

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: EPHESUS

Report Number: P1306317 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-08-680N-40-80-5S-CV1-A**

Issue Date: 2/3/2026

Test Information

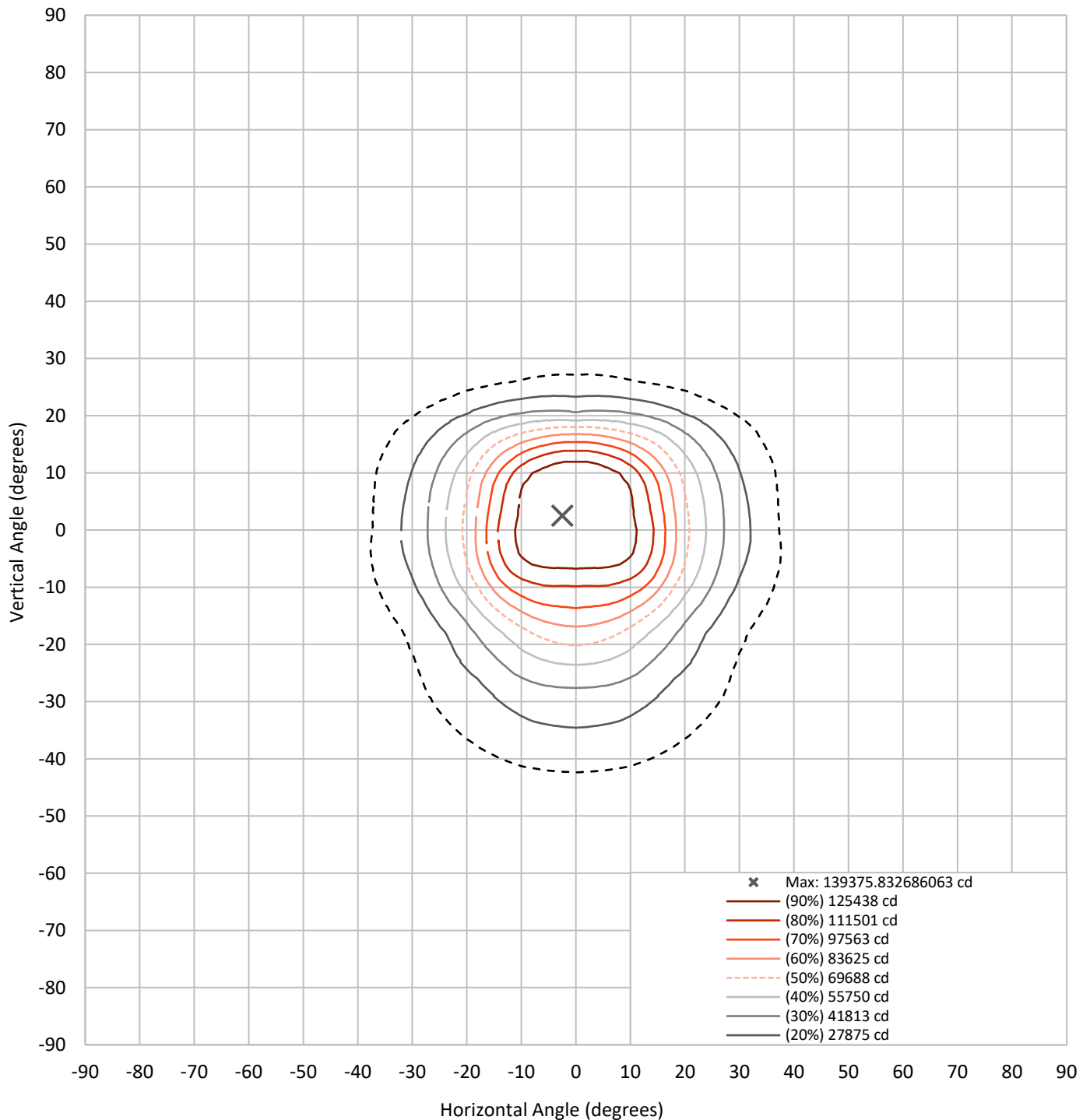
Test Method: LM-79-08
Report Number: P1306317 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-34)
Test Lab: INNOVATION CENTER
Issue Date: 2/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-08-680N-40-80-5S-CV1-A
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 4V
Luminaire Lumens:	74410.6 lumens	Max Intensity:	139375.8 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x 2.5°V
Efficacy:	108.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	41.4°H x 38°V	Field Angle (10%):	74.2°H x 69.6°V
Beam Lumens:	41000.7 lumens	Field Lumens:	69200.4 lumens
Beam Efficiency:	55.1%	Field Efficiency:	93.0%
Input Watts (W):	688		
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-Candela Plot





