

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: G3-2106-280-17

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

Test Date: 6/26/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-17
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-A
Description: SDL (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE II R 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: 960.5 lumens
Efficiency: N/A
Efficacy: 30.7 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

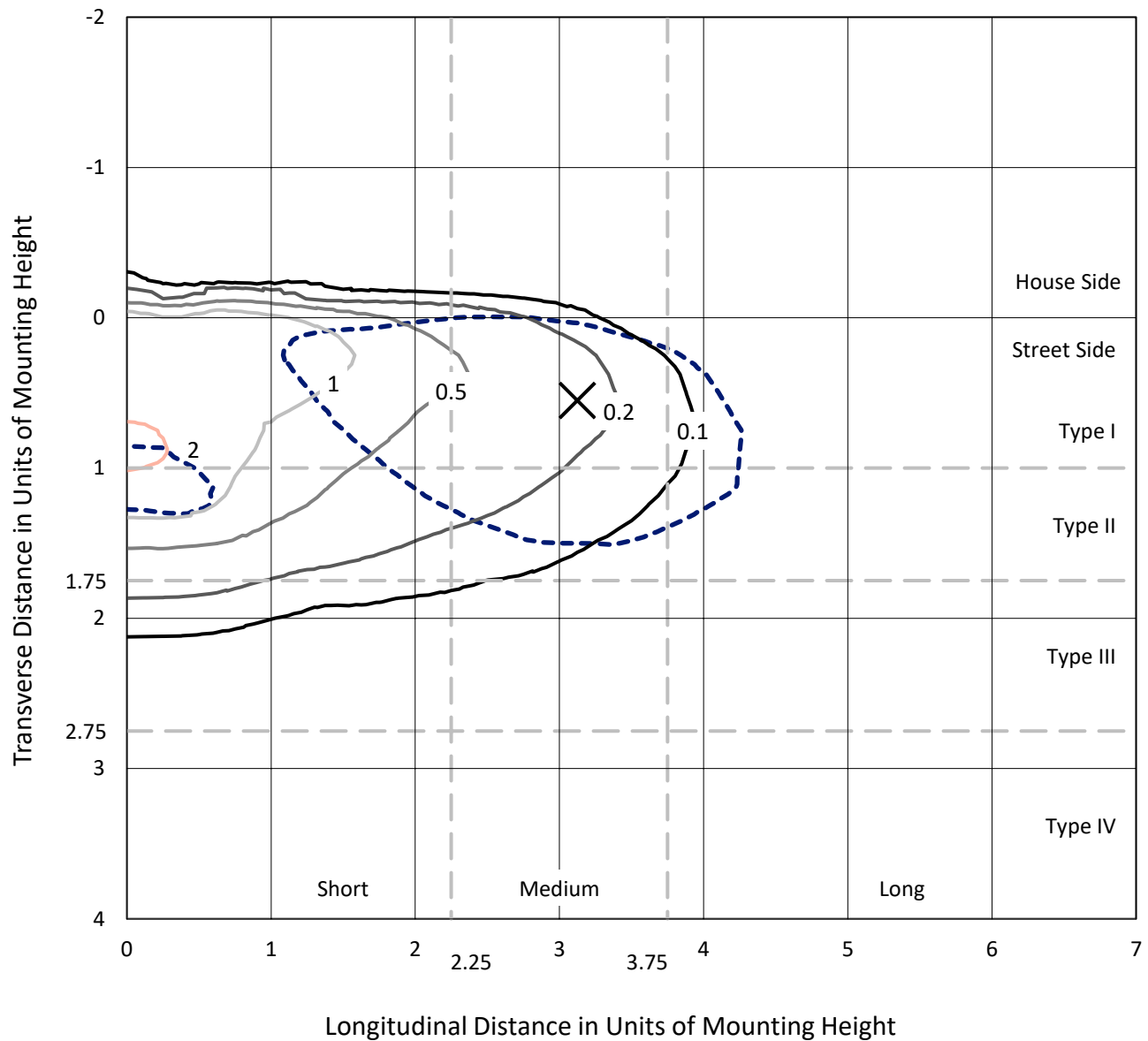


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

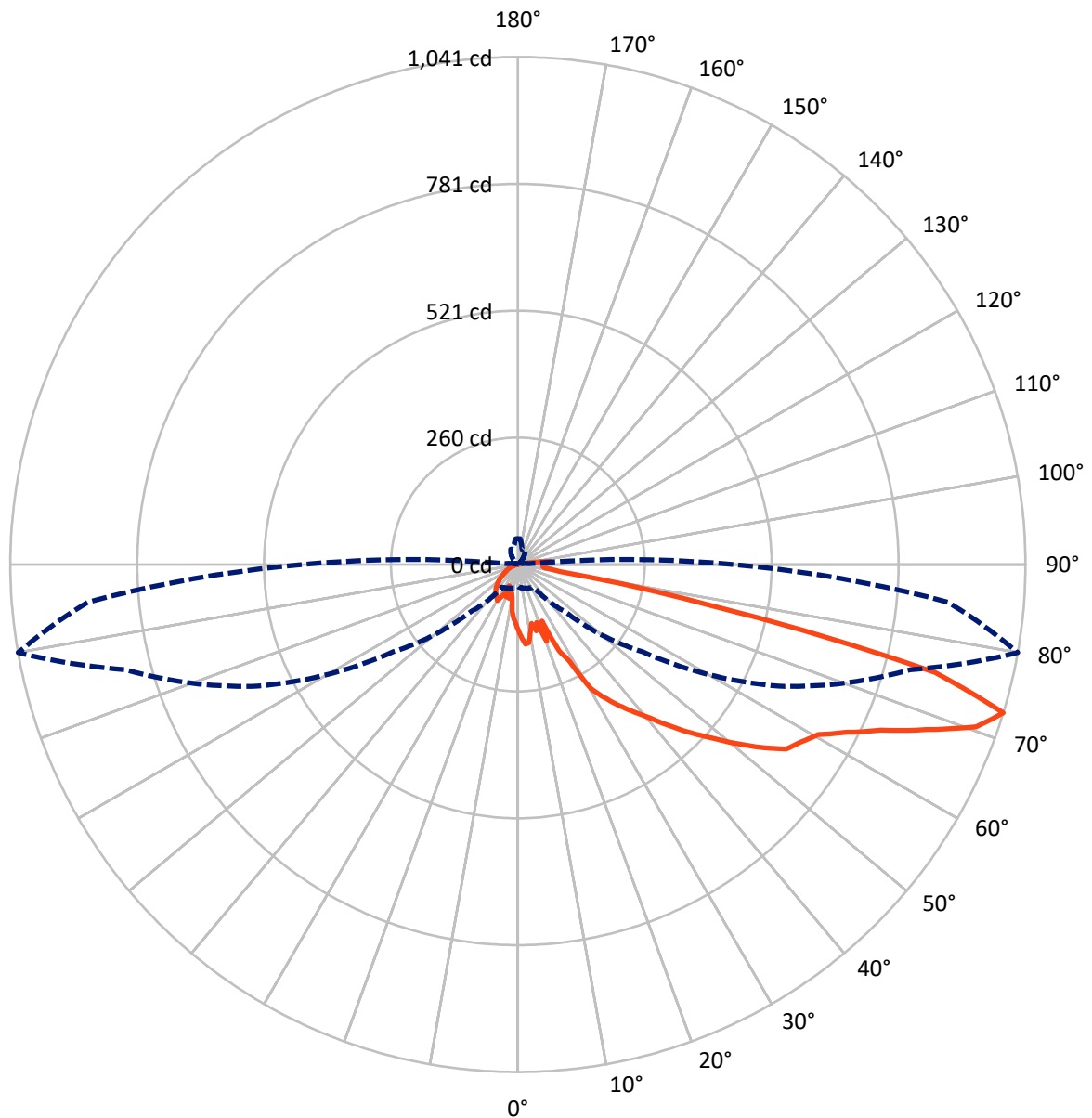


