

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: P676136

Luminaire Tested: **CCW-SA-2A-740-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676136
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-740-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

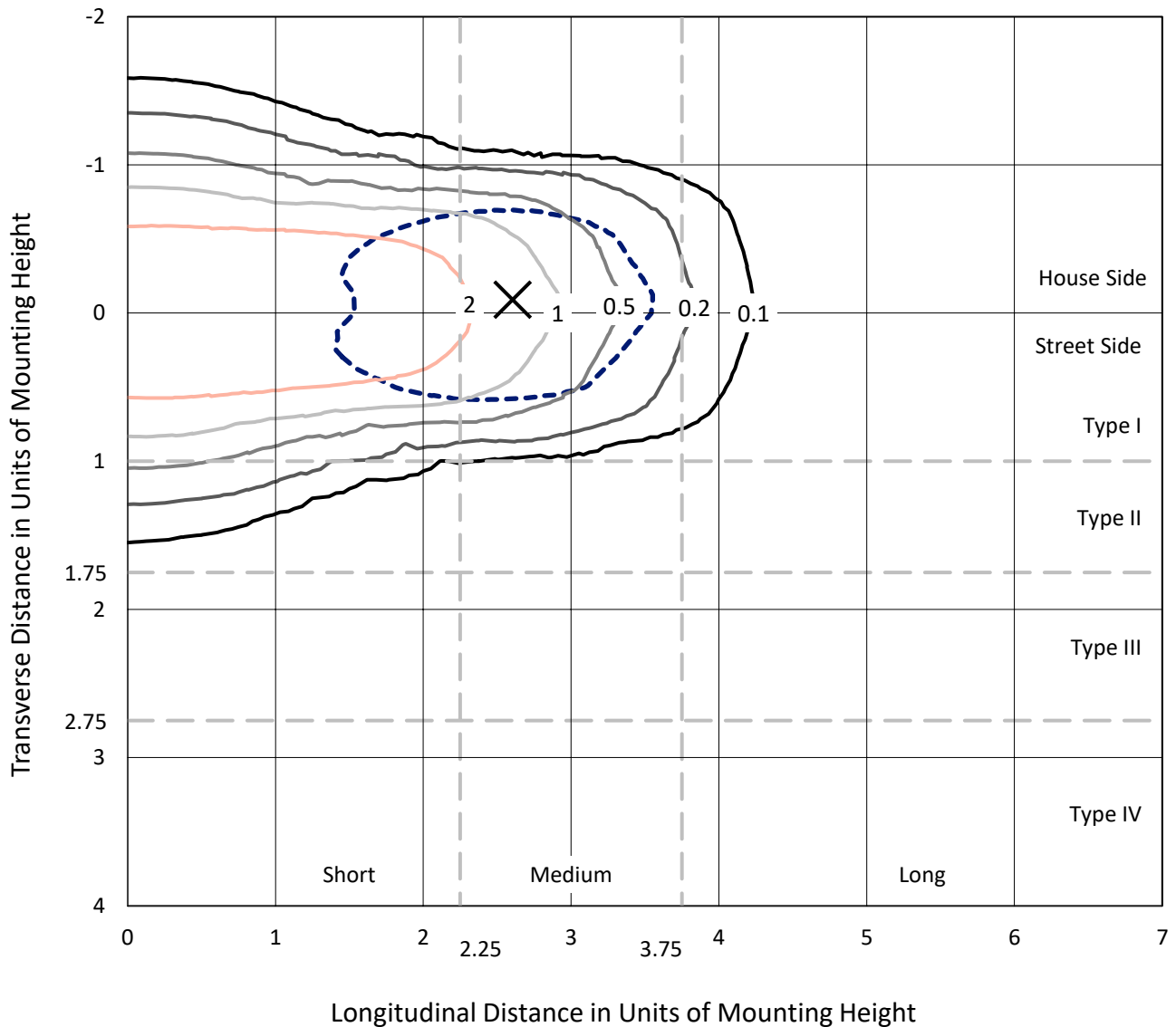
Lumens per Lamp: N/A
Luminaire Lumens: 5328.1 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): 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

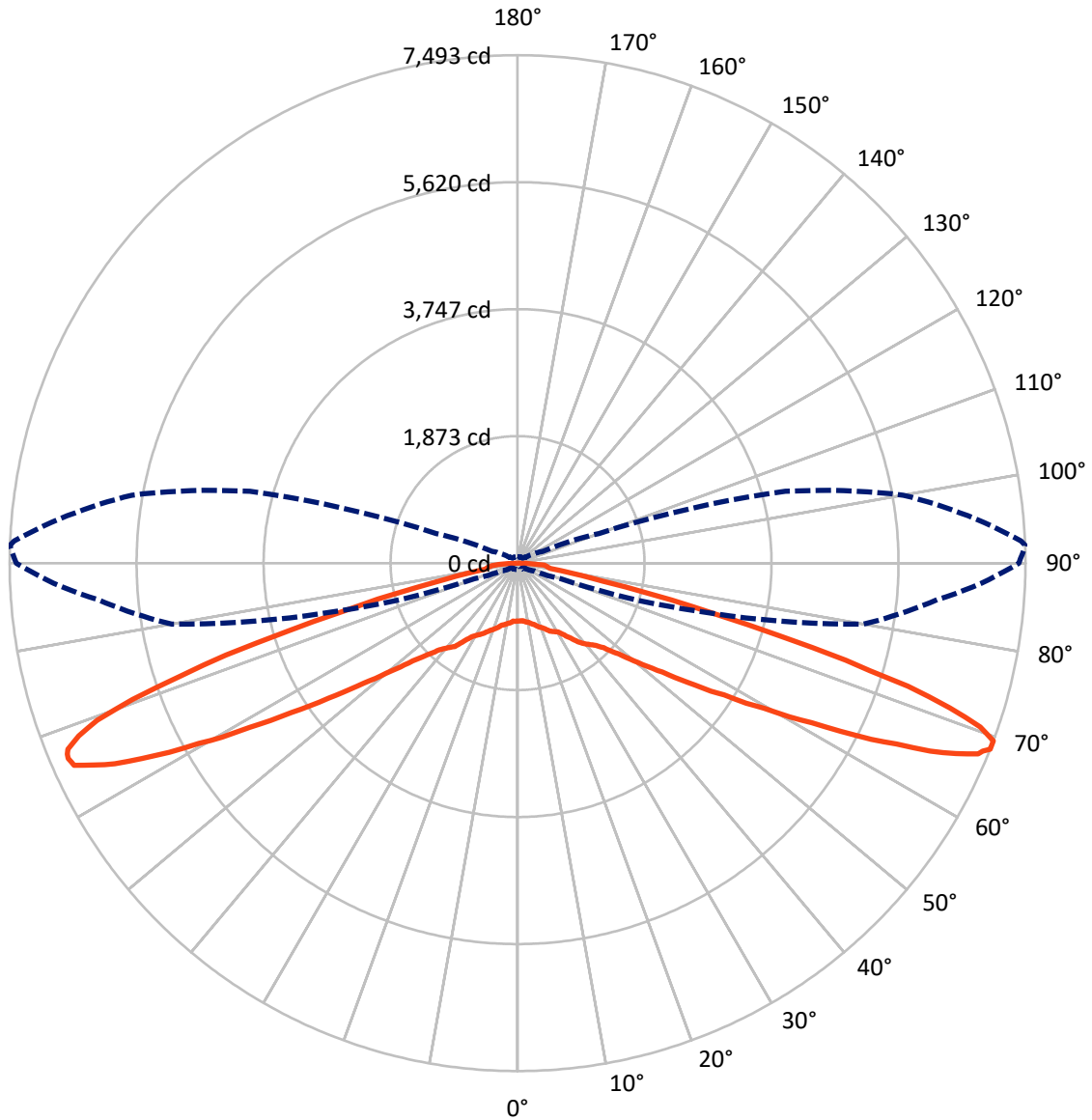
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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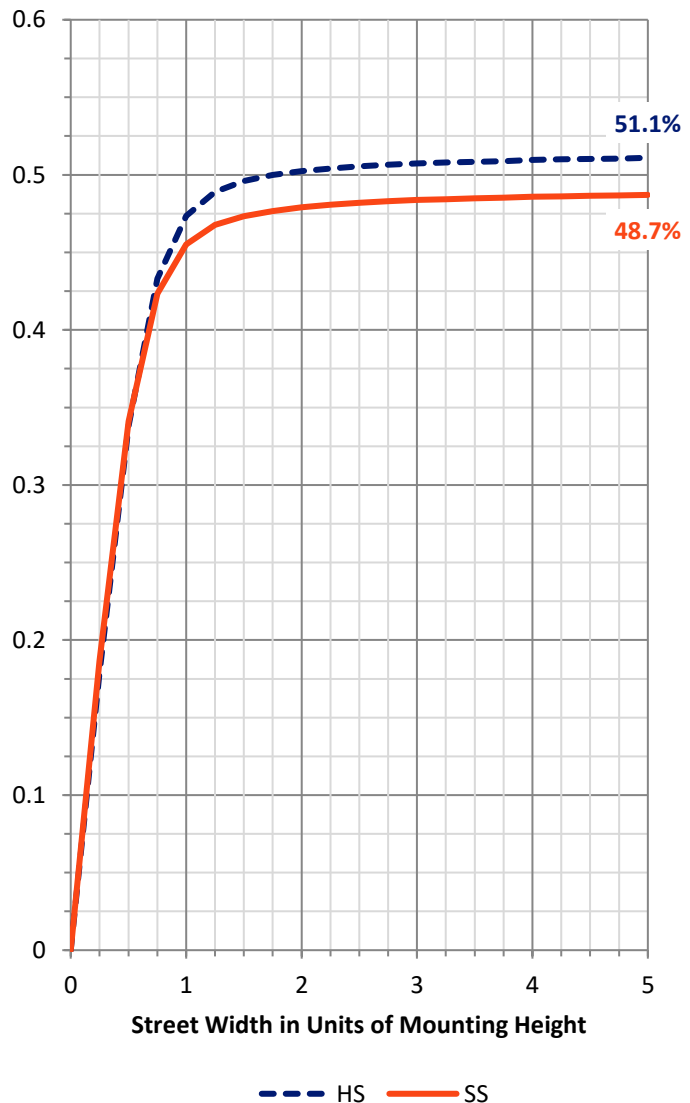
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.9	0.0	2743.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2584.2	0.0	2584.2
	% Fixture	48.5	0.0	48.5
Total	Lumens	5328.1	0.0	5328.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	1.6
10°-20°	276.4	5.2
20°-30°	471.7	8.9
30°-40°	658.6	12.4
40°-50°	837.8	15.7
50°-60°	1059.3	19.9
60°-70°	1306.4	24.5
70°-80°	570.7	10.7
80°-90°	61.9	1.2
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°	5328.1	100.0
0°-180°	5328.1	100.0



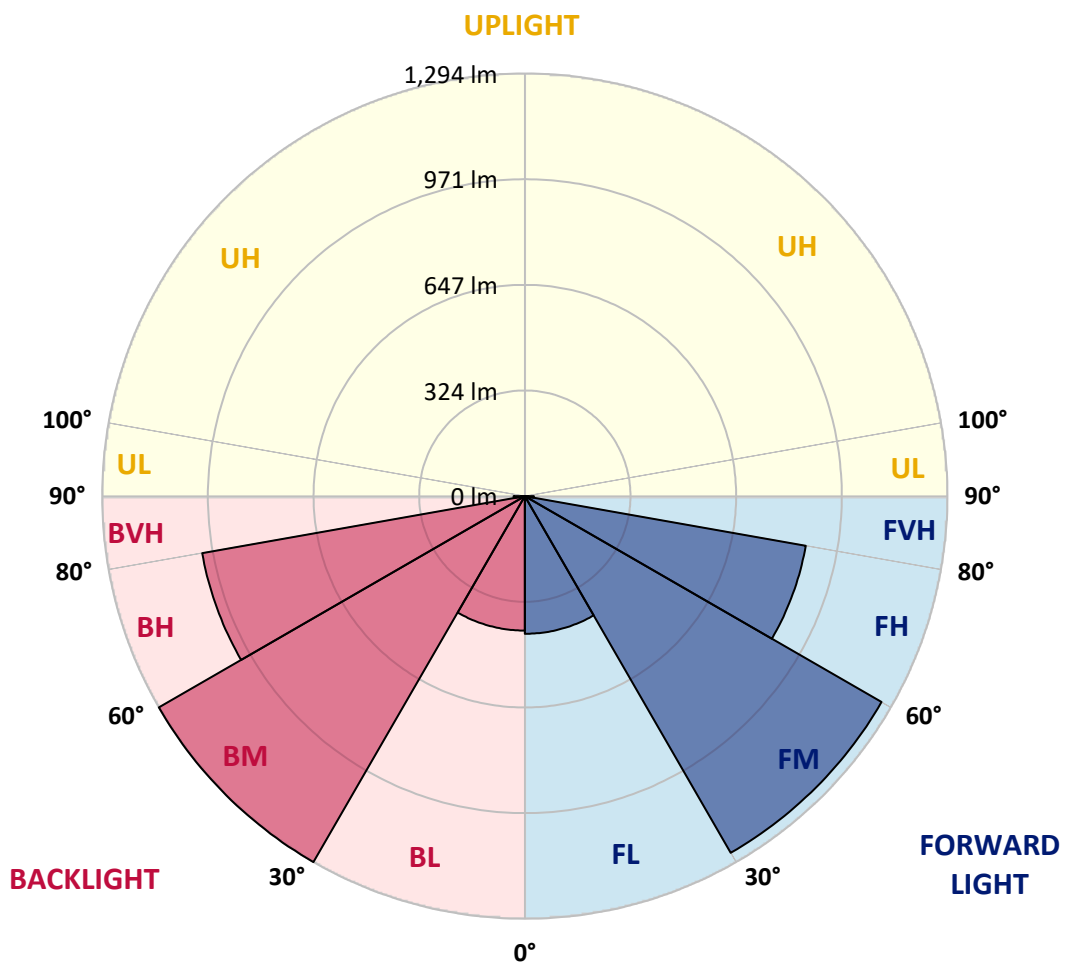
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.7	7.9			
FM (30°-60°)	1261.4	23.7			
FH (60°-80°)	873.7	16.4			G1/1800
FVH (80°-90°)	27.4	0.5			G1/100
BL (0°-30°)	411.8	7.7	B1/500		
BM (30°-60°)	1294.3	24.3	B2/2500		
