

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: P314629

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A7-D-U-SYM
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 4000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6504 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U5 - G4

Input Watts (W): 68.7
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

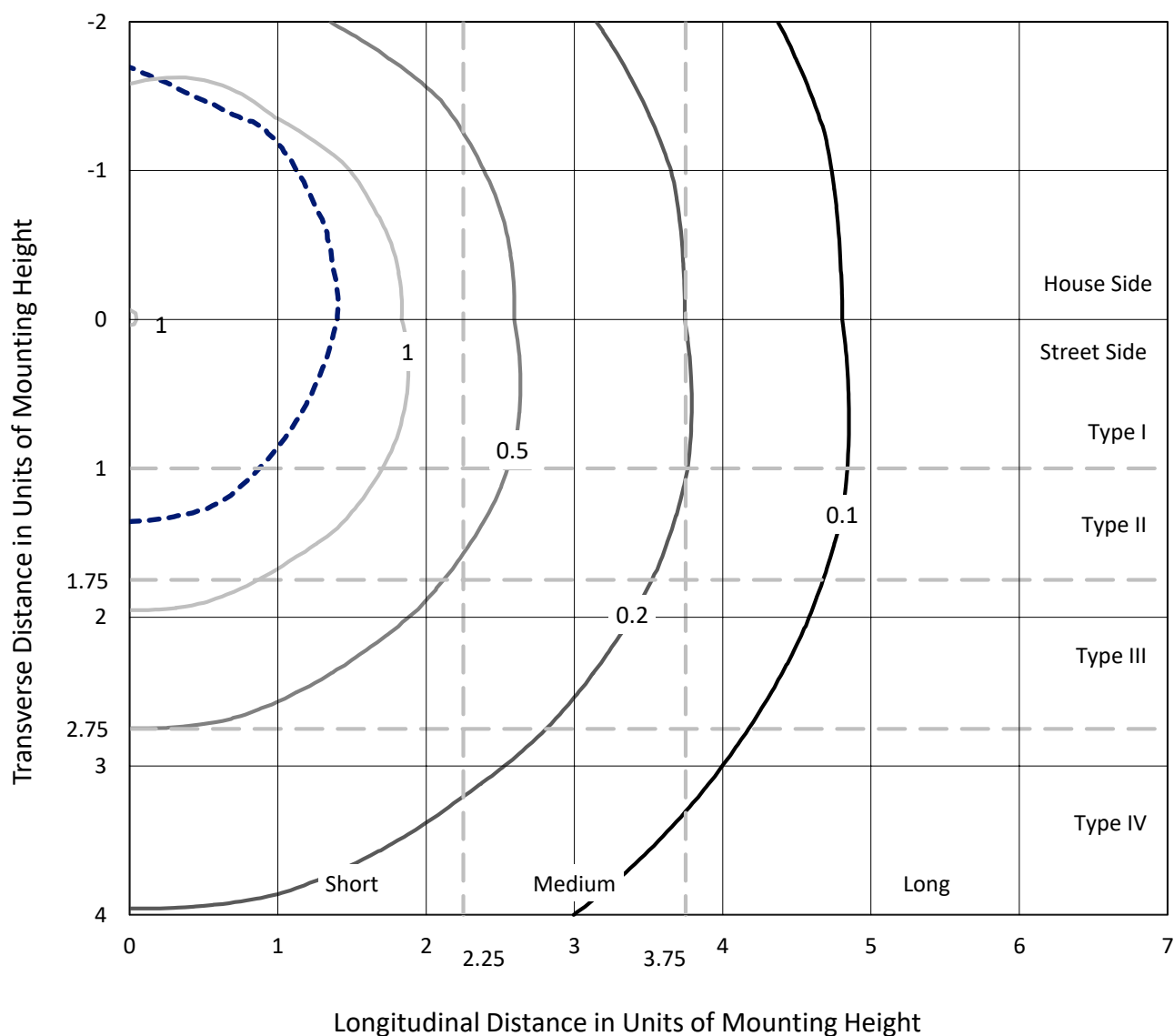


REPORT NUMBER: P314629

CATALOG NUMBER: MPB-A7-D-U-SYM

