

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: McGRAW-EDISON

Report Number: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-16-720PL-RGB-2S_RED-ONLY**

Issue Date: 11/1/2023

Test Information

Test Method: LM-79-08
Report Number: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-140-9)
Test Lab: INNOVATION CENTER
Issue Date: 11/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: EPH-LS-16-720PL-RGB-2S_RED-ONLY
Description: LUMASPORT 16 PRISM RGB
Light Source: -
Ballast/Driver: -

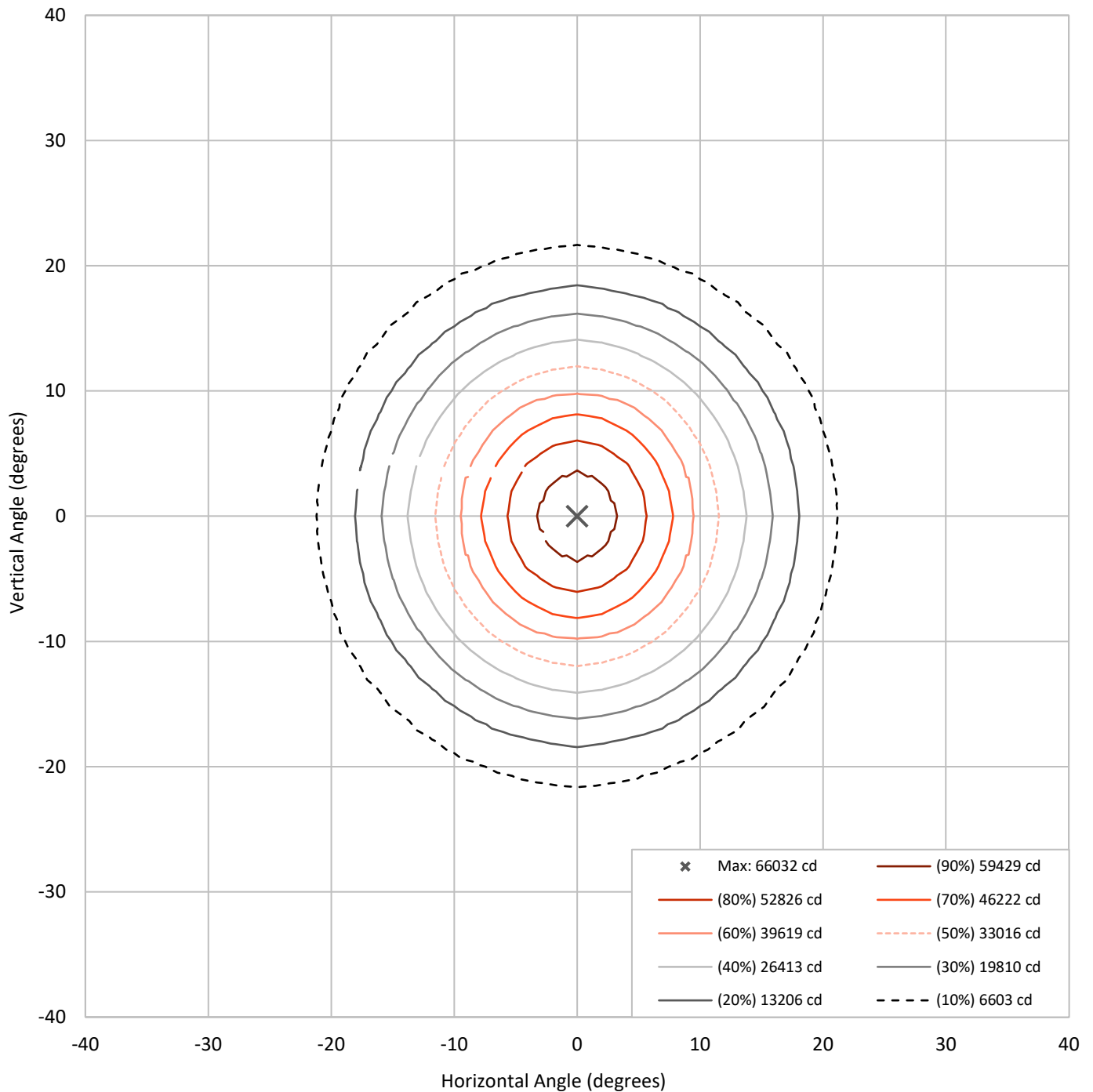
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	13835.9 lumens	Max Intensity:	66032 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	37.1 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	23.1°H x 24°V	Field Angle (10%):	42.4°H x 43.3°V
Beam Lumens:	5902 lumens	Field Lumens:	11061.5 lumens
Beam Efficiency:	42.7%	Field Efficiency:	79.9%
Input Watts (W):	373.3		
Input Voltage (V):	NR		
Input Current (A _{in}):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