BH (60°-80°)	1003.4	18.8	B3/2500		G3/2500
BVH (80°-90°)	34.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	852	852	852	852	852	852	852	852	852	852	852
2.5°	870	869	872	874	865	868	866	864	857	854	848
5°	894	897	907	898	902	897	881	886	877	875	869
7.5°	936	930	944	934	937	927	920	911	909	895	896
10°	945	957	963	961	963	968	955	941	922	918	904
12.5°	939	950	966	979	988	990	985	982	974	951	950
15°	933	925	935	980	1010	1030	1037	1020	1022	992	980
17.5°	893	881	920	964	1001	1045	1079	1074	1074	1050	1033
20°	840	860	880	936	1004	1070	1135	1132	1120	1113	1076
22.5°	795	804	841	900	985	1077	1154	1209	1181	1153	1131
25°	764	756	803	864	967	1065	1190	1247	1262	1241	1199
27.5°	720	720	757	815	909	1059	1225	1312	1334	1303	1242
30°	670	676	708	774	866	1015	1239	1387	1405	1378	1315
32.5°	631	631	667	737	836	995	1230	1461	1495	1475	1410
35°	589	586	612	689	788	956	1227	1520	1596	1597	1529
37.5°	529	541	574	635	750	918	1218	1591	1727	1750	1703
40°	489	494	524	591	691	873	1205	1649	1814	1893	1828
42.5°	431	438	461	544	634	809	1148	1690	1938	2028	1973
45°	370	374	408	476	573	733	1087	1756	2058	2242	2210
47.5°	297	299	328	399	500	657	993	1753	2155	2456	2546
50°	232	237	259	317	412	564	884	1729	2277	2700	2877
52.5°	185	186	200	246	318	471	767	1653	2392	2939	3283
55°	153	153	161	189	244	358	630	1527	2406	3203	3726
56°	147	145	152	176	220	323	566	1442	2426	3325	3948
