

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: G3-2106-280-19

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

Test Date: 6/26/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-19
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-HSS
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE II R 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: 1043.5 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U1 - G0

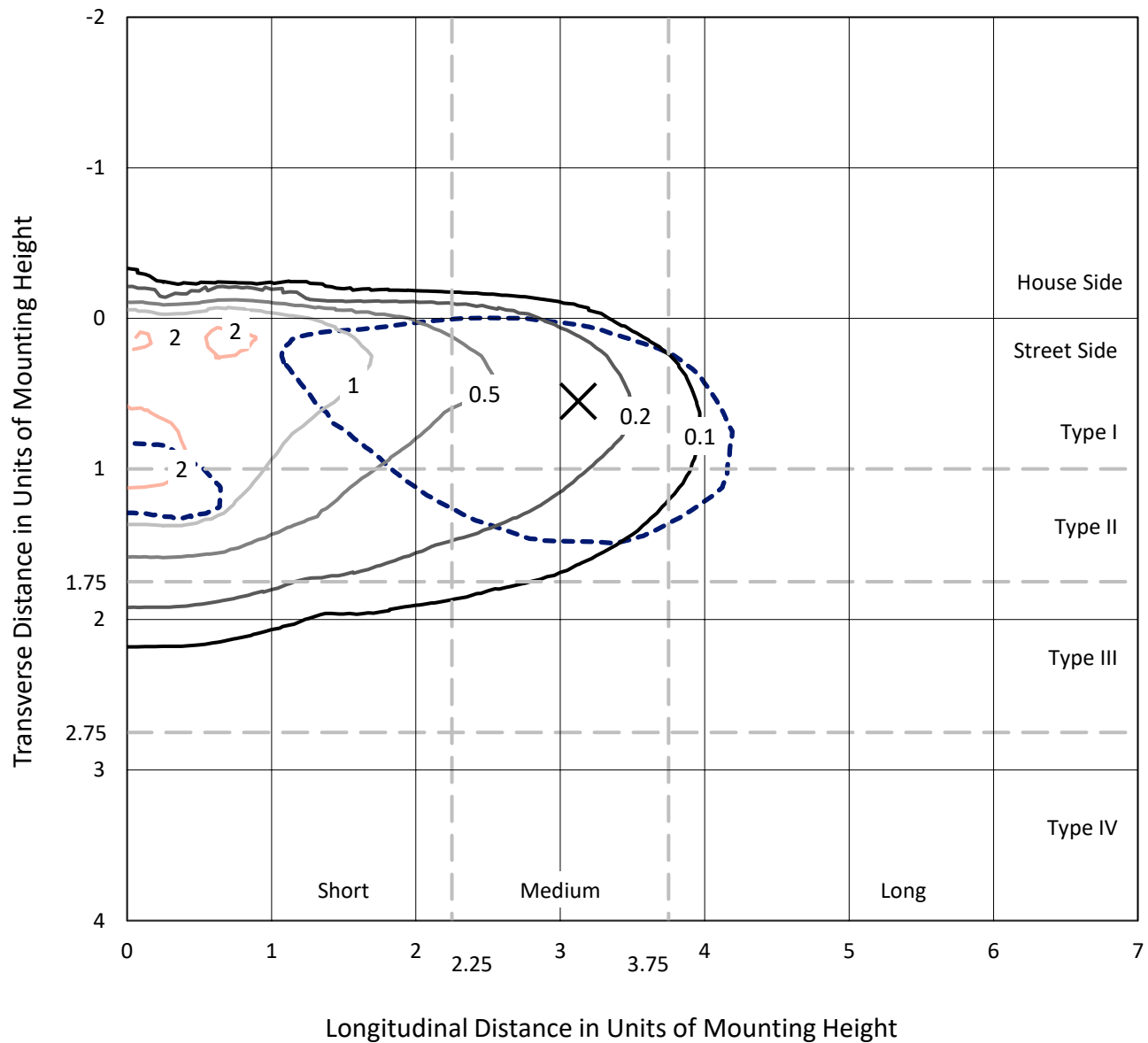
Input Watts (W): 31.3
Input Voltage (V): 120.0
Input Current (Ain): 0.266
Voltage Rise (V): NR
Power Factor: 0.9808
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.5
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

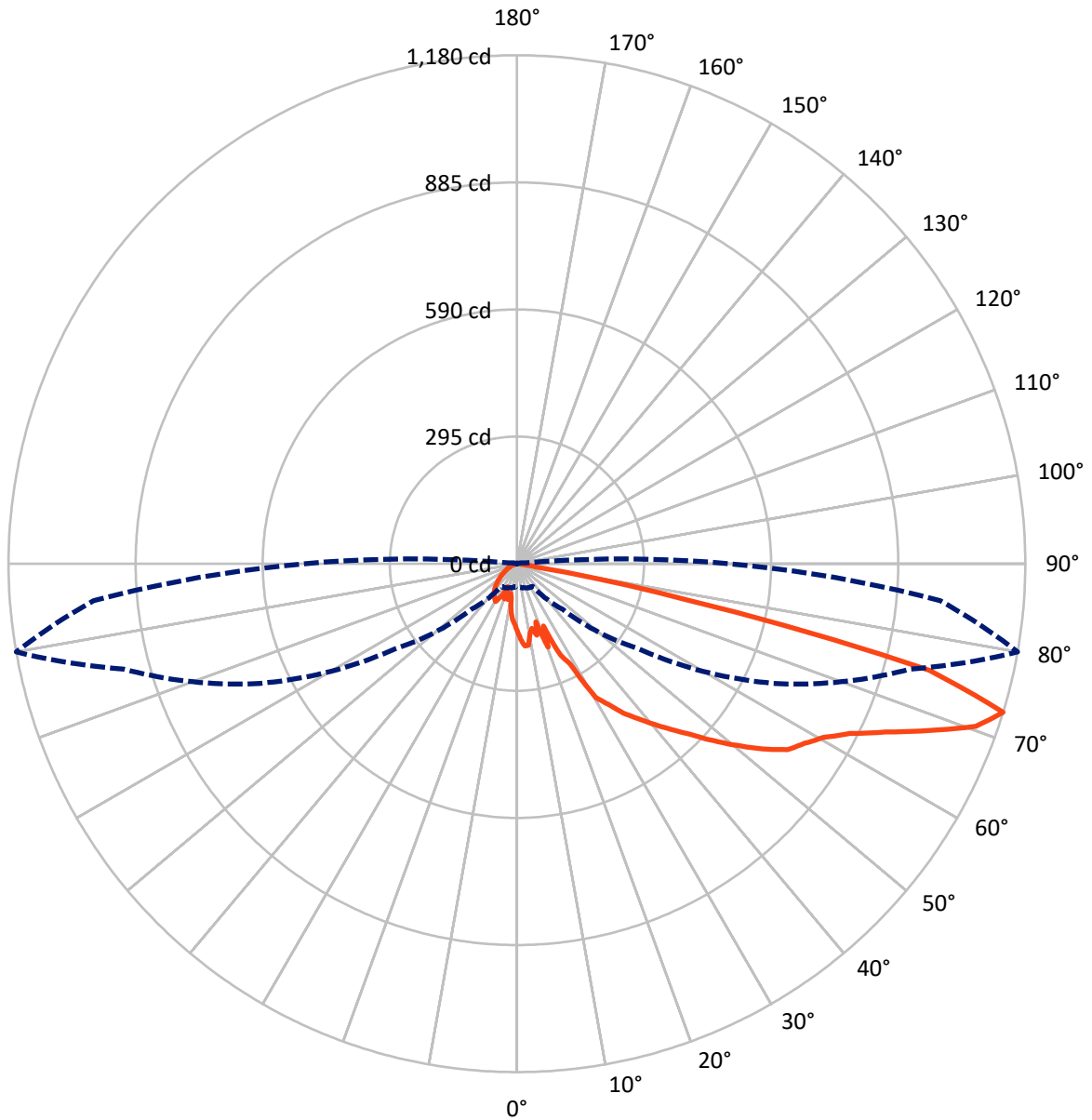
× Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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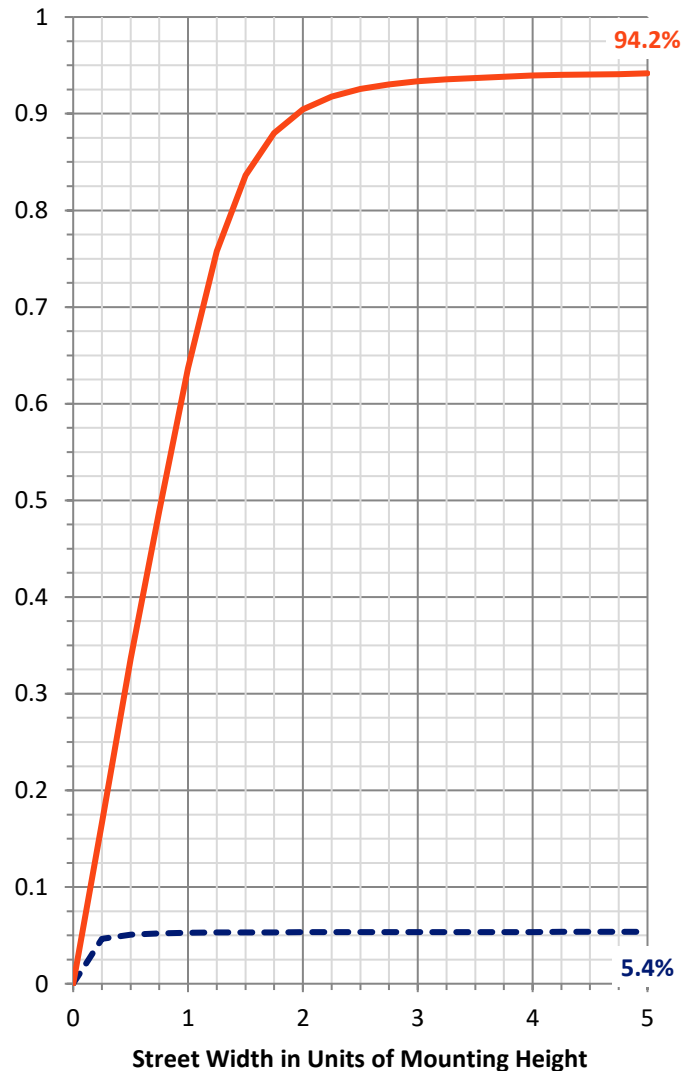
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.5	2.4	58.9
	% Fixture	5.4	0.2	5.6
Street Side	Lumens	983.0	1.6	984.5
	% Fixture	94.2	0.2	94.4
Total	Lumens	1039.5	4.0	1043.5
	% Fixture	99.6	0.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	1.2
10°-20°	31.1	3.0
20°-30°	56.9	5.5
30°-40°	120.5	11.5
40°-50°	204.8	19.6
50°-60°	249.2	23.9
60°-70°	223.1	21.4
