

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: P407854

Luminaire Tested: **ALP7A30**

Issue Date: 08/27/2020

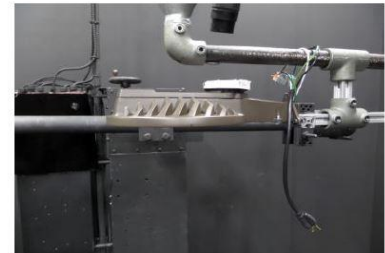
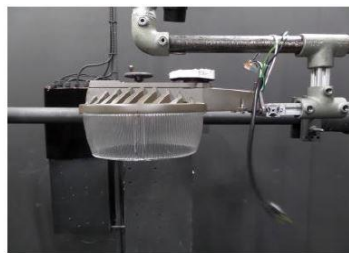
Test Information

Test Method: LM-79-08
Report Number: P407854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2006-852-6)
Test Lab: INNOVATIONS CENTER(G1)
Issue Date: 08/27/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ALP7A30
Description: HALO OUTDOOR BARN LIGHT PREMIUM 7000LM
Light Source: (78) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7387.6 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Circular (Dia: 0.67' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

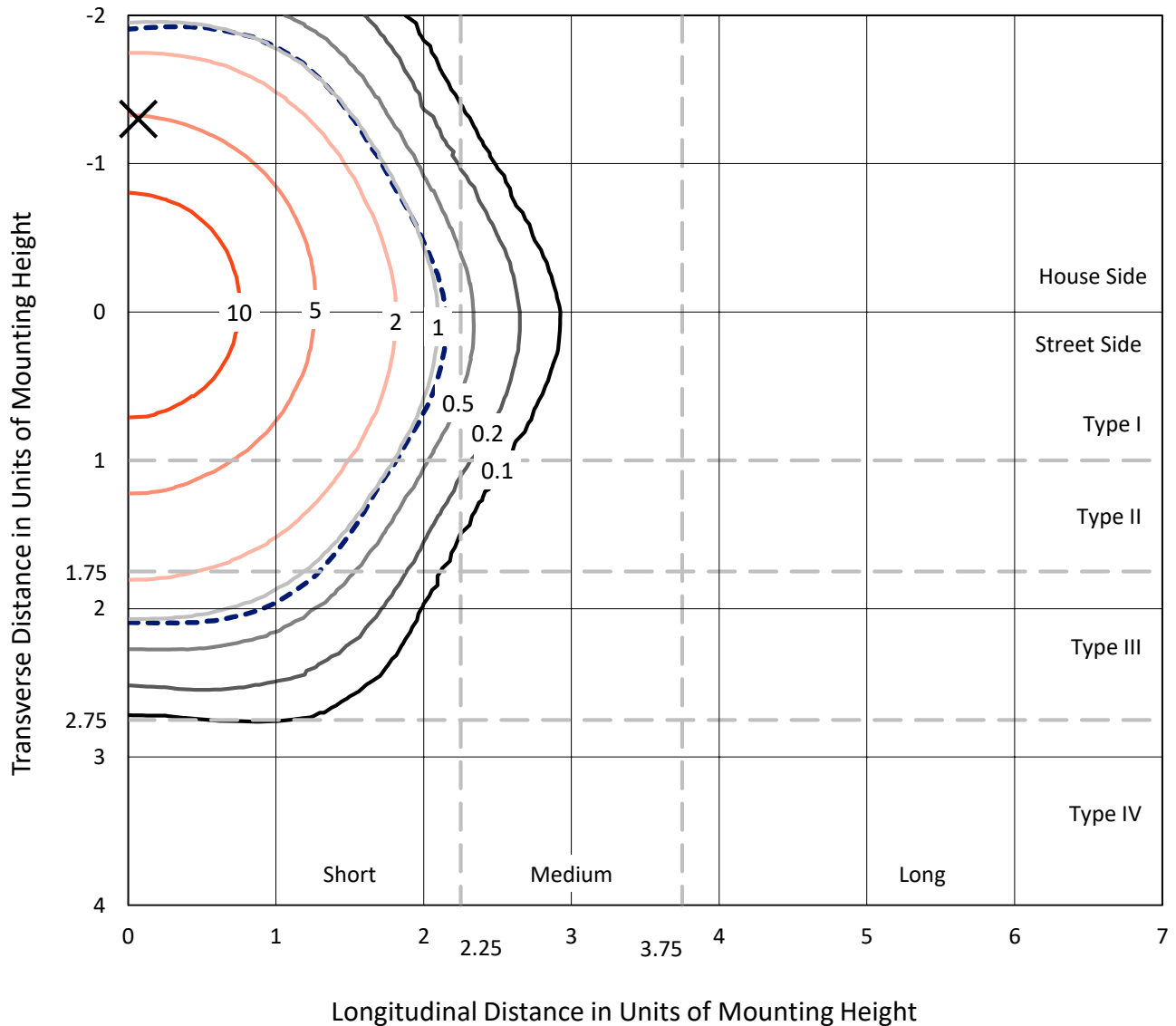
Input Watts (W): 53.2
Input Voltage (V): 120.0
Input Current (Ain): 0.452
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

