

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: LUMIERE

Report Number: G2-2408-198-2-SQ

Luminaire Tested: **1237E-SQ-X-12LEDG2-UNV/12-CS**

Test Date: 2024-08-16

**Test Information**

Test Method: LM-79-08  
Report Number: G2-2408-198-2-SQ  
Test Lab: Cooper Lighting Solutions  
Test Date: 2024-08-16  
Issue Date: 8/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1237E-SQ-X-12LEDG2-UNV/12-CS  
Description: Rio 1237 with Eyelid  
Light Source: -  
Ballast/Driver: -

**Summary**

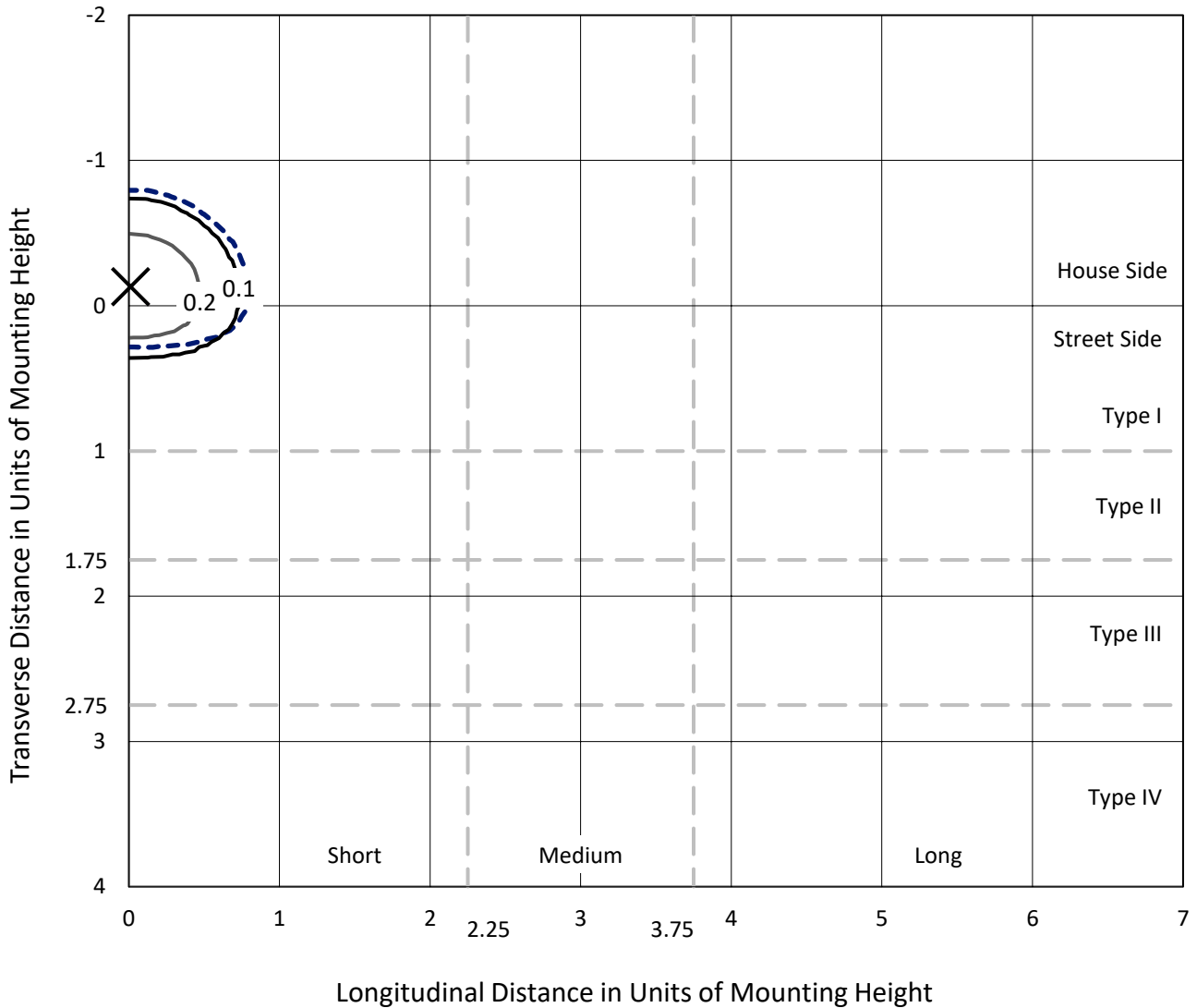
Lumens per Lamp: N/A  
Luminaire Lumens: 282 lumens  
Efficiency: N/A  
Efficacy: 31.9 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type I - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 8.84  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0747  
Voltage Rise (V): NR  
Power Factor: 0.9863  
Total Harmonic Distortion (THDi): 12.4%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.5  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