70°-80°	136.5	13.1
80°-90°	4.6	0.4
90°-100°	0.8	0.1
100°-110°	0.7	0.1
110°-120°	0.4	0.0
120°-130°	0.5	0.0
130°-140°	0.6	0.1
140°-150°	0.5	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1039.5	99.6
0°-180°	1043.5	100.0



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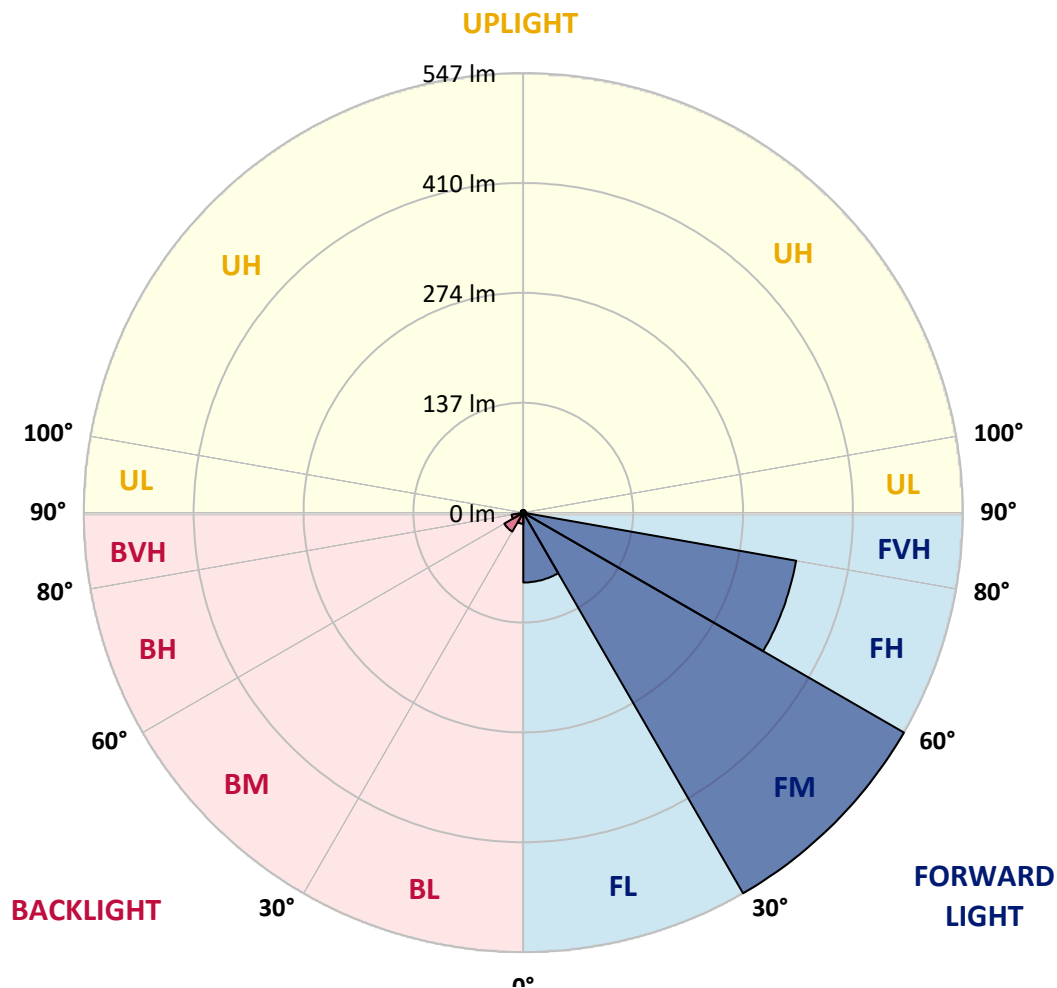
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	87.0	8.3			
FM	(30°-60°)	547.2	52.4			
FH	(60°-80°)	344.8	33.0			G0/660
FVH	(80°-90°)	4.0	0.4			G0/10
BL	(0°-30°)	13.9	1.3	B0/110		
BM	(30°-60°)	27.2	2.6	B0/220		
BH	(60°-80°)	14.8	1.4	B0/110		G0/110
BVH	(80°-90°)	0.6	0.1			G0/10
UL	(90°-100°)	0.8	0.1		U1/10	
UH	(100°-180°)	3.2	0.3		U1/10	

BUG Rating: B0-U1-G0

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	157	157	157	157	157	157	157	157	157	157	157
2.5°	191	196	203	210	209	207	203	196	182	176	167
5°	211	210	207	204	202	196	190	211	202	192	179
7.5°	185	195	218	221	220	217	208	195	203	191	168
10°	234	232	232	234	191	226	172	161	149	165	150
12.5°	193	197	229	240	234	200	179	176	153	154	137
15°	220	220	225	218	166	208	167	153	183	172	177
17.5°	174	173	182	199	198	136	201	173	171	142	131
20°	221	220	224	168	193	219	193	159	212	207	199
22.5°	186	187	186	214	185	222	182	229	165	157	140
25°	244	244	246	194	219	183	229	167	249	235	219
