

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: P622083

Luminaire Tested: **EPH-VN-08-E-740-U-66**

Issue Date: 09/20/2022

Test Information

Test Method: LM-79-2019
Report Number: P622083
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/20/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-E-740-U-66
Description: EPHEBUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

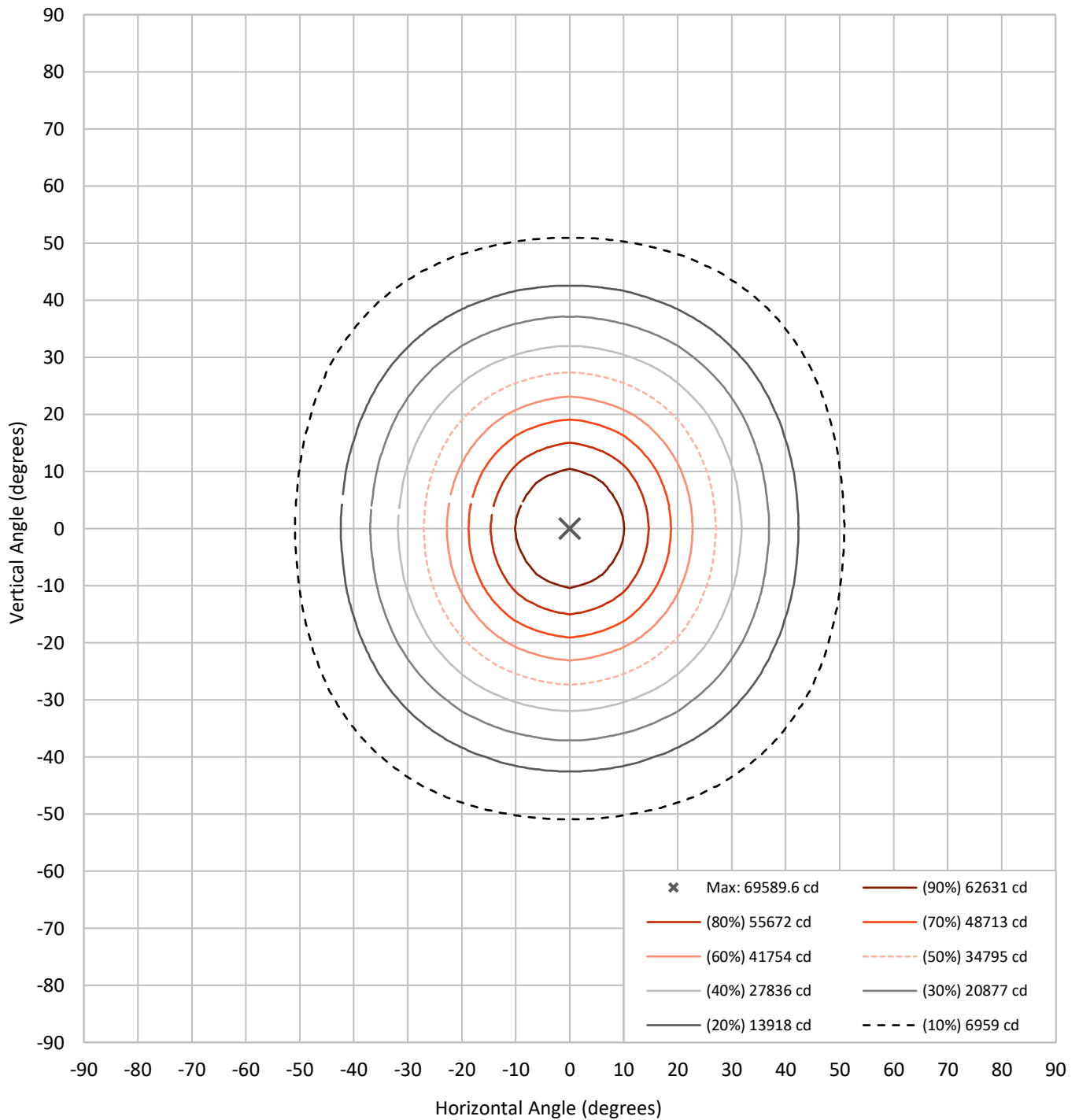
Lumens per Lamp:	N/A	NEMA Type:	6H x 6V
Luminaire Lumens:	72175.9 lumens	Max Intensity:	69589.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	115.1 lumens/watt		
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')		
Beam Angle (50%):	54.2°H x 54.7°V	Field Angle (10%):	101.7°H x 101.8°V
Beam Lumens:	34702.4 lumens	Field Lumens:	63341.5 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



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Iso-Candela Plot





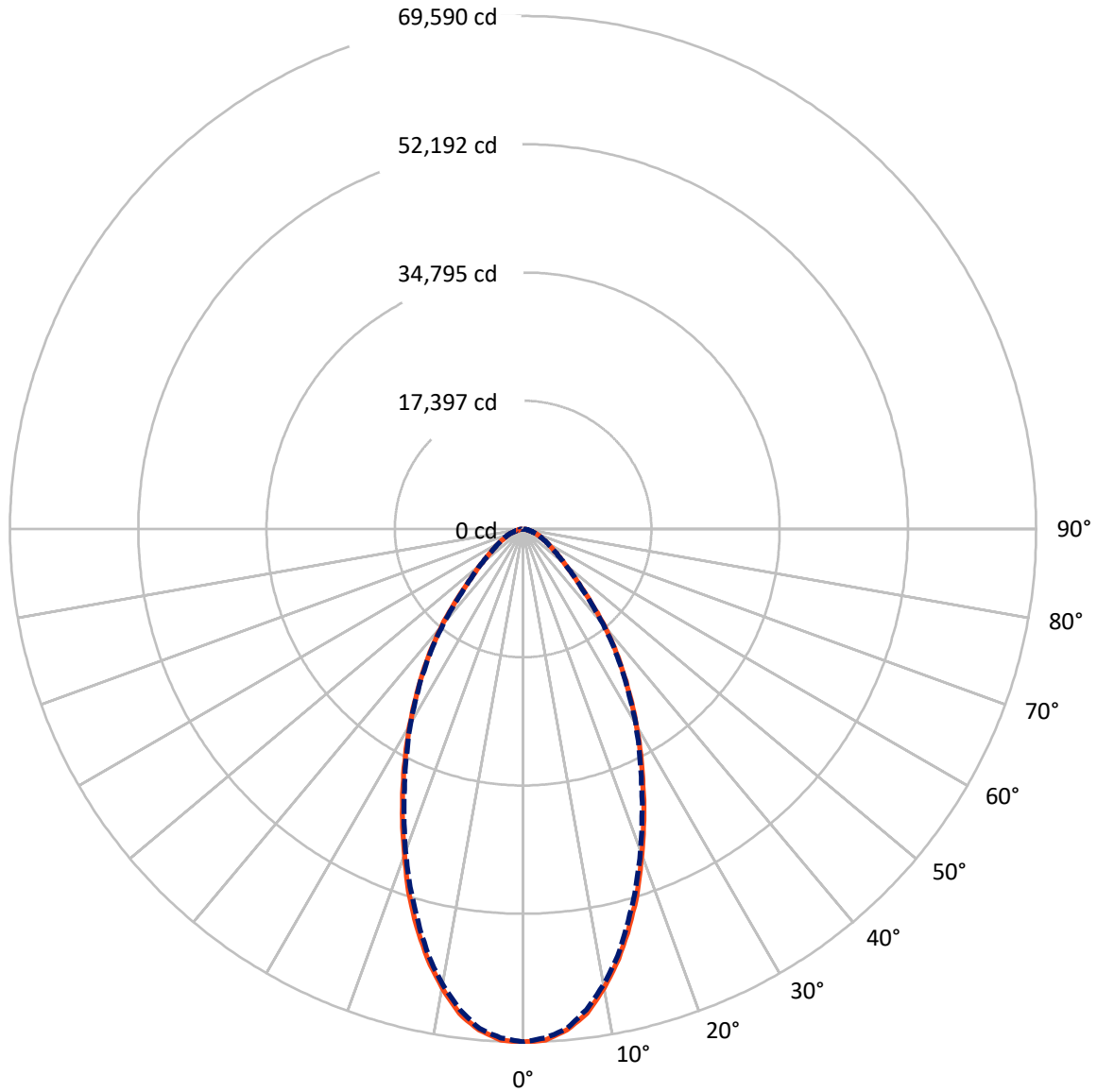
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Lumen Table

