

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: P314593

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A7-D-U-SYM
Description: WOODBRIDGE 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: 6896.1 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type I - Short - Non-Cutoff
BUG Rating: B3 - U5 - G5

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



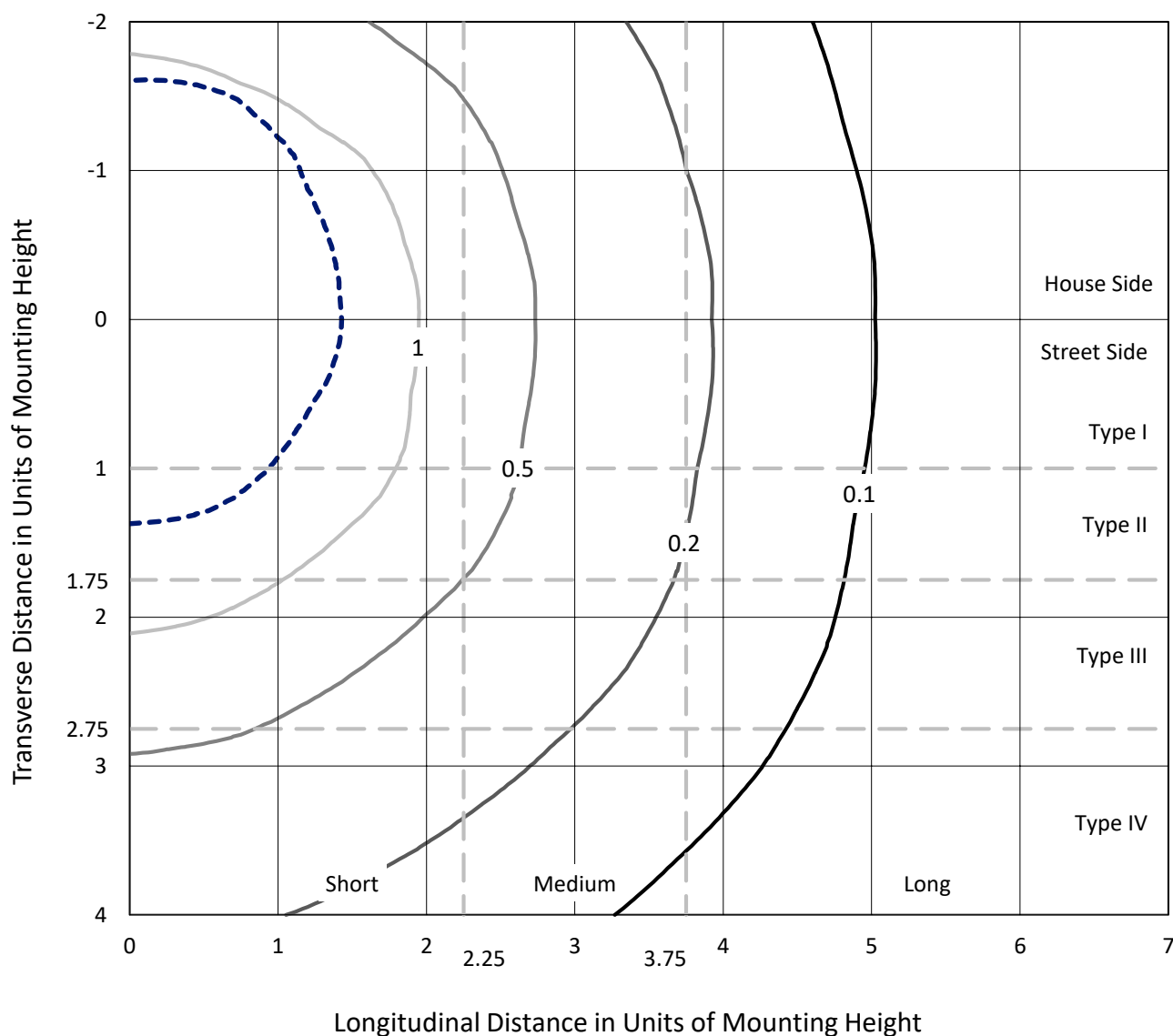
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

