

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: G3-2106-280-15

Luminaire Tested: **SDL-PA1-20-AMB-U-SL3-HSS**

Test Date: 6/28/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-15
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-SL3-HSS
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR 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: 1077.4 lumens
Efficiency: N/A
Efficacy: 34.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U1 - G1

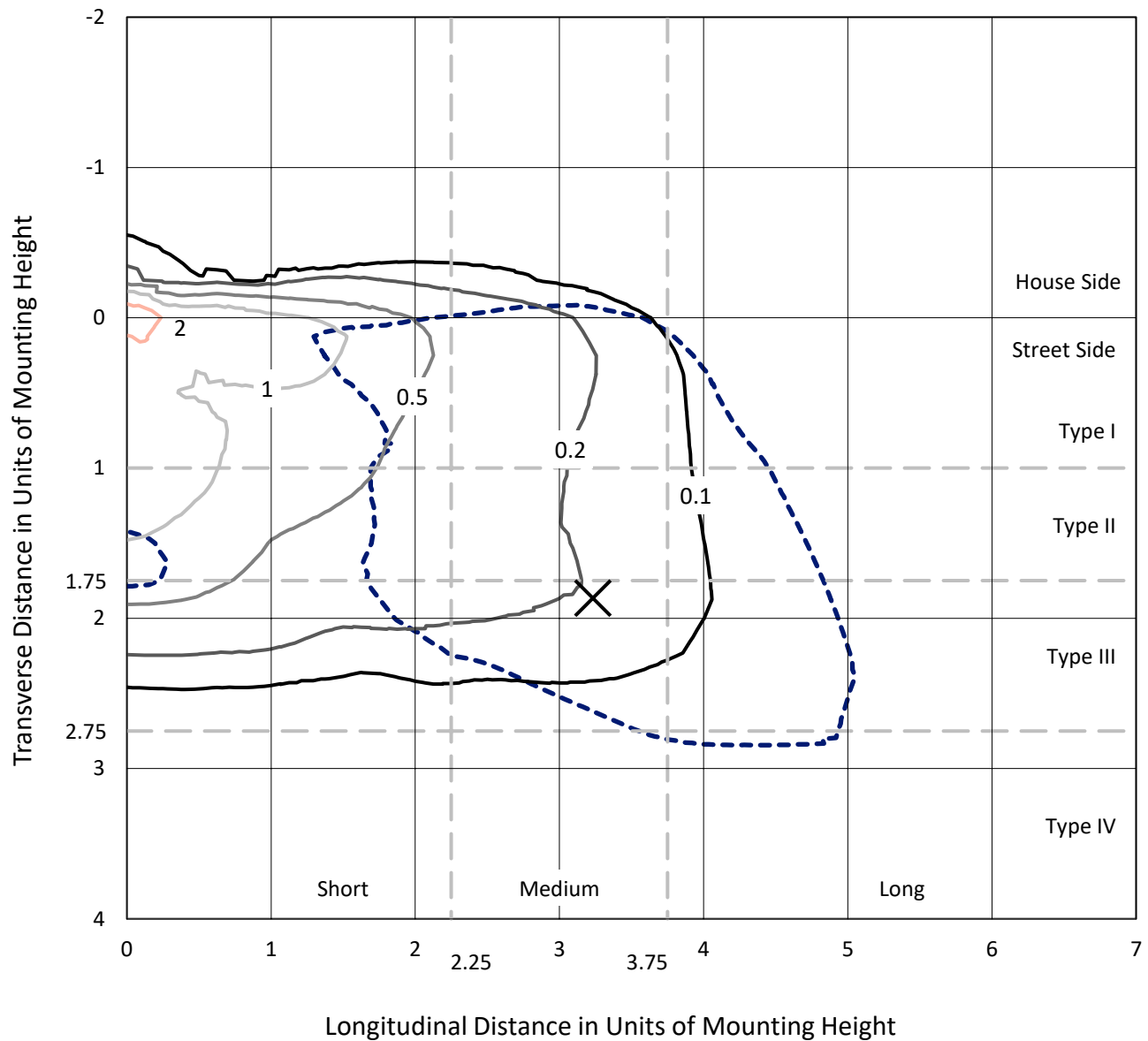
Input Watts (W): 31.4
Input Voltage (V): 120.0
Input Current (Ain): 0.267
Voltage Rise (V): NR
Power Factor: 0.9809
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.1
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

