

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: INVUE

Report Number: P141560

Luminaire Tested: **ECM-E03-LED-E1-SLR**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141560
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E03-LED-E1-SLR
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7846.6 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 75.2
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: 25 FT

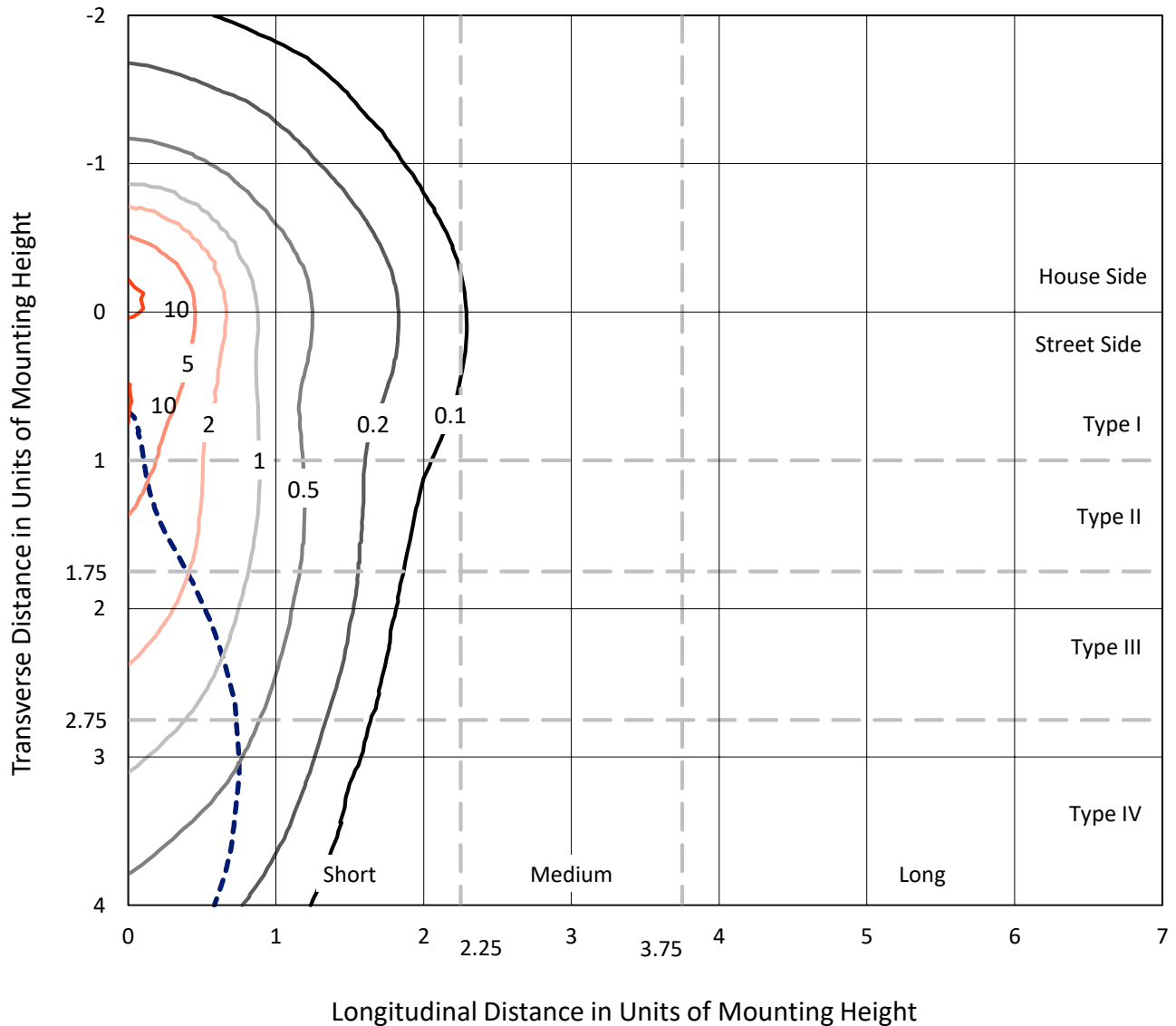


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Iso-Footcandle Lines of Horizontal Illumination

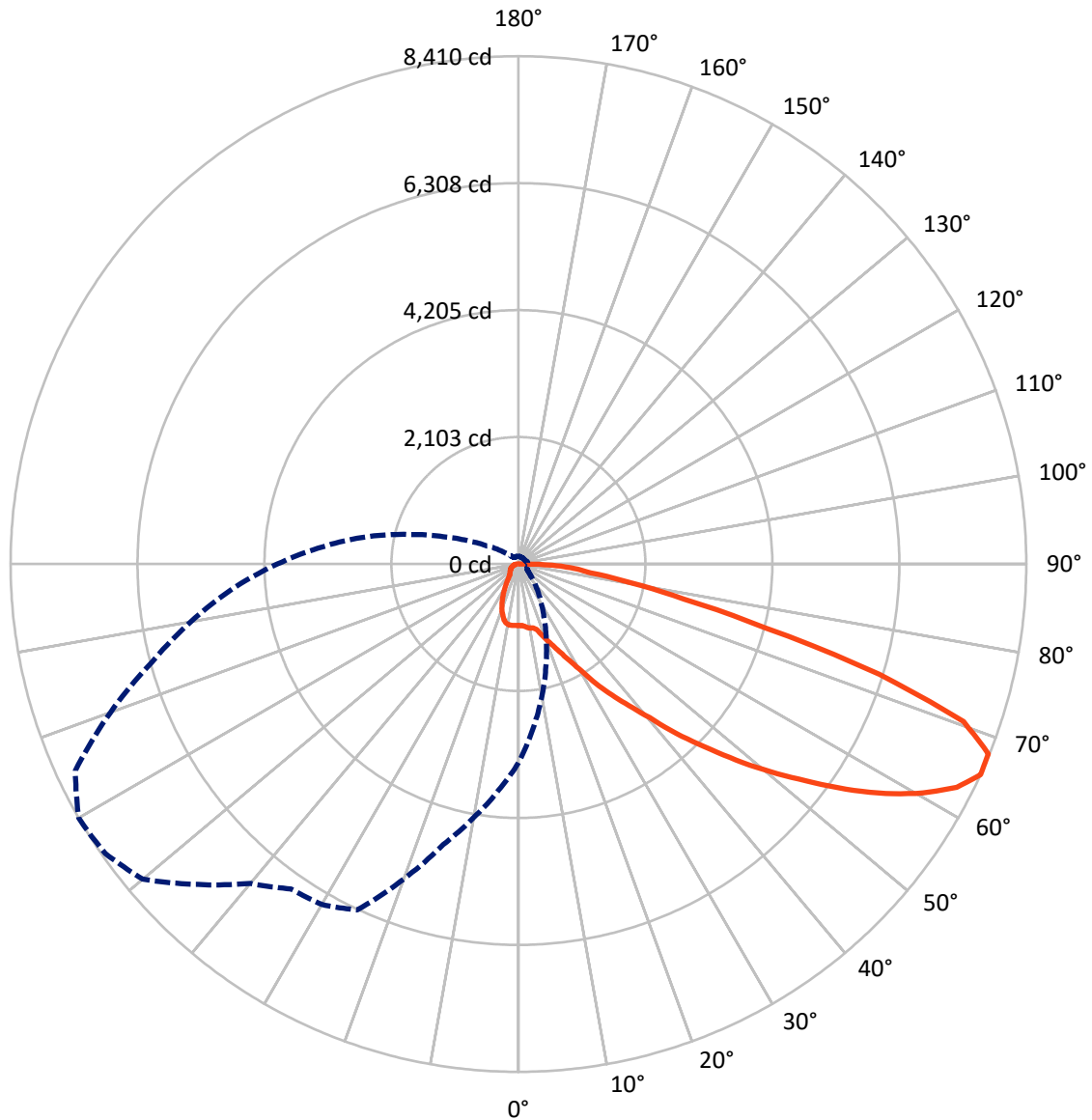
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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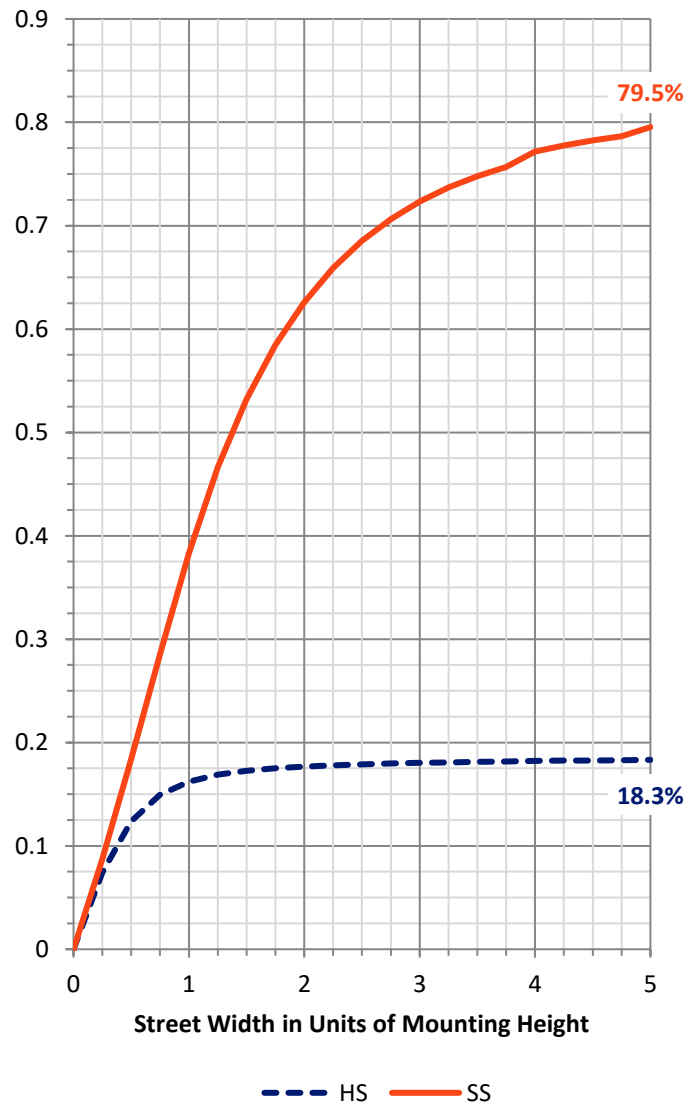
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1455.4	0.0	1455.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	6391.2	0.0	6391.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	7846.6	0.0	7846.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	1.3
10°-20°	296.4	3.8
20°-30°	492.4	6.3
30°-40°	719.8	9.2
40°-50°	1095.0	14.0
50°-60°	1574.0	20.1
60°-70°	1935.1	24.7
70°-80°	1294.6	16.5
80°-90°	340.6	4.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
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°	7846.6	100.0
0°-180°	7846.6	100.0

Coefficient of Utilization



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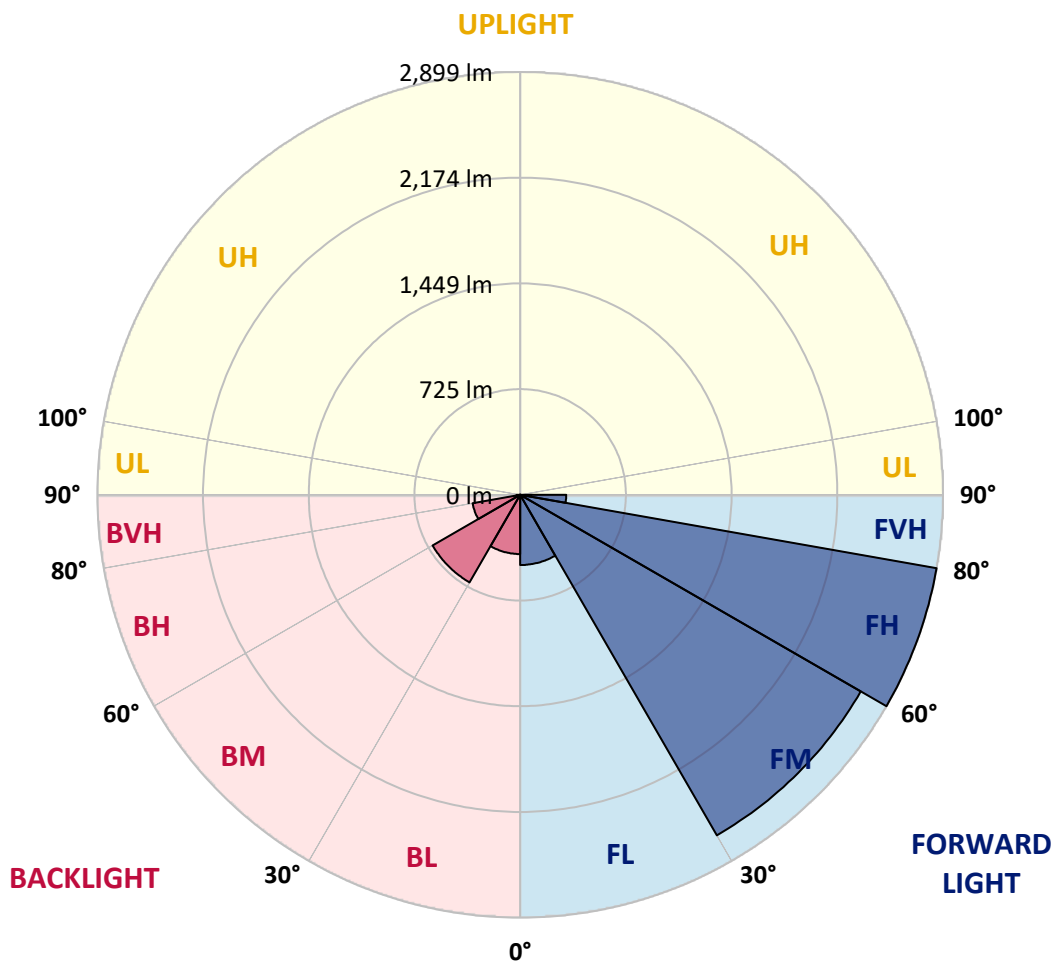
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.3	6.1			
FM	(30°-60°)	2695.6	34.4			
FH	(60°-80°)	2898.5	36.9			G2/5000
FVH	(80°-90°)	315.8	4.0			G3/500
BL	(0°-30°)	406.2	5.2	B1/500		
BM	(30°-60°)	693.2	8.8	B1/1000		
BH	(60°-80°)	331.2	4.2	B1/500		G1/500
BVH	(80°-90°)	24.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
2.5°	1021	1024	1024	1022	1021	1022	1023	1022	1023	1025	1024
