

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: P151650

Luminaire Tested: **VWM-E03-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151650
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E03-LED-E1-SL4-HSS
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6104.4 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

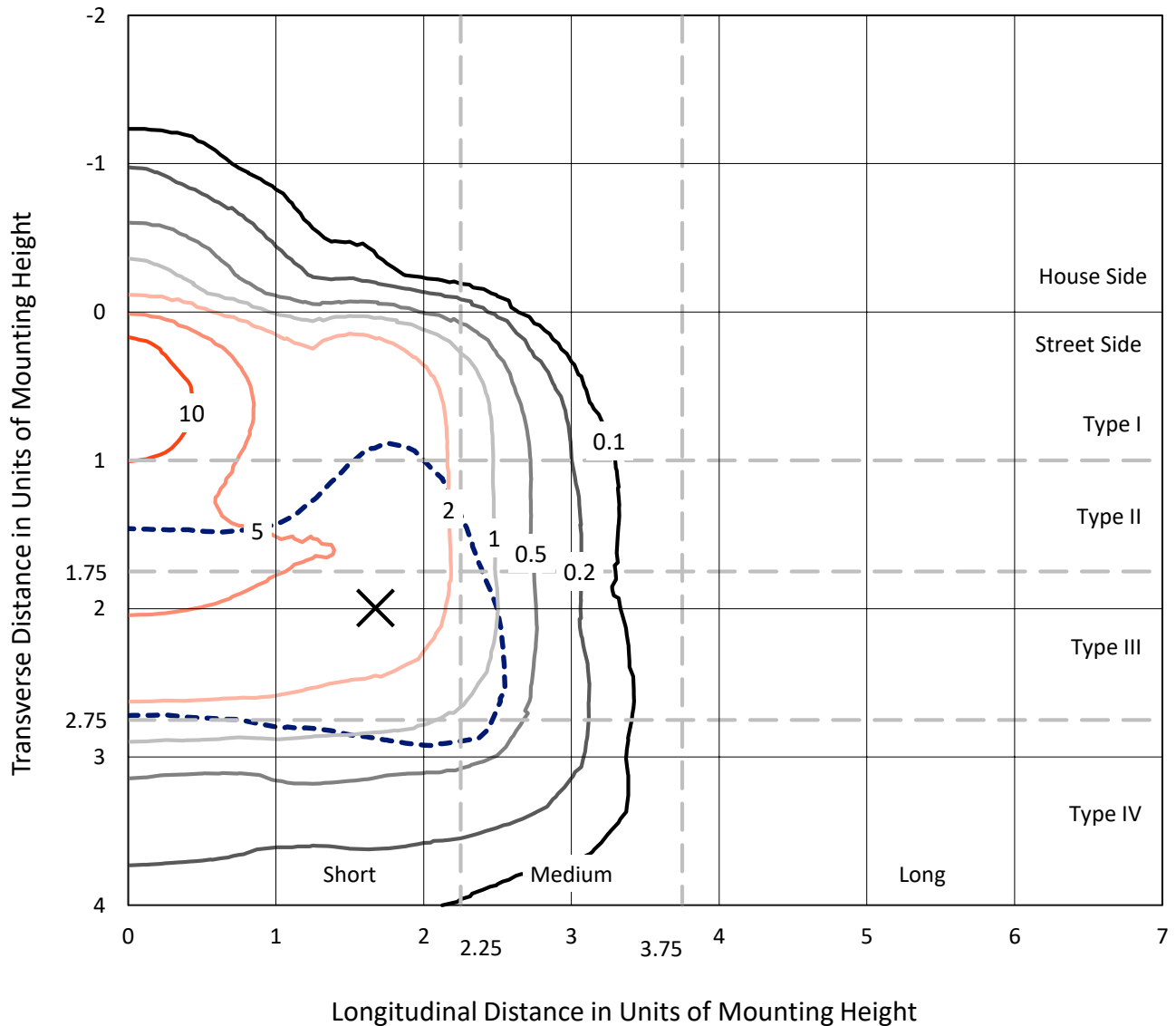
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

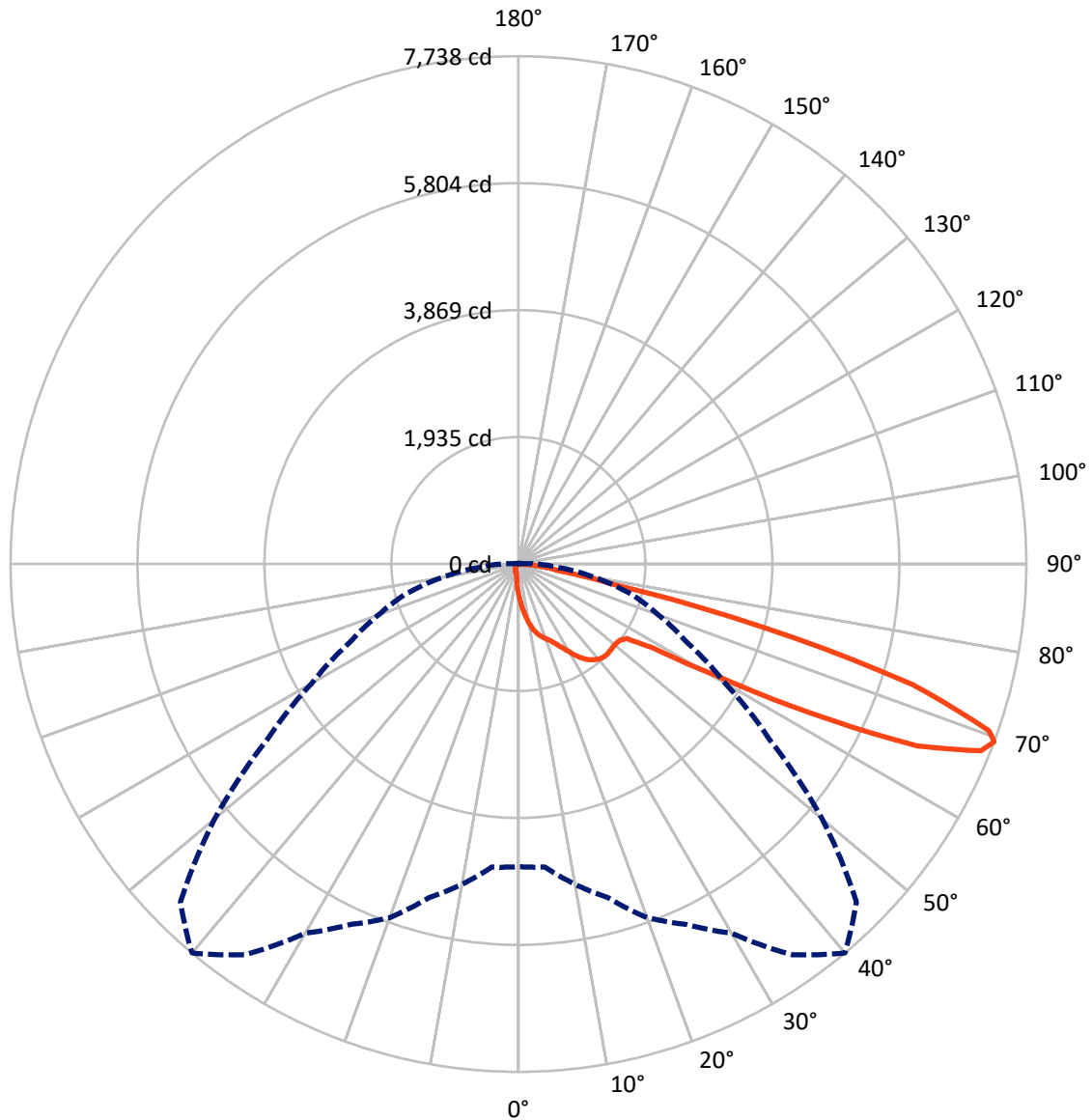
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	181.8	0.0	181.8
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	5922.6	0.0	5922.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	6104.4	0.0	6104.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	0.8
10°-20°	163.4	2.7
20°-30°	312.7	5.1
30°-40°	520.0	8.5
40°-50°	703.6	11.5
50°-60°	1100.4	18.0
60°-70°	2262.4	37.1
70°-80°	910.4	14.9
80°-90°	84.2	1.4
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°	6104.4	100.0
0°-180°	6104.4	100.0



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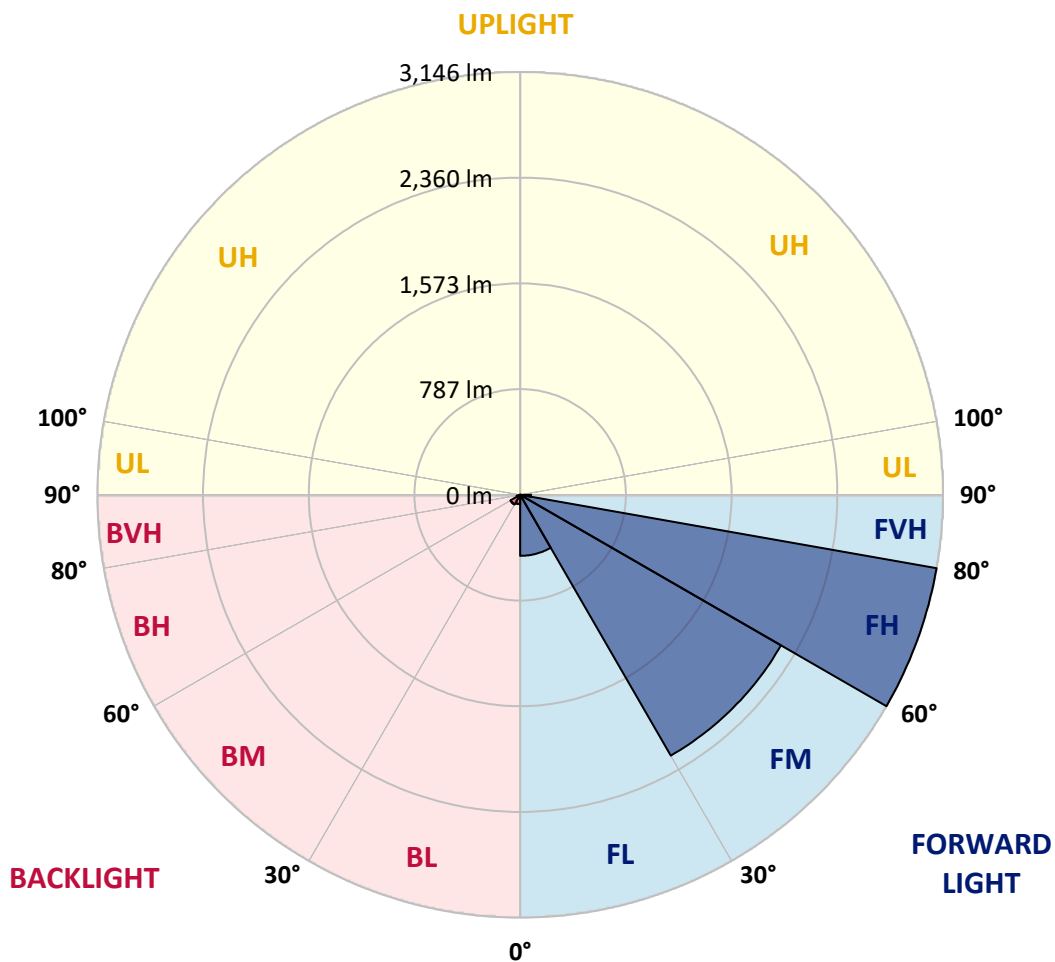
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.3	7.4			
FM (30°-60°)	2241.0	36.7			
FH (60°-80°)	3146.2	51.5			G2/5000
FVH (80°-90°)	81.1	1.3			G1/100
BL (0°-30°)	69.1	1.1	B0/110		
BM (30°-60°)	83.0	1.4	B0/220		
BH (60°-80°)	26.5	0.4	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	461	461	461	461	461	461	461	461	461	461	461
2.5°	615	608	600	600	590	590	584	568	566	557	548
5°	785	779	769	760	752	738	728	709	688	668	650
