

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P622082

Luminaire Tested: **EPH-VN-08-E-735-U-66**

Issue Date: 09/20/2022

Test Information

Test Method: LM-79-2019
Report Number: P622082
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/20/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-735-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

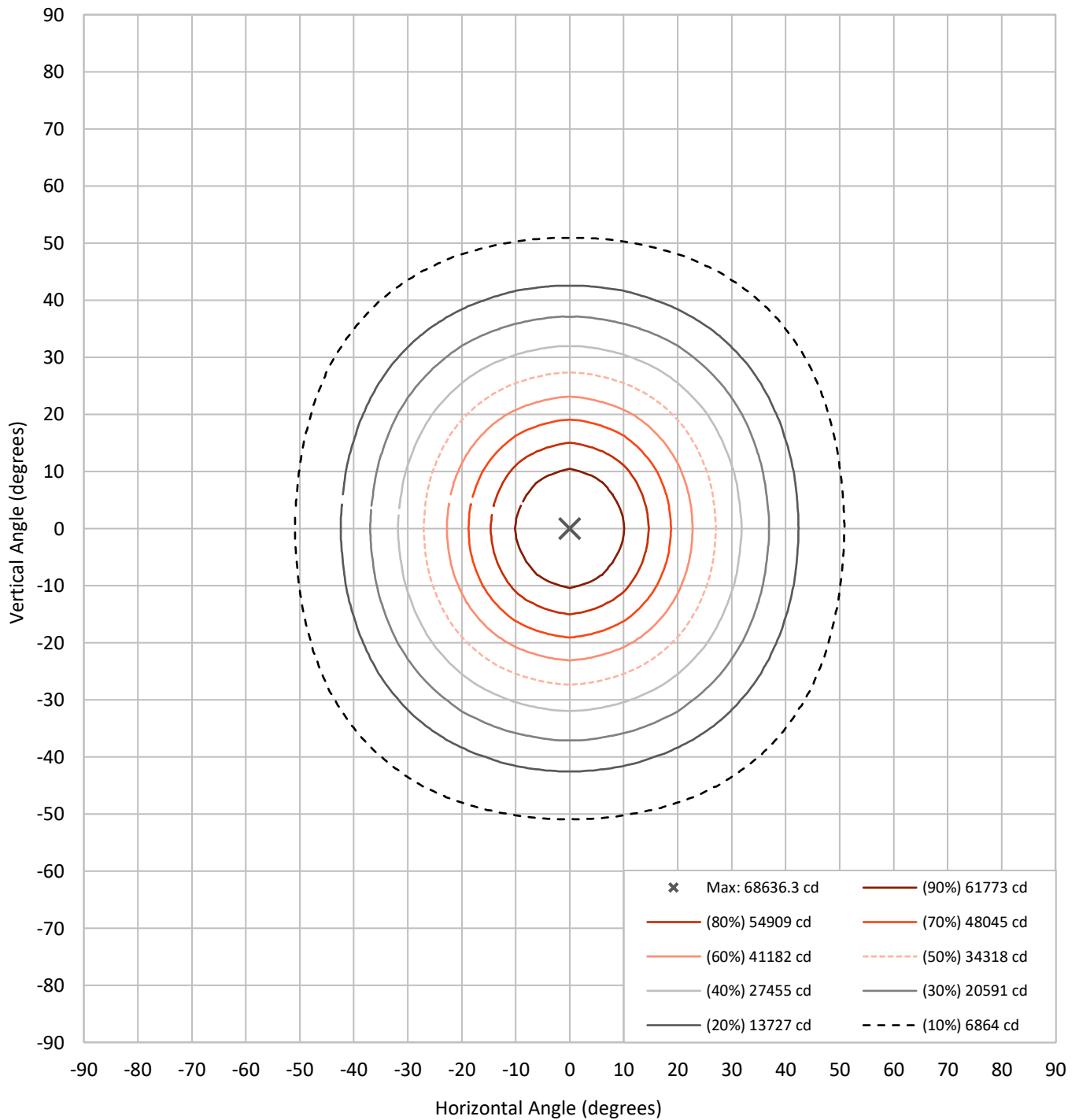
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	71187.1 lumens	Max Intensity:	68636.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	113.6 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	34227 lumens	Field Lumens:	62473.7 lumens
Beam Efficiency:	48.1%	Field Efficiency:	87.8%

Input Watts (W): 626.8
Input Voltage (V): 120
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



REPORT NUMBER: P622082
CATALOG NUMBER: EPH-VN-08-E-735-U-66

Iso-Candela Plot





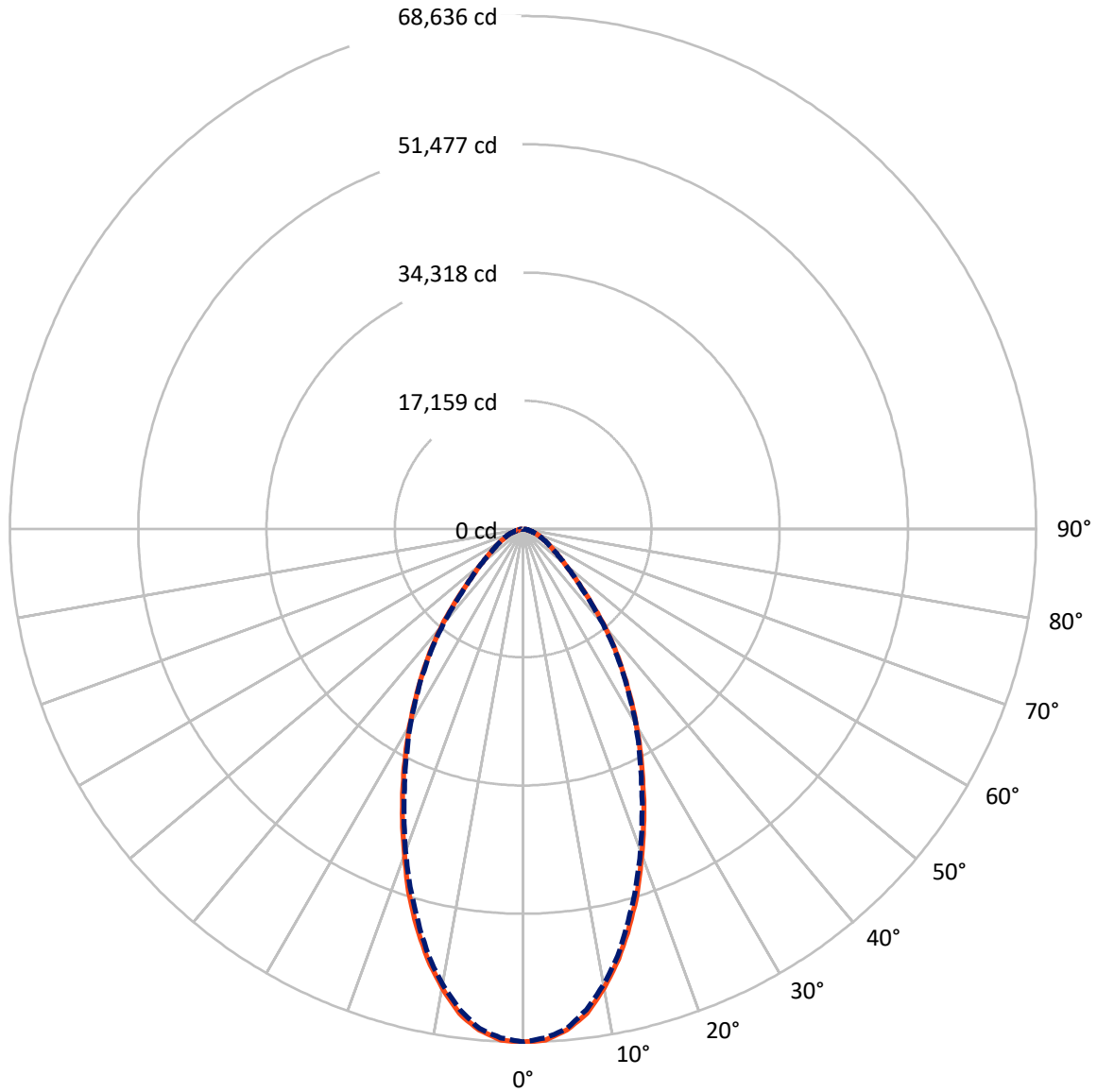
REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