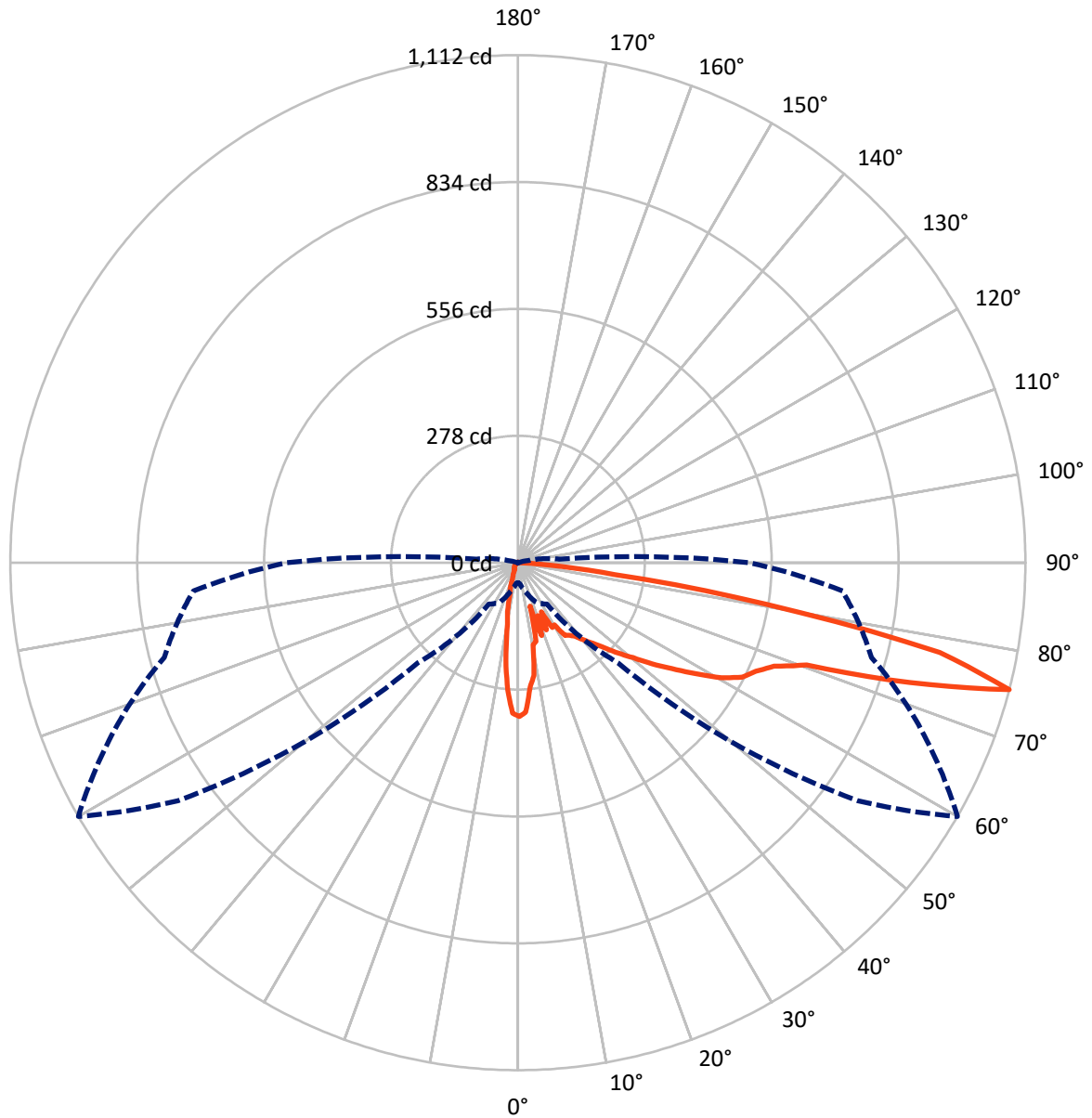
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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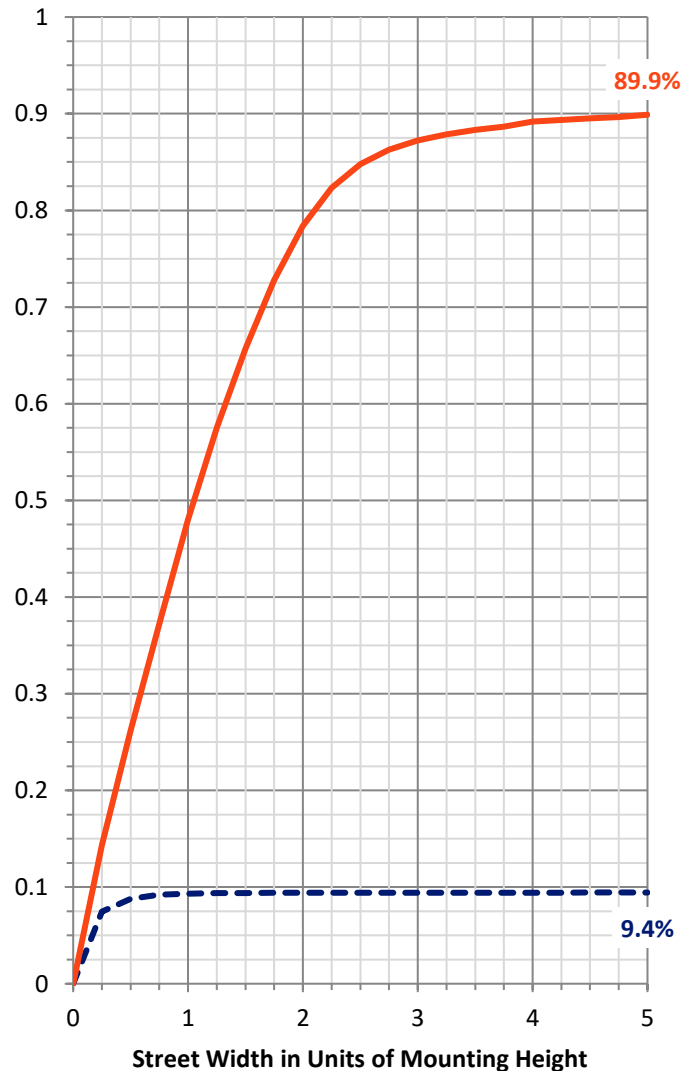
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	102.6	2.0	104.6
	% Fixture	9.5	0.2	9.7
Street Side	Lumens	971.2	1.5	972.7
	% Fixture	90.1	0.1	90.3
Total	Lumens	1073.8	3.6	1077.4
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	2.1
10°-20°	34.8	3.2
20°-30°	48.9	4.5
30°-40°	88.8	8.2
40°-50°	144.1	13.4
50°-60°	225.2	20.9
60°-70°	266.9	24.8
70°-80°	219.7	20.4
80°-90°	22.7	2.1
90°-100°	1.0	0.1
100°-110°	0.8	0.1
110°-120°	0.4	0.0
120°-130°	0.3	0.0
130°-140°	0.3	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1073.8	99.7
0°-180°	1077.4	100.0