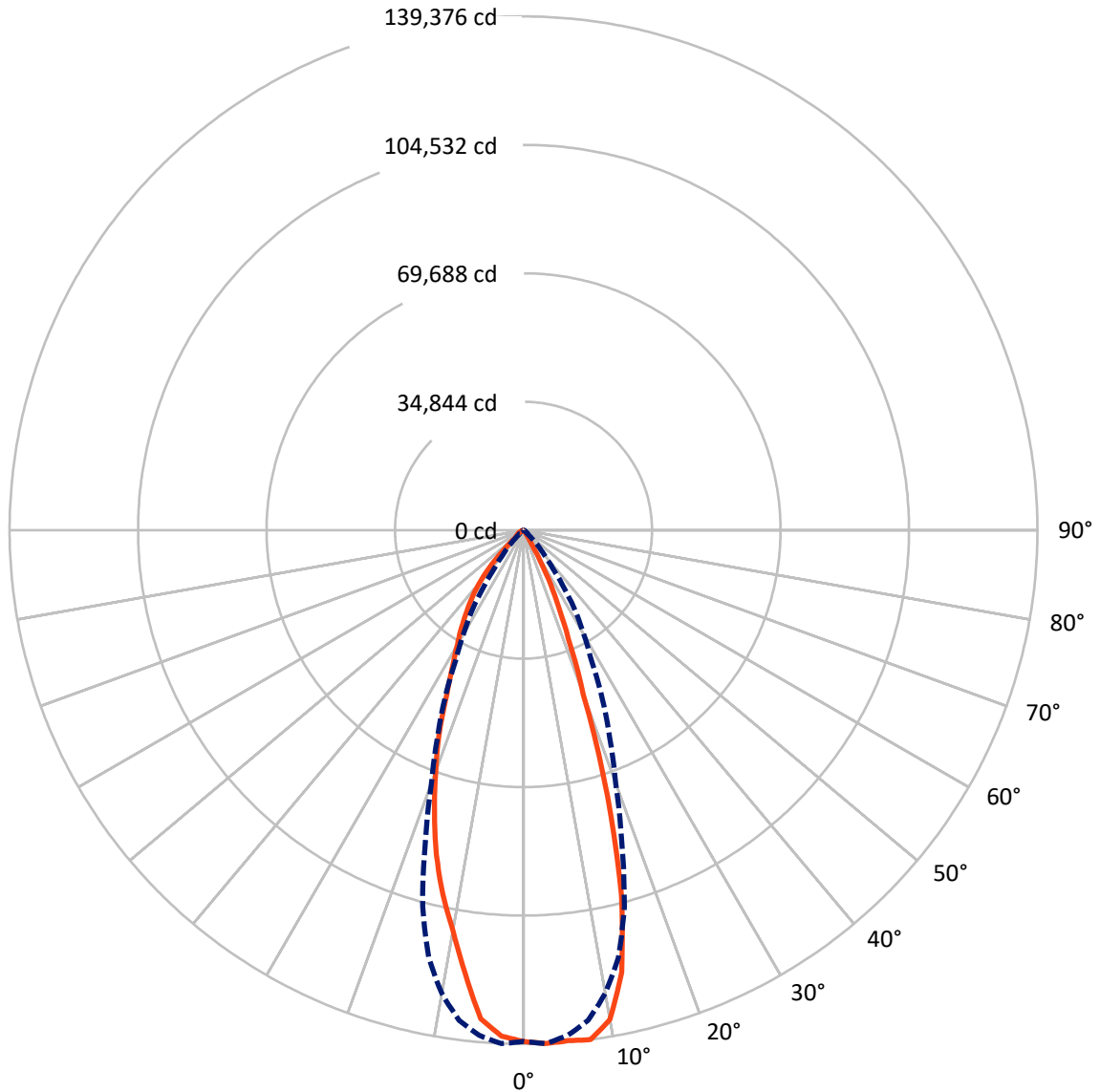
REPORT NUMBER: P1306317 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table

90	0.1	0.3	0.5	0.5	0.4	0.5	0.5	0.3	0.1										
80	0.1	0.3	0.5	0.5	0.4	0.5	0.5	0.3	0.1										
70	0.1	0.1	0.1	0.4	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.6	0.4	0.1	0.1	0.1			
60		0.1	0.2	0.7	0.8	0.4	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.2	0.1				
50	0.1	0.1	0.3	0.5	0.8	1.0	1.2	1.1	1.1	1.2	1.0	0.8	0.5	0.3	0.1	0.1			
40		0.2	0.8	2.2	4.9	10.5	24.8	35.4	35.4	24.8	10.5	4.9	2.2	0.8	0.2				
30	0.2	0.4	4.0	14.9	81.1	249.1	501.3	674.4	674.4	501.3	249.1	81.1	14.9	4.0	0.4	0.2			
20		1.1	9.7	53.6	334.3	951.9	1973.2	2841.8	2841.8	1973.2	951.9	334.3	53.6	9.7	1.1				
10	0.2	1.8	13.1	84.6	480.6	1369.3	2958.6	4091.2	4091.2	2958.6	1369.3	480.6	84.6	13.1	1.8	0.2			
0		2.3	14.0	88.5	484.0	1334.9	2915.6	3864.5	3864.5	2915.6	1334.9	484.0	88.5	14.0	2.3				
-10	0.4	2.7	13.5	59.4	318.2	880.5	1873.1	2664.3	2664.3	1873.1	880.5	318.2	59.4	13.5	2.7	0.4			
-20		2.6	12.8	33.1	187.5	539.3	1048.2	1482.4	1482.4	1048.2	539.3	187.5	33.1	12.8	2.6				
-30	0.3	2.1	10.3	24.6	75.4	297.3	580.1	793.8	793.8	580.1	297.3	75.4	24.6	10.3	2.1	0.3			
-40		1.3	6.7	19.3	37.1	69.2	163.9	254.7	254.7	163.9	69.2	37.1	19.3	6.7	1.3				
-50	0.2	0.7	3.4	10.5	22.7	37.0	50.5	58.5	58.5	50.5	37.0	22.7	10.5	3.4	0.7	0.2			
-60		0.3	1.2	3.6	7.8	13.3	19.6	23.1	23.1	19.6	13.3	7.8	3.6	1.2	0.3				
-70	0.2	0.7	2.6	6.2	8.3	6.2	2.6	0.7	0.2							0.2			
-80		0.7	2.6	6.2	8.3	6.2	2.6	0.7	0.2										
-90	0.2	0.7	2.6	6.2	8.3	6.2	2.6	0.7	0.2										
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