7.5°	951	948	930	927	914	891	871	843	807	779	746
10°	1105	1098	1094	1077	1058	1033	1002	968	926	882	835
12.5°	1227	1223	1205	1198	1178	1153	1114	1070	1028	971	916
15°	1318	1311	1299	1288	1264	1242	1206	1158	1107	1045	979
17.5°	1394	1381	1378	1361	1336	1310	1270	1226	1166	1104	1032
20°	1496	1478	1472	1447	1418	1382	1336	1281	1218	1150	1076
22.5°	1616	1603	1590	1568	1531	1480	1413	1353	1273	1198	1118
25°	1786	1775	1754	1724	1678	1617	1536	1448	1354	1258	1164
27.5°	1951	1941	1926	1903	1851	1784	1684	1572	1453	1337	1233
30°	2106	2097	2082	2059	2013	1947	1834	1714	1566	1431	1306
32.5°	2273	2270	2253	2220	2180	2091	1968	1839	1689	1533	1387
35°	2462	2439	2423	2390	2322	2227	2083	1942	1784	1624	1461
37.5°	2622	2600	2580	2538	2455	2334	2171	2016	1853	1690	1524
40°	2739	2728	2704	2649	2556	2412	2236	2067	1903	1739	1575
42.5°	2826	2809	2782	2725	2615	2451	2262	2088	1926	1769	1608
45°	2858	2844	2819	2757	2638	2462	2261	2082	1927	1778	1630
47.5°	2839	2825	2803	2745	2628	2449	2243	2065	1917	1781	1650
50°	2776	2768	2751	2702	2597	2424	2227	2056	1915	1796	1678
52.5°	2770	2765	2744	2695	2588	2416	2225	2061	1932	1815	1698
55°	3385	3314	3155	3020	2798	2534	2326	2142	2004	1890	1808
57.5°	4811	4705	4496	4239	3729	3228	2827	2537	2394	2342	2373
60°	5479	5460	5427	5305	5044	4613	4133	3614	3406	3388	3451
62.5°	5796	5784	5794	5779	5698	5572	5434	5210	5004	4871	4589
65°	5942	5950	6007	6052	6062	6095	6196	6475	6679	6336	5553
67.5°	5571	5618	5749	5913	6105	6291	6591	7179	7598	7195	6083