27.5°	251	239	206	214	210	258	212	229	263	264	264
30°	273	272	271	249	219	236	252	279	355	360	332
32.5°	366	367	331	261	250	291	278	331	369	389	351
35°	434	428	406	324	263	304	307	351	392	426	373
37.5°	525	514	495	376	301	331	320	375	419	456	396
40°	590	586	564	446	340	347	333	408	439	490	419
42.5°	643	639	622	501	395	372	351	440	465	526	446
45°	676	671	662	553	439	409	376	461	500	565	479
47.5°	689	688	686	597	473	441	404	479	547	614	515
50°	675	677	695	626	499	469	440	500	591	663	551
52.5°	572	585	655	635	511	486	473	525	630	714	601
55°	417	421	527	578	520	493	494	551	672	762	636
57.5°	328	329	376	465	491	497	509	574	696	787	660
60°	263	271	294	356	416	493	512	585	704	818	696
62.5°	199	201	226	261	325	458	503	597	717	868	752
65°	143	144	164	189	243	393	496	624	757	941	825
67.5°	100	101	112	126	162	320	472	657	812	1033	906
70°	72	73	80	87	103	228	422	681	884	1130	986
72.5°	53	54	58	62	64	150	343	657	945	1180	986
75°	24	25	42	45	43	96	247	524	891	989	731
77.5°	19	20	21	34	28	49	121	224	466	405	232
80°	12	13	16	17	15	27	38	39	82	45	23
82.5°	5	6	8	13	13	14	8	10	10	10	7
85°	0	0	4	7	4	2	4	5	4	4	3
87.5°	0	0	0	0	1	1	2	2	2	1	1
90°	0	0	0	0	1	1	1	2	1	1	1
92.5°	0	0	0	0	1	1	1	2	1	1	1