Iso-Candela Plot





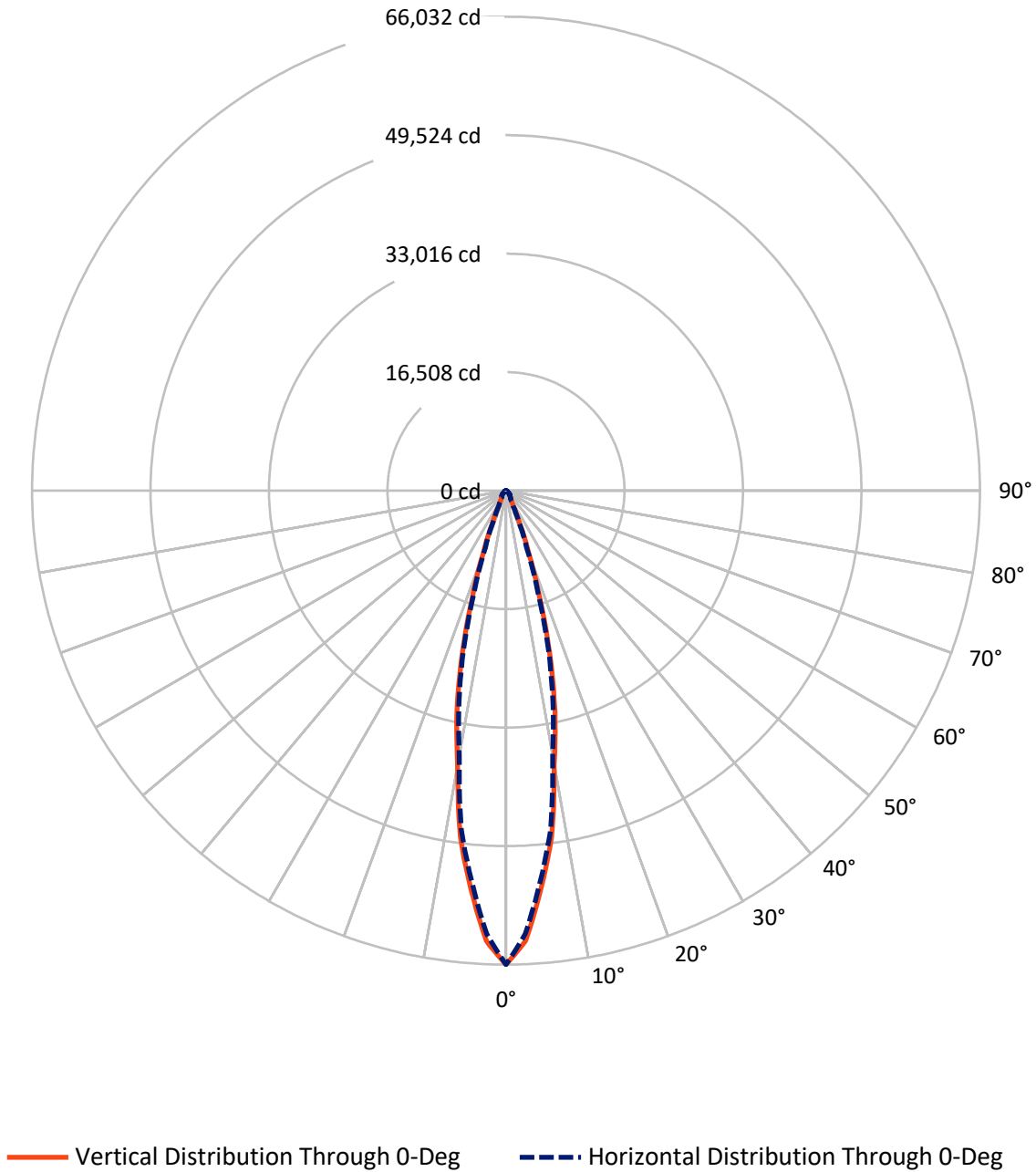
REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

Lumen Table

90	0.0	0.1	0.4	1.1	1.5	1.1	0.4	0.1	0.0										
80	0.0	0.1	0.4	1.1	1.5	1.1	0.4	0.1	0.0										
70	0.1	0.1	0.3	0.9	1.7	2.6	3.4	3.9	3.9	3.4	2.6	1.7	0.9	0.3	0.1	0.1			
60		0.2	1.0	2.5	4.5	6.5	8.0	8.8	8.8	8.0	6.5	4.5	2.5	1.0	0.2				
50	0.2	0.6	2.1	4.6	7.5	12.0	17.2	20.1	20.1	17.2	12.0	7.5	4.6	2.1	0.6	0.2			
40		0.9	3.1	6.5	13.5	22.1	28.0	31.7	31.7	28.0	22.1	13.5	6.5	3.1	0.9				
30	0.4	1.3	4.1	9.4	20.0	29.6	49.5	95.8	95.8	49.5	29.6	20.0	9.4	4.1	1.3	0.4			
20		1.6	4.7	12.9	23.6	46.1	226.6	607.7	607.7	226.6	46.1	23.6	12.9	4.7	1.6				
10	0.5	1.7	5.0	14.5	25.9	83.4	573.4	1404.5	1404.5	573.4	83.4	25.9	14.5	5.0	1.7	0.5			
0		1.7	5.0	14.5	25.9	83.4	573.4	1404.5	1404.5	573.4	83.4	25.9	14.5	5.0	1.7				
-10	0.4	1.6	4.7	12.9	23.6	46.1	226.6	607.7	607.7	226.6	46.1	23.6	12.9	4.7	1.6	0.4			
-20		1.3	4.1	9.4	20.0	29.6	49.5	95.8	95.8	49.5	29.6	20.0	9.4	4.1	1.3				
-30	0.2	0.9	3.1	6.5	13.5	22.1	28.0	31.7	31.7	28.0	22.1	13.5	6.5	3.1	0.9	0.2			
-40		0.6	2.1	4.6	7.5	12.0	17.2	20.1	20.1	17.2	12.0	7.5	4.6	2.1	0.6				
-50	0.1	0.2	1.0	2.5	4.5	6.5	8.0	8.8	8.8	8.0	6.5	4.5	2.5	1.0	0.2	0.1			
-60		0.1	0.3	0.9	1.7	2.6	3.4	3.9	3.9	3.4	2.6	1.7	0.9	0.3	0.1				
-70	0.0	0.1	0.4	1.1	1.5	1.1	0.4	0.1	0.0							0.0			
-80		0.1	0.4	1.1	1.5	1.1	0.4	0.1	0.0										
-90	0.0	0.1	0.4	1.1	1.5	1.1	0.4	0.1	0.0							0.0			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90