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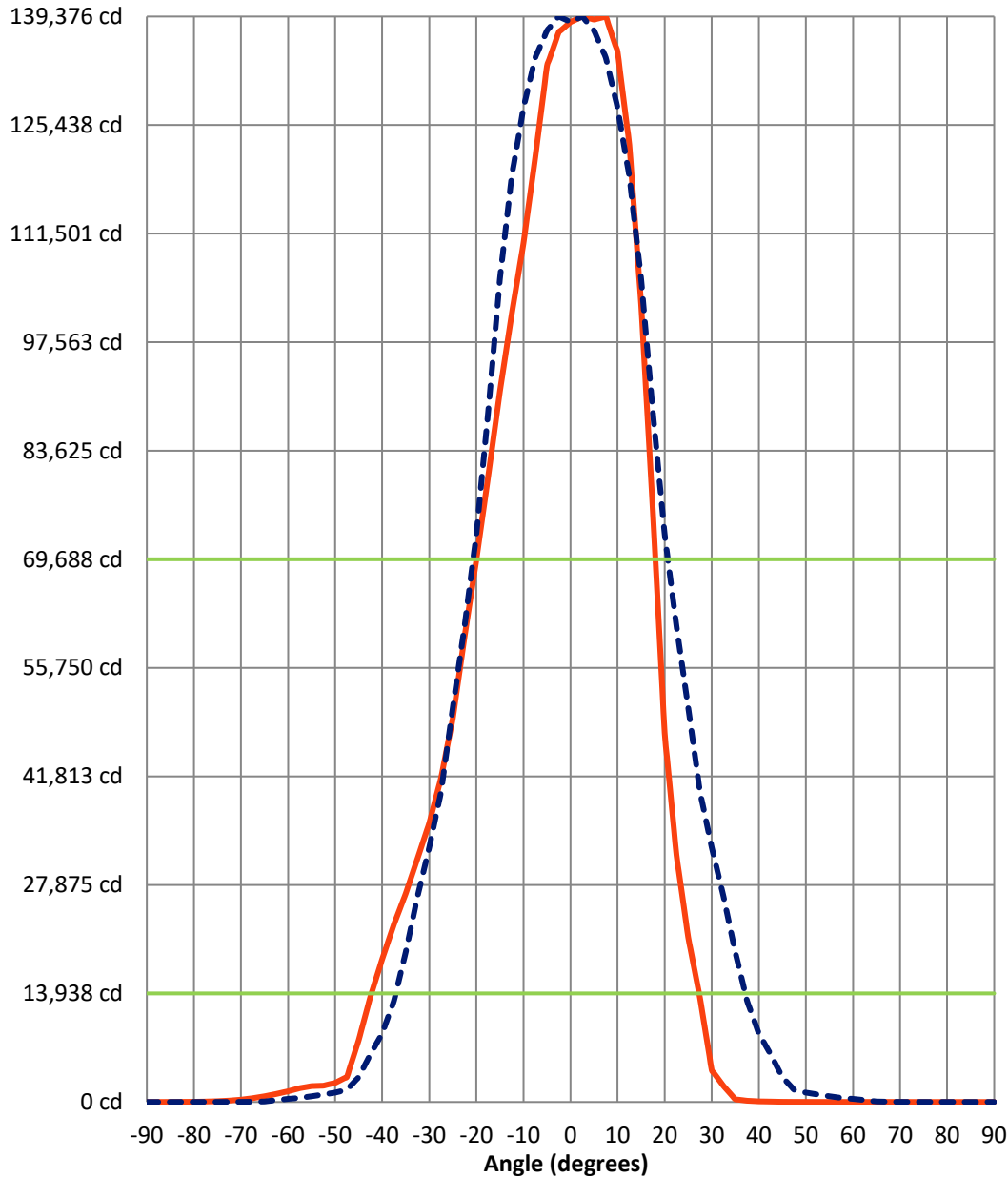
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through 2.5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 41.4°
 V Angle: 38°
 Lumens: 41000.7
 Efficiency: 55.1%

Field:
 H Angle: 74.2°
 V Angle: 69.6°
 Lumens: 69200.4
 Efficiency: 93.0%

Spill:
 Lumens: 5210.2
 Efficiency: 7.0%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through 2.5-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°	6	6	6	6	6	6	6	6	6	6	6
87.5°	6	6	6	6	6	6	6	6	5	5	4
85°	6	6	6	6	6	6	6	6	5	5	4
82.5°	6	6	6	6	6	6	6	6	5	5	5
80°	6	6	6	6	6	6	6	6	5	5	5
77.5°	6	6	6	6	6	6	6	6	6	6	6
75°	6	6	6	6	6	6	6	6	6	6	6
72.5°	6	6	6	6	6	6	6	6	6	6	6
70°	6	6	6	6	6	6	6	6	6	6	6
67.5°	6	6	6	6	6	6	6	6	6	6	6
65°	6	6	6	6	6	6	6	6	6	6	6
62.5°	6	6	6	6	6	6	6	6	6	6	6
60°	6	6	6	6	6	6	6	6	6	6	6
57.5°	6	6	6	6	6	6	6	6	6	6	6
55°	6	6	6	6	6	6	6	6	6	6	7
52.5°	6	6	6	6	6	6	6	6	6	7	7
50°	6	6	6	6	6	6	7	6	6	7	8
47.5°	6	6	6	6	6	6	7	6	7	8	9
45°	6	6	6	6	6	7	7	6	7	8	10
42.5°	6	6	6	6	6	7	7	7	8	9	11
40°	6	6	6	6	6	7	7	7	9	10	11
37.5°	6	6	6	6	6	7	7	8	9	10	12
35°	6	6	6	6	7	8	7	8	10	11	12
32.5°	6	6	6	6	7	8	7	9	10	12	14
30°	6	6	6	6	7	8	8	9	11	13	16
27.5°	6	6	6	6	7	8	8	10	11	13	18
25°	6	6	6	7	7	8	9	10	12	15	21
22.5°	6	6	6	7	8	8	9	11	13	17	25
20°	6	6	6	7	8	8	9	11	13	19	30
17.5°	6	6	6	7	8	8	9	11	14	21	36
15°	6	6	6	7	8	8	10	12	15	23	41
12.5°	6	6	6	7	8	8	10	12	15	25	47
10°	6	6	6	7	8	8	10	12	16	27	52
7.5°	6	6	6	8	8	8	10	12	16	30	57
5°	6	6	6	8	8	8	10	12	17	32	62
2.5°	6	6	6	8	8	8	10	12	17	34	66
0°	6	6	6	8	8	8	10	12	18	36	70
-2.5°	6	6	6	8	8	8	11	14	24	47	87
-5°	6	6	6	8	8	8	11	16	30	57	103
-7.5°	6	6	6	8	8	9	11	18	35	67	118
-10°	6	6	6	8	8	9	12	20	40	75	131
-12.5°	6	6	6	8	8	9	12	21	44	83	144
-15°	6	6	6	8	8	9	12	22	47	90	154
-17.5°	6	6	7	8	8	9	13	24	51	95	162
-20°	6	6	7	8	8	9	13	26	53	99	167



REPORT NUMBER: P1306317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-680N-40-80-5S-CV1-A

