

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: P314611

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A7-D-U-ASYM
Description: WOODBRIDGE 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: 6591 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U5 - 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

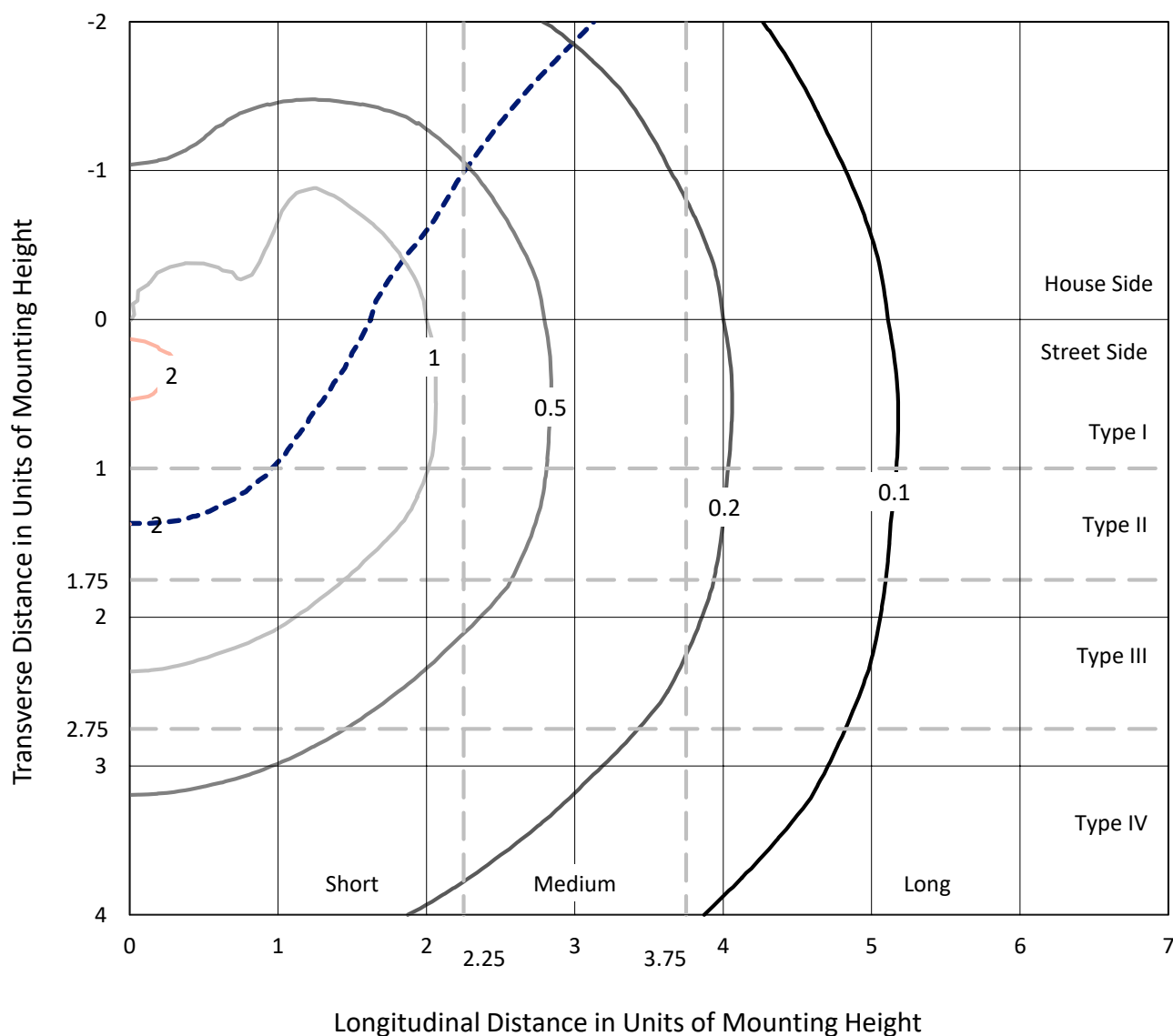


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