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

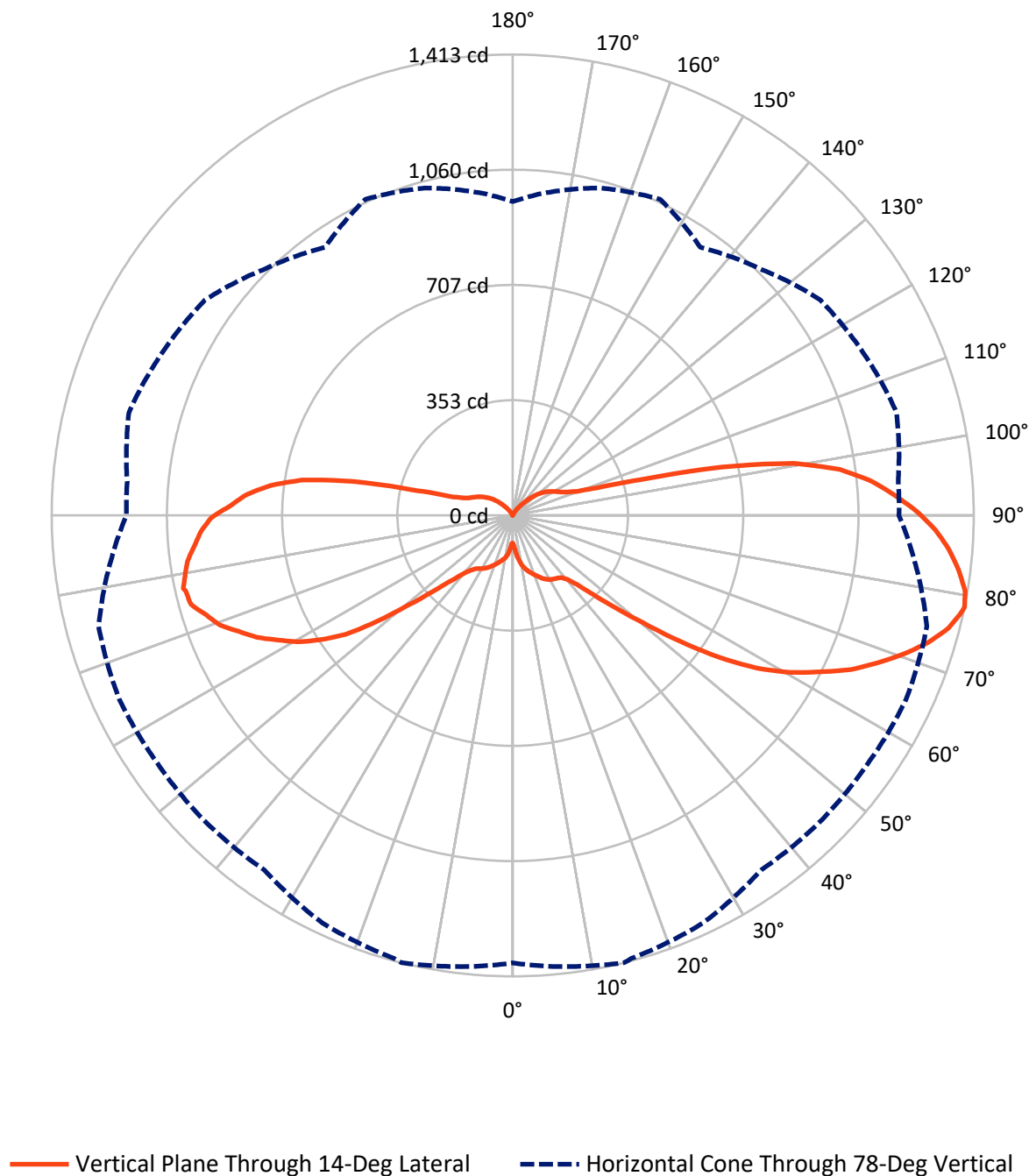


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P314629

CATALOG NUMBER: MPB-A7-D-U-SYM

Luminous Intensity Polar Plot



REPORT NUMBER: P314629

CATALOG NUMBER: MPB-A7-D-U-SYM

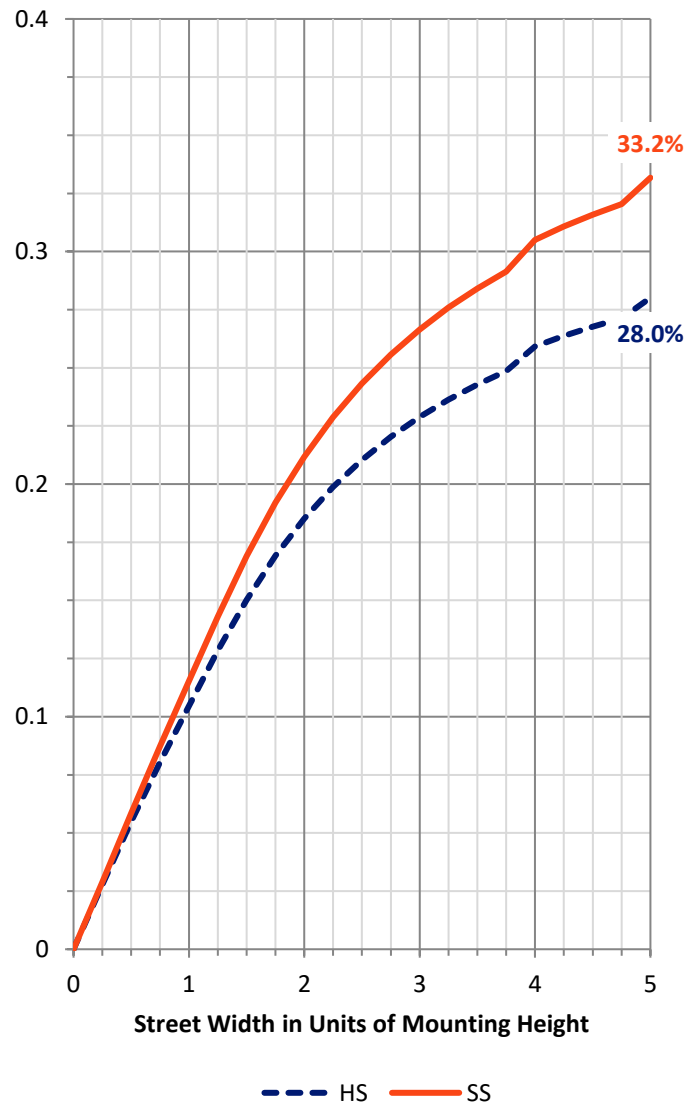
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2137.9	806.3	2944.2
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	2573.3	986.5	3559.8
	% Fixture	39.6	15.2	54.7
Total	Lumens	4711.2	1792.8	6504.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.2
10°-20°	46.4	0.7
20°-30°	91.0	1.4
30°-40°	139.1	2.1
40°-50°	263.8	4.1
50°-60°	636.2	9.8
60°-70°	1006.9	15.5
70°-80°	1257.5	19.3
80°-90°	1258.7	19.4
90°-100°	1034.3	15.9
100°-110°	438.0	6.7
110°-120°	152.6	2.3
120°-130°	101.7	1.6
130°-140°	50.7	0.8
140°-150°	14.9	0.2
150°-160°	0.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4711.2	72.4
0°-180°	6504.0	100.0

