

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: G3-2106-280-10

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

Test Date: 6/28/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-10
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-A
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD 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: 887.4 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - 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: 0.9809
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.1
Test Distance: 24 FT



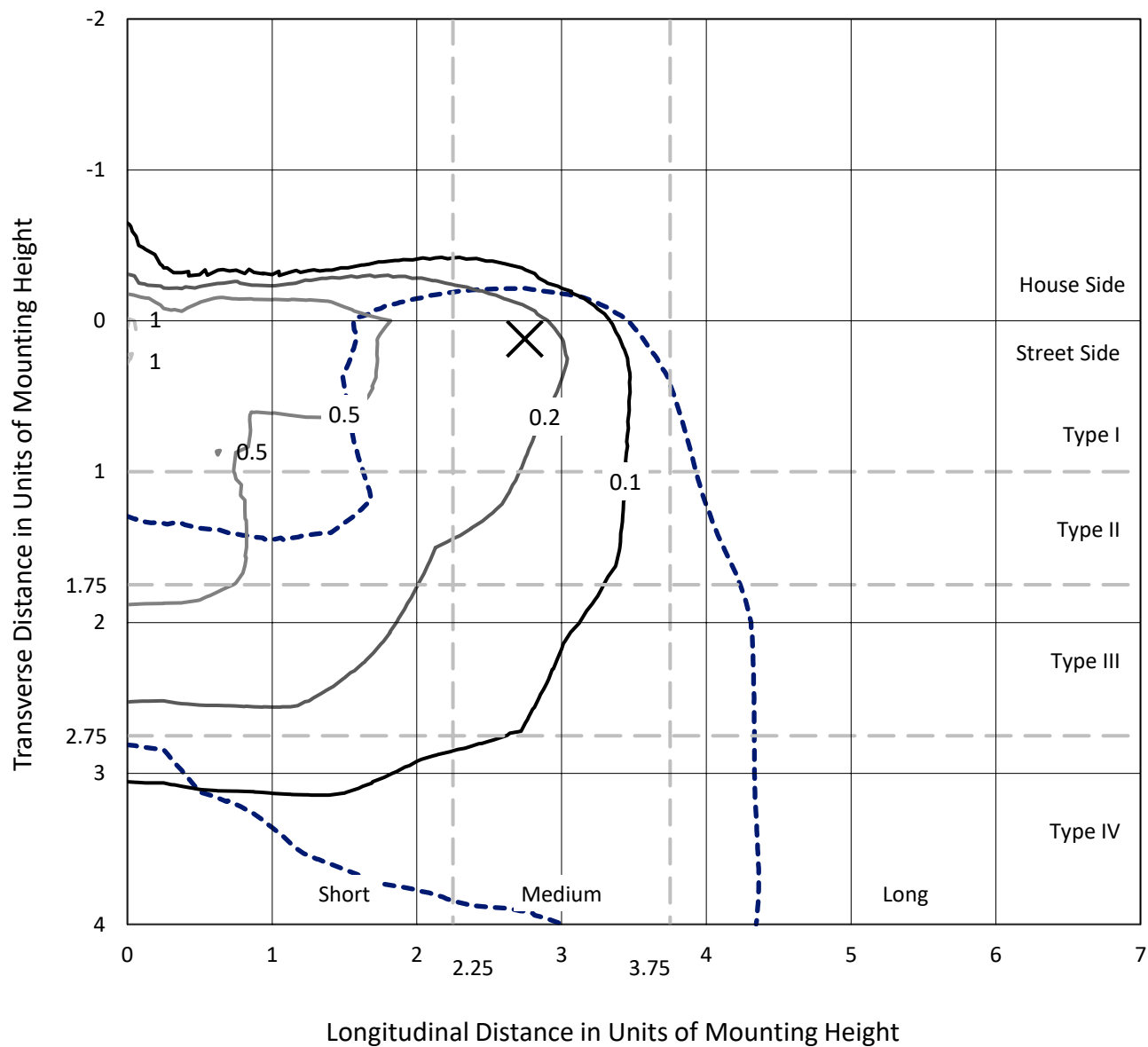
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

