

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: HALO

Report Number: P407866

Luminaire Tested: **ALP10A30 -DL**

Issue Date: 08/27/2020

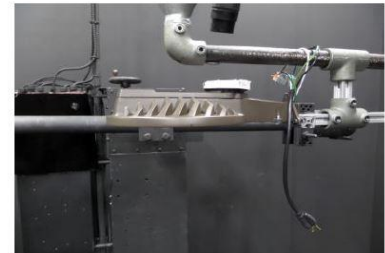
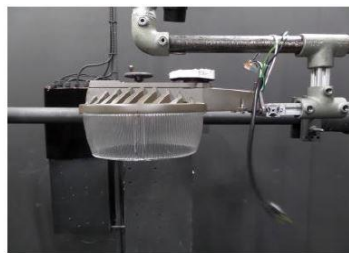
Test Information

Test Method: LM-79-08
Report Number: P407866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2006-852-19)
Test Lab: INNOVATIONS CENTER(G1)
Issue Date: 08/27/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ALP10A30 -DL
Description: HALO OUTDOOR BARN LIGHT PREMIUM 10000LM W/ DROP LENS
Light Source: (108) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10296 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.25')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U3 - G2

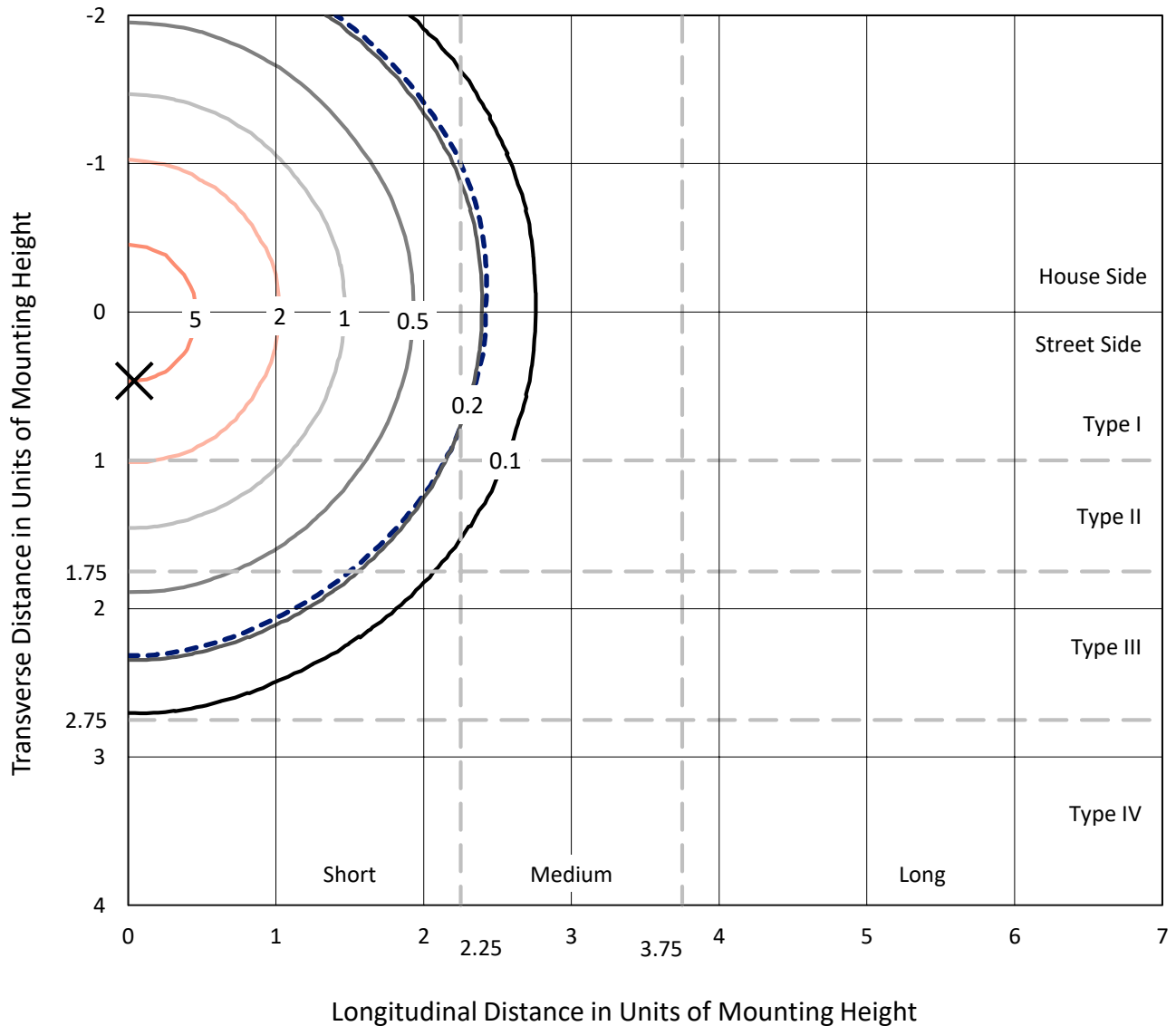
Input Watts (W): 77.8
Input Voltage (V): 120.0
Input Current (Ain): 0.659
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

