

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: G3-2106-280-20

Luminaire Tested: **SDL-PA1-20-AMB-U-T2R**

Test Date: 6/26/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-20
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/26/2021
Issue Date: 6/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-AMB-U-T2R
Description: SDL. (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE II R 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: 1255.2 lumens
Efficiency: N/A
Efficacy: 40.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - 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): 24.5
Test Distance: 24 FT



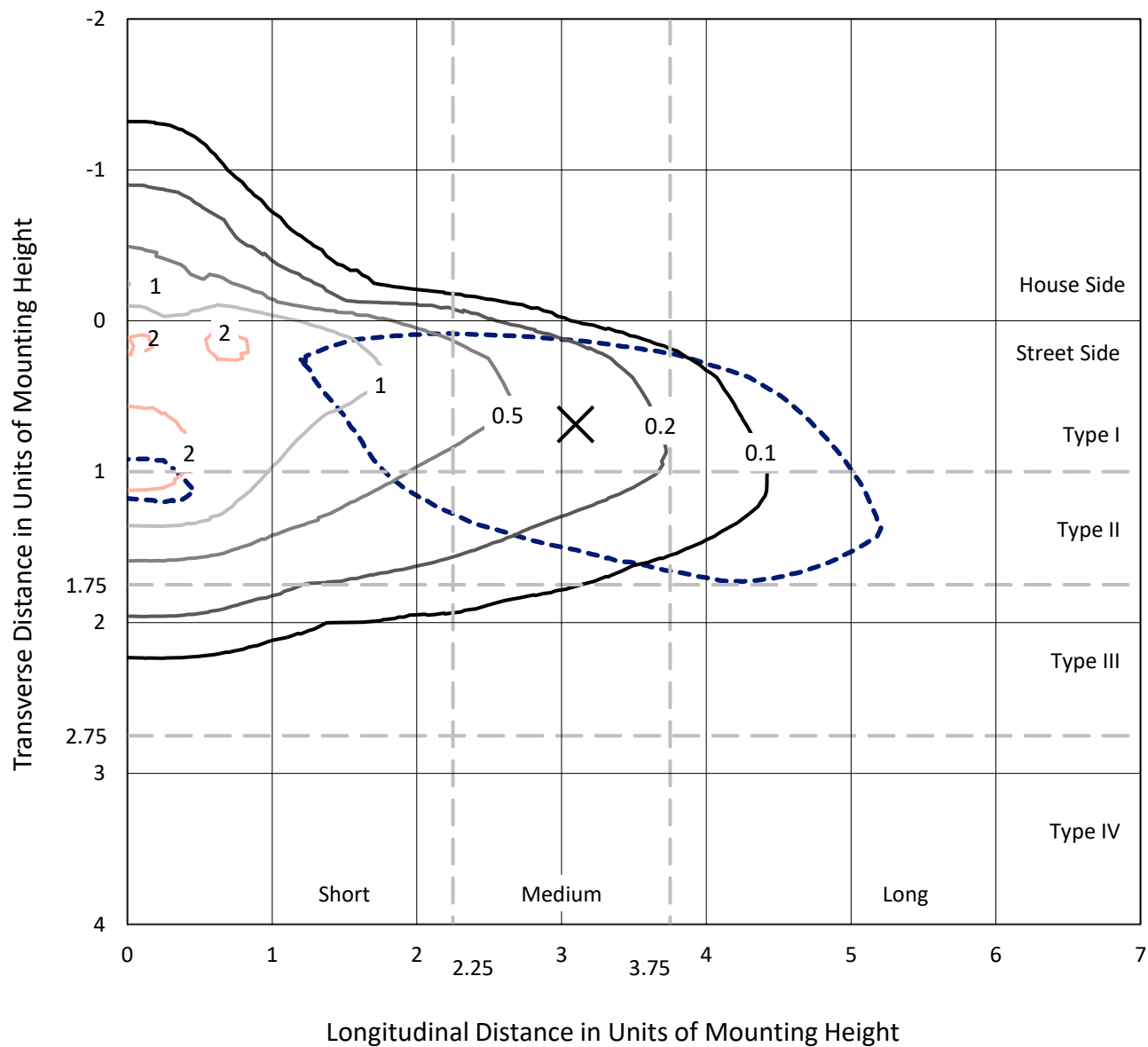
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