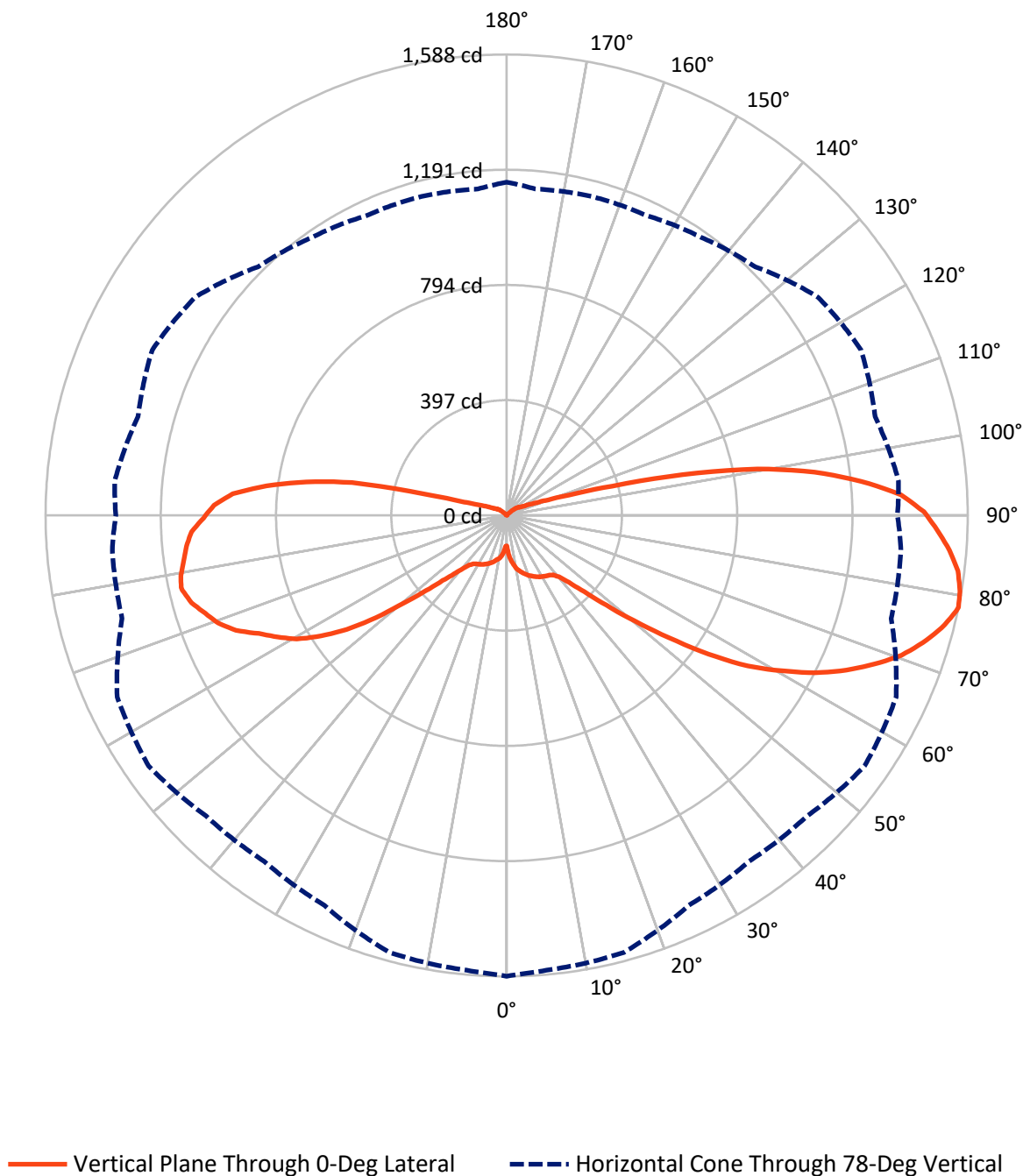


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type I - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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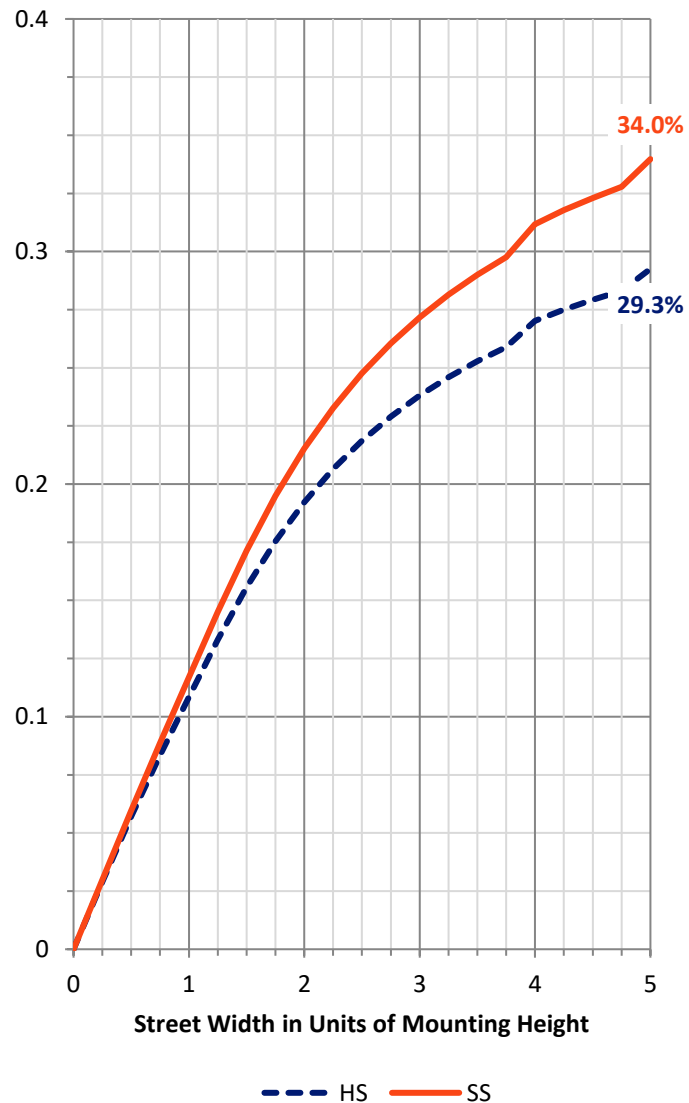
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.2	792.8	3173.0
	% Fixture	34.5	11.5	46.0
Street Side	Lumens	2809.4	913.6	3723.1
	% Fixture	40.7	13.2	54.0
Total	Lumens	5189.6	1706.4	6896.1
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	0.2
10°-20°	52.3	0.8
20°-30°	97.9	1.4
30°-40°	146.6	2.1
40°-50°	287.4	4.2
50°-60°	687.8	10.0
60°-70°	1094.9	15.9
70°-80°	1388.0	20.1
80°-90°	1420.8	20.6
90°-100°	1157.2	16.8
100°-110°	417.9	6.1
110°-120°	85.3	1.2
120°-130°	38.4	0.6
130°-140°	7.7	0.1
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°	5189.6	75.3
0°-180°	6896.1	100.0