5°	1008	1010	1011	1011	1011	1013	1016	1015	1018	1020	1020
7.5°	977	981	981	982	984	987	992	994	999	1006	1008
10°	958	959	956	955	957	963	966	971	979	987	995
12.5°	963	964	959	960	960	963	972	976	979	984	992
15°	1004	1004	998	1000	1001	1005	1005	998	996	991	987
17.5°	1059	1051	1050	1049	1053	1049	1040	1024	1005	985	969
20°	1116	1117	1111	1110	1099	1085	1059	1027	993	962	930
22.5°	1201	1203	1192	1170	1146	1109	1062	1013	964	921	884
25°	1330	1309	1284	1238	1177	1112	1047	986	922	865	818
27.5°	1458	1416	1349	1274	1188	1104	1027	945	869	800	746
30°	1577	1499	1403	1296	1186	1078	980	887	797	723	659
32.5°	1698	1584	1451	1301	1156	1027	914	807	718	628	559
35°	1850	1678	1480	1282	1104	947	826	724	628	537	465
37.5°	1989	1753	1495	1250	1036	864	731	627	537	460	398
40°	2091	1802	1493	1209	967	779	648	554	473	412	364
42.5°	2171	1830	1483	1170	907	717	594	508	444	395	358
45°	2226	1850	1477	1139	867	687	576	504	450	406	364
47.5°	2274	1873	1475	1125	858	696	600	535	476	419	363
50°	2322	1896	1493	1148	892	746	656	573	492	415	346
52.5°	2388	1963	1560	1214	966	816	709	604	495	405	330
55°	2487	2067	1656	1301	1046	892	752	616	492	394	315
57.5°	2649	2220	1787	1422	1150	951	776	621	485	382	303
60°	2854	2395	1952	1549	1239	992	786	619	475	368	286
62.5°	3087	2587	2101	1665	1303	1011	782	603	452	339	262
65°	3292	2740	2226	1758	1343	1011	757	566	411	298	231
67.5°	3460	2869	2322	1812	1347	976	697	499	346	247	195
70°	3548	2910	2352	1806	1280	875	587	388	254	192	157
72.5°	3451	2813	2224	1632	1068	653	411	264	182	149	130
75°	3071	2387	1851	1262	765	407	255	185	144	124	114
77.5°	2293	1779	1274	799	438	247	179	141	121	109	100
80°	1442	1096	766	440	250	182	149	126	110	95	86
82.5°	803	584	390	251	174	147	129	116	98	83	74
85°	549	361	246	165	120	107	96	88	75	63	58
87.5°	223	208	151	66	49	44	39	48	40	31	29
