

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: G3-2106-280-18

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

Test Date: 6/26/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-18
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-A
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE II R 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: 1146.4 lumens
Efficiency: N/A
Efficacy: 36.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U2 - G1

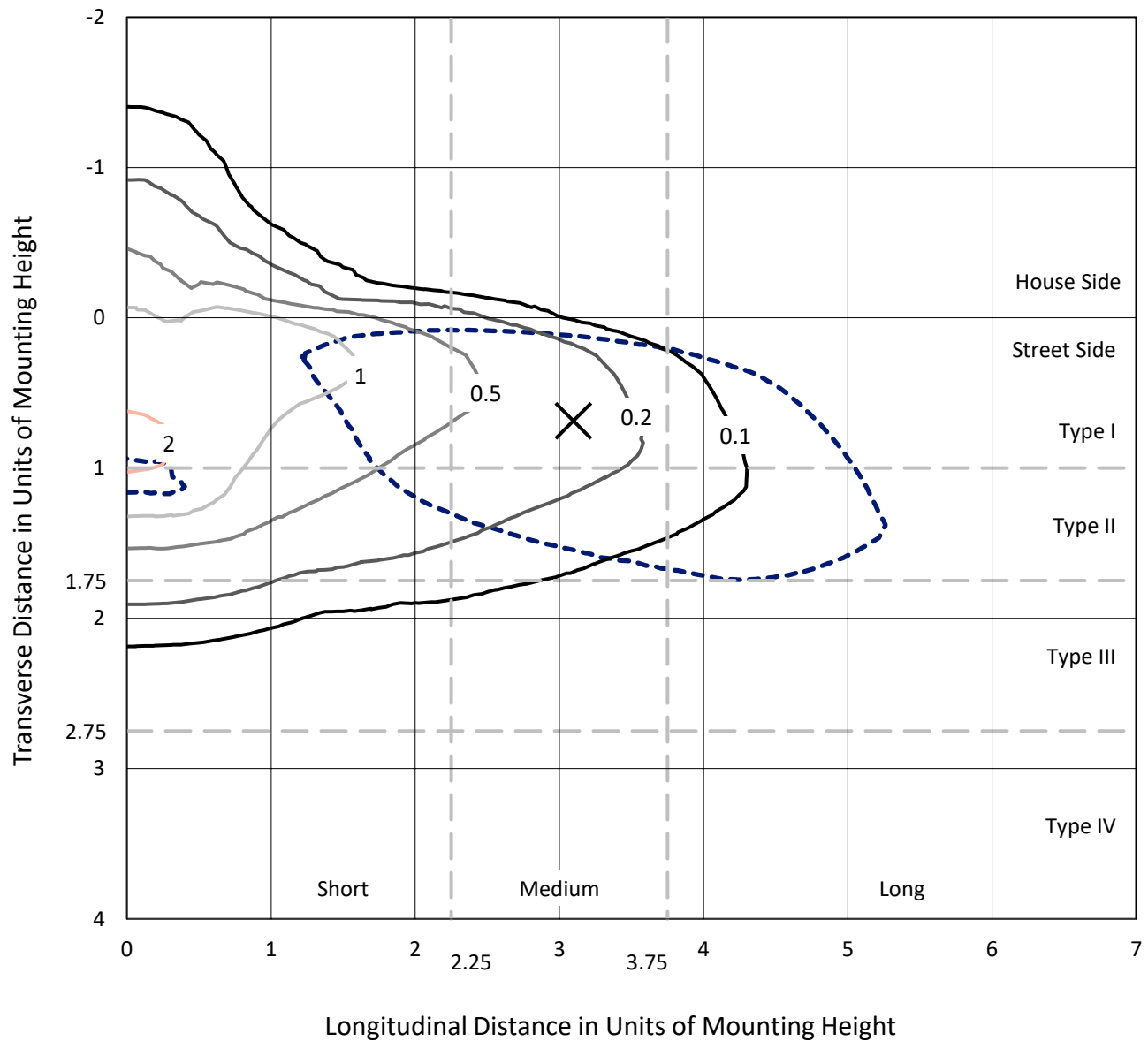
Input Watts (W): 31.3
Input Voltage (V): 120.0
Input Current (Ain): 0.266
Voltage Rise (V): NR
Power Factor: 0.9808
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.5
Test Distance: 24 FT



