

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: G3-2106-280-12

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

Test Date: 6/28/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-12
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
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE IV WIDE 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: 1260.7 lumens
Efficiency: N/A
Efficacy: 40.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U1 - 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): 24.3
Test Distance: 24 FT

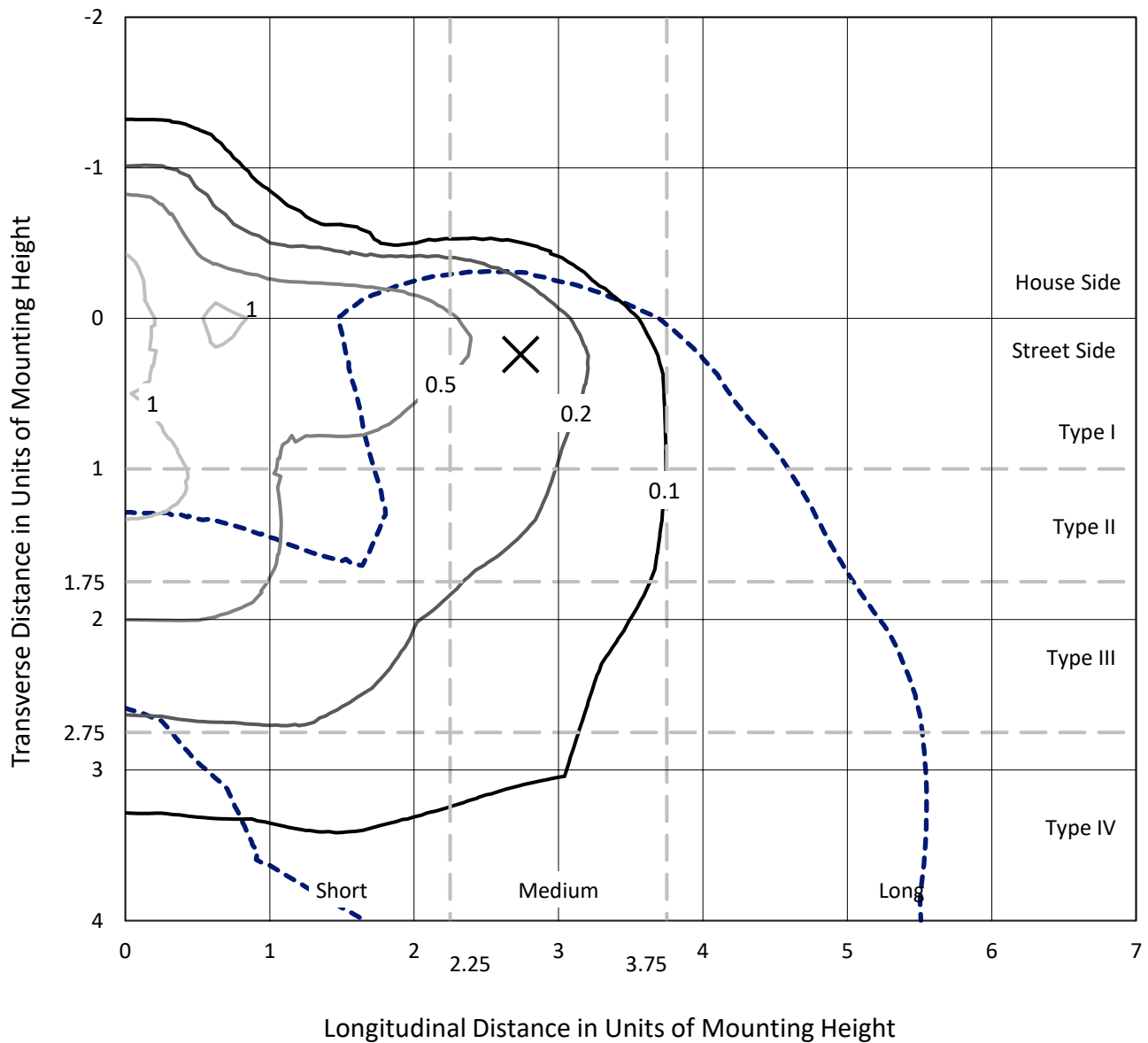


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Iso-Footcandle Lines of Horizontal Illumination