57°	139	140	144	161	198	286	495	1359	2412	3425	4112
58°	135	133	141	152	175	254	446	1261	2390	3507	4351
59°	129	128	133	143	163	226	386	1155	2347	3613	4529
60°	127	126	128	136	150	198	340	1031	2232	3722	4750
61°	121	122	126	131	142	178	306	904	2157	3814	4994
62°	122	120	122	126	134	164	268	779	2023	3918	5177
63°	116	115	118	123	127	148	234	673	1871	3942	5332
64°	114	113	114	121	122	139	207	575	1651	3983	5531
65°	109	109	111	114	118	131	185	499	1432	3875	5592
66°	105	106	106	111	114	122	170	424	1222	3703	5651
67°	102	102	103	107	110	115	153	367	1031	3498	5560
67.5°	100	101	101	105	108	115	146	348	922	3273	5492
68°	97	98	98	102	105	111	141	318	850	3127	5366
69°	95	94	94	98	102	106	131	278	676	2719	5182
70°	89	89	91	94	97	101	121	245	572	2251	4708
71°	86	85	86	89	92	97	111	217	468	1869	4242
72°	80	82	82	85	88	91	104	189	393	1494	3729
72.5°	79	79	80	83	85	90	100	181	359	1317	3514
73°	76	76	77	80	82	87	97	163	327	1172	3112
74°	73	72	72	76	77	82	91	144	274	883	2498
75°	68	68	69	71	72	76	84	128	231	685	1954



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	56	57	58	60	60	63	69	89	141	347	897
80°	41	43	46	49	48	48	54	64	84	156	344
82.5°	33	35	32	36	36	34	39	47	57	77	123
85°	22	23	19	22	21	21	26	28	35	43	61
87.5°	10	10	8	9	9	9	13	10	15	21	36
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	852	852	852	852	852	852	852	852	852	852	852
2.5°	854	858	858	854	851	854	852	847	852	854	855