69°	4612	4635	4955	5264	5733	6061	6496	7267	7738	7283	6041
70°	3631	3652	3995	4415	5208	5630	6199	7118	7607	7166	5825
72.5°	1638	1608	1729	1954	2816	3486	4481	5767	6276	5741	4358
75°	1144	1131	1144	1145	1279	1650	2082	3126	3866	3336	2082
77.5°	886	877	868	858	874	979	1021	1109	1440	1362	794
80°	701	693	715	708	708	720	712	679	617	572	512
82.5°	326	328	328	356	429	501	524	491	436	371	299
85°	31	35	59	91	181	204	205	170	170	134	108
87.5°	0	1	1	1	9	25	21	6	3	3	5
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°	461	461	461	461	461	461	461	461	461	461	461
2.5°	532	529	517	505	494	482	471	460	448	439	428
5°	622	600	575	551	527	502	476	453	429	407	386
7.5°	713	670	636	593	554	515	479	442	408	376	346
10°	790	738	685	630	574	522	472	428	383	344	307
12.5°	853	787	722	653	590	524	462	409	356	312	274
15°	910	834	756	676	596	521	452	386	332	282	239
17.5°	956	869	781	691	605	517	439	370	307	255	213
20°	996	905	810	709	611	516	428	350	285	230	189
22.5°	1033	942	840	732	620	515	418	335	266	211	170
25°	1075	979	872	756	636	519	412	323	249	193	155
27.5°	1122	1021	910	786	657	527	410	310	234	176	143
30°	1188	1071	948	816	676	536	408	302	219	163	131
32.5°	1246	1120	990	847	697	545	407	291	205	150	122
35°	1307	1165	1026	877	715	555	406	283	192	137	113
37.5°	1360	1203	1054	903	735	564	407	276	180	126	105
40°	1405	1242	1085	927	756	578	408	269	168	116	98
42.5°	1445	1279	1118	954	780	594	414	263	158	107	91
45°	1476	1313	1154	992	819	620	425	259	148	99	85
47.5°	1508	1363	1215	1052	876	661	444	258	140	93	80
50°	1552	1413	1269	1113	928	703	467	259	130	87	75