Coefficient of Utilization



REPORT NUMBER: P314629

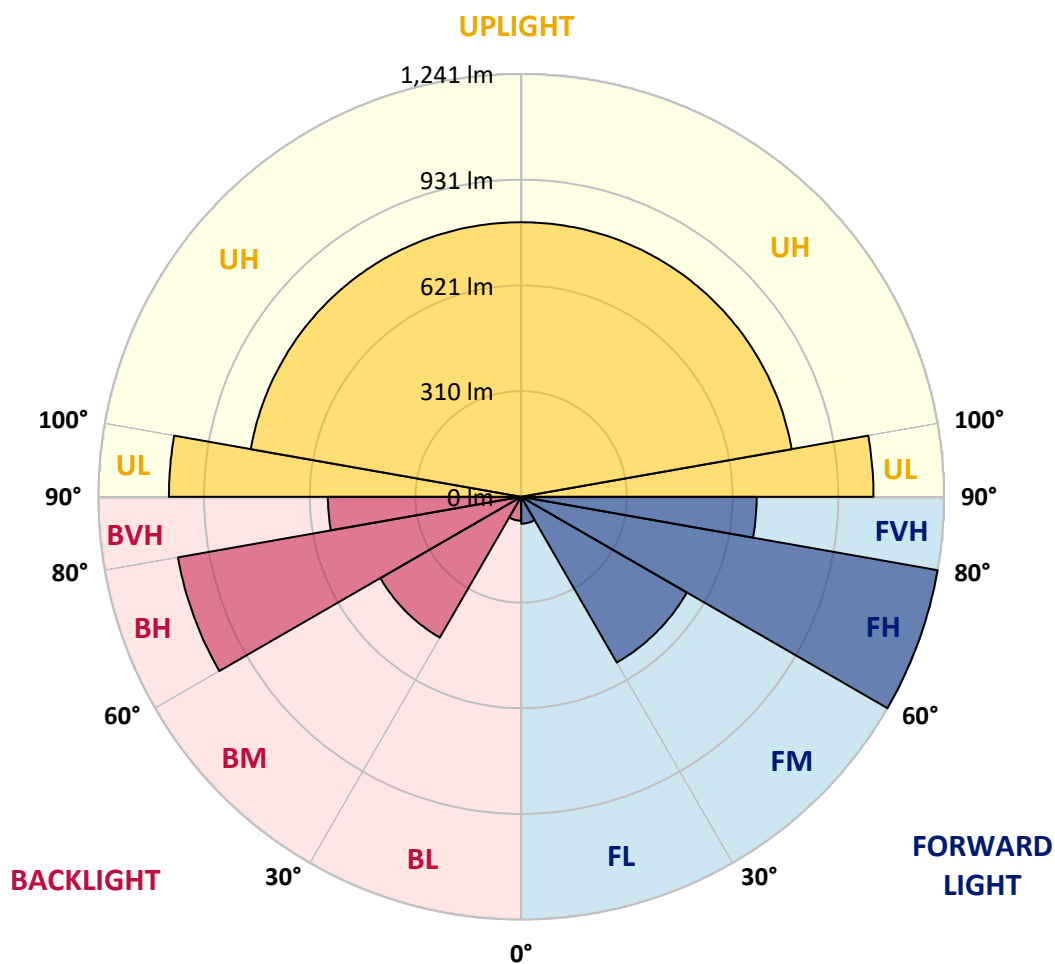
CATALOG NUMBER: MPB-A7-D-U-SYM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.9	1.2			
FM	(30°-60°)	561.8	8.6			
FH	(60°-80°)	1241.3	19.1			G1/1800
FVH	(80°-90°)	691.3	10.6			G4/750
BL	(0°-30°)	70.1	1.1	B0/110		
BM	(30°-60°)	477.3	7.3	B1/1000		
BH	(60°-80°)	1023.0	15.7	B3/2500		G3/2500
BVH	(80°-90°)	567.4	8.7			G4/750
UL	(90°-100°)	1034.3	15.9		U5	
UH	(100°-180°)	806.3	12.4		U4/1000	