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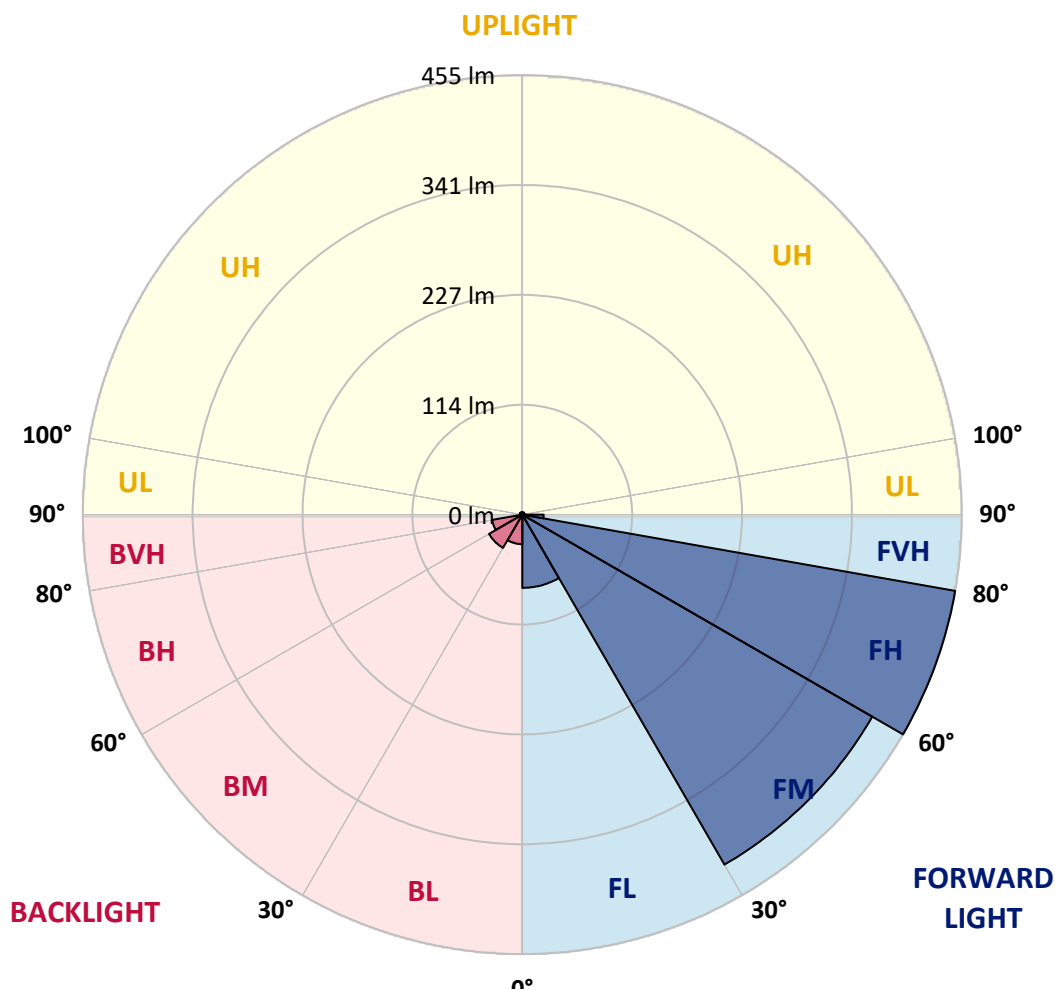
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.8	7.0			
FM	(30°-60°)	418.3	38.8			
FH	(60°-80°)	455.0	42.2			G0/660
FVH	(80°-90°)	22.1	2.1			G1/100
BL	(0°-30°)	30.5	2.8	B0/110		
BM	(30°-60°)	39.8	3.7	B0/220		
BH	(60°-80°)	31.7	2.9	B0/110		G0/110
BVH	(80°-90°)	0.6	0.1			G0/10
UL	(90°-100°)	1.0	0.1		U1/10	
UH	(100°-180°)	2.5	0.2		U1/10	

