

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: P407848

Luminaire Tested: **ALB7A**

Issue Date: 08/27/2020

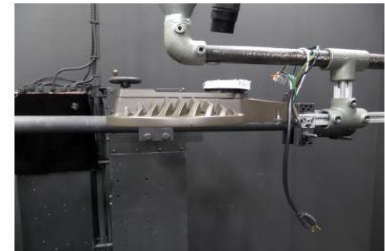
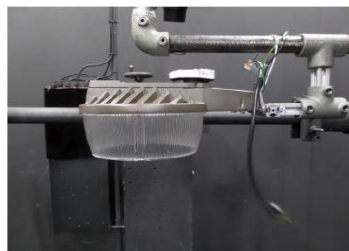
Test Information

Test Method: LM-79-08
Report Number: P407848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2006-852-1-R2)
Test Lab: INNOVATIONS CENTER(G1)
Issue Date: 08/27/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ALB7A
Description: HALO OUTDOOR BARN LIGHT LITE 50W 4000K
Light Source: (78) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7398.1 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Circular (Dia: 0.67' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

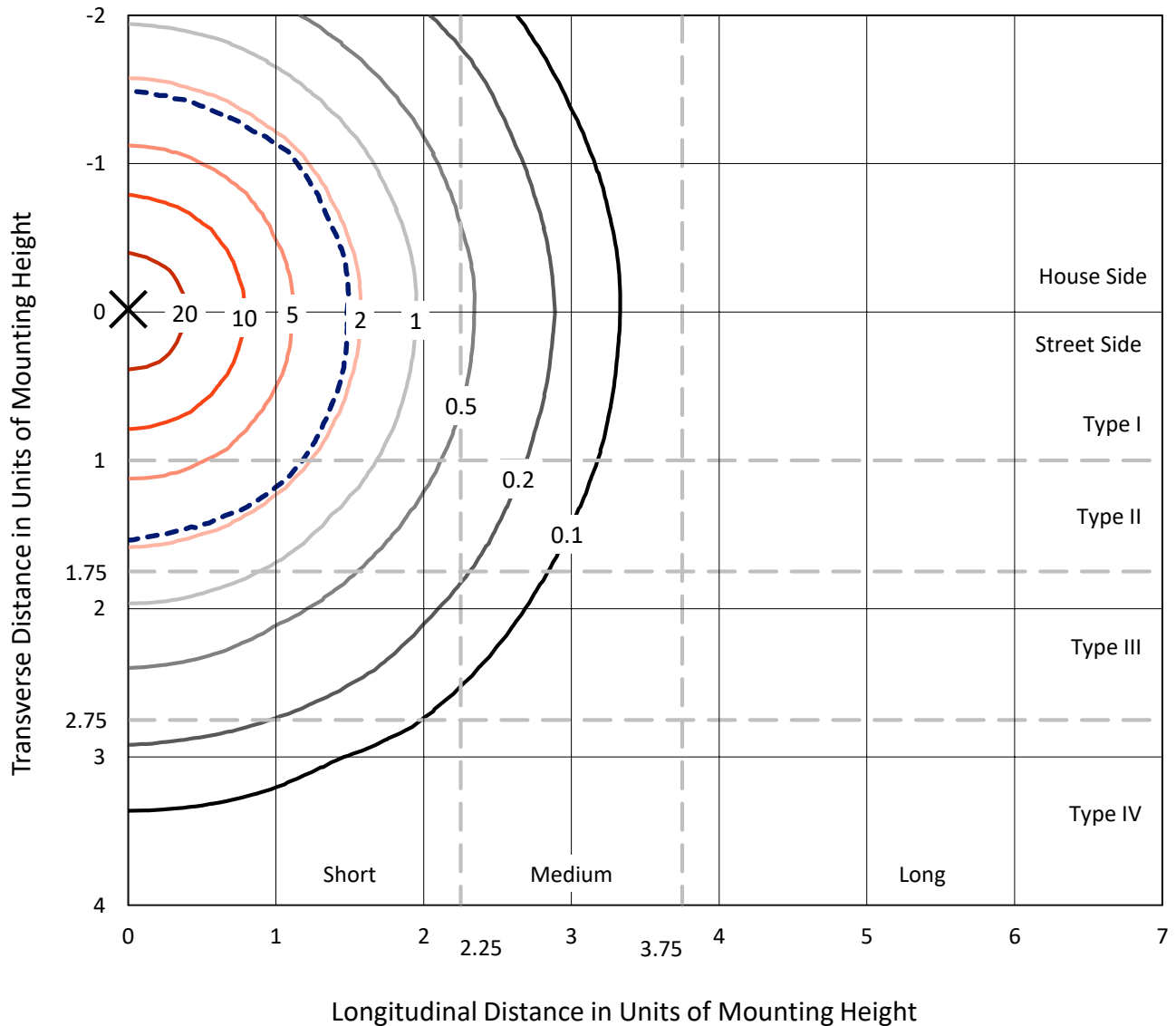
Input Watts (W): 50
Input Voltage (V): 120.0
Input Current (Ain): 0.422
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