BUG Rating: B3-U5-G4

Type IV Short





REPORT NUMBER: P314629

CATALOG NUMBER: MPB-A7-D-U-SYM

CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	85	85	85	85	85	85	85	85	85	85	85
2.5°	96	97	97	98	96	96	95	94	93	92	91
5°	120	120	120	120	118	119	118	116	114	114	112
7.5°	139	139	139	139	138	138	137	136	134	133	132
10°	153	154	155	155	154	153	151	150	149	147	144
12.5°	166	167	167	167	166	165	163	161	160	158	156
15°	177	177	177	176	175	174	172	171	169	167	165
17.5°	185	186	186	185	183	183	180	180	178	176	174
20°	195	195	195	194	193	192	189	188	187	185	183
22.5°	205	205	204	204	202	201	199	198	196	194	193
25°	216	216	214	214	212	210	208	207	205	204	203
27.5°	224	224	222	221	220	217	216	214	212	211	210
30°	231	230	228	228	226	223	221	219	217	217	217
32.5°	235	234	232	231	228	226	224	222	220	221	221
35°	239	239	236	235	232	229	226	224	223	224	225
37.5°	246	245	242	241	237	236	234	233	232	233	233
40°	261	261	258	257	254	255	254	255	253	255	252
42.5°	290	292	289	287	285	289	293	292	290	291	284
45°	341	345	346	343	337	348	354	355	350	347	336
47.5°	418	424	421	421	411	427	435	440	432	427	409
50°	515	525	515	519	501	529	542	545	538	527	504
52.5°	635	643	640	637	618	655	678	690	678	662	627
55°	771	770	768	771	753	783	818	825	821	788	748
57.5°	883	884	884	884	862	888	920	925	919	890	837
60°	970	973	977	979	958	970	1004	1003	997	961	916
62.5°	1044	1049	1057	1057	1044	1041	1072	1068	1065	1031	979
65°	1118	1123	1139	1138	1123	1109	1143	1140	1133	1099	1037
67.5°	1181	1188	1206	1208	1197	1180	1201	1193	1189	1153	1085
70°	1248	1258	1272	1272	1246	1233	1252	1247	1252	1216	1138
72.5°	1299	1303	1332	1335	1305	1276	1298	1286	1290	1251	1174
75°	1352	1357	1380	1380	1339	1313	1329	1324	1331	1299	1209
77.5°	1372	1385	1409	1404	1375	1330	1347	1345	1349	1309	1221
78°	1372	1388	1413	1406	1379	1327	1330	1328	1331	1314	1227
80°	1368	1391	1406	1397	1374	1316	1314	1315	1321	1303	1211
82.5°	1337	1361	1377	1373	1353	1290	1300	1311	1324	1292	1199
85°	1309	1334	1342	1339	1316	1251	1259	1274	1268	1245	1162
87.5°	1272	1294	1297	1295	1275	1213	1219	1229	1235	1222	1131
90°	1213	1233	1240	1240	1219	1166	1180	1194	1205	1180	1090
92.5°	1148	1166	1173	1173	1155	1103	1112	1130	1132	1112	1029
95°	1079	1090	1103	1101	1079	1028	1037	1059	1062	1044	970
97.5°	992	996	1012	1009	987	950	963	983	985	967	895
100°	863	862	876	876	855	832	850	875	872	854	793
102.5°	649	637	657	655	649	640	658	682	688	675	613
105°	412	405	411	407	404	387	394	402	396	401	367
107.5°	272	268	272	271	265	257	256	258	257	253	234



REPORT NUMBER: P314629

CATALOG NUMBER: MPB-A7-D-U-SYM

CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	209	207	210	209	206	202	201	203	203	200	189
112.5°	181	180	183	182	180	177	177	178	179	176	168
115°	163	164	166	166	164	160	161	163	163	161	155
117.5°	152	153	155	154	152	150	150	152	154	151	146
120°	143	143	145	144	142	141	142	144	145	142	137
122.5°	133	134	135	135	133	133	135	136	137	134	128
125°	122	123	124	124	123	124	125	126	128	125	119
127.5°	110	111	112	112	112	113	115	116	118	115	109
130°	96	97	99	98	99	101	104	104	105	103	97
132.5°	81	82	84	84	85	88	90	90	91	89	84
135°	65	66	69	69	71	73	75	75	76	74	69
137.5°	51	51	54	54	56	57	58	58	59	58	54
140°	40	40	43	42	44	44	44	44	45	44	41
142.5°	31	32	34	33	35	35	35	34	36	35	32
145°	24	24	26	25	26	27	27	26	27	26	24
147.5°	16	16	18	17	18	19	20	19	20	19	17
150°	8	8	10	9	10	11	12	12	12	11	9
152.5°	0	0	1	1	1	2	2	2	3	3	2
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	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	1	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	1	0	0	0	1	1
177.5°	0	0	0	0	0	1	0	0	0	0	1
180°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P314629

