

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: G3-2106-280-11

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

Test Date: 6/28/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-11
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-HSS
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD
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: 954.8 lumens
Efficiency: N/A
Efficacy: 30.5 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: 0.9808
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.2
Test Distance: 24 FT

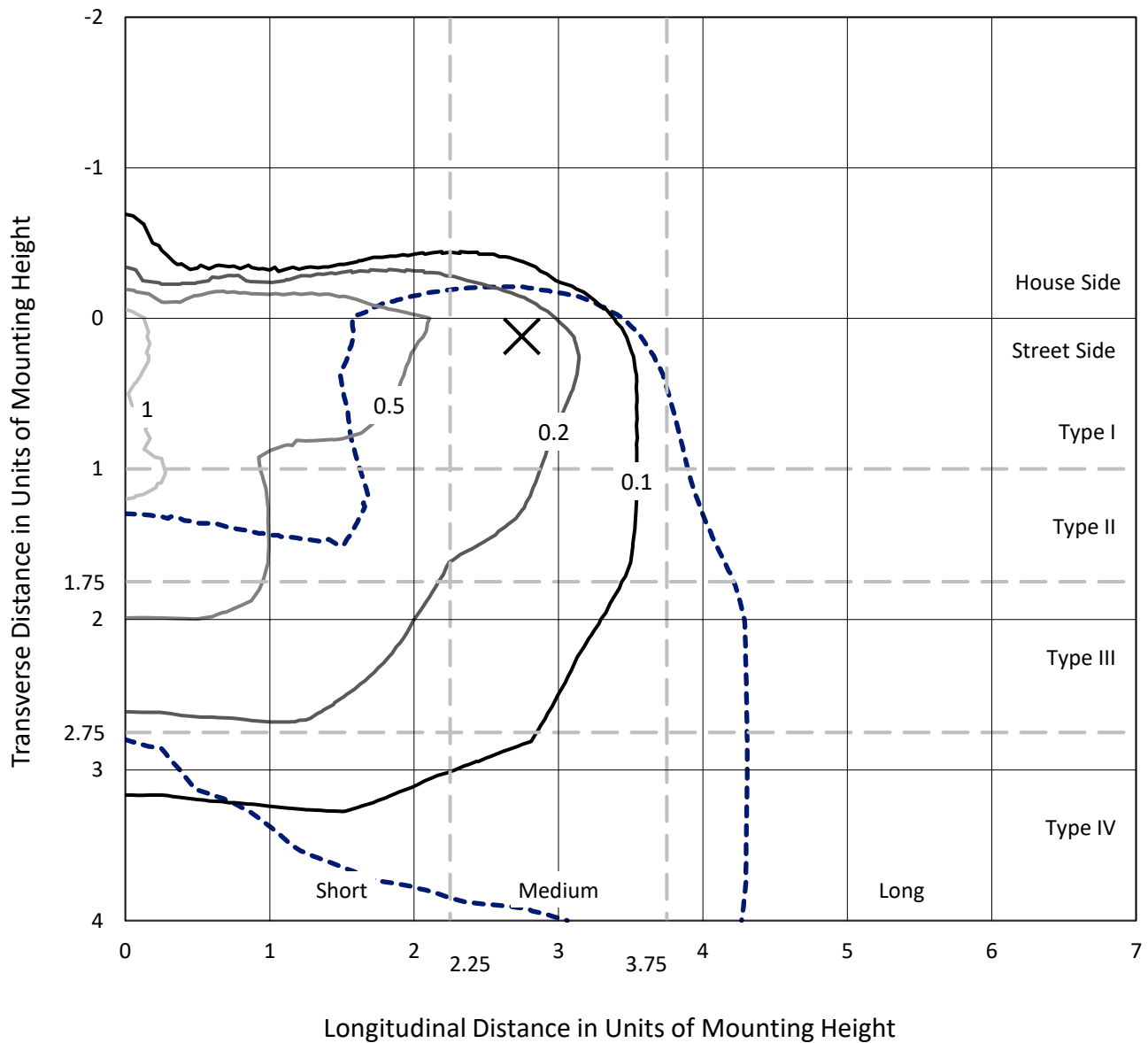


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Iso-Footcandle Lines of Horizontal Illumination