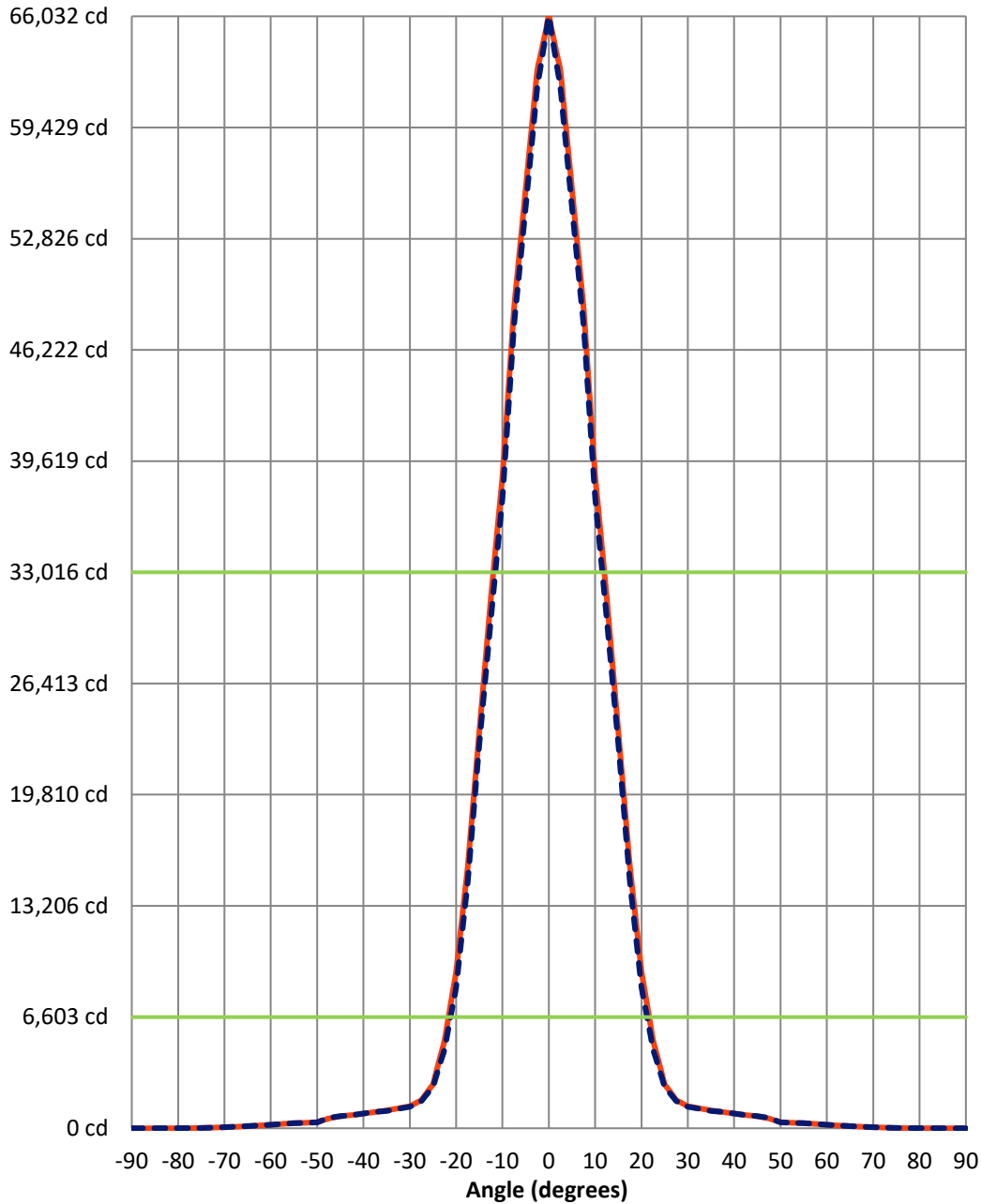
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CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

Luminous Intensity Polar Plot



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

Luminous Intensity Plot



Beam:
 H Angle: 23.1°
 V Angle: 24°
 Lumens: 5902
 Efficiency: 42.7%

Field:
 H Angle: 42.4°
 V Angle: 43.3°
 Lumens: 11061.5
 Efficiency: 79.9%

Spill:
 Lumens: 2774.5
 Efficiency: 20.1%

— 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	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	1
80°	0	0	0	0	0	0	0	0	1	1	1
77.5°	0	0	0	0	0	0	1	1	1	2	2
75°	0	0	0	0	0	1	1	2	2	2	2
72.5°	0	0	0	0	0	1	2	2	2	2	2
70°	0	0	0	0	1	1	2	2	2	2	3
67.5°	0	0	0	0	1	2	2	2	2	3	3
65°	0	0	0	1	1	2	2	2	3	3	4
62.5°	0	0	0	1	2	2	2	2	3	4	6
60°	0	0	0	1	2	2	2	3	4	6	7
57.5°	0	0	0	1	2	3	3	3	5	7	11
55°	0	0	0	1	2	3	3	4	6	9	15
52.5°	0	0	0	2	3	3	3	5	7	12	19
50°	0	0	1	2	3	3	4	6	9	16	26
47.5°	0	0	1	2	3	3	4	7	12	20	33
45°	0	0	1	2	3	4	5	8	15	26	40
42.5°	0	0	1	2	3	4	6	10	18	32	48
40°	0	0	1	3	4	4	7	12	21	37	55
37.5°	0	0	1	3	4	4	8	14	26	43	62
35°	0	0	1	3	4	4	9	16	31	49	69
32.5°	0	0	1	3	4	5	10	18	35	55	76
30°	0	0	1	3	4	6	11	20	39	60	83
27.5°	0	0	2	3	4	6	13	24	43	65	89
25°	0	0	2	3	4	7	14	27	47	70	94
22.5°	0	0	2	3	4	8	15	29	50	74	101
20°	0	0	2	4	4	8	16	32	54	78	107
17.5°	0	0	2	4	5	9	17	34	57	82	112
15°	0	0	2	4	5	9	18	36	59	85	116
12.5°	0	0	2	4	5	9	18	37	61	88	120
10°	0	0	2	4	5	9	19	38	62	90	123
7.5°	0	0	2	4	5	10	19	39	63	92	126
5°	0	0	2	4	6	10	19	39	63	93	128
2.5°	0	0	2	4	6	10	20	39	63	94	129
0°	0	0	2	4	6	10	20	39	63	94	129
-2.5°	0	0	2	4	6	10	20	39	63	94	129
-5°	0	0	2	4	6	10	19	39	63	93	128
-7.5°	0	0	2	4	5	10	19	39	63	92	126
-10°	0	0	2	4	5	9	19	38	62	90	123
-12.5°	0	0	2	4	5	9	18	37	61	88	120
-15°	0	0	2	4	5	9	18	36	59	85	116
-17.5°	0	0	2	4	5	9	17	34	57	82	112
-20°	0	0	2	4	4	8	16	32	54	78	107