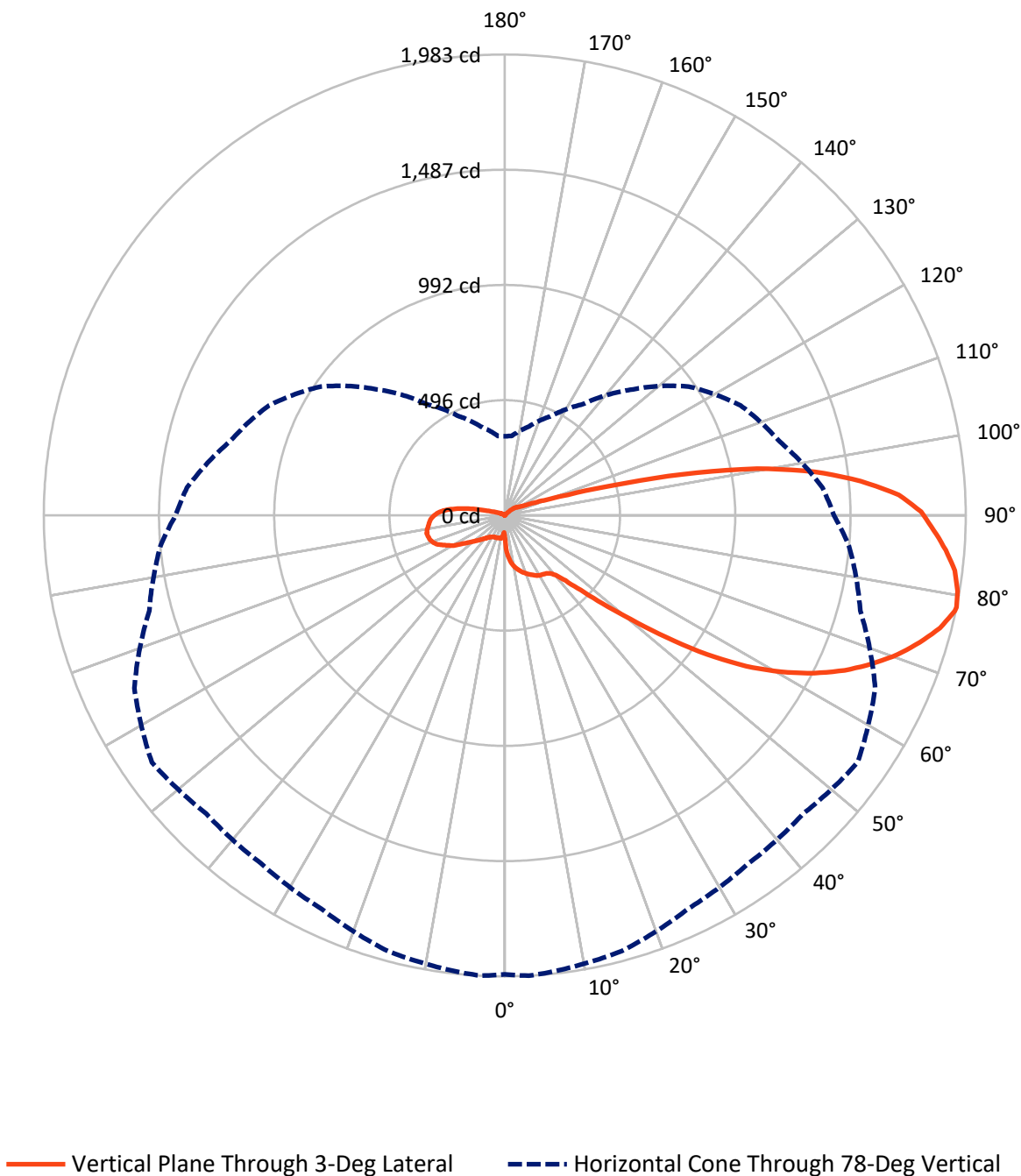


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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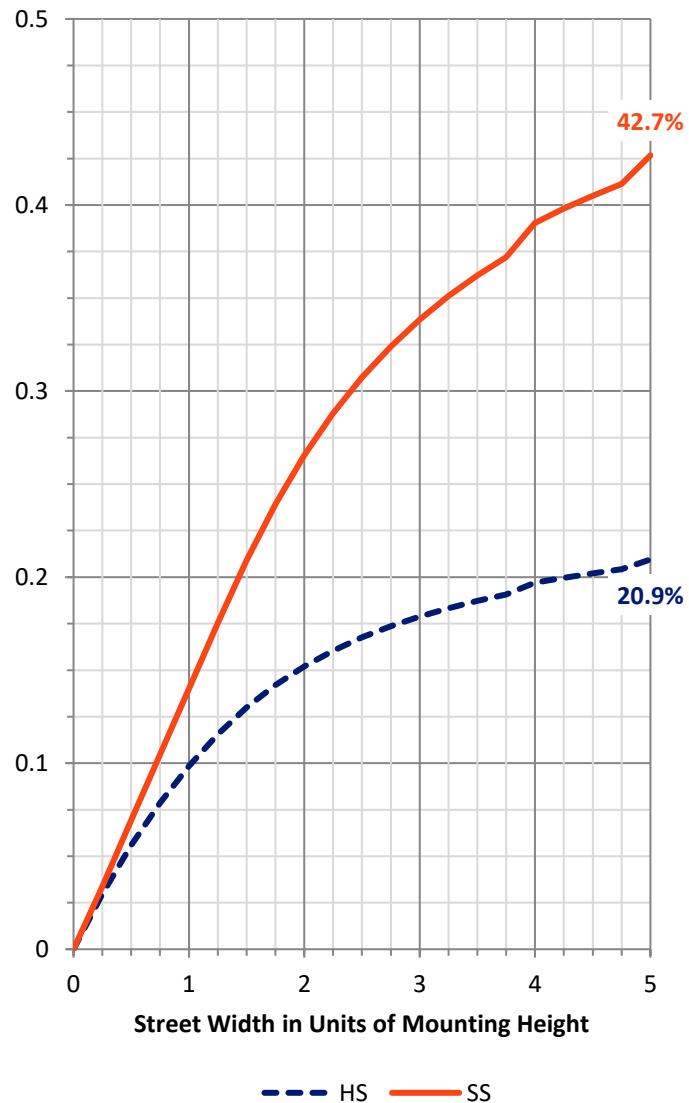
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1574.4	507.6	2082.1
	% Fixture	23.9	7.7	31.6
Street Side	Lumens	3391.3	1117.6	4509.0
	% Fixture	51.5	17.0	68.4
Total	Lumens	4965.7	1625.3	6591.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.2
10°-20°	50.2	0.8
20°-30°	94.0	1.4
30°-40°	139.9	2.1
40°-50°	273.6	4.2
50°-60°	653.9	9.9
60°-70°	1048.2	15.9
70°-80°	1329.7	20.2
80°-90°	1362.9	20.7
90°-100°	1102.2	16.7
100°-110°	399.5	6.1
110°-120°	81.0	1.2
120°-130°	35.8	0.5
130°-140°	6.7	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°	4965.7	75.3
0°-180°	6591.0	100.0