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
2.5°	1026	1024	1025	1024	1023	1022	1021	1022	1020	1021	1021
5°	1023	1021	1024	1023	1021	1021	1020	1020	1020	1020	1021
7.5°	1014	1014	1017	1017	1015	1015	1013	1012	1012	1013	1015
10°	1002	1005	1010	1008	1004	1002	999	997	996	998	1000
12.5°	993	995	992	989	983	976	975	970	967	972	972
15°	978	970	959	949	935	928	920	918	911	912	917
17.5°	946	925	908	898	886	881	872	867	862	857	860
20°	901	878	856	843	824	820	805	805	799	800	806
22.5°	844	809	781	765	745	737	730	725	722	728	721
25°	769	727	701	678	656	648	639	636	637	633	640
27.5°	692	640	612	586	570	556	549	547	543	554	548
30°	595	548	515	488	469	462	455	453	459	451	447
32.5°	497	446	418	395	381	367	365	361	354	363	361
35°	408	365	336	322	303	297	285	282	283	285	284
37.5°	354	324	298	279	265	257	253	249	249	247	246
40°	329	304	280	262	251	245	241	237	234	231	228
42.5°	325	295	268	250	240	238	237	234	230	225	221
45°	322	284	256	240	233	232	232	229	226	221	215
47.5°	312	270	243	231	228	229	228	225	223	218	211
50°	290	249	223	214	213	212	212	211	209	205	198
52.5°	271	230	209	203	201	201	199	198	194	191	186
55°	259	220	202	198	198	197	195	192	189	185	179
57.5°	248	212	197	194	195	194	192	190	186	181	174
60°	232	200	187	186	188	190	189	188	185	178	168
62.5°	209	180	170	172	174	176	175	174	171	165	156
65°	186	165	159	161	163	163	163	161	159	152	145
67.5°	164	151	149	151	152	152	153	151	148	143	136
70°	140	134	134	136	137	136	137	134	131	128	121
72.5°	125	125	124	124	124	122	121	119	116	113	107
75°	111	111	110	112	108	105	104	102	99	95	91
77.5°	95	93	93	96	95	91	88	87	83	79	77
80°	82	80	80	79	77	76	72	68	67	67	64
82.5°	72	71	68	66	63	60	57	55	52	51	52
85°	57	58	55	53	50	46	43	41	39	39	43
87.5°	33	31	31	30	29	26	26	23	22	28	29
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
2.5°	1022	1022	1019	1021	1020	1021	1025	1021	1020	1023	1026