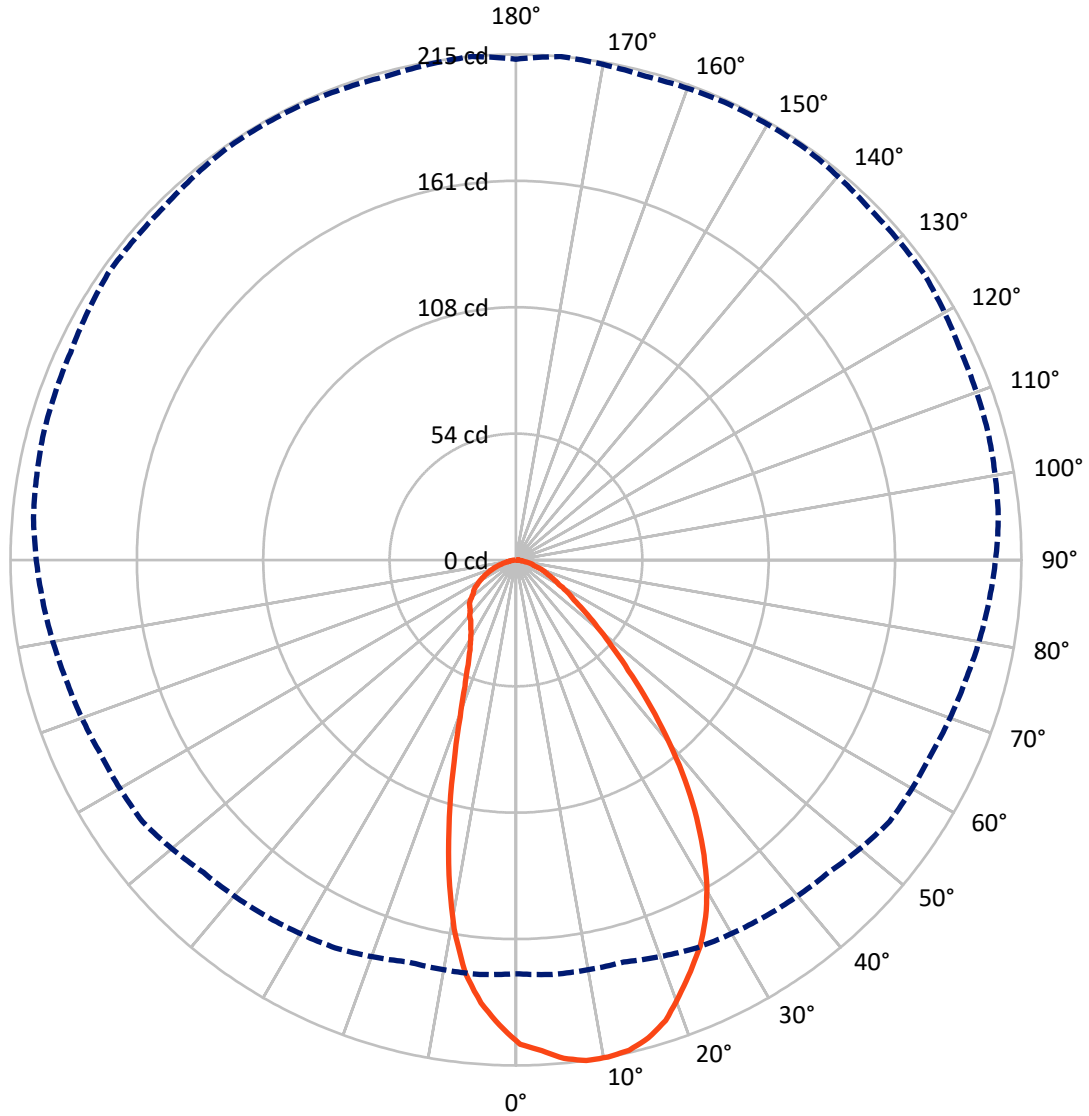
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 175-Deg Lateral    - - - Horizontal Cone Through 7.5-Deg Vertical