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	0	2	3	4	8	15	29	50	74	101
-25°	0	0	2	3	4	7	14	27	47	70	94
-27.5°	0	0	2	3	4	6	13	24	43	65	89
-30°	0	0	1	3	4	6	11	20	39	60	83
-32.5°	0	0	1	3	4	5	10	18	35	55	76
-35°	0	0	1	3	4	4	9	16	31	49	69
-37.5°	0	0	1	3	4	4	8	14	26	43	62
-40°	0	0	1	3	4	4	7	12	21	37	55
-42.5°	0	0	1	2	3	4	6	10	18	32	48
-45°	0	0	1	2	3	4	5	8	15	26	40
-47.5°	0	0	1	2	3	3	4	7	12	20	33
-50°	0	0	1	2	3	3	4	6	9	16	26
-52.5°	0	0	0	2	3	3	3	5	7	12	19
-55°	0	0	0	1	2	3	3	4	6	9	15
-57.5°	0	0	0	1	2	3	3	3	5	7	11
-60°	0	0	0	1	2	2	2	3	4	6	7
-62.5°	0	0	0	1	2	2	2	2	3	4	6
-65°	0	0	0	1	1	2	2	2	3	3	4
-67.5°	0	0	0	0	1	2	2	2	2	3	3
-70°	0	0	0	0	1	1	2	2	2	2	3
-72.5°	0	0	0	0	0	1	2	2	2	2	2
-75°	0	0	0	0	0	1	1	2	2	2	2
-77.5°	0	0	0	0	0	0	1	1	1	2	2
-80°	0	0	0	0	0	0	0	0	1	1	1
-82.5°	0	0	0	0	0	0	0	0	0	0	1
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

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°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	1	1	1	1	1	1	1	0	0	1	1
80°	2	2	2	2	2	2	2	2	2	2	2
77.5°	2	2	2	2	2	2	3	3	3	4	4
75°	2	2	2	3	3	4	4	5	5	6	7
72.5°	2	3	3	4	5	6	7	7	9	12	14
70°	3	4	5	6	7	9	12	15	18	21	26
67.5°	4	6	7	9	12	16	20	25	32	37	42
65°	6	7	11	15	19	25	32	39	47	54	60
62.5°	8	12	17	22	29	36	46	55	64	73	82
60°	12	17	24	32	40	51	62	73	84	94	107
57.5°	17	25	34	44	55	67	80	92	106	121	134
55°	23	34	45	57	70	84	98	115	131	147	161
52.5°	31	43	56	70	86	102	120	139	156	174	192
50°	39	53	67	85	102	122	143	163	182	202	224
47.5°	48	63	81	100	120	142	164	186	208	234	259
45°	56	74	94	115	137	161	186	209	239	266	289
42.5°	65	85	107	129	155	181	207	238	268	294	309
40°	74	95	120	145	172	201	233	265	294	311	319
37.5°	83	107	133	160	190	222	257	289	310	320	344
35°	91	118	146	175	208	244	279	307	319	341	409
32.5°	100	128	158	191	227	264	299	315	335	381	546
30°	109	139	170	206	245	282	309	325	353	504	637
27.5°	118	149	183	221	261	298	315	341	437	607	704
25°	125	158	195	235	275	306	323	355	538	667	745
22.5°	133	167	205	249	288	311	335	434	620	723	776
20°	140	175	215	260	300	315	346	521	672	753	811
17.5°	146	183	225	269	305	322	366	604	720	778	842
15°	151	189	233	278	308	330	431	647	751	801	865
12.5°	156	195	240	285	312	337	486	673	763	820	886
10°	160	199	246	292	314	342	530	694	771	835	907
7.5°	163	203	250	297	316	346	564	709	777	849	928
5°	165	205	254	300	318	348	589	719	780	861	945
2.5°	166	207	256	303	319	351	609	723	781	871	959
0°	166	207	256	303	319	352	618	720	779	877	971
-2.5°	166	207	256	303	319	351	609	723	781	871	959
-5°	165	205	254	300	318	348	589	719	780	861	945
-7.5°	163	203	250	297	316	346	564	709	777	849	928
-10°	160	199	246	292	314	342	530	694	771	835	907
-12.5°	156	195	240	285	312	337	486	673	763	820	886
-15°	151	189	233	278	308	330	431	647	751	801	865
-17.5°	146	183	225	269	305	322	366	604	720	778	842
-20°	140	175	215	260	300	315	346	521	672	753	811