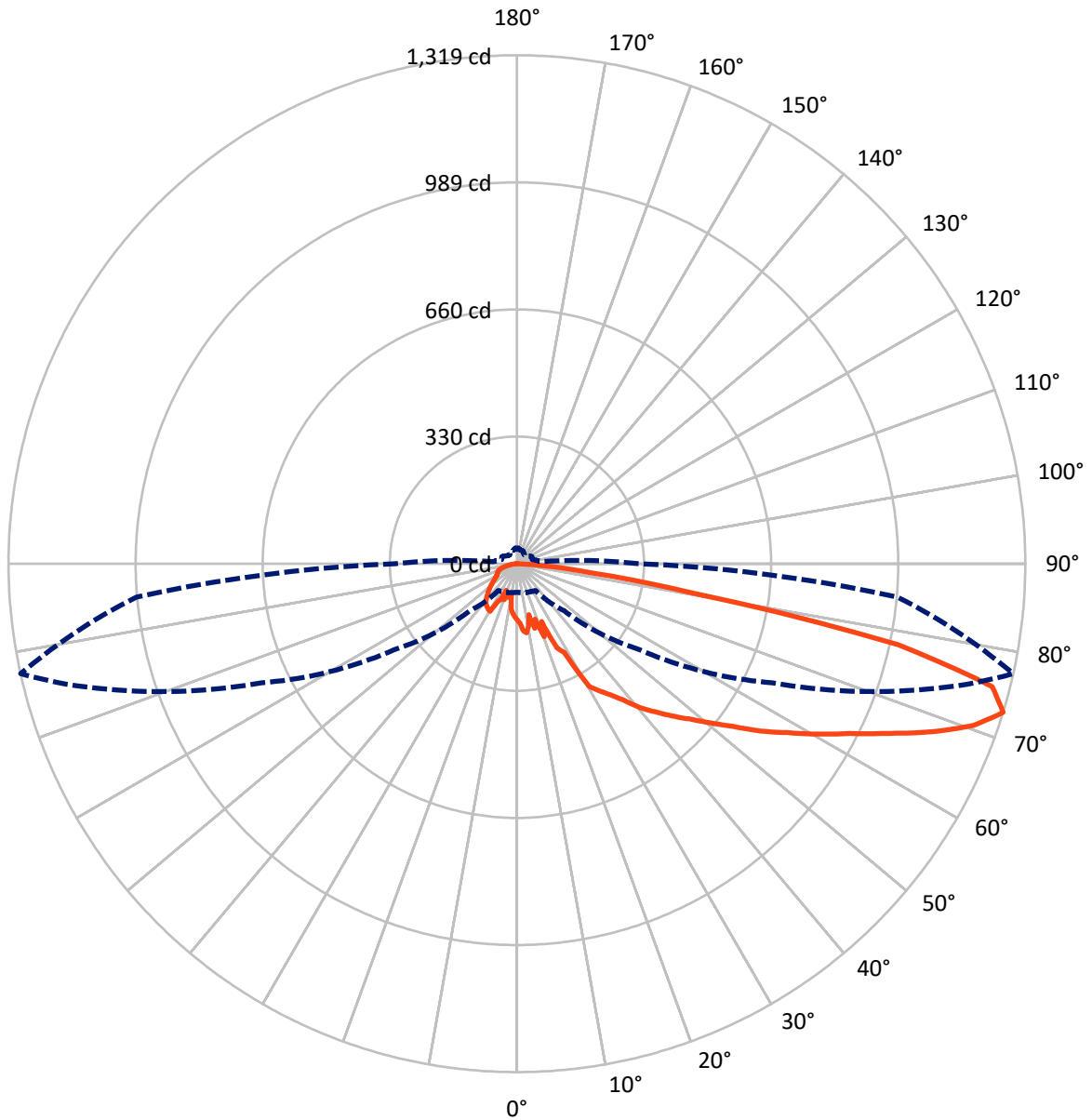


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc

Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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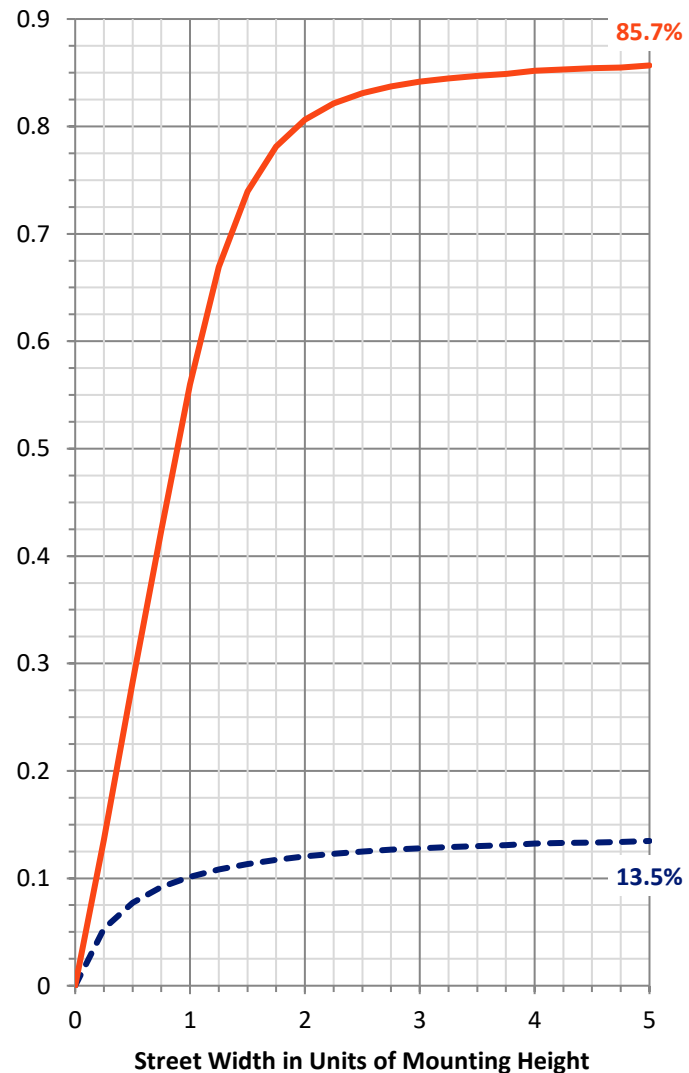
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	171.9	2.7	174.6
	% Fixture	13.7	0.2	13.9
Street Side	Lumens	1078.4	2.2	1080.6
	% Fixture	85.9	0.2	86.1
Total	Lumens	1250.3	4.8	1255.2
	% Fixture	99.6	0.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	1.1
10°-20°	39.5	3.1
20°-30°	70.1	5.6
30°-40°	142.2	11.3
40°-50°	225.2	17.9
50°-60°	266.7	21.2
60°-70°	261.8	20.9
70°-80°	200.6	16.0
80°-90°	29.9	2.4
90°-100°	1.1	0.1
100°-110°	0.8	0.1
110°-120°	0.6	0.0
120°-130°	0.7	0.1
130°-140°	0.7	0.1
140°-150°	0.6	0.0
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1250.3	99.6
0°-180°	1255.2	100.0

