

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: P691144

Luminaire Tested: **CRTK2-C013-D-U-T3-7040-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C013-D-U-T3-7040-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2795.1 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U2 - G1

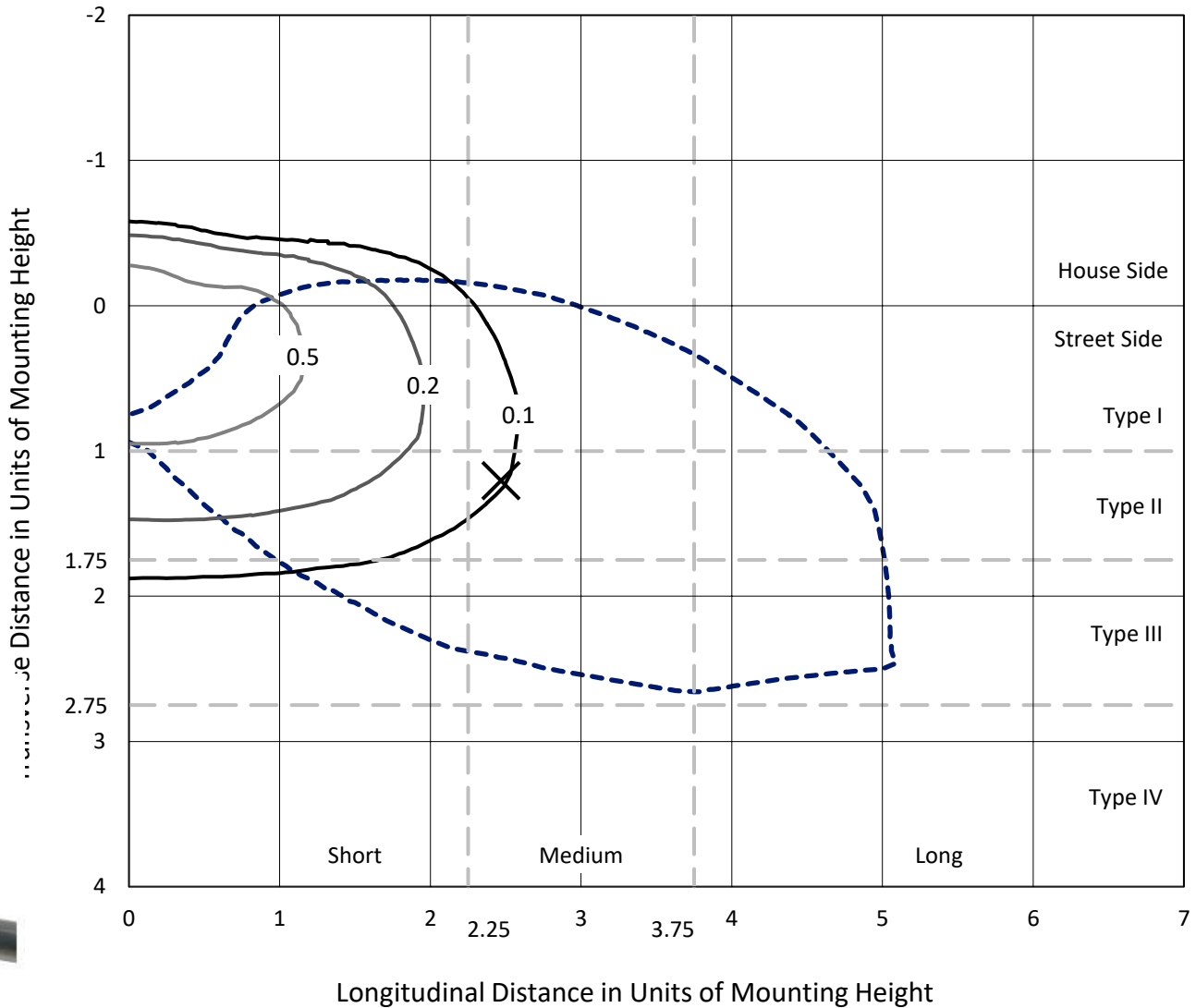
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

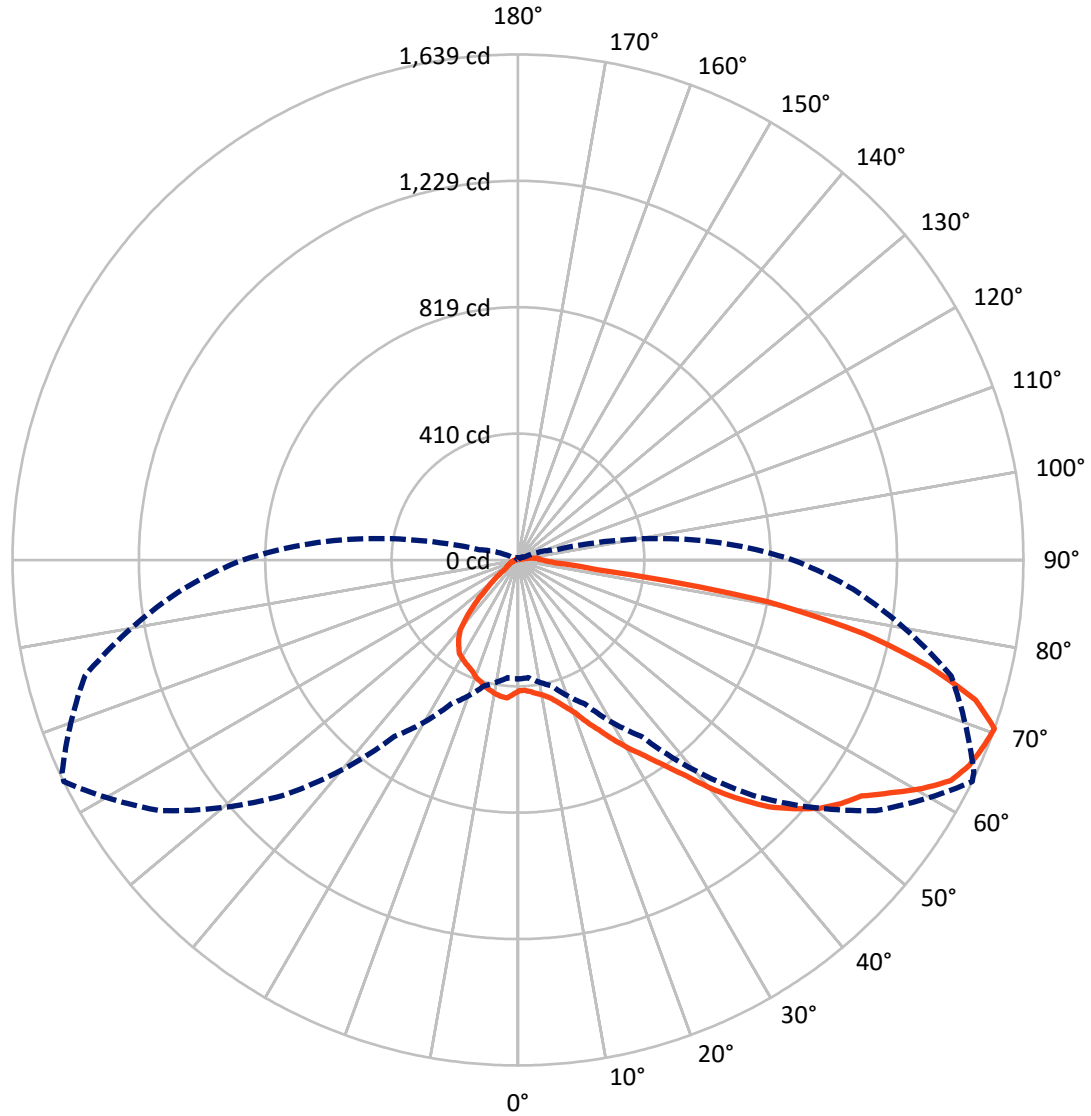
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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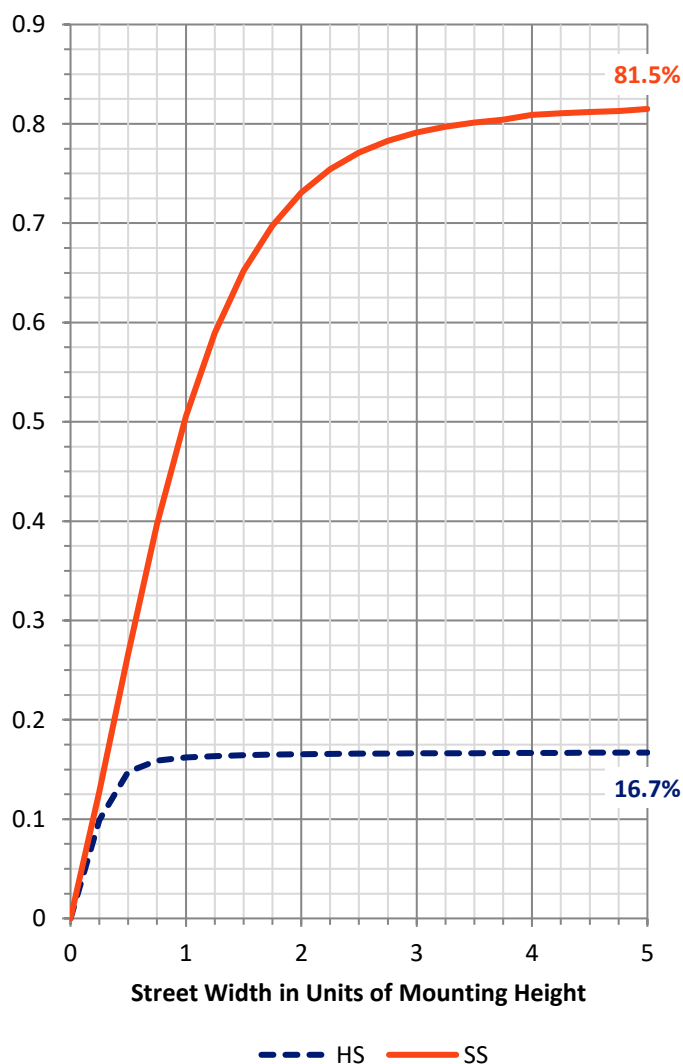
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	474.0	5.8	479.8
	% Fixture	17.0	0.2	17.2
<b>Street Side</b>	Lumens	2291.7	23.6	2315.3
	% Fixture	82.0	0.8	82.8
<b>Total</b>	Lumens	2765.8	29.3	2795.1
	% Fixture	99.0	1.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	1.5
10°-20°	128.8	4.6
20°-30°	222.7	8.0
30°-40°	330.4	11.8
40°-50°	453.9	16.2
50°-60°	551.2	19.7
60°-70°	585.6	21.0
70°-80°	386.9	13.8
80°-90°	64.1	2.3
90°-100°	23.9	0.9
100°-110°	4.0	0.1
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.3	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	2765.8	99.0
0°-180°	2795.1	100.0

