

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: G3-2106-280-7

Luminaire Tested: **SDL-PA1-20-AMB-U-T3-HSS**

Test Date: 6/29/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-7
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/29/2021
Issue Date: 6/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-AMB-U-T3-HSS
Description: SDL, (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE III OPTICS, 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: 954.1 lumens
Efficiency: N/A
Efficacy: 30.4 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): 31.4
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

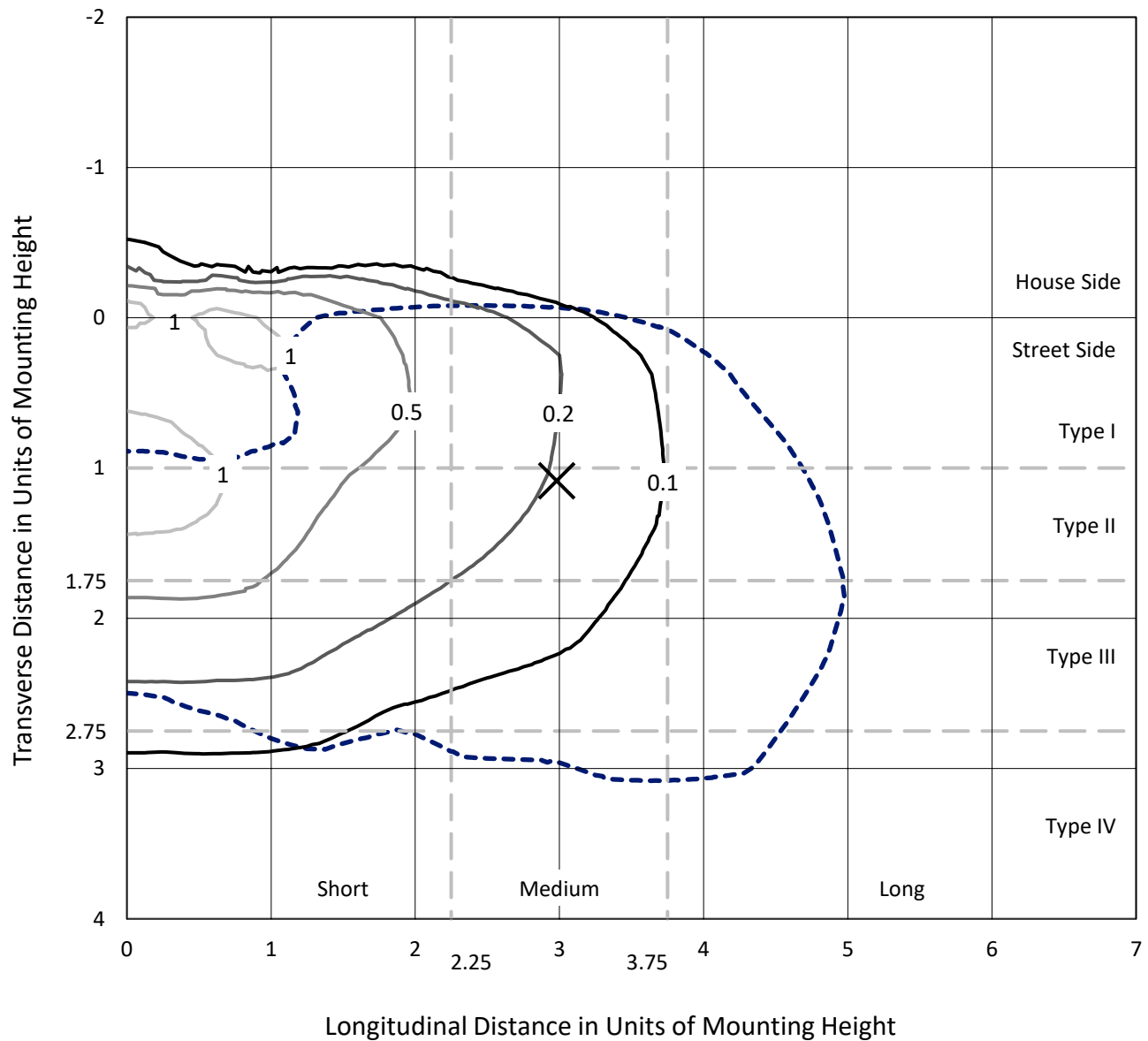


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Iso-Footcandle Lines of Horizontal Illumination

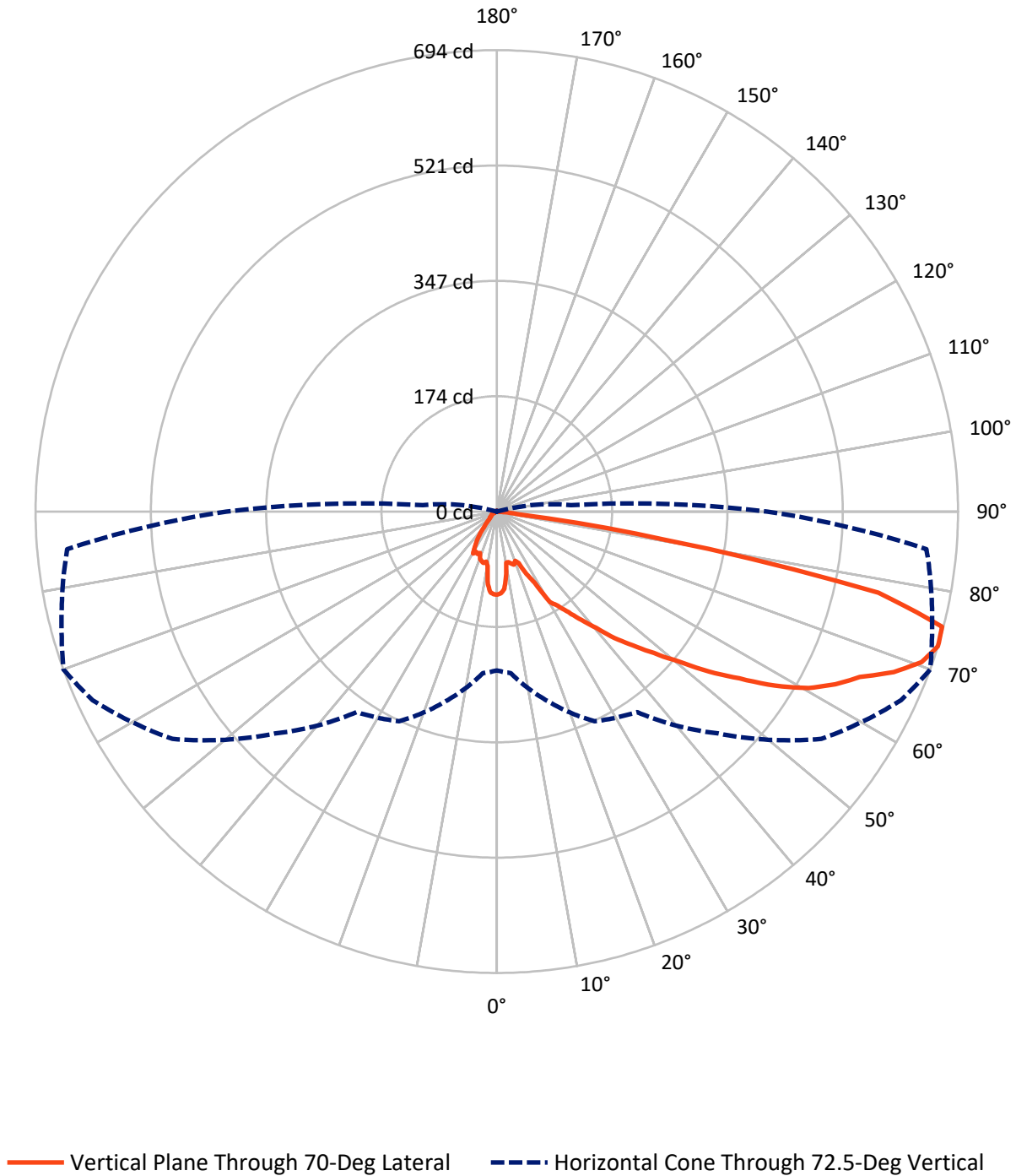
× Max cd
 --- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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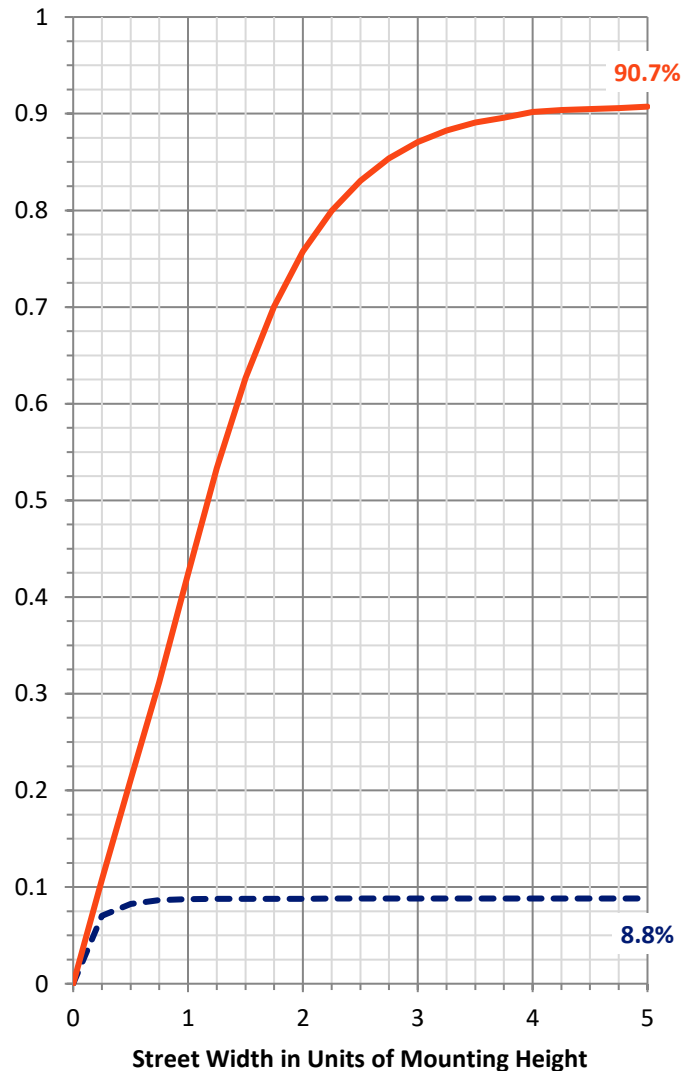
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	85.0	2.1	87.1
	% Fixture	8.9	0.2	9.1
Street Side	Lumens	866.0	1.0	867.0
	% Fixture	90.8	0.1	90.9
Total	Lumens	951.0	3.1	954.1
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	1.0
10°-20°	19.0	2.0
20°-30°	31.0	3.3
30°-40°	66.8	7.0
40°-50°	130.4	13.7
50°-60°	217.4	22.8