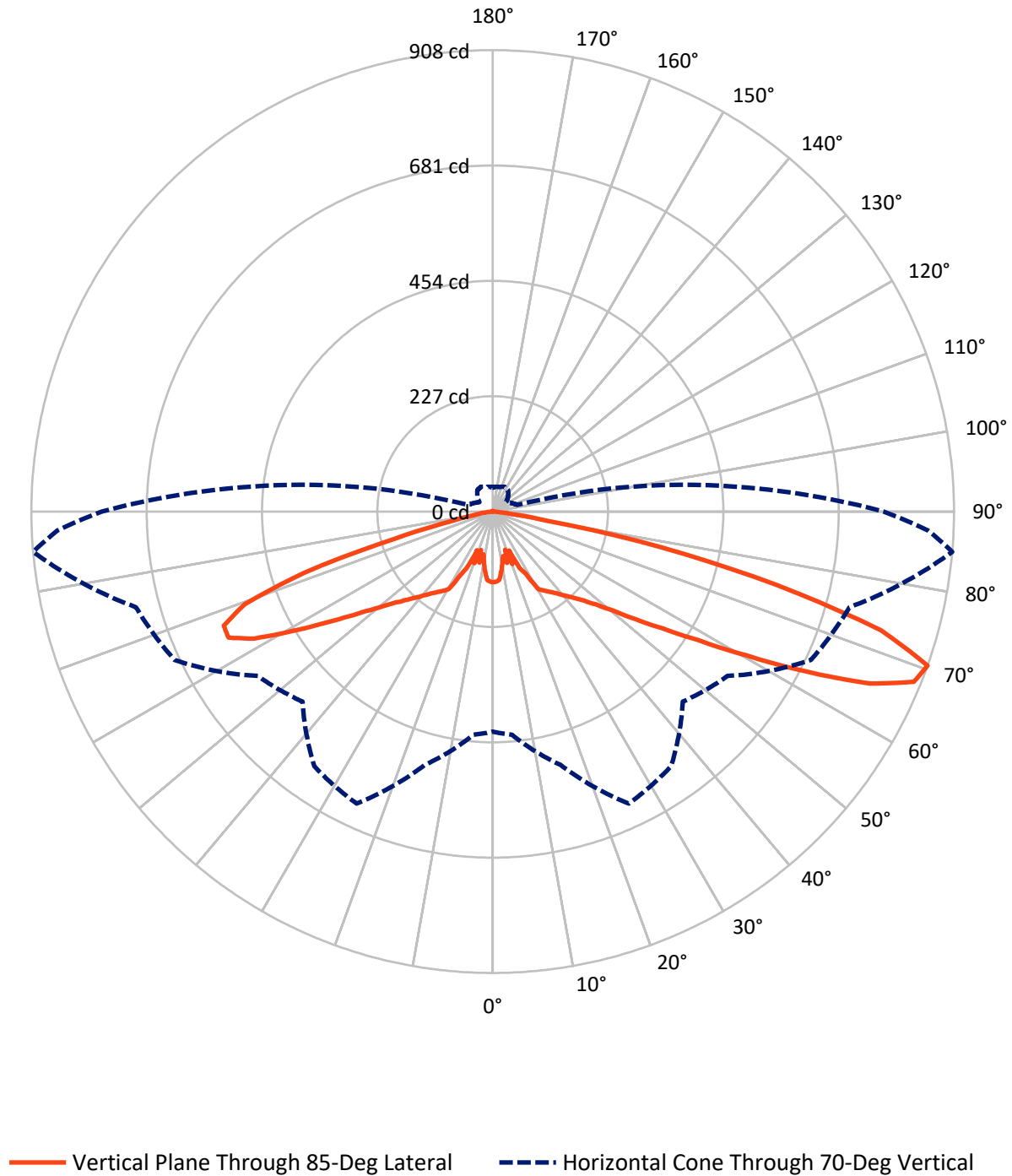
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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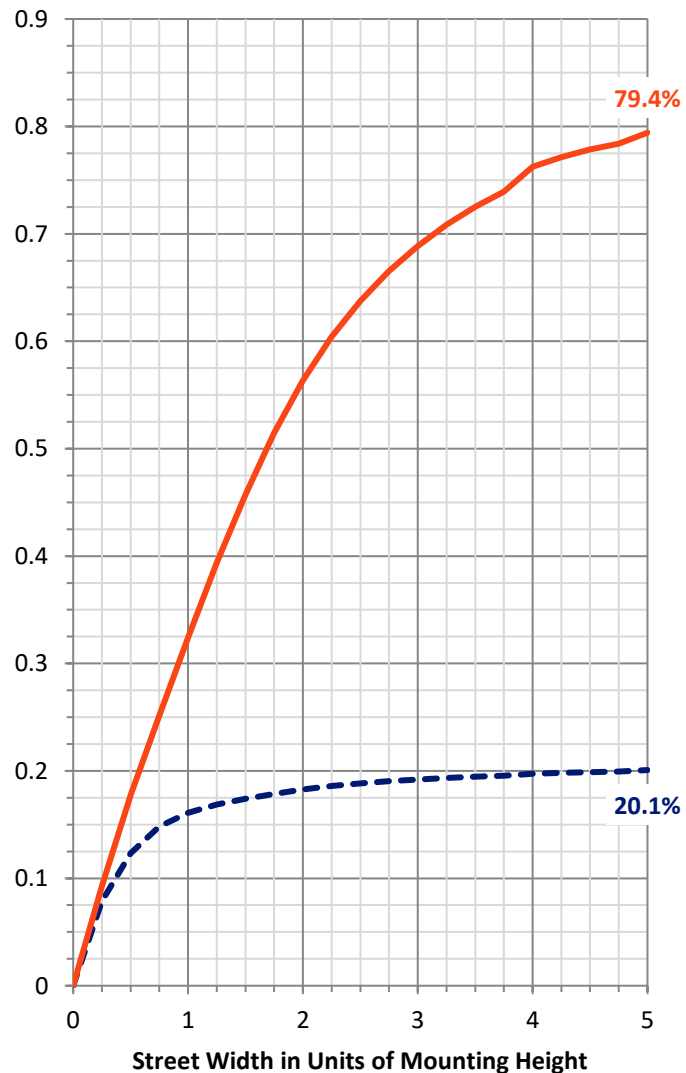
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	258.3	2.1	260.3
	% Fixture	20.5	0.2	20.6
Street Side	Lumens	998.9	1.5	1000.4
	% Fixture	79.2	0.1	79.4
Total	Lumens	1257.2	3.6	1260.7
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.9
10°-20°	30.0	2.4
20°-30°	53.2	4.2
30°-40°	90.6	7.2
40°-50°	131.2	10.4
50°-60°	212.6	16.9
60°-70°	335.2	26.6
70°-80°	334.3	26.5
80°-90°	58.3	4.6
90°-100°	1.2	0.1
100°-110°	0.9	0.1
110°-120°	0.5	0.0
120°-130°	0.3	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1257.2	99.7
0°-180°	1260.7	100.0



