

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: G3-2106-280-6

Luminaire Tested: **SDL-PA1-20-AMB-U-T3-HSS-A**

Test Date: 6/29/2021

Test Information

Test Method: LM-79-08
Report Number: G3-2106-280-6
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/29/2021
Issue Date: 6/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: SDL-PA1-20-AMB-U-T3-HSS-A
Description: SDL, (1) AMBER, 500MA LIGHT ENGINE WITH 24 LEDS EACH AND TYPE III OPTICS, 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: 873.4 lumens
Efficiency: N/A
Efficacy: 27.8 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

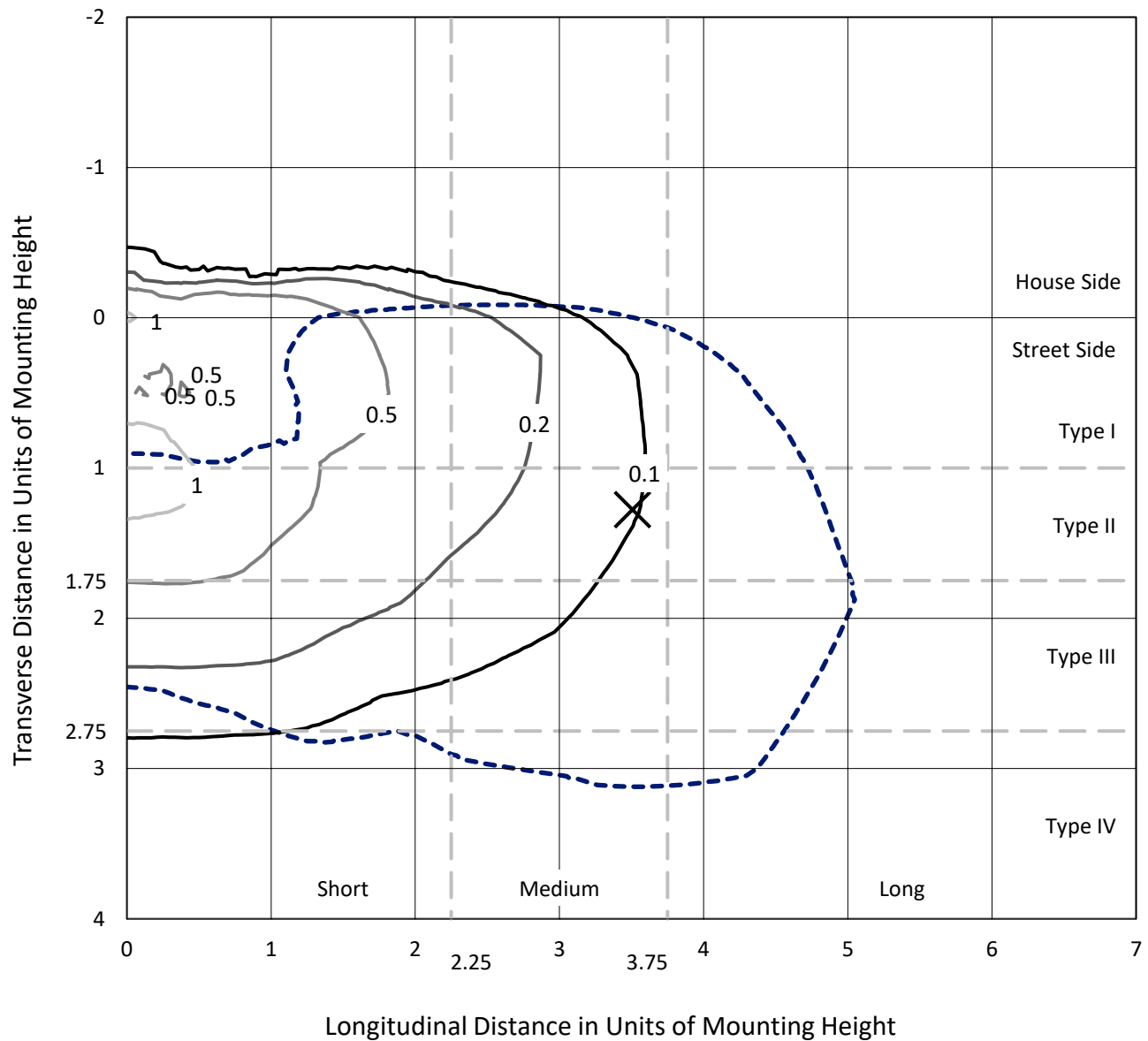
Input Watts (W): 31.4
Input Voltage (V): 120.0
Input Current (Ain): 0.266
Voltage Rise (V): NR
Power Factor: 0.9809
Total Harmonic Distortion (THDi): 17.6%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.2
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