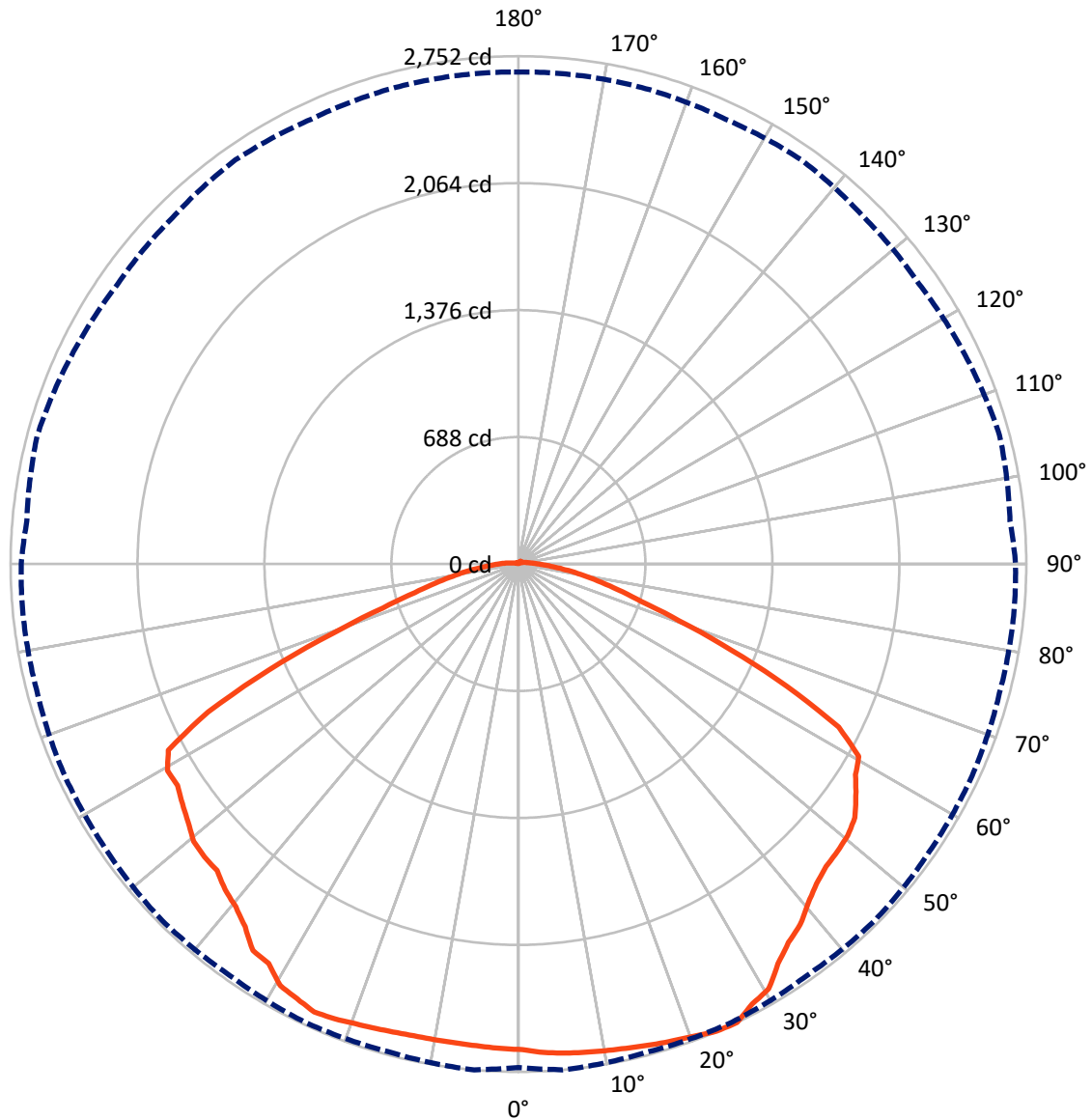
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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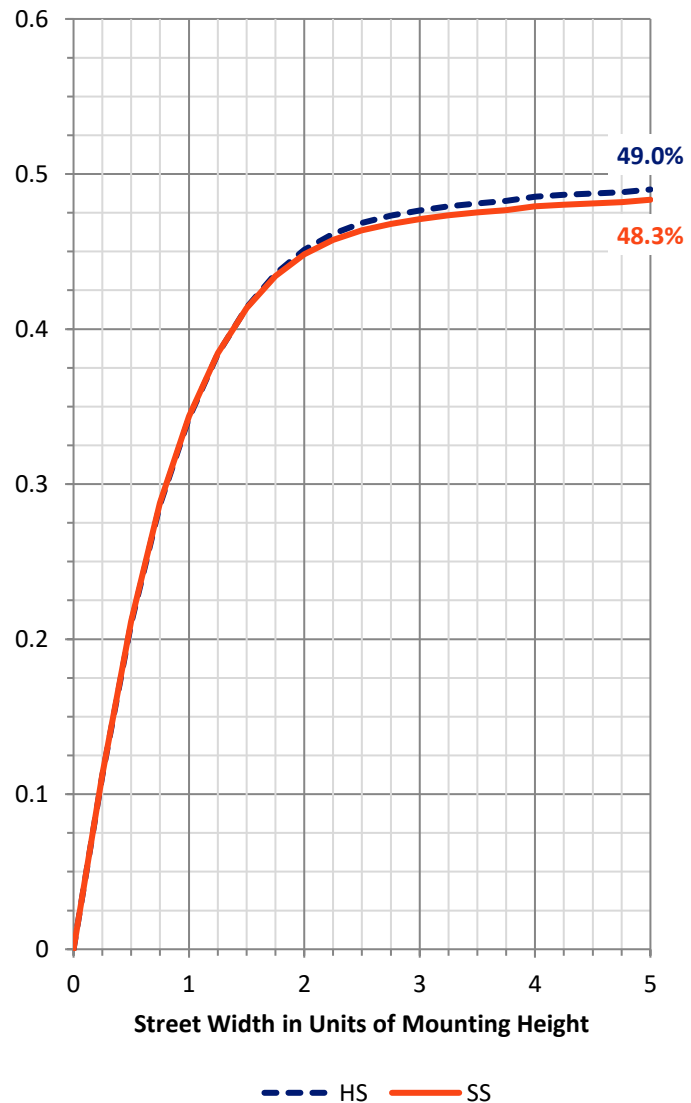
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5111.5	79.6	5191.1
	% Fixture	49.6	0.8	50.4
Street Side	Lumens	5020.4	84.4	5104.9
	% Fixture	48.8	0.8	49.6
Total	Lumens	10132.0	164.1	10296.0
	% Fixture	98.4	1.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	2.4
10°-20°	753.0	7.3
20°-30°	1238.2	12.0
30°-40°	1583.5	15.4
40°-50°	1816.0	17.6
50°-60°	1989.0	19.3
60°-70°	1645.6	16.0
70°-80°	633.4	6.2
80°-90°	221.6	2.2
90°-100°	72.2	0.7
100°-110°	33.7	0.3
110°-120°	16.8	0.2
120°-130°	14.2	0.1
130°-140°	13.2	0.1
140°-150°	9.8	0.1
150°-160°	3.6	0.0
160°-170°	0.5	0.0
170°-180°	0.1	0.0
0°-90°	10132.0	98.4
0°-180°	10296.0	100.0