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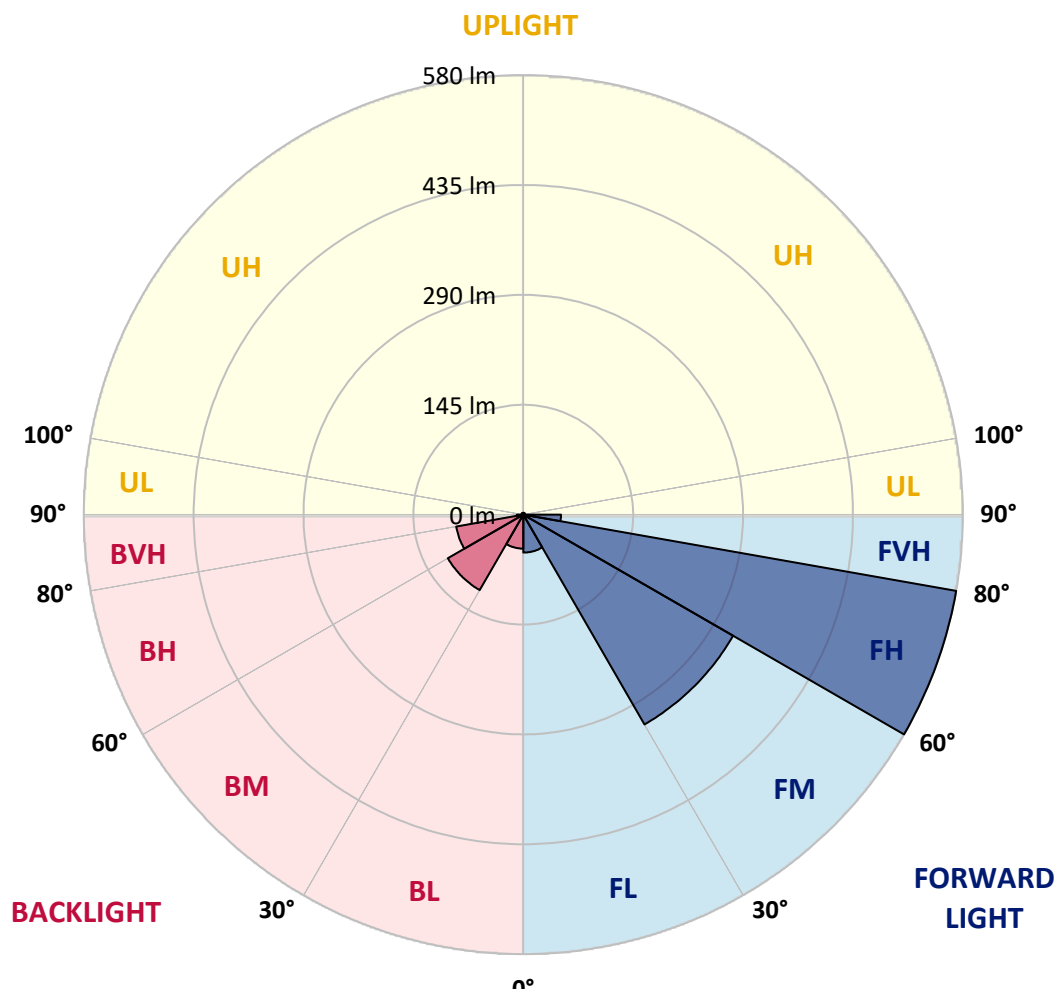
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	50.1	4.0			
FM	(30°-60°)	319.5	25.3			
FH	(60°-80°)	579.6	46.0			G0/660
FVH	(80°-90°)	49.7	3.9			G1/100
BL	(0°-30°)	44.9	3.6	B0/110		
BM	(30°-60°)	114.9	9.1	B0/220		
BH	(60°-80°)	89.9	7.1	B0/110		G0/110
BVH	(80°-90°)	8.6	0.7			G0/10
UL	(90°-100°)	1.2	0.1		U1/10	
UH	(100°-180°)	2.3	0.2		U1/10	