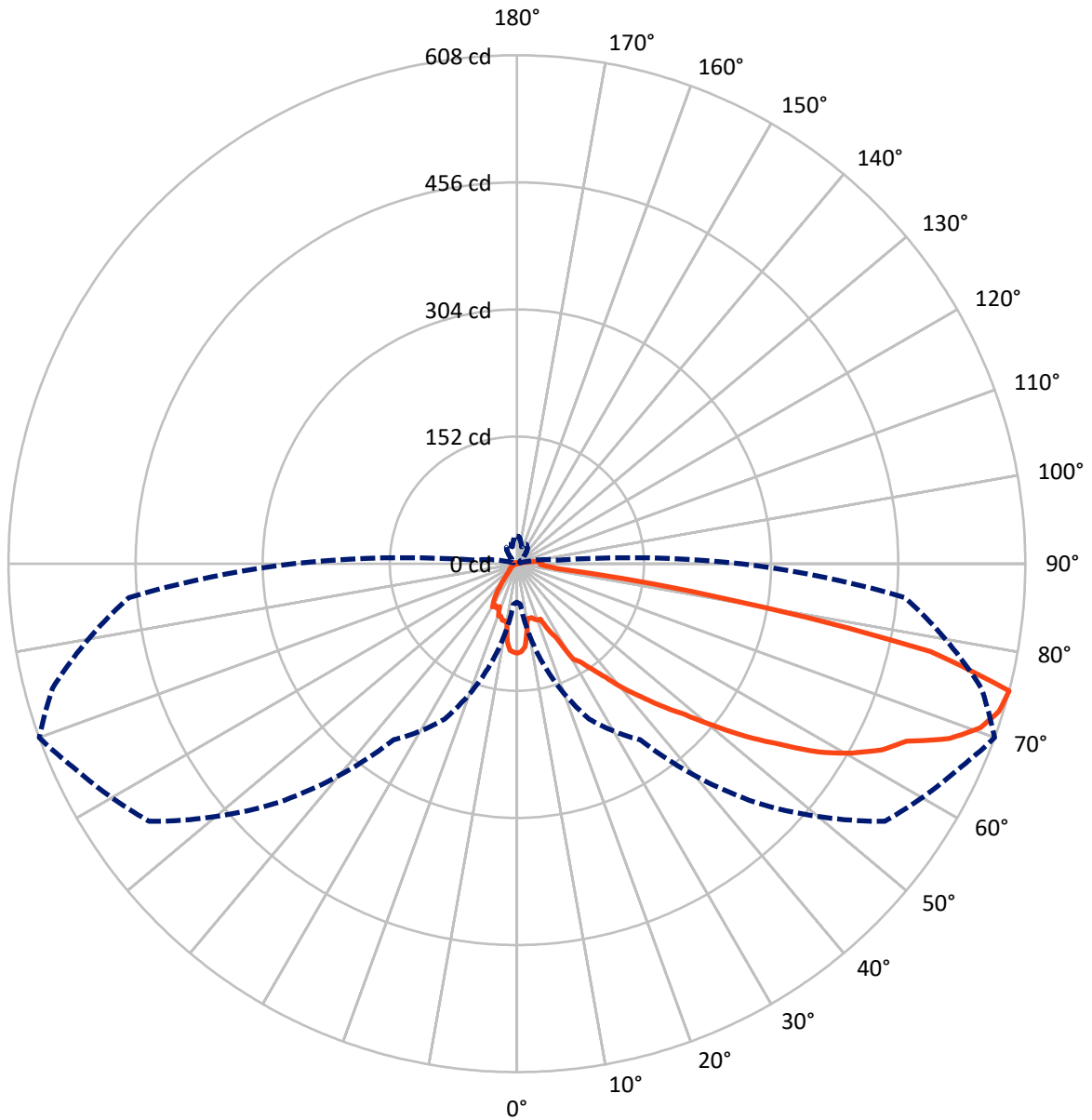
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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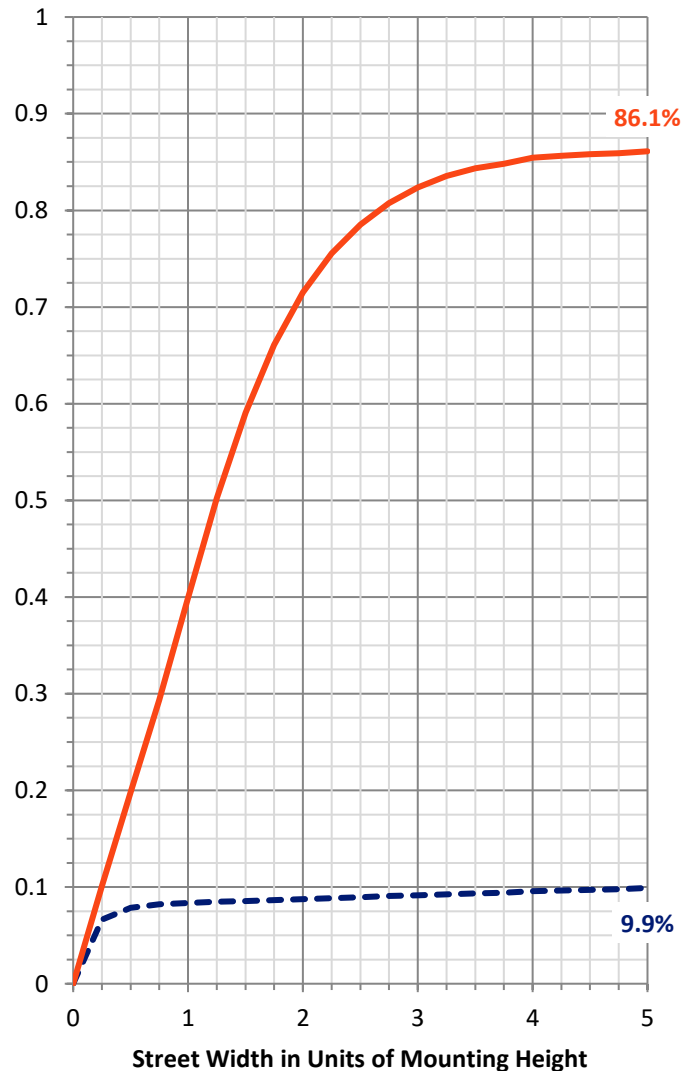
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	95.5	12.7	108.1
	% Fixture	10.9	1.5	12.4
Street Side	Lumens	755.5	9.7	765.2
	% Fixture	86.5	1.1	87.6
Total	Lumens	851.0	22.4	873.4
	% Fixture	97.4	2.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.9
10°-20°	16.1	1.8
20°-30°	26.0	3.0
30°-40°	55.6	6.4
40°-50°	111.1	12.7
50°-60°	187.8	21.5
60°-70°	235.7	27.0
70°-80°	182.2	20.9
80°-90°	28.4	3.2
90°-100°	17.2	2.0
100°-110°	3.3	0.4
110°-120°	1.0	0.1
120°-130°	0.6	0.1
130°-140°	0.3	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°	851.0	97.4
0°-180°	873.4	100.0