Lumen Table

90																			
80	5.0	30.6		61.5		93.6		80.4		93.6		61.5		30.6		5.0			
70																			
60	12.6	13.4	23.7	36.1	50.5	64.5	75.2	80.6	80.6	75.2	64.5	50.5	36.1	23.7	13.4	12.6			
		17.7	33.6	55.3	82.9	113.0	140.0	156.3	156.3	140.0	113.0	82.9	55.3	33.6	17.7				
50																			
40	16.8	22.1	45.2	81.5	135.2	207.4	285.5	338.6	338.6	285.5	207.4	135.2	81.5	45.2	22.1	16.8			
		26.4	58.3	117.3	225.0	398.0	578.9	691.3	691.3	578.9	398.0	225.0	117.3	58.3	26.4				
30																			
20	19.4	30.3	71.7	162.6	360.2	650.0	933.6	1120.5	1120.5	933.6	650.0	360.2	162.6	71.7	30.3	19.4			
		33.5	83.7	209.2	490.5	875.2	1296.1	1600.3	1600.3	1296.1	875.2	490.5	209.2	83.7	33.5				
10																			
0	20.4	35.2	90.9	239.9	566.3	1015.1	1545.8	1942.9	1942.9	1545.8	1015.1	566.3	239.9	90.9	35.2	20.4			
		35.2	90.9	239.9	566.3	1015.1	1545.8	1942.9	1942.9	1545.8	1015.1	566.3	239.9	90.9	35.2				
-10																			
-20	19.4	33.5	83.7	209.2	490.5	875.2	1296.1	1600.3	1600.3	1296.1	875.2	490.5	209.2	83.7	33.5	19.4			
		30.3	71.7	162.6	360.2	650.0	933.6	1120.5	1120.5	933.6	650.0	360.2	162.6	71.7	30.3				
-30																			
-40	16.8	26.4	58.3	117.3	225.0	398.0	578.9	691.3	691.3	578.9	398.0	225.0	117.3	58.3	26.4	16.8			
		22.1	45.2	81.5	135.2	207.4	285.5	338.6	338.6	285.5	207.4	135.2	81.5	45.2	22.1				
-50																			
-60	12.6	17.7	33.6	55.3	82.9	113.0	140.0	156.3	156.3	140.0	113.0	82.9	55.3	33.6	17.7	12.6			
		13.4	23.7	36.1	50.5	64.5	75.2	80.6	80.6	75.2	64.5	50.5	36.1	23.7	13.4				
-70																			
-80	5.0	30.6		61.5		93.6		80.4		93.6		61.5		30.6		5.0			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

REPORT NUMBER: P622082
CATALOG NUMBER: EPH-VN-08-E-735-U-66

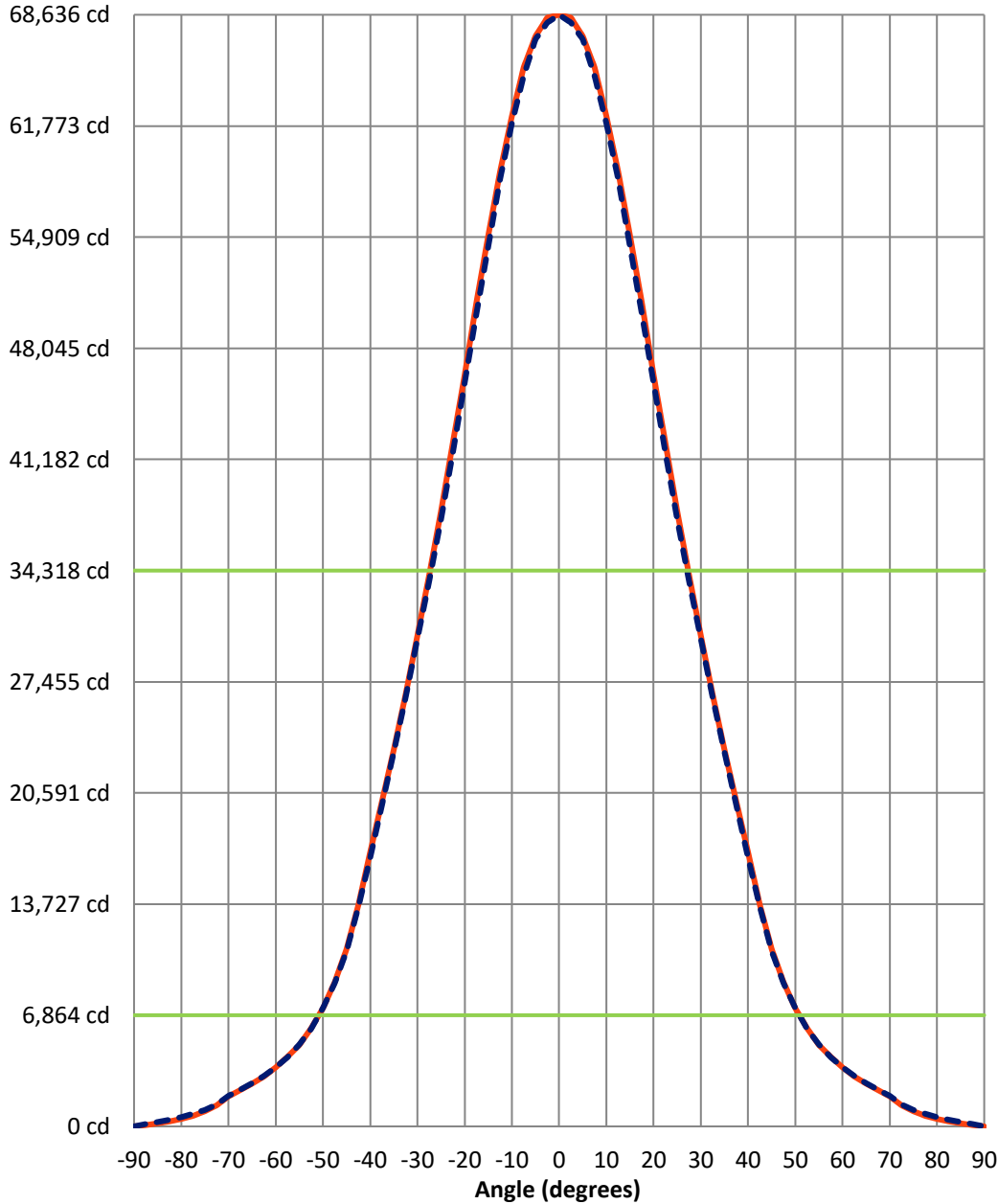
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