Coefficient of Utilization



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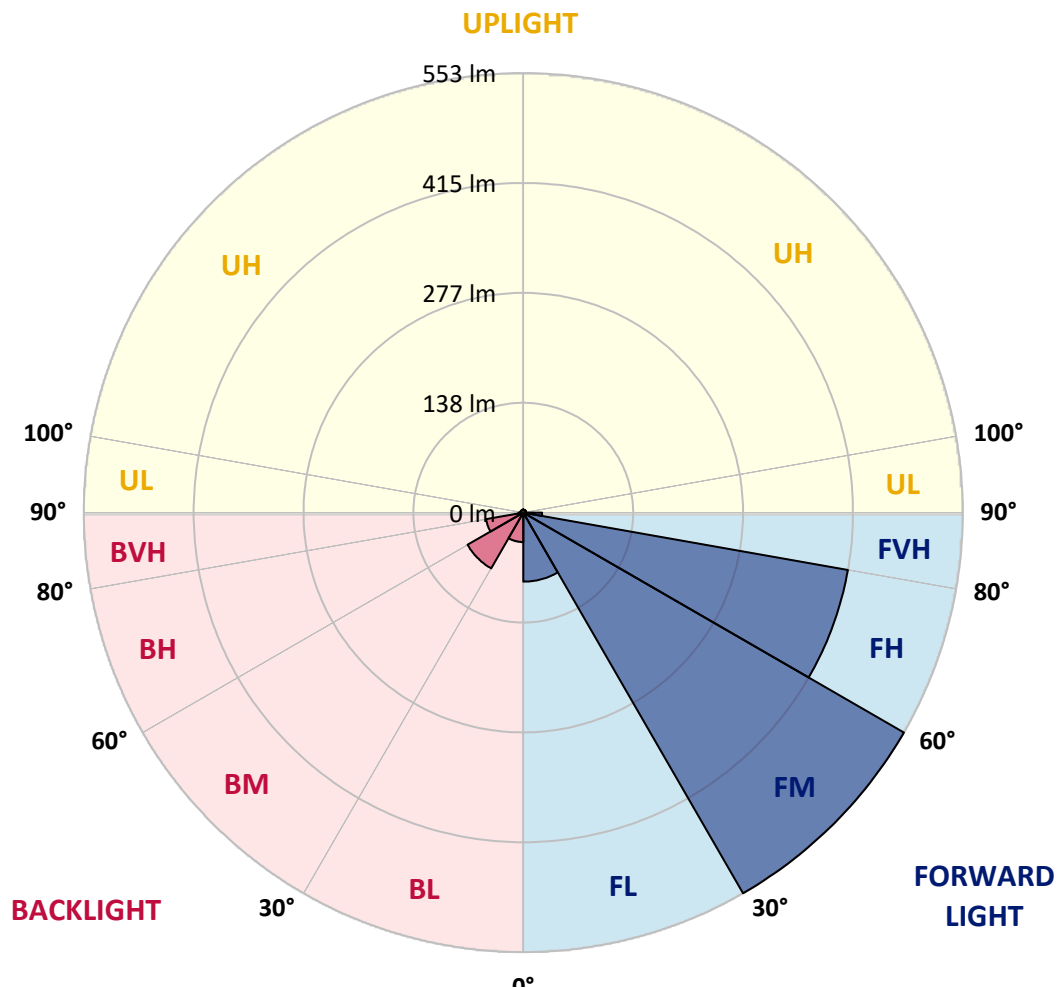
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.9	6.9			
FM	(30°-60°)	553.1	44.1			
FH	(60°-80°)	414.8	33.0			G0/660
FVH	(80°-90°)	23.7	1.9			G1/100
BL	(0°-30°)	37.1	3.0	B0/110		
BM	(30°-60°)	81.0	6.5	B0/220		
BH	(60°-80°)	47.6	3.8	B0/110		G0/110
BVH	(80°-90°)	6.2	0.5			G0/10
UL	(90°-100°)	1.1	0.1		U1/10	
UH	(100°-180°)	3.7	0.3		U1/10	