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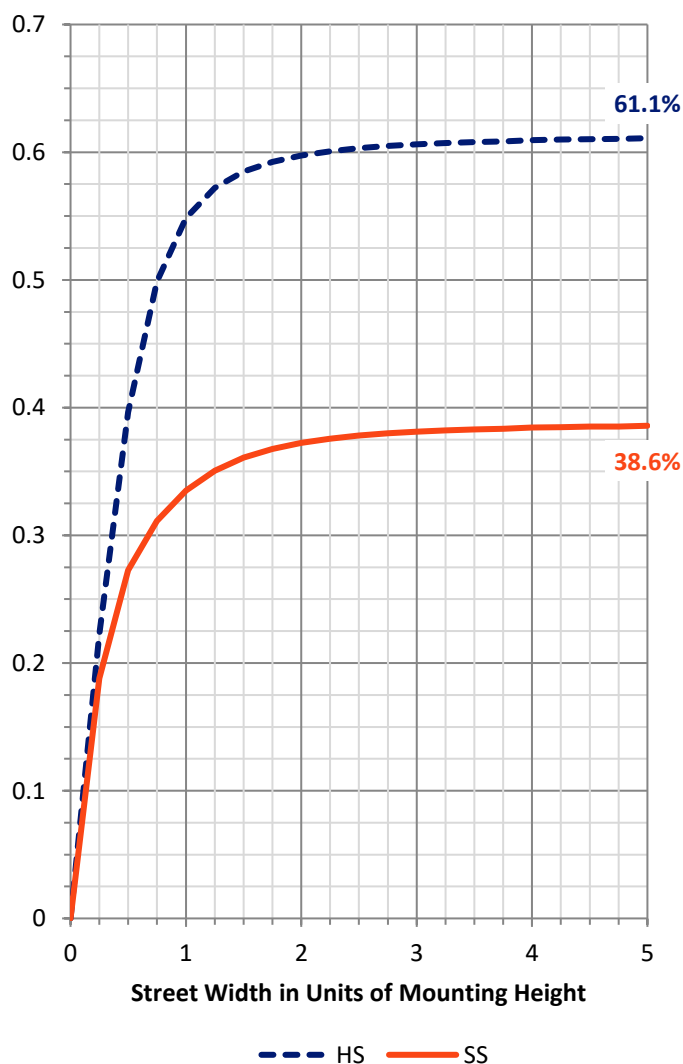
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	173.6	0.0	173.6
	% Fixture	61.5	0.0	61.5
<b>Street Side</b>	Lumens	108.4	0.0	108.4
	% Fixture	38.5	0.0	38.5
<b>Total</b>	Lumens	282.0	0.0	282.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.1	6.8
10°-20°	49.8	17.7
20°-30°	63.2	22.4
30°-40°	59.6	21.1
40°-50°	41.7	14.8
50°-60°	25.1	8.9
60°-70°	14.9	5.3
70°-80°	7.1	2.5
80°-90°	1.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	282.0	100.0
0°-180°	282.0	100.0

