

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: P407856

Luminaire Tested: **ALP10A30**

Issue Date: 08/27/2020

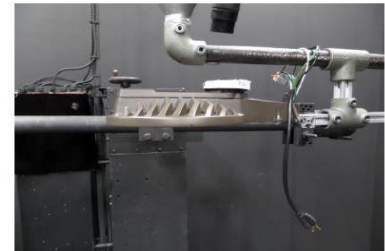
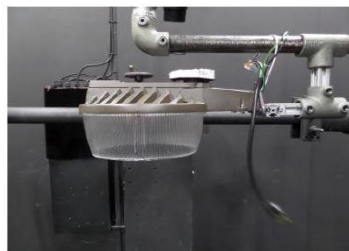
Test Information

Test Method: LM-79-08
Report Number: P407856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2006-852-7)
Test Lab: INNOVATIONS CENTER(G1)
Issue Date: 08/27/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ALP10A30
Description: HALO OUTDOOR BARN LIGHT PREMIUM 10000LM
Light Source: (108) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10416 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Circular (Dia: 0.67' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

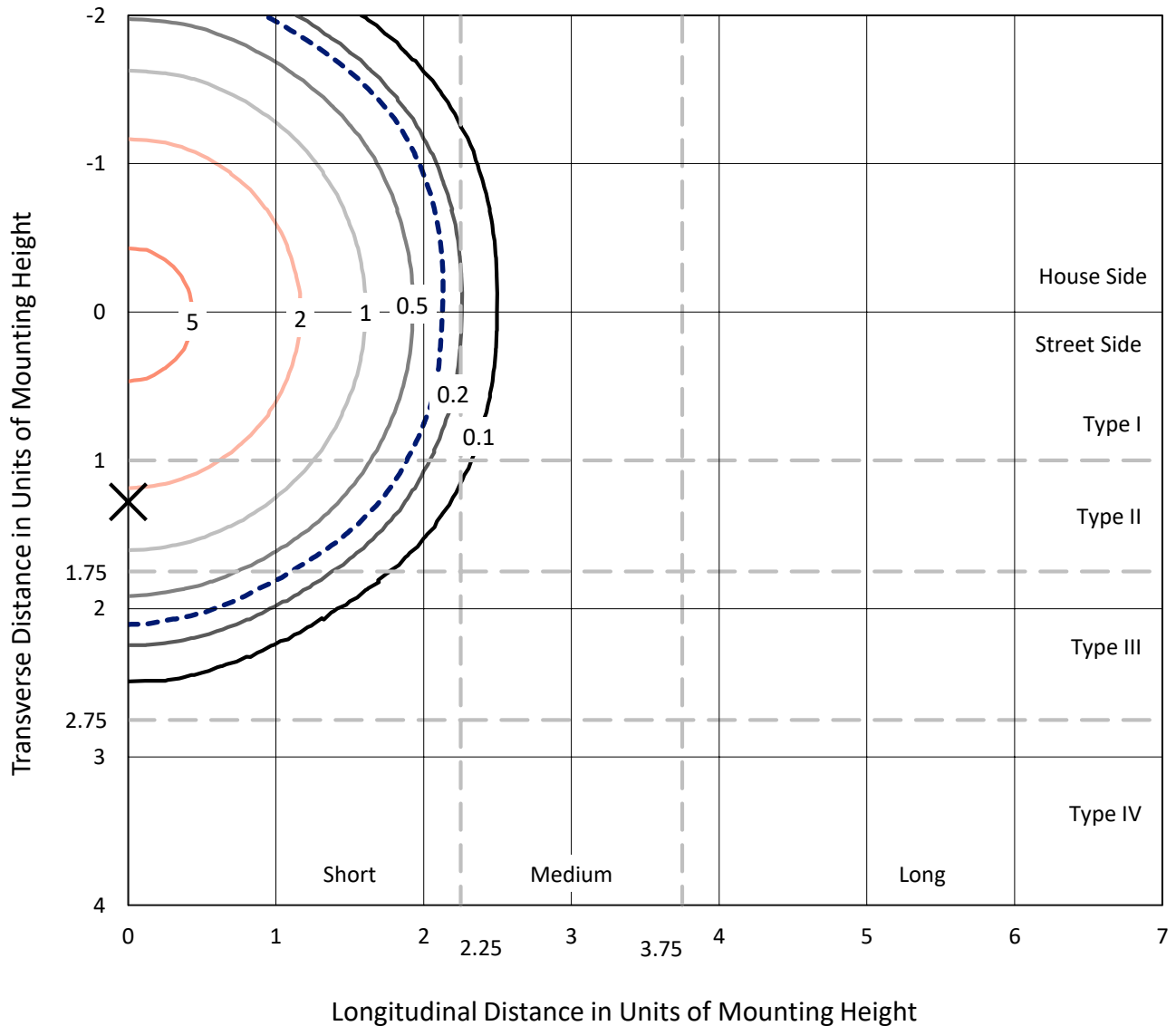
Input Watts (W): 77.7
Input Voltage (V): 120.0
Input Current (Ain): 0.658
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P407856
 CATALOG NUMBER: ALP10A30