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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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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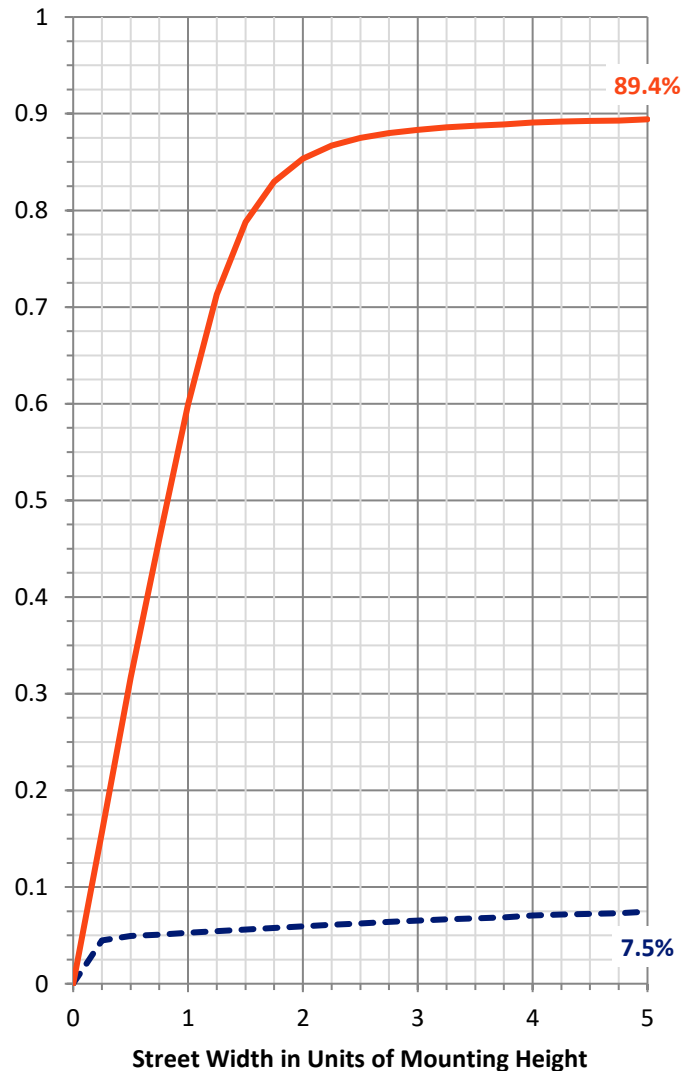
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.9	9.0	87.9
	% Fixture	8.2	0.9	9.2
Street Side	Lumens	861.9	10.6	872.5
	% Fixture	89.7	1.1	90.8
Total	Lumens	940.8	19.7	960.5
	% Fixture	98.0	2.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	1.2
10°-20°	26.5	2.8
20°-30°	48.2	5.0
30°-40°	101.3	10.5
40°-50°	176.3	18.4
50°-60°	218.1	22.7
60°-70°	201.4	21.0
70°-80°	135.1	14.1