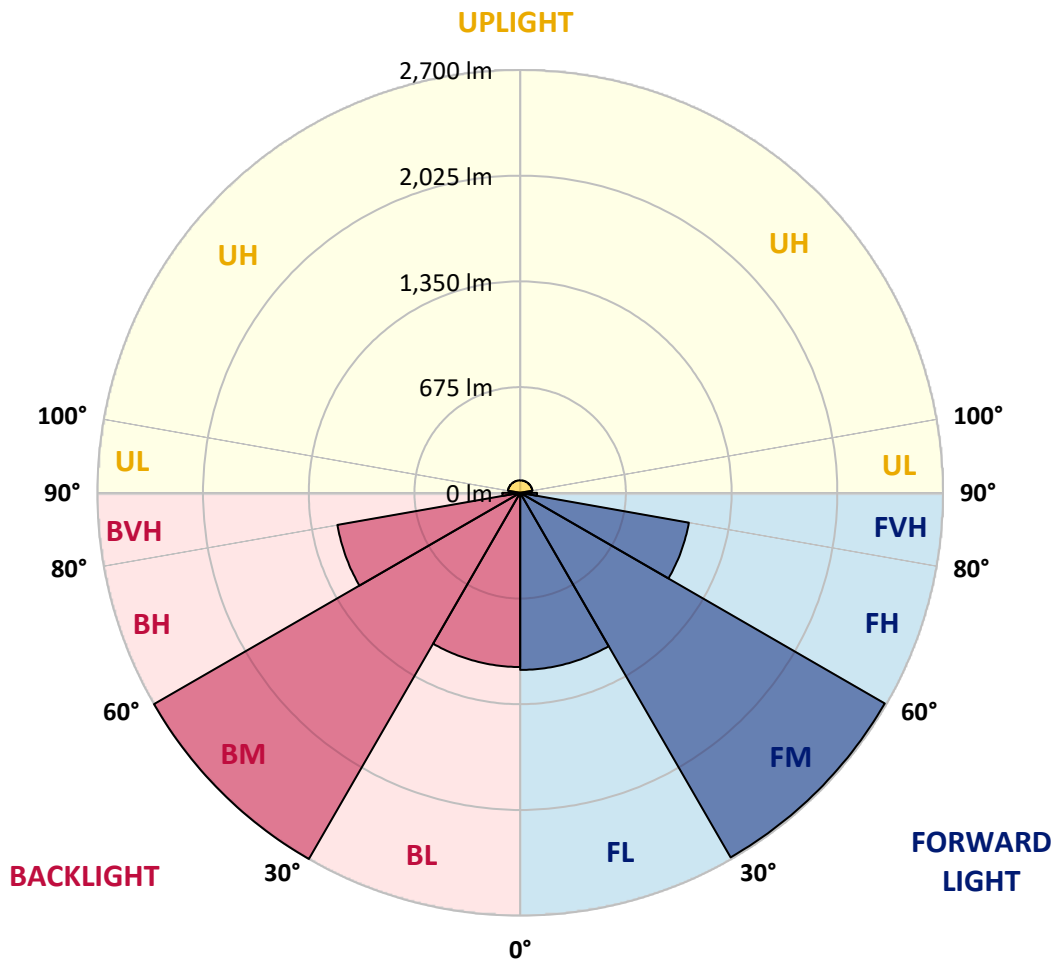
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1130.7	11.0			
FM	(30°-60°)	2688.5	26.1			
FH	(60°-80°)	1093.8	10.6			G1/1800
FVH	(80°-90°)	107.5	1.0			G2/225
BL	(0°-30°)	1112.0	10.8	B3/2500		
BM	(30°-60°)	2700.1	26.2	B3/5000		
BH	(60°-80°)	1185.2	11.5	B3/2500		G1/1800
BVH	(80°-90°)	114.1	1.1			G2/225
UL	(90°-100°)	72.2	0.7		U3/500	
UH	(100°-180°)	79.6	0.8		U3/500	