90																			
80	5.1	31.0		62.3		94.9		81.5		94.9		62.3		31.0		5.1			
70																			
60	12.7	13.6	24.0	36.6	51.2	65.4	76.3	81.7	81.7	76.3	65.4	51.2	36.6	24.0	13.6	12.7			
		17.9	34.1	56.1	84.1	114.5	142.0	158.5	158.5	142.0	114.5	84.1	56.1	34.1	17.9				
50																			
40	17.1	22.4	45.8	82.6	137.1	210.2	289.5	343.3	343.3	289.5	210.2	137.1	82.6	45.8	22.4	17.1			
		26.7	59.1	118.9	228.2	403.6	586.9	700.9	700.9	586.9	403.6	228.2	118.9	59.1	26.7				
30																			
20	19.7	30.7	72.7	164.9	365.2	659.0	946.6	1136.1	1136.1	946.6	659.0	365.2	164.9	72.7	30.7	19.7			
		33.9	84.9	212.1	497.4	887.3	1314.1	1622.5	1622.5	1314.1	887.3	497.4	212.1	84.9	33.9				
10																			
0	20.6	35.7	92.1	243.2	574.1	1029.2	1567.3	1969.9	1969.9	1567.3	1029.2	574.1	243.2	92.1	35.7	20.6			
		35.7	92.1	243.2	574.1	1029.2	1567.3	1969.9	1969.9	1567.3	1029.2	574.1	243.2	92.1	35.7				
-10																			
-20	19.7	33.9	84.9	212.1	497.4	887.3	1314.1	1622.5	1622.5	1314.1	887.3	497.4	212.1	84.9	33.9	19.7			
		30.7	72.7	164.9	365.2	659.0	946.6	1136.1	1136.1	946.6	659.0	365.2	164.9	72.7	30.7				
-30																			
-40	17.1	26.7	59.1	118.9	228.2	403.6	586.9	700.9	700.9	586.9	403.6	228.2	118.9	59.1	26.7	17.1			
		22.4	45.8	82.6	137.1	210.2	289.5	343.3	343.3	289.5	210.2	137.1	82.6	45.8	22.4				
-50																			
-60	12.7	17.9	34.1	56.1	84.1	114.5	142.0	158.5	158.5	142.0	114.5	84.1	56.1	34.1	17.9	12.7			
		13.6	24.0	36.6	51.2	65.4	76.3	81.7	81.7	76.3	65.4	51.2	36.6	24.0	13.6				
-70																			
-80	5.1	31.0		62.3		94.9		81.5		94.9		62.3		31.0		5.1			
-90																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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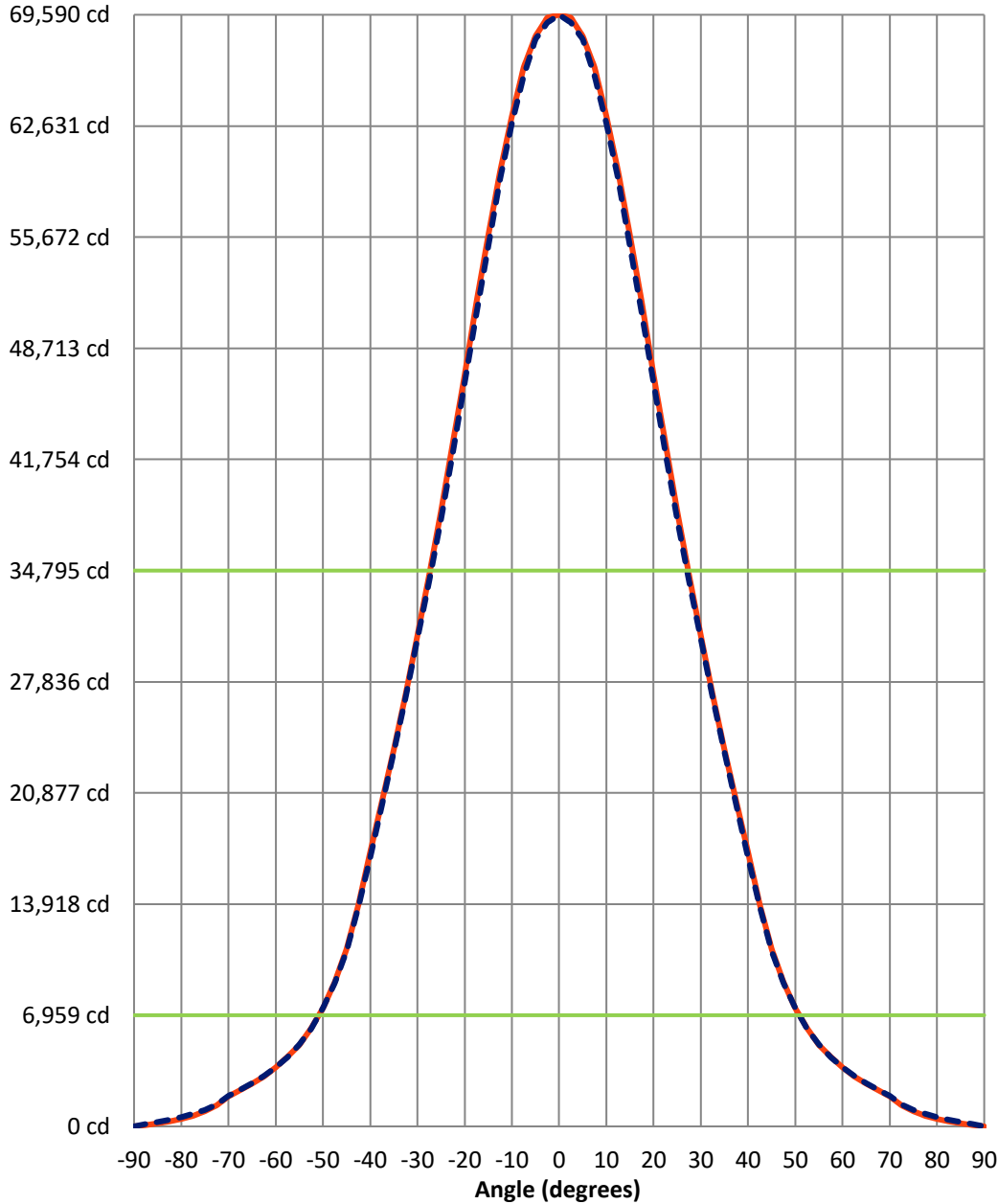
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 54.2°
 V Angle: 54.7°
 Lumens: 34702.4
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 63341.5
 Efficiency: 87.8%