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	6	6	7	8	8	9	14	27	54	100	168
-25°	6	6	7	8	8	9	15	28	54	100	165
-27.5°	6	6	7	8	8	10	15	28	53	98	164
-30°	6	6	7	8	8	10	15	27	52	96	160
-32.5°	6	6	7	8	8	9	15	27	51	92	153
-35°	6	6	7	8	8	9	15	27	49	87	143
-37.5°	6	6	7	8	8	9	14	26	46	79	130
-40°	6	6	7	8	8	9	14	24	42	73	117
-42.5°	6	6	7	8	8	9	13	22	39	66	103
-45°	6	6	7	8	8	9	12	20	36	58	88
-47.5°	6	6	7	8	8	9	11	18	31	50	78
-50°	6	6	6	8	8	9	10	16	26	44	67
-52.5°	6	6	6	8	8	9	10	14	23	37	56
-55°	6	6	6	8	8	9	10	12	20	30	48
-57.5°	6	6	6	7	8	9	10	11	16	25	39
-60°	6	6	6	7	8	9	10	11	13	21	30
-62.5°	6	6	6	7	8	8	9	11	13	16	25
-65°	6	6	6	7	8	8	9	10	12	14	19
-67.5°	6	6	6	7	7	8	8	10	11	13	15
-70°	6	6	6	6	7	8	8	9	10	11	13
-72.5°	6	6	6	6	7	8	8	8	10	11	12
-75°	6	6	6	6	7	8	8	8	9	10	11
-77.5°	6	6	6	6	7	7	8	8	9	9	10
-80°	6	6	6	6	7	7	8	8	8	9	9
-82.5°	6	6	6	6	7	7	8	8	8	8	9
-85°	6	6	6	6	6	7	7	7	7	8	8
-87.5°	6	6	6	6	6	6	7	7	7	7	7
-90°	6	6	6	6	6	6	6	6	5	5	4



REPORT NUMBER: P1306317 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-08-680N-40-80-5S-CV1-A

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	6	6	6	6	6	6	6	6	6	6	6
87.5°	4	4	4	4	4	4	4	4	4	4	4
85°	4	4	4	4	4	4	4	4	4	4	4
82.5°	5	5	4	4	4	4	4	4	4	4	4
80°	5	5	5	4	4	5	5	6	5	5	5
77.5°	6	5	5	4	4	5	6	6	6	6	6
75°	6	5	5	5	5	6	6	6	7	7	7
72.5°	6	6	6	6	6	6	7	8	8	8	8
70°	6	6	6	6	6	7	8	9	10	10	11
67.5°	6	6	6	6	7	8	9	11	14	15	17
65°	6	6	6	7	8	9	12	15	21	24	25
62.5°	6	6	7	8	9	11	16	23	30	34	33
60°	6	6	8	9	11	15	22	29	39	46	41
57.5°	6	7	9	11	14	19	25	35	44	55	47
55°	7	9	11	13	17	20	27	36	46	53	46
52.5°	8	10	12	15	19	21	25	33	40	45	41
50°	10	11	13	16	20	21	21	27	32	35	35
47.5°	11	12	14	18	20	21	19	22	26	28	28
45°	11	13	16	19	21	20	20	18	23	26	26
42.5°	12	15	18	20	21	22	22	22	25	30	32
40°	13	16	20	22	22	26	29	32	34	41	45
37.5°	14	18	23	27	27	33	39	57	60	55	72
35°	15	21	29	38	43	44	69	92	103	101	115
32.5°	18	24	37	57	75	80	106	147	183	197	188
30°	21	32	50	80	123	170	178	222	295	355	444
27.5°	26	41	73	124	193	289	313	351	460	609	896
25°	32	66	99	182	309	422	467	540	666	1149	1809
22.5°	45	99	153	249	445	562	642	766	1065	1836	3121
20°	69	144	220	334	589	709	817	1005	1673	3107	5196
17.5°	97	194	290	436	666	831	998	1250	2311	4589	7364
15°	128	246	356	525	734	911	1144	1725	3324	6281	9356
12.5°	161	299	417	600	797	986	1265	2132	4380	7818	11403
10°	195	353	475	664	855	1056	1373	2503	5125	8395	12383
7.5°	217	387	521	716	907	1120	1470	2831	5652	8685	12787
5°	233	396	526	732	941	1171	1545	3106	5979	8727	12911
2.5°	245	399	527	737	961	1205	1571	3197	6129	8806	12998
0°	253	399	524	735	974	1231	1580	3214	6133	8858	13030
-2.5°	267	413	551	766	990	1237	1593	3304	6430	9416	14013
-5°	276	423	573	790	999	1234	1591	3309	6467	9545	14053
-7.5°	282	431	590	804	991	1203	1536	3042	5898	8960	13098
-10°	286	440	601	796	961	1152	1459	2711	5218	8207	11944
-12.5°	292	450	609	786	934	1096	1368	2326	4445	7286	10607
-15°	294	457	613	777	911	1036	1264	1895	3670	6478	9284
-17.5°	292	460	613	769	894	972	1158	1523	3093	5694	8282
-20°	284	460	610	764	884	951	1123	1442	2597	4775	7336



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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°	272	456	604	756	883	970	1093	1339	1974	3714	6356
-25°	264	439	595	735	877	991	1061	1230	1584	2903	5035
-27.5°	260	416	567	706	862	1003	1067	1190	1441	2013	3643
-30°	251	377	534	668	826	979	1091	1149	1311	1644	2603
-32.5°	234	338	490	627	776	944	1095	1153	1257	1449	1808
-35°	213	312	442	580	716	886	1046	1169	1215	1353	1604
-37.5°	196	282	393	527	659	815	991	1134	1228	1289	1475
-40°	175	249	353	473	601	744	907	1073	1207	1322	1400
-42.5°	152	222	311	419	542	675	816	980	1152	1316	1436
-45°	135	193	267	368	480	602	734	874	1053	1238	1406
-47.5°	115	164	231	313	417	529	649	780	928	1106	1299
-50°	96	140	192	265	352	454	563	678	809	957	1126
-52.5°	83	115	161	217	291	377	474	576	687	809	948
-55°	69	96	130	176	232	306	385	475	567	673	780
-57.5°	57	79	105	139	184	235	304	375	457	543	628
-60°	46	63	85	111	141	183	227	286	352	416	487
-62.5°	34	49	66	86	111	135	170	210	253	307	359
-65°	27	35	48	64	82	103	124	146	181	215	248
-67.5°	19	27	34	43	58	73	89	108	127	145	166
-70°	16	19	25	32	38	46	59	72	86	100	115
-72.5°	13	16	18	21	27	32	37	42	50	62	72
-75°	12	13	15	17	19	21	24	28	32	37	41
-77.5°	11	11	12	13	14	16	18	20	22	23	25
-80°	10	10	10	11	12	13	14	15	16	17	19
-82.5°	9	9	9	9	10	10	10	11	11	12	13
-85°	8	8	8	8	8	9	9	9	9	9	9
-87.5°	7	7	7	7	7	7	7	7	7	8	8
-90°	4	4	4	4	4	4	4	4	4	4	4



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 CATALOG NUMBER: EPH-08-680N-40-80-5S-CV1-A