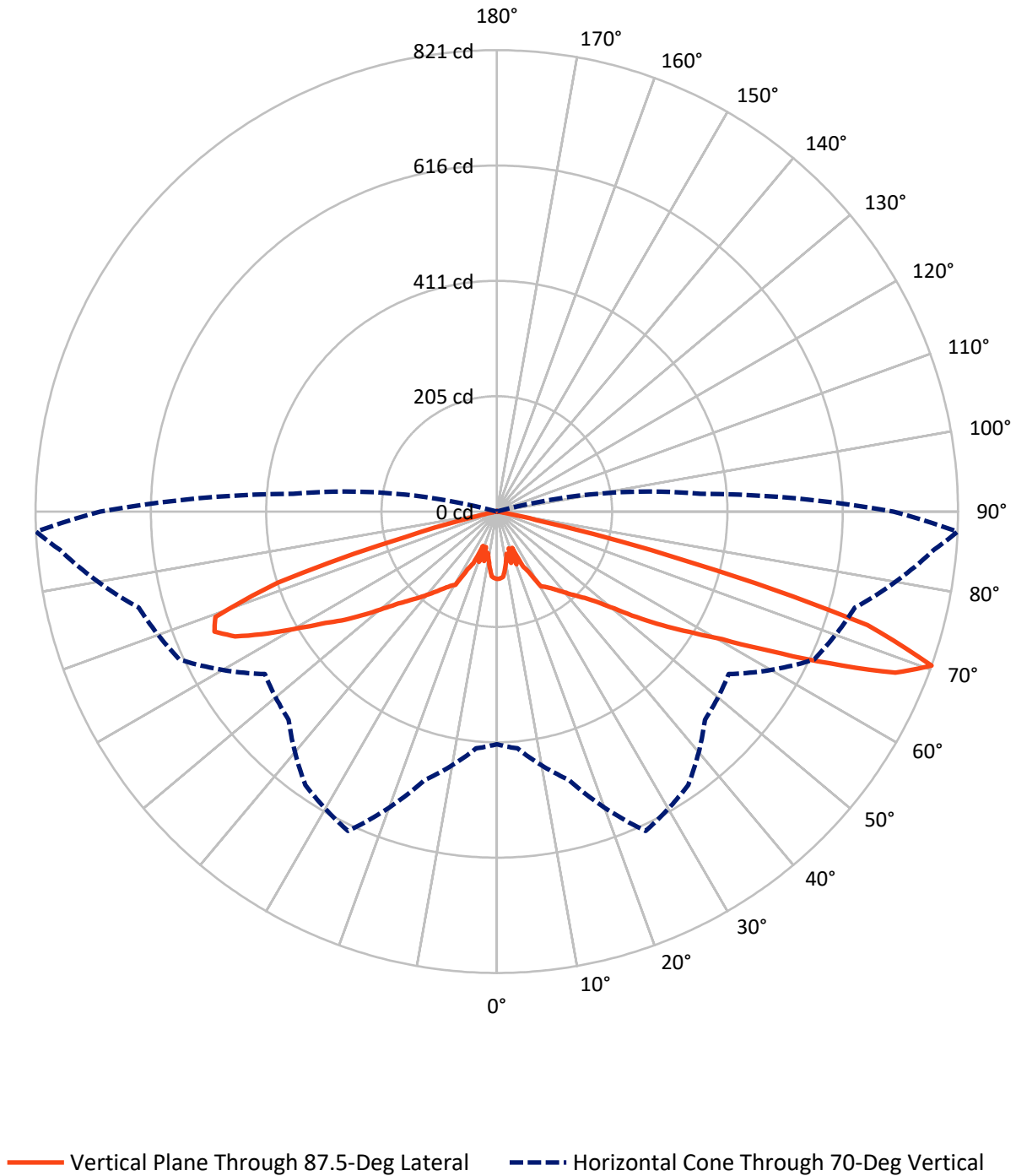
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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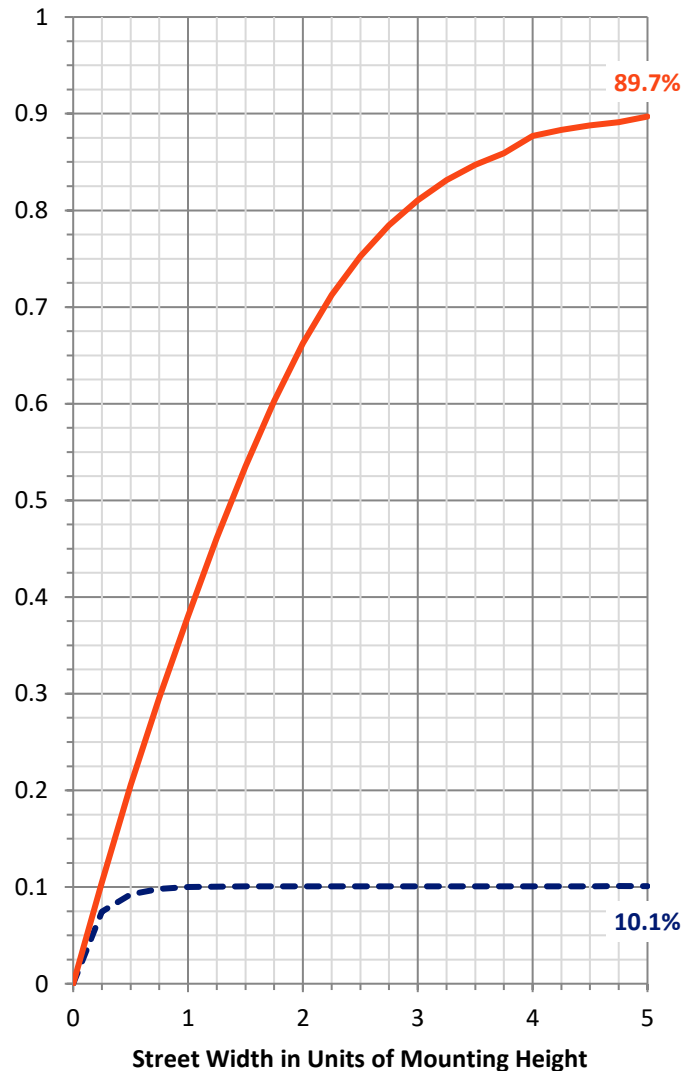
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	97.4	1.8	99.2
	% Fixture	10.2	0.2	10.4
Street Side	Lumens	854.5	1.1	855.6
	% Fixture	89.5	0.1	89.6
Total	Lumens	952.0	2.8	954.8
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	1.0
10°-20°	20.8	2.2
20°-30°	33.9	3.6
30°-40°	61.7	6.5
40°-50°	98.8	10.4
50°-60°	174.2	18.2
60°-70°	286.9	30.0
70°-80°	246.3	25.8
80°-90°	19.8	2.1
90°-100°	1.0	0.1
100°-110°	0.8	0.1
110°-120°	0.4	0.0
120°-130°	0.2	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	952.0	99.7
0°-180°	954.8	100.0