Iso-Footcandle Lines of Horizontal Illumination

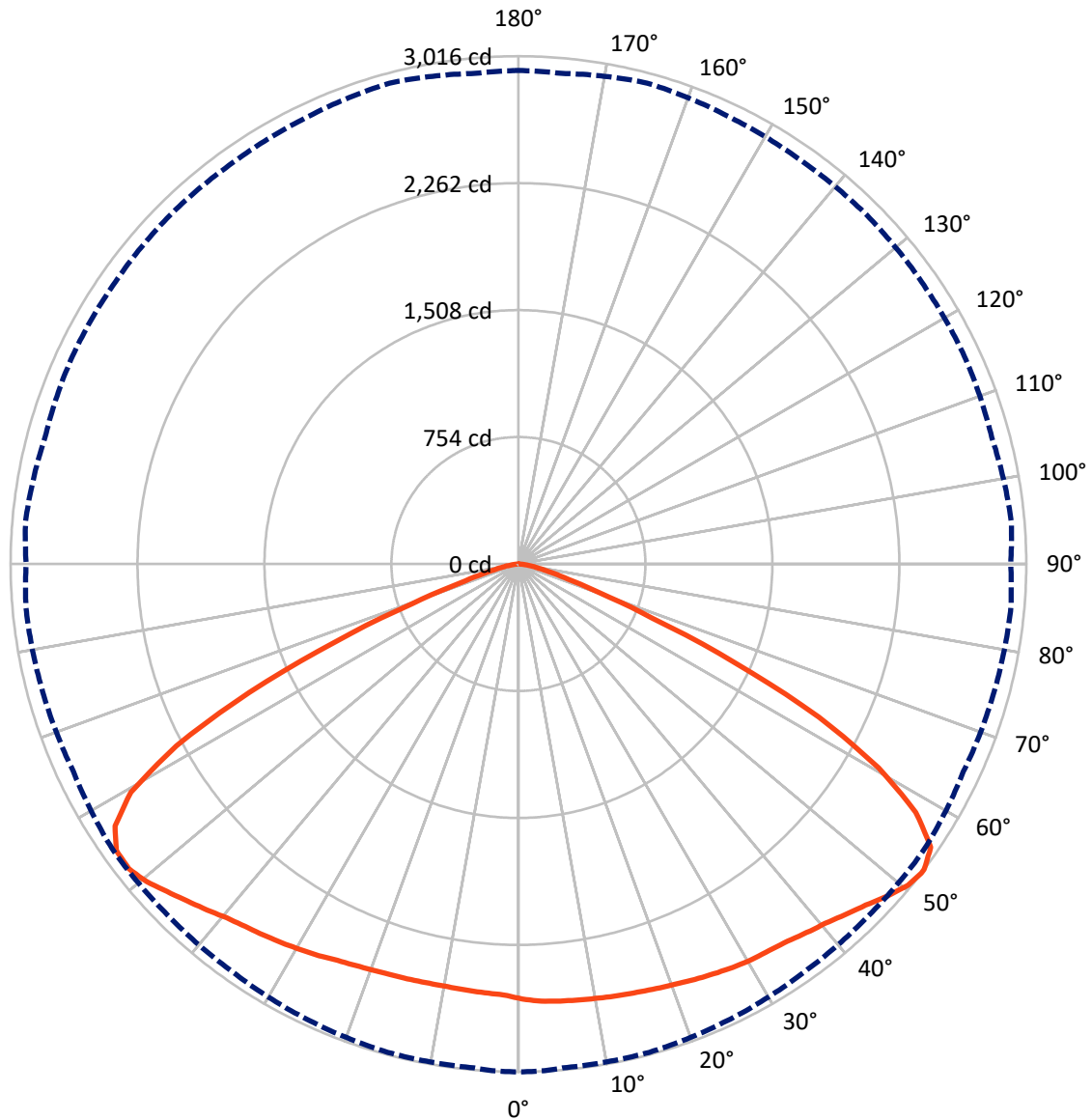
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P407856
CATALOG NUMBER: ALP10A30