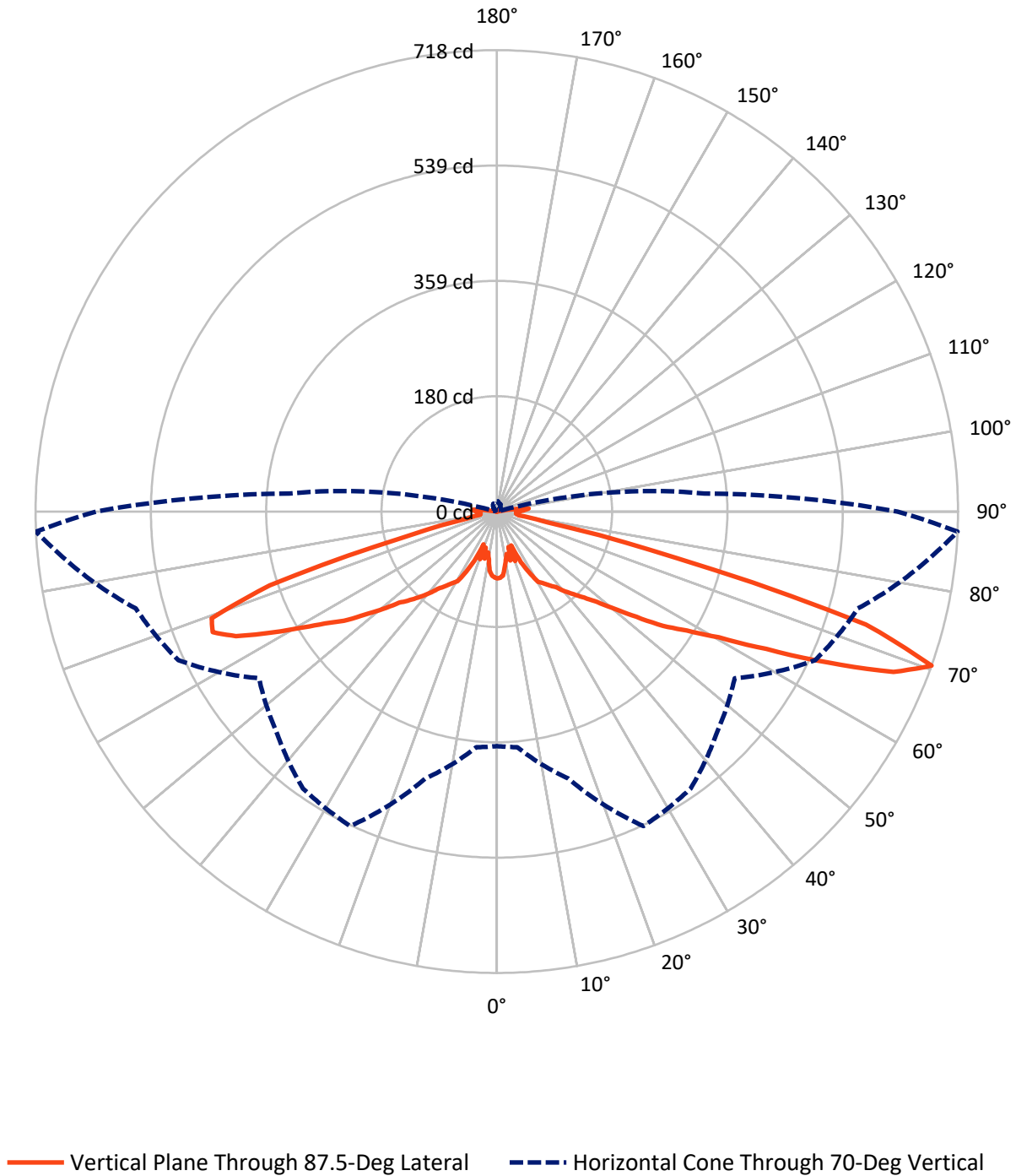


Based on 10 foot mounting height. Maximum calculated value = 1 fc

Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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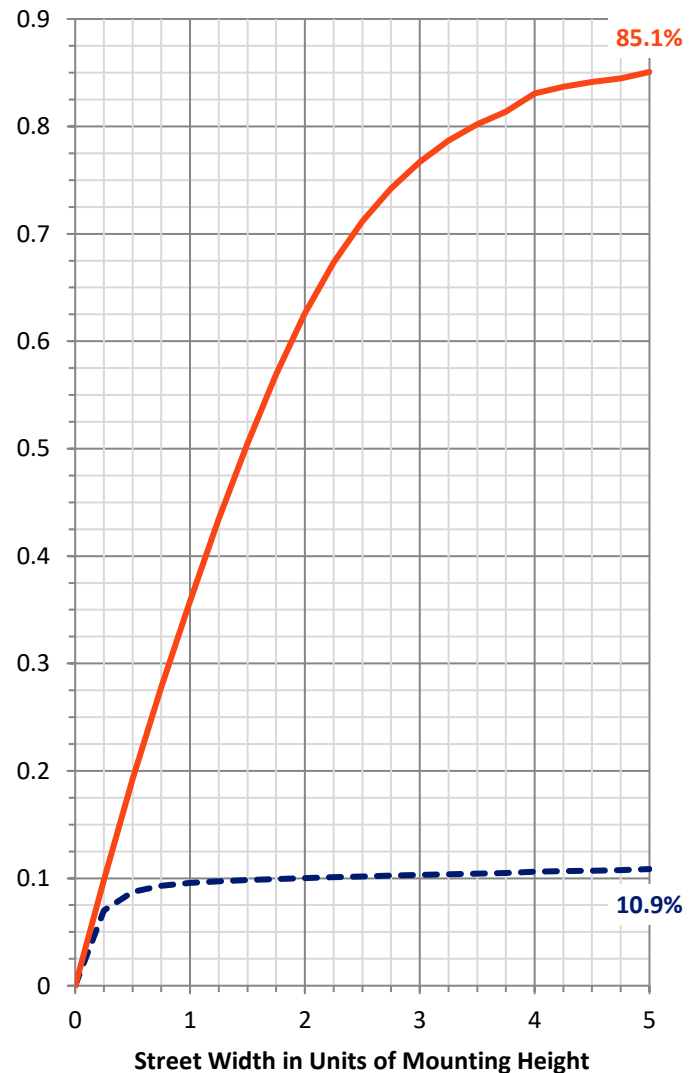
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	104.6	15.7	120.3
	% Fixture	11.8	1.8	13.6
Street Side	Lumens	756.2	11.0	767.1
	% Fixture	85.2	1.2	86.4
Total	Lumens	860.8	26.6	887.4
	% Fixture	97.0	3.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.9
10°-20°	17.9	2.0
20°-30°	29.1	3.3
30°-40°	52.5	5.9
40°-50°	86.4	9.7
50°-60°	153.6	17.3
60°-70°	254.6	28.7
70°-80°	224.3	25.3