Coefficient of Utilization



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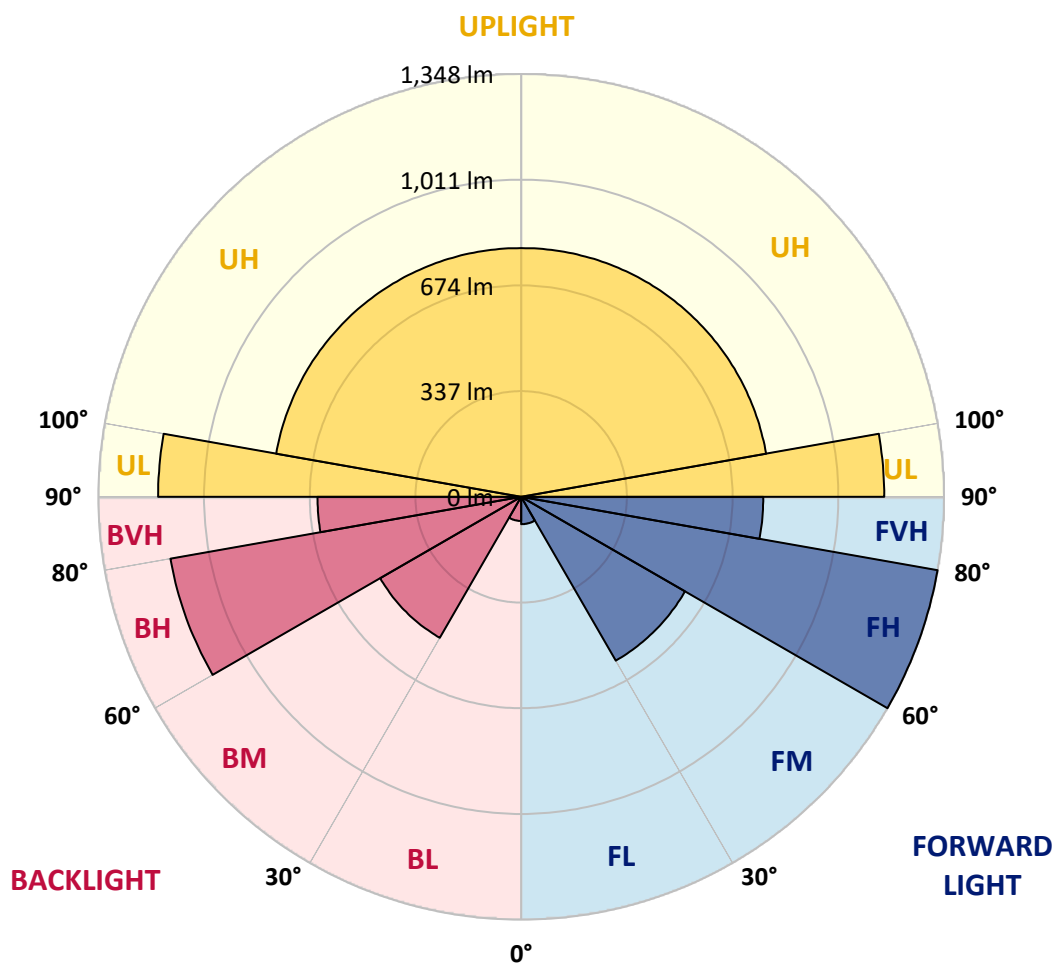
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.3	1.3			
FM	(30°-60°)	603.0	8.7			
FH	(60°-80°)	1347.7	19.5			G1/1800
FVH	(80°-90°)	771.5	11.2			G5
BL	(0°-30°)	76.9	1.1	B0/110		
BM	(30°-60°)	518.8	7.5	B1/1000		
BH	(60°-80°)	1135.2	16.5	B3/2500		G3/2500
BVH	(80°-90°)	649.3	9.4			G4/750
UL	(90°-100°)	1157.2	16.8		U5	
UH	(100°-180°)	792.8	11.5		U4/1000	