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 52-Deg Vertical

REPORT NUMBER: P407856
 CATALOG NUMBER: ALP10A30

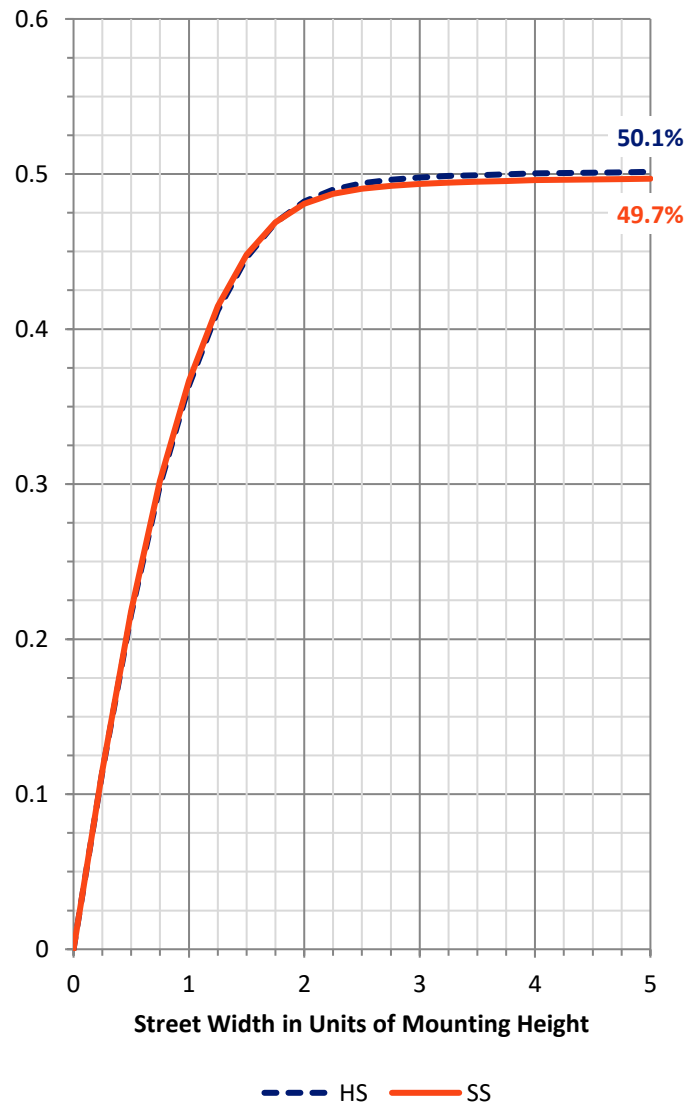
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5243.5	0.0	5243.5
	% Fixture	50.3	0.0	50.3
Street Side	Lumens	5172.5	0.0	5172.5
	% Fixture	49.7	0.0	49.7
Total	Lumens	10416.0	0.0	10416.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	2.4
10°-20°	735.7	7.1
20°-30°	1218.4	11.7
30°-40°	1699.6	16.3
40°-50°	2199.3	21.1
50°-60°	2550.3	24.5
60°-70°	1504.7	14.4
70°-80°	234.2	2.2
80°-90°	27.1	0.3
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°	10416.0	100.0
0°-180°	10416.0	100.0