**Coefficient of Utilization**



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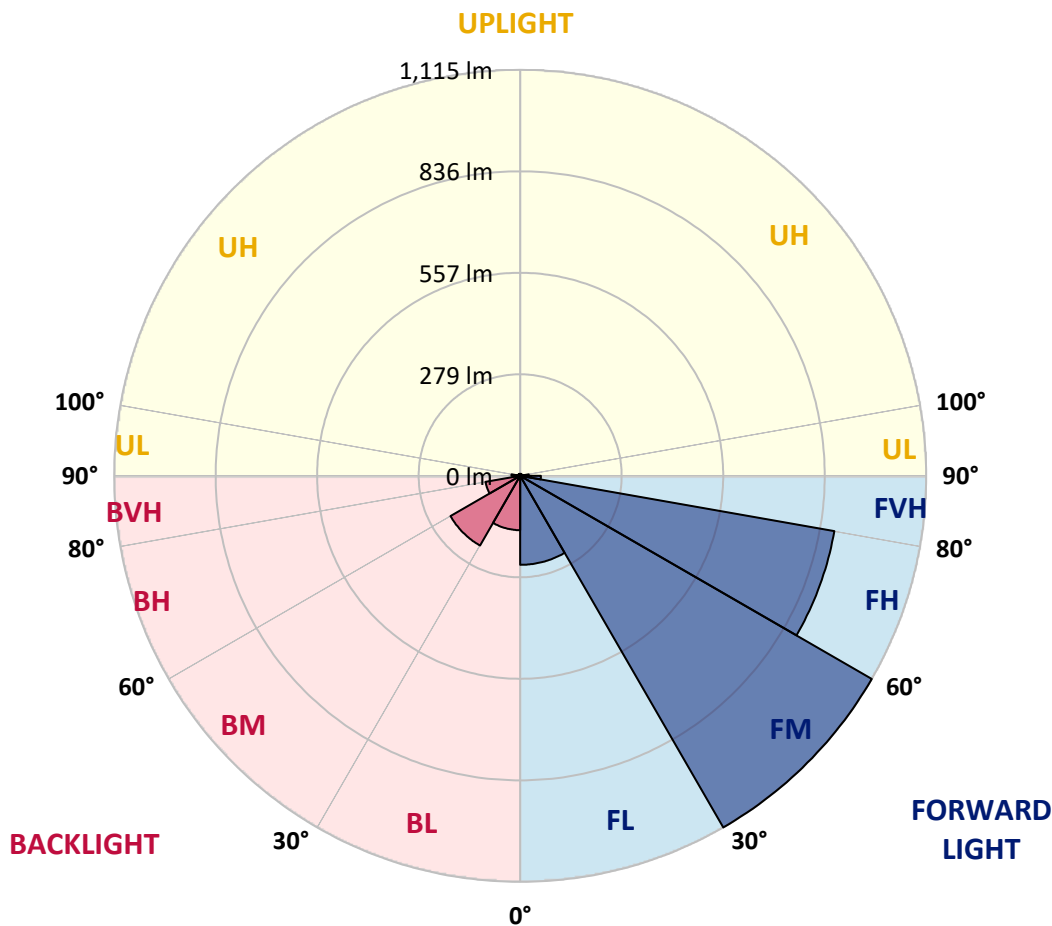
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.3	8.7			
FM (30°-60°)	1114.6	39.9			
FH (60°-80°)	875.9	31.3			G1/1800
FVH (80°-90°)	56.9	2.0			G1/100
BL (0°-30°)	149.2	5.3	B1/500		
BM (30°-60°)	221.0	7.9	B1/1000		
BH (60°-80°)	96.7	3.5	B0/110		G0/110
BVH (80°-90°)	7.2	0.3			G0/10
UL (90°-100°)	23.9	0.9		U2/50	
UH (100°-180°)	5.5	0.2		U1/10	

**BUG Rating: B1-U2-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	424	424	424	424	424	424	424	424	424	424	424
2.5°	427	426	427	426	425	424	423	423	422	423	424
5°	446	447	445	441	436	432	430	429	429	430	434
7.5°	460	459	458	457	453	444	439	437	437	435	442
10°	485	483	478	472	468	458	449	446	445	446	452
12.5°	512	510	509	503	489	480	465	458	458	458	461
15°	551	548	538	531	519	504	487	477	477	479	471
17.5°	579	577	576	564	554	531	518	501	501	505	488
20°	608	606	607	605	590	572	549	529	529	530	506
22.5°	647	644	644	643	635	614	587	570	567	559	529
25°	686	685	683	684	682	658	629	610	610	599	560
27.5°	725	725	724	725	724	709	680	660	661	647	594
30°	753	752	759	762	764	758	730	708	710	696	634