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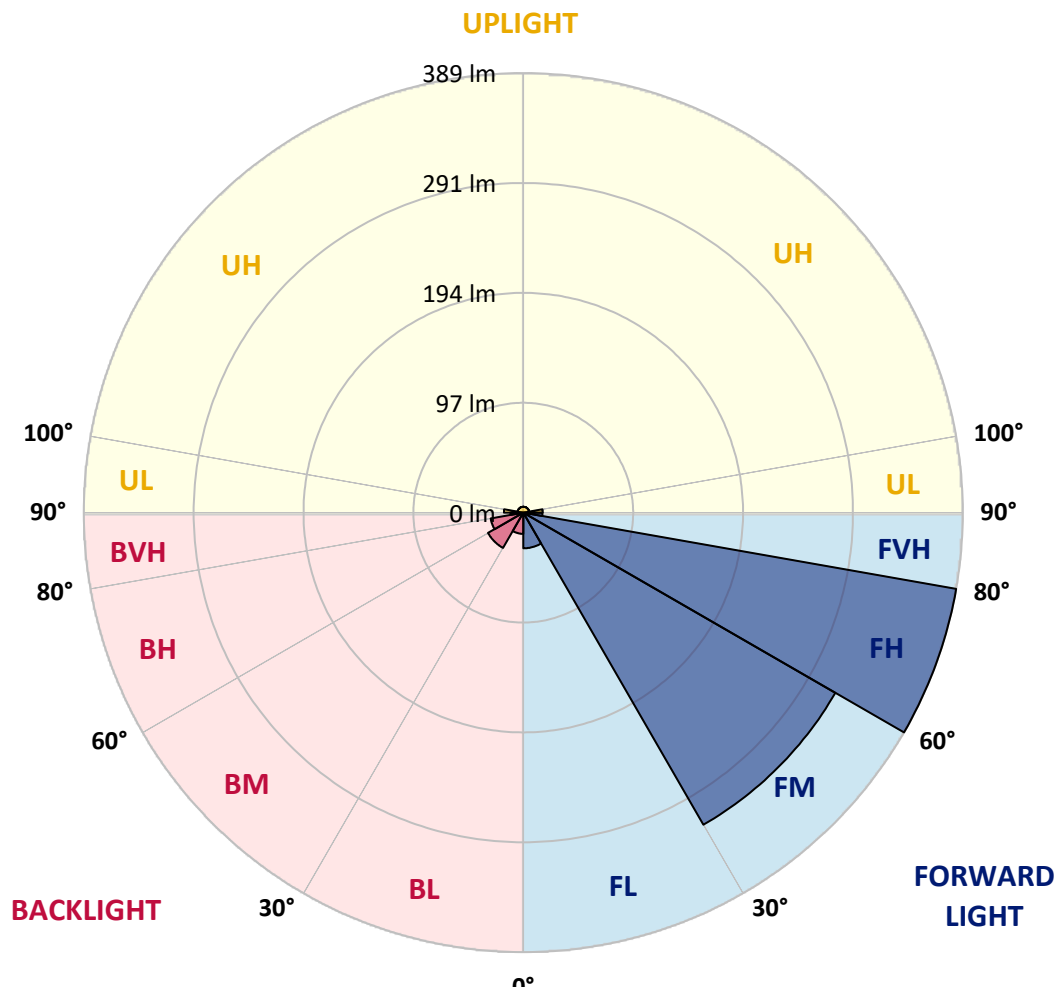
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	31.5	3.6			
FM	(30°-60°)	318.5	36.5			
FH	(60°-80°)	388.5	44.5			G0/660
FVH	(80°-90°)	17.0	1.9			G1/100
BL	(0°-30°)	18.7	2.1	B0/110		
BM	(30°-60°)	36.0	4.1	B0/220		
BH	(60°-80°)	29.3	3.4	B0/110		G0/110
BVH	(80°-90°)	11.4	1.3			G1/100
UL	(90°-100°)	17.2	2.0		U2/50	
UH	(100°-180°)	5.2	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°	70°	75°	85°
0°	107	107	107	107	107	107	107	107	107	107	107
2.5°	88	87	91	95	100	101	103	105	105	105	105
5°	82	81	82	82	84	85	86	94	100	103	104
7.5°	67	67	72	75	79	81	83	84	84	93	94
10°	74	75	75	75	76	72	64	66	67	68	83
12.5°	64	63	65	73	69	62	54	66	67	62	73
15°	74	73	72	72	52	63	56	63	67	73	86
17.5°	62	61	58	65	61	48	63	61	70	67	64
20°	73	72	71	62	53	65	63	63	72	81	94
22.5°	64	62	58	63	61	66	70	78	72	61	68
25°	71	71	72	66	65	67	72	70	88	95	106
27.5°	77	77	64	62	69	76	73	91	100	105	133
30°	92	91	86	79	67	72	87	111	132	146	158
32.5°	151	147	126	92	78	89	98	131	140	155	168
35°	190	190	174	129	91	96	109	143	155	170	177
37.5°	221	224	221	159	117	108	116	157	172	187	189
40°	258	256	248	195	145	129	130	174	196	211	204
42.5°	314	308	288	228	175	159	148	192	217	230	226
45°	374	366	344	278	212	194	172	215	243	259	247
47.5°	417	407	392	325	261	232	198	237	269	288	272
50°	455	441	425	375	314	282	229	264	304	329	299
52.5°	481	460	455	414	356	339	267	298	343	364	331
55°	458	459	466	443	384	368	301	336	381	403	350
57.5°	441	443	465	460	410	397	337	379	425	439	368
60°	419	427	461	473	434	426	373	425	460	463	390
62.5°	386	393	440	479	446	452	411	465	490	489	427
65°	352	355	396	457	442	469	438	495	512	520	477
67.5°	308	311	345	408	424	468	469	538	558	552	532
70°	269	270	296	354	376	470	499	568	588	579	567
72.5°	202	212	250	297	327	442	524	584	603	592	570
75°	46	49	126	205	257	404	537	582	608	575	466
77.5°	23	24	29	75	124	274	480	508	506	440	245
80°	10	10	12	21	40	81	235	243	250	163	66
82.5°	5	5	7	11	26	34	66	59	48	44	37
85°	1	1	3	5	10	23	36	35	34	34	34
87.5°	1	1	1	1	5	20	30	26	28	29	32
90°	1	0	0	0	5	19	31	27	28	29	34
92.5°	1	0	0	0	4	19	32	27	30	31	37
95°	1	1	0	0	4	20	34	28	30	32	40
97.5°	1	1	0	0	1	17	29	22	17	14	26
100°	2	2	0	0	1	7	21	12	7	2	2
102.5°	3	3	1	1	1	2	9	7	4	1	2
105°	3	3	1	1	1	1	4	3	2	1	2
107.5°	4	4	1	1	1	1	1	1	1	1	2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	2	2	0	1	0	1	0	1	1	1	2