Spill:
 Lumens: 8834.5
 Efficiency: 12.2%

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



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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	30	45	59	74	89	96	104	119
85°	0	15	30	52	82	119	156	178	193	215	230
82.5°	0	22	52	82	126	171	230	260	289	319	341
80°	0	30	67	111	163	230	304	341	378	415	445
77.5°	0	37	82	134	208	282	371	423	467	512	556
75°	0	45	96	163	245	326	430	497	556	615	682
72.5°	0	52	111	185	274	371	489	571	638	719	808
70°	0	59	126	215	304	415	549	638	719	816	890
67.5°	0	67	141	230	334	452	593	704	793	882	964
65°	0	67	156	245	356	489	630	764	860	949	1046
62.5°	0	74	171	260	378	519	667	816	920	1016	1127
60°	0	82	178	274	408	549	712	868	971	1090	1209
57.5°	0	89	185	289	423	571	742	912	1038	1164	1290
55°	0	96	200	304	438	601	771	957	1097	1231	1372
52.5°	0	96	208	311	460	623	801	986	1157	1305	1468
50°	0	104	215	319	475	645	823	1023	1216	1379	1550
47.5°	0	111	222	326	482	660	853	1060	1283	1453	1639
45°	0	111	230	334	497	682	875	1083	1327	1528	1720
42.5°	0	119	230	341	504	697	897	1120	1364	1602	1809
40°	0	126	237	356	519	704	920	1149	1409	1676	1891
37.5°	0	126	245	363	527	719	934	1179	1453	1728	1965
35°	0	134	252	371	534	727	942	1209	1490	1780	2047
32.5°	0	134	252	386	541	742	957	1231	1535	1839	2121
30°	0	134	260	393	541	742	979	1253	1572	1898	2195
27.5°	0	141	260	393	556	749	994	1283	1609	1965	2269
25°	0	141	267	400	564	749	1001	1305	1654	2024	2336
22.5°	0	141	267	408	571	756	1008	1327	1698	2076	2410
20°	0	148	274	415	578	764	1016	1350	1743	2121	2469
17.5°	0	148	274	415	586	779	1023	1364	1780	2165	2521
15°	0	156	274	415	586	786	1038	1372	1817	2202	2573
12.5°	0	156	274	423	586	786	1046	1387	1854	2239	2610
10°	0	148	282	423	586	793	1053	1394	1876	2262	2647
7.5°	0	148	282	423	593	793	1053	1394	1898	2284	2669
5°	0	148	274	423	586	801	1053	1401	1928	2306	2692
2.5°	0	148	274	415	586	801	1038	1387	1921	2306	2707
0°	0	148	274	415	586	801	1038	1387	1921	2306	2707
-2.5°	0	148	274	415	586	801	1038	1387	1921	2306	2707
-5°	0	148	274	423	586	801	1053	1401	1928	2306	2692
-7.5°	0	148	282	423	593	793	1053	1394	1898	2284	2669
-10°	0	148	282	423	586	793	1053	1394	1876	2262	2647
-12.5°	0	156	274	423	586	786	1046	1387	1854	2239	2610
-15°	0	156	274	415	586	786	1038	1372	1817	2202	2573
-17.5°	0	148	274	415	586	779	1023	1364	1780	2165	2521
-20°	0	148	274	415	578	764	1016	1350	1743	2121	2469