BUG Rating: B0-U1-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	337	337	337	337	337	337	337	337	337	337	337
2.5°	274	281	309	317	319	323	326	328	330	333	334
5°	252	251	252	254	255	259	262	275	303	320	325
7.5°	191	207	227	233	240	246	249	250	252	284	286
10°	218	216	219	224	191	222	185	183	185	190	232
12.5°	168	167	191	213	205	183	155	177	179	181	188
15°	198	198	200	192	142	176	148	99	144	188	221
17.5°	152	150	160	176	166	112	164	168	151	160	149
20°	184	182	184	141	151	170	153	124	128	188	218
22.5°	153	150	147	164	138	159	131	160	176	133	150
25°	187	185	186	141	151	127	156	119	132	198	226
27.5°	194	180	155	150	146	159	134	161	163	202	247
30°	228	218	203	175	145	142	152	158	190	261	309
32.5°	320	297	259	193	165	167	163	190	215	263	317
35°	350	327	293	234	182	174	178	195	219	271	327
37.5°	354	345	333	268	213	196	187	205	231	287	341
40°	360	358	364	300	247	218	202	223	248	301	360
42.5°	372	372	387	339	281	244	229	241	272	324	385
45°	382	383	405	368	310	277	259	266	296	355	420
47.5°	384	387	415	389	334	309	289	296	328	399	459
50°	419	423	436	415	358	342	324	327	360	450	510
52.5°	511	498	474	434	383	371	365	368	394	493	560
55°	562	551	501	439	407	403	409	409	428	531	602
57.5°	587	575	523	443	416	431	454	458	468	561	625
60°	578	574	536	465	418	458	501	512	511	572	636
62.5°	494	500	509	487	430	481	538	552	543	579	654
65°	359	372	415	458	446	512	562	573	562	593	673
67.5°	193	203	258	376	426	577	591	605	602	617	695
70°	114	116	121	195	332	613	703	671	663	653	762
72.5°	78	83	98	111	170	558	897	898	763	748	838
75°	44	46	66	96	111	310	909	1112	1008	802	714
77.5°	17	17	24	71	92	118	715	945	970	643	346
80°	9	9	11	27	89	109	341	550	524	245	73
82.5°	4	4	6	11	42	103	112	214	140	25	13
85°	1	1	2	5	6	47	92	70	50	7	5
87.5°	0	0	0	1	1	1	2	2	2	2	1
90°	0	0	0	0	1	1	2	2	2	2	1
92.5°	0	0	0	0	1	1	2	2	2	1	1
95°	0	0	0	0	0	1	2	2	2	1	1
97.5°	0	0	0	0	0	1	2	2	2	1	1
100°	0	0	0	0	0	1	2	2	2	1	1
102.5°	0	0	0	0	0	1	1	1	1	1	1
105°	0	0	0	0	0	1	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°	60°	65°	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	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	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	1	1
135°	0	0	0	0	0	0	0	1	1	1	1
137.5°	0	0	0	0	0	0	1	1	1	1	1
140°	0	0	0	0	0	1	1	1	1	1	1
142.5°	0	0	0	0	1	1	1	1	1	1	1
145°	0	0	0	0	1	1	1	1	1	1	1
147.5°	0	0	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	0	1	1	1	1	1
155°	1	1	1	1	0	0	1	1	1	1	1
157.5°	0	0	0	0	0	0	1	1	1	1	1
160°	0	0	0	0	0	0	1	1	1	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°	337	337	337	337	337	337	337	337	337	337	337
2.5°	334	336	333	331	329	327	324	319	319	311	304
5°	325	326	319	312	249	231	223	216	209	205	207
7.5°	281	274	275	228	203	187	171	158	153	144	146
10°	232	228	174	147	127	132	96	100	92	89	87
12.5°	189	183	128	122	96	75	60	50	41	34	32
15°	220	210	142	84	52	43	25	21	23	26	26
17.5°	148	138	116	69	42	18	18	23	25	23	23
20°	214	193	115	42	23	17	18	16	21	23	23
22.5°	144	125	74	40	15	17	14	19	21	18	19
25°	211	177	91	21	16	14	17	15	19	20	20
27.5°	231	182	75	17	13	15	13	15	14	14	14
30°	274	215	72	17	13	11	12	11	14	14	14
32.5°	274	206	51	17	12	11	10	10	11	12	12
35°	275	200	35	16	12	10	8	8	9	9	9
37.5°	280	194	25	14	10	9	7	7	7	7	7
40°	288	190	20	14	9	8	6	5	6	5	5
42.5°	303	189	19	13	8	6	5	4	4	4	4
45°	323	191	18	12	8	5	4	3	3	3	3
47.5°	353	197	17	11	7	4	3	3	3	2	2
50°	391	207	16	10	6	3	2	2	2	2	2
52.5°	430	219	15	10	5	3	2	2	1	1	1
55°	470	234	14	10	4	2	1	1	1	1	1
57.5°	490	239	13	9	3	2	1	1	1	0	1
60°	507	242	12	7	3	1	0	1	0	0	0
62.5°	532	247	10	6	2	1	0	1	0	0	0
65°	557	253	8	5	2	0	0	1	0	0	0
67.5°	595	268	6	3	1	0	0	1	0	0	0
70°	670	288	5	3	1	0	0	1	0	0	0
72.5°	690	242	4	2	1	0	1	1	0	0	0
75°	507	91	3	1	1	0	1	1	1	0	0
77.5°	183	20	3	1	1	0	1	1	1	0	0
80°	27	6	3	1	1	0	1	1	1	0	0
82.5°	8	3	2	1	1	0	1	1	1	0	0
85°	4	2	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	1	2	1	1	1	0
92.5°	1	1	1	1	1	1	2	1	1	1	0
95°	1	1	1	1	1	1	2	1	1	1	0
97.5°	1	1	1	1	1	1	2	1	1	1	1
100°	1	1	1	1	1	1	1	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	0	0



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CANDELA DISTRIBUTION (continued):

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