60°-70°	267.9	28.1
70°-80°	197.5	20.7
80°-90°	11.4	1.2
90°-100°	1.0	0.1
100°-110°	0.8	0.1
110°-120°	0.5	0.1
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°	951.0	99.7
0°-180°	954.1	100.0



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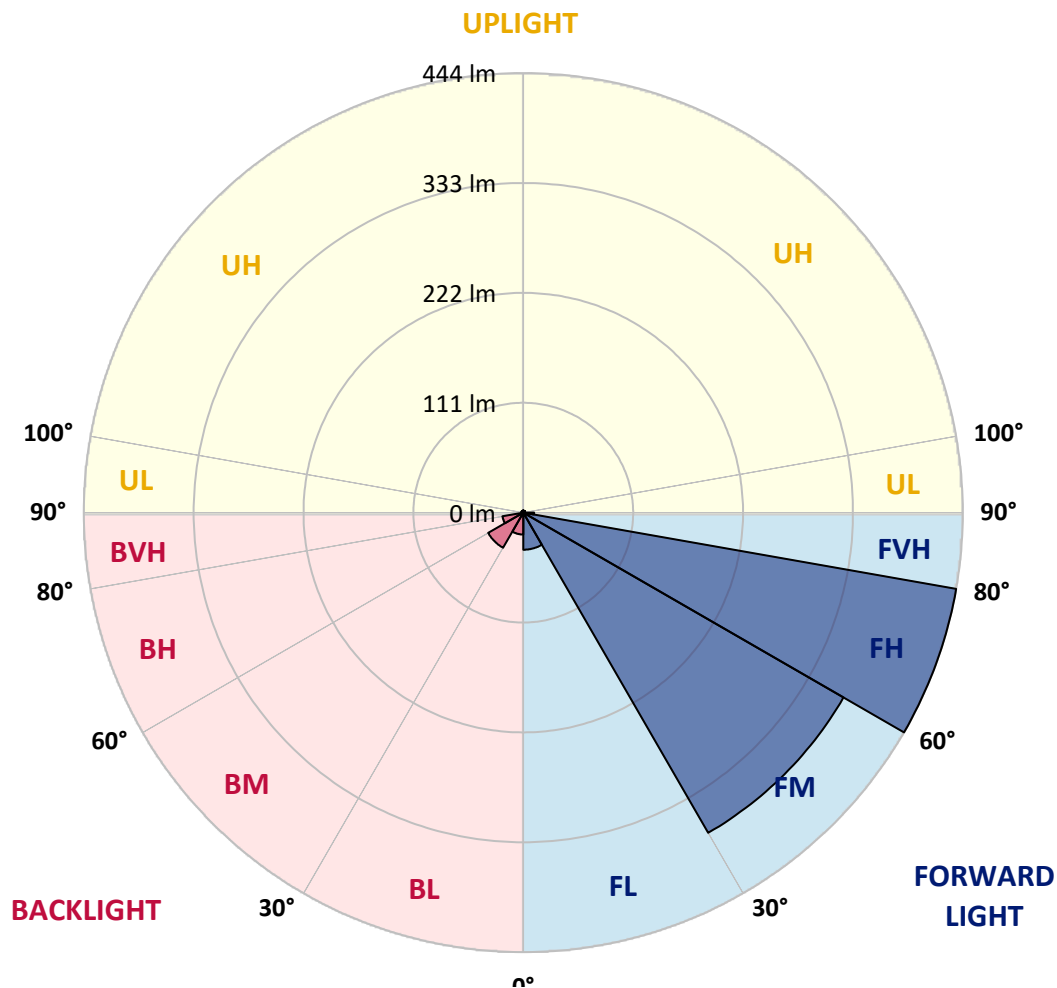
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	37.5	3.9			
FM	(30°-60°)	373.5	39.1			
FH	(60°-80°)	444.1	46.5			G0/660
FVH	(80°-90°)	10.9	1.1			G1/100
BL	(0°-30°)	22.1	2.3	B0/110		
BM	(30°-60°)	41.0	4.3	B0/220		
BH	(60°-80°)	21.4	2.2	B0/110		G0/110
BVH	(80°-90°)	0.5	0.1			G0/10
UL	(90°-100°)	1.0	0.1		U1/10	
UH	(100°-180°)	2.0	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°	70°	75°	85°
0°	125	125	125	125	125	125	125	125	125	125	125
2.5°	102	102	108	111	117	119	121	123	123	123	124
5°	95	95	96	96	98	99	100	110	117	120	122
7.5°	76	77	80	87	92	95	97	98	99	108	110
10°	91	90	90	91	83	81	75	77	78	79	97
12.5°	74	73	74	86	83	76	62	77	78	72	84
15°	90	89	89	87	60	76	67	66	81	86	104
17.5°	72	72	70	79	73	57	77	73	84	81	85
20°	88	87	86	69	62	80	73	67	79	99	117
22.5°	76	75	70	76	74	81	73	96	84	74	84
25°	85	85	87	71	79	75	87	82	104	115	130
27.5°	93	91	76	77	81	92	90	108	121	127	160
30°	111	109	103	91	82	86	104	134	158	176	192
32.5°	180	175	149	109	96	101	119	161	169	188	202