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6	6	6	6	6	6	5	5	4	4	4
87.5°	4	4	4	4	4	4	3	3	2	2	2
85°	4	4	4	4	4	4	4	4	4	3	3
82.5°	4	4	4	4	4	4	4	4	4	4	3
80°	5	5	4	4	4	4	4	4	4	4	3
77.5°	6	6	5	5	4	4	4	4	4	4	3
75°	6	6	6	5	5	5	5	4	4	4	4
72.5°	8	8	7	8	8	7	7	6	6	6	6
70°	12	12	12	12	11	10	9	9	8	8	8
67.5°	18	18	17	16	14	12	11	10	9	8	9
65°	25	22	20	18	16	14	13	11	10	10	11
62.5°	30	23	20	18	17	16	14	12	11	10	10
60°	34	25	19	17	16	14	12	11	10	9	8
57.5°	36	26	17	15	13	11	10	9	9	8	8
55°	35	24	15	13	12	12	12	11	10	9	10
52.5°	30	22	16	14	13	12	12	12	12	11	11
50°	26	20	16	14	14	14	14	14	14	14	14
47.5°	24	19	18	16	16	17	18	18	19	19	18
45°	24	25	25	23	23	31	32	27	32	31	27
42.5°	35	37	38	46	62	62	60	68	62	55	49
40°	54	54	64	78	77	74	84	86	85	89	88
37.5°	85	86	91	99	115	108	129	143	145	164	179
35°	142	166	144	196	230	223	254	310	257	394	419
32.5°	266	320	362	421	498	611	619	1018	1098	1334	1657
30°	457	616	921	1000	1123	1590	2143	2835	3478	3937	4541
27.5°	1101	1363	2019	2733	2691	3564	5541	6150	7819	8374	9783
25°	2463	3090	4679	6095	6816	9118	11726	12902	15102	16271	17996
22.5°	4816	6537	8645	10819	13528	17052	20277	22630	25591	27968	29375
20°	7795	10177	13422	16800	20991	25620	28985	33754	38207	42436	44343
17.5°	10632	14611	18537	22614	28112	34167	39652	46626	54010	59689	64318
15°	13036	17464	23128	28000	34293	41844	49999	58915	69534	77605	86297
12.5°	15255	19694	25841	31660	40133	48661	58177	69255	81531	93470	104670
10°	16683	21800	28386	35456	44135	54039	64863	77274	93005	106655	119273
7.5°	17548	23720	30540	38079	47370	57561	68961	83591	100120	114378	125713
5°	18398	25294	31931	39343	49475	59846	70965	85641	102689	116960	127139
2.5°	19250	26377	32695	39846	50671	61137	72910	88545	105681	118788	127630
0°	20029	26763	32969	39973	51191	61701	73687	89126	108242	120848	129409
-2.5°	20312	26742	32672	39616	50757	60929	72858	89496	107336	120163	128856
-5°	19452	25288	31059	38092	48449	58948	70958	87456	104390	117669	125959
-7.5°	17837	23109	28786	35755	45165	55311	66244	80654	97326	109697	116226
-10°	16146	20668	26030	32481	40773	50409	59471	71733	87141	98109	104790
-12.5°	14212	17882	22832	28470	35871	44272	52560	62932	74700	85980	92936
-15°	12183	15136	19437	24847	30692	36976	44640	53042	62425	71568	79493
-17.5°	10558	12838	16784	21646	26103	31201	38671	45501	52368	59742	66344
-20°	9514	11653	14841	18900	23322	28460	34233	40207	46590	52252	58070



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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°	8680	10879	13338	16721	21428	26148	30589	35161	40457	46240	51114
-25°	7596	9902	12239	15457	19420	23592	26862	30116	34895	39813	43843
-27.5°	6090	8697	11425	14045	17422	20390	23263	26213	30379	34531	37542
-30°	4346	7357	10190	12867	15186	17523	19926	22945	26428	29769	32328
-32.5°	3180	5436	8500	11232	13502	15458	17303	19990	22715	25393	27840
-35°	2029	3678	6066	8847	11512	13589	15595	17542	19590	21873	23990
-37.5°	1747	2191	3657	5733	8286	11000	12973	14911	17001	18716	20496
-40°	1583	1815	2187	2923	4851	6765	8982	11055	13053	14813	16440
-42.5°	1512	1651	1801	2080	2391	3309	4925	6434	8213	9980	11523
-45°	1548	1596	1672	1809	1937	2195	2468	2752	3967	5242	6334
-47.5°	1449	1588	1662	1722	1787	1900	2016	2174	2448	2726	2946
-50°	1285	1432	1562	1690	1752	1797	1845	1938	2065	2196	2292
-52.5°	1080	1223	1366	1496	1602	1704	1805	1881	1947	2013	2045
-55°	897	1016	1132	1248	1364	1473	1585	1699	1805	1902	1951
-57.5°	725	825	924	1013	1105	1199	1302	1413	1522	1625	1678
-60°	562	639	720	792	861	925	1014	1105	1192	1266	1305
-62.5°	411	470	532	590	644	699	766	832	895	946	976
-65°	285	329	370	410	449	495	546	596	642	677	697
-67.5°	194	221	244	265	293	326	362	395	427	449	464
-70°	130	144	157	172	189	207	226	245	264	277	285
-72.5°	82	91	100	110	120	129	138	147	155	163	169
-75°	45	50	57	63	69	75	82	87	92	95	97
-77.5°	28	31	34	36	38	41	44	47	51	53	55
-80°	20	21	22	23	24	25	26	26	27	28	28
-82.5°	14	14	15	15	16	17	17	18	19	20	20
-85°	9	9	9	9	9	10	10	11	12	12	12
-87.5°	8	7	7	6	6	6	6	6	6	6	6
-90°	4	4	4	4	4	4	3	3	2	2	2