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	141	267	408	571	756	1008	1327	1698	2076	2410
-25°	0	141	267	400	564	749	1001	1305	1654	2024	2336
-27.5°	0	141	260	393	556	749	994	1283	1609	1965	2269
-30°	0	134	260	393	541	742	979	1253	1572	1898	2195
-32.5°	0	134	252	386	541	742	957	1231	1535	1839	2121
-35°	0	134	252	371	534	727	942	1209	1490	1780	2047
-37.5°	0	126	245	363	527	719	934	1179	1453	1728	1965
-40°	0	126	237	356	519	704	920	1149	1409	1676	1891
-42.5°	0	119	230	341	504	697	897	1120	1364	1602	1809
-45°	0	111	230	334	497	682	875	1083	1327	1528	1720
-47.5°	0	111	222	326	482	660	853	1060	1283	1453	1639
-50°	0	104	215	319	475	645	823	1023	1216	1379	1550
-52.5°	0	96	208	311	460	623	801	986	1157	1305	1468
-55°	0	96	200	304	438	601	771	957	1097	1231	1372
-57.5°	0	89	185	289	423	571	742	912	1038	1164	1290
-60°	0	82	178	274	408	549	712	868	971	1090	1209
-62.5°	0	74	171	260	378	519	667	816	920	1016	1127
-65°	0	67	156	245	356	489	630	764	860	949	1046
-67.5°	0	67	141	230	334	452	593	704	793	882	964
-70°	0	59	126	215	304	415	549	638	719	816	890
-72.5°	0	52	111	185	274	371	489	571	638	719	808
-75°	0	45	96	163	245	326	430	497	556	615	682
-77.5°	0	37	82	134	208	282	371	423	467	512	556
-80°	0	30	67	111	163	230	304	341	378	415	445
-82.5°	0	22	52	82	126	171	230	260	289	319	341
-85°	0	15	30	52	82	119	156	178	193	215	230
-87.5°	0	7	15	30	45	59	74	89	96	104	119
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	126	134	141	141	141	134	126	119	134	148	163
85°	245	267	274	289	282	267	260	245	274	304	341
82.5°	363	386	400	415	415	400	386	363	408	452	504
80°	475	504	534	556	556	534	512	482	534	601	667
77.5°	608	645	675	704	697	690	675	660	712	779	845
75°	742	793	816	845	860	853	853	868	927	1008	1083
72.5°	860	897	942	994	1016	1031	1068	1112	1172	1238	1298
70°	957	1001	1060	1112	1157	1201	1253	1313	1372	1439	1498
67.5°	1046	1112	1172	1238	1298	1364	1431	1498	1565	1639	1713
65°	1142	1216	1290	1364	1446	1528	1609	1683	1765	1861	1943
62.5°	1238	1320	1409	1498	1594	1691	1787	1883	1995	2098	2202
60°	1327	1431	1535	1646	1757	1869	1972	2098	2232	2351	2484
57.5°	1416	1542	1661	1787	1913	2039	2187	2328	2484	2640	2788
55°	1513	1661	1794	1935	2076	2239	2403	2580	2751	2951	3137
52.5°	1617	1772	1928	2084	2262	2440	2632	2840	3062	3292	3522
50°	1720	1891	2061	2247	2447	2655	2884	3129	3396	3663	3945
47.5°	1817	2002	2210	2410	2640	2884	3151	3448	3745	4078	4434
45°	1921	2121	2343	2588	2840	3129	3448	3774	4152	4531	4946
42.5°	2024	2239	2491	2751	3062	3389	3737	4152	4575	5042	5546
40°	2113	2358	2640	2951	3285	3648	4078	4531	5050	5606	6229
37.5°	2217	2484	2788	3129	3515	3937	4434	4961	5561	6236	6985
35°	2314	2610	2944	3315	3745	4234	4790	5406	6103	6918	7830
32.5°	2410	2736	3092	3500	3974	4531	5161	5888	6711	7645	8787
30°	2506	2847	3233	3678	4212	4842	5569	6377	7326	8505	9862
27.5°	2595	2966	3381	3871	4442	5131	5954	6918	8038	9365	10952
25°	2684	3070	3522	4049	4686	5443	6340	7400	8742	10314	12198
22.5°	2766	3174	3648	4219	4909	5747	6755	7964	9439	11189	13406
20°	2847	3277	3782	4382	5102	6021	7133	8483	10159	12220	14682
17.5°	2914	3374	3908	4553	5339	6303	7482	9002	10811	13169	15913
15°	2981	3455	4019	4701	5546	6585	7860	9454	11501	14066	16980
12.5°	3033	3522	4115	4835	5724	6822	8186	9914	12168	14912	17907
10°	3070	3581	4190	4938	5873	7015	8453	10285	12709	15601	18678
7.5°	3107	3626	4249	5020	5984	7163	8661	10574	13125	16135	19272
5°	3137	3663	4293	5079	6058	7274	8816	10759	13421	16513	19694
2.5°	3159	3693	4330	5131	6117	7393	8957	10959	13703	16832	20072
0°	3159	3700	4330	5131	6110	7415	8980	10974	13740	16825	20124
-2.5°	3159	3693	4330	5131	6117	7393	8957	10959	13703	16832	20072
-5°	3137	3663	4293	5079	6058	7274	8816	10759	13421	16513	19694
-7.5°	3107	3626	4249	5020	5984	7163	8661	10574	13125	16135	19272
-10°	3070	3581	4190	4938	5873	7015	8453	10285	12709	15601	18678
-12.5°	3033	3522	4115	4835	5724	6822	8186	9914	12168	14912	17907
-15°	2981	3455	4019	4701	5546	6585	7860	9454	11501	14066	16980
-17.5°	2914	3374	3908	4553	5339	6303	7482	9002	10811	13169	15913
-20°	2847	3277	3782	4382	5102	6021	7133	8483	10159	12220	14682



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	2766	3174	3648	4219	4909	5747	6755	7964	9439	11189	13406
-25°	2684	3070	3522	4049	4686	5443	6340	7400	8742	10314	12198
-27.5°	2595	2966	3381	3871	4442	5131	5954	6918	8038	9365	10952
-30°	2506	2847	3233	3678	4212	4842	5569	6377	7326	8505	9862
-32.5°	2410	2736	3092	3500	3974	4531	5161	5888	6711	7645	8787
-35°	2314	2610	2944	3315	3745	4234	4790	5406	6103	6918	7830
-37.5°	2217	2484	2788	3129	3515	3937	4434	4961	5561	6236	6985
-40°	2113	2358	2640	2951	3285	3648	4078	4531	5050	5606	6229
-42.5°	2024	2239	2491	2751	3062	3389	3737	4152	4575	5042	5546
-45°	1921	2121	2343	2588	2840	3129	3448	3774	4152	4531	4946
-47.5°	1817	2002	2210	2410	2640	2884	3151	3448	3745	4078	4434
-50°	1720	1891	2061	2247	2447	2655	2884	3129	3396	3663	3945
-52.5°	1617	1772	1928	2084	2262	2440	2632	2840	3062	3292	3522
-55°	1513	1661	1794	1935	2076	2239	2403	2580	2751	2951	3137
-57.5°	1416	1542	1661	1787	1913	2039	2187	2328	2484	2640	2788
-60°	1327	1431	1535	1646	1757	1869	1972	2098	2232	2351	2484
-62.5°	1238	1320	1409	1498	1594	1691	1787	1883	1995	2098	2202
-65°	1142	1216	1290	1364	1446	1528	1609	1683	1765	1861	1943
-67.5°	1046	1112	1172	1238	1298	1364	1431	1498	1565	1639	1713
-70°	957	1001	1060	1112	1157	1201	1253	1313	1372	1439	1498
-72.5°	860	897	942	994	1016	1031	1068	1112	1172	1238	1298
-75°	742	793	816	845	860	853	853	868	927	1008	1083
-77.5°	608	645	675	704	697	690	675	660	712	779	845
-80°	475	504	534	556	556	534	512	482	534	601	667
-82.5°	363	386	400	415	415	400	386	363	408	452	504
-85°	245	267	274	289	282	267	260	245	274	304	341
-87.5°	126	134	141	141	141	134	126	119	134	148	163
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	185	185	185	185	178	185	185	193	200	178	156
85°	371	378	378	378	378	378	378	378	378	341	304
82.5°	556	578	593	615	630	630	623	615	601	541	475
80°	734	771	793	816	838	831	823	808	801	727	653
77.5°	912	957	986	1008	1031	1038	1031	1031	1023	957	875
75°	1142	1179	1209	1238	1268	1283	1290	1290	1290	1231	1157
72.5°	1350	1394	1439	1483	1520	1542	1565	1579	1594	1565	1520
70°	1565	1617	1668	1720	1772	1809	1839	1869	1883	1891	1891
67.5°	1787	1854	1921	1987	2047	2098	2136	2173	2202	2232	2247
65°	2032	2121	2202	2276	2343	2410	2462	2514	2558	2595	2618
62.5°	2306	2410	2506	2603	2677	2758	2840	2914	2973	3025	3062
60°	2610	2736	2855	2973	3092	3188	3292	3381	3455	3522	3581
57.5°	2951	3107	3255	3411	3544	3670	3797	3923	4034	4123	4197
55°	3329	3522	3715	3900	4086	4256	4419	4583	4731	4849	4953
52.5°	3767	3997	4241	4471	4723	4946	5153	5376	5576	5754	5902
50°	4234	4531	4849	5146	5472	5784	6066	6347	6629	6874	7074
47.5°	4783	5139	5554	5962	6362	6785	7178	7549	7934	8260	8535
45°	5376	5873	6362	6911	7415	7986	8527	9069	9543	10018	10418
42.5°	6080	6703	7326	8030	8720	9439	10203	10885	11597	12294	12872
40°	6918	7652	8512	9358	10314	11219	12302	13258	14163	15045	15794
37.5°	7838	8809	9869	10945	12242	13518	14786	15987	17062	18048	18834
35°	8898	10122	11382	12947	14489	16046	17499	18864	20087	21088	21919
32.5°	10114	11560	13303	15119	16906	18634	20369	21719	22994	24136	25115
30°	11404	13288	15319	17351	19301	21177	22927	24551	26034	27317	28414
27.5°	12917	15097	17359	19539	21630	23654	25641	27495	29119	30468	31833
25°	14415	16914	19331	21637	23899	26160	28348	30431	32329	33983	35459
22.5°	15994	18604	21155	23602	26168	28629	31024	33397	35577	37483	39144
20°	17455	20258	22860	25589	28370	31039	33731	36296	38729	41027	42918
17.5°	18760	21615	24455	27332	30364	33390	36311	39092	41865	44542	46900
15°	19924	22920	25834	28970	32240	35496	38751	41813	44935	47901	50541
12.5°	20955	24047	27146	30483	33901	37290	40857	44416	47879	51074	53937
10°	21808	25018	28340	31796	35347	38929	42770	46722	50429	53825	56940
7.5°	22453	25752	29223	32811	36556	40389	44401	48427	52350	55998	59261
5°	22912	26242	29808	33471	37372	41376	45654	49947	53951	57726	61062
2.5°	23328	26679	30313	33835	37809	41961	46247	50696	54789	58667	62382
0°	23439	26857	30528	34146	38009	42176	46544	50889	55086	59298	62790
-2.5°	23328	26679	30313	33835	37809	41961	46247	50696	54789	58667	62382
-5°	22912	26242	29808	33471	37372	41376	45654	49947	53951	57726	61062
-7.5°	22453	25752	29223	32811	36556	40389	44401	48427	52350	55998	59261
-10°	21808	25018	28340	31796	35347	38929	42770	46722	50429	53825	56940
-12.5°	20955	24047	27146	30483	33901	37290	40857	44416	47879	51074	53937
-15°	19924	22920	25834	28970	32240	35496	38751	41813	44935	47901	50541
-17.5°	18760	21615	24455	27332	30364	33390	36311	39092	41865	44542	46900
-20°	17455	20258	22860	25589	28370	31039	33731	36296	38729	41027	42918