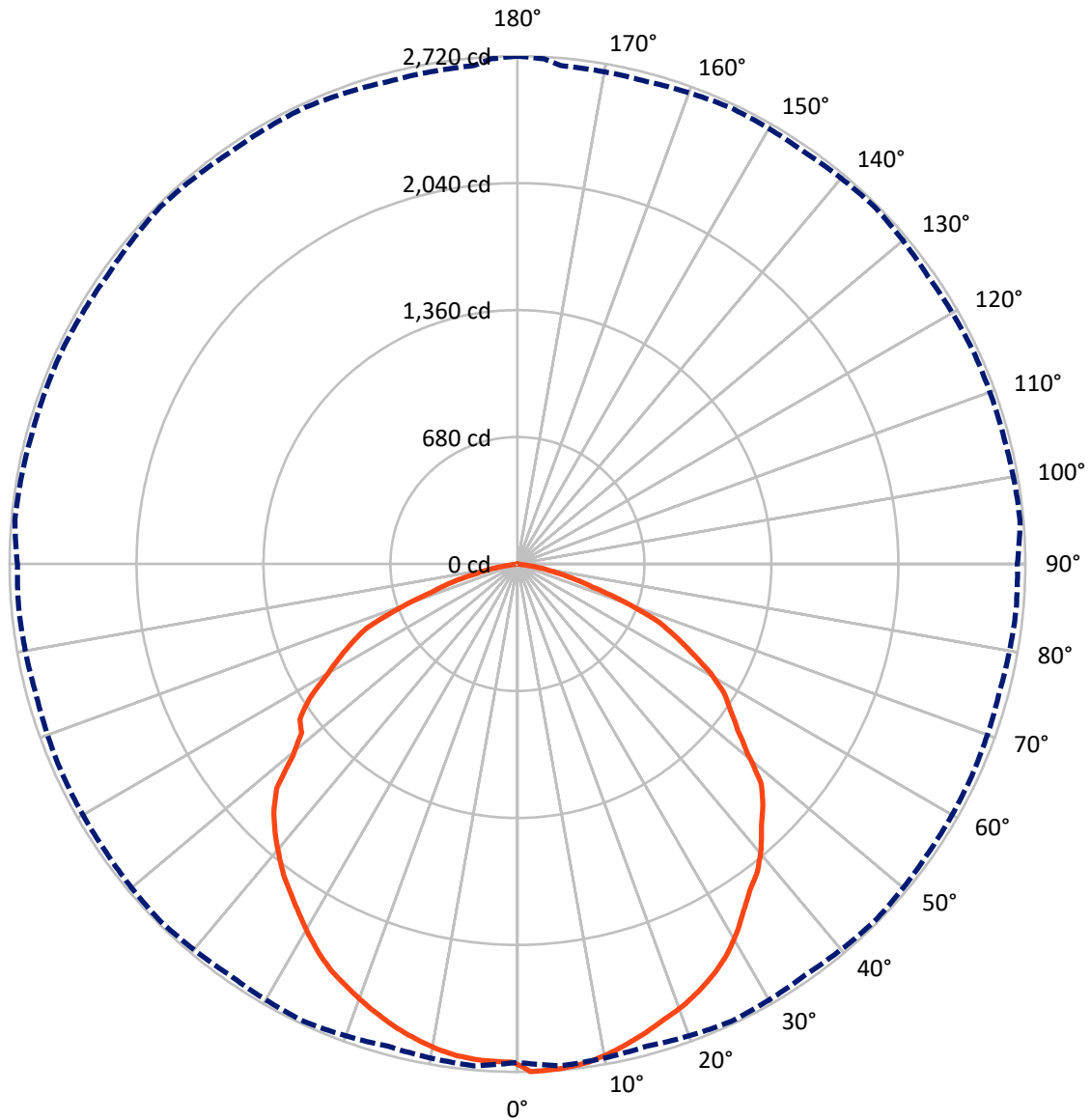
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 180-Deg Lateral - - - Horizontal Cone Through 1-Deg Vertical