5°	1022	1024	1021	1023	1023	1026	1031	1028	1030	1034	1038
7.5°	1018	1021	1021	1025	1028	1033	1040	1038	1042	1048	1053
10°	1007	1012	1017	1023	1030	1038	1048	1048	1052	1060	1065
12.5°	980	993	999	1013	1024	1036	1047	1054	1057	1064	1070
15°	926	942	954	971	989	1006	1025	1032	1038	1041	1044
17.5°	864	875	883	905	925	941	959	968	975	975	977
20°	813	818	820	820	832	847	870	867	873	867	873
22.5°	734	726	730	730	738	735	744	759	757	761	778
25°	638	639	632	632	633	635	639	643	657	672	683
27.5°	547	545	540	536	532	539	544	543	563	575	595
30°	447	447	448	446	450	445	453	455	472	485	503
32.5°	364	366	366	365	372	367	371	376	387	398	407
35°	289	292	300	303	306	302	307	313	314	324	331
37.5°	245	250	251	253	253	256	257	261	261	264	266
40°	226	224	223	222	220	221	222	225	226	228	228
42.5°	217	214	209	206	202	202	202	202	205	207	207
45°	209	204	199	194	191	189	190	191	193	194	195
47.5°	204	197	189	184	181	179	180	181	181	182	183
50°	190	183	176	171	168	167	167	166	167	168	168
52.5°	179	172	166	161	158	158	157	155	156	155	156
55°	173	164	157	152	149	149	147	148	148	146	147
57.5°	166	157	151	145	141	141	140	141	142	139	139
60°	159	151	144	139	134	135	134	136	136	133	133
62.5°	146	139	135	132	128	129	129	132	129	127	126
65°	136	131	125	125	121	123	123	123	120	119	120
67.5°	129	123	119	115	112	113	111	111	110	109	111
70°	116	111	109	105	103	100	99	99	99	98	99
72.5°	103	99	97	93	91	89	88	87	86	87	87
75°	87	85	83	81	79	78	77	77	76	75	76
77.5°	75	72	71	69	70	67	66	67	67	67	68
80°	64	62	62	60	59	57	58	58	58	58	59
82.5°	56	54	54	53	50	48	49	51	51	50	52
85°	46	44	44	43	39	38	37	39	40	38	40
87.5°	30	28	27	27	23	16	21	23	23	19	22
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
2.5°	1025	1027	1027	1029	1033	1029	1027	1030	1030	1029	1029
5°	1038	1042	1043	1049	1052	1050	1052	1054	1055	1053	1055