REPORT NUMBER: P1306317 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	4	4	4	4	4	4	4	4	4	4	5
87.5°	2	2	2	2	2	2	2	2	2	2	3
85°	2	2	2	2	2	2	2	3	3	4	4
82.5°	3	2	2	2	2	2	3	3	4	4	4
80°	3	2	2	2	2	2	3	3	4	4	4
77.5°	3	2	2	2	2	2	3	3	4	4	4
75°	4	4	4	4	4	4	4	4	4	4	4
72.5°	6	6	6	6	6	6	6	6	6	6	6
70°	8	8	8	8	8	8	8	8	8	8	9
67.5°	9	10	10	10	10	10	9	9	8	9	10
65°	12	14	13	12	13	14	12	11	10	10	11
62.5°	10	10	10	10	10	10	10	10	10	11	12
60°	8	8	8	8	8	8	8	8	9	10	11
57.5°	9	10	10	10	10	10	9	8	8	9	9
55°	10	10	10	10	10	10	10	10	9	10	11
52.5°	12	12	12	12	12	12	12	11	11	12	12
50°	14	14	14	14	14	14	14	14	14	14	14
47.5°	18	18	18	18	18	18	18	18	19	19	18
45°	27	26	26	26	26	26	27	27	31	32	27
42.5°	52	54	56	60	56	54	52	49	55	62	68
40°	89	86	83	84	83	86	89	88	89	85	86
37.5°	185	178	164	155	164	178	185	179	164	145	143
35°	380	371	349	343	349	371	380	419	394	257	310
32.5°	1788	1993	2057	2060	2057	1993	1788	1657	1334	1098	1018
30°	4588	4538	4096	3640	4096	4538	4588	4541	3937	3478	2835
27.5°	11042	12391	13365	13050	13365	12391	11042	9783	8374	7819	6150
25°	19888	20843	21156	20691	21156	20843	19888	17996	16271	15102	12902
22.5°	31224	31797	31747	30700	31747	31797	31224	29375	27968	25591	22630
20°	47020	46929	47398	45268	47398	46929	47020	44343	42436	38207	33754
17.5°	69362	73032	75826	75558	75826	73032	69362	64318	59689	54010	46626
15°	93095	98640	102430	102676	102430	98640	93095	86297	77605	69534	58915
12.5°	113726	119656	122874	122385	122874	119656	113726	104670	93470	81531	69255
10°	126868	131432	134820	135661	134820	131432	126868	119273	106655	93005	77274
7.5°	132138	136410	139362	139318	139362	136410	132138	125713	114378	100120	83591
5°	133113	137319	138990	139307	138990	137319	133113	127139	116960	102689	85641
2.5°	134072	137559	139376	138686	139376	137559	134072	127630	118788	105681	88545
0°	134448	137243	138663	138223	138663	137243	134448	129409	120848	108242	89126
-2.5°	134319	136158	137360	136944	137360	136158	134319	128856	120163	107336	89496
-5°	130882	132465	133025	133332	133025	132465	130882	125959	117669	104390	87456
-7.5°	119836	121917	121248	122258	121248	121917	119836	116226	109697	97326	80654
-10°	108909	110934	110239	110890	110239	110934	108909	104790	98109	87141	71733
-12.5°	98604	101152	101114	102038	101114	101152	98604	92936	85980	74700	62932
-15°	86216	89461	91228	92361	91228	89461	86216	79493	71568	62425	53042
-17.5°	73130	77302	80275	80732	80275	77302	73130	66344	59742	52368	45501
-20°	63069	66831	69629	70531	69629	66831	63069	58070	52252	46590	40207



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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°	54641	57746	59768	60267	59768	57746	54641	51114	46240	40457	35161
-25°	46483	48218	49280	49681	49280	48218	46483	43843	39813	34895	30116
-27.5°	39843	41081	41611	41819	41611	41081	39843	37542	34531	30379	26213
-30°	34284	35235	35817	36034	35817	35235	34284	32328	29769	26428	22945
-32.5°	29709	30655	31269	31489	31269	30655	29709	27840	25393	22715	19990
-35°	25425	26207	26766	27026	26766	26207	25425	23990	21873	19590	17542
-37.5°	21638	22344	22809	22954	22809	22344	21638	20496	18716	17001	14911
-40°	17356	17993	18347	18330	18347	17993	17356	16440	14813	13053	11055
-42.5°	12435	13078	13533	13875	13533	13078	12435	11523	9980	8213	6434
-45°	7065	7593	7933	8093	7933	7593	7065	6334	5242	3967	2752
-47.5°	3077	3173	3221	3222	3221	3173	3077	2946	2726	2448	2174
-50°	2362	2422	2457	2466	2457	2422	2362	2292	2196	2065	1938
-52.5°	2067	2088	2097	2098	2097	2088	2067	2045	2013	1947	1881
-55°	1992	2026	2040	2038	2040	2026	1992	1951	1902	1805	1699
-57.5°	1722	1756	1776	1783	1776	1756	1722	1678	1625	1522	1413
-60°	1336	1357	1376	1389	1376	1357	1336	1305	1266	1192	1105
-62.5°	1000	1018	1036	1048	1036	1018	1000	976	946	895	832
-65°	711	720	735	747	735	720	711	697	677	642	596
-67.5°	476	485	490	492	490	485	476	464	449	427	395
-70°	290	293	300	305	300	293	290	285	277	264	245
-72.5°	176	181	181	179	181	181	176	169	163	155	147
-75°	99	101	101	102	101	101	99	97	95	92	87
-77.5°	56	57	57	56	57	57	56	55	53	51	47
-80°	29	30	30	30	30	30	29	28	28	27	26
-82.5°	21	22	21	20	21	22	21	20	20	19	18
-85°	12	12	12	12	12	12	12	12	12	12	11
-87.5°	6	6	6	6	6	6	6	6	6	6	6
-90°	2	2	1	0	1	2	2	2	2	2	3



