

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: G3-2106-280-9

Luminaire Tested: **SDL-PA1-20-AMB-U-T4W-A**

Test Date: 6/28/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-9
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-T4W-A
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE IV
WIDE OPTICS AND CLEAR PANELS
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: 1161.6 lumens
Efficiency: N/A
Efficacy: 37.1 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: 0.9809
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.4
Test Distance: 24 FT

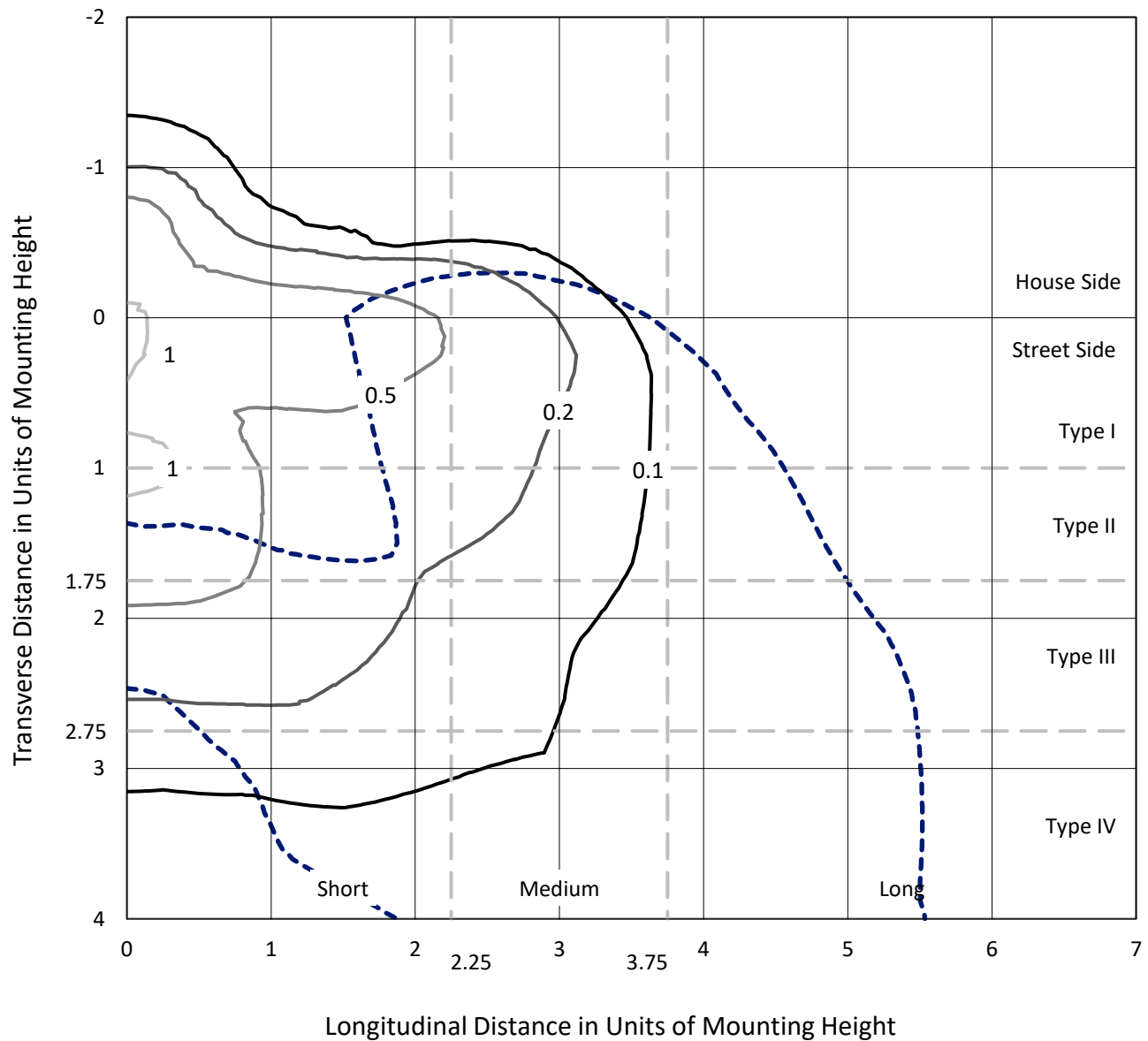


REPORT NUMBER: G3-2106-280-9

CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

Iso-Footcandle Lines of Horizontal Illumination

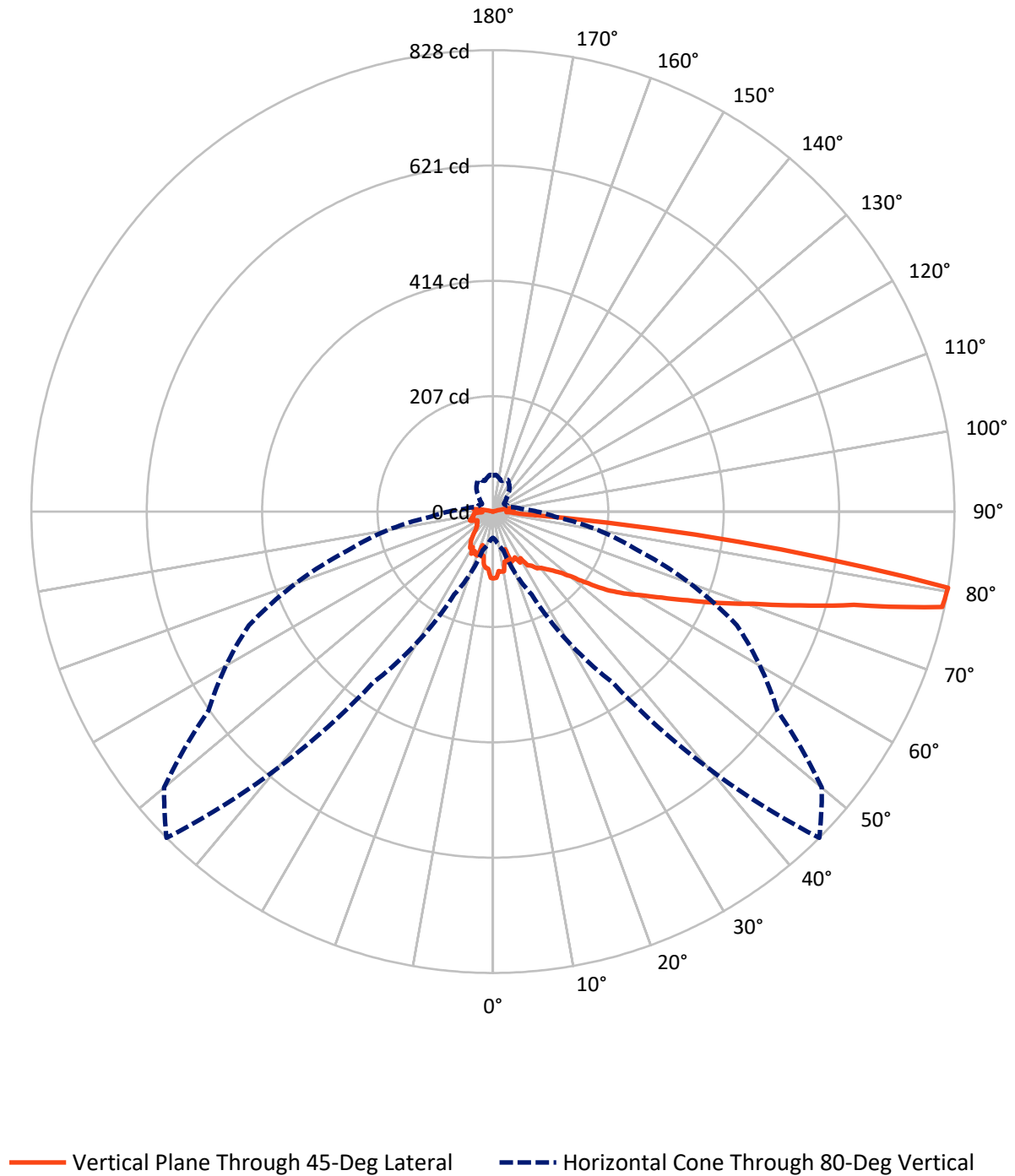
× Max cd
 --- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Long - N/A