80°-90°	34.0	3.8
90°-100°	21.2	2.4
100°-110°	3.8	0.4
110°-120°	0.8	0.1
120°-130°	0.5	0.1
130°-140°	0.2	0.0
140°-150°	0.0	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	860.8	97.0
0°-180°	887.4	100.0



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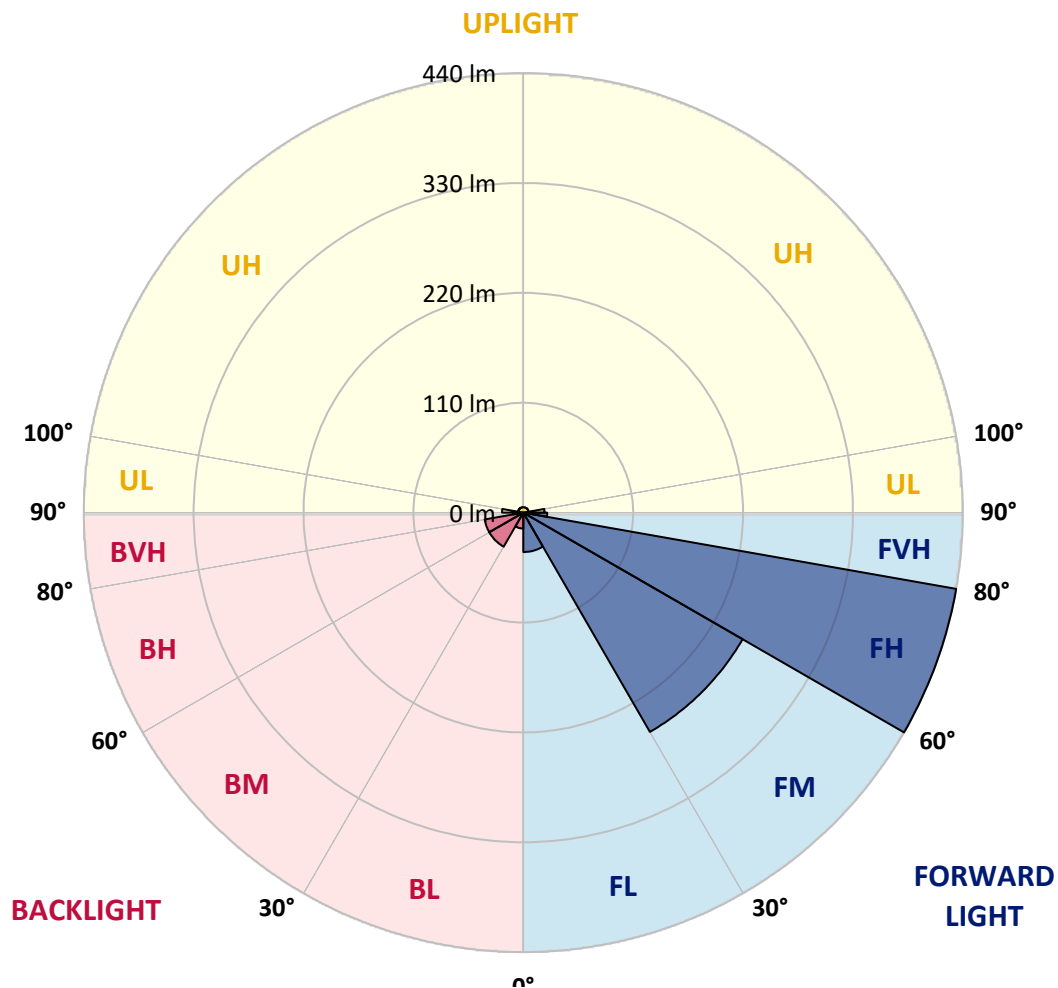
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	39.4	4.4			
FM	(30°-60°)	253.3	28.5			
FH	(60°-80°)	439.7	49.5			G0/660
FVH	(80°-90°)	23.8	2.7			G1/100
BL	(0°-30°)	15.9	1.8	B0/110		
BM	(30°-60°)	39.3	4.4	B0/220		
BH	(60°-80°)	39.2	4.4	B0/110		G0/110
BVH	(80°-90°)	10.2	1.1			G1/100
UL	(90°-100°)	21.2	2.4		U2/50	
UH	(100°-180°)	5.4	0.6		U1/10	