115°	0	0	0	0	0	1	0	1	1	1	2
117.5°	0	0	0	0	0	0	0	1	1	1	3
120°	0	0	0	0	0	0	0	1	1	2	3
122.5°	0	0	0	0	0	0	0	0	1	1	3
125°	0	0	0	0	0	0	0	0	1	1	2
127.5°	0	0	0	0	0	0	0	0	1	1	2
130°	0	0	0	0	0	0	0	0	1	1	2
132.5°	0	0	0	0	0	0	0	0	1	1	1
135°	0	0	0	0	0	0	0	0	0	0	1
137.5°	0	0	0	0	0	0	0	0	0	0	0
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°	1	1	1	0	0	0	0	1	0	0	0
155°	0	0	0	0	0	0	0	0	1	1	1
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	107	107	107	107	107	107	107	107	107	107	107
2.5°	106	106	106	106	106	106	106	106	107	107	107
5°	104	105	104	104	92	88	87	87	88	88	88
7.5°	93	94	98	90	87	86	85	85	84	85	85
10°	84	84	74	69	68	77	67	69	66	64	64
12.5°	70	74	69	70	66	56	56	48	43	38	36
15°	87	88	75	65	49	43	31	22	23	23	22
17.5°	65	71	68	63	44	23	17	18	19	19	18
20°	96	95	81	51	31	16	14	13	17	17	17
22.5°	68	67	62	49	19	13	11	15	17	14	13
25°	105	103	85	32	14	11	13	12	15	15	15
27.5°	133	128	84	28	11	12	11	13	12	11	11
30°	153	149	97	22	11	10	11	10	12	11	11
32.5°	163	155	86	17	11	10	10	10	10	10	10
35°	171	159	73	13	10	8	8	8	8	8	8
37.5°	179	169	56	10	7	6	4	4	6	6	6
40°	195	180	41	10	7	6	4	5	5	6	6
42.5°	210	196	29	10	6	4	3	4	5	6	6
45°	230	204	21	9	5	3	3	4	4	6	6
47.5°	251	213	17	8	4	2	2	4	4	6	6
50°	277	219	15	8	4	2	5	3	4	6	6
52.5°	299	222	14	7	3	2	5	4	4	6	6
55°	320	216	13	6	2	2	5	4	4	5	5
57.5°	335	207	12	6	2	2	5	6	4	6	7
60°	358	194	10	5	2	3	6	7	6	7	8
62.5°	374	182	9	5	2	4	7	10	7	9	9
65°	397	170	8	4	2	5	9	13	9	12	12
67.5°	405	155	7	3	2	5	10	16	12	15	15
70°	396	134	5	3	2	7	13	18	15	20	20
72.5°	366	106	5	4	3	8	17	23	17	29	29
75°	268	49	4	4	5	11	22	26	21	32	33
77.5°	123	27	4	4	6	13	25	30	23	35	36
80°	41	19	4	4	7	15	28	32	25	37	38
82.5°	30	17	4	4	9	17	31	34	28	37	39
85°	28	15	4	4	11	19	34	35	27	37	36
87.5°	27	14	4	5	12	21	35	35	28	35	35
90°	29	14	4	5	14	21	35	34	28	34	33
92.5°	30	13	5	5	15	21	34	32	28	31	30
95°	32	12	5	7	17	21	31	29	23	25	25
97.5°	17	8	6	7	12	17	24	21	15	14	14
100°	2	2	7	7	6	7	16	16	9	4	4
102.5°	2	3	6	7	5	3	9	11	7	1	1
105°	2	2	3	5	3	1	3	6	4	1	1
107.5°	3	2	2	2	1	1	1	1	2	1	1



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CANDELA DISTRIBUTION (continued):

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



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110°	3	3	1	1	1	1	1	1	1	1	2
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110°	2	2	1	1	1	1	1	1	1	1	1
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(END OF REPORT)