Luminous Intensity Plot



Beam:
 H Angle: 54.2°
 V Angle: 54.7°
 Lumens: 34227
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 62473.7
 Efficiency: 87.8%

Spill:
 Lumens: 8713.4
 Efficiency: 12.2%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	7	15	29	44	59	73	88	95	102	117
85°	0	15	29	51	80	117	154	176	190	212	227
82.5°	0	22	51	80	124	168	227	256	285	315	336
80°	0	29	66	110	161	227	300	336	373	410	439
77.5°	0	37	80	132	205	278	366	417	461	505	549
75°	0	44	95	161	241	322	424	490	549	607	673
72.5°	0	51	110	183	271	366	483	563	629	709	797
70°	0	59	124	212	300	410	541	629	709	805	878
67.5°	0	66	139	227	329	446	585	695	783	870	951
65°	0	66	154	241	351	483	622	753	848	936	1031
62.5°	0	73	168	256	373	512	658	805	907	1002	1112
60°	0	80	176	271	402	541	702	856	958	1075	1192
57.5°	0	88	183	285	417	563	731	900	1024	1148	1273
55°	0	95	198	300	432	592	761	943	1082	1214	1353
52.5°	0	95	205	307	453	614	790	973	1141	1287	1448
50°	0	102	212	315	468	636	812	1009	1199	1360	1529
47.5°	0	110	219	322	475	651	841	1046	1265	1433	1616
45°	0	110	227	329	490	673	863	1068	1309	1507	1697
42.5°	0	117	227	336	497	688	885	1104	1346	1580	1785
40°	0	124	234	351	512	695	907	1134	1390	1653	1865
37.5°	0	124	241	358	519	709	922	1163	1433	1704	1938
35°	0	132	249	366	527	717	929	1192	1470	1755	2019
32.5°	0	132	249	380	534	731	943	1214	1514	1814	2092
30°	0	132	256	388	534	731	965	1236	1550	1872	2165
27.5°	0	139	256	388	549	739	980	1265	1587	1938	2238
25°	0	139	263	395	556	739	987	1287	1631	1997	2304
22.5°	0	139	263	402	563	746	995	1309	1675	2048	2377
20°	0	146	271	410	570	753	1002	1331	1719	2092	2435
17.5°	0	146	271	410	578	768	1009	1346	1755	2136	2487
15°	0	154	271	410	578	775	1024	1353	1792	2172	2538
12.5°	0	154	271	417	578	775	1031	1368	1828	2209	2574
10°	0	146	278	417	578	783	1039	1375	1850	2231	2611
7.5°	0	146	278	417	585	783	1039	1375	1872	2253	2633
5°	0	146	271	417	578	790	1039	1382	1902	2275	2655
2.5°	0	146	271	410	578	790	1024	1368	1894	2275	2669
0°	0	146	271	410	578	790	1024	1368	1894	2275	2669
-2.5°	0	146	271	410	578	790	1024	1368	1894	2275	2669
-5°	0	146	271	417	578	790	1039	1382	1902	2275	2655
-7.5°	0	146	278	417	585	783	1039	1375	1872	2253	2633
-10°	0	146	278	417	578	783	1039	1375	1850	2231	2611
-12.5°	0	154	271	417	578	775	1031	1368	1828	2209	2574
-15°	0	154	271	410	578	775	1024	1353	1792	2172	2538
-17.5°	0	146	271	410	578	768	1009	1346	1755	2136	2487
-20°	0	146	271	410	570	753	1002	1331	1719	2092	2435