BUG Rating: B3-U5-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	105	105	105	105	105	105	105	105	105	105	105
2.5°	134	133	132	130	131	130	128	125	122	119	117
5°	155	154	154	154	154	154	153	150	146	142	137
7.5°	171	170	170	171	171	170	168	166	163	161	157
10°	186	185	185	185	184	182	180	177	173	171	168
12.5°	196	195	195	194	193	191	187	183	181	178	175
15°	205	204	204	202	201	199	195	192	189	187	185
17.5°	213	213	212	210	209	207	204	200	197	195	192
20°	221	220	220	218	216	214	211	208	206	203	200
22.5°	227	227	226	225	223	222	218	216	213	211	208
25°	234	234	234	232	230	229	225	223	221	218	214
27.5°	240	239	240	238	235	234	230	227	225	223	219
30°	244	244	243	242	239	237	234	231	229	226	223
32.5°	249	247	249	245	243	240	237	233	231	228	225
35°	253	252	252	251	247	245	241	238	235	232	229
37.5°	260	260	260	258	256	257	254	250	247	243	238
40°	278	278	278	278	277	280	279	278	277	271	263
42.5°	315	316	315	315	316	322	323	325	322	313	302
45°	375	377	375	378	380	388	387	389	385	377	359
47.5°	462	465	466	460	461	469	474	476	472	454	438
50°	571	574	574	569	564	574	581	585	587	557	539
52.5°	699	703	702	696	686	707	713	732	727	682	662
55°	844	848	847	835	819	828	846	868	862	807	793
57.5°	979	981	981	966	947	941	953	979	969	905	893
60°	1087	1089	1090	1067	1044	1031	1041	1070	1060	986	974
62.5°	1194	1186	1178	1159	1127	1112	1114	1152	1132	1051	1042
65°	1286	1283	1264	1244	1209	1192	1192	1232	1212	1126	1114
67.5°	1367	1367	1345	1326	1279	1259	1255	1303	1278	1190	1175
70°	1443	1441	1416	1403	1345	1316	1321	1370	1348	1255	1244
72.5°	1499	1499	1481	1469	1398	1371	1373	1425	1400	1302	1287
75°	1548	1544	1534	1523	1449	1418	1423	1474	1448	1349	1343
77.5°	1583	1580	1571	1559	1478	1450	1458	1504	1481	1368	1360
78°	1588	1583	1573	1559	1483	1455	1464	1505	1480	1371	1363
80°	1583	1579	1568	1553	1486	1453	1458	1494	1468	1366	1355
82.5°	1566	1563	1553	1535	1468	1440	1445	1479	1456	1350	1355
85°	1530	1523	1515	1497	1439	1407	1411	1444	1418	1314	1311
87.5°	1485	1480	1474	1456	1402	1374	1375	1408	1383	1286	1286
90°	1437	1431	1426	1409	1356	1329	1330	1367	1347	1258	1263
92.5°	1360	1355	1350	1331	1283	1257	1261	1297	1277	1190	1196
95°	1227	1223	1224	1210	1167	1143	1144	1180	1161	1085	1101
97.5°	1071	1069	1063	1058	1020	1005	1001	1040	1031	965	982
100°	878	874	867	865	841	835	838	875	870	813	830
102.5°	622	621	627	616	606	608	620	651	646	597	608
105°	378	379	374	371	363	362	364	373	362	329	331
107.5°	225	226	227	220	214	212	211	214	208	195	195