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	15994	18604	21155	23602	26168	28629	31024	33397	35577	37483	39144
-25°	14415	16914	19331	21637	23899	26160	28348	30431	32329	33983	35459
-27.5°	12917	15097	17359	19539	21630	23654	25641	27495	29119	30468	31833
-30°	11404	13288	15319	17351	19301	21177	22927	24551	26034	27317	28414
-32.5°	10114	11560	13303	15119	16906	18634	20369	21719	22994	24136	25115
-35°	8898	10122	11382	12947	14489	16046	17499	18864	20087	21088	21919
-37.5°	7838	8809	9869	10945	12242	13518	14786	15987	17062	18048	18834
-40°	6918	7652	8512	9358	10314	11219	12302	13258	14163	15045	15794
-42.5°	6080	6703	7326	8030	8720	9439	10203	10885	11597	12294	12872
-45°	5376	5873	6362	6911	7415	7986	8527	9069	9543	10018	10418
-47.5°	4783	5139	5554	5962	6362	6785	7178	7549	7934	8260	8535
-50°	4234	4531	4849	5146	5472	5784	6066	6347	6629	6874	7074
-52.5°	3767	3997	4241	4471	4723	4946	5153	5376	5576	5754	5902
-55°	3329	3522	3715	3900	4086	4256	4419	4583	4731	4849	4953
-57.5°	2951	3107	3255	3411	3544	3670	3797	3923	4034	4123	4197
-60°	2610	2736	2855	2973	3092	3188	3292	3381	3455	3522	3581
-62.5°	2306	2410	2506	2603	2677	2758	2840	2914	2973	3025	3062
-65°	2032	2121	2202	2276	2343	2410	2462	2514	2558	2595	2618
-67.5°	1787	1854	1921	1987	2047	2098	2136	2173	2202	2232	2247
-70°	1565	1617	1668	1720	1772	1809	1839	1869	1883	1891	1891
-72.5°	1350	1394	1439	1483	1520	1542	1565	1579	1594	1565	1520
-75°	1142	1179	1209	1238	1268	1283	1290	1290	1290	1231	1157
-77.5°	912	957	986	1008	1031	1038	1031	1031	1023	957	875
-80°	734	771	793	816	838	831	823	808	801	727	653
-82.5°	556	578	593	615	630	630	623	615	601	541	475
-85°	371	378	378	378	378	378	378	378	378	341	304
-87.5°	185	185	185	185	178	185	185	193	200	178	156
-90°	0	0	0	0	0	0	0	0	0	0	0