Coefficient of Utilization



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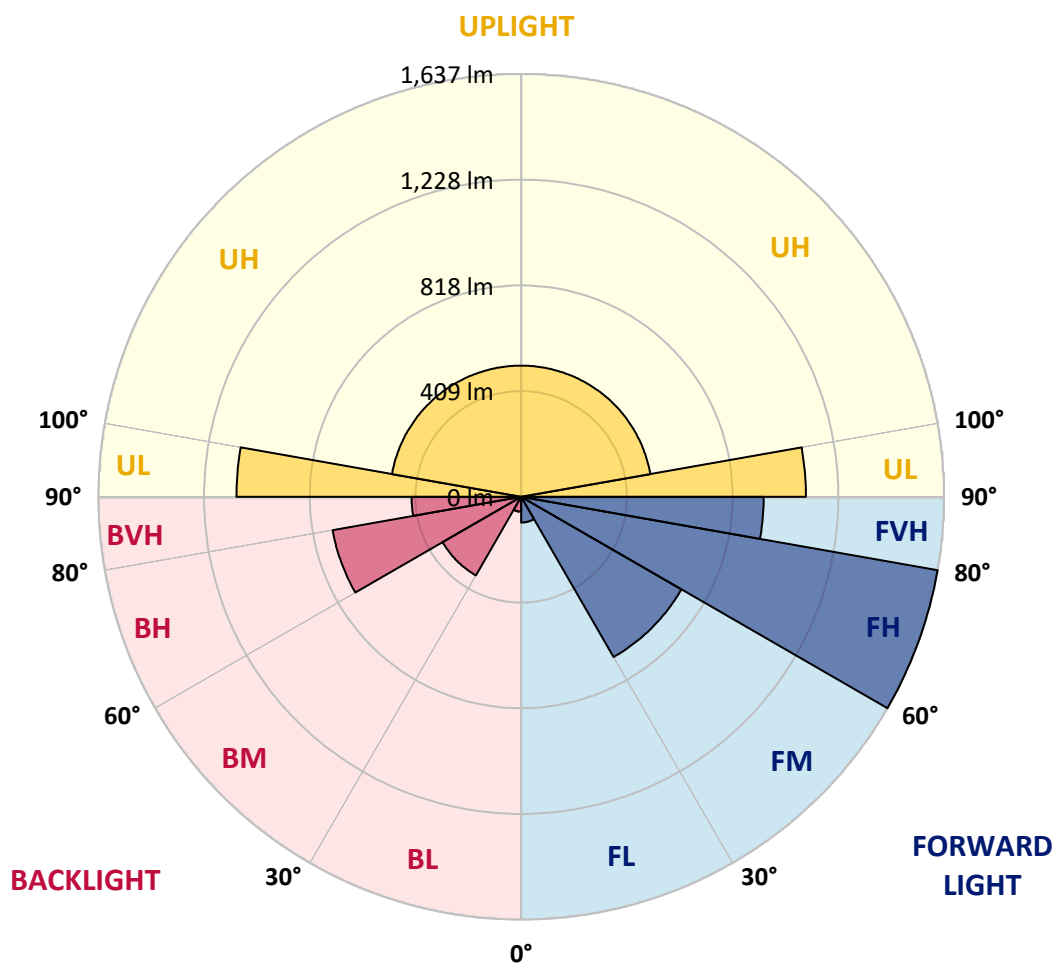
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.8	1.5			
FM	(30°-60°)	716.2	10.9			
FH	(60°-80°)	1636.8	24.8			G1/1800
FVH	(80°-90°)	938.6	14.2			G5
BL	(0°-30°)	57.9	0.9	B0/110		
BM	(30°-60°)	351.1	5.3	B1/1000		
BH	(60°-80°)	741.1	11.2	B2/1000		G2/1000
BVH	(80°-90°)	424.3	6.4			G3/500
UL	(90°-100°)	1102.2	16.7		U5	
UH	(100°-180°)	507.6	7.7		U4/1000	

