

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: STREETWORKS

Report Number: G3-2106-280-13

Luminaire Tested: **SDL-PA1-20-AMB-U-SL3-A**

Test Date: 6/28/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-13
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/28/2021
Issue Date: 6/28/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-AMB-U-SL3-A
Description: SDL. (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS.
Light Source: (24) CREE AMBER LEDS
GW CSSRM3.PM-N6N8-A535-1. CREE
Ballast/Driver: (1) ADVANCE ELECT DRIVER AT 500 mA
XI100C150V091BSY1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1178.9 lumens
Efficiency: N/A
Efficacy: 37.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Long
BUG Rating: B0 - U2 - G1

Input Watts (W): 31.3
Input Voltage (V): 120.0
Input Current (Ain): 0.266
Voltage Rise (V): NR
Power Factor: 0.9808
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.1
Test Distance: 24 FT

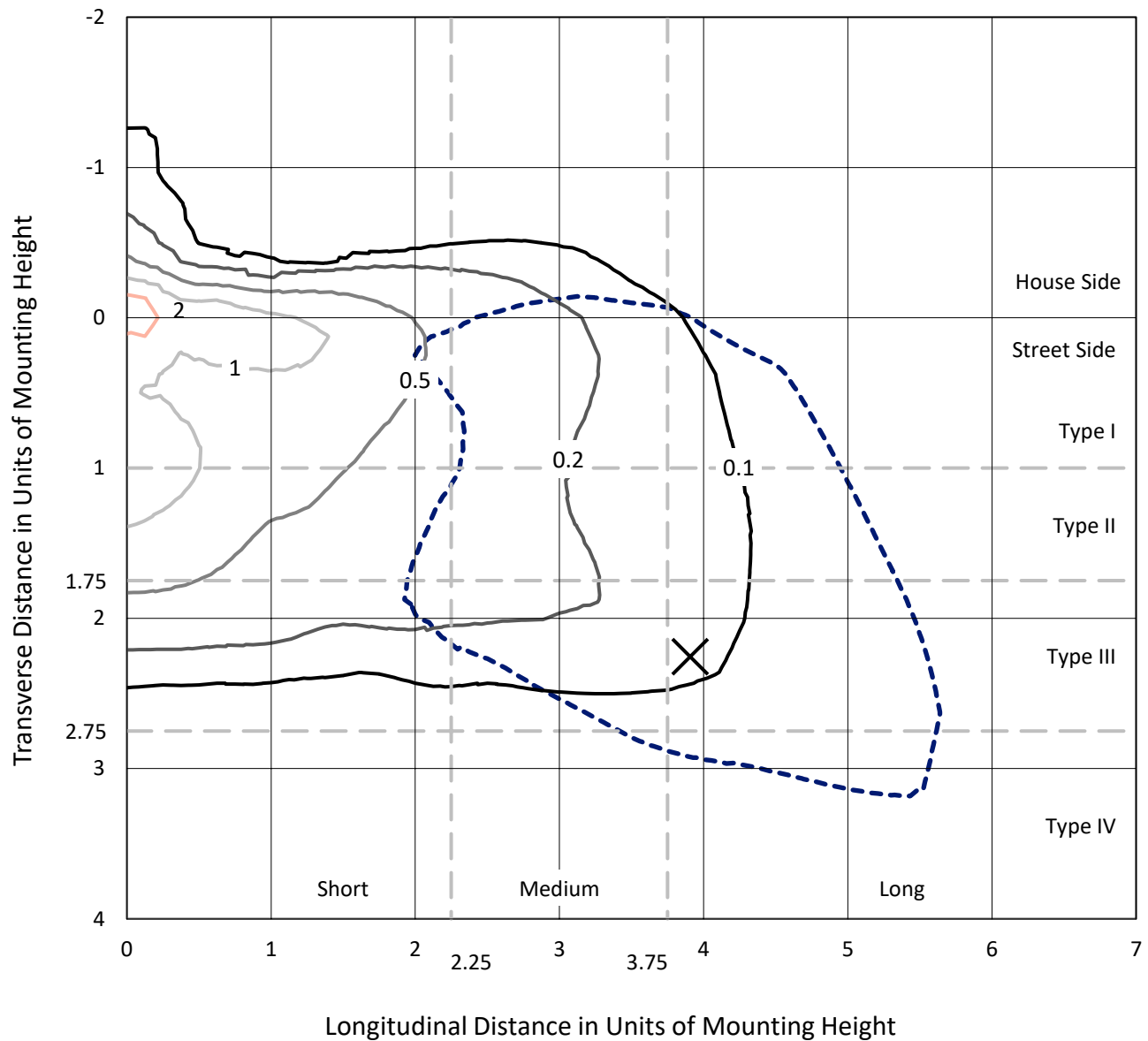


REPORT NUMBER: G3-2106-280-13

CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

Iso-Footcandle Lines of Horizontal Illumination

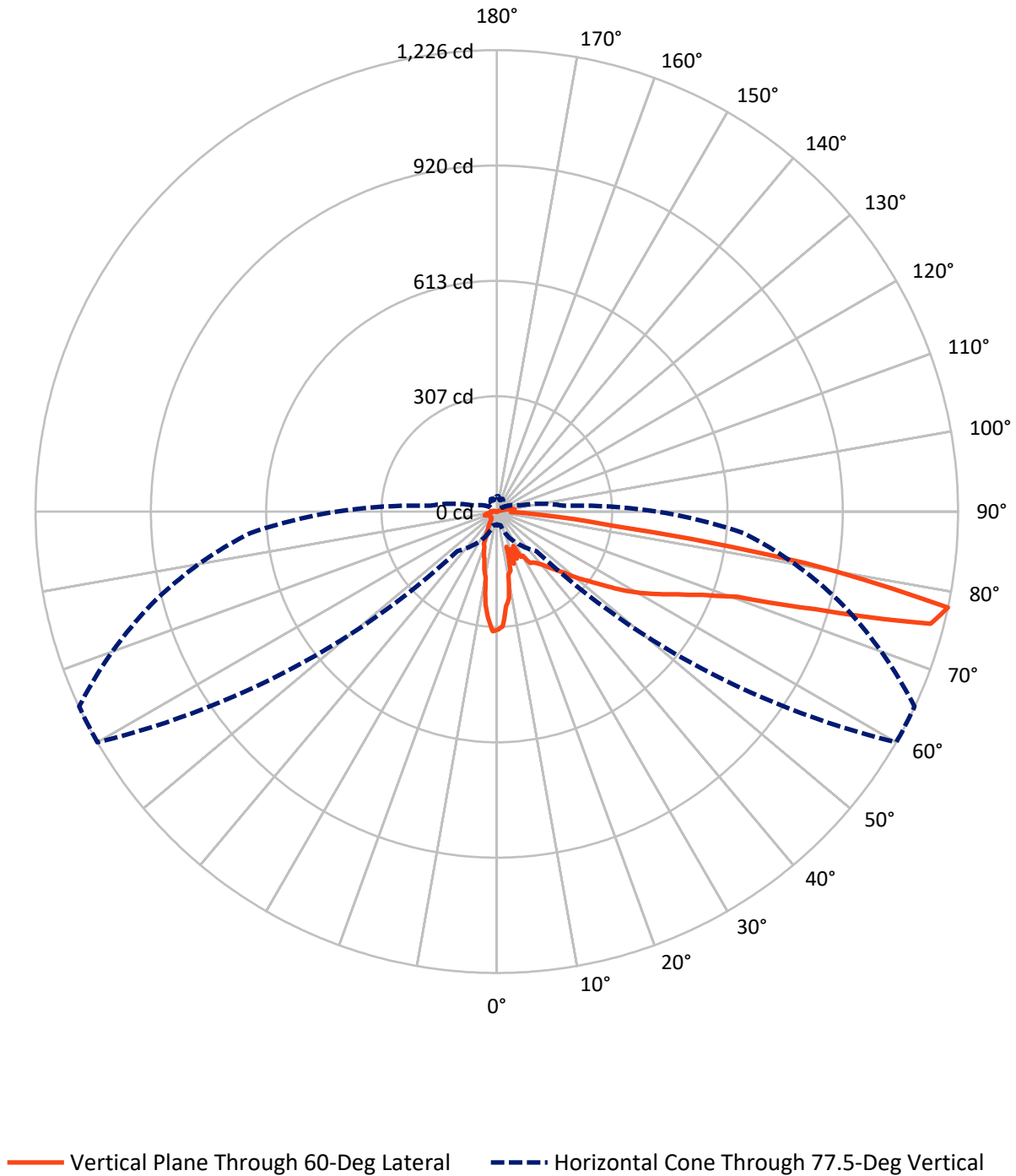
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Long - N/A