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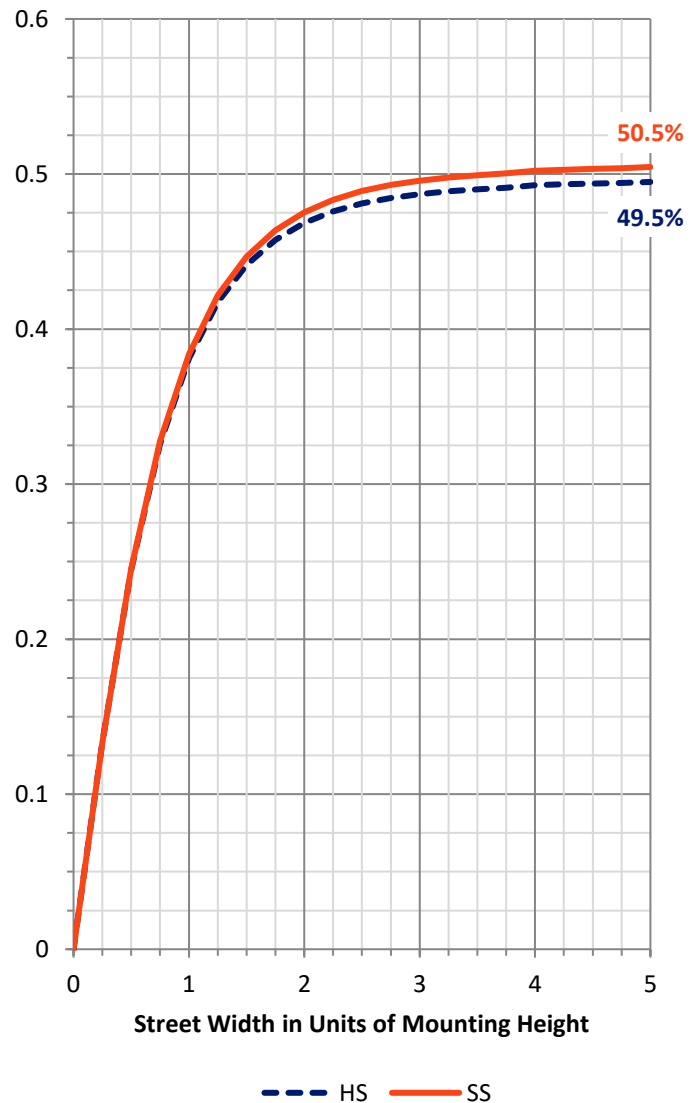
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3672.9	0.0	3672.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3725.2	0.0	3725.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	7398.1	0.0	7398.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.5
10°-20°	729.8	9.9
20°-30°	1109.0	15.0
30°-40°	1345.7	18.2
40°-50°	1398.6	18.9
50°-60°	1261.8	17.1
60°-70°	908.9	12.3
70°-80°	361.2	4.9
80°-90°	27.8	0.4
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°	7398.1	100.0
0°-180°	7398.1	100.0