REPORT NUMBER: G3-2106-280-18
 CATALOG NUMBER: SDL-PA1-20-AMB-U-T2R-A

Iso-Footcandle Lines of Horizontal Illumination

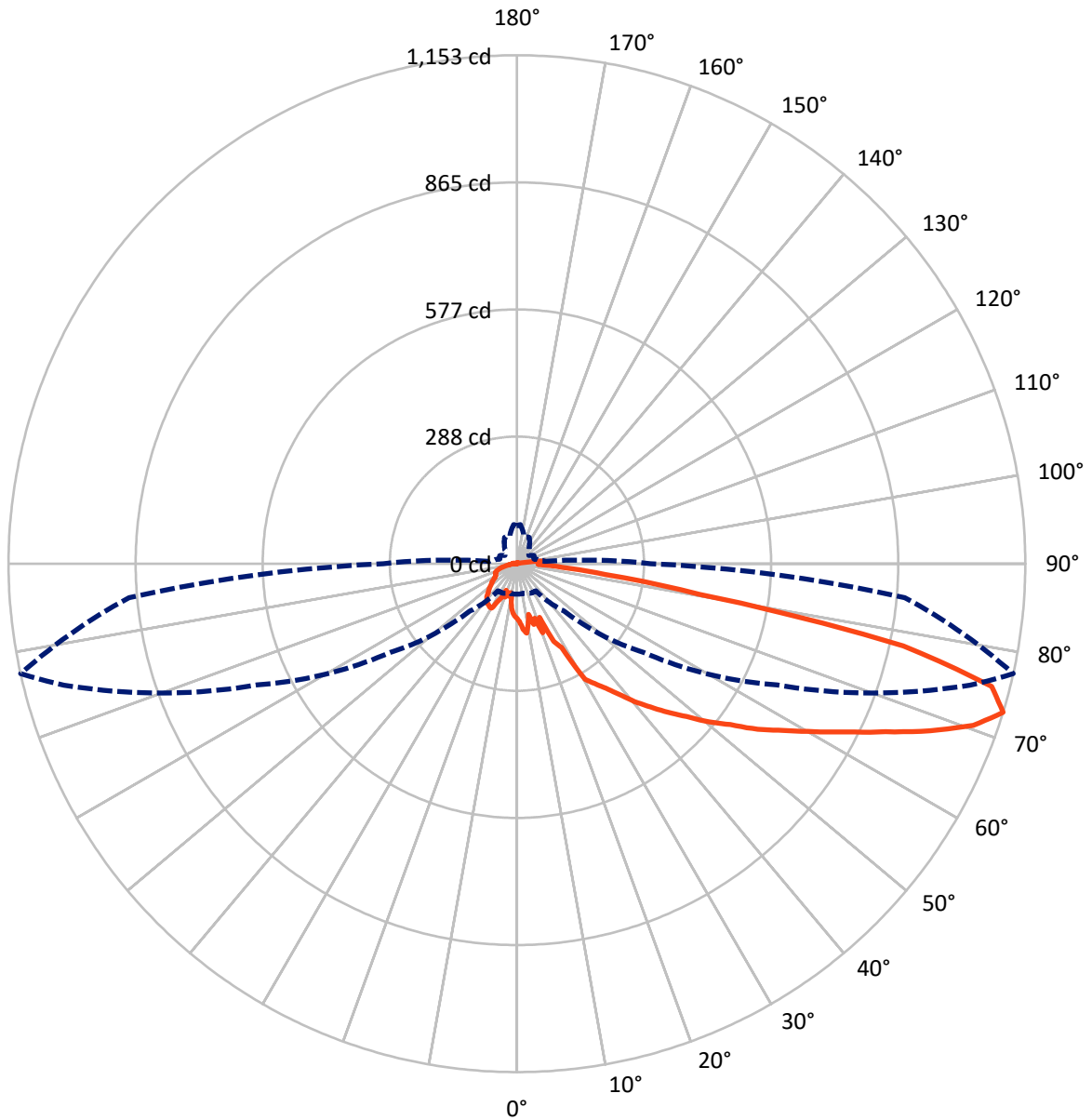
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