35°	227	228	207	154	110	108	134	174	186	205	213
37.5°	263	268	261	193	141	122	144	192	207	225	227
40°	305	306	298	229	176	143	154	209	230	250	245
42.5°	368	366	340	274	211	179	175	227	260	274	264
45°	443	436	408	328	251	216	201	255	287	305	288
47.5°	489	481	466	386	307	256	235	281	318	338	315
50°	536	527	511	445	368	317	274	308	354	381	347
52.5°	566	542	538	487	414	373	309	341	400	427	379
55°	539	540	550	522	456	404	353	385	443	469	405
57.5°	517	523	551	540	489	432	395	439	494	508	427
60°	495	503	545	559	515	460	438	494	539	537	453
62.5°	460	464	518	564	526	482	481	533	572	564	492
65°	411	414	467	542	523	499	511	572	600	596	545
67.5°	358	362	402	483	489	502	533	613	644	634	608
70°	315	316	347	417	430	496	566	654	678	663	650
72.5°	239	244	295	348	368	472	596	671	694	678	649
75°	54	56	151	238	302	431	613	668	692	661	521
77.5°	26	26	33	85	152	290	548	581	587	505	245
80°	11	11	13	23	45	67	261	276	258	179	44
82.5°	5	5	8	13	26	19	51	43	33	20	8
85°	1	1	3	5	5	5	10	14	12	8	3
87.5°	0	0	0	0	1	1	2	2	1	1	1
90°	0	0	0	0	1	1	2	2	2	1	1
92.5°	0	0	0	0	0	1	2	2	1	1	1
95°	0	0	0	0	0	1	2	2	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	0	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°	70°	75°	85°
112.5°	0	0	0	0	0	0	0	1	1	1	1
115°	0	0	0	0	0	0	0	0	0	1	1
117.5°	0	0	0	0	0	0	0	0	0	1	1
120°	0	0	0	0	0	0	0	0	0	0	1