BUG Rating: B0-U1-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87.5°
0°	139	139	139	139	139	139	139	139	139	139	139
2.5°	125	134	134	137	136	137	137	138	138	138	138
5°	128	127	126	126	124	123	122	135	134	135	135
7.5°	119	121	128	127	128	126	122	118	128	120	121
10°	144	142	141	137	116	124	99	95	93	104	104
12.5°	125	124	141	140	133	109	97	95	90	90	88
15°	151	150	148	130	97	111	88	83	98	105	105
17.5°	128	127	131	131	114	85	103	90	87	79	79
20°	155	155	153	109	111	118	102	80	102	110	110
22.5°	131	130	127	131	109	118	95	110	81	83	82
25°	151	151	155	116	122	98	115	89	120	123	122
27.5°	140	133	131	130	115	127	108	115	126	138	138
30°	163	162	162	137	123	118	121	137	165	177	176
32.5°	196	195	183	144	128	137	132	158	171	185	185
35°	204	202	198	159	135	138	143	164	180	194	195
37.5°	227	224	217	165	142	144	145	174	192	204	206
40°	274	271	262	187	150	149	151	183	202	217	219
42.5°	324	322	313	218	167	154	161	193	215	231	237
45°	362	361	363	263	188	165	169	205	231	249	256
47.5°	397	394	389	307	219	181	182	217	255	273	281
50°	426	423	416	350	258	203	201	238	289	305	317
52.5°	457	453	443	385	300	233	226	265	325	352	363
55°	486	486	480	431	335	270	255	304	372	406	423
57.5°	535	534	534	490	386	302	288	353	428	478	507
60°	569	568	579	551	439	330	328	416	492	576	611
62.5°	581	585	608	604	485	366	374	486	564	694	730
65°	523	537	613	621	534	416	435	562	635	816	832
67.5°	475	487	565	632	577	469	497	636	699	894	877
70°	433	441	516	634	612	529	564	691	727	908	858
72.5°	406	411	465	610	635	617	630	719	718	800	732
75°	399	401	454	597	681	718	682	730	663	578	512
77.5°	235	245	314	460	673	905	746	704	562	339	279
80°	54	57	80	167	428	894	716	538	298	106	81
82.5°	18	19	30	43	130	495	285	194	107	34	34
85°	7	7	11	19	41	35	75	67	39	13	12
87.5°	1	1	1	1	1	1	2	2	2	1	1
90°	0	1	1	1	1	1	2	2	1	1	1
92.5°	0	0	0	1	1	1	2	2	1	1	1
95°	0	0	0	1	1	1	2	2	1	1	1
97.5°	0	0	0	1	1	1	2	2	1	1	1
100°	0	0	0	0	1	1	2	2	1	1	1
102.5°	0	0	0	0	0	1	2	1	1	1	1
105°	0	0	0	0	0	1	1	1	1	1	1
107.5°	0	0	0	0	0	0	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87.5°
112.5°	0	0	0	0	0	0	0	1	1	1	1
115°	0	0	0	0	0	0	0	0	1	1	1
117.5°	0	0	0	0	0	0	0	0	1	1	1
120°	0	0	0	0	0	0	0	0	1	1	1
122.5°	0	0	0	0	0	0	0	0	1	1	1
125°	0	0	0	0	0	0	0	0	1	1	1
127.5°	0	0	0	0	0	0	0	0	1	1	1
130°	0	0	0	0	0	0	0	1	1	1	1
132.5°	0	0	0	0	0	0	0	1	1	1	1
135°	0	0	0	0	0	0	0	1	1	1	1
137.5°	0	0	0	0	0	0	0	1	1	1	1
140°	0	0	0	0	0	0	0	1	1	1	1
142.5°	0	0	0	0	0	0	1	1	1	1	1
145°	0	0	0	0	0	0	1	1	1	1	1
147.5°	0	0	0	0	0	1	1	1	1	1	1
150°	0	0	0	0	0	0	1	1	1	1	1
152.5°	0	0	0	1	0	0	1	1	1	1	1
155°	1	1	1	0	0	0	0	1	1	1	1
157.5°	0	0	0	0	0	0	0	1	1	1	1
160°	0	0	0	0	0	0	0	1	1	1	1
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