REPORT NUMBER: G3-2106-280-18
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Luminous Intensity Polar Plot



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

REPORT NUMBER: G3-2106-280-18

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

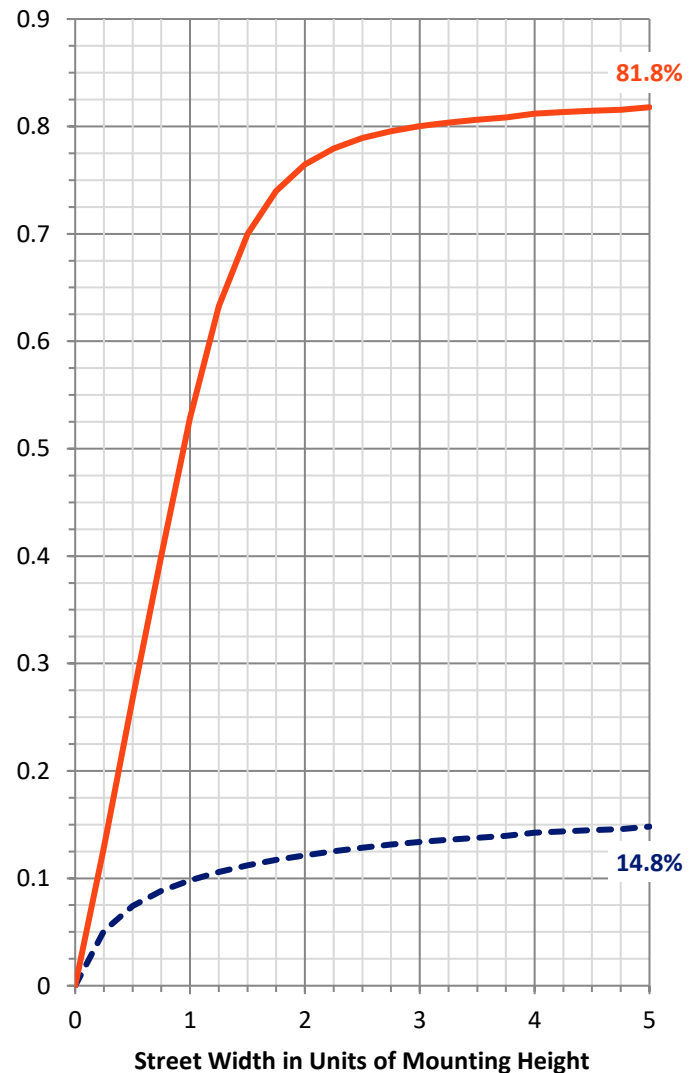
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	179.1	10.3	189.3
	% Fixture	15.6	0.9	16.5
Street Side	Lumens	944.2	12.9	957.0
	% Fixture	82.4	1.1	83.5
Total	Lumens	1123.3	23.1	1146.4
	% Fixture	98.0	2.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	1.1
10°-20°	33.6	2.9
20°-30°	59.2	5.2
30°-40°	119.5	10.4
40°-50°	193.0	16.8
50°-60°	232.8	20.3
60°-70°	236.2	20.6
70°-80°	190.7	16.6
80°-90°	46.0	4.0
90°-100°	15.9	1.4
100°-110°	3.3	0.3
110°-120°	1.4	0.1
120°-130°	1.2	0.1
130°-140°	0.7	0.1
140°-150°	0.3	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1123.3	98.0
0°-180°	1146.4	100.0