7.5°	1055	1060	1065	1072	1078	1077	1080	1084	1085	1085	1087
10°	1069	1076	1081	1090	1097	1099	1102	1107	1112	1112	1116
12.5°	1072	1080	1085	1093	1105	1109	1116	1128	1133	1137	1140
15°	1046	1053	1060	1071	1085	1097	1113	1130	1145	1156	1160
17.5°	978	979	986	1002	1031	1044	1064	1099	1120	1140	1159
20°	878	897	904	925	953	973	996	1028	1060	1096	1128
22.5°	790	815	835	860	883	906	935	963	998	1033	1071
25°	700	723	751	778	805	834	870	900	935	976	1024
27.5°	613	637	668	700	722	761	791	835	875	920	974
30°	522	545	560	595	626	665	711	754	802	852	915
32.5°	423	437	458	482	518	559	607	653	719	781	841
35°	339	346	345	372	388	437	497	541	607	683	762
37.5°	267	266	272	276	296	328	375	432	508	590	669
40°	228	229	230	230	234	255	297	356	429	502	589
42.5°	210	212	213	215	217	224	254	309	371	449	527
45°	197	200	203	203	205	207	224	266	328	402	484
47.5°	186	189	191	192	194	196	205	234	294	361	446
50°	170	173	175	178	178	178	184	205	251	317	400
52.5°	157	159	162	164	165	166	169	181	216	278	356
55°	150	152	155	157	159	160	162	167	192	245	318
57.5°	141	144	148	150	152	153	154	156	173	213	273
60°	135	140	145	148	149	150	151	149	156	181	228
62.5°	128	133	137	141	142	143	144	141	140	152	178
65°	122	125	128	131	131	132	131	127	124	124	136
67.5°	114	116	119	120	120	120	119	118	113	111	113
70°	102	105	108	110	110	109	108	105	103	101	103
72.5°	91	95	96	97	96	96	96	94	95	95	96
75°	80	82	82	84	84	84	84	84	86	85	86
77.5°	68	69	71	71	71	72	74	74	76	77	77
80°	59	57	57	56	57	59	61	65	65	66	67
82.5°	47	43	41	43	43	44	48	52	52	55	56
85°	36	31	27	29	29	31	35	37	40	41	40
87.5°	21	18	12	10	12	15	16	18	15	17	18
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
2.5°	1031	1031	1026	1026	1027	1029	1024	1023	1024	1023	1022
5°	1058	1055	1054	1052	1051	1053	1048	1048	1047	1045	1042
7.5°	1088	1086	1084	1082	1080	1081	1076	1075	1074	1073	1070