BUG Rating: B0-U2-G1

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87.5°
0°	104	104	104	104	104	104	104	104	104	104	104
2.5°	96	101	103	104	105	105	105	106	105	103	103
5°	103	102	101	100	98	96	94	103	103	102	100
7.5°	94	102	103	102	102	100	96	92	96	90	88
10°	114	111	110	108	101	100	77	74	70	79	77
12.5°	99	97	109	110	98	84	74	75	71	69	68
15°	119	118	115	110	79	87	70	71	76	80	79
17.5°	101	99	104	103	89	64	79	69	68	59	58
20°	121	120	119	92	87	90	78	70	79	83	82
22.5°	101	100	97	102	93	90	86	83	65	59	57
25°	120	120	121	98	97	86	90	74	88	89	87
27.5°	125	122	102	101	97	100	84	90	94	108	107
30°	129	127	126	111	95	93	94	108	125	130	127
32.5°	159	156	151	112	102	111	108	123	132	136	133
35°	167	163	160	129	105	116	112	130	141	143	141
37.5°	179	175	171	135	117	126	118	140	151	151	149
40°	190	189	189	146	126	134	128	150	162	162	163
42.5°	220	217	215	163	134	144	135	163	175	177	176
45°	260	254	251	182	146	157	144	175	193	191	191
47.5°	299	292	279	213	158	170	156	189	214	210	210
50°	332	324	311	251	184	186	174	209	248	237	238
52.5°	365	356	340	290	220	207	201	233	282	276	272
55°	376	371	368	327	254	235	228	272	325	314	314
57.5°	407	396	405	368	297	271	259	315	370	353	349
60°	459	454	461	428	342	309	294	366	410	398	397
62.5°	490	489	509	498	395	345	331	413	449	459	471
65°	471	464	528	536	463	386	371	458	496	538	566
67.5°	419	416	486	557	511	431	407	504	545	622	666
70°	365	368	430	540	526	485	452	547	582	690	718
72.5°	320	329	397	499	508	549	506	581	583	655	601
75°	140	147	302	447	495	621	563	587	480	356	288
77.5°	60	63	96	281	410	655	533	425	232	103	81
80°	21	23	35	81	205	435	288	159	63	36	35
82.5°	6	7	12	28	68	136	95	59	39	32	31
85°	2	2	4	11	21	30	46	50	37	31	30
87.5°	1	1	1	1	7	20	25	23	26	32	31
90°	1	1	1	1	7	22	27	25	28	36	36
92.5°	1	1	1	1	9	27	30	27	30	41	43
95°	1	1	0	1	9	29	34	28	32	47	50
97.5°	2	1	0	1	7	33	33	20	16	26	28
100°	2	2	0	1	2	21	24	14	2	2	2
102.5°	2	2	1	0	1	6	11	7	1	2	2
105°	3	3	0	0	0	1	2	2	1	2	2
107.5°	3	3	0	0	0	1	1	1	1	2	2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87.5°
112.5°	2	2	0	0	0	0	0	1	1	2	2
115°	1	0	0	0	0	0	0	1	1	2	2
117.5°	0	0	0	0	0	0	0	1	1	2	2
120°	0	0	0	0	0	0	0	1	1	3	3
122.5°	0	0	0	0	0	0	0	1	1	2	3
125°	0	0	0	0	0	0	0	0	1	2	2
127.5°	0	0	0	0	0	0	0	1	1	2	2
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	0	1	1
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	1	1	1	1	0	0	1	0	0	0	0
152.5°	1	1	1	1	0	0	0	1	1	0	0