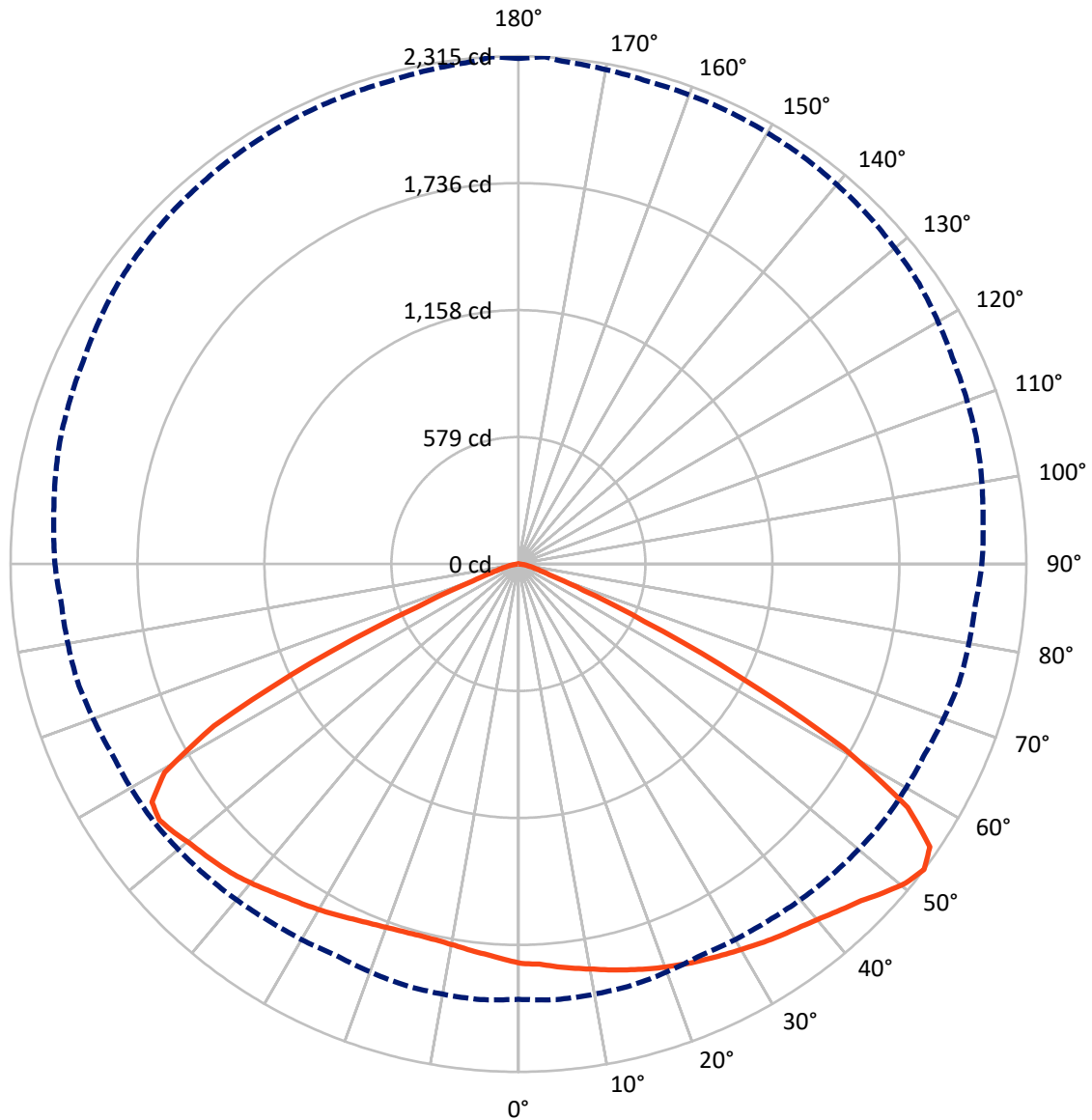
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 177-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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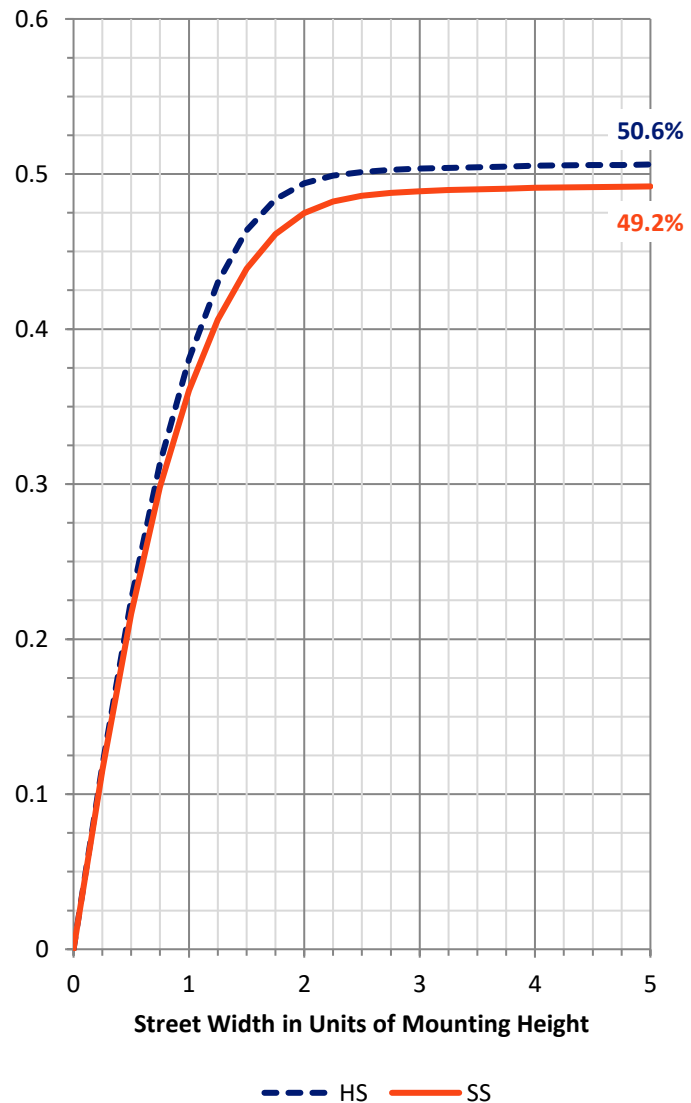
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3755.5	0.0	3755.5
	% Fixture	50.8	0.0	50.8
Street Side	Lumens	3632.0	0.0	3632.0
	% Fixture	49.2	0.0	49.2
Total	Lumens	7387.6	0.0	7387.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	2.4
10°-20°	523.5	7.1
20°-30°	877.6	11.9
30°-40°	1230.5	16.7
40°-50°	1583.5	21.4
50°-60°	1855.3	25.1
60°-70°	999.6	13.5
70°-80°	126.1	1.7
80°-90°	17.5	0.2
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°	7387.6	100.0
0°-180°	7387.6	100.0