BUG Rating: B0-U1-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	146	146	146	146	146	146	146	146	146	146	146
2.5°	195	207	207	207	201	193	181	166	156	155	148
5°	208	209	206	205	201	197	189	207	183	175	154
7.5°	212	208	222	222	221	215	206	194	195	181	148
10°	234	234	235	235	194	229	172	160	149	164	130
12.5°	194	202	237	242	233	201	181	173	139	136	120
15°	227	229	233	217	178	210	166	139	180	174	163
17.5°	179	179	199	205	204	141	204	176	166	151	127
20°	222	222	226	172	199	222	206	155	205	202	189
22.5°	186	186	188	217	187	224	191	230	156	163	138
25°	238	239	241	191	220	183	228	172	249	242	213
27.5°	213	219	207	216	206	257	212	232	267	261	265
30°	291	294	285	248	222	237	246	278	363	369	324
32.5°	417	412	363	284	248	288	272	321	383	393	342
35°	490	488	457	366	276	299	299	335	415	418	362
37.5°	556	559	536	415	329	332	312	355	441	448	383
40°	610	611	589	475	372	363	327	387	465	491	404
42.5°	651	653	639	522	417	400	349	412	491	525	427
45°	681	681	675	567	458	432	385	431	524	563	453
47.5°	688	692	695	606	487	461	425	451	568	602	481
50°	668	671	695	637	509	487	462	483	608	648	519
52.5°	538	557	621	621	520	499	495	519	650	701	562
55°	397	406	481	542	518	505	516	559	705	766	614
57.5°	335	335	367	437	470	505	535	595	753	827	665
60°	282	284	306	346	400	496	552	640	803	897	720
62.5°	221	225	247	273	326	459	567	686	860	970	787
65°	161	164	184	206	253	404	568	725	934	1061	873
67.5°	117	121	132	150	186	333	540	759	1026	1164	946
70°	91	93	99	107	124	251	490	766	1116	1257	994
72.5°	74	75	78	80	85	172	389	731	1209	1319	991
75°	62	62	63	63	60	105	284	648	1250	1274	872
77.5°	52	52	52	52	46	74	189	517	1050	1011	586
80°	43	42	42	42	36	54	113	309	550	464	226
82.5°	25	29	30	30	30	37	52	118	210	191	100
85°	9	9	15	16	16	13	28	46	80	69	16
87.5°	0	0	0	1	1	1	2	2	2	2	2
90°	0	0	0	0	1	1	2	2	2	2	1
92.5°	0	0	0	0	1	1	2	2	2	2	1
95°	0	0	0	0	1	1	2	2	1	1	1
97.5°	0	0	0	0	1	1	1	1	1	1	1
100°	0	0	0	0	1	1	1	1	1	1	1
102.5°	0	0	0	0	1	1	1	1	1	1	1
105°	0	0	0	0	1	1	1	1	1	1	1
107.5°	0	0	0	0	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	0	0	0	0	1	0	1	1	1	1	1
115°	0	0	0	0	1	0	1	1	1	1	1
117.5°	0	0	0	0	1	0	1	1	1	1	1
120°	0	0	0	0	1	1	1	1	1	1	1
122.5°	0	0	0	0	1	1	1	1	1	1	1
125°	0	0	0	0	1	1	1	1	1	1	1
127.5°	0	0	0	0	1	1	1	1	1	1	1
130°	0	0	0	0	1	1	1	1	1	1	1
132.5°	0	0	0	0	1	1	1	1	1	1	1
135°	0	0	0	0	1	1	1	1	1	1	1
137.5°	0	0	0	0	1	1	1	1	1	1	1
140°	0	0	0	1	1	1	1	1	1	1	1
142.5°	0	0	0	1	1	1	1	1	1	1	1
145°	0	0	1	1	1	1	1	1	1	1	1
147.5°	1	1	1	1	1	1	1	1	1	1	1
150°	1	1	1	1	1	1	1	1	1	1	1
152.5°	1	1	1	1	1	1	1	1	1	1	1
155°	1	1	1	1	1	1	1	1	1	1	1
157.5°	0	0	0	0	1	1	1	1	1	1	1
160°	0	0	0	0	1	1	1	1	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°	146	146	146	146	146	146	146	146	146	146	146
2.5°	146	143	137	132	127	122	119	112	106	106	103
5°	147	141	127	116	99	98	98	98	98	98	99
7.5°	136	128	115	98	98	99	101	102	98	94	91
10°	115	105	79	76	78	89	93	110	114	115	116
12.5°	104	90	71	76	71	87	103	116	111	102	102
15°	134	114	82	67	71	89	78	101	115	117	117
17.5°	105	87	78	73	85	64	87	97	93	92	92
20°	151	123	91	70	82	90	78	74	100	100	99
22.5°	110	89	69	88	70	83	70	80	76	75	76
25°	167	131	93	67	78	66	73	64	80	80	79
27.5°	209	149	98	78	67	74	62	64	61	62	62
30°	257	192	125	83	71	61	58	59	66	65	65
32.5°	270	196	121	92	70	64	56	57	63	67	67
35°	283	197	116	89	68	59	55	58	64	61	62
37.5°	296	195	112	83	61	59	56	53	58	55	54
40°	309	191	105	75	55	58	52	52	50	48	48
42.5°	321	183	95	69	50	53	50	48	49	48	48
45°	336	172	86	62	46	47	44	49	51	52	52
47.5°	351	160	77	54	43	42	42	46	48	49	50
50°	370	146	70	47	41	39	39	44	47	47	47
52.5°	393	131	64	44	38	35	36	43	46	46	45
55°	412	115	58	42	37	32	34	41	45	44	44
57.5°	431	102	53	40	36	31	33	41	43	44	44
60°	446	91	51	40	34	31	33	40	42	44	44
62.5°	457	84	49	40	33	31	33	40	42	44	44
65°	459	77	49	42	33	31	33	40	42	45	44
67.5°	426	72	48	44	33	31	32	40	41	44	43
70°	383	66	45	45	34	30	32	39	39	44	42
72.5°	317	61	41	43	35	30	31	37	36	41	37
75°	229	52	34	40	34	31	29	34	33	36	33
77.5°	154	42	27	34	31	31	27	31	29	30	29
80°	71	26	19	26	26	31	25	27	24	24	23
82.5°	44	17	13	16	17	29	22	22	18	18	16
85°	13	8	7	9	12	15	15	12	9	12	8
87.5°	1	1	1	1	1	0	2	2	1	1	0
90°	1	1	1	1	1	0	2	1	1	1	0
92.5°	1	1	1	1	2	0	2	1	1	1	0
95°	1	1	1	2	2	1	2	1	1	1	1
97.5°	1	1	1	2	2	1	1	1	1	1	1
100°	1	1	1	2	2	0	1	1	1	1	1
102.5°	1	1	1	1	1	0	1	1	1	0	1
105°	1	1	1	1	1	1	1	1	1	0	0
107.5°	1	1	1	1	1	0	1	1	1	0	0