CATALOG NUMBER: MPB-A7-D-U-SYM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	85	85	85	85	85	85	85	85	85	85	85
2.5°	90	90	91	90	89	88	87	86	86	84	85
5°	112	111	110	108	107	106	105	104	104	104	105
7.5°	131	130	127	124	124	123	122	121	120	118	118
10°	143	142	140	139	137	136	135	133	131	127	127
12.5°	154	153	150	149	148	146	144	142	138	135	134
15°	164	162	159	158	156	153	151	149	145	141	140
17.5°	172	170	168	166	163	160	157	155	152	149	148
20°	181	179	177	174	171	168	165	162	160	157	157
22.5°	191	189	186	184	179	176	172	169	167	166	165
25°	201	199	195	192	187	183	180	176	174	175	175
27.5°	209	206	202	199	194	190	186	183	181	182	182
30°	215	213	209	205	200	195	192	188	187	188	189
32.5°	220	218	213	210	205	200	196	193	192	193	193
35°	224	223	218	213	209	204	201	198	198	200	199
37.5°	231	230	225	220	216	212	210	208	209	210	210
40°	249	243	239	233	229	227	225	225	226	227	227
42.5°	279	274	268	260	256	253	250	253	255	254	254
45°	327	321	312	300	293	289	289	293	295	292	290
47.5°	397	388	377	363	352	348	345	352	353	346	340
50°	486	478	464	449	439	428	419	429	429	414	408
52.5°	608	593	578	561	545	528	516	533	530	508	497
55°	727	719	709	680	665	634	620	638	630	599	591
57.5°	810	815	806	783	763	726	701	715	702	671	651
60°	878	883	880	854	841	794	760	777	767	731	712
62.5°	938	945	945	918	907	844	809	829	817	782	768
65°	996	1001	1004	977	964	891	851	877	872	836	829
67.5°	1043	1052	1059	1034	1014	942	890	931	914	885	864
70°	1095	1101	1112	1090	1071	990	924	980	962	929	901
72.5°	1131	1134	1158	1134	1103	1029	961	1023	992	948	923
75°	1164	1169	1200	1169	1146	1063	985	1057	1028	977	951
77.5°	1175	1178	1211	1177	1145	1069	1001	1065	1034	983	957
78°	1184	1186	1218	1184	1151	1070	1003	1069	1039	990	962
80°	1167	1174	1203	1173	1139	1060	991	1061	1027	972	947
82.5°	1150	1155	1179	1148	1118	1044	975	1042	1012	954	933
85°	1113	1123	1151	1123	1089	1016	957	1021	986	928	903
87.5°	1083	1095	1120	1100	1066	991	929	996	963	906	882
90°	1040	1049	1070	1047	1015	946	895	956	930	878	856
92.5°	982	991	1012	988	960	891	842	903	869	826	802
95°	925	933	952	933	908	842	796	857	822	780	762
97.5°	853	859	876	855	834	771	728	784	752	718	696
100°	749	751	760	735	726	670	637	685	658	634	613
102.5°	578	559	558	546	532	487	475	501	503	483	471
105°	347	333	330	324	310	288	280	307	304	298	288
107.5°	224	220	220	215	207	194	188	199	195	192	188



REPORT NUMBER: P314629

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	183	181	181	176	172	161	156	163	160	158	154
112.5°	163	161	161	158	154	145	142	148	144	141	139
115°	150	149	148	145	142	134	131	137	134	131	130
117.5°	141	139	139	136	133	126	124	128	125	122	121
120°	132	131	130	128	125	118	116	119	117	114	112
122.5°	124	123	121	119	115	109	108	110	107	104	103
125°	115	113	112	109	105	100	99	100	97	94	93
127.5°	106	103	101	98	94	89	89	90	88	85	84
130°	94	92	89	86	82	78	78	79	77	75	75
132.5°	81	78	76	73	70	67	67	67	66	65	64
135°	67	65	62	60	57	55	55	56	55	53	53
137.5°	52	50	48	47	45	43	43	44	43	42	42
140°	40	38	37	36	34	33	33	33	33	32	32
142.5°	31	30	29	28	27	25	26	26	26	25	25
145°	23	22	21	20	20	19	19	19	19	19	18
147.5°	16	15	14	13	13	13	13	13	13	12	12
150°	9	8	7	6	6	6	6	7	6	6	6
152.5°	2	1	1	1	1	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	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	1	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

(END OF REPORT)