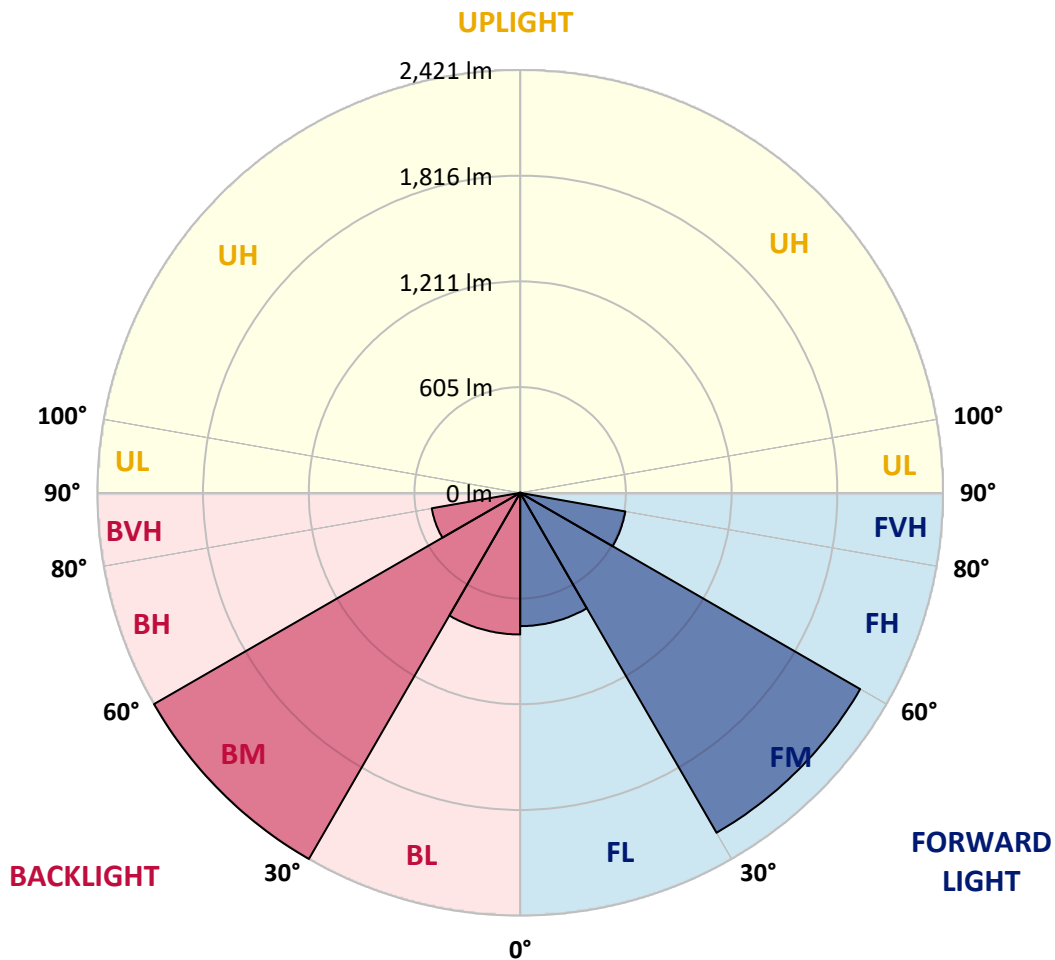


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.7	10.3			
FM (30°-60°)	2247.9	30.4			
FH (60°-80°)	611.6	8.3			G0/660
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	811.4	11.0	B2/1000		
BM (30°-60°)	2421.3	32.8	B2/2500		
BH (60°-80°)	514.2	7.0	B2/1000		G0/660
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821
2.5°	1795	1809	1808	1804	1798	1818	1819	1811	1825	1816	1824
5°	1779	1792	1794	1790	1785	1809	1809	1805	1820	1814	1824
7.5°	1766	1780	1782	1777	1776	1799	1802	1798	1818	1815	1825
10°	1754	1768	1773	1768	1769	1793	1796	1798	1818	1818	1829
12.5°	1744	1762	1766	1764	1765	1792	1798	1800	1823	1824	1837
15°	1744	1758	1764	1764	1766	1796	1803	1807	1831	1830	1846
17.5°	1746	1761	1767	1765	1771	1800	1810	1814	1841	1843	1856
20°	1751	1767	1773	1769	1780	1809	1818	1825	1853	1857	1870
22.5°	1760	1777	1780	1778	1786	1821	1830	1838	1868	1870	1886
25°	1773	1789	1790	1787	1796	1831	1842	1852	1882	1884	1902
27.5°	1790	1805	1805	1796	1809	1842	1853	1864	1896	1902	1916
30°	1807	1821	1819	1809	1822	1853	1866	1879	1909	1915	1932
32.5°	1824	1838	1834	1823	1835	1866	1880	1890	1920	1926	1944
35°	1841	1855	1849	1838	1851	1881	1895	1904	1932	1934	1954
37.5°	1863	1875	1869	1855	1867	1897	1911	1918	1941	1944	1964
40°	1885	1899	1892	1876	1886	1913	1926	1932	1954	1954	1977
42.5°	1907	1921	1915	1896	1906	1932	1943	1949	1972	1970	1995
45°	1924	1939	1934	1915	1924	1949	1964	1972	1995	1997	2019
47.5°	1940	1954	1951	1930	1942	1969	1986	1996	2022	2026	2049
50°	1958	1970	1967	1948	1961	1990	2013	2022	2053	2059	2084
52.5°	1984	1993	1989	1968	1985	2012	2036	2045	2080	2091	2113
55°	2005	2013	2006	1986	2002	2027	2047	2059	2095	2105	2127
57.5°	1989	1994	1985	1975	1990	2004	2017	2024	2057	2062	2075
60°	1865	1877	1881	1892	1906	1880	1861	1865	1907	1903	1906
62.5°	1560	1579	1617	1649	1649	1566	1488	1548	1582	1583	1598
65°	1033	1052	1180	1255	1227	1099	956	995	1135	1173	1157
67.5°	484	515	683	792	749	592	473	469	632	714	687
70°	218	224	321	446	417	289	205	204	287	364	365
72.5°	124	128	161	245	234	146	117	116	148	202	207
75°	83	84	100	145	141	94	81	81	96	127	131
77.5°	60	59	68	93	91	65	58	58	67	86	87