95°	0	0	0	0	0	1	1	1	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	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°	65°	75°	80°	85°
112.5°	0	0	0	0	0	0	1	1	1	1	1
115°	0	0	0	0	0	0	0	1	1	1	1
117.5°	0	0	0	0	0	0	0	0	1	1	1
120°	0	0	0	0	0	0	0	0	1	1	1
122.5°	0	0	0	0	0	0	0	0	1	1	1
125°	0	0	0	0	0	0	0	0	1	1	1
127.5°	0	0	0	0	0	0	0	0	1	1	1
130°	0	0	0	0	0	0	0	0	1	1	1
132.5°	0	0	0	0	0	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	0	1	1	1	1	1	1	1
142.5°	0	0	0	0	1	1	1	1	1	1	1
145°	0	0	0	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	0	1	1	1
160°	0	0	0	0	1	1	1	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°	157	157	157	157	157	157	157	157	157	157	157
2.5°	158	148	134	124	115	107	100	97	83	85	90
5°	159	141	117	96	71	65	60	58	55	54	55
7.5°	142	121	100	69	60	52	45	39	36	33	30
10°	123	99	60	48	37	34	24	27	26	25	25
12.5°	109	86	54	41	27	22	21	20	18	17	17
15°	148	112	60	27	18	17	14	13	15	15	15
17.5°	113	92	52	22	15	10	12	13	13	11	11
20°	164	121	52	14	12	11	10	8	10	10	10
22.5°	114	81	34	15	10	9	6	8	8	7	7
25°	176	122	39	10	9	7	7	6	7	7	7
27.5°	200	144	33	11	8	7	5	6	5	5	5
30°	270	174	28	11	7	5	5	4	5	5	5
32.5°	282	172	21	11	7	5	4	4	5	5	5
35°	296	168	17	10	6	4	4	4	4	4	4
37.5°	311	161	15	9	5	4	3	4	4	4	4
40°	326	151	13	8	5	3	3	3	4	3	3
42.5°	341	140	12	7	4	3	2	3	3	3	3
45°	359	127	11	6	4	2	2	2	2	2	2