122.5°	0	0	0	0	0	0	0	0	0	0	1
125°	0	0	0	0	0	0	0	0	0	0	1
127.5°	0	0	0	0	0	0	0	0	0	1	1
130°	0	0	0	0	0	0	0	0	0	1	1
132.5°	0	0	0	0	0	0	0	0	0	0	1
135°	0	0	0	0	0	0	0	0	0	0	1
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	1	0	1
145°	0	0	0	0	0	0	0	0	0	0	1
147.5°	0	0	0	0	0	0	1	1	1	1	1
150°	0	0	0	0	0	0	0	1	1	1	1
152.5°	0	0	0	0	0	0	1	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	0	1	1
160°	0	0	0	0	0	0	0	1	0	0	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	125	125	125	125	125	125	125	125	125	125	125
2.5°	124	124	124	125	124	124	124	125	125	125	125
5°	122	123	122	122	107	103	102	102	102	102	103
7.5°	110	111	116	104	101	100	99	100	99	98	100
10°	97	98	86	80	79	97	77	82	79	77	78
12.5°	86	86	73	81	77	66	64	58	50	46	44
15°	106	106	91	69	52	52	38	26	25	27	27
17.5°	79	78	83	73	53	26	20	22	24	22	21
20°	118	117	99	52	36	18	17	16	18	21	21
22.5°	84	83	72	62	20	17	13	18	19	16	16
25°	130	128	105	35	17	13	16	14	18	18	18
27.5°	159	141	102	34	14	15	13	15	14	13	13
30°	188	181	119	26	14	12	13	12	14	13	13
32.5°	196	187	104	20	13	12	11	12	11	11	11
35°	205	194	88	17	12	11	10	10	10	9	9
37.5°	217	203	69	15	11	9	8	7	7	6	7
40°	230	215	49	13	10	8	6	5	5	5	5
42.5°	247	229	34	12	9	6	4	4	4	4	4
45°	267	241	23	11	7	5	3	3	3	3	3
47.5°	290	250	18	10	6	3	2	2	2	2	2
50°	318	255	16	9	5	2	1	2	2	1	1
52.5°	345	255	14	8	4	2	1	1	1	1	1