52.5°	1584	1464	1339	1219	1052	831	556	277	125	82	69
55°	1773	1752	1755	1775	1646	1414	930	400	147	93	68
57.5°	2500	2574	2617	2616	2403	1993	1249	514	164	108	81
60°	3456	3400	3321	3126	2843	2275	1397	553	142	86	74
62.5°	4301	3973	3682	3366	2995	2373	1427	550	124	65	52
65°	4828	4238	3768	3372	2935	2291	1350	505	105	53	43
67.5°	4954	4095	3430	2925	2452	1783	991	380	82	44	38
69°	4679	3640	2842	2269	1784	1183	613	240	63	40	35
70°	4304	3166	2315	1821	1321	831	429	169	51	37	32
72.5°	2769	1663	1138	792	545	331	168	76	39	31	26
75°	1074	615	446	339	265	184	102	49	33	26	20
77.5°	529	405	331	227	132	82	55	38	27	19	13
80°	418	278	166	103	78	59	42	31	20	12	9
82.5°	214	117	86	70	58	46	34	22	13	8	7
85°	67	49	44	43	40	33	24	14	8	5	5
87.5°	5	7	9	7	8	7	9	6	4	4	3
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°	461	461	461	461	461	461	461	461	461	461	461
2.5°	420	408	397	390	377	372	367	365	356	358	350
5°	367	346	330	314	299	288	279	268	259	255	247
7.5°	319	292	271	254	236	222	210	202	194	186	182
10°	277	248	224	207	190	178	169	163	158	155	154
12.5°	238	210	188	173	160	154	150	147	146	145	145
15°	208	180	163	152	146	143	142	140	138	137	137
17.5°	180	159	147	141	138	136	134	132	130	129	129
20°	161	144	138	134	131	129	126	124	123	122	121
22.5°	146	135	131	128	124	121	119	117	115	114	113
25°	135	128	125	121	117	114	111	108	106	105	103
27.5°	127	122	118	113	109	106	103	100	98	96	95
30°	120	115	110	106	101	98	94	91	90	88	86
32.5°	113	108	103	98	93	89	87	83	81	80	78
35°	105	100	94	90	85	81	78	75	73	71	70