10°	1116	1113	1111	1106	1102	1098	1088	1085	1082	1080	1079
12.5°	1139	1136	1129	1120	1114	1104	1096	1089	1086	1083	1084
15°	1161	1155	1146	1135	1129	1119	1113	1110	1108	1106	1108
17.5°	1168	1170	1165	1162	1158	1154	1155	1158	1164	1164	1164
20°	1155	1177	1191	1202	1211	1217	1218	1221	1228	1231	1246
22.5°	1124	1181	1228	1266	1290	1298	1307	1317	1318	1321	1335
25°	1095	1178	1248	1308	1364	1403	1425	1445	1450	1454	1454
27.5°	1044	1136	1226	1306	1383	1448	1499	1551	1587	1600	1619
30°	990	1087	1180	1281	1379	1470	1562	1646	1705	1749	1784
32.5°	922	1027	1133	1243	1360	1474	1597	1719	1831	1919	1973
35°	851	961	1071	1192	1324	1462	1619	1781	1931	2074	2197
37.5°	773	877	997	1135	1277	1442	1625	1826	2034	2239	2398
40°	684	785	901	1046	1218	1404	1622	1861	2122	2377	2633
42.5°	623	716	827	973	1148	1361	1610	1893	2202	2518	2840
45°	577	668	777	917	1095	1319	1606	1929	2286	2648	3024
47.5°	537	631	736	874	1046	1281	1597	1959	2356	2748	3184
50°	498	594	702	841	1010	1240	1577	1986	2422	2852	3316
52.5°	455	550	666	808	987	1214	1556	2008	2486	2963	3453
55°	409	505	619	769	956	1194	1535	2022	2553	3063	3576
57.5°	359	455	566	719	918	1167	1512	2021	2602	3157	3709
60°	298	385	495	649	852	1129	1493	2013	2637	3240	3857
62.5°	227	301	402	546	757	1056	1443	1979	2641	3300	3980
65°	162	202	282	426	601	893	1322	1889	2575	3257	3991
67.5°	124	146	185	271	426	680	1114	1687	2370	3028	3807
70°	107	118	139	177	267	441	789	1333	1952	2605	3270
72.5°	99	106	119	138	170	260	486	896	1434	1986	2568
75°	91	98	108	120	136	174	265	527	885	1312	1726
77.5°	81	87	100	111	121	136	169	293	487	785	1033
80°	68	74	84	101	111	121	132	180	269	406	530
82.5°	56	59	67	82	91	96	99	117	153	200	292
85°	39	39	45	53	60	56	57	60	79	111	224
87.5°	15	11	14	17	17	16	19	18	25	47	64
90°	0	0	0	0	0	0	0	0	0	0	0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	0°