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5	6	6	6	6	6	6	6	6	6	6
87.5°	3	4	4	4	4	4	4	4	4	4	4
85°	4	4	4	4	4	4	4	4	4	4	4
82.5°	4	4	4	4	4	4	4	4	4	4	4
80°	4	4	4	4	4	5	5	5	5	5	6
77.5°	4	4	4	5	5	6	6	6	6	6	6
75°	5	5	5	5	6	6	6	7	7	7	6
72.5°	7	7	8	8	7	8	8	8	8	8	8
70°	9	10	11	12	12	12	12	11	10	10	9
67.5°	11	12	14	16	17	18	18	17	15	14	11
65°	13	14	16	18	20	22	25	25	24	21	15
62.5°	14	16	17	18	20	23	30	33	34	30	23
60°	12	14	16	17	19	25	34	41	46	39	29
57.5°	10	11	13	15	17	26	36	47	55	44	35
55°	12	12	12	13	15	24	35	46	53	46	36
52.5°	12	12	13	14	16	22	30	41	45	40	33
50°	14	14	14	14	16	20	26	35	35	32	27
47.5°	18	17	16	16	18	19	24	28	28	26	22
45°	32	31	23	23	25	25	24	26	26	23	18
42.5°	60	62	62	46	38	37	35	32	30	25	22
40°	84	74	77	78	64	54	54	45	41	34	32
37.5°	129	108	115	99	91	86	85	72	55	60	57
35°	254	223	230	196	144	166	142	115	101	103	92
32.5°	619	611	498	421	362	320	266	188	197	183	147
30°	2143	1590	1123	1000	921	616	457	444	355	295	222
27.5°	5541	3564	2691	2733	2019	1363	1101	896	609	460	351
25°	11726	9118	6816	6095	4679	3090	2463	1809	1149	666	540
22.5°	20277	17052	13528	10819	8645	6537	4816	3121	1836	1065	766
20°	28985	25620	20991	16800	13422	10177	7795	5196	3107	1673	1005
17.5°	39652	34167	28112	22614	18537	14611	10632	7364	4589	2311	1250
15°	49999	41844	34293	28000	23128	17464	13036	9356	6281	3324	1725
12.5°	58177	48661	40133	31660	25841	19694	15255	11403	7818	4380	2132
10°	64863	54039	44135	35456	28386	21800	16683	12383	8395	5125	2503
7.5°	68961	57561	47370	38079	30540	23720	17548	12787	8685	5652	2831
5°	70965	59846	49475	39343	31931	25294	18398	12911	8727	5979	3106
2.5°	72910	61137	50671	39846	32695	26377	19250	12998	8806	6129	3197
0°	73687	61701	51191	39973	32969	26763	20029	13030	8858	6133	3214
-2.5°	72858	60929	50757	39616	32672	26742	20312	14013	9416	6430	3304
-5°	70958	58948	48449	38092	31059	25288	19452	14053	9545	6467	3309
-7.5°	66244	55311	45165	35755	28786	23109	17837	13098	8960	5898	3042
-10°	59471	50409	40773	32481	26030	20668	16146	11944	8207	5218	2711
-12.5°	52560	44272	35871	28470	22832	17882	14212	10607	7286	4445	2326
-15°	44640	36976	30692	24847	19437	15136	12183	9284	6478	3670	1895
-17.5°	38671	31201	26103	21646	16784	12838	10558	8282	5694	3093	1523
-20°	34233	28460	23322	18900	14841	11653	9514	7336	4775	2597	1442



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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°	30589	26148	21428	16721	13338	10879	8680	6356	3714	1974	1339
-25°	26862	23592	19420	15457	12239	9902	7596	5035	2903	1584	1230
-27.5°	23263	20390	17422	14045	11425	8697	6090	3643	2013	1441	1190
-30°	19926	17523	15186	12867	10190	7357	4346	2603	1644	1311	1149
-32.5°	17303	15458	13502	11232	8500	5436	3180	1808	1449	1257	1153
-35°	15595	13589	11512	8847	6066	3678	2029	1604	1353	1215	1169
-37.5°	12973	11000	8286	5733	3657	2191	1747	1475	1289	1228	1134
-40°	8982	6765	4851	2923	2187	1815	1583	1400	1322	1207	1073
-42.5°	4925	3309	2391	2080	1801	1651	1512	1436	1316	1152	980
-45°	2468	2195	1937	1809	1672	1596	1548	1406	1238	1053	874
-47.5°	2016	1900	1787	1722	1662	1588	1449	1299	1106	928	780
-50°	1845	1797	1752	1690	1562	1432	1285	1126	957	809	678
-52.5°	1805	1704	1602	1496	1366	1223	1080	948	809	687	576
-55°	1585	1473	1364	1248	1132	1016	897	780	673	567	475
-57.5°	1302	1199	1105	1013	924	825	725	628	543	457	375
-60°	1014	925	861	792	720	639	562	487	416	352	286
-62.5°	766	699	644	590	532	470	411	359	307	253	210
-65°	546	495	449	410	370	329	285	248	215	181	146
-67.5°	362	326	293	265	244	221	194	166	145	127	108
-70°	226	207	189	172	157	144	130	115	100	86	72
-72.5°	138	129	120	110	100	91	82	72	62	50	42
-75°	82	75	69	63	57	50	45	41	37	32	28
-77.5°	44	41	38	36	34	31	28	25	23	22	20
-80°	26	25	24	23	22	21	20	19	17	16	15
-82.5°	17	17	16	15	15	14	14	13	12	11	11
-85°	10	10	9	9	9	9	9	9	9	9	9
-87.5°	6	6	6	6	7	7	8	8	8	7	7
-90°	3	4	4	4	4	4	4	4	4	4	4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	6	6	6	6	6	6	6	6	6	6	6
87.5°	4	4	4	4	4	4	4	4	5	5	6
85°	4	4	4	4	4	4	4	4	5	5	6
82.5°	4	4	4	4	4	5	5	5	5	5	6
80°	5	5	4	4	5	5	5	5	5	5	6
77.5°	6	5	4	4	5	5	6	6	6	6	6
75°	6	6	5	5	5	5	6	6	6	6	6
72.5°	7	6	6	6	6	6	6	6	6	6	6
70°	8	7	6	6	6	6	6	6	6	6	6
67.5°	9	8	7	6	6	6	6	6	6	6	6
65°	12	9	8	7	6	6	6	6	6	6	6
62.5°	16	11	9	8	7	6	6	6	6	6	6
60°	22	15	11	9	8	6	6	6	6	6	6
57.5°	25	19	14	11	9	7	6	6	6	6	6
55°	27	20	17	13	11	9	7	7	6	6	6
52.5°	25	21	19	15	12	10	8	7	7	6	6
50°	21	21	20	16	13	11	10	8	7	6	6
47.5°	19	21	20	18	14	12	11	9	8	7	6
45°	20	20	21	19	16	13	11	10	8	7	6
42.5°	22	22	21	20	18	15	12	11	9	8	7
40°	29	26	22	22	20	16	13	11	10	9	7
37.5°	39	33	27	27	23	18	14	12	10	9	8
35°	69	44	43	38	29	21	15	12	11	10	8
32.5°	106	80	75	57	37	24	18	14	12	10	9
30°	178	170	123	80	50	32	21	16	13	11	9
27.5°	313	289	193	124	73	41	26	18	13	11	10
25°	467	422	309	182	99	66	32	21	15	12	10
22.5°	642	562	445	249	153	99	45	25	17	13	11
20°	817	709	589	334	220	144	69	30	19	13	11
17.5°	998	831	666	436	290	194	97	36	21	14	11
15°	1144	911	734	525	356	246	128	41	23	15	12
12.5°	1265	986	797	600	417	299	161	47	25	15	12
10°	1373	1056	855	664	475	353	195	52	27	16	12
7.5°	1470	1120	907	716	521	387	217	57	30	16	12
5°	1545	1171	941	732	526	396	233	62	32	17	12
2.5°	1571	1205	961	737	527	399	245	66	34	17	12
0°	1580	1231	974	735	524	399	253	70	36	18	12
-2.5°	1593	1237	990	766	551	413	267	87	47	24	14
-5°	1591	1234	999	790	573	423	276	103	57	30	16
-7.5°	1536	1203	991	804	590	431	282	118	67	35	18
-10°	1459	1152	961	796	601	440	286	131	75	40	20
-12.5°	1368	1096	934	786	609	450	292	144	83	44	21
-15°	1264	1036	911	777	613	457	294	154	90	47	22
-17.5°	1158	972	894	769	613	460	292	162	95	51	24
-20°	1123	951	884	764	610	460	284	167	99	53	26