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	139	139	139	139	139	139	139	139	139	139	139
2.5°	138	138	137	137	137	137	136	136	135	133	136
5°	135	135	134	133	120	118	118	119	119	120	120
7.5°	119	120	122	116	115	117	119	120	116	112	109
10°	104	103	91	90	92	107	110	121	124	127	127
12.5°	86	86	87	89	87	96	115	126	118	113	116
15°	105	104	92	78	78	99	90	117	126	130	132
17.5°	79	79	86	83	93	75	100	113	116	113	114
20°	109	108	98	74	87	101	93	102	129	134	135
22.5°	82	82	78	100	86	100	95	117	114	114	115
25°	121	120	110	80	97	88	104	105	133	137	139
27.5°	140	140	117	98	84	102	102	108	111	120	120
30°	176	175	150	107	90	88	96	113	132	135	137
32.5°	185	184	150	114	89	92	96	110	141	154	157
35°	195	192	149	108	85	82	87	110	140	147	148
37.5°	207	202	150	99	76	75	80	97	122	129	129
40°	222	214	150	92	68	65	68	82	96	99	100
42.5°	240	228	148	84	61	56	59	68	75	75	76
45°	261	244	144	77	56	50	52	59	63	59	58
47.5°	286	263	141	73	52	47	49	56	58	53	52
50°	323	288	137	66	49	44	46	53	53	49	48
52.5°	367	319	140	61	47	43	44	49	48	45	45
55°	427	359	141	56	44	41	42	46	46	44	44
57.5°	500	408	130	53	41	38	40	45	46	45	45
60°	591	466	109	50	38	36	40	47	49	50	50
62.5°	691	532	83	48	35	35	44	54	56	57	56
65°	773	576	66	45	34	39	51	59	56	54	54
67.5°	799	575	56	42	33	44	54	57	52	51	50
70°	770	521	50	40	32	43	52	54	50	49	47
72.5°	655	391	45	37	30	39	49	51	48	46	45
75°	439	201	40	34	27	35	44	49	45	43	42
77.5°	215	81	34	30	23	31	41	45	42	40	39
80°	61	35	27	24	20	29	39	42	38	36	34
82.5°	31	21	21	20	17	26	36	38	33	32	28
85°	11	9	12	14	14	21	26	26	20	18	16
87.5°	1	1	1	1	1	1	3	2	1	1	0
90°	1	1	1	1	1	1	2	2	1	1	0
92.5°	1	1	1	1	1	1	2	2	1	1	0
95°	1	1	1	1	1	1	2	2	1	1	1
97.5°	1	1	1	1	1	1	2	2	1	1	1
100°	1	1	1	1	1	1	2	2	1	1	1
102.5°	1	1	1	1	1	1	2	2	1	1	1
105°	1	1	1	1	1	1	2	1	1	1	1
107.5°	1	1	1	1	1	1	1	1	1	1	1



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1	1	1	1	1	1	1	1	1	1	1
115°	1	1	1	1	1	1	1	1	0	0	1
117.5°	1	1	1	1	1	0	0	0	0	0	0
120°	1	1	1	1	1	0	0	0	0	0	0
122.5°	1	1	1	1	1	0	0	0	0	0	0
125°	1	1	1	1	1	0	0	0	0	0	0
127.5°	1	1	1	1	1	0	0	0	0	0	0
130°	1	1	1	1	0	0	0	0	0	0	0
132.5°	1	1	1	1	0	0	0	0	0	0	0
135°	1	1	1	0	0	0	0	0	0	0	0
137.5°	1	1	1	0	0	0	0	0	0	0	0
140°	1	1	1	0	0	0	0	0	0	0	0
142.5°	1	1	1	0	0	0	0	0	0	0	0
145°	1	1	1	0	0	0	0	0	0	0	0
147.5°	1	1	1	0	0	0	0	0	0	0	0
150°	1	1	1	1	0	0	0	0	0	0	0
152.5°	1	1	1	1	0	0	0	0	0	0	0
155°	1	1	1	1	0	0	0	0	0	0	0
157.5°	1	1	1	0	0	0	0	0	0	0	0
160°	1	1	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



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