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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°	126	104	96	82	96	104	126	156	178	200	193
85°	260	215	208	193	208	215	260	304	341	378	378
82.5°	415	341	326	311	326	341	415	475	541	601	615
80°	586	497	482	467	482	497	586	653	727	801	808
77.5°	793	712	682	660	682	712	793	875	957	1023	1031
75°	1075	994	971	949	971	994	1075	1157	1231	1290	1290
72.5°	1468	1431	1372	1320	1372	1431	1468	1520	1565	1594	1579
70°	1898	1913	1898	1876	1898	1913	1898	1891	1891	1883	1869
67.5°	2254	2269	2269	2276	2269	2269	2254	2247	2232	2202	2173
65°	2640	2647	2669	2677	2669	2647	2640	2618	2595	2558	2514
62.5°	3085	3107	3122	3122	3122	3107	3085	3062	3025	2973	2914
60°	3619	3648	3685	3693	3685	3648	3619	3581	3522	3455	3381
57.5°	4256	4293	4345	4360	4345	4293	4256	4197	4123	4034	3923
55°	5027	5079	5109	5094	5109	5079	5027	4953	4849	4731	4583
52.5°	6028	6117	6177	6147	6177	6117	6028	5902	5754	5576	5376
50°	7237	7348	7422	7400	7422	7348	7237	7074	6874	6629	6347
47.5°	8750	8905	9032	9039	9032	8905	8750	8535	8260	7934	7549
45°	10737	10967	11137	11108	11137	10967	10737	10418	10018	9543	9069
42.5°	13317	13636	13888	13866	13888	13636	13317	12872	12294	11597	10885
40°	16350	16743	17077	17166	17077	16743	16350	15794	15045	14163	13258
37.5°	19472	19976	20399	20354	20399	19976	19472	18834	18048	17062	15987
35°	22608	23135	23550	23587	23550	23135	22608	21919	21088	20087	18864
32.5°	25893	26479	26968	27035	26968	26479	25893	25115	24136	22994	21719
30°	29319	30023	30609	30728	30609	30023	29319	28414	27317	26034	24551
27.5°	32923	33760	34317	34532	34317	33760	32923	31833	30468	29119	27495
25°	36637	37550	38172	38521	38172	37550	36637	35459	33983	32329	30431
22.5°	40516	41598	42406	42792	42406	41598	40516	39144	37483	35577	33397
20°	44520	45699	46640	47041	46640	45699	44520	42918	41027	38729	36296
17.5°	48598	50036	51082	51594	51082	50036	48598	46900	44542	41865	39092
15°	52557	54085	55219	55768	55219	54085	52557	50541	47901	44935	41813
12.5°	56228	57844	58979	59772	58979	57844	56228	53937	51074	47879	44416
10°	59505	61270	62419	63242	62419	61270	59505	56940	53825	50429	46722
7.5°	61960	64192	65489	66297	65489	64192	61960	59261	55998	52350	48427
5°	63843	66305	67484	68248	67484	66305	63843	61062	57726	53951	49947
2.5°	65222	67165	68641	69404	68641	67165	65222	62382	58667	54789	50696
0°	65764	68047	69093	69590	69093	68047	65764	62790	59298	55086	50889
-2.5°	65222	67165	68641	69404	68641	67165	65222	62382	58667	54789	50696
-5°	63843	66305	67484	68248	67484	66305	63843	61062	57726	53951	49947
-7.5°	61960	64192	65489	66297	65489	64192	61960	59261	55998	52350	48427
-10°	59505	61270	62419	63242	62419	61270	59505	56940	53825	50429	46722
-12.5°	56228	57844	58979	59772	58979	57844	56228	53937	51074	47879	44416
-15°	52557	54085	55219	55768	55219	54085	52557	50541	47901	44935	41813
-17.5°	48598	50036	51082	51594	51082	50036	48598	46900	44542	41865	39092
-20°	44520	45699	46640	47041	46640	45699	44520	42918	41027	38729	36296



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	40516	41598	42406	42792	42406	41598	40516	39144	37483	35577	33397
-25°	36637	37550	38172	38521	38172	37550	36637	35459	33983	32329	30431
-27.5°	32923	33760	34317	34532	34317	33760	32923	31833	30468	29119	27495
-30°	29319	30023	30609	30728	30609	30023	29319	28414	27317	26034	24551
-32.5°	25893	26479	26968	27035	26968	26479	25893	25115	24136	22994	21719
-35°	22608	23135	23550	23587	23550	23135	22608	21919	21088	20087	18864
-37.5°	19472	19976	20399	20354	20399	19976	19472	18834	18048	17062	15987
-40°	16350	16743	17077	17166	17077	16743	16350	15794	15045	14163	13258
-42.5°	13317	13636	13888	13866	13888	13636	13317	12872	12294	11597	10885
-45°	10737	10967	11137	11108	11137	10967	10737	10418	10018	9543	9069
-47.5°	8750	8905	9032	9039	9032	8905	8750	8535	8260	7934	7549
-50°	7237	7348	7422	7400	7422	7348	7237	7074	6874	6629	6347
-52.5°	6028	6117	6177	6147	6177	6117	6028	5902	5754	5576	5376
-55°	5027	5079	5109	5094	5109	5079	5027	4953	4849	4731	4583
-57.5°	4256	4293	4345	4360	4345	4293	4256	4197	4123	4034	3923
-60°	3619	3648	3685	3693	3685	3648	3619	3581	3522	3455	3381
-62.5°	3085	3107	3122	3122	3122	3107	3085	3062	3025	2973	2914
-65°	2640	2647	2669	2677	2669	2647	2640	2618	2595	2558	2514
-67.5°	2254	2269	2269	2276	2269	2269	2254	2247	2232	2202	2173
-70°	1898	1913	1898	1876	1898	1913	1898	1891	1891	1883	1869
-72.5°	1468	1431	1372	1320	1372	1431	1468	1520	1565	1594	1579
-75°	1075	994	971	949	971	994	1075	1157	1231	1290	1290
-77.5°	793	712	682	660	682	712	793	875	957	1023	1031
-80°	586	497	482	467	482	497	586	653	727	801	808
-82.5°	415	341	326	311	326	341	415	475	541	601	615
-85°	260	215	208	193	208	215	260	304	341	378	378
-87.5°	126	104	96	82	96	104	126	156	178	200	193
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622083
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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°	185	185	178	185	185	185	185	163	148	134	119
85°	378	378	378	378	378	378	371	341	304	274	245
82.5°	623	630	630	615	593	578	556	504	452	408	363
80°	823	831	838	816	793	771	734	667	601	534	482
77.5°	1031	1038	1031	1008	986	957	912	845	779	712	660
75°	1290	1283	1268	1238	1209	1179	1142	1083	1008	927	868
72.5°	1565	1542	1520	1483	1439	1394	1350	1298	1238	1172	1112
70°	1839	1809	1772	1720	1668	1617	1565	1498	1439	1372	1313
67.5°	2136	2098	2047	1987	1921	1854	1787	1713	1639	1565	1498
65°	2462	2410	2343	2276	2202	2121	2032	1943	1861	1765	1683
62.5°	2840	2758	2677	2603	2506	2410	2306	2202	2098	1995	1883
60°	3292	3188	3092	2973	2855	2736	2610	2484	2351	2232	2098
57.5°	3797	3670	3544	3411	3255	3107	2951	2788	2640	2484	2328
55°	4419	4256	4086	3900	3715	3522	3329	3137	2951	2751	2580
52.5°	5153	4946	4723	4471	4241	3997	3767	3522	3292	3062	2840
50°	6066	5784	5472	5146	4849	4531	4234	3945	3663	3396	3129
47.5°	7178	6785	6362	5962	5554	5139	4783	4434	4078	3745	3448
45°	8527	7986	7415	6911	6362	5873	5376	4946	4531	4152	3774
42.5°	10203	9439	8720	8030	7326	6703	6080	5546	5042	4575	4152
40°	12302	11219	10314	9358	8512	7652	6918	6229	5606	5050	4531
37.5°	14786	13518	12242	10945	9869	8809	7838	6985	6236	5561	4961
35°	17499	16046	14489	12947	11382	10122	8898	7830	6918	6103	5406
32.5°	20369	18634	16906	15119	13303	11560	10114	8787	7645	6711	5888
30°	22927	21177	19301	17351	15319	13288	11404	9862	8505	7326	6377
27.5°	25641	23654	21630	19539	17359	15097	12917	10952	9365	8038	6918
25°	28348	26160	23899	21637	19331	16914	14415	12198	10314	8742	7400
22.5°	31024	28629	26168	23602	21155	18604	15994	13406	11189	9439	7964
20°	33731	31039	28370	25589	22860	20258	17455	14682	12220	10159	8483
17.5°	36311	33390	30364	27332	24455	21615	18760	15913	13169	10811	9002
15°	38751	35496	32240	28970	25834	22920	19924	16980	14066	11501	9454
12.5°	40857	37290	33901	30483	27146	24047	20955	17907	14912	12168	9914
10°	42770	38929	35347	31796	28340	25018	21808	18678	15601	12709	10285
7.5°	44401	40389	36556	32811	29223	25752	22453	19272	16135	13125	10574
5°	45654	41376	37372	33471	29808	26242	22912	19694	16513	13421	10759
2.5°	46247	41961	37809	33835	30313	26679	23328	20072	16832	13703	10959
0°	46544	42176	38009	34146	30528	26857	23439	20124	16825	13740	10974
-2.5°	46247	41961	37809	33835	30313	26679	23328	20072	16832	13703	10959
-5°	45654	41376	37372	33471	29808	26242	22912	19694	16513	13421	10759
-7.5°	44401	40389	36556	32811	29223	25752	22453	19272	16135	13125	10574
-10°	42770	38929	35347	31796	28340	25018	21808	18678	15601	12709	10285
-12.5°	40857	37290	33901	30483	27146	24047	20955	17907	14912	12168	9914
-15°	38751	35496	32240	28970	25834	22920	19924	16980	14066	11501	9454
-17.5°	36311	33390	30364	27332	24455	21615	18760	15913	13169	10811	9002
-20°	33731	31039	28370	25589	22860	20258	17455	14682	12220	10159	8483