5°	866	858	862	853	859	858	856	861	862	862	869
7.5°	879	889	876	877	880	868	872	874	870	878	884
10°	902	906	902	887	897	889	886	895	893	895	904
12.5°	923	930	919	918	913	906	910	909	923	925	936
15°	966	948	944	943	941	938	940	941	959	962	988
17.5°	1003	1000	978	986	986	974	969	986	1000	1015	1033
20°	1041	1038	1014	1015	1006	1017	1011	1027	1051	1056	1072
22.5°	1086	1073	1056	1058	1061	1053	1049	1071	1095	1109	1110
25°	1157	1124	1110	1112	1108	1102	1105	1133	1145	1175	1169
27.5°	1195	1176	1166	1143	1144	1135	1147	1189	1213	1236	1190
30°	1241	1229	1185	1177	1176	1172	1194	1248	1284	1297	1231
32.5°	1331	1283	1272	1265	1249	1254	1265	1336	1393	1390	1269
35°	1434	1401	1370	1364	1362	1348	1367	1450	1494	1481	1283
37.5°	1599	1549	1507	1484	1480	1470	1515	1581	1638	1587	1294
40°	1680	1624	1585	1571	1574	1588	1632	1733	1758	1664	1303
42.5°	1796	1735	1658	1651	1642	1649	1734	1870	1891	1768	1269
45°	2002	1910	1821	1781	1783	1802	1934	2083	2044	1840	1215
47.5°	2262	2127	2055	2001	2027	2006	2216	2335	2202	1931	1149
50°	2653	2464	2366	2301	2312	2330	2543	2644	2377	1975	1048
52.5°	3146	2903	2759	2672	2680	2719	2994	2963	2577	2012	913
55°	3736	3486	3207	3171	3162	3255	3558	3297	2757	1953	773
56°	4048	3782	3492	3418	3396	3461	3817	3464	2819	1887	706
57°	4313	4059	3741	3615	3643	3765	4074	3621	2876	1819	643
58°	4677	4387	4051	3955	3930	4027	4351	3779	2895	1749	585
59°	5040	4692	4389	4214	4221	4398	4624	3967	2924	1660	511