BUG Rating: B2-U5-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	96	96	96	96	96	96	96	96	96	96	96
2.5°	158	155	155	153	151	145	142	136	129	121	114
5°	186	184	184	183	182	177	172	164	154	144	132
7.5°	207	207	206	205	202	196	190	182	172	163	153
10°	224	224	224	221	217	212	204	195	184	174	163
12.5°	236	236	236	232	228	223	214	205	194	184	173
15°	249	248	249	242	238	233	224	216	205	196	185
17.5°	258	258	257	254	249	243	234	226	216	206	195
20°	267	267	266	263	259	253	245	235	226	216	204
22.5°	275	276	275	272	268	263	256	246	236	225	213
25°	284	284	285	282	277	272	265	256	246	234	220
27.5°	293	293	293	290	284	279	271	263	252	239	225
30°	298	299	298	296	290	284	276	267	256	242	228
32.5°	302	302	302	299	293	287	279	268	257	244	229
35°	307	307	306	303	298	292	283	273	261	248	232
37.5°	316	316	315	312	307	303	295	285	274	261	242
40°	339	338	337	336	332	332	326	317	304	292	268
42.5°	386	383	383	383	381	384	382	373	360	344	315
45°	464	458	458	456	460	461	461	452	436	416	381
47.5°	575	565	567	560	557	567	569	554	545	512	464
50°	714	701	707	696	684	697	703	694	681	638	583
52.5°	874	871	862	848	849	856	861	878	852	797	730
55°	1059	1056	1053	1023	1024	1024	1033	1050	1028	947	881
57.5°	1233	1224	1226	1190	1181	1159	1172	1193	1154	1061	988
60°	1373	1366	1361	1330	1315	1285	1281	1307	1263	1152	1070
62.5°	1497	1495	1488	1444	1432	1389	1381	1406	1350	1226	1143
65°	1615	1607	1586	1550	1534	1483	1482	1510	1449	1312	1218
67.5°	1709	1704	1702	1646	1615	1569	1561	1599	1528	1371	1278
70°	1793	1793	1787	1742	1695	1654	1643	1688	1607	1453	1356
72.5°	1870	1867	1864	1824	1764	1719	1705	1757	1665	1499	1405
75°	1926	1934	1927	1891	1825	1778	1766	1815	1720	1555	1458
77.5°	1968	1979	1972	1936	1862	1819	1808	1850	1754	1580	1487
78°	1975	1983	1977	1941	1867	1828	1815	1853	1758	1583	1486
80°	1971	1975	1973	1943	1864	1827	1807	1844	1750	1572	1474
82.5°	1948	1951	1951	1925	1833	1808	1791	1832	1736	1564	1486
85°	1897	1903	1905	1886	1795	1770	1750	1789	1686	1521	1435
87.5°	1848	1847	1847	1832	1746	1727	1709	1745	1650	1489	1413
90°	1790	1791	1794	1777	1691	1674	1655	1698	1605	1462	1392
92.5°	1694	1697	1696	1682	1603	1589	1572	1610	1524	1383	1318
95°	1532	1538	1536	1526	1465	1442	1426	1469	1390	1264	1211
97.5°	1339	1347	1346	1335	1285	1276	1257	1300	1234	1127	1082
100°	1090	1104	1098	1091	1065	1061	1055	1099	1049	964	924
102.5°	770	784	778	777	766	781	780	823	789	724	691
105°	471	478	473	467	457	467	456	465	441	395	373
107.5°	281	286	283	277	270	271	264	265	251	228	216