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	139	263	402	563	746	995	1309	1675	2048	2377
-25°	0	139	263	395	556	739	987	1287	1631	1997	2304
-27.5°	0	139	256	388	549	739	980	1265	1587	1938	2238
-30°	0	132	256	388	534	731	965	1236	1550	1872	2165
-32.5°	0	132	249	380	534	731	943	1214	1514	1814	2092
-35°	0	132	249	366	527	717	929	1192	1470	1755	2019
-37.5°	0	124	241	358	519	709	922	1163	1433	1704	1938
-40°	0	124	234	351	512	695	907	1134	1390	1653	1865
-42.5°	0	117	227	336	497	688	885	1104	1346	1580	1785
-45°	0	110	227	329	490	673	863	1068	1309	1507	1697
-47.5°	0	110	219	322	475	651	841	1046	1265	1433	1616
-50°	0	102	212	315	468	636	812	1009	1199	1360	1529
-52.5°	0	95	205	307	453	614	790	973	1141	1287	1448
-55°	0	95	198	300	432	592	761	943	1082	1214	1353
-57.5°	0	88	183	285	417	563	731	900	1024	1148	1273
-60°	0	80	176	271	402	541	702	856	958	1075	1192
-62.5°	0	73	168	256	373	512	658	805	907	1002	1112
-65°	0	66	154	241	351	483	622	753	848	936	1031
-67.5°	0	66	139	227	329	446	585	695	783	870	951
-70°	0	59	124	212	300	410	541	629	709	805	878
-72.5°	0	51	110	183	271	366	483	563	629	709	797
-75°	0	44	95	161	241	322	424	490	549	607	673
-77.5°	0	37	80	132	205	278	366	417	461	505	549
-80°	0	29	66	110	161	227	300	336	373	410	439
-82.5°	0	22	51	80	124	168	227	256	285	315	336
-85°	0	15	29	51	80	117	154	176	190	212	227
-87.5°	0	7	15	29	44	59	73	88	95	102	117
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	124	132	139	139	139	132	124	117	132	146	161
85°	241	263	271	285	278	263	256	241	271	300	336
82.5°	358	380	395	410	410	395	380	358	402	446	497
80°	468	497	527	549	549	527	505	475	527	592	658
77.5°	600	636	666	695	688	680	666	651	702	768	834
75°	731	783	805	834	848	841	841	856	914	995	1068
72.5°	848	885	929	980	1002	1017	1053	1097	1156	1221	1280
70°	943	987	1046	1097	1141	1185	1236	1295	1353	1419	1477
67.5°	1031	1097	1156	1221	1280	1346	1412	1477	1543	1616	1689
65°	1126	1199	1273	1346	1426	1507	1587	1660	1741	1836	1916
62.5°	1221	1302	1390	1477	1572	1668	1763	1858	1967	2070	2172
60°	1309	1412	1514	1624	1733	1843	1945	2070	2201	2318	2450
57.5°	1397	1521	1638	1763	1887	2011	2158	2296	2450	2604	2750
55°	1492	1638	1770	1909	2048	2209	2370	2545	2713	2911	3094
52.5°	1594	1748	1902	2055	2231	2406	2596	2801	3020	3247	3474
50°	1697	1865	2033	2216	2413	2618	2845	3086	3350	3613	3891
47.5°	1792	1975	2179	2377	2604	2845	3108	3401	3693	4022	4373
45°	1894	2092	2311	2552	2801	3086	3401	3723	4096	4469	4878
42.5°	1997	2209	2457	2713	3020	3342	3686	4096	4512	4973	5470
40°	2084	2326	2604	2911	3240	3598	4022	4469	4980	5529	6143
37.5°	2187	2450	2750	3086	3467	3883	4373	4893	5485	6151	6889
35°	2282	2574	2903	3269	3693	4176	4725	5332	6019	6823	7723
32.5°	2377	2699	3050	3452	3920	4469	5090	5807	6619	7540	8666
30°	2472	2808	3189	3627	4154	4776	5492	6290	7226	8389	9727
27.5°	2560	2925	3335	3818	4381	5061	5873	6823	7928	9237	10802
25°	2648	3028	3474	3993	4622	5368	6253	7299	8623	10173	12031
22.5°	2728	3130	3598	4161	4842	5668	6663	7855	9310	11036	13223
20°	2808	3233	3730	4322	5032	5939	7036	8367	10019	12053	14481
17.5°	2874	3328	3854	4490	5266	6216	7379	8879	10663	12989	15695
15°	2940	3408	3964	4637	5470	6494	7752	9325	11343	13874	16748
12.5°	2991	3474	4059	4768	5646	6728	8074	9778	12001	14707	17662
10°	3028	3532	4132	4871	5792	6919	8337	10144	12535	15387	18423
7.5°	3064	3576	4191	4951	5902	7065	8542	10429	12945	15914	19008
5°	3094	3613	4235	5010	5975	7174	8696	10612	13237	16287	19424
2.5°	3116	3642	4271	5061	6034	7292	8835	10809	13515	16601	19797
0°	3116	3649	4271	5061	6026	7313	8857	10824	13552	16594	19849
-2.5°	3116	3642	4271	5061	6034	7292	8835	10809	13515	16601	19797
-5°	3094	3613	4235	5010	5975	7174	8696	10612	13237	16287	19424
-7.5°	3064	3576	4191	4951	5902	7065	8542	10429	12945	15914	19008
-10°	3028	3532	4132	4871	5792	6919	8337	10144	12535	15387	18423
-12.5°	2991	3474	4059	4768	5646	6728	8074	9778	12001	14707	17662
-15°	2940	3408	3964	4637	5470	6494	7752	9325	11343	13874	16748
-17.5°	2874	3328	3854	4490	5266	6216	7379	8879	10663	12989	15695
-20°	2808	3233	3730	4322	5032	5939	7036	8367	10019	12053	14481



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2728	3130	3598	4161	4842	5668	6663	7855	9310	11036	13223
-25°	2648	3028	3474	3993	4622	5368	6253	7299	8623	10173	12031
-27.5°	2560	2925	3335	3818	4381	5061	5873	6823	7928	9237	10802
-30°	2472	2808	3189	3627	4154	4776	5492	6290	7226	8389	9727
-32.5°	2377	2699	3050	3452	3920	4469	5090	5807	6619	7540	8666
-35°	2282	2574	2903	3269	3693	4176	4725	5332	6019	6823	7723
-37.5°	2187	2450	2750	3086	3467	3883	4373	4893	5485	6151	6889
-40°	2084	2326	2604	2911	3240	3598	4022	4469	4980	5529	6143
-42.5°	1997	2209	2457	2713	3020	3342	3686	4096	4512	4973	5470
-45°	1894	2092	2311	2552	2801	3086	3401	3723	4096	4469	4878
-47.5°	1792	1975	2179	2377	2604	2845	3108	3401	3693	4022	4373
-50°	1697	1865	2033	2216	2413	2618	2845	3086	3350	3613	3891
-52.5°	1594	1748	1902	2055	2231	2406	2596	2801	3020	3247	3474
-55°	1492	1638	1770	1909	2048	2209	2370	2545	2713	2911	3094
-57.5°	1397	1521	1638	1763	1887	2011	2158	2296	2450	2604	2750
-60°	1309	1412	1514	1624	1733	1843	1945	2070	2201	2318	2450
-62.5°	1221	1302	1390	1477	1572	1668	1763	1858	1967	2070	2172
-65°	1126	1199	1273	1346	1426	1507	1587	1660	1741	1836	1916
-67.5°	1031	1097	1156	1221	1280	1346	1412	1477	1543	1616	1689
-70°	943	987	1046	1097	1141	1185	1236	1295	1353	1419	1477
-72.5°	848	885	929	980	1002	1017	1053	1097	1156	1221	1280
-75°	731	783	805	834	848	841	841	856	914	995	1068
-77.5°	600	636	666	695	688	680	666	651	702	768	834
-80°	468	497	527	549	549	527	505	475	527	592	658
-82.5°	358	380	395	410	410	395	380	358	402	446	497
-85°	241	263	271	285	278	263	256	241	271	300	336
-87.5°	124	132	139	139	139	132	124	117	132	146	161
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	183	183	183	183	176	183	183	190	198	176	154
85°	366	373	373	373	373	373	373	373	373	336	300
82.5°	549	570	585	607	622	622	614	607	592	534	468
80°	724	761	783	805	826	819	812	797	790	717	644
77.5°	900	943	973	995	1017	1024	1017	1017	1009	943	863
75°	1126	1163	1192	1221	1251	1265	1273	1273	1273	1214	1141
72.5°	1331	1375	1419	1463	1499	1521	1543	1558	1572	1543	1499
70°	1543	1594	1646	1697	1748	1785	1814	1843	1858	1865	1865
67.5°	1763	1828	1894	1960	2019	2070	2106	2143	2172	2201	2216
65°	2004	2092	2172	2245	2311	2377	2428	2479	2523	2560	2582
62.5°	2275	2377	2472	2567	2640	2721	2801	2874	2933	2984	3020
60°	2574	2699	2816	2933	3050	3145	3247	3335	3408	3474	3532
57.5°	2911	3064	3211	3364	3496	3620	3745	3869	3979	4066	4139
55°	3284	3474	3664	3847	4030	4198	4359	4520	4666	4783	4885
52.5°	3715	3942	4183	4410	4659	4878	5083	5302	5500	5675	5822
50°	4176	4469	4783	5076	5397	5705	5982	6260	6538	6780	6977
47.5°	4717	5068	5478	5880	6275	6692	7079	7445	7825	8147	8418
45°	5302	5792	6275	6816	7313	7877	8410	8944	9412	9880	10275
42.5°	5997	6611	7226	7920	8601	9310	10063	10736	11438	12126	12696
40°	6823	7547	8396	9230	10173	11065	12133	13076	13969	14839	15578
37.5°	7730	8688	9734	10795	12074	13332	14583	15768	16828	17801	18576
35°	8776	9983	11226	12769	14290	15826	17260	18605	19812	20799	21618
32.5°	9976	11402	13120	14912	16675	18379	20090	21421	22679	23805	24771
30°	11248	13106	15110	17113	19037	20887	22613	24215	25677	26943	28025
27.5°	12740	14890	17121	19271	21333	23330	25290	27118	28720	30051	31396
25°	14217	16682	19066	21341	23571	25802	27959	30014	31886	33517	34973
22.5°	15775	18349	20865	23279	25809	28237	30599	32940	35090	36969	38607
20°	17216	19980	22547	25239	27981	30614	33269	35799	38198	40465	42330
17.5°	18503	21319	24120	26957	29948	32932	35814	38556	41292	43932	46257
15°	19651	22606	25480	28574	31799	35009	38220	41240	44319	47245	49848
12.5°	20668	23717	26774	30065	33437	36779	40297	43807	47223	50375	53198
10°	21509	24675	27952	31360	34863	38395	42184	46082	49738	53088	56160
7.5°	22145	25399	28822	32362	36055	39836	43793	47764	51633	55231	58449
5°	22598	25882	29400	33013	36860	40809	45029	49263	53212	56935	60226
2.5°	23008	26314	29897	33371	37291	41387	45614	50002	54039	57864	61528
0°	23118	26489	30109	33678	37489	41599	45906	50192	54331	58485	61930
-2.5°	23008	26314	29897	33371	37291	41387	45614	50002	54039	57864	61528
-5°	22598	25882	29400	33013	36860	40809	45029	49263	53212	56935	60226
-7.5°	22145	25399	28822	32362	36055	39836	43793	47764	51633	55231	58449
-10°	21509	24675	27952	31360	34863	38395	42184	46082	49738	53088	56160
-12.5°	20668	23717	26774	30065	33437	36779	40297	43807	47223	50375	53198
-15°	19651	22606	25480	28574	31799	35009	38220	41240	44319	47245	49848
-17.5°	18503	21319	24120	26957	29948	32932	35814	38556	41292	43932	46257
-20°	17216	19980	22547	25239	27981	30614	33269	35799	38198	40465	42330