REPORT NUMBER: G3-2106-280-18

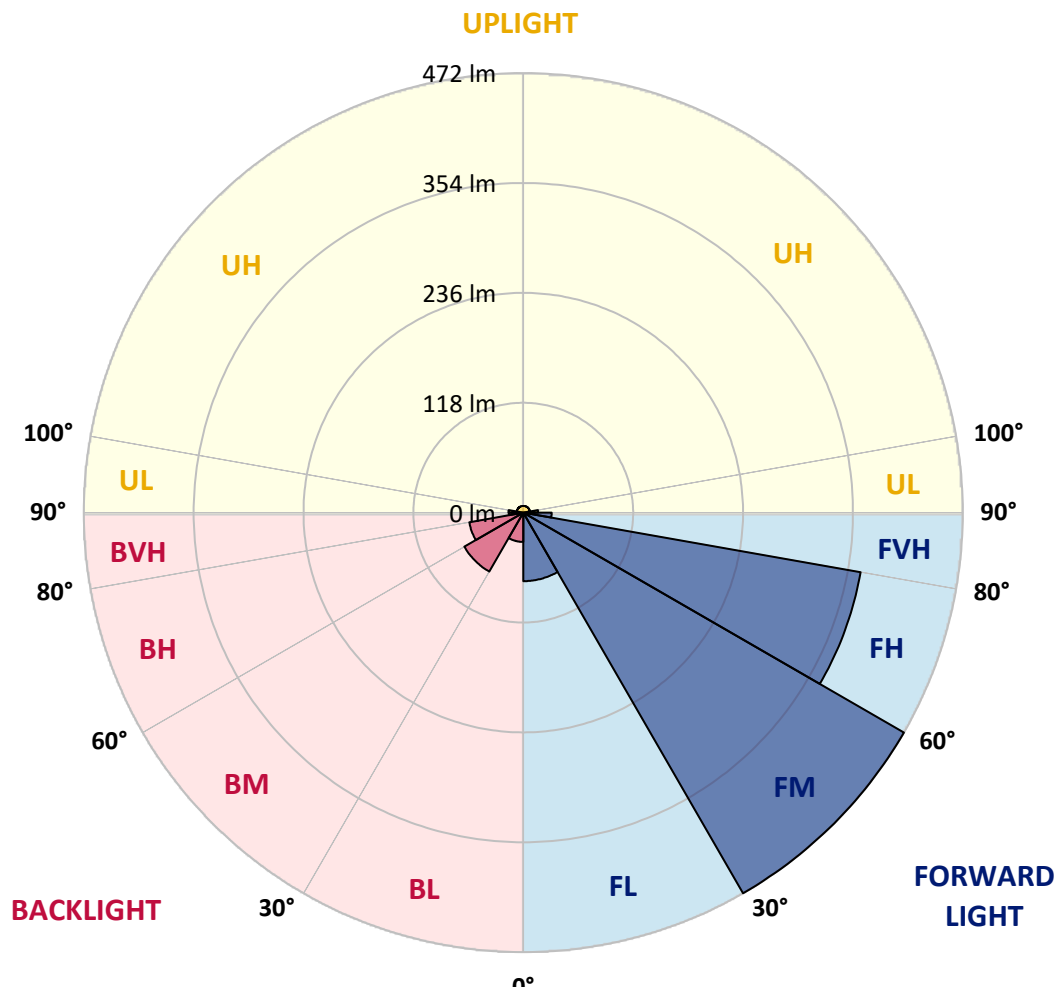
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.6	6.4			
FM	(30°-60°)	472.1	41.2			
FH	(60°-80°)	367.9	32.1			G0/660
FVH	(80°-90°)	30.5	2.7			G1/100
BL	(0°-30°)	31.5	2.7	B0/110		
BM	(30°-60°)	73.1	6.4	B0/220		
BH	(60°-80°)	58.9	5.1	B0/110		G0/110
BVH	(80°-90°)	15.6	1.4			G1/100
UL	(90°-100°)	15.9	1.4		U2/50	
UH	(100°-180°)	7.2	0.6		U1/10	