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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	189	191	190	184	180	181	178	178	173	161	153
112.5°	139	140	141	135	133	133	133	133	130	123	117
115°	107	108	108	104	102	103	103	104	103	98	94
117.5°	86	86	86	83	81	82	82	83	83	80	77
120°	72	73	73	71	69	69	69	69	70	68	65
122.5°	65	65	65	63	61	60	61	61	61	60	58
125°	59	59	59	57	55	54	55	55	56	55	53
127.5°	50	51	51	49	46	46	47	48	49	49	47
130°	37	38	38	37	34	34	36	37	39	39	37
132.5°	25	24	24	23	21	22	23	25	27	27	26
135°	4	3	3	3	3	3	5	5	7	8	8
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	1	1	0	0	0	0	0
165°	0	1	0	0	1	1	0	0	0	0	0
167.5°	0	0	0	0	1	1	0	0	0	0	0
170°	1	1	1	0	1	1	0	1	1	0	0
172.5°	0	1	0	1	1	1	0	0	0	0	0
175°	1	1	1	1	1	1	1	1	1	1	0
177.5°	1	1	1	1	1	1	1	1	1	1	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°	96	96	96	96	96	96	96	96	96	96	96
2.5°	111	108	101	96	89	85	80	76	74	73	73
5°	128	123	114	108	100	95	91	88	86	86	86
7.5°	148	141	130	120	113	108	104	100	97	96	95
10°	158	153	143	134	124	117	110	105	101	100	99
12.5°	167	161	150	141	130	121	113	106	101	99	98
15°	179	172	160	148	137	126	117	108	102	100	99
17.5°	189	182	169	157	144	132	121	111	104	102	101
20°	198	190	176	164	149	136	123	113	105	102	102
22.5°	206	198	184	170	154	139	126	114	106	103	102
25°	213	205	190	175	158	142	128	116	107	103	102
27.5°	218	210	195	179	162	145	131	118	109	104	104
30°	221	214	198	182	165	148	133	120	111	106	106
32.5°	222	215	200	184	168	151	136	123	114	109	109
35°	224	217	203	187	171	155	140	127	118	114	113
37.5°	233	226	210	193	176	160	145	132	123	119	119
40°	259	249	228	209	188	170	153	139	130	127	126
42.5°	301	291	265	238	212	189	166	149	139	135	135
45°	365	352	317	286	249	218	185	163	151	146	145
47.5°	448	432	390	343	298	258	212	181	165	158	157
50°	559	543	486	421	366	305	245	204	181	171	169
52.5°	700	683	608	524	453	369	284	229	200	187	185
55°	846	827	735	630	554	441	329	264	225	206	202
57.5°	949	928	826	709	636	497	374	298	254	228	226
60°	1024	1002	893	776	692	539	414	326	281	256	255
62.5°	1091	1073	953	836	736	574	450	360	307	278	270
65°	1163	1134	1006	889	785	614	472	391	330	298	291
67.5°	1224	1193	1072	953	832	646	501	419	358	318	316
70°	1300	1265	1120	1002	876	687	530	436	374	335	323
72.5°	1344	1307	1168	1052	908	721	550	444	385	343	331
75°	1394	1354	1193	1089	940	747	568	456	393	346	335
77.5°	1416	1374	1232	1115	968	763	581	467	394	346	343
78°	1416	1372	1225	1119	966	764	583	471	395	343	340
80°	1407	1363	1214	1117	959	762	585	478	391	339	341
82.5°	1409	1371	1210	1111	956	761	580	471	384	331	334
85°	1357	1321	1177	1082	929	751	573	462	380	325	328
87.5°	1342	1305	1151	1063	905	731	562	455	371	318	322
90°	1314	1278	1120	1031	879	705	536	434	357	305	307
92.5°	1242	1209	1059	975	832	673	510	412	337	290	290
95°	1150	1121	980	906	771	619	469	379	308	266	264
97.5°	1023	996	873	804	688	549	410	329	266	225	225
100°	859	848	735	674	572	449	337	264	215	180	177
102.5°	642	619	527	477	404	312	231	183	154	130	125
105°	335	340	283	260	223	180	140	114	97	85	81
107.5°	200	195	171	156	136	111	89	74	64	57	55



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	143	141	123	111	97	79	63	53	46	41	40
112.5°	110	108	95	85	73	59	47	39	34	30	30
115°	89	87	77	67	57	46	37	30	26	23	23
117.5°	73	71	62	55	46	37	29	24	20	18	18
120°	62	60	53	46	38	31	24	19	17	15	15
122.5°	56	53	47	40	33	26	20	16	14	12	12
125°	51	49	43	36	28	23	17	13	11	10	9
127.5°	45	43	37	30	23	18	13	10	7	6	6
130°	36	33	28	22	16	12	9	6	4	4	3
132.5°	25	23	19	14	9	6	4	3	1	1	1
135°	8	7	4	4	1	1	0	0	0	0	0
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	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	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)