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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°	133	167	205	249	288	311	335	434	620	723	776
-25°	125	158	195	235	275	306	323	355	538	667	745
-27.5°	118	149	183	221	261	298	315	341	437	607	704
-30°	109	139	170	206	245	282	309	325	353	504	637
-32.5°	100	128	158	191	227	264	299	315	335	381	546
-35°	91	118	146	175	208	244	279	307	319	341	409
-37.5°	83	107	133	160	190	222	257	289	310	320	344
-40°	74	95	120	145	172	201	233	265	294	311	319
-42.5°	65	85	107	129	155	181	207	238	268	294	309
-45°	56	74	94	115	137	161	186	209	239	266	289
-47.5°	48	63	81	100	120	142	164	186	208	234	259
-50°	39	53	67	85	102	122	143	163	182	202	224
-52.5°	31	43	56	70	86	102	120	139	156	174	192
-55°	23	34	45	57	70	84	98	115	131	147	161
-57.5°	17	25	34	44	55	67	80	92	106	121	134
-60°	12	17	24	32	40	51	62	73	84	94	107
-62.5°	8	12	17	22	29	36	46	55	64	73	82
-65°	6	7	11	15	19	25	32	39	47	54	60
-67.5°	4	6	7	9	12	16	20	25	32	37	42
-70°	3	4	5	6	7	9	12	15	18	21	26
-72.5°	2	3	3	4	5	6	7	7	9	12	14
-75°	2	2	2	3	3	4	4	5	5	6	7
-77.5°	2	2	2	2	2	2	3	3	3	4	4
-80°	2	2	2	2	2	2	2	2	2	2	2
-82.5°	1	1	1	1	1	1	1	0	0	1	1
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

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°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	1	1	1	1	1	2	2	2	2	2	2
80°	3	3	3	3	3	3	3	4	4	3	3
77.5°	4	5	5	6	6	6	6	6	6	6	6
75°	7	8	10	11	13	14	15	16	17	18	18
72.5°	16	18	20	23	26	28	31	33	34	35	36
70°	30	33	37	41	44	48	51	54	56	58	60
67.5°	47	52	57	61	66	71	75	79	83	85	87
65°	66	74	81	87	93	98	104	109	113	117	120
62.5°	91	100	108	116	123	129	137	143	149	153	157
60°	118	129	139	148	157	167	175	182	189	195	200
57.5°	147	158	170	183	194	204	215	226	234	241	247
55°	176	192	206	221	237	251	264	273	280	288	294
52.5°	209	228	248	265	279	292	303	309	313	316	319
50°	246	267	285	301	310	316	322	330	338	345	351
47.5°	280	300	311	319	329	343	357	377	433	484	526
45°	306	315	327	345	361	435	511	579	625	662	689
42.5°	317	337	358	440	539	613	662	706	738	755	766
40°	343	387	511	612	672	728	753	778	799	814	822
37.5°	412	554	649	717	752	780	814	847	872	887	900
35°	564	662	739	766	800	842	883	922	950	972	992
32.5°	656	734	771	810	856	914	966	1001	1030	1064	1097
30°	722	769	817	865	932	991	1041	1086	1133	1180	1225
27.5°	759	815	873	941	1002	1059	1118	1182	1250	1311	1403
25°	799	866	939	1001	1061	1124	1211	1297	1425	1597	1827
22.5°	843	918	990	1046	1123	1219	1341	1518	1847	2318	2963
20°	884	967	1026	1106	1203	1332	1565	2020	2703	3810	5213
17.5°	921	998	1070	1166	1282	1534	1999	2891	4345	6205	8443
15°	948	1022	1117	1230	1412	1831	2666	4362	6567	9588	13231
12.5°	966	1049	1155	1288	1585	2262	3810	6210	9504	14279	19586
10°	984	1074	1199	1378	1810	2894	5145	8292	13199	19202	25183
7.5°	1005	1103	1240	1465	2025	3572	6310	10315	16771	23784	30126
5°	1019	1127	1264	1537	2270	4144	7376	12628	19977	27277	34395
2.5°	1027	1146	1275	1602	2434	4650	7972	14013	21752	29413	36724
0°	1029	1156	1278	1618	2458	4696	8373	14621	22810	30245	37451
-2.5°	1027	1146	1275	1602	2434	4650	7972	14013	21752	29413	36724
-5°	1019	1127	1264	1537	2270	4144	7376	12628	19977	27277	34395
-7.5°	1005	1103	1240	1465	2025	3572	6310	10315	16771	23784	30126
-10°	984	1074	1199	1378	1810	2894	5145	8292	13199	19202	25183
-12.5°	966	1049	1155	1288	1585	2262	3810	6210	9504	14279	19586
-15°	948	1022	1117	1230	1412	1831	2666	4362	6567	9588	13231
-17.5°	921	998	1070	1166	1282	1534	1999	2891	4345	6205	8443
-20°	884	967	1026	1106	1203	1332	1565	2020	2703	3810	5213



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	843	918	990	1046	1123	1219	1341	1518	1847	2318	2963
-25°	799	866	939	1001	1061	1124	1211	1297	1425	1597	1827
-27.5°	759	815	873	941	1002	1059	1118	1182	1250	1311	1403
-30°	722	769	817	865	932	991	1041	1086	1133	1180	1225
-32.5°	656	734	771	810	856	914	966	1001	1030	1064	1097
-35°	564	662	739	766	800	842	883	922	950	972	992
-37.5°	412	554	649	717	752	780	814	847	872	887	900
-40°	343	387	511	612	672	728	753	778	799	814	822
-42.5°	317	337	358	440	539	613	662	706	738	755	766
-45°	306	315	327	345	361	435	511	579	625	662	689
-47.5°	280	300	311	319	329	343	357	377	433	484	526
-50°	246	267	285	301	310	316	322	330	338	345	351
-52.5°	209	228	248	265	279	292	303	309	313	316	319
-55°	176	192	206	221	237	251	264	273	280	288	294
-57.5°	147	158	170	183	194	204	215	226	234	241	247
-60°	118	129	139	148	157	167	175	182	189	195	200
-62.5°	91	100	108	116	123	129	137	143	149	153	157
-65°	66	74	81	87	93	98	104	109	113	117	120
-67.5°	47	52	57	61	66	71	75	79	83	85	87
-70°	30	33	37	41	44	48	51	54	56	58	60
-72.5°	16	18	20	23	26	28	31	33	34	35	36
-75°	7	8	10	11	13	14	15	16	17	18	18
-77.5°	4	5	5	6	6	6	6	6	6	6	6
-80°	3	3	3	3	3	3	3	4	4	3	3
-82.5°	1	1	1	1	1	2	2	2	2	2	2
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