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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°	1093	970	883	756	604	456	272	168	100	54	27
-25°	1061	991	877	735	595	439	264	165	100	54	28
-27.5°	1067	1003	862	706	567	416	260	164	98	53	28
-30°	1091	979	826	668	534	377	251	160	96	52	27
-32.5°	1095	944	776	627	490	338	234	153	92	51	27
-35°	1046	886	716	580	442	312	213	143	87	49	27
-37.5°	991	815	659	527	393	282	196	130	79	46	26
-40°	907	744	601	473	353	249	175	117	73	42	24
-42.5°	816	675	542	419	311	222	152	103	66	39	22
-45°	734	602	480	368	267	193	135	88	58	36	20
-47.5°	649	529	417	313	231	164	115	78	50	31	18
-50°	563	454	352	265	192	140	96	67	44	26	16
-52.5°	474	377	291	217	161	115	83	56	37	23	14
-55°	385	306	232	176	130	96	69	48	30	20	12
-57.5°	304	235	184	139	105	79	57	39	25	16	11
-60°	227	183	141	111	85	63	46	30	21	13	11
-62.5°	170	135	111	86	66	49	34	25	16	13	11
-65°	124	103	82	64	48	35	27	19	14	12	10
-67.5°	89	73	58	43	34	27	19	15	13	11	10
-70°	59	46	38	32	25	19	16	13	11	10	9
-72.5°	37	32	27	21	18	16	13	12	11	10	8
-75°	24	21	19	17	15	13	12	11	10	9	8
-77.5°	18	16	14	13	12	11	11	10	9	9	8
-80°	14	13	12	11	10	10	10	9	9	8	8
-82.5°	10	10	10	9	9	9	9	9	8	8	8
-85°	9	9	8	8	8	8	8	8	8	7	7
-87.5°	7	7	7	7	7	7	7	7	7	7	7
-90°	4	4	4	4	4	4	4	4	5	5	6



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6	6	6	6	6	6	6
87.5°	6	6	6	6	6	6	6
85°	6	6	6	6	6	6	6
82.5°	6	6	6	6	6	6	6
80°	6	6	6	6	6	6	6
77.5°	6	6	6	6	6	6	6
75°	6	6	6	6	6	6	6
72.5°	6	6	6	6	6	6	6
70°	6	6	6	6	6	6	6
67.5°	6	6	6	6	6	6	6
65°	6	6	6	6	6	6	6
62.5°	6	6	6	6	6	6	6
60°	6	6	6	6	6	6	6
57.5°	6	6	6	6	6	6	6
55°	6	6	6	6	6	6	6
52.5°	6	6	6	6	6	6	6
50°	7	6	6	6	6	6	6
47.5°	7	6	6	6	6	6	6
45°	7	7	6	6	6	6	6
42.5°	7	7	6	6	6	6	6
40°	7	7	6	6	6	6	6
37.5°	7	7	6	6	6	6	6
35°	7	8	7	6	6	6	6
32.5°	7	8	7	6	6	6	6
30°	8	8	7	6	6	6	6
27.5°	8	8	7	6	6	6	6
25°	9	8	7	7	6	6	6
22.5°	9	8	8	7	6	6	6
20°	9	8	8	7	6	6	6
17.5°	9	8	8	7	6	6	6
15°	10	8	8	7	6	6	6
12.5°	10	8	8	7	6	6	6
10°	10	8	8	7	6	6	6
7.5°	10	8	8	8	6	6	6
5°	10	8	8	8	6	6	6
2.5°	10	8	8	8	6	6	6
0°	10	8	8	8	6	6	6
-2.5°	11	8	8	8	6	6	6
-5°	11	8	8	8	6	6	6
-7.5°	11	9	8	8	6	6	6
-10°	12	9	8	8	6	6	6
-12.5°	12	9	8	8	6	6	6
-15°	12	9	8	8	6	6	6
-17.5°	13	9	8	8	7	6	6
-20°	13	9	8	8	7	6	6



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	14	9	8	8	7	6	6
-25°	15	9	8	8	7	6	6
-27.5°	15	10	8	8	7	6	6
-30°	15	10	8	8	7	6	6
-32.5°	15	9	8	8	7	6	6
-35°	15	9	8	8	7	6	6
-37.5°	14	9	8	8	7	6	6
-40°	14	9	8	8	7	6	6
-42.5°	13	9	8	8	7	6	6
-45°	12	9	8	8	7	6	6
-47.5°	11	9	8	8	7	6	6
-50°	10	9	8	8	6	6	6
-52.5°	10	9	8	8	6	6	6
-55°	10	9	8	8	6	6	6
-57.5°	10	9	8	7	6	6	6
-60°	10	9	8	7	6	6	6
-62.5°	9	8	8	7	6	6	6
-65°	9	8	8	7	6	6	6
-67.5°	8	8	7	7	6	6	6
-70°	8	8	7	6	6	6	6
-72.5°	8	8	7	6	6	6	6
-75°	8	8	7	6	6	6	6
-77.5°	8	7	7	6	6	6	6
-80°	8	7	7	6	6	6	6
-82.5°	8	7	7	6	6	6	6
-85°	7	7	6	6	6	6	6
-87.5°	7	6	6	6	6	6	6
-90°	6	6	6	6	6	6	6

(END OF REPORT)