0	0	0
162.5°	1	1	1	0	0	0	0	0	0	0	0
165°	1	1	1	1	0	0	0	0	0	0	0
167.5°	1	1	1	1	0	0	0	0	0	0	0
170°	1	1	1	1	1	0	0	0	0	0	0
172.5°	1	1	1	1	1	0	0	0	0	0	0
175°	1	1	1	1	1	0	0	0	0	0	0
177.5°	1	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)