REPORT NUMBER: G3-2106-280-9
CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

Luminous Intensity Polar Plot



REPORT NUMBER: G3-2106-280-9

CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

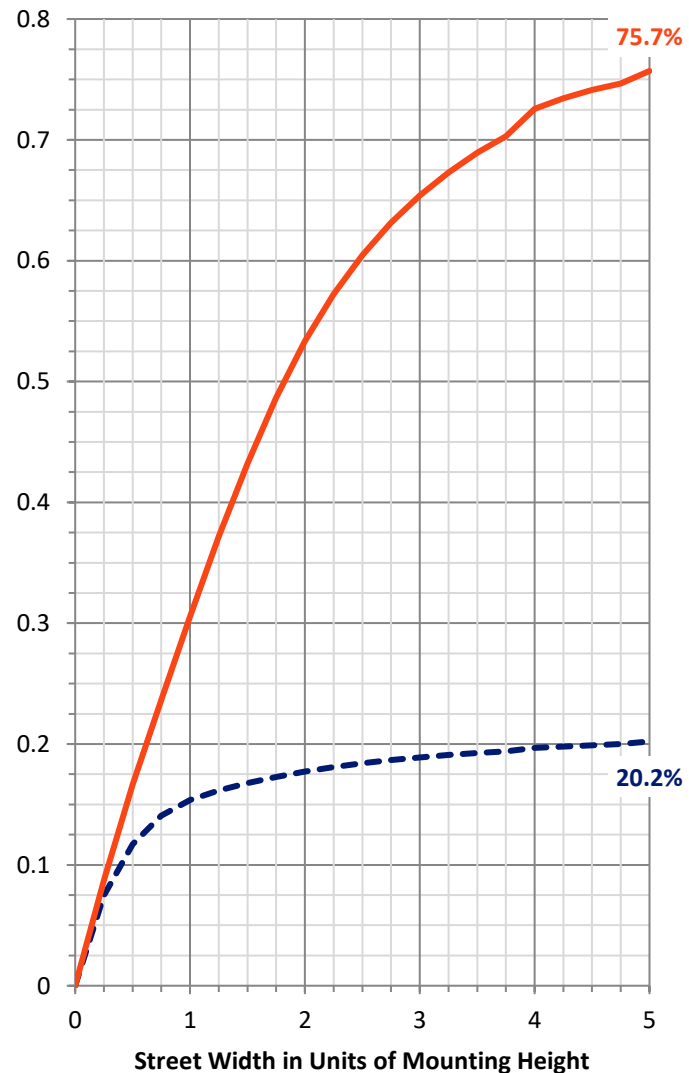
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	247.6	18.1	265.7
	% Fixture	21.3	1.6	22.9
Street Side	Lumens	881.3	14.6	895.8
	% Fixture	75.9	1.3	77.1
Total	Lumens	1128.9	32.7	1161.6
	% Fixture	97.2	2.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.9
10°-20°	25.7	2.2
20°-30°	45.2	3.9
30°-40°	77.1	6.6
40°-50°	114.3	9.8
50°-60°	185.9	16.0
60°-70°	295.7	25.5
70°-80°	303.5	26.1
80°-90°	71.4	6.2
90°-100°	25.5	2.2
100°-110°	5.0	0.4
110°-120°	0.8	0.1
120°-130°	0.8	0.1
130°-140°	0.3	0.0
140°-150°	0.1	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1128.9	97.2
0°-180°	1161.6	100.0