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15775	18349	20865	23279	25809	28237	30599	32940	35090	36969	38607
-25°	14217	16682	19066	21341	23571	25802	27959	30014	31886	33517	34973
-27.5°	12740	14890	17121	19271	21333	23330	25290	27118	28720	30051	31396
-30°	11248	13106	15110	17113	19037	20887	22613	24215	25677	26943	28025
-32.5°	9976	11402	13120	14912	16675	18379	20090	21421	22679	23805	24771
-35°	8776	9983	11226	12769	14290	15826	17260	18605	19812	20799	21618
-37.5°	7730	8688	9734	10795	12074	13332	14583	15768	16828	17801	18576
-40°	6823	7547	8396	9230	10173	11065	12133	13076	13969	14839	15578
-42.5°	5997	6611	7226	7920	8601	9310	10063	10736	11438	12126	12696
-45°	5302	5792	6275	6816	7313	7877	8410	8944	9412	9880	10275
-47.5°	4717	5068	5478	5880	6275	6692	7079	7445	7825	8147	8418
-50°	4176	4469	4783	5076	5397	5705	5982	6260	6538	6780	6977
-52.5°	3715	3942	4183	4410	4659	4878	5083	5302	5500	5675	5822
-55°	3284	3474	3664	3847	4030	4198	4359	4520	4666	4783	4885
-57.5°	2911	3064	3211	3364	3496	3620	3745	3869	3979	4066	4139
-60°	2574	2699	2816	2933	3050	3145	3247	3335	3408	3474	3532
-62.5°	2275	2377	2472	2567	2640	2721	2801	2874	2933	2984	3020
-65°	2004	2092	2172	2245	2311	2377	2428	2479	2523	2560	2582
-67.5°	1763	1828	1894	1960	2019	2070	2106	2143	2172	2201	2216
-70°	1543	1594	1646	1697	1748	1785	1814	1843	1858	1865	1865
-72.5°	1331	1375	1419	1463	1499	1521	1543	1558	1572	1543	1499
-75°	1126	1163	1192	1221	1251	1265	1273	1273	1273	1214	1141
-77.5°	900	943	973	995	1017	1024	1017	1017	1009	943	863
-80°	724	761	783	805	826	819	812	797	790	717	644
-82.5°	549	570	585	607	622	622	614	607	592	534	468
-85°	366	373	373	373	373	373	373	373	373	336	300
-87.5°	183	183	183	183	176	183	183	190	198	176	154
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	124	102	95	80	95	102	124	154	176	198	190
85°	256	212	205	190	205	212	256	300	336	373	373
82.5°	410	336	322	307	322	336	410	468	534	592	607
80°	578	490	475	461	475	490	578	644	717	790	797
77.5°	783	702	673	651	673	702	783	863	943	1009	1017
75°	1060	980	958	936	958	980	1060	1141	1214	1273	1273
72.5°	1448	1412	1353	1302	1353	1412	1448	1499	1543	1572	1558
70°	1872	1887	1872	1850	1872	1887	1872	1865	1865	1858	1843
67.5°	2223	2238	2238	2245	2238	2238	2223	2216	2201	2172	2143
65°	2604	2611	2633	2640	2633	2611	2604	2582	2560	2523	2479
62.5°	3042	3064	3079	3079	3079	3064	3042	3020	2984	2933	2874
60°	3569	3598	3635	3642	3635	3598	3569	3532	3474	3408	3335
57.5°	4198	4235	4286	4300	4286	4235	4198	4139	4066	3979	3869
55°	4959	5010	5039	5024	5039	5010	4959	4885	4783	4666	4520
52.5°	5946	6034	6092	6063	6092	6034	5946	5822	5675	5500	5302
50°	7138	7248	7321	7299	7321	7248	7138	6977	6780	6538	6260
47.5°	8630	8783	8908	8915	8908	8783	8630	8418	8147	7825	7445
45°	10590	10817	10985	10956	10985	10817	10590	10275	9880	9412	8944
42.5°	13135	13449	13698	13676	13698	13449	13135	12696	12126	11438	10736
40°	16126	16514	16843	16931	16843	16514	16126	15578	14839	13969	13076
37.5°	19205	19702	20119	20075	20119	19702	19205	18576	17801	16828	15768
35°	22299	22818	23227	23264	23227	22818	22299	21618	20799	19812	18605
32.5°	25538	26116	26599	26665	26599	26116	25538	24771	23805	22679	21421
30°	28917	29612	30190	30307	30190	29612	28917	28025	26943	25677	24215
27.5°	32472	33298	33846	34059	33846	33298	32472	31396	30051	28720	27118
25°	36136	37035	37649	37993	37649	37035	36136	34973	33517	31886	30014
22.5°	39960	41028	41825	42206	41825	41028	39960	38607	36969	35090	32940
20°	43910	45073	46001	46396	46001	45073	43910	42330	40465	38198	35799
17.5°	47932	49351	50382	50887	50382	49351	47932	46257	43932	41292	38556
15°	51837	53344	54463	55004	54463	53344	51837	49848	47245	44319	41240
12.5°	55458	57052	58171	58953	58171	57052	55458	53198	50375	47223	43807
10°	58690	60431	61564	62376	61564	60431	58690	56160	53088	49738	46082
7.5°	61111	63312	64592	65389	64592	63312	61111	58449	55231	51633	47764
5°	62968	65396	66559	67313	66559	65396	62968	60226	56935	53212	49263
2.5°	64329	66245	67700	68453	67700	66245	64329	61528	57864	54039	50002
0°	64863	67115	68146	68636	68146	67115	64863	61930	58485	54331	50192
-2.5°	64329	66245	67700	68453	67700	66245	64329	61528	57864	54039	50002
-5°	62968	65396	66559	67313	66559	65396	62968	60226	56935	53212	49263
-7.5°	61111	63312	64592	65389	64592	63312	61111	58449	55231	51633	47764
-10°	58690	60431	61564	62376	61564	60431	58690	56160	53088	49738	46082
-12.5°	55458	57052	58171	58953	58171	57052	55458	53198	50375	47223	43807
-15°	51837	53344	54463	55004	54463	53344	51837	49848	47245	44319	41240
-17.5°	47932	49351	50382	50887	50382	49351	47932	46257	43932	41292	38556
-20°	43910	45073	46001	46396	46001	45073	43910	42330	40465	38198	35799