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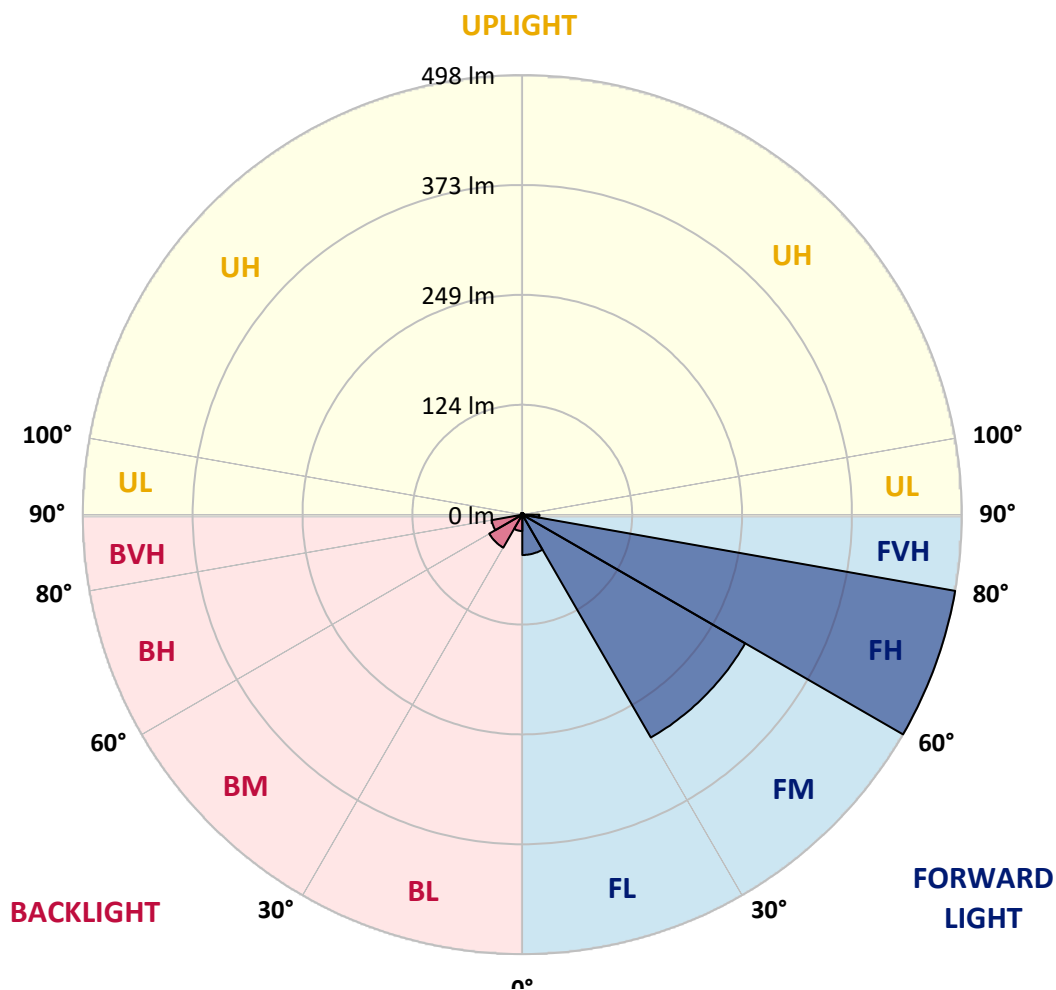
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	45.8	4.8			
FM	(30°-60°)	291.5	30.5			
FH	(60°-80°)	497.9	52.2			G0/660
FVH	(80°-90°)	19.3	2.0			G1/100
BL	(0°-30°)	18.5	1.9	B0/110		
BM	(30°-60°)	43.2	4.5	B0/220		
BH	(60°-80°)	35.3	3.7	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	1.0	0.1		U1/10	
UH	(100°-180°)	1.9	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°	120	120	120	120	120	120	120	120	120	120	120
2.5°	109	114	116	122	121	121	121	121	121	119	119
5°	118	117	116	115	113	110	108	120	119	118	117
7.5°	106	107	118	117	118	115	112	106	109	107	104
10°	134	133	131	128	105	113	89	84	81	91	90
12.5°	113	113	126	130	118	100	85	87	76	76	77
15°	141	141	138	125	87	103	82	74	90	95	95
17.5°	116	117	116	120	107	70	96	83	81	70	69
20°	144	144	143	101	101	111	89	76	97	102	100
22.5°	120	119	116	122	102	112	86	103	72	71	70
25°	142	142	145	108	114	93	109	79	107	108	107
27.5°	145	125	119	114	107	123	96	105	113	120	122
30°	151	151	150	128	112	110	113	127	151	155	154
32.5°	185	184	170	134	121	128	125	149	157	161	160
35°	194	192	187	150	127	134	137	156	166	169	168
37.5°	206	204	200	160	136	143	141	165	179	178	178
40°	222	219	218	170	149	149	147	176	191	189	190
42.5°	254	253	250	185	159	159	158	188	203	203	204
45°	296	294	293	212	171	170	170	201	219	219	219
47.5°	345	339	325	249	187	182	185	216	246	239	240