BUG Rating: B3-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	4°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631
2.5°	2647	2652	2651	2632	2650	2628	2652	2637	2636	2630	2635
5°	2655	2661	2662	2643	2659	2637	2659	2643	2642	2634	2636
7.5°	2661	2670	2671	2651	2666	2644	2665	2649	2646	2636	2637
10°	2668	2676	2680	2659	2675	2654	2673	2655	2652	2642	2642
12.5°	2677	2688	2690	2671	2684	2664	2681	2663	2659	2648	2647
15°	2690	2700	2703	2684	2696	2676	2690	2670	2669	2657	2656
17.5°	2703	2712	2716	2696	2706	2687	2701	2681	2677	2665	2665
20°	2714	2727	2730	2710	2718	2701	2711	2694	2690	2677	2676
22.5°	2731	2744	2750	2732	2735	2718	2727	2708	2706	2691	2689
25°	2728	2746	2752	2735	2739	2723	2731	2718	2713	2699	2698
27.5°	2678	2694	2699	2684	2689	2678	2681	2673	2665	2668	2665
30°	2646	2665	2672	2668	2675	2677	2671	2672	2656	2652	2647
32.5°	2585	2580	2583	2577	2584	2571	2586	2567	2580	2559	2579
35°	2493	2511	2519	2514	2515	2517	2515	2514	2527	2537	2533
37.5°	2468	2478	2480	2467	2497	2484	2483	2469	2490	2479	2490
40°	2399	2401	2417	2411	2444	2423	2404	2419	2420	2428	2433
42.5°	2354	2361	2368	2352	2391	2376	2370	2349	2370	2381	2382
45°	2303	2331	2338	2301	2355	2342	2326	2313	2325	2347	2338
47.5°	2293	2310	2326	2313	2324	2323	2341	2299	2298	2345	2290
50°	2306	2304	2313	2295	2287	2282	2312	2260	2291	2299	2288
52.5°	2232	2263	2283	2266	2247	2263	2249	2237	2254	2267	2254
55°	2213	2216	2219	2221	2209	2215	2195	2185	2215	2212	2237
57.5°	2149	2146	2154	2138	2131	2129	2113	2101	2149	2167	2203
60°	2107	2110	2119	2107	2092	2096	2084	2089	2128	2159	2187
62.5°	1925	1930	1948	1926	1907	1912	1903	1923	1985	2023	2067
65°	1613	1617	1598	1590	1574	1582	1591	1621	1678	1714	1759
67.5°	1230	1241	1244	1224	1202	1211	1232	1269	1301	1326	1372
70°	916	924	924	907	874	893	916	940	978	989	1015
72.5°	691	694	699	686	672	673	691	704	733	734	736
75°	548	548	555	549	536	539	542	555	560	560	567
77.5°	435	437	440	436	427	429	431	435	431	426	431
80°	342	339	343	343	332	340	339	337	331	330	336
82.5°	252	253	255	257	252	256	257	256	248	249	250
85°	190	186	188	184	184	185	184	185	182	181	180
87.5°	139	136	136	137	134	137	135	135	134	129	130
90°	103	102	103	103	100	100	98	99	98	95	97
92.5°	80	79	80	79	77	77	75	76	74	74	75
95°	63	62	63	63	60	60	60	59	59	59	60
97.5°	52	51	52	52	51	50	51	50	49	49	50
100°	43	43	44	44	43	43	43	43	43	42	43
102.5°	37	37	37	38	37	38	38	38	38	37	37
105°	32	32	33	33	33	33	33	33	33	33	33
107.5°	28	28	28	29	28	29	29	29	29	29	29
110°	23	23	23	24	24	24	24	24	23	23	23