80°-90°	22.8	2.4
90°-100°	13.5	1.4
100°-110°	2.6	0.3
110°-120°	1.4	0.1
120°-130°	1.1	0.1
130°-140°	0.5	0.1
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	940.8	98.0
0°-180°	960.5	100.0



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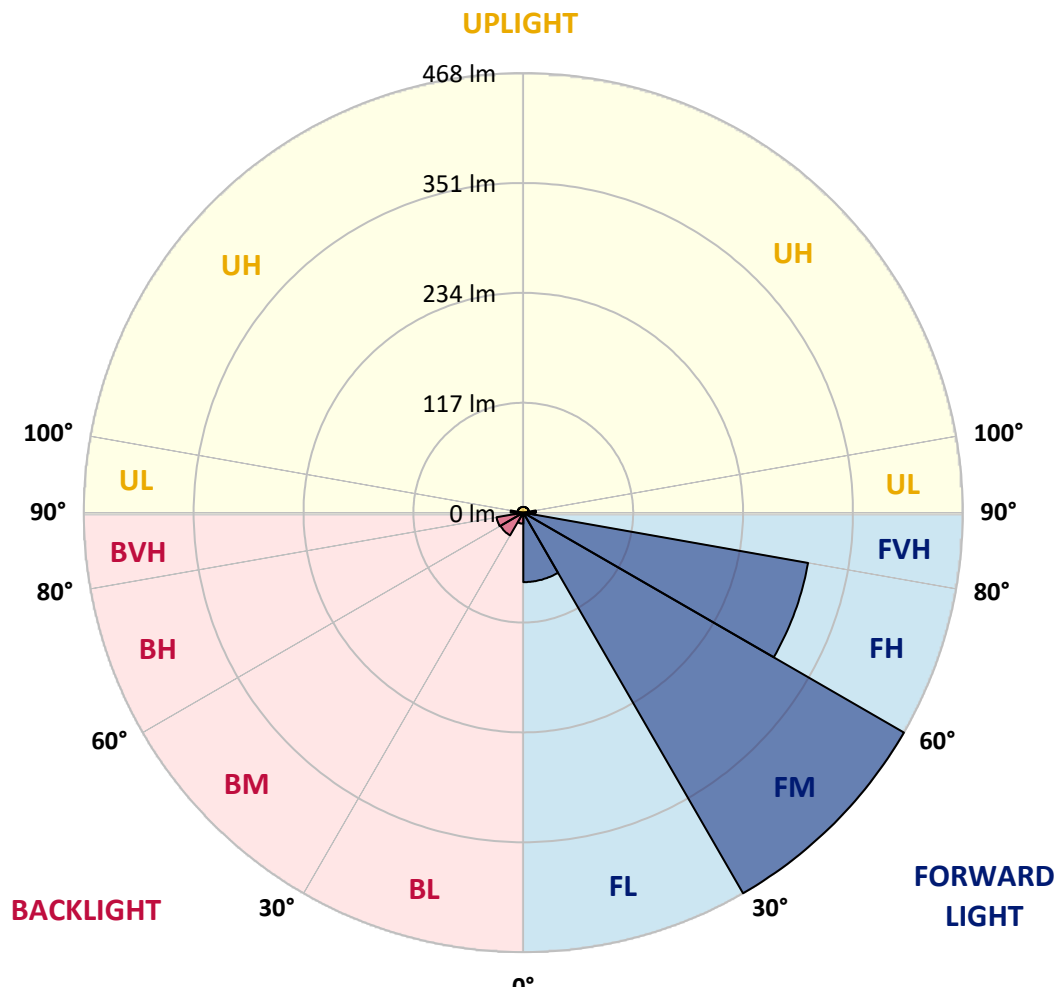
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.9	7.7			
FM	(30°-60°)	467.7	48.7			
FH	(60°-80°)	307.7	32.0			G0/660
FVH	(80°-90°)	12.6	1.3			G1/100
BL	(0°-30°)	11.8	1.2	B0/110		
BM	(30°-60°)	28.0	2.9	B0/220		
BH	(60°-80°)	28.9	3.0	B0/110		G0/110
BVH	(80°-90°)	10.3	1.1			G1/100
UL	(90°-100°)	13.5	1.4		U2/50	
UH	(100°-180°)	6.2	0.6		U1/10	