REPORT NUMBER: G3-2106-280-9

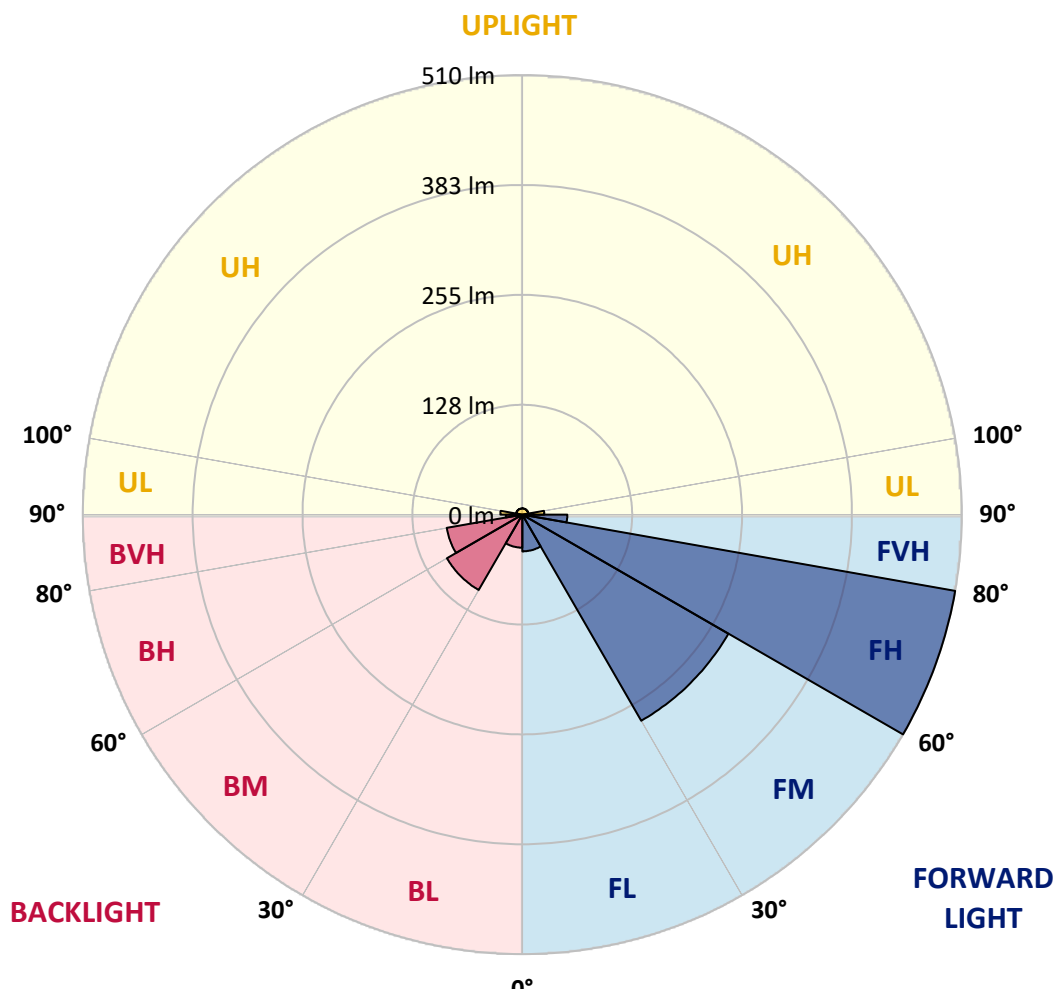
CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	42.6	3.7			
FM	(30°-60°)	276.3	23.8			
FH	(60°-80°)	510.1	43.9			G0/660
FVH	(80°-90°)	52.2	4.5			G1/100
BL	(0°-30°)	38.4	3.3	B0/110		
BM	(30°-60°)	101.0	8.7	B0/220		
BH	(60°-80°)	89.0	7.7	B0/110		G0/110
BVH	(80°-90°)	19.2	1.7			G1/100
UL	(90°-100°)	25.5	2.2		U2/50	
UH	(100°-180°)	7.2	0.6		U1/10	