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CANDELA DISTRIBUTION (continued):

	0°	4°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	19	19	19	20	21	21	21	20	20	19	18
115°	17	17	17	19	19	20	20	19	18	17	16
117.5°	16	16	16	18	18	19	19	19	18	16	15
120°	17	16	16	17	18	18	18	18	17	16	15
122.5°	18	17	17	18	18	18	18	18	17	16	16
125°	18	18	18	18	18	18	17	17	17	17	17
127.5°	19	18	18	18	18	18	17	17	17	17	18
130°	20	19	19	19	18	18	17	17	17	17	18
132.5°	19	19	19	19	19	18	17	17	17	17	18
135°	20	19	19	19	19	18	18	18	18	18	18
137.5°	20	19	19	19	19	19	18	18	18	18	18
140°	19	19	19	19	18	18	18	18	18	18	18
142.5°	18	18	18	18	18	18	17	18	18	18	18
145°	17	16	16	17	16	17	17	17	17	17	17
147.5°	15	14	14	15	14	15	15	15	15	15	16
150°	12	12	12	12	12	13	13	13	13	13	14
152.5°	10	10	10	10	10	10	10	11	11	11	11
155°	7	7	7	7	7	8	8	8	8	8	8
157.5°	5	5	5	5	5	5	5	6	5	6	6
160°	3	3	3	3	3	3	3	4	4	4	4
162.5°	2	2	2	2	2	2	2	2	2	2	2
165°	1	1	1	1	1	1	1	1	1	1	1
167.5°	1	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	1	1	1	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1	1	1	1
177.5°	1	1	1	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631	2631
2.5°	2627	2609	2639	2624	2606	2620	2642	2627	2626	2627	2619
5°	2629	2611	2639	2622	2603	2616	2638	2623	2620	2621	2613
7.5°	2630	2613	2638	2621	2602	2613	2637	2619	2617	2617	2610
10°	2634	2616	2642	2623	2603	2612	2636	2618	2616	2617	2611
12.5°	2642	2623	2648	2628	2606	2616	2638	2621	2619	2618	2613
15°	2650	2630	2658	2633	2612	2620	2641	2625	2623	2623	2618
17.5°	2659	2640	2663	2641	2620	2627	2648	2630	2632	2632	2627
20°	2672	2651	2676	2651	2630	2635	2656	2640	2645	2643	2645
22.5°	2686	2666	2688	2663	2642	2646	2666	2653	2659	2658	2656
25°	2694	2674	2699	2672	2649	2653	2673	2659	2667	2668	2666
27.5°	2662	2647	2672	2650	2626	2629	2652	2638	2648	2643	2649
30°	2649	2628	2650	2631	2606	2607	2631	2614	2623	2623	2625
32.5°	2558	2549	2578	2555	2539	2544	2567	2557	2560	2552	2565
35°	2551	2539	2547	2545	2526	2518	2533	2520	2539	2541	2511
37.5°	2471	2472	2497	2469	2443	2457	2469	2461	2470	2461	2475
40°	2428	2426	2449	2425	2397	2406	2416	2403	2428	2407	2414
42.5°	2388	2384	2405	2382	2365	2363	2362	2355	2379	2375	2378
45°	2371	2333	2391	2337	2315	2337	2318	2310	2362	2329	2355
47.5°	2367	2325	2346	2315	2294	2301	2314	2322	2321	2327	2314
50°	2310	2304	2327	2298	2276	2283	2326	2317	2313	2314	2325
52.5°	2299	2280	2289	2261	2232	2239	2272	2279	2276	2271	2274
55°	2253	2236	2257	2245	2197	2200	2221	2225	2239	2236	2244
57.5°	2195	2204	2235	2199	2154	2148	2180	2187	2203	2203	2223
60°	2208	2199	2216	2189	2137	2134	2176	2181	2205	2207	2214
62.5°	2084	2095	2112	2099	2046	2059	2098	2113	2150	2148	2163
65°	1765	1777	1814	1791	1761	1766	1810	1825	1861	1863	1873
67.5°	1359	1387	1420	1424	1403	1400	1399	1425	1463	1468	1508
70°	1019	1024	1051	1042	1050	1021	1033	1041	1069	1075	1065
72.5°	746	751	755	761	762	754	758	743	770	774	772
75°	566	572	568	569	577	577	578	584	589	582	583
77.5°	433	437	435	435	450	453	455	465	466	461	461
80°	339	339	338	342	346	355	364	366	367	362	366
82.5°	253	256	253	259	263	274	272	279	277	278	283
85°	181	181	185	188	192	199	202	207	207	203	207
87.5°	132	132	135	138	143	146	148	152	152	150	149
90°	95	97	100	102	106	108	109	111	113	112	112
92.5°	75	77	78	79	82	84	85	88	87	88	88
95°	61	62	61	62	63	64	64	63	63	64	64
97.5°	50	51	51	51	52	52	51	51	47	47	48
100°	43	44	44	44	45	45	43	42	36	37	38
102.5°	38	38	38	38	38	38	36	33	27	28	29
105°	33	34	33	34	34	33	30	26	22	23	23
107.5°	29	29	29	29	29	28	25	22	18	20	21
110°	23	23	23	23	23	22	20	18	15	16	17