37.5°	98	92	86	81	77	73	70	67	65	63	62
40°	90	84	78	73	69	66	63	60	58	57	57
42.5°	83	76	70	66	63	59	56	53	52	51	52
45°	76	69	64	60	57	53	50	48	47	48	49
47.5°	70	63	58	55	52	49	46	44	44	46	48
50°	64	57	53	51	48	45	41	40	41	43	45
52.5°	58	50	47	46	43	40	37	36	37	39	38
55°	52	44	43	42	39	35	32	32	32	31	29
57.5°	50	39	38	37	34	30	28	26	25	22	21
60°	52	35	35	33	30	26	23	20	18	16	16
62.5°	42	32	31	29	25	21	18	15	14	13	13
65°	34	29	27	24	21	17	14	12	11	11	12
67.5°	31	26	23	20	17	13	11	10	10	11	11
69°	29	24	21	18	15	12	10	10	10	10	11
70°	27	23	20	17	13	10	9	9	10	10	11
72.5°	21	18	17	14	10	9	8	9	9	10	10
75°	16	13	13	11	8	7	7	8	8	9	9
77.5°	11	9	9	8	7	6	6	7	8	8	9
80°	8	7	6	7	6	5	6	7	7	8	8
82.5°	6	6	6	6	5	5	6	6	7	8	8
85°	5	5	5	5	5	5	5	6	6	7	7
87.5°	3	3	3	4	4	5	5	5	5	6	6
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	461	461	461	461
2.5°	348	347	343	344
5°	244	238	242	241
7.5°	179	178	177	179
10°	153	153	152	153
12.5°	144	144	144	144
15°	137	137	136	136
17.5°	129	129	129	128
20°	121	120	120	120
22.5°	112	111	111	111
25°	103	102	102	102
27.5°	94	93	92	92
30°	85	84	83	83
32.5°	76	75	74	74
35°	68	68	67	66
37.5°	61	61	61	61
40°	56	57	57	57
42.5°	53	54	55	56
45°	51	53	54	54
47.5°	50	51	52	52
50°	46	45	45	45
52.5°	37	35	34	33
55°	27	26	24	24
57.5°	19	19	18	18
60°	15	15	14	15
62.5°	13	13	13	13
65°	12	12	12	12
67.5°	12	12	12	12
69°	11	11	11	11
70°	11	11	11	11
72.5°	10	10	10	10
75°	9	10	10	10
77.5°	9	9	9	9
80°	8	8	9	9
82.5°	8	8	8	8
85°	7	7	8	8
87.5°	6	6	7	7
90°	0	0	0	0

(END OF REPORT)