REPORT NUMBER: G3-2106-280-13
CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

Luminous Intensity Polar Plot



REPORT NUMBER: G3-2106-280-13

CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

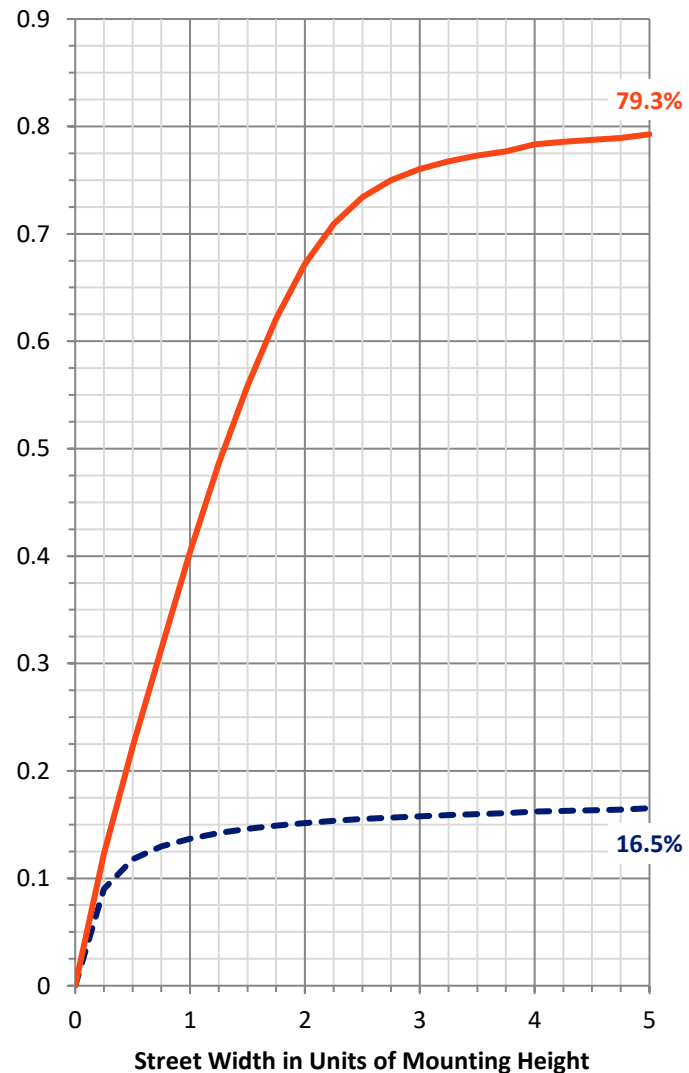
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	205.5	15.4	220.9
	% Fixture	17.4	1.3	18.7
Street Side	Lumens	943.1	14.8	957.9
	% Fixture	80.0	1.3	81.3
Total	Lumens	1148.7	30.2	1178.9
	% Fixture	97.4	2.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	2.0
10°-20°	40.6	3.4
20°-30°	51.7	4.4
30°-40°	84.0	7.1
40°-50°	134.5	11.4
50°-60°	211.6	18.0
60°-70°	267.0	22.7
70°-80°	276.4	23.4
80°-90°	59.3	5.0
90°-100°	21.9	1.9
100°-110°	4.4	0.4
110°-120°	1.3	0.1
120°-130°	1.3	0.1
130°-140°	0.7	0.1
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1148.7	97.4
0°-180°	1178.9	100.0