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	39960	41028	41825	42206	41825	41028	39960	38607	36969	35090	32940
-25°	36136	37035	37649	37993	37649	37035	36136	34973	33517	31886	30014
-27.5°	32472	33298	33846	34059	33846	33298	32472	31396	30051	28720	27118
-30°	28917	29612	30190	30307	30190	29612	28917	28025	26943	25677	24215
-32.5°	25538	26116	26599	26665	26599	26116	25538	24771	23805	22679	21421
-35°	22299	22818	23227	23264	23227	22818	22299	21618	20799	19812	18605
-37.5°	19205	19702	20119	20075	20119	19702	19205	18576	17801	16828	15768
-40°	16126	16514	16843	16931	16843	16514	16126	15578	14839	13969	13076
-42.5°	13135	13449	13698	13676	13698	13449	13135	12696	12126	11438	10736
-45°	10590	10817	10985	10956	10985	10817	10590	10275	9880	9412	8944
-47.5°	8630	8783	8908	8915	8908	8783	8630	8418	8147	7825	7445
-50°	7138	7248	7321	7299	7321	7248	7138	6977	6780	6538	6260
-52.5°	5946	6034	6092	6063	6092	6034	5946	5822	5675	5500	5302
-55°	4959	5010	5039	5024	5039	5010	4959	4885	4783	4666	4520
-57.5°	4198	4235	4286	4300	4286	4235	4198	4139	4066	3979	3869
-60°	3569	3598	3635	3642	3635	3598	3569	3532	3474	3408	3335
-62.5°	3042	3064	3079	3079	3079	3064	3042	3020	2984	2933	2874
-65°	2604	2611	2633	2640	2633	2611	2604	2582	2560	2523	2479
-67.5°	2223	2238	2238	2245	2238	2238	2223	2216	2201	2172	2143
-70°	1872	1887	1872	1850	1872	1887	1872	1865	1865	1858	1843
-72.5°	1448	1412	1353	1302	1353	1412	1448	1499	1543	1572	1558
-75°	1060	980	958	936	958	980	1060	1141	1214	1273	1273
-77.5°	783	702	673	651	673	702	783	863	943	1009	1017
-80°	578	490	475	461	475	490	578	644	717	790	797
-82.5°	410	336	322	307	322	336	410	468	534	592	607
-85°	256	212	205	190	205	212	256	300	336	373	373
-87.5°	124	102	95	80	95	102	124	154	176	198	190
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	183	183	176	183	183	183	183	161	146	132	117
85°	373	373	373	373	373	373	366	336	300	271	241
82.5°	614	622	622	607	585	570	549	497	446	402	358
80°	812	819	826	805	783	761	724	658	592	527	475
77.5°	1017	1024	1017	995	973	943	900	834	768	702	651
75°	1273	1265	1251	1221	1192	1163	1126	1068	995	914	856
72.5°	1543	1521	1499	1463	1419	1375	1331	1280	1221	1156	1097
70°	1814	1785	1748	1697	1646	1594	1543	1477	1419	1353	1295
67.5°	2106	2070	2019	1960	1894	1828	1763	1689	1616	1543	1477
65°	2428	2377	2311	2245	2172	2092	2004	1916	1836	1741	1660
62.5°	2801	2721	2640	2567	2472	2377	2275	2172	2070	1967	1858
60°	3247	3145	3050	2933	2816	2699	2574	2450	2318	2201	2070
57.5°	3745	3620	3496	3364	3211	3064	2911	2750	2604	2450	2296
55°	4359	4198	4030	3847	3664	3474	3284	3094	2911	2713	2545
52.5°	5083	4878	4659	4410	4183	3942	3715	3474	3247	3020	2801
50°	5982	5705	5397	5076	4783	4469	4176	3891	3613	3350	3086
47.5°	7079	6692	6275	5880	5478	5068	4717	4373	4022	3693	3401
45°	8410	7877	7313	6816	6275	5792	5302	4878	4469	4096	3723
42.5°	10063	9310	8601	7920	7226	6611	5997	5470	4973	4512	4096
40°	12133	11065	10173	9230	8396	7547	6823	6143	5529	4980	4469
37.5°	14583	13332	12074	10795	9734	8688	7730	6889	6151	5485	4893
35°	17260	15826	14290	12769	11226	9983	8776	7723	6823	6019	5332
32.5°	20090	18379	16675	14912	13120	11402	9976	8666	7540	6619	5807
30°	22613	20887	19037	17113	15110	13106	11248	9727	8389	7226	6290
27.5°	25290	23330	21333	19271	17121	14890	12740	10802	9237	7928	6823
25°	27959	25802	23571	21341	19066	16682	14217	12031	10173	8623	7299
22.5°	30599	28237	25809	23279	20865	18349	15775	13223	11036	9310	7855
20°	33269	30614	27981	25239	22547	19980	17216	14481	12053	10019	8367
17.5°	35814	32932	29948	26957	24120	21319	18503	15695	12989	10663	8879
15°	38220	35009	31799	28574	25480	22606	19651	16748	13874	11343	9325
12.5°	40297	36779	33437	30065	26774	23717	20668	17662	14707	12001	9778
10°	42184	38395	34863	31360	27952	24675	21509	18423	15387	12535	10144
7.5°	43793	39836	36055	32362	28822	25399	22145	19008	15914	12945	10429
5°	45029	40809	36860	33013	29400	25882	22598	19424	16287	13237	10612
2.5°	45614	41387	37291	33371	29897	26314	23008	19797	16601	13515	10809
0°	45906	41599	37489	33678	30109	26489	23118	19849	16594	13552	10824
-2.5°	45614	41387	37291	33371	29897	26314	23008	19797	16601	13515	10809
-5°	45029	40809	36860	33013	29400	25882	22598	19424	16287	13237	10612
-7.5°	43793	39836	36055	32362	28822	25399	22145	19008	15914	12945	10429
-10°	42184	38395	34863	31360	27952	24675	21509	18423	15387	12535	10144
-12.5°	40297	36779	33437	30065	26774	23717	20668	17662	14707	12001	9778
-15°	38220	35009	31799	28574	25480	22606	19651	16748	13874	11343	9325
-17.5°	35814	32932	29948	26957	24120	21319	18503	15695	12989	10663	8879
-20°	33269	30614	27981	25239	22547	19980	17216	14481	12053	10019	8367