2.5°	1022	1022	1021	1020	1019	1019	1017	1020	1019	1020	1021	2.5°
5°	1043	1041	1039	1037	1037	1035	1032	1031	1027	1026	1023	5°
7.5°	1073	1073	1073	1071	1067	1062	1056	1052	1041	1033	1024	7.5°
10°	1081	1083	1084	1085	1081	1080	1073	1065	1052	1040	1028	10°
12.5°	1084	1088	1089	1090	1087	1085	1078	1073	1062	1050	1044	12.5°
15°	1112	1119	1127	1126	1135	1125	1119	1120	1108	1095	1091	15°
17.5°	1184	1187	1204	1205	1219	1223	1213	1202	1195	1187	1170	17.5°
20°	1262	1284	1290	1320	1334	1341	1342	1342	1329	1294	1280	20°
22.5°	1347	1380	1416	1435	1464	1468	1483	1474	1464	1437	1405	22.5°
25°	1484	1503	1535	1583	1597	1626	1620	1633	1611	1564	1545	25°
27.5°	1637	1670	1715	1760	1780	1812	1792	1812	1776	1763	1717	27.5°
30°	1804	1849	1929	1985	2026	2048	2035	2024	2014	1990	1987	30°
32.5°	2009	2063	2139	2212	2284	2359	2377	2393	2430	2357	2286	32.5°
35°	2262	2303	2388	2472	2571	2665	2820	2859	2809	2722	2608	35°
37.5°	2509	2602	2687	2787	2861	2969	3038	3115	3073	2992	2861	37.5°
40°	2812	2938	3054	3177	3261	3345	3475	3559	3551	3450	3273	40°
42.5°	3090	3290	3482	3574	3686	3838	3934	4068	4077	3960	3735	42.5°
45°	3381	3614	3848	4029	4124	4312	4532	4678	4723	4500	4270	45°
47.5°	3609	3972	4286	4479	4656	4850	5133	5344	5326	5025	4721	47.5°
50°	3809	4271	4651	4969	5181	5405	5778	6030	5942	5559	5179	50°
52.5°	3990	4532	5002	5396	5643	5963	6434	6654	6404	6034	5564	52.5°
55°	4156	4768	5314	5788	6169	6582	7024	7175	6819	6362	5930	55°
57.5°	4309	4987	5601	6170	6681	7174	7559	7569	7122	6615	6203	57.5°
60°	4493	5188	5901	6566	7189	7701	7926	7855	7317	6804	6391	60°
62.5°	4671	5369	6146	6947	7698	8145	8190	8040	7451	6892	6532	62.5°
65°	4759	5507	6283	7189	8096	8410	8355	8120	7505	6905	6568	65°
67.5°	4630	5378	6152	7084	8094	8393	8251	7967	7374	6728	6401	67.5°
70°	4155	4880	5511	6388	7524	7819	7606	7325	6829	6197	6048	70°