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	31024	28629	26168	23602	21155	18604	15994	13406	11189	9439	7964
-25°	28348	26160	23899	21637	19331	16914	14415	12198	10314	8742	7400
-27.5°	25641	23654	21630	19539	17359	15097	12917	10952	9365	8038	6918
-30°	22927	21177	19301	17351	15319	13288	11404	9862	8505	7326	6377
-32.5°	20369	18634	16906	15119	13303	11560	10114	8787	7645	6711	5888
-35°	17499	16046	14489	12947	11382	10122	8898	7830	6918	6103	5406
-37.5°	14786	13518	12242	10945	9869	8809	7838	6985	6236	5561	4961
-40°	12302	11219	10314	9358	8512	7652	6918	6229	5606	5050	4531
-42.5°	10203	9439	8720	8030	7326	6703	6080	5546	5042	4575	4152
-45°	8527	7986	7415	6911	6362	5873	5376	4946	4531	4152	3774
-47.5°	7178	6785	6362	5962	5554	5139	4783	4434	4078	3745	3448
-50°	6066	5784	5472	5146	4849	4531	4234	3945	3663	3396	3129
-52.5°	5153	4946	4723	4471	4241	3997	3767	3522	3292	3062	2840
-55°	4419	4256	4086	3900	3715	3522	3329	3137	2951	2751	2580
-57.5°	3797	3670	3544	3411	3255	3107	2951	2788	2640	2484	2328
-60°	3292	3188	3092	2973	2855	2736	2610	2484	2351	2232	2098
-62.5°	2840	2758	2677	2603	2506	2410	2306	2202	2098	1995	1883
-65°	2462	2410	2343	2276	2202	2121	2032	1943	1861	1765	1683
-67.5°	2136	2098	2047	1987	1921	1854	1787	1713	1639	1565	1498
-70°	1839	1809	1772	1720	1668	1617	1565	1498	1439	1372	1313
-72.5°	1565	1542	1520	1483	1439	1394	1350	1298	1238	1172	1112
-75°	1290	1283	1268	1238	1209	1179	1142	1083	1008	927	868
-77.5°	1031	1038	1031	1008	986	957	912	845	779	712	660
-80°	823	831	838	816	793	771	734	667	601	534	482
-82.5°	623	630	630	615	593	578	556	504	452	408	363
-85°	378	378	378	378	378	378	371	341	304	274	245
-87.5°	185	185	178	185	185	185	185	163	148	134	119
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P622083
 CATALOG NUMBER: EPH-VN-08-E-740-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°	126	134	141	141	141	134	126	119	104	96	89
85°	260	267	282	289	274	267	245	230	215	193	178
82.5°	386	400	415	415	400	386	363	341	319	289	260
80°	512	534	556	556	534	504	475	445	415	378	341
77.5°	675	690	697	704	675	645	608	556	512	467	423
75°	853	853	860	845	816	793	742	682	615	556	497
72.5°	1068	1031	1016	994	942	897	860	808	719	638	571
70°	1253	1201	1157	1112	1060	1001	957	890	816	719	638
67.5°	1431	1364	1298	1238	1172	1112	1046	964	882	793	704
65°	1609	1528	1446	1364	1290	1216	1142	1046	949	860	764
62.5°	1787	1691	1594	1498	1409	1320	1238	1127	1016	920	816
60°	1972	1869	1757	1646	1535	1431	1327	1209	1090	971	868
57.5°	2187	2039	1913	1787	1661	1542	1416	1290	1164	1038	912
55°	2403	2239	2076	1935	1794	1661	1513	1372	1231	1097	957
52.5°	2632	2440	2262	2084	1928	1772	1617	1468	1305	1157	986
50°	2884	2655	2447	2247	2061	1891	1720	1550	1379	1216	1023
47.5°	3151	2884	2640	2410	2210	2002	1817	1639	1453	1283	1060
45°	3448	3129	2840	2588	2343	2121	1921	1720	1528	1327	1083
42.5°	3737	3389	3062	2751	2491	2239	2024	1809	1602	1364	1120
40°	4078	3648	3285	2951	2640	2358	2113	1891	1676	1409	1149
37.5°	4434	3937	3515	3129	2788	2484	2217	1965	1728	1453	1179
35°	4790	4234	3745	3315	2944	2610	2314	2047	1780	1490	1209
32.5°	5161	4531	3974	3500	3092	2736	2410	2121	1839	1535	1231
30°	5569	4842	4212	3678	3233	2847	2506	2195	1898	1572	1253
27.5°	5954	5131	4442	3871	3381	2966	2595	2269	1965	1609	1283
25°	6340	5443	4686	4049	3522	3070	2684	2336	2024	1654	1305
22.5°	6755	5747	4909	4219	3648	3174	2766	2410	2076	1698	1327
20°	7133	6021	5102	4382	3782	3277	2847	2469	2121	1743	1350
17.5°	7482	6303	5339	4553	3908	3374	2914	2521	2165	1780	1364
15°	7860	6585	5546	4701	4019	3455	2981	2573	2202	1817	1372
12.5°	8186	6822	5724	4835	4115	3522	3033	2610	2239	1854	1387
10°	8453	7015	5873	4938	4190	3581	3070	2647	2262	1876	1394
7.5°	8661	7163	5984	5020	4249	3626	3107	2669	2284	1898	1394
5°	8816	7274	6058	5079	4293	3663	3137	2692	2306	1928	1401
2.5°	8957	7393	6117	5131	4330	3693	3159	2707	2306	1921	1387
0°	8980	7415	6110	5131	4330	3700	3159	2707	2299	1913	1372
-2.5°	8957	7393	6117	5131	4330	3693	3159	2707	2306	1921	1387
-5°	8816	7274	6058	5079	4293	3663	3137	2692	2306	1928	1401
-7.5°	8661	7163	5984	5020	4249	3626	3107	2669	2284	1898	1394
-10°	8453	7015	5873	4938	4190	3581	3070	2647	2262	1876	1394
-12.5°	8186	6822	5724	4835	4115	3522	3033	2610	2239	1854	1387
-15°	7860	6585	5546	4701	4019	3455	2981	2573	2202	1817	1372
-17.5°	7482	6303	5339	4553	3908	3374	2914	2521	2165	1780	1364
-20°	7133	6021	5102	4382	3782	3277	2847	2469	2121	1743	1350