80°	40	40	46	60	61	46	40	40	47	57	58
82.5°	25	25	29	35	35	29	25	26	29	32	32
85°	10	10	11	13	14	11	8	10	10	12	13
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°	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821	1821
2.5°	1823	1827	1821	1834	1836	1836	1840	1836	1833	1826	1845
5°	1823	1830	1829	1842	1847	1851	1856	1853	1850	1844	1861
7.5°	1826	1836	1835	1855	1859	1867	1871	1869	1867	1861	1878
10°	1832	1843	1846	1867	1874	1882	1888	1886	1884	1878	1897
12.5°	1838	1852	1857	1882	1888	1898	1906	1904	1902	1899	1914
15°	1847	1862	1870	1893	1904	1916	1925	1922	1923	1919	1934
17.5°	1860	1875	1881	1908	1919	1934	1941	1939	1943	1940	1952
20°	1876	1889	1894	1922	1936	1953	1957	1956	1960	1959	1972
22.5°	1890	1904	1909	1937	1952	1966	1976	1972	1978	1978	1989
25°	1904	1919	1924	1953	1968	1983	1993	1988	1993	1996	2004
27.5°	1922	1935	1941	1970	1986	2004	2008	2006	2012	2014	2022
30°	1937	1953	1961	1989	2006	2025	2028	2025	2028	2033	2039
32.5°	1950	1973	1979	2009	2024	2040	2049	2043	2049	2055	2057
35°	1964	1989	1997	2029	2043	2062	2066	2063	2069	2075	2076
37.5°	1976	2004	2014	2047	2063	2081	2088	2085	2090	2096	2096
40°	1991	2023	2036	2067	2083	2099	2111	2105	2114	2122	2123
42.5°	2009	2046	2058	2093	2108	2127	2137	2135	2144	2155	2152
45°	2032	2072	2092	2124	2142	2159	2169	2171	2183	2190	2189
47.5°	2065	2104	2128	2161	2181	2198	2206	2212	2228	2239	2232
50°	2096	2140	2166	2204	2225	2241	2248	2250	2274	2287	2280
52.5°	2126	2164	2189	2229	2251	2265	2274	2278	2300	2315	2305
55°	2136	2161	2178	2211	2229	2240	2246	2241	2261	2276	2267
57.5°	2076	2080	2071	2097	2107	2112	2110	2090	2081	2093	2067
60°	1894	1851	1782	1796	1837	1849	1847	1781	1707	1703	1677
62.5°	1562	1426	1312	1312	1370	1428	1412	1296	1144	1128	1093
65°	1110	933	784	776	879	968	930	795	654	630	613
67.5°	652	471	372	360	479	575	533	411	330	321	321
70°	326	225	176	175	233	296	286	205	164	160	154
72.5°	185	129	108	109	133	177	170	123	104	105	103
75°	117	87	78	79	90	119	112	84	74	75	75
77.5°	80	62	56	57	65	84	82	61	54	55	55
80°	54	44	40	41	45	58	56	44	39	40	38
82.5°	32	28	26	26	29	33	32	28	26	25	25
85°	12	10	10	10	12	13	14	12	10	9	9
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)