32.5°	779	778	790	797	799	798	775	757	762	749	682
35°	803	802	818	836	844	842	827	817	822	821	747
37.5°	821	824	845	870	884	885	878	889	895	915	828
40°	842	842	862	889	914	924	930	980	986	990	882
42.5°	820	826	869	909	941	964	997	1062	1075	1045	948
45°	803	808	852	919	965	1008	1070	1142	1152	1100	983
47.5°	785	793	838	912	988	1062	1131	1205	1214	1147	1032
50°	764	773	821	902	1000	1113	1186	1266	1267	1188	1059
52.5°	744	750	800	889	1010	1152	1238	1312	1306	1240	1088
55°	710	722	775	871	1015	1174	1274	1351	1355	1296	1127
57.5°	679	687	743	845	1011	1187	1309	1424	1432	1346	1155
60°	640	645	699	809	985	1209	1387	1505	1514	1394	1166
62.5°	591	591	645	761	952	1225	1441	1575	1575	1432	1170
65°	528	531	579	696	897	1216	1457	1608	1611	1459	1168
67.5°	467	466	508	611	814	1169	1445	1625	1637	1475	1142
70°	386	383	422	515	698	1080	1417	1639	1631	1454	1091
72.5°	297	294	323	394	550	927	1335	1551	1537	1340	986
75°	211	207	230	277	362	678	1145	1376	1360	1205	823
77.5°	120	116	137	175	219	384	867	1147	1169	994	629
80°	53	51	60	84	123	183	472	820	790	678	358
82.5°	45	45	46	48	50	84	177	258	247	199	114
85°	39	38	40	42	43	55	103	124	122	110	79
87.5°	32	30	33	35	35	45	77	91	91	92	70
90°	28	28	26	26	27	32	59	75	77	95	81