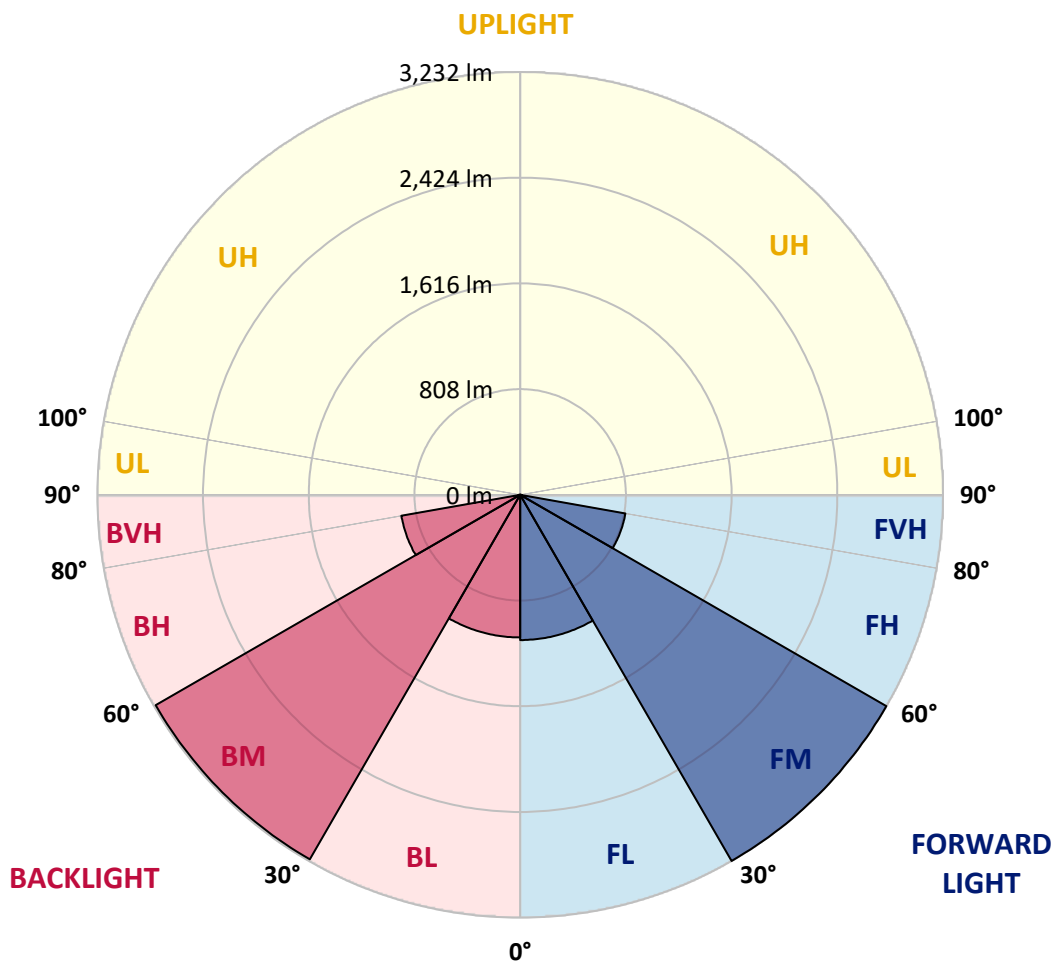
REPORT NUMBER: P407856
 CATALOG NUMBER: ALP10A30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1110.2	10.7			
FM	(30°-60°)	3232.1	31.0			
FH	(60°-80°)	816.9	7.8			G1/1800
FVH	(80°-90°)	13.3	0.1			G1/100
BL	(0°-30°)	1090.5	10.5	B3/2500		
BM	(30°-60°)	3217.2	30.9	B3/5000		
BH	(60°-80°)	922.0	8.9	B2/1000		G1/1800
BVH	(80°-90°)	13.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P407856
 CATALOG NUMBER: ALP10A30

CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2583	2583	2583	2583	2583	2583	2583	2583	2583	2583	2583
2.5°	2600	2592	2599	2606	2584	2582	2591	2593	2583	2575	2594
5°	2607	2600	2606	2615	2591	2588	2596	2597	2585	2578	2594
7.5°	2614	2607	2614	2620	2597	2593	2602	2603	2587	2581	2594
10°	2621	2613	2620	2628	2603	2599	2606	2608	2591	2584	2596
12.5°	2631	2621	2629	2634	2610	2605	2614	2613	2595	2587	2601
15°	2639	2631	2639	2642	2618	2612	2620	2619	2600	2594	2605
17.5°	2651	2644	2650	2651	2626	2619	2627	2626	2604	2601	2610
20°	2663	2656	2661	2664	2637	2628	2633	2633	2611	2608	2618
22.5°	2680	2670	2677	2677	2649	2639	2643	2641	2620	2616	2627
25°	2696	2690	2692	2692	2664	2651	2654	2654	2632	2629	2638
27.5°	2713	2706	2709	2707	2682	2664	2668	2667	2644	2643	2651
30°	2727	2720	2721	2722	2695	2680	2682	2683	2661	2659	2669
32.5°	2736	2730	2732	2734	2711	2697	2698	2700	2679	2679	2688
35°	2752	2746	2747	2748	2729	2715	2717	2722	2700	2700	2709
37.5°	2778	2770	2768	2772	2752	2738	2740	2746	2723	2726	2734
40°	2806	2801	2800	2803	2781	2769	2769	2774	2753	2757	2765
42.5°	2846	2840	2839	2841	2824	2807	2805	2811	2789	2794	2801
45°	2890	2889	2886	2890	2868	2851	2847	2849	2827	2836	2842
47.5°	2948	2946	2936	2940	2918	2899	2889	2894	2866	2875	2882
50°	2998	2990	2984	2983	2960	2941	2930	2932	2900	2909	2922
52°	3016	3013	3004	3002	2981	2958	2947	2946	2916	2925	2936
52.5°	3016	3014	3004	3003	2982	2958	2947	2947	2915	2925	2937
55°	2971	2961	2956	2948	2933	2911	2902	2906	2877	2887	2905
57.5°	2783	2793	2785	2763	2750	2746	2744	2764	2742	2764	2779
60°	2458	2482	2453	2431	2419	2431	2445	2488	2479	2500	2492
62.5°	2003	1988	1961	1948	1897	1922	1987	2021	2038	2063	2069
65°	1413	1423	1388	1366	1301	1309	1406	1477	1481	1504	1449
67.5°	859	857	882	821	775	777	855	943	950	921	896
70°	506	495	510	447	408	422	482	536	554	507	474
72.5°	306	303	288	266	241	243	274	321	325	292	259
75°	199	194	191	169	156	155	169	200	196	175	161
77.5°	131	130	130	112	102	103	111	131	131	112	105
80°	87	84	80	73	67	68	72	83	82	73	67
82.5°	48	47	46	43	41	41	44	48	47	44	40
85°	20	20	19	17	17	16	18	18	18	17	16
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