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	30599	28237	25809	23279	20865	18349	15775	13223	11036	9310	7855
-25°	27959	25802	23571	21341	19066	16682	14217	12031	10173	8623	7299
-27.5°	25290	23330	21333	19271	17121	14890	12740	10802	9237	7928	6823
-30°	22613	20887	19037	17113	15110	13106	11248	9727	8389	7226	6290
-32.5°	20090	18379	16675	14912	13120	11402	9976	8666	7540	6619	5807
-35°	17260	15826	14290	12769	11226	9983	8776	7723	6823	6019	5332
-37.5°	14583	13332	12074	10795	9734	8688	7730	6889	6151	5485	4893
-40°	12133	11065	10173	9230	8396	7547	6823	6143	5529	4980	4469
-42.5°	10063	9310	8601	7920	7226	6611	5997	5470	4973	4512	4096
-45°	8410	7877	7313	6816	6275	5792	5302	4878	4469	4096	3723
-47.5°	7079	6692	6275	5880	5478	5068	4717	4373	4022	3693	3401
-50°	5982	5705	5397	5076	4783	4469	4176	3891	3613	3350	3086
-52.5°	5083	4878	4659	4410	4183	3942	3715	3474	3247	3020	2801
-55°	4359	4198	4030	3847	3664	3474	3284	3094	2911	2713	2545
-57.5°	3745	3620	3496	3364	3211	3064	2911	2750	2604	2450	2296
-60°	3247	3145	3050	2933	2816	2699	2574	2450	2318	2201	2070
-62.5°	2801	2721	2640	2567	2472	2377	2275	2172	2070	1967	1858
-65°	2428	2377	2311	2245	2172	2092	2004	1916	1836	1741	1660
-67.5°	2106	2070	2019	1960	1894	1828	1763	1689	1616	1543	1477
-70°	1814	1785	1748	1697	1646	1594	1543	1477	1419	1353	1295
-72.5°	1543	1521	1499	1463	1419	1375	1331	1280	1221	1156	1097
-75°	1273	1265	1251	1221	1192	1163	1126	1068	995	914	856
-77.5°	1017	1024	1017	995	973	943	900	834	768	702	651
-80°	812	819	826	805	783	761	724	658	592	527	475
-82.5°	614	622	622	607	585	570	549	497	446	402	358
-85°	373	373	373	373	373	373	366	336	300	271	241
-87.5°	183	183	176	183	183	183	183	161	146	132	117
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	124	132	139	139	139	132	124	117	102	95	88
85°	256	263	278	285	271	263	241	227	212	190	176
82.5°	380	395	410	410	395	380	358	336	315	285	256
80°	505	527	549	549	527	497	468	439	410	373	336
77.5°	666	680	688	695	666	636	600	549	505	461	417
75°	841	841	848	834	805	783	731	673	607	549	490
72.5°	1053	1017	1002	980	929	885	848	797	709	629	563
70°	1236	1185	1141	1097	1046	987	943	878	805	709	629
67.5°	1412	1346	1280	1221	1156	1097	1031	951	870	783	695
65°	1587	1507	1426	1346	1273	1199	1126	1031	936	848	753
62.5°	1763	1668	1572	1477	1390	1302	1221	1112	1002	907	805
60°	1945	1843	1733	1624	1514	1412	1309	1192	1075	958	856
57.5°	2158	2011	1887	1763	1638	1521	1397	1273	1148	1024	900
55°	2370	2209	2048	1909	1770	1638	1492	1353	1214	1082	943
52.5°	2596	2406	2231	2055	1902	1748	1594	1448	1287	1141	973
50°	2845	2618	2413	2216	2033	1865	1697	1529	1360	1199	1009
47.5°	3108	2845	2604	2377	2179	1975	1792	1616	1433	1265	1046
45°	3401	3086	2801	2552	2311	2092	1894	1697	1507	1309	1068
42.5°	3686	3342	3020	2713	2457	2209	1997	1785	1580	1346	1104
40°	4022	3598	3240	2911	2604	2326	2084	1865	1653	1390	1134
37.5°	4373	3883	3467	3086	2750	2450	2187	1938	1704	1433	1163
35°	4725	4176	3693	3269	2903	2574	2282	2019	1755	1470	1192
32.5°	5090	4469	3920	3452	3050	2699	2377	2092	1814	1514	1214
30°	5492	4776	4154	3627	3189	2808	2472	2165	1872	1550	1236
27.5°	5873	5061	4381	3818	3335	2925	2560	2238	1938	1587	1265
25°	6253	5368	4622	3993	3474	3028	2648	2304	1997	1631	1287
22.5°	6663	5668	4842	4161	3598	3130	2728	2377	2048	1675	1309
20°	7036	5939	5032	4322	3730	3233	2808	2435	2092	1719	1331
17.5°	7379	6216	5266	4490	3854	3328	2874	2487	2136	1755	1346
15°	7752	6494	5470	4637	3964	3408	2940	2538	2172	1792	1353
12.5°	8074	6728	5646	4768	4059	3474	2991	2574	2209	1828	1368
10°	8337	6919	5792	4871	4132	3532	3028	2611	2231	1850	1375
7.5°	8542	7065	5902	4951	4191	3576	3064	2633	2253	1872	1375
5°	8696	7174	5975	5010	4235	3613	3094	2655	2275	1902	1382
2.5°	8835	7292	6034	5061	4271	3642	3116	2669	2275	1894	1368
0°	8857	7313	6026	5061	4271	3649	3116	2669	2267	1887	1353
-2.5°	8835	7292	6034	5061	4271	3642	3116	2669	2275	1894	1368
-5°	8696	7174	5975	5010	4235	3613	3094	2655	2275	1902	1382
-7.5°	8542	7065	5902	4951	4191	3576	3064	2633	2253	1872	1375
-10°	8337	6919	5792	4871	4132	3532	3028	2611	2231	1850	1375
-12.5°	8074	6728	5646	4768	4059	3474	2991	2574	2209	1828	1368
-15°	7752	6494	5470	4637	3964	3408	2940	2538	2172	1792	1353
-17.5°	7379	6216	5266	4490	3854	3328	2874	2487	2136	1755	1346
-20°	7036	5939	5032	4322	3730	3233	2808	2435	2092	1719	1331