60°	5316	5141	4736	4605	4587	4843	4896	4093	2955	1540	459
61°	5707	5479	5102	4933	4982	5187	5190	4251	2909	1388	395
62°	5988	5928	5532	5371	5356	5628	5496	4390	2869	1244	349
63°	6317	6317	5956	5830	5837	6052	5629	4529	2823	1085	307
64°	6488	6703	6370	6193	6239	6425	5866	4620	2681	924	270
65°	6636	6959	6774	6692	6622	6732	6071	4705	2464	786	240
66°	6761	7200	7139	7051	7044	7019	6111	4702	2240	664	210
67°	6698	7205	7316	7353	7342	7078	6041	4595	1953	561	187
67.5°	6641	7164	7422	7401	7447	7128	6053	4464	1749	508	176
68°	6591	7109	7465	7492	7469	7134	5987	4360	1610	477	166
69°	6212	6848	7396	7493	7434	6905	5777	4089	1279	407	153
70°	5832	6510	7061	7239	7166	6462	5512	3658	1055	348	138
71°	5306	5882	6615	6722	6634	5958	4964	3203	821	295	123
72°	4592	5081	5781	6040	5910	5233	4410	2647	665	248	112
72.5°	4238	4739	5414	5435	5460	4918	4175	2325	580	230	109
73°	3902	4393	4977	5051	4945	4387	3824	2079	530	210	105
74°	3162	3442	3926	3998	3905	3577	3125	1594	422	181	96
75°	2488	2642	3080	3036	2897	2782	2423	1218	342	159	89



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1118	1211	1284	1284	1292	1233	1117	559	211	115	73
80°	426	477	493	494	501	519	483	275	125	82	59
82.5°	309	432	465	441	443	400	185	122	79	57	43
85°	280	376	398	395	396	370	109	60	46	36	30
87.5°	136	133	141	159	155	201	92	30	20	15	15
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	852	852	852	852	852	852