92.5°	24	24	24	24	20	23	42	67	72	93	73
95°	23	22	23	21	20	21	32	59	65	82	64
97.5°	16	15	17	17	18	19	27	44	46	61	48
100°	11	10	10	10	13	13	22	27	28	39	32
102.5°	6	5	5	5	7	8	11	15	15	21	18
105°	2	2	3	3	3	4	4	5	5	6	8
107.5°	0	0	0	0	0	0	0	0	0	0	1
110°	0	0	0	0	0	0	0	0	0	0	1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
112.5°	0	0	0	0	0	0	0	0	0	0	1
115°	0	0	0	0	0	0	0	0	0	0	1
117.5°	0	0	0	0	0	0	0	0	0	0	1
120°	0	0	0	0	0	0	0	0	0	0	1
122.5°	0	0	0	0	0	0	0	0	0	0	1
125°	0	0	0	0	0	0	0	0	0	0	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	0	0	1	1
137.5°	0	0	0	0	0	0	0	0	0	1	1
140°	0	0	0	0	0	0	0	0	0	1	1
142.5°	0	0	0	0	0	0	0	0	0	1	1
145°	0	0	0	0	0	0	0	0	0	1	1
147.5°	0	0	0	0	0	0	0	0	0	1	1
150°	0	0	0	0	0	0	0	0	0	1	1
152.5°	0	0	0	0	0	0	0	0	0	1	1
155°	0	0	0	0	0	0	0	0	0	1	1
157.5°	0	0	0	0	0	0	0	0	0	0	1
160°	0	0	0	0	0	0	0	0	0	1	1
162.5°	0	0	0	0	0	0	0	0	0	1	1
165°	0	0	0	0	0	0	0	0	0	0	1
167.5°	0	0	0	0	0	0	0	0	0	0	1
170°	0	0	0	0	0	0	0	0	0	0	1
172.5°	0	0	0	0	0	0	0	0	0	0	1
175°	0	0	0	0	0	0	0	0	0	0	1
177.5°	0	0	0	0	0	0	0	0	0	0	1
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°	424	424	424	424	424	424	424	424	424	424	424
2.5°	425	427	432	435	439	443	446	446	449	447	446