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°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	2	2	2	2	2	2	2	2	2	2	2
80°	2	2	2	2	2	2	2	3	3	4	4
77.5°	6	6	6	6	6	6	6	6	6	6	6
75°	19	19	19	18	19	19	19	18	18	17	16
72.5°	37	37	38	39	38	37	37	36	35	34	33
70°	61	62	62	63	62	62	61	60	58	56	54
67.5°	88	89	90	90	90	89	88	87	85	83	79
65°	123	126	126	125	126	126	123	120	117	113	109
62.5°	161	163	164	164	164	163	161	157	153	149	143
60°	203	205	206	206	206	205	203	200	195	189	182
57.5°	252	255	258	258	258	255	252	247	241	234	226
55°	300	304	306	307	306	304	300	294	288	280	273
52.5°	322	325	326	327	326	325	322	319	316	313	309
50°	355	358	359	360	359	358	355	351	345	338	330
47.5°	554	572	581	581	581	572	554	526	484	433	377
45°	704	713	717	714	717	713	704	689	662	625	579
42.5°	774	780	785	785	785	780	774	766	755	738	706
40°	835	846	857	873	857	846	835	822	814	799	778
37.5°	920	943	960	967	960	943	920	900	887	872	847
35°	1017	1042	1059	1059	1059	1042	1017	992	972	950	922
32.5°	1125	1155	1176	1182	1176	1155	1125	1097	1064	1030	1001
30°	1264	1291	1302	1307	1302	1291	1264	1225	1180	1133	1086
27.5°	1504	1568	1634	1671	1634	1568	1504	1403	1311	1250	1182
25°	2093	2430	2673	2614	2673	2430	2093	1827	1597	1425	1297
22.5°	3732	4353	4910	5219	4910	4353	3732	2963	2318	1847	1518
20°	6595	7889	8763	9309	8763	7889	6595	5213	3810	2703	2020
17.5°	10984	12983	14673	15529	14673	12983	10984	8443	6205	4345	2891
15°	17309	20574	22734	23556	22734	20574	17309	13231	9588	6567	4362
12.5°	24075	27915	30421	31504	30421	27915	24075	19586	14279	9504	6210
10°	30510	35053	38007	38745	38007	35053	30510	25183	19202	13199	8292
7.5°	36293	42377	47261	48712	47261	42377	36293	30126	23784	16771	10315
5°	41456	49835	54372	55769	54372	49835	41456	34395	27277	19977	12628
2.5°	46144	53946	59345	62810	59345	53946	46144	36724	29413	21752	14013
0°	47686	54685	61798	66032	61798	54685	47686	37451	30245	22810	14621
-2.5°	46144	53946	59345	62810	59345	53946	46144	36724	29413	21752	14013
-5°	41456	49835	54372	55769	54372	49835	41456	34395	27277	19977	12628
-7.5°	36293	42377	47261	48712	47261	42377	36293	30126	23784	16771	10315
-10°	30510	35053	38007	38745	38007	35053	30510	25183	19202	13199	8292
-12.5°	24075	27915	30421	31504	30421	27915	24075	19586	14279	9504	6210
-15°	17309	20574	22734	23556	22734	20574	17309	13231	9588	6567	4362
-17.5°	10984	12983	14673	15529	14673	12983	10984	8443	6205	4345	2891
-20°	6595	7889	8763	9308	8763	7889	6595	5213	3810	2703	2020



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3732	4353	4910	5219	4910	4353	3732	2963	2318	1847	1518
-25°	2093	2430	2673	2614	2673	2430	2093	1827	1597	1425	1297
-27.5°	1504	1568	1634	1671	1634	1568	1504	1403	1311	1250	1182
-30°	1264	1291	1302	1307	1302	1291	1264	1225	1180	1133	1086
-32.5°	1125	1155	1176	1182	1176	1155	1125	1097	1064	1030	1001
-35°	1017	1042	1059	1059	1059	1042	1017	992	972	950	922
-37.5°	920	943	960	967	960	943	920	900	887	872	847
-40°	835	846	857	873	857	846	835	822	814	799	778
-42.5°	774	780	785	785	785	780	774	766	755	738	706
-45°	704	713	717	714	717	713	704	689	662	625	579
-47.5°	554	572	581	581	581	572	554	526	484	433	377
-50°	355	358	359	360	359	358	355	351	345	338	330
-52.5°	322	325	326	327	326	325	322	319	316	313	309
-55°	300	304	306	307	306	304	300	294	288	280	273
-57.5°	252	255	258	258	258	255	252	247	241	234	226
-60°	203	205	206	206	206	205	203	200	195	189	182
-62.5°	161	163	164	164	164	163	161	157	153	149	143
-65°	123	126	126	125	126	126	123	120	117	113	109
-67.5°	88	89	90	90	90	89	88	87	85	83	79
-70°	61	62	62	63	62	62	61	60	58	56	54
-72.5°	37	37	38	39	38	37	37	36	35	34	33
-75°	19	19	19	18	19	19	19	18	18	17	16
-77.5°	6	6	6	6	6	6	6	6	6	6	6
-80°	2	2	2	2	2	2	2	3	3	4	4
-82.5°	2	2	2	2	2	2	2	2	2	2	2
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