**Coefficient of Utilization**

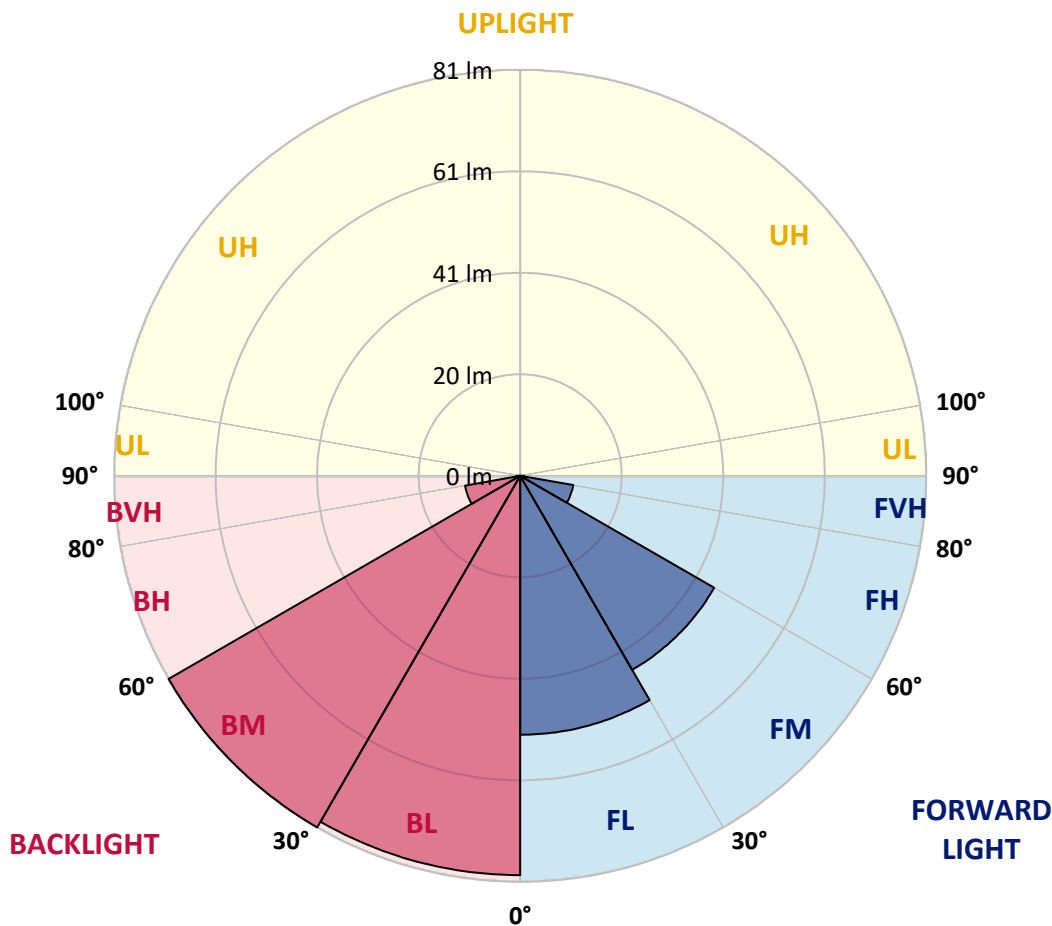


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	52.0	18.4			
FM (30°-60°)	45.0	15.9			
FH (60°-80°)	10.8	3.8			G0/660
FVH (80°-90°)	0.7	0.3			G0/10
BL (0°-30°)	80.1	28.4	B0/110		
BM (30°-60°)	81.5	28.9	B0/220		
BH (60°-80°)	11.2	4.0	B0/110		G0/110
BVH (80°-90°)	0.7	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	206	206	206	206	206	206	206	206	206	206	206
2.5°	197	198	196	199	200	200	202	201	202	203	205
5°	189	189	189	193	194	195	199	199	201	203	205
7.5°	176	177	177	182	185	188	194	195	198	202	204
10°	158	159	160	166	171	177	185	189	194	199	201
12.5°	136	137	140	148	155	164	176	182	190	196	199
15°	111	113	117	126	136	149	165	176	185	193	196
17.5°	89	90	94	103	116	132	151	167	178	188	191
20°	71	71	74	83	97	113	136	155	170	182	185
22.5°	57	58	61	68	79	96	121	144	161	175	178
25°	49	49	51	57	66	80	105	130	152	167	171
27.5°	43	43	44	49	56	68	91	117	141	157	161
30°	39	39	40	43	48	58	77	103	129	146	150
32.5°	36	36	37	39	43	50	66	90	116	134	138
35°	34	34	34	36	39	44	57	79	103	121	125
37.5°	33	32	32	34	36	40	49	68	90	107	111
40°	31	31	31	32	33	36	44	58	78	93	96
42.5°	30	29	30	30	31	33	39	50	66	79	81
45°	29	28	28	29	29	31	35	43	56	65	68
47.5°	27	27	27	27	27	28	31	38	47	54	56
50°	26	25	25	25	26	26	29	33	39	44	46
52.5°	24	23	24	24	24	24	26	29	34	37	38
55°	22	22	22	22	22	22	23	26	29	31	32
57.5°	20	20	20	20	20	20	21	23	25	26	27
60°	18	18	18	18	18	18	19	20	21	22	23
62.5°	16	16	16	16	16	16	17	17	18	19	19
65°	14	14	14	14	14	14	15	15	16	16	16
67.5°	12	12	12	12	12	12	12	13	13	14	14
70°	10	10	10	10	10	10	11	11	11	11	11
72.5°	8	8	8	8	8	8	9	9	9	9	9
75°	6	6	6	6	6	7	7	7	7	7	7
77.5°	4	4	4	5	5	5	5	5	6	6	6
80°	3	3	3	3	3	4	4	4	4	4	4