BUG Rating: B0-U2-G1

Type IV Long



REPORT NUMBER: G3-2106-280-9

CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	120	120	120	120	120	120	120	120	120	120	120
2.5°	109	113	118	119	118	119	118	119	120	120	120
5°	112	110	110	109	107	107	105	106	116	116	117
7.5°	104	108	113	110	111	109	106	106	102	108	109
10°	122	120	118	116	107	109	93	87	83	81	90
12.5°	111	108	120	118	114	92	84	86	83	76	79
15°	127	126	123	118	84	94	87	77	78	82	88
17.5°	110	108	110	111	95	71	84	86	75	74	67
20°	130	129	128	96	95	96	80	86	74	85	91
22.5°	111	110	107	109	97	94	73	92	91	68	69
25°	129	128	129	103	104	91	87	95	81	99	102
27.5°	133	125	111	108	104	104	82	90	97	105	125
30°	139	137	136	119	102	97	93	100	118	137	148
32.5°	167	166	160	122	109	115	98	110	131	143	155
35°	175	172	169	137	112	119	112	118	138	153	164
37.5°	198	196	188	143	121	129	117	124	147	162	174
40°	238	235	227	161	128	133	121	131	157	173	188
42.5°	283	281	271	190	140	141	128	136	167	186	201
45°	317	315	313	224	160	151	139	144	177	203	217
47.5°	350	345	338	267	188	164	150	155	191	223	240
50°	374	370	359	300	222	184	165	171	206	249	270
52.5°	401	393	384	332	259	214	193	195	230	286	310
55°	426	420	416	372	290	248	221	220	267	324	355
57.5°	464	460	461	419	333	277	246	249	312	372	414
60°	501	496	500	474	373	304	270	282	363	429	499
62.5°	509	509	526	525	416	340	306	329	422	491	600
65°	465	469	534	539	466	384	352	385	493	553	710
67.5°	420	424	490	550	511	437	407	443	554	609	785
70°	383	384	446	548	537	495	472	499	606	637	797
72.5°	360	360	407	529	561	576	546	555	631	632	711
75°	344	346	389	518	599	669	634	599	642	586	516
77.5°	215	220	262	400	594	824	777	661	622	497	316
80°	47	51	72	164	375	828	770	623	483	269	114
82.5°	20	20	28	42	120	445	386	279	181	112	57
85°	10	10	13	19	44	48	61	89	78	58	44
87.5°	6	6	4	5	13	24	26	28	25	28	39
90°	6	6	4	5	14	26	29	32	29	31	45
92.5°	6	5	4	5	15	29	33	35	29	34	53
95°	5	5	3	4	17	34	37	39	31	37	58
97.5°	4	4	2	3	17	39	37	36	24	20	30
100°	3	3	2	2	8	38	31	27	14	3	2
102.5°	3	3	1	2	2	17	17	15	8	2	2
105°	3	3	1	1	1	3	4	6	4	1	2
107.5°	4	3	1	1	1	1	1	1	2	1	2



REPORT NUMBER: G3-2106-280-9

CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
112.5°	3	3	0	0	0	0	0	0	1	1	1
115°	2	2	0	0	0	0	0	0	1	1	2
117.5°	2	2	0	0	0	0	0	0	1	1	2
120°	2	2	0	0	0	0	0	0	0	1	3
122.5°	2	2	1	0	0	0	0	0	0	1	3
125°	2	2	1	0	0	0	0	0	1	1	3
127.5°	2	2	1	0	0	0	0	0	1	1	2
130°	2	2	1	0	0	0	0	0	1	1	2
132.5°	2	1	1	0	0	0	0	0	1	1	2
135°	1	1	0	0	0	0	0	0	0	1	1
137.5°	1	0	0	0	0	0	0	0	0	0	1
140°	0	0	0	0	0	0	0	0	0	0	1
142.5°	0	0	0	0	0	0	0	0	0	1	1
145°	0	0	0	0	0	0	0	0	0	0	1
147.5°	0	0	0	0	0	0	0	0	0	1	1
150°	1	1	1	1	0	0	0	1	1	1	1
152.5°	1	1	1	0	0	0	0	0	1	1	1
155°	1	1	0	0	0	0	0	0	0	1	1
157.5°	0	0	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: G3-2106-280-9

CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	120	120	120	120	120	120	120	120	120	120	120
2.5°	120	120	119	119	119	119	118	118	118	112	118
5°	117	117	116	115	104	103	102	103	104	104	104
7.5°	104	104	110	100	100	102	103	104	101	99	96
10°	90	90	79	79	81	97	96	102	106	108	108
12.5°	79	77	76	78	76	81	100	106	100	98	97
15°	88	88	79	75	68	83	76	102	106	110	110
17.5°	67	71	76	71	77	63	86	96	96	95	96
20°	91	90	82	65	73	84	79	90	108	112	113
22.5°	68	68	66	82	77	83	86	96	95	95	98
25°	100	99	91	72	81	78	88	94	112	115	117
27.5°	126	123	98	81	74	85	86	92	94	109	110
30°	147	147	125	97	75	73	83	96	111	114	114
32.5°	156	154	126	95	77	77	80	94	120	131	133
35°	164	163	127	91	70	71	72	94	119	124	126
37.5°	177	172	128	85	64	65	67	83	105	114	117
40°	192	185	129	78	58	57	58	72	86	90	90
42.5°	208	197	128	73	52	49	49	59	68	71	71
45°	228	212	127	68	48	43	44	54	59	58	57
47.5°	251	231	124	65	44	40	42	50	53	55	55
50°	282	255	121	59	42	37	42	47	50	50	50
52.5°	322	283	125	55	40	36	41	45	47	49	48
55°	375	315	125	50	39	35	39	43	43	44	45
57.5°	433	356	114	48	37	34	39	44	44	46	47
60°	513	408	96	46	33	32	39	48	47	52	52
62.5°	598	463	75	45	33	33	44	55	56	60	59
65°	672	506	63	44	32	37	51	62	58	59	59
67.5°	703	508	55	42	32	43	55	62	58	61	60
70°	680	465	50	40	32	44	55	61	58	64	63
72.5°	579	363	46	38	30	41	54	62	60	69	67
75°	383	192	42	36	28	38	52	63	60	69	68
77.5°	203	88	37	31	26	36	52	64	59	68	67
80°	79	52	31	27	24	35	52	63	57	66	65
82.5°	56	42	25	23	23	35	53	63	54	64	62
85°	43	35	18	17	21	33	49	56	47	55	54
87.5°	39	31	8	7	10	19	34	39	33	43	43
90°	45	35	8	7	11	20	36	40	36	45	45
92.5°	51	39	8	7	13	25	40	41	39	45	45
95°	55	40	9	8	17	30	44	41	35	36	36
97.5°	28	21	8	8	20	35	42	34	23	21	22
100°	2	2	8	8	9	25	35	24	14	7	7
102.5°	2	2	6	8	5	8	21	16	10	2	2
105°	2	2	3	6	3	2	6	8	6	1	1
107.5°	2	2	1	3	1	1	2	2	2	1	1



REPORT NUMBER: G3-2106-280-9

CATALOG NUMBER: SDL-PA1-20-AMB-U-T4W-A

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2	2	1	1	1	1	1	0	1	2	2
115°	2	2	1	1	0	0	0	0	1	2	2
117.5°	2	2	1	1	0	0	0	0	1	3	3
120°	3	3	1	0	0	0	0	0	1	3	3
122.5°	3	3	1	0	0	0	0	0	1	3	3
125°	3	3	1	1	0	0	0	0	1	3	3
127.5°	2	2	1	1	1	0	0	0	1	3	3
130°	2	2	1	1	0	0	0	0	1	2	2
132.5°	2	2	1	0	0	0	0	0	1	2	2
135°	1	1	1	0	0	0	0	0	1	1	2
137.5°	1	1	0	0	0	0	0	0	0	1	1
140°	1	0	0	0	0	0	0	0	0	0	0
142.5°	1	0	0	0	0	0	0	0	0	0	0
145°	1	0	0	0	0	0	0	0	0	0	0
147.5°	1	0	0	0	0	0	0	0	0	0	0
150°	1	0	0	0	0	0	0	0	1	1	1
152.5°	1	1	1	1	0	0	0	0	1	1	1
155°	1	1	1	0	0	0	0	0	0	1	1
157.5°	1	0	0	0	0	0	0	0	0	0	0
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 Generated By 670245982



--- HS --- SS



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110° | 3 3 0 0 0 0 0 0 1 1 2



110°	2	2	1	1	1	1	1	1	0	1	1
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(END OF REPORT)