2.5°	847	846	860	846	854	848
5°	857	861	864	870	856	870
7.5°	887	891	892	897	891	890
10°	910	920	926	906	918	917
12.5°	955	945	944	940	929	925
15°	987	972	963	947	934	929
17.5°	1032	1003	966	933	910	892
20°	1060	1008	934	895	860	868
22.5°	1078	1003	905	855	820	830
25°	1084	978	885	823	789	782
27.5°	1067	949	846	776	746	752
30°	1059	907	810	741	701	707
32.5°	1038	864	762	692	663	653
35°	1008	828	716	650	615	607
37.5°	971	783	676	596	565	559
40°	916	729	618	549	513	512
42.5°	868	677	564	493	457	459
45°	807	607	502	441	405	407
47.5°	729	542	443	375	345	343
50°	637	468	371	313	288	283
52.5°	549	393	304	252	231	229
55°	438	306	237	198	182	183
56°	398	282	216	181	169	169
57°	360	250	196	167	156	156
58°	318	220	178	151	146	142
59°	289	200	161	143	135	134
60°	255	180	150	134	128	127
61°	226	162	138	125	123	123
62°	202	150	128	121	120	117
63°	181	138	123	115	112	115
64°	162	127	119	113	109	111
65°	147	122	114	110	106	107
66°	137	114	110	105	103	104
67°	124	110	106	101	100	101
67.5°	120	107	104	99	98	99
68°	117	105	103	98	97	96
69°	109	101	98	96	94	93
70°	102	97	95	92	90	89
71°	98	92	91	88	86	85
72°	93	89	87	83	82	83
72.5°	92	87	86	82	81	81
73°	89	83	84	80	78	80
74°	83	81	79	76	75	75
75°	78	76	74	72	72	72



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	66	65	66	62	61	60
80°	53	53	54	51	49	48
82.5°	40	41	43	40	38	36
85°	26	27	27	24	28	26
87.5°	13	14	13	12	14	14
90°	0	0	0	0	0	0

(END OF REPORT)