47.5°	376	112	11	5	3	2	1	2	2	2	2
50°	401	98	10	5	3	1	1	1	1	1	1
52.5°	428	86	9	4	2	1	1	1	1	0	0
55°	446	72	8	4	2	1	0	1	0	0	0
57.5°	460	63	7	3	1	1	0	1	0	0	0
60°	486	54	6	3	1	0	0	1	0	0	0
62.5°	521	45	6	3	1	0	0	1	0	0	0
65°	553	38	5	3	1	0	0	1	0	0	0
67.5°	581	31	5	2	1	0	0	1	0	0	0
70°	575	27	4	2	1	0	1	1	1	0	0
72.5°	492	20	3	2	1	0	1	1	1	0	0
75°	265	11	3	2	1	0	1	1	1	0	0
77.5°	53	7	2	1	1	0	1	2	1	0	0
80°	10	4	1	1	1	0	2	2	1	0	0
82.5°	4	2	1	1	1	0	2	2	1	0	0
85°	2	1	1	1	1	0	2	2	1	1	0
87.5°	1	1	1	1	1	0	2	1	1	1	0
90°	1	1	1	1	1	0	2	1	1	1	0
92.5°	1	1	1	1	1	0	1	1	1	1	0
95°	1	1	1	1	1	0	1	1	1	1	0
97.5°	1	1	1	1	1	1	1	1	1	1	0
100°	1	1	1	1	1	1	1	1	1	0	0
102.5°	1	1	1	1	1	1	1	1	1	0	0
105°	1	1	1	1	1	1	1	1	1	0	0
107.5°	1	1	1	1	1	1	0	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	1	1	1	1
125°	1	1	1	1	1	1	0	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	0	0
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	0
147.5°	1	1	1	1	1	1	0	1	1	0	1
150°	1	1	1	1	1	1	0	1	1	0	0
152.5°	1	1	1	1	1	1	0	1	1	0	0
155°	1	1	1	1	1	0	0	1	1	0	0
157.5°	1	1	1	1	1	0	0	0	0	0	0
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	0	0	1	1	1	1	1
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110°	1	1	1	1	1	1	0	1	0	0	0
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(END OF REPORT)