BUG Rating: B0-U2-G1

Type II Medium



REPORT NUMBER: G3-2106-280-18

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	125	125	125	125	125	125	125	125	125	125	125
2.5°	172	176	178	178	174	169	157	143	134	133	128
5°	182	179	178	175	173	170	163	178	157	150	133
7.5°	181	182	191	191	190	185	177	165	174	159	126
10°	197	195	196	197	178	195	148	139	128	139	113
12.5°	168	176	197	203	202	167	157	148	128	118	107
15°	191	190	193	195	155	174	144	153	148	143	135
17.5°	150	149	172	172	168	119	168	146	149	130	107
20°	184	184	186	149	163	178	170	145	167	167	154
22.5°	156	153	156	178	168	180	181	186	130	132	113
25°	200	199	199	169	186	168	188	160	202	195	174
27.5°	200	201	173	186	187	205	178	195	218	215	218
30°	246	244	236	211	188	190	202	234	298	304	268
32.5°	351	346	309	243	205	232	239	262	317	324	284
35°	415	412	391	309	228	244	249	277	349	347	301
37.5°	480	472	453	357	274	272	264	303	370	375	322
40°	526	518	503	401	310	298	277	325	391	411	346
42.5°	561	556	540	442	356	331	291	351	418	444	367
45°	587	580	575	484	384	361	326	373	451	481	395
47.5°	592	592	592	519	409	387	353	399	495	518	421
50°	573	572	589	540	430	409	389	416	527	564	455
52.5°	465	471	529	532	443	419	420	448	569	606	496
55°	351	349	421	458	444	429	444	484	617	663	540
57.5°	286	292	316	375	407	427	464	525	656	713	579
60°	247	248	261	300	346	421	487	568	699	773	633
62.5°	194	197	212	239	282	395	504	610	749	840	687
65°	144	144	159	183	220	351	511	640	818	919	761
67.5°	106	107	115	130	164	291	489	671	902	1011	833
70°	83	84	87	95	108	221	436	679	980	1098	883
72.5°	69	69	69	74	75	153	351	651	1064	1153	883
75°	58	58	57	58	57	104	267	580	1094	1112	781
77.5°	48	48	47	48	44	77	188	457	935	896	537
80°	40	40	39	39	36	59	126	291	503	420	226
82.5°	27	29	29	29	30	45	73	130	213	201	130
85°	11	12	15	16	19	26	56	74	103	102	62
87.5°	4	4	3	3	5	15	33	34	40	48	50
90°	4	4	3	3	4	12	33	35	43	52	54
92.5°	5	5	3	2	4	10	32	35	47	57	59
95°	5	5	2	2	4	8	30	35	52	64	63
97.5°	5	5	2	2	3	7	22	25	29	34	36
100°	4	4	2	2	3	5	13	14	3	3	3
102.5°	4	4	2	2	2	3	6	7	2	2	3
105°	4	4	2	1	1	2	2	3	2	2	3
107.5°	4	4	2	1	1	1	1	1	2	2	3



REPORT NUMBER: G3-2106-280-18

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
112.5°	2	2	1	1	1	1	1	1	1	2	3
115°	1	1	0	1	1	1	1	1	1	2	3
117.5°	1	1	0	0	0	0	0	1	2	3	5
120°	1	1	0	0	0	0	0	1	3	4	6
122.5°	1	1	0	0	0	0	0	1	3	4	6
125°	1	1	1	0	0	0	0	1	2	3	5
127.5°	1	1	1	0	1	0	1	1	2	3	4
130°	1	1	1	0	1	0	0	1	2	2	4
132.5°	1	1	1	0	1	0	1	1	2	2	3
135°	1	1	1	0	1	1	0	0	1	1	2
137.5°	1	1	0	0	1	1	0	0	0	0	1
140°	0	0	0	0	1	1	0	0	0	0	1
142.5°	0	0	0	0	1	1	0	0	0	0	0
145°	0	0	0	0	1	1	0	0	0	0	0
147.5°	0	0	1	1	1	1	0	0	0	0	0
150°	2	2	2	2	1	1	1	0	0	0	0
152.5°	2	2	2	1	1	0	1	1	1	1	0
155°	1	1	1	1	1	0	0	0	1	2	2
157.5°	1	1	0	0	1	1	0	0	1	1	0
160°	0	0	0	0	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 NUMBER: G3-2106-280-18