55°	368	249	13	7	3	1	1	1	1	1	1
57.5°	388	238	12	6	2	1	1	1	1	1	1
60°	410	223	11	5	1	0	0	1	1	0	0
62.5°	436	210	9	4	1	0	0	1	0	0	0
65°	457	194	8	3	1	0	0	1	0	0	0
67.5°	460	171	6	2	1	0	0	0	0	0	0
70°	445	145	4	2	0	0	0	0	0	0	0
72.5°	407	112	3	1	0	0	0	1	0	0	0
75°	298	40	2	1	0	0	1	1	0	0	0
77.5°	115	14	2	1	0	0	1	1	0	0	0
80°	18	4	1	1	0	0	1	1	0	0	0
82.5°	5	2	1	1	1	0	1	1	1	0	0
85°	2	1	1	1	1	0	1	1	1	0	0
87.5°	1	1	1	1	1	0	2	1	1	0	0
90°	1	1	1	1	1	0	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	0
97.5°	1	1	1	1	1	1	2	2	1	1	1
100°	1	1	1	1	1	1	2	1	1	1	1
102.5°	1	1	1	1	1	1	1	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	1	1



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CATALOG NUMBER: SDL-PA1-20-AMB-U-T3-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	1	0	0
115°	1	1	1	1	1	1	0	1	0	0	0
117.5°	1	1	1	1	1	1	0	1	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	1	0	0	0	0	0	0
132.5°	1	1	1	1	1	0	0	0	0	0	0
135°	1	1	1	1	1	0	0	0	0	0	0
137.5°	1	1	1	1	0	0	0	0	0	0	0
140°	1	1	1	1	0	0	0	0	0	0	0
142.5°	1	1	1	1	0	0	0	0	0	0	0
145°	1	1	1	1	0	0	0	0	0	0	0
147.5°	1	1	1	1	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	1	0	0	0	0	0	0	0
160°	1	1	1	1	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	0
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(END OF REPORT)