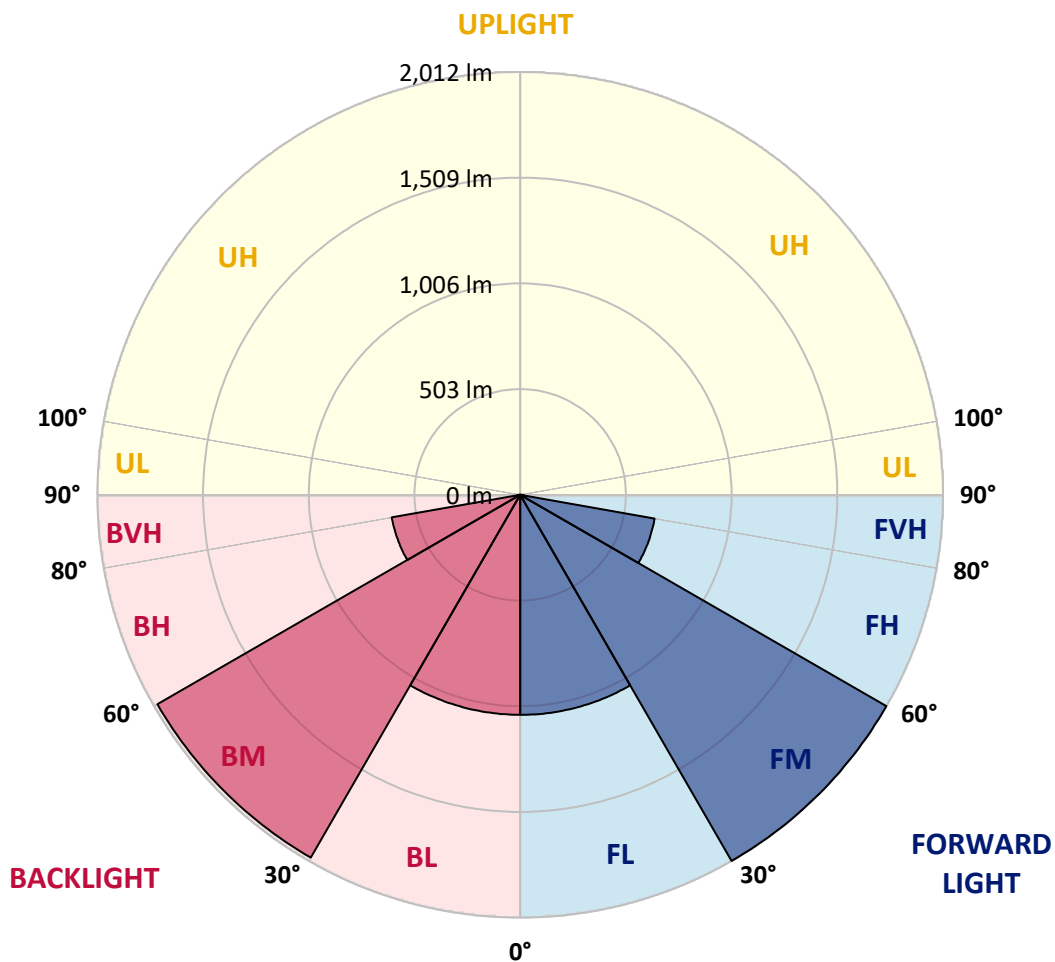
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1047.3	14.2			
FM	(30°-60°)	2012.4	27.2			
FH	(60°-80°)	649.7	8.8			G0/660
FVH	(80°-90°)	15.8	0.2			G1/100
BL	(0°-30°)	1047.0	14.2	B3/2500		
BM	(30°-60°)	1993.6	26.9	B2/2500		
BH	(60°-80°)	620.4	8.4	B2/1000		G0/660
BVH	(80°-90°)	12.0	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2691	2691	2691	2691	2691	2691	2691	2691	2691	2691	2691
1°	2669	2698	2674	2704	2687	2705	2690	2685	2671	2682	2678
2.5°	2667	2697	2673	2703	2687	2705	2689	2685	2672	2682	2677
5°	2664	2691	2669	2699	2686	2700	2687	2685	2671	2681	2678
7.5°	2653	2678	2659	2688	2681	2694	2681	2683	2670	2681	2676
10°	2632	2655	2637	2668	2666	2674	2661	2663	2645	2655	2648
12.5°	2602	2624	2609	2636	2640	2641	2625	2625	2607	2613	2607
15°	2569	2589	2576	2601	2605	2605	2585	2586	2569	2572	2571
17.5°	2528	2545	2536	2560	2569	2557	2542	2547	2530	2532	2529
20°	2486	2503	2496	2519	2528	2511	2498	2504	2485	2486	2486
22.5°	2441	2456	2450	2471	2486	2466	2450	2455	2436	2437	2436
25°	2397	2407	2402	2421	2439	2414	2399	2401	2382	2379	2383
27.5°	2340	2349	2349	2366	2387	2358	2341	2349	2325	2319	2322
30°	2275	2287	2289	2315	2338	2303	2286	2289	2269	2254	2255
32.5°	2207	2217	2224	2244	2276	2248	2230	2229	2209	2201	2201
35°	2142	2144	2149	2170	2202	2169	2164	2159	2143	2147	2153
37.5°	2082	2080	2075	2085	2106	2075	2080	2088	2081	2086	2096
40°	2010	2012	1998	1993	1988	1981	1991	1999	2003	2012	2012
42.5°	1940	1937	1913	1899	1908	1889	1924	1909	1902	1891	1893
45°	1861	1858	1828	1797	1836	1805	1851	1823	1791	1759	1754
47.5°	1762	1758	1754	1728	1776	1730	1710	1723	1705	1674	1672
50°	1580	1606	1659	1661	1669	1635	1575	1621	1627	1620	1636
52.5°	1467	1478	1540	1521	1590	1537	1490	1547	1527	1514	1535
55°	1432	1416	1427	1398	1483	1449	1422	1427	1422	1392	1380
57.5°	1330	1317	1301	1327	1313	1338	1330	1299	1293	1290	1289
60°	1194	1208	1218	1238	1195	1205	1216	1193	1203	1202	1206
62.5°	1087	1097	1089	1100	1088	1047	1075	1080	1071	1057	1051
65°	983	971	966	913	964	923	942	940	934	930	942
67.5°	878	866	843	787	772	777	773	786	789	784	785
70°	669	655	648	679	655	630	640	614	603	615	631
72.5°	474	478	485	463	521	489	468	454	465	459	462
75°	361	353	342	326	338	352	338	337	321	317	325
77.5°	223	226	210	252	237	212	227	220	216	201	210