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°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	2	2	1	1	1	1	1	1	1	0	0
80°	3	3	3	3	3	3	3	2	2	2	2
77.5°	6	6	6	6	5	5	4	4	4	3	3
75°	15	14	13	11	10	8	7	7	6	5	5
72.5°	31	28	26	23	20	18	16	14	12	9	7
70°	51	48	44	41	37	33	30	26	21	18	15
67.5°	75	71	66	61	57	52	47	42	37	32	25
65°	104	98	93	87	81	74	66	60	54	47	39
62.5°	137	129	123	116	108	100	91	82	73	64	55
60°	175	167	157	148	139	129	118	107	94	84	73
57.5°	215	204	194	183	170	158	147	134	121	106	92
55°	264	251	237	221	206	192	176	161	147	131	115
52.5°	303	292	279	265	248	228	209	192	174	156	139
50°	322	316	310	301	285	267	246	224	202	182	163
47.5°	357	343	329	319	311	300	280	259	234	208	186
45°	511	435	361	345	327	315	306	289	266	239	209
42.5°	662	613	539	440	358	337	317	309	294	268	238
40°	753	728	672	612	511	387	343	319	311	294	265
37.5°	814	780	752	717	649	554	412	344	320	310	289
35°	883	842	800	766	739	662	564	409	341	319	307
32.5°	966	914	856	810	771	734	656	546	381	335	315
30°	1041	991	932	865	817	769	722	637	504	353	325
27.5°	1118	1059	1002	941	873	815	759	704	607	437	341
25°	1211	1124	1061	1001	939	866	799	745	667	538	355
22.5°	1341	1219	1123	1046	990	918	843	776	723	620	434
20°	1565	1332	1203	1106	1026	967	884	811	753	672	521
17.5°	1999	1534	1282	1166	1070	998	921	842	778	720	604
15°	2666	1831	1412	1230	1117	1022	948	865	801	751	647
12.5°	3810	2262	1585	1288	1155	1049	966	886	820	763	673
10°	5145	2894	1810	1378	1199	1074	984	907	835	771	694
7.5°	6310	3572	2025	1465	1240	1103	1005	928	849	777	709
5°	7376	4144	2270	1537	1264	1127	1019	945	861	780	719
2.5°	7972	4650	2434	1602	1275	1146	1027	959	871	781	723
0°	8373	4696	2458	1618	1278	1156	1029	971	877	779	720
-2.5°	7972	4650	2434	1602	1275	1146	1027	959	871	781	723
-5°	7376	4144	2270	1537	1264	1127	1019	945	861	780	719
-7.5°	6310	3572	2025	1465	1240	1103	1005	928	849	777	709
-10°	5145	2894	1810	1378	1199	1074	984	907	835	771	694
-12.5°	3810	2262	1585	1288	1155	1049	966	886	820	763	673
-15°	2666	1831	1412	1230	1117	1022	948	865	801	751	647
-17.5°	1999	1534	1282	1166	1070	998	921	842	778	720	604
-20°	1565	1332	1203	1106	1026	967	884	811	753	672	521



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1341	1219	1123	1046	990	918	843	776	723	620	434
-25°	1211	1124	1061	1001	939	866	799	745	667	538	355
-27.5°	1118	1059	1002	941	873	815	759	704	607	437	341
-30°	1041	991	932	865	817	769	722	637	504	353	325
-32.5°	966	914	856	810	771	734	656	546	381	335	315
-35°	883	842	800	766	739	662	564	409	341	319	307
-37.5°	814	780	752	717	649	554	412	344	320	310	289
-40°	753	728	672	612	511	387	343	319	311	294	265
-42.5°	662	613	539	440	358	337	317	309	294	268	238
-45°	511	435	361	345	327	315	306	289	266	239	209
-47.5°	357	343	329	319	311	300	280	259	234	208	186
-50°	322	316	310	301	285	267	246	224	202	182	163
-52.5°	303	292	279	265	248	228	209	192	174	156	139
-55°	264	251	237	221	206	192	176	161	147	131	115
-57.5°	215	204	194	183	170	158	147	134	121	106	92
-60°	175	167	157	148	139	129	118	107	94	84	73
-62.5°	137	129	123	116	108	100	91	82	73	64	55
-65°	104	98	93	87	81	74	66	60	54	47	39
-67.5°	75	71	66	61	57	52	47	42	37	32	25
-70°	51	48	44	41	37	33	30	26	21	18	15
-72.5°	31	28	26	23	20	18	16	14	12	9	7
-75°	15	14	13	11	10	8	7	7	6	5	5
-77.5°	6	6	6	6	5	5	4	4	4	3	3
-80°	3	3	3	3	3	3	3	2	2	2	2
-82.5°	2	2	1	1	1	1	1	1	1	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

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°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	1	1	1	1	1	1	1	1	0	0	0
80°	2	2	2	2	2	2	2	1	1	1	0
77.5°	3	2	2	2	2	2	2	2	2	1	1
75°	4	4	3	3	2	2	2	2	2	2	2
72.5°	7	6	5	4	3	3	2	2	2	2	2
70°	12	9	7	6	5	4	3	3	2	2	2
67.5°	20	16	12	9	7	6	4	3	3	2	2
65°	32	25	19	15	11	7	6	4	3	3	2
62.5°	46	36	29	22	17	12	8	6	4	3	2
60°	62	51	40	32	24	17	12	7	6	4	3
57.5°	80	67	55	44	34	25	17	11	7	5	3
55°	98	84	70	57	45	34	23	15	9	6	4
52.5°	120	102	86	70	56	43	31	19	12	7	5
50°	143	122	102	85	67	53	39	26	16	9	6
47.5°	164	142	120	100	81	63	48	33	20	12	7
45°	186	161	137	115	94	74	56	40	26	15	8
42.5°	207	181	155	129	107	85	65	48	32	18	10
40°	233	201	172	145	120	95	74	55	37	21	12
37.5°	257	222	190	160	133	107	83	62	43	26	14
35°	279	244	208	175	146	118	91	69	49	31	16
32.5°	299	264	227	191	158	128	100	76	55	35	18
30°	309	282	245	206	170	139	109	83	60	39	20
27.5°	315	298	261	221	183	149	118	89	65	43	24
25°	323	306	275	235	195	158	125	94	70	47	27
22.5°	335	311	288	249	205	167	133	101	74	50	29
20°	346	315	300	260	215	175	140	107	78	54	32
17.5°	366	322	305	269	225	183	146	112	82	57	34
15°	431	330	308	278	233	189	151	116	85	59	36
12.5°	486	337	312	285	240	195	156	120	88	61	37
10°	530	342	314	292	246	199	160	123	90	62	38
7.5°	564	346	316	297	250	203	163	126	92	63	39
5°	589	348	318	300	254	205	165	128	93	63	39
2.5°	609	351	319	303	256	207	166	129	94	63	39
0°	618	352	319	303	256	207	166	129	94	63	39
-2.5°	609	351	319	303	256	207	166	129	94	63	39
-5°	589	348	318	300	254	205	165	128	93	63	39
-7.5°	564	346	316	297	250	203	163	126	92	63	39
-10°	530	342	314	292	246	199	160	123	90	62	38
-12.5°	486	337	312	285	240	195	156	120	88	61	37
-15°	431	330	308	278	233	189	151	116	85	59	36
-17.5°	366	322	305	269	225	183	146	112	82	57	34
-20°	346	315	300	260	215	175	140	107	78	54	32