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	153	153	154	150	145	145	144	147	145	138	138
112.5°	112	113	112	110	107	108	108	110	110	106	106
115°	87	87	87	85	83	83	84	86	87	85	85
117.5°	69	69	69	68	66	66	67	68	70	69	69
120°	58	58	58	57	56	56	57	58	59	58	58
122.5°	52	52	52	51	50	50	50	51	52	52	52
125°	47	47	47	47	45	44	45	46	47	48	48
127.5°	39	39	40	39	38	38	39	39	41	42	42
130°	29	29	30	30	29	28	29	30	32	33	32
132.5°	18	19	19	19	18	18	19	20	22	23	22
135°	2	2	3	2	3	3	3	4	6	7	7
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	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	1	0	0	0	0	0	0	0	0
167.5°	1	0	1	0	0	0	0	0	0	0	0
170°	1	0	1	0	0	0	0	0	0	0	0
172.5°	1	1	1	0	0	0	0	0	0	0	0
175°	1	1	0	0	0	0	0	0	0	0	0
177.5°	1	1	1	0	1	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	105	105	105	105	105	105	105	105	105	105	105
2.5°	116	117	115	114	113	112	111	109	108	108	107
5°	136	135	133	130	129	128	127	126	126	126	126
7.5°	155	153	148	145	144	145	143	142	141	140	140
10°	166	164	161	158	156	156	155	153	151	150	150
12.5°	173	171	169	166	164	163	162	159	156	156	155
15°	183	181	178	175	173	171	170	166	163	162	162
17.5°	191	189	187	184	181	178	176	173	170	169	169
20°	199	197	194	192	188	185	183	180	177	176	175
22.5°	207	205	202	200	196	192	189	186	182	181	180
25°	213	211	209	206	202	198	194	190	188	186	185
27.5°	218	217	215	212	207	203	199	195	192	190	190
30°	222	221	219	216	212	208	204	200	196	194	193
32.5°	225	223	222	219	216	212	208	204	200	198	197
35°	228	227	225	223	219	216	212	209	205	204	203
37.5°	237	236	234	230	227	224	221	218	216	215	214
40°	263	259	255	251	245	241	238	237	236	236	237
42.5°	298	296	293	286	278	272	269	270	269	269	271
45°	354	350	346	340	326	316	313	311	313	312	314
47.5°	427	430	416	409	394	379	377	371	375	377	380
50°	528	531	518	504	487	462	458	451	454	463	462
52.5°	656	657	644	630	609	574	569	561	558	571	572
55°	789	794	774	764	743	694	678	665	666	680	677
57.5°	893	895	877	872	849	789	771	744	753	763	763
60°	972	974	952	955	937	860	844	814	821	828	839
62.5°	1040	1047	1017	1023	1007	922	899	876	884	885	892
65°	1111	1112	1081	1089	1068	985	949	927	938	936	945
67.5°	1172	1174	1141	1159	1134	1046	1011	986	995	988	1013
70°	1235	1241	1194	1211	1190	1096	1057	1033	1036	1028	1060
72.5°	1274	1287	1249	1270	1240	1142	1106	1085	1078	1069	1091
75°	1319	1332	1281	1311	1285	1186	1148	1129	1114	1109	1126
77.5°	1344	1358	1321	1343	1309	1208	1165	1136	1132	1127	1146
78°	1346	1355	1314	1347	1310	1211	1169	1140	1137	1129	1148
80°	1339	1347	1309	1339	1304	1205	1165	1127	1129	1118	1141
82.5°	1335	1344	1306	1326	1301	1197	1164	1119	1119	1101	1123
85°	1292	1303	1272	1296	1270	1171	1143	1095	1095	1081	1108
87.5°	1269	1280	1242	1275	1243	1141	1119	1079	1076	1061	1087
90°	1241	1254	1215	1231	1206	1109	1085	1040	1036	1020	1044
92.5°	1174	1186	1149	1173	1150	1063	1039	1003	996	985	1008
95°	1083	1097	1068	1093	1069	991	973	946	939	932	946
97.5°	965	971	950	973	952	884	869	842	830	828	833
100°	815	819	795	813	798	737	729	716	700	698	700
102.5°	605	588	569	562	560	514	519	526	519	527	544
105°	328	318	311	305	309	283	288	289	283	287	293
107.5°	193	190	187	184	178	169	167	160	160	160	162



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	137	136	133	132	127	121	120	117	115	115	117
112.5°	105	104	102	101	99	92	91	90	90	90	91
115°	84	83	82	80	77	72	73	71	71	72	72
117.5°	68	67	67	65	62	59	59	58	58	58	59
120°	58	57	56	55	52	49	49	48	49	49	49
122.5°	52	51	50	49	46	43	43	42	43	43	43
125°	47	46	45	43	40	38	38	38	38	38	38
127.5°	41	40	38	36	34	32	32	32	33	33	33
130°	32	30	29	27	25	23	24	25	26	26	26
132.5°	22	21	19	17	15	15	15	17	18	18	18
135°	6	6	6	5	5	5	6	8	8	9	9
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	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	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	1	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	1	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)