80°	137	136	149	144	142	139	141	129	129	123	127
82.5°	41	39	46	39	47	48	50	43	39	39	39
85°	5	4	4	4	5	5	5	4	5	5	4
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	177°	180°
0°	2691	2691	2691	2691	2691	2691	2691	2691	2691	2691	2691
1°	2702	2692	2694	2685	2705	2689	2697	2675	2679	2709	2720
2.5°	2702	2692	2693	2682	2704	2687	2694	2671	2678	2708	2717
5°	2705	2691	2690	2680	2697	2676	2681	2662	2669	2699	2710
7.5°	2702	2689	2689	2680	2692	2663	2667	2647	2655	2684	2696
10°	2678	2663	2667	2660	2678	2646	2645	2622	2629	2658	2669
12.5°	2634	2621	2621	2619	2644	2617	2616	2589	2598	2624	2635
15°	2598	2582	2580	2583	2605	2580	2579	2559	2562	2588	2599
17.5°	2558	2541	2543	2543	2565	2540	2542	2524	2530	2553	2560
20°	2514	2502	2504	2505	2523	2500	2503	2490	2493	2516	2528
22.5°	2466	2457	2461	2462	2478	2452	2455	2449	2455	2478	2485
25°	2416	2405	2405	2407	2424	2398	2400	2402	2411	2428	2437
27.5°	2352	2341	2346	2348	2366	2340	2346	2344	2349	2369	2379
30°	2283	2276	2281	2285	2302	2289	2289	2286	2286	2302	2306
32.5°	2228	2210	2215	2224	2245	2230	2225	2208	2204	2218	2221
35°	2172	2147	2140	2154	2165	2145	2133	2117	2123	2140	2144
37.5°	2112	2076	2065	2067	2068	2046	2041	2042	2057	2074	2089
40°	2030	1988	1983	1984	1977	1951	1962	1972	1986	2001	2009
42.5°	1912	1894	1898	1908	1907	1868	1880	1908	1897	1909	1916
45°	1792	1807	1816	1846	1834	1794	1783	1810	1826	1836	1843
47.5°	1700	1709	1684	1709	1731	1713	1717	1736	1740	1757	1757
50°	1644	1617	1581	1573	1646	1625	1601	1621	1588	1584	1598
52.5°	1532	1505	1530	1493	1540	1532	1470	1488	1468	1473	1478
55°	1408	1405	1422	1423	1427	1424	1376	1395	1381	1388	1386
57.5°	1291	1308	1268	1297	1320	1255	1286	1269	1299	1309	1305
60°	1213	1204	1156	1180	1191	1152	1175	1186	1200	1197	1189
62.5°	1076	1070	1043	1052	1022	1025	1042	1041	1025	1033	1047
65°	947	910	902	894	885	911	873	919	932	929	928
67.5°	798	760	762	766	757	739	763	772	792	803	801
70°	619	598	592	622	591	610	596	579	593	603	605
72.5°	465	455	437	439	457	445	425	443	439	422	421
75°	326	319	321	327	320	318	304	310	303	297	299
77.5°	215	204	206	216	198	211	193	191	193	189	192
80°	126	126	118	128	116	120	110	113	121	119	115
82.5°	37	32	27	29	23	22	18	19	19	19	18
85°	4	4	3	4	3	4	3	3	2	2	3
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

(END OF REPORT)