72.5°	3496	4034	4562	5210	5989	6247	5966	6106	5978	5366	5230	72.5°
75°	2624	3127	3333	3532	4070	4224	4116	4596	4727	4472	4125	75°
77.5°	1717	2245	2283	2287	2507	2802	3193	3692	3940	3825	3404	77.5°
80°	1001	1582	1415	1361	1556	1885	2401	3026	3354	3378	2976	80°
82.5°	503	992	859	850	960	1203	1580	1929	2356	2376	2429	82.5°
85°	391	682	698	757	834	935	963	1025	1263	1483	1540	85°
87.5°	203	502	592	689	680	557	470	507	590	622	808	87.5°
90°	0	0	0	0	0	0	0	0	0	0	0	90°



NUMBER: P141560

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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1020	1020	1020	1020	1020	1020	1020
1019	1021	1020	1021	1022	1022	1021
1018	1017	1013	1011	1011	1009	1008
1012	1005	995	989	985	982	977
1013	1001	988	979	970	964	958
1026	1011	999	985	978	970	963
1071	1051	1037	1024	1016	1010	1004
1143	1119	1096	1084	1070	1060	1059
1240	1205	1175	1148	1135	1119	1116
1350	1299	1267	1237	1219	1200	1201
1490	1439	1387	1356	1330	1333	1330
1658	1618	1558	1520	1512	1481	1458
1920	1860	1787	1719	1676	1625	1577
2177	2066	1969	1903	1848	1773	1698
2431	2303	2213	2157	2072	1967	1850
2733	2649	2585	2448	2327	2166	1989
3169	3063	2910	2736	2561	2333	2091
3603	3475	3261	3005	2754	2479	2171
4074	3827	3548	3238	2929	2588	2226
4445	4137	3789	3417	3068	2678	2274
4824	4452	4015	3596	3194	2751	2322
5122	4707	4246	3759	3311	2833	2388
5420	4961	4453	3922	3456	2947	2487
5668	5191	4653	4100	3624	3099	2649
5995	5514	4888	4311	3814	3306	2854
6306	5893	5215	4559	4046	3540	3087
6511	6321	5550	4808	4264	3759	3292
6515	6593	5903	5010	4468	3997	3460
6358	6631	5978	5028	4565	4103	3548
5815	6163	5529	4673	4385	4020	3451
4498	4750	4422	3961	3971	3758	3071
3114	3352	3076	2978	3197	3078	2293
2359	2052	1944	1996	2269	2256	1442
2101	1553	1288	1352	1602	1463	803
1723	1549	1295	1171	1221	999	549
992	1133	923	870	757	450	223
0	0	0	0	0	0	0

(END OF REPORT)