50°	379	376	362	296	211	198	206	235	282	267	271
52.5°	415	413	396	334	250	220	229	265	319	312	312
55°	433	432	424	382	296	251	264	304	368	358	357
57.5°	463	469	466	432	344	288	300	357	424	403	404
60°	520	521	529	503	397	326	340	418	468	456	461
62.5°	561	566	590	576	458	363	382	470	517	529	545
65°	536	532	613	621	524	411	424	519	569	615	651
67.5°	477	479	563	642	577	458	459	571	623	703	765
70°	414	423	494	627	594	524	504	623	660	781	821
72.5°	373	377	459	580	579	599	567	664	661	734	690
75°	159	176	348	514	573	676	633	669	536	403	336
77.5°	70	72	115	321	471	708	605	482	248	97	71
80°	23	24	39	96	235	474	322	160	47	14	13
82.5°	6	7	14	31	74	144	85	47	21	7	6
85°	2	2	4	12	19	15	29	32	17	3	2
87.5°	1	1	1	1	1	1	2	1	1	1	1
90°	0	0	0	1	1	1	2	1	1	1	1
92.5°	0	0	0	0	1	1	2	1	1	1	1
95°	0	0	0	0	0	1	2	1	1	1	1
97.5°	0	0	0	0	0	1	1	1	1	1	1
100°	0	0	0	0	0	1	1	1	1	1	1
102.5°	0	0	0	0	0	1	1	1	1	1	1
105°	0	0	0	0	0	0	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	0	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	0	1	1
125°	0	0	0	0	0	0	0	0	0	1	1
127.5°	0	0	0	0	0	0	0	0	1	1	1
130°	0	0	0	0	0	0	0	0	1	1	1
132.5°	0	0	0	0	0	0	0	0	1	1	1
135°	0	0	0	0	0	0	0	0	1	1	1
137.5°	0	0	0	0	0	0	0	0	1	1	1
140°	0	0	0	0	0	0	0	0	1	1	1
142.5°	0	0	0	0	0	0	0	1	1	1	1
145°	0	0	0	0	0	0	0	1	1	1	1
147.5°	0	0	0	0	0	0	0	1	1	1	1
150°	0	0	0	0	0	0	0	1	1	1	1
152.5°	0	0	0	0	0	0	0	1	1	1	1
155°	0	0	0	0	0	0	0	1	1	1	1
157.5°	0	0	0	0	0	0	0	0	1	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

