

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: P509439

Luminaire Tested: **VERD-G-CA2-100-722-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-722-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 930mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12303 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