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	18	18	18	18	18	17	16	14	12	12	13
115°	15	15	15	15	15	15	14	12	9	9	9
117.5°	15	15	15	15	16	15	14	12	8	8	8
120°	15	15	16	17	17	16	15	12	9	7	7
122.5°	16	16	16	16	16	16	15	13	10	7	7
125°	17	17	17	16	16	16	14	14	10	7	7
127.5°	18	18	17	17	17	16	15	14	11	8	7
130°	18	18	17	17	17	17	16	15	11	8	6
132.5°	17	18	17	17	17	18	18	15	12	7	6
135°	17	18	18	18	18	19	18	17	13	8	7
137.5°	18	18	18	18	19	18	18	17	13	9	9
140°	18	19	18	18	19	19	18	16	12	10	10
142.5°	18	18	18	18	18	18	17	15	12	9	8
145°	17	17	18	17	17	17	16	14	11	9	8
147.5°	16	16	16	16	16	15	14	12	9	7	8
150°	13	14	14	14	14	13	12	10	8	6	6
152.5°	11	11	11	11	11	11	10	8	6	5	5
155°	8	9	9	9	9	8	7	6	4	3	3
157.5°	6	6	6	6	6	5	5	4	3	2	2
160°	4	4	4	4	4	4	3	2	2	1	1
162.5°	2	2	2	2	2	2	2	1	1	1	1
165°	1	1	1	1	1	1	1	1	1	1	1
167.5°	1	1	1	1	1	1	1	1	1	1	1
170°	1	1	1	1	1	1	1	1	1	1	1
172.5°	1	1	1	1	1	1	1	1	1	1	1
175°	1	1	1	1	1	1	1	1	1	1	1
177.5°	1	1	1	1	1	1	1	1	1	1	1
180°	1	1	1	1	1	1	1	1	1	1	1

(END OF REPORT)