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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°	119	118	116	115	114	114	113	113	111	111	112
5°	116	115	111	109	93	89	86	86	85	86	86
7.5°	102	100	105	89	83	81	80	80	78	77	78
10°	88	86	70	63	61	69	60	64	62	62	63
12.5°	77	74	63	62	58	50	53	47	43	39	38
15°	93	89	70	52	42	43	28	22	22	24	25
17.5°	67	65	64	54	43	23	17	20	22	24	24
20°	97	93	74	41	31	15	16	15	18	22	22
22.5°	68	64	55	51	17	15	12	17	20	18	18
25°	104	99	80	31	15	12	16	14	18	21	21
27.5°	125	106	82	31	12	14	13	16	15	16	16
30°	152	147	101	23	12	12	14	13	17	19	19
32.5°	158	154	94	20	12	12	12	15	16	18	19
35°	167	164	85	15	12	11	11	13	17	19	19
37.5°	178	177	77	14	11	10	10	12	15	16	16
40°	191	190	62	13	10	10	9	10	12	12	13
42.5°	206	205	46	13	10	9	8	8	9	9	9
45°	222	220	31	12	9	8	7	6	6	6	6
47.5°	245	235	22	12	9	6	5	4	3	3	4
50°	276	254	16	11	9	5	4	2	2	2	3
52.5°	315	278	15	10	8	4	2	1	1	2	2
55°	359	303	15	9	7	3	1	1	1	1	1
57.5°	404	324	14	9	5	1	1	1	1	1	1
60°	469	345	12	7	3	1	0	1	1	0	0
62.5°	557	366	9	5	2	0	0	1	0	0	0
65°	649	383	6	3	1	0	0	1	0	0	0
67.5°	707	385	4	2	1	0	0	0	0	0	0
70°	706	364	3	2	1	0	0	0	0	0	0
72.5°	560	260	3	2	0	0	0	0	0	0	0
75°	268	69	2	1	0	0	0	0	0	0	0
77.5°	50	16	2	1	0	0	1	1	0	0	0
80°	11	4	1	1	0	0	1	1	0	0	0
82.5°	5	2	1	1	0	0	1	1	0	0	0
85°	2	1	1	1	1	0	1	1	0	0	0
87.5°	1	1	1	1	1	0	1	1	1	0	0
90°	1	1	1	1	1	0	2	1	1	0	0
92.5°	1	1	1	1	1	1	2	1	1	0	0
95°	1	1	1	1	1	1	2	2	1	1	0
97.5°	1	1	1	1	1	1	2	2	1	1	0
100°	1	1	1	1	1	1	2	2	1	1	1
102.5°	1	1	1	1	1	1	2	1	1	1	1
105°	1	1	1	1	1	1	1	1	1	0	1
107.5°	1	1	1	1	1	1	1	1	1	0	0



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1	1	1	1	1	1	1	1	0	0	0
115°	1	1	1	1	1	0	0	0	0	0	0
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	0	0	0	0	0	0	0
127.5°	1	1	1	1	0	0	0	0	0	0	0
130°	1	1	1	1	0	0	0	0	0	0	0
132.5°	1	1	1	0	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	0	0	0	0	0	0	0	0	0
142.5°	1	1	0	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	0	0	0	0	0	0	0	0
152.5°	1	1	1	0	0	0	0	0	0	0	0
155°	1	1	1	0	0	0	0	0	0	0	0
157.5°	1	1	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°	0	0	0	0	0	0	1	1	1	1	1
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110°	1	1	1	1	1	1	1	1	0	0	0
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(END OF REPORT)