5°	438	439	445	449	448	444	441	439	440	442	442
7.5°	447	451	446	446	445	440	434	428	425	424	424
10°	452	448	446	441	430	427	422	411	408	408	404
12.5°	455	453	442	433	423	407	396	394	385	384	385
15°	467	457	443	426	407	393	378	362	355	356	357
17.5°	475	466	441	414	397	371	354	345	334	334	334
20°	488	473	438	409	369	350	330	320	309	290	288
22.5°	505	486	437	394	358	327	298	267	251	240	237
25°	526	504	444	387	337	299	262	220	190	184	184
27.5°	562	527	453	380	325	268	210	173	147	139	138
30°	597	556	456	373	302	226	162	123	100	90	88
32.5°	652	596	482	367	276	182	115	78	59	53	52
35°	708	650	491	351	229	133	66	42	32	27	26
37.5°	780	718	518	334	182	76	37	23	20	20	20
40°	822	748	542	312	125	39	22	18	18	17	17
42.5°	876	785	563	269	66	24	19	17	15	15	15
45°	907	809	556	216	31	22	18	15	14	14	14
47.5°	945	839	541	160	27	20	17	14	13	14	14
50°	983	869	503	123	25	19	15	12	12	13	13
52.5°	1002	890	458	85	25	18	14	12	11	11	11
55°	1024	895	420	56	24	17	13	10	10	9	9
57.5°	1036	882	392	47	23	16	12	9	8	7	7
60°	1031	863	368	41	21	15	11	8	6	5	5
62.5°	1021	847	324	36	20	13	9	7	5	4	4
65°	1010	804	273	31	18	12	8	6	4	3	3
67.5°	959	747	200	28	17	11	7	5	4	3	3
70°	892	652	129	24	15	10	7	4	3	2	2
72.5°	759	532	65	21	14	10	6	4	3	2	1