155°	1	1	0	0	0	0	0	0	1	1	1
157.5°	0	0	0	0	0	0	0	0	1	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	104	104	104	104	104	104	104	104	104	104	104
2.5°	103	102	100	100	99	98	98	97	96	96	98
5°	100	99	96	94	80	77	75	75	74	74	75
7.5°	95	89	88	77	71	70	68	68	68	68	69
10°	76	74	61	55	54	62	55	54	53	52	53
12.5°	65	65	56	53	50	43	43	40	36	34	35
15°	77	74	60	49	37	36	27	19	19	22	22
17.5°	62	55	57	45	35	18	15	17	19	20	20
20°	80	77	61	39	26	14	13	12	16	19	19
22.5°	57	53	48	41	16	13	11	14	17	16	15
25°	86	82	66	29	13	10	13	12	15	17	18
27.5°	113	97	68	25	10	12	11	13	13	14	14
30°	126	123	85	20	10	10	12	11	15	16	16
32.5°	133	130	80	16	10	10	10	12	14	16	17
35°	142	139	73	13	10	9	9	12	15	16	16
37.5°	151	148	65	12	9	8	8	10	13	18	18
40°	165	163	53	11	9	8	8	10	13	15	16
42.5°	179	178	40	11	8	7	7	8	11	15	15
45°	196	190	28	11	8	6	6	8	9	12	12
47.5°	210	206	20	10	7	5	6	7	7	12	12
50°	244	222	16	10	7	5	6	5	7	10	10
52.5°	277	244	15	9	7	3	5	5	8	11	11
55°	319	266	14	9	6	3	5	5	6	8	8
57.5°	357	282	13	8	4	2	5	7	6	7	8
60°	413	301	11	7	3	2	6	9	7	9	9
62.5°	486	319	9	5	2	2	6	10	8	10	11
65°	566	334	6	4	2	3	6	11	9	12	12
67.5°	622	339	5	4	2	4	8	13	11	13	13
70°	624	324	5	4	2	5	10	13	13	16	16
72.5°	507	237	4	4	2	5	11	15	15	22	22
75°	234	75	4	4	2	6	12	17	17	26	26
77.5°	63	30	4	4	3	7	14	21	19	29	29
80°	33	21	3	4	5	9	17	24	21	31	32
82.5°	30	21	3	4	6	11	21	27	23	33	33
85°	30	21	3	4	6	13	25	31	25	35	34
87.5°	32	22	4	4	7	15	29	34	29	37	37
90°	37	24	4	4	9	17	34	38	34	41	41
92.5°	43	26	5	5	11	22	38	40	37	43	43
95°	48	27	6	6	14	27	40	40	34	35	36
97.5°	25	14	7	7	12	30	35	33	22	19	20
100°	2	2	7	8	6	16	24	23	13	6	6
102.5°	2	2	6	8	4	3	14	15	10	1	1
105°	2	2	2	6	3	1	4	8	6	1	1
107.5°	2	2	1	3	1	1	1	1	1	1	1



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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2	2	1	1	1	1	1	0	1	2	2
115°	2	2	1	1	1	1	0	0	1	2	2
117.5°	2	2	1	1	0	0	0	0	1	3	3
120°	3	2	1	1	0	0	0	0	1	3	3
122.5°	2	2	1	0	0	0	0	0	1	3	3
125°	2	2	1	1	0	0	0	0	1	2	3
127.5°	2	2	1	0	0	0	0	0	1	2	3
130°	2	1	1	0	0	0	0	0	1	2	2
132.5°	1	1	1	0	0	0	0	0	1	2	2
135°	1	1	1	0	0	0	0	0	1	1	1
137.5°	1	1	0	0	0	0	0	0	0	1	1
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	1	1	1	0	0	0	0	0	0	0	0
157.5°	0	0	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°	3	3	0	0	0	0	0	1	1	2	2
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110°	2	2	1	1	1	1	1	1	1	1	1
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(END OF REPORT)