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	6755	5747	4909	4219	3648	3174	2766	2410	2076	1698	1327
-25°	6340	5443	4686	4049	3522	3070	2684	2336	2024	1654	1305
-27.5°	5954	5131	4442	3871	3381	2966	2595	2269	1965	1609	1283
-30°	5569	4842	4212	3678	3233	2847	2506	2195	1898	1572	1253
-32.5°	5161	4531	3974	3500	3092	2736	2410	2121	1839	1535	1231
-35°	4790	4234	3745	3315	2944	2610	2314	2047	1780	1490	1209
-37.5°	4434	3937	3515	3129	2788	2484	2217	1965	1728	1453	1179
-40°	4078	3648	3285	2951	2640	2358	2113	1891	1676	1409	1149
-42.5°	3737	3389	3062	2751	2491	2239	2024	1809	1602	1364	1120
-45°	3448	3129	2840	2588	2343	2121	1921	1720	1528	1327	1083
-47.5°	3151	2884	2640	2410	2210	2002	1817	1639	1453	1283	1060
-50°	2884	2655	2447	2247	2061	1891	1720	1550	1379	1216	1023
-52.5°	2632	2440	2262	2084	1928	1772	1617	1468	1305	1157	986
-55°	2403	2239	2076	1935	1794	1661	1513	1372	1231	1097	957
-57.5°	2187	2039	1913	1787	1661	1542	1416	1290	1164	1038	912
-60°	1972	1869	1757	1646	1535	1431	1327	1209	1090	971	868
-62.5°	1787	1691	1594	1498	1409	1320	1238	1127	1016	920	816
-65°	1609	1528	1446	1364	1290	1216	1142	1046	949	860	764
-67.5°	1431	1364	1298	1238	1172	1112	1046	964	882	793	704
-70°	1253	1201	1157	1112	1060	1001	957	890	816	719	638
-72.5°	1068	1031	1016	994	942	897	860	808	719	638	571
-75°	853	853	860	845	816	793	742	682	615	556	497
-77.5°	675	690	697	704	675	645	608	556	512	467	423
-80°	512	534	556	556	534	504	475	445	415	378	341
-82.5°	386	400	415	415	400	386	363	341	319	289	260
-85°	260	267	282	289	274	267	245	230	215	193	178
-87.5°	126	134	141	141	141	134	126	119	104	96	89
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	74	59	45	30	15	7	0
85°	156	119	82	52	30	15	0
82.5°	230	171	126	82	52	22	0
80°	304	230	163	111	67	30	0
77.5°	371	282	208	134	82	37	0
75°	430	326	245	163	96	45	0
72.5°	489	371	274	185	111	52	0
70°	549	415	304	215	126	59	0
67.5°	593	452	334	230	141	67	0
65°	630	489	356	245	156	67	0
62.5°	667	519	378	260	171	74	0
60°	712	549	408	274	178	82	0
57.5°	742	571	423	289	185	89	0
55°	771	601	438	304	200	96	0
52.5°	801	623	460	311	208	96	0
50°	823	645	475	319	215	104	0
47.5°	853	660	482	326	222	111	0
45°	875	682	497	334	230	111	0
42.5°	897	697	504	341	230	119	0
40°	920	704	519	356	237	126	0
37.5°	934	719	527	363	245	126	0
35°	942	727	534	371	252	134	0
32.5°	957	742	541	386	252	134	0
30°	979	742	541	393	260	134	0
27.5°	994	749	556	393	260	141	0
25°	1001	749	564	400	267	141	0
22.5°	1008	756	571	408	267	141	0
20°	1016	764	578	415	274	148	0
17.5°	1023	779	586	415	274	148	0
15°	1038	786	586	415	274	156	0
12.5°	1046	786	586	423	274	156	0
10°	1053	793	586	423	282	148	0
7.5°	1053	793	593	423	282	148	0
5°	1053	801	586	423	274	148	0
2.5°	1038	801	586	415	274	148	0
0°	1031	793	578	415	274	148	0
-2.5°	1038	801	586	415	274	148	0
-5°	1053	801	586	423	274	148	0
-7.5°	1053	793	593	423	282	148	0
-10°	1053	793	586	423	282	148	0
-12.5°	1046	786	586	423	274	156	0
-15°	1038	786	586	415	274	156	0
-17.5°	1023	779	586	415	274	148	0
-20°	1016	764	578	415	274	148	0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	1008	756	571	408	267	141	0
-25°	1001	749	564	400	267	141	0
-27.5°	994	749	556	393	260	141	0
-30°	979	742	541	393	260	134	0
-32.5°	957	742	541	386	252	134	0
-35°	942	727	534	371	252	134	0
-37.5°	934	719	527	363	245	126	0
-40°	920	704	519	356	237	126	0
-42.5°	897	697	504	341	230	119	0
-45°	875	682	497	334	230	111	0
-47.5°	853	660	482	326	222	111	0
-50°	823	645	475	319	215	104	0
-52.5°	801	623	460	311	208	96	0
-55°	771	601	438	304	200	96	0
-57.5°	742	571	423	289	185	89	0
-60°	712	549	408	274	178	82	0
-62.5°	667	519	378	260	171	74	0
-65°	630	489	356	245	156	67	0
-67.5°	593	452	334	230	141	67	0
-70°	549	415	304	215	126	59	0
-72.5°	489	371	274	185	111	52	0
-75°	430	326	245	163	96	45	0
-77.5°	371	282	208	134	82	37	0
-80°	304	230	163	111	67	30	0
-82.5°	230	171	126	82	52	22	0
-85°	156	119	82	52	30	15	0
-87.5°	74	59	45	30	15	7	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)