REPORT NUMBER: P407856
 CATALOG NUMBER: ALP10A30

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2583	2583	2583	2583	2583	2583	2583	2583	2583	2583	2583
2.5°	2578	2583	2562	2583	2571	2577	2585	2576	2594	2579	2560
5°	2579	2582	2561	2580	2568	2573	2577	2570	2586	2572	2554
7.5°	2578	2584	2559	2580	2566	2570	2572	2564	2581	2563	2549
10°	2579	2585	2560	2578	2564	2567	2568	2561	2577	2560	2545
12.5°	2582	2589	2561	2579	2565	2566	2568	2559	2577	2558	2546
15°	2587	2592	2565	2581	2566	2567	2567	2562	2577	2560	2549
17.5°	2593	2599	2571	2586	2571	2570	2569	2563	2583	2563	2554
20°	2599	2606	2577	2593	2576	2575	2572	2569	2588	2570	2561
22.5°	2607	2616	2586	2599	2584	2583	2580	2577	2599	2579	2572
25°	2618	2628	2597	2611	2594	2595	2591	2592	2615	2597	2587
27.5°	2632	2644	2611	2627	2611	2610	2607	2610	2635	2616	2610
30°	2650	2661	2630	2644	2630	2628	2627	2629	2658	2638	2630
32.5°	2670	2679	2648	2664	2650	2649	2649	2652	2678	2657	2652
35°	2693	2702	2673	2687	2673	2674	2670	2677	2699	2677	2673
37.5°	2716	2727	2698	2714	2700	2702	2697	2703	2726	2699	2695
40°	2749	2760	2730	2745	2731	2732	2729	2732	2758	2726	2723
42.5°	2788	2799	2770	2780	2768	2768	2767	2774	2794	2762	2764
45°	2826	2839	2810	2821	2810	2812	2810	2818	2837	2803	2805
47.5°	2868	2882	2852	2864	2853	2858	2856	2865	2881	2852	2852
50°	2908	2922	2886	2904	2896	2902	2901	2908	2931	2897	2904
52°	2924	2938	2910	2922	2922	2928	2925	2936	2957	2925	2931
52.5°	2926	2940	2911	2926	2925	2930	2929	2941	2962	2928	2937
55°	2894	2911	2892	2906	2912	2918	2920	2931	2953	2925	2932
57.5°	2772	2790	2782	2798	2818	2834	2831	2844	2879	2854	2856
60°	2514	2527	2564	2575	2605	2624	2620	2629	2690	2654	2670
62.5°	2045	2095	2116	2186	2237	2215	2205	2244	2302	2299	2300
65°	1461	1490	1580	1646	1692	1670	1630	1637	1734	1738	1771
67.5°	885	905	973	1071	1091	1056	997	1036	1131	1155	1176
70°	480	482	552	609	632	587	536	541	585	643	675
72.5°	255	265	303	338	356	306	285	280	313	351	361
75°	157	161	177	205	213	180	169	166	181	206	214
77.5°	102	103	113	131	132	118	104	104	112	131	136
80°	66	68	72	81	85	74	68	68	72	81	84
82.5°	40	41	44	46	49	44	41	41	43	47	47
85°	16	17	18	20	20	20	19	19	21	21	21
87.5°	0	1	0	1	1	1	1	1	1	0	1
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)