82.5°	2	2	2	2	2	2	2	3	3	3	3
85°	1	1	1	1	1	1	1	1	1	2	2
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
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°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	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





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	206	206	206	206	206	206	206	206	206	206
2.5°	204	204	206	208	208	209	209	208	209	207
5°	206	208	208	210	211	212	212	212	213	212
7.5°	206	208	209	212	212	214	214	213	215	213
10°	203	205	207	211	211	213	214	213	215	212
12.5°	201	204	205	210	210	212	213	212	214	212
15°	198	201	204	209	209	210	211	210	211	209
17.5°	194	197	199	203	204	205	206	204	206	202
20°	189	191	193	198	198	198	198	196	198	195
22.5°	182	185	187	191	190	191	191	189	190	188
25°	174	177	179	183	182	182	182	181	182	179
27.5°	165	168	170	174	172	172	171	170	172	169
30°	154	157	159	162	160	160	159	159	160	157
32.5°	142	144	147	149	147	146	146	145	146	145
35°	128	131	132	134	131	131	131	130	131	130
37.5°	114	116	117	118	115	115	115	114	115	112
40°	98	100	101	102	98	98	99	98	98	96
42.5°	83	84	85	85	82	83	83	81	82	80
45°	69	70	70	70	68	67	68	68	67	66
47.5°	56	57	57	57	55	55	55	55	55	54
50°	46	47	46	47	45	45	45	45	45	44
52.5°	38	38	38	38	37	37	37	37	37	36
55°	32	32	31	31	30	30	30	30	30	29
57.5°	27	27	26	26	25	25	25	25	26	24
60°	23	22	22	22	21	21	21	21	21	21
62.5°	19	19	18	18	18	18	18	18	18	17
65°	17	16	15	15	15	15	15	15	15	15
67.5°	14	13	13	13	12	12	12	13	13	12
70°	12	11	11	10	10	10	10	10	11	10
72.5°	9	9	9	8	8	8	8	8	8	8
75°	7	7	7	7	6	6	6	6	7	6
77.5°	6	5	5	5	5	5	5	5	5	5
80°	4	4	4	3	3	3	3	3	3	3
82.5°	3	3	2	2	2	2	2	2	2	2
85°	1	1	1	1	1	1	1	1	1	1
87.5°	0	0	0	1	0	0	1	0	1	0
90°	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)