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	6663	5668	4842	4161	3598	3130	2728	2377	2048	1675	1309
-25°	6253	5368	4622	3993	3474	3028	2648	2304	1997	1631	1287
-27.5°	5873	5061	4381	3818	3335	2925	2560	2238	1938	1587	1265
-30°	5492	4776	4154	3627	3189	2808	2472	2165	1872	1550	1236
-32.5°	5090	4469	3920	3452	3050	2699	2377	2092	1814	1514	1214
-35°	4725	4176	3693	3269	2903	2574	2282	2019	1755	1470	1192
-37.5°	4373	3883	3467	3086	2750	2450	2187	1938	1704	1433	1163
-40°	4022	3598	3240	2911	2604	2326	2084	1865	1653	1390	1134
-42.5°	3686	3342	3020	2713	2457	2209	1997	1785	1580	1346	1104
-45°	3401	3086	2801	2552	2311	2092	1894	1697	1507	1309	1068
-47.5°	3108	2845	2604	2377	2179	1975	1792	1616	1433	1265	1046
-50°	2845	2618	2413	2216	2033	1865	1697	1529	1360	1199	1009
-52.5°	2596	2406	2231	2055	1902	1748	1594	1448	1287	1141	973
-55°	2370	2209	2048	1909	1770	1638	1492	1353	1214	1082	943
-57.5°	2158	2011	1887	1763	1638	1521	1397	1273	1148	1024	900
-60°	1945	1843	1733	1624	1514	1412	1309	1192	1075	958	856
-62.5°	1763	1668	1572	1477	1390	1302	1221	1112	1002	907	805
-65°	1587	1507	1426	1346	1273	1199	1126	1031	936	848	753
-67.5°	1412	1346	1280	1221	1156	1097	1031	951	870	783	695
-70°	1236	1185	1141	1097	1046	987	943	878	805	709	629
-72.5°	1053	1017	1002	980	929	885	848	797	709	629	563
-75°	841	841	848	834	805	783	731	673	607	549	490
-77.5°	666	680	688	695	666	636	600	549	505	461	417
-80°	505	527	549	549	527	497	468	439	410	373	336
-82.5°	380	395	410	410	395	380	358	336	315	285	256
-85°	256	263	278	285	271	263	241	227	212	190	176
-87.5°	124	132	139	139	139	132	124	117	102	95	88
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622082
 CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	73	59	44	29	15	7	0
85°	154	117	80	51	29	15	0
82.5°	227	168	124	80	51	22	0
80°	300	227	161	110	66	29	0
77.5°	366	278	205	132	80	37	0
75°	424	322	241	161	95	44	0
72.5°	483	366	271	183	110	51	0
70°	541	410	300	212	124	59	0
67.5°	585	446	329	227	139	66	0
65°	622	483	351	241	154	66	0
62.5°	658	512	373	256	168	73	0
60°	702	541	402	271	176	80	0
57.5°	731	563	417	285	183	88	0
55°	761	592	432	300	198	95	0
52.5°	790	614	453	307	205	95	0
50°	812	636	468	315	212	102	0
47.5°	841	651	475	322	219	110	0
45°	863	673	490	329	227	110	0
42.5°	885	688	497	336	227	117	0
40°	907	695	512	351	234	124	0
37.5°	922	709	519	358	241	124	0
35°	929	717	527	366	249	132	0
32.5°	943	731	534	380	249	132	0
30°	965	731	534	388	256	132	0
27.5°	980	739	549	388	256	139	0
25°	987	739	556	395	263	139	0
22.5°	995	746	563	402	263	139	0
20°	1002	753	570	410	271	146	0
17.5°	1009	768	578	410	271	146	0
15°	1024	775	578	410	271	154	0
12.5°	1031	775	578	417	271	154	0
10°	1039	783	578	417	278	146	0
7.5°	1039	783	585	417	278	146	0
5°	1039	790	578	417	271	146	0
2.5°	1024	790	578	410	271	146	0
0°	1017	783	570	410	271	146	0
-2.5°	1024	790	578	410	271	146	0
-5°	1039	790	578	417	271	146	0
-7.5°	1039	783	585	417	278	146	0
-10°	1039	783	578	417	278	146	0
-12.5°	1031	775	578	417	271	154	0
-15°	1024	775	578	410	271	154	0
-17.5°	1009	768	578	410	271	146	0
-20°	1002	753	570	410	271	146	0



REPORT NUMBER: P622082

CATALOG NUMBER: EPH-VN-08-E-735-U-66

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	995	746	563	402	263	139	0
-25°	987	739	556	395	263	139	0
-27.5°	980	739	549	388	256	139	0
-30°	965	731	534	388	256	132	0
-32.5°	943	731	534	380	249	132	0
-35°	929	717	527	366	249	132	0
-37.5°	922	709	519	358	241	124	0
-40°	907	695	512	351	234	124	0
-42.5°	885	688	497	336	227	117	0
-45°	863	673	490	329	227	110	0
-47.5°	841	651	475	322	219	110	0
-50°	812	636	468	315	212	102	0
-52.5°	790	614	453	307	205	95	0
-55°	761	592	432	300	198	95	0
-57.5°	731	563	417	285	183	88	0
-60°	702	541	402	271	176	80	0
-62.5°	658	512	373	256	168	73	0
-65°	622	483	351	241	154	66	0
-67.5°	585	446	329	227	139	66	0
-70°	541	410	300	212	124	59	0
-72.5°	483	366	271	183	110	51	0
-75°	424	322	241	161	95	44	0
-77.5°	366	278	205	132	80	37	0
-80°	300	227	161	110	66	29	0
-82.5°	227	168	124	80	51	22	0
-85°	154	117	80	51	29	15	0
-87.5°	73	59	44	29	15	7	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)