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	335	311	288	249	205	167	133	101	74	50	29
-25°	323	306	275	235	195	158	125	94	70	47	27
-27.5°	315	298	261	221	183	149	118	89	65	43	24
-30°	309	282	245	206	170	139	109	83	60	39	20
-32.5°	299	264	227	191	158	128	100	76	55	35	18
-35°	279	244	208	175	146	118	91	69	49	31	16
-37.5°	257	222	190	160	133	107	83	62	43	26	14
-40°	233	201	172	145	120	95	74	55	37	21	12
-42.5°	207	181	155	129	107	85	65	48	32	18	10
-45°	186	161	137	115	94	74	56	40	26	15	8
-47.5°	164	142	120	100	81	63	48	33	20	12	7
-50°	143	122	102	85	67	53	39	26	16	9	6
-52.5°	120	102	86	70	56	43	31	19	12	7	5
-55°	98	84	70	57	45	34	23	15	9	6	4
-57.5°	80	67	55	44	34	25	17	11	7	5	3
-60°	62	51	40	32	24	17	12	7	6	4	3
-62.5°	46	36	29	22	17	12	8	6	4	3	2
-65°	32	25	19	15	11	7	6	4	3	3	2
-67.5°	20	16	12	9	7	6	4	3	3	2	2
-70°	12	9	7	6	5	4	3	3	2	2	2
-72.5°	7	6	5	4	3	3	2	2	2	2	2
-75°	4	4	3	3	2	2	2	2	2	2	2
-77.5°	3	2	2	2	2	2	2	2	2	1	1
-80°	2	2	2	2	2	2	2	1	1	1	0
-82.5°	1	1	1	1	1	1	1	1	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	1	0	0	0	0	0	0
75°	1	1	0	0	0	0	0
72.5°	2	1	0	0	0	0	0
70°	2	1	1	0	0	0	0
67.5°	2	2	1	0	0	0	0
65°	2	2	1	1	0	0	0
62.5°	2	2	2	1	0	0	0
60°	2	2	2	1	0	0	0
57.5°	3	3	2	1	0	0	0
55°	3	3	2	1	0	0	0
52.5°	3	3	3	2	0	0	0
50°	4	3	3	2	1	0	0
47.5°	4	3	3	2	1	0	0
45°	5	4	3	2	1	0	0
42.5°	6	4	3	2	1	0	0
40°	7	4	4	3	1	0	0
37.5°	8	4	4	3	1	0	0
35°	9	4	4	3	1	0	0
32.5°	10	5	4	3	1	0	0
30°	11	6	4	3	1	0	0
27.5°	13	6	4	3	2	0	0
25°	14	7	4	3	2	0	0
22.5°	15	8	4	3	2	0	0
20°	16	8	4	4	2	0	0
17.5°	17	9	5	4	2	0	0
15°	18	9	5	4	2	0	0
12.5°	18	9	5	4	2	0	0
10°	19	9	5	4	2	0	0
7.5°	19	10	5	4	2	0	0
5°	19	10	6	4	2	0	0
2.5°	20	10	6	4	2	0	0
0°	20	10	6	4	2	0	0
-2.5°	20	10	6	4	2	0	0
-5°	19	10	6	4	2	0	0
-7.5°	19	10	5	4	2	0	0
-10°	19	9	5	4	2	0	0
-12.5°	18	9	5	4	2	0	0
-15°	18	9	5	4	2	0	0
-17.5°	17	9	5	4	2	0	0
-20°	16	8	4	4	2	0	0



REPORT NUMBER: P722783 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS-16-720PL-RGB-2S_RED-ONLY

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	15	8	4	3	2	0	0
-25°	14	7	4	3	2	0	0
-27.5°	13	6	4	3	2	0	0
-30°	11	6	4	3	1	0	0
-32.5°	10	5	4	3	1	0	0
-35°	9	4	4	3	1	0	0
-37.5°	8	4	4	3	1	0	0
-40°	7	4	4	3	1	0	0
-42.5°	6	4	3	2	1	0	0
-45°	5	4	3	2	1	0	0
-47.5°	4	3	3	2	1	0	0
-50°	4	3	3	2	1	0	0
-52.5°	3	3	3	2	0	0	0
-55°	3	3	2	1	0	0	0
-57.5°	3	3	2	1	0	0	0
-60°	2	2	2	1	0	0	0
-62.5°	2	2	2	1	0	0	0
-65°	2	2	1	1	0	0	0
-67.5°	2	2	1	0	0	0	0
-70°	2	1	1	0	0	0	0
-72.5°	2	1	0	0	0	0	0
-75°	1	1	0	0	0	0	0
-77.5°	1	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)