REPORT NUMBER: G3-2106-280-13

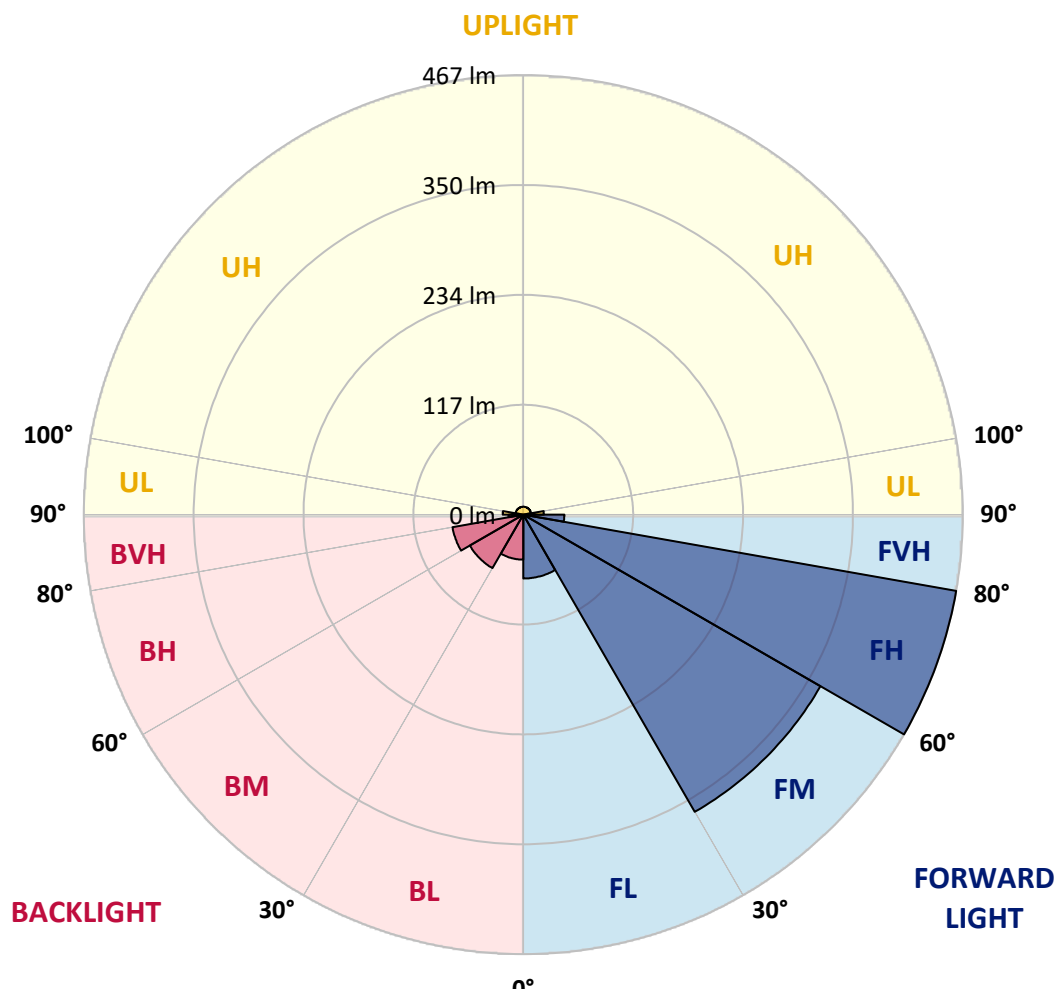
CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.9	5.8			
FM	(30°-60°)	364.6	30.9			
FH	(60°-80°)	467.0	39.6			G0/660
FVH	(80°-90°)	43.6	3.7			G1/100
BL	(0°-30°)	47.9	4.1	B0/110		
BM	(30°-60°)	65.6	5.6	B0/220		
BH	(60°-80°)	76.4	6.5	B0/110		G0/110
BVH	(80°-90°)	15.7	1.3			G1/100
UL	(90°-100°)	21.9	1.9		U2/50	
UH	(100°-180°)	8.4	0.7		U1/10	