BUG Rating: B0-U2-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	135	135	135	135	135	135	135	135	135	135	135
2.5°	170	173	175	181	180	178	175	166	156	150	144
5°	183	179	175	175	174	168	164	182	174	164	154
7.5°	165	179	188	190	188	185	179	168	174	162	145
10°	196	194	191	195	180	196	149	139	128	141	130
12.5°	162	171	196	202	194	166	156	151	135	124	118
15°	181	182	186	192	142	173	139	155	150	141	148
17.5°	146	145	160	166	164	118	164	144	152	125	109
20°	183	182	185	163	164	175	171	149	173	168	163
22.5°	158	154	155	176	176	178	178	184	135	126	115
25°	204	203	204	173	183	176	190	165	202	195	178
27.5°	211	210	172	185	184	205	179	191	217	223	225
30°	229	227	225	210	187	189	206	237	293	296	274
32.5°	311	306	285	223	203	234	245	271	306	325	291
35°	371	361	343	270	216	248	260	290	331	354	313
37.5°	445	438	417	318	248	272	271	316	349	382	333
40°	502	496	479	380	283	288	283	347	370	412	359
42.5°	546	542	527	424	333	312	296	371	399	450	384
45°	578	570	563	472	372	346	321	398	433	491	415
47.5°	590	586	583	508	399	375	342	422	478	530	448
50°	580	576	590	532	424	401	374	436	513	576	483
52.5°	489	504	561	542	436	418	400	455	551	623	529
55°	355	364	440	491	447	422	421	480	588	668	563
57.5°	287	284	318	401	425	426	439	506	609	686	579
60°	233	232	251	303	359	422	448	521	615	708	608
62.5°	173	174	196	223	279	397	443	535	629	758	659
65°	125	126	141	161	209	337	436	557	665	819	722
67.5°	87	89	97	110	142	278	422	586	716	904	805
70°	63	63	69	76	88	203	377	607	784	997	879
72.5°	45	47	50	53	57	137	312	590	833	1041	886
75°	21	22	35	39	39	92	235	472	784	884	687
77.5°	17	17	18	29	27	54	122	224	459	410	238
80°	11	11	14	14	14	33	57	65	101	86	66
82.5°	5	5	7	11	12	22	34	39	45	55	55
85°	1	1	4	6	5	13	30	34	40	51	51
87.5°	1	1	0	0	2	10	27	29	37	51	50
90°	1	1	0	0	1	8	26	29	37	54	53
92.5°	2	2	0	0	1	6	25	31	40	60	58
95°	3	3	1	0	1	6	23	30	43	67	62
97.5°	4	4	1	1	1	5	16	22	21	34	35
100°	4	4	1	1	1	2	8	11	2	3	3
102.5°	4	4	1	1	1	1	2	6	1	3	3
105°	4	4	1	1	1	1	1	1	1	3	4
107.5°	4	4	1	1	1	1	1	1	1	3	4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
112.5°	2	2	1	1	1	1	1	1	2	3	4
115°	0	0	0	1	0	1	1	1	2	3	4
117.5°	0	0	0	0	0	0	1	1	3	4	5
120°	0	0	0	0	0	0	0	1	3	5	6
122.5°	0	0	0	0	0	0	0	1	3	5	6
125°	0	0	0	0	0	0	0	1	3	4	5
127.5°	0	0	0	0	0	0	0	1	2	4	4
130°	0	0	0	0	0	0	0	1	2	3	3
132.5°	0	0	0	0	0	0	0	1	2	3	3
135°	0	0	0	0	0	0	0	0	1	1	2
137.5°	0	0	0	0	0	0	0	0	0	0	1
140°	0	0	0	0	0	0	0	0	0	0	1