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CATALOG NUMBER: SDL-PA1-20-AMB-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1	1	1	1	1	0	0	0	0	0	0
115°	1	1	1	1	1	1	0	0	0	0	0
117.5°	1	1	1	1	1	1	0	0	0	0	0
120°	1	1	1	1	1	1	0	1	1	1	1
122.5°	1	1	1	1	1	1	1	1	1	1	1
125°	1	1	1	1	1	1	1	1	1	1	1
127.5°	1	1	1	1	1	1	1	1	1	1	1
130°	1	1	1	1	1	1	1	1	1	1	1
132.5°	1	1	1	1	1	1	1	1	1	1	1
135°	1	1	1	1	1	1	1	1	1	1	1
137.5°	1	1	1	1	1	1	1	1	1	1	1
140°	1	1	1	1	1	1	1	1	1	1	1
142.5°	1	1	1	1	1	1	1	1	1	1	1
145°	1	1	1	1	1	1	1	1	1	1	1
147.5°	1	1	1	1	1	1	1	1	1	1	1
150°	1	1	1	1	1	0	1	1	1	1	1
152.5°	1	1	1	1	1	0	0	1	1	1	1
155°	1	1	1	1	1	0	0	1	1	1	1
157.5°	1	1	1	1	1	0	0	0	1	1	1
160°	1	1	1	1	1	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	1	1	1	1	1	1	1
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110°	1	1	1	1	1	1	0	0	0	0	0
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(END OF REPORT)