75°	620	397	42	18	13	10	6	4	2	1	1
77.5°	444	215	32	16	11	10	5	3	2	2	1
80°	185	78	26	13	10	9	5	3	2	2	1
82.5°	78	54	23	11	9	9	4	3	2	2	2
85°	61	45	20	10	8	10	4	3	3	3	3
87.5°	57	46	18	9	8	7	4	3	5	5	6
90°	64	48	14	8	7	6	3	2	2	0	0
92.5°	59	44	10	6	9	4	2	0	0	0	0
95°	51	37	6	4	10	5	1	0	0	0	0
97.5°	38	27	4	2	8	6	1	0	0	0	0
100°	27	17	3	2	5	6	1	0	0	0	0
102.5°	15	9	2	1	2	2	0	0	0	0	0
105°	7	3	1	1	1	0	0	0	0	0	0
107.5°	1	1	1	1	1	0	0	0	0	0	0
110°	1	1	1	1	1	1	0	0	0	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	0	0	0	0	0	0
117.5°	1	1	1	1	1	0	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	1	0	0	0	0	0
127.5°	1	1	1	1	1	1	0	0	0	0	0
130°	1	1	1	1	1	1	0	0	0	0	0
132.5°	1	1	1	1	1	1	0	0	0	0	0
135°	1	1	1	1	1	1	0	0	0	0	0
137.5°	1	1	1	1	1	1	0	0	0	0	0
140°	1	1	1	1	1	1	0	0	0	0	0
142.5°	1	1	1	1	1	1	0	0	0	0	0
145°	1	1	1	1	1	1	0	0	0	0	0
147.5°	1	1	1	1	1	1	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	1	0	0	0	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°	1	1	1	1	1	0	0	0	0	0	0
165°	1	1	1	1	1	0	0	0	0	0	0
167.5°	1	1	1	1	1	0	0	0	0	0	0
170°	1	1	1	1	1	0	0	0	0	0	0
172.5°	1	1	1	1	0	0	0	0	0	0	0
175°	1	1	1	1	0	0	0	0	0	0	0
177.5°	1	1	1	1	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)