142.5°	0	0	0	0	0	0	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	0	1	1	0	0
155°	1	1	0	1	0	0	0	0	1	2	1
157.5°	1	1	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°	135	135	135	135	135	135	135	135	135	135	135
2.5°	135	127	115	107	99	90	87	80	75	71	75
5°	137	121	100	84	62	56	53	50	48	48	47
7.5°	122	107	86	60	52	45	39	34	32	29	28
10°	105	86	52	41	33	29	24	23	22	20	21
12.5°	97	77	44	35	24	19	17	17	15	15	15
15°	123	93	51	26	16	14	12	12	13	13	13
17.5°	94	77	44	18	13	9	10	11	11	10	10
20°	134	98	43	13	10	9	8	7	9	9	9
22.5°	93	66	28	13	8	8	6	7	7	6	6
25°	144	99	33	9	8	6	6	5	6	6	6
27.5°	184	121	27	9	7	6	4	5	4	4	4
30°	222	146	24	10	6	4	4	4	5	4	4
32.5°	236	144	18	10	6	4	3	4	4	4	4
35°	249	142	14	9	5	4	3	3	4	4	4
37.5°	262	137	13	8	5	3	3	3	4	12	11
40°	279	131	12	7	4	3	2	7	10	10	10
42.5°	295	124	11	6	4	2	2	5	9	14	14
45°	313	115	10	6	3	2	2	8	11	12	12
47.5°	332	103	10	5	3	2	5	9	10	15	15
50°	356	93	9	4	2	1	9	8	12	14	13
52.5°	379	83	9	4	2	1	9	9	14	17	17
55°	398	71	8	4	2	2	10	11	11	13	13
57.5°	407	61	7	3	2	4	12	15	11	14	13
60°	429	52	6	3	2	4	14	19	15	17	17
62.5°	458	46	6	4	1	5	13	21	16	22	22
65°	489	39	5	3	2	6	13	25	21	28	28
67.5°	520	34	5	4	2	8	16	29	25	34	35
70°	517	29	5	4	2	9	20	32	29	42	42
72.5°	443	22	4	5	2	10	23	35	32	53	53
75°	240	14	5	5	3	11	24	38	34	54	55
77.5°	74	10	5	6	5	12	25	40	36	54	55
80°	41	8	5	6	7	14	28	43	38	52	52
82.5°	37	6	5	7	9	16	30	41	33	41	39
85°	35	5	5	7	9	16	28	35	27	30	30
87.5°	35	4	6	7	10	14	23	29	22	24	24
90°	36	3	6	8	10	11	19	23	18	19	19
92.5°	39	3	7	9	9	9	14	19	15	14	14
95°	41	3	9	10	8	7	11	15	10	9	9
97.5°	22	3	9	10	7	5	8	11	7	5	4
100°	3	2	8	10	6	3	6	8	4	2	2
102.5°	3	1	7	9	5	1	4	5	3	1	1
105°	3	1	3	7	3	1	1	3	2	1	1
107.5°	3	1	1	3	2	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	4	2	1	2	1	1	1	1	1	4	4
115°	4	2	1	1	1	1	1	1	1	4	4
117.5°	4	2	1	1	1	1	1	1	2	5	5
120°	5	2	1	1	1	1	1	1	2	5	5
122.5°	5	3	1	1	1	0	1	1	2	5	5
125°	4	2	1	1	1	0	0	1	2	4	5
127.5°	4	2	1	1	1	0	0	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°	1	1	1	1	1	0	1	0	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	0	1	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	1
147.5°	1	1	1	1	1	0	0	0	0	0	1
150°	1	1	1	1	1	0	0	0	0	0	1
152.5°	0	1	1	1	1	0	0	0	0	0	0
155°	1	1	1	1	1	0	0	0	0	0	0
157.5°	0	0	1	1	1	0	0	0	0	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	3	4
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110° | 3 1 1 2 1 1 1 1 1 3 3



(END OF REPORT)