BUG Rating: B0-U2-G1

Type IV Long



REPORT NUMBER: G3-2106-280-13

CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	314	314	314	314	314	314	314	314	314	314	314
2.5°	268	286	285	292	294	299	303	305	306	309	311
5°	232	231	231	235	236	240	243	254	285	294	301
7.5°	180	206	211	215	221	225	228	233	233	277	258
10°	192	192	192	198	195	209	169	170	172	178	216
12.5°	150	150	178	187	179	160	154	161	165	167	180
15°	170	169	172	175	129	154	126	97	150	170	204
17.5°	133	131	146	153	143	102	140	146	132	145	137
20°	154	153	155	125	130	143	137	107	127	165	201
22.5°	129	128	126	138	128	134	135	136	148	124	141
25°	158	157	156	128	129	119	135	101	128	177	205
27.5°	164	162	130	134	125	130	118	136	143	180	242
30°	192	183	169	149	124	115	127	136	177	229	279
32.5°	263	245	213	160	134	138	137	163	182	231	283
35°	296	277	250	195	146	147	147	166	186	244	290
37.5°	298	291	280	224	173	168	155	174	196	252	298
40°	306	306	309	251	199	185	171	185	211	267	315
42.5°	319	320	332	288	230	209	187	202	229	289	338
45°	332	333	349	314	258	236	210	221	248	320	363
47.5°	354	356	370	340	285	265	235	244	274	358	399
50°	413	414	402	368	313	296	265	277	300	393	437
52.5°	488	466	433	386	339	328	299	307	328	435	482
55°	508	500	453	393	357	362	337	346	363	470	520
57.5°	510	502	456	394	363	391	377	393	400	496	555
60°	486	487	460	408	369	419	424	439	448	522	586
62.5°	419	419	433	422	383	446	467	483	491	552	612
65°	312	319	360	407	407	477	513	530	534	581	637
67.5°	199	190	231	346	404	560	568	590	589	610	669
70°	112	113	123	186	329	613	694	678	649	649	723
72.5°	87	90	97	109	175	579	906	886	755	742	814
75°	56	60	71	98	115	338	1010	1191	1084	889	839
77.5°	34	36	37	75	108	148	860	1226	1225	950	659
80°	24	24	25	35	98	139	454	833	808	499	202
82.5°	15	16	18	20	49	137	185	314	241	101	71
85°	7	8	10	11	16	134	149	129	103	54	56
87.5°	3	3	2	2	5	24	35	37	30	34	49
90°	3	2	1	2	4	23	37	39	32	34	52
92.5°	3	2	1	1	3	24	43	42	35	37	54
95°	3	3	1	1	4	24	54	46	34	38	55
97.5°	3	3	1	1	4	16	60	48	29	21	30
100°	2	3	1	1	3	8	42	38	19	3	4
102.5°	2	3	1	1	2	4	19	22	16	2	3
105°	3	3	1	1	1	2	7	9	6	2	3
107.5°	3	3	1	1	1	1	2	2	1	2	4



REPORT NUMBER: G3-2106-280-13

CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
112.5°	2	2	1	1	1	1	1	1	1	1	3
115°	1	1	0	1	0	1	1	1	1	2	3
117.5°	1	1	0	0	0	0	0	1	1	2	5
120°	1	1	0	0	0	0	0	0	1	2	6
122.5°	1	1	0	0	0	0	0	1	1	2	6
125°	1	1	1	0	0	0	0	1	1	2	5
127.5°	1	1	1	0	0	0	1	1	1	2	5
130°	1	1	1	0	0	0	1	1	1	2	3
132.5°	1	1	1	0	0	0	0	1	1	2	3
135°	1	1	1	0	1	0	1	0	0	1	2
137.5°	1	1	1	0	1	0	1	1	0	0	1
140°	0	0	0	0	0	0	1	1	0	0	1
142.5°	0	0	0	0	0	0	1	1	1	0	1
145°	0	0	0	0	1	1	1	1	1	1	1
147.5°	0	0	1	1	1	1	1	1	1	1	1
150°	1	1	1	1	1	1	1	1	1	1	1
152.5°	2	2	2	1	1	0	1	1	1	1	1
155°	1	1	1	1	0	0	0	1	1	1	2
157.5°	1	1	0	0	0	0	0	0	0	1	1
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: G3-2106-280-13

CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	314	314	314	314	314	314	314	314	314	314	314
2.5°	312	315	315	318	318	320	318	317	318	306	303
5°	303	306	308	308	264	260	259	258	255	256	258
7.5°	260	262	294	250	245	244	238	235	230	212	227
10°	220	222	189	182	175	216	199	198	196	194	197
12.5°	170	175	176	168	150	147	163	166	160	141	131
15°	207	208	177	149	114	124	102	118	113	111	108
17.5°	146	144	150	119	115	72	84	79	78	69	68
20°	202	199	153	106	91	80	60	51	66	71	72
22.5°	140	132	113	108	76	57	43	49	52	55	57
25°	200	184	131	72	59	37	37	37	52	64	66
27.5°	244	212	123	67	35	30	28	33	34	40	40
30°	260	228	140	59	26	21	23	26	33	35	35
32.5°	258	222	124	47	22	20	20	24	29	36	37
35°	258	219	106	34	21	18	19	24	29	32	33
37.5°	262	216	91	28	20	18	19	22	27	35	36
40°	275	219	72	25	19	17	18	24	29	30	31
42.5°	291	226	60	26	19	17	17	22	26	35	34
45°	311	233	48	25	19	16	16	22	25	39	38
47.5°	338	246	43	25	19	15	17	21	24	47	46
50°	372	264	40	24	18	14	18	20	27	47	45
52.5°	408	288	41	25	18	13	19	24	29	42	40
55°	446	311	41	26	18	14	21	22	23	30	29
57.5°	478	335	41	26	18	16	20	21	21	27	28
60°	508	356	42	25	18	15	20	24	22	32	32
62.5°	534	372	46	25	17	15	20	26	24	30	33
65°	565	398	55	25	17	15	19	28	26	31	31
67.5°	609	443	64	30	17	16	21	30	27	32	32
70°	674	500	70	38	19	17	23	31	28	34	34
72.5°	730	504	73	44	21	18	25	33	29	39	39
75°	679	383	72	45	21	18	26	35	29	39	39
77.5°	426	178	63	39	19	19	28	37	31	41	41
80°	127	84	44	28	17	20	30	38	32	45	45
82.5°	68	52	23	17	15	20	33	38	32	48	50
85°	48	35	14	12	13	20	32	36	32	46	48
87.5°	41	27	7	7	11	20	32	35	31	44	46
90°	45	29	8	8	16	26	35	35	32	41	43
92.5°	47	32	9	9	23	30	35	33	30	35	36
95°	50	35	10	10	22	25	29	27	21	22	24
97.5°	28	20	10	11	15	12	16	16	13	9	10
100°	4	3	9	11	8	7	11	12	9	3	3
102.5°	3	3	7	11	6	4	8	9	7	1	1
105°	3	3	4	8	4	2	3	5	4	1	1
107.5°	4	3	2	4	2	1	1	1	1	1	1



REPORT NUMBER: G3-2106-280-13

CATALOG NUMBER: SDL-PA1-20-AMB-U-SL3-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	3	3	1	2	1	1	1	1	1	3	3
115°	4	3	1	1	1	1	1	0	1	3	3
117.5°	5	4	1	1	1	1	1	0	1	4	4
120°	6	5	1	1	1	1	1	0	1	3	4
122.5°	6	5	2	1	1	0	0	0	2	4	4
125°	5	4	2	1	1	1	0	1	2	4	4
127.5°	5	4	2	1	1	1	0	1	2	3	3
130°	4	3	2	1	1	1	0	1	2	3	3
132.5°	3	3	2	1	1	1	0	1	2	3	3
135°	2	2	1	1	1	0	0	0	1	2	2
137.5°	1	1	1	1	1	0	0	0	0	1	1
140°	1	1	1	1	1	0	0	0	0	1	1
142.5°	1	1	1	1	1	0	0	0	0	1	1
145°	1	1	1	1	1	0	0	0	0	1	1
147.5°	1	1	1	1	1	0	0	0	0	1	1
150°	1	1	1	1	1	0	0	0	1	1	1
152.5°	1	1	1	1	1	0	0	0	1	1	1
155°	2	2	1	1	0	0	0	0	1	1	1
157.5°	1	1	1	1	0	0	0	0	0	1	1
160°	1	1	1	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



Report Generated By 670245982



--- HS --- SS

u



110°	3	3	1	1	1	1	1	1	1	1	4
------	---	---	---	---	---	---	---	---	---	---	---



110°	3	3	1	2	1	1	1	1	1	2	2
------	---	---	---	---	---	---	---	---	---	---	---

(END OF REPORT)