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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°	126	124	118	115	109	106	103	101	95	91	95
5°	127	121	110	98	86	85	85	85	85	85	86
7.5°	117	110	98	85	85	86	87	88	85	81	80
10°	99	91	69	66	67	82	88	93	95	97	97
12.5°	90	81	62	66	60	72	88	97	94	86	86
15°	111	95	70	61	61	73	66	92	95	96	97
17.5°	88	74	66	61	69	56	72	80	83	76	77
20°	123	100	74	61	64	73	65	69	82	82	82
22.5°	90	73	62	71	67	68	61	66	64	62	63
25°	136	107	77	60	66	59	60	55	66	66	67
27.5°	189	138	81	66	58	60	54	52	50	56	57
30°	212	158	102	77	58	50	49	52	55	55	55
32.5°	225	163	101	78	59	52	47	49	56	57	57
35°	237	165	96	73	56	49	45	48	53	52	52
37.5°	251	164	95	69	52	49	46	46	50	54	54
40°	266	163	87	63	46	48	43	47	48	48	47
42.5°	277	158	84	60	43	45	42	43	48	52	51
45°	294	150	74	52	39	38	36	46	50	53	52
47.5°	303	141	69	48	36	35	38	45	48	54	55
50°	329	132	63	42	34	32	40	44	50	52	52
52.5°	343	118	58	40	32	29	37	43	51	54	53
55°	370	109	54	38	32	28	38	44	48	50	50
57.5°	382	95	49	37	31	30	38	48	46	50	51
60°	395	86	47	37	32	30	41	52	50	56	57
62.5°	406	79	46	39	31	31	41	56	53	63	63
65°	409	74	47	41	31	33	41	61	58	69	69
67.5°	392	72	47	43	31	34	44	65	61	73	74
70°	360	69	44	44	33	36	47	65	63	81	79
72.5°	303	63	40	43	33	37	49	66	63	89	86
75°	221	56	34	41	34	38	48	68	63	85	83
77.5°	161	46	28	36	33	41	48	66	61	80	80
80°	92	32	22	30	31	42	49	64	56	71	69
82.5°	67	24	17	21	25	42	49	55	46	53	52
85°	40	15	13	16	21	31	39	42	33	40	36
87.5°	31	8	8	9	12	15	24	28	22	25	25
90°	32	7	8	10	12	13	20	22	19	20	21
92.5°	33	7	9	11	12	11	16	19	15	16	16
95°	33	7	10	12	12	9	13	14	11	10	10
97.5°	19	5	10	12	11	7	10	11	7	5	5
100°	3	2	10	12	9	5	8	8	5	2	2
102.5°	3	2	8	11	6	3	5	5	3	1	1
105°	3	2	4	8	4	1	2	3	2	1	1
107.5°	3	2	1	4	2	1	1	1	1	1	1



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	3	2	1	2	1	1	1	1	1	4	4
115°	3	2	1	1	1	1	1	0	1	5	5
117.5°	4	3	1	1	1	0	1	0	1	5	5
120°	5	3	1	1	1	0	1	0	2	5	5
122.5°	4	3	2	1	1	0	0	1	2	5	5
125°	4	3	2	1	1	0	0	1	2	4	4
127.5°	4	3	2	1	1	0	1	1	2	4	4
130°	3	2	1	1	1	0	0	1	2	3	3
132.5°	2	2	1	1	1	0	1	1	2	3	3
135°	2	1	1	1	1	0	1	1	2	2	2
137.5°	1	1	1	1	1	0	1	0	1	1	1
140°	1	1	1	1	1	0	0	0	1	1	1
142.5°	1	1	1	1	1	0	0	0	1	1	1
145°	1	1	1	1	1	0	0	0	1	1	1
147.5°	1	1	1	1	1	0	0	1	1	1	1
150°	1	1	1	1	1	0	0	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	0	1	1	1
157.5°	1	1	1	1	1	0	0	0	1	0	0
160°	0	0	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° | 3 3 1 1 1 1 1 1 1 2 3



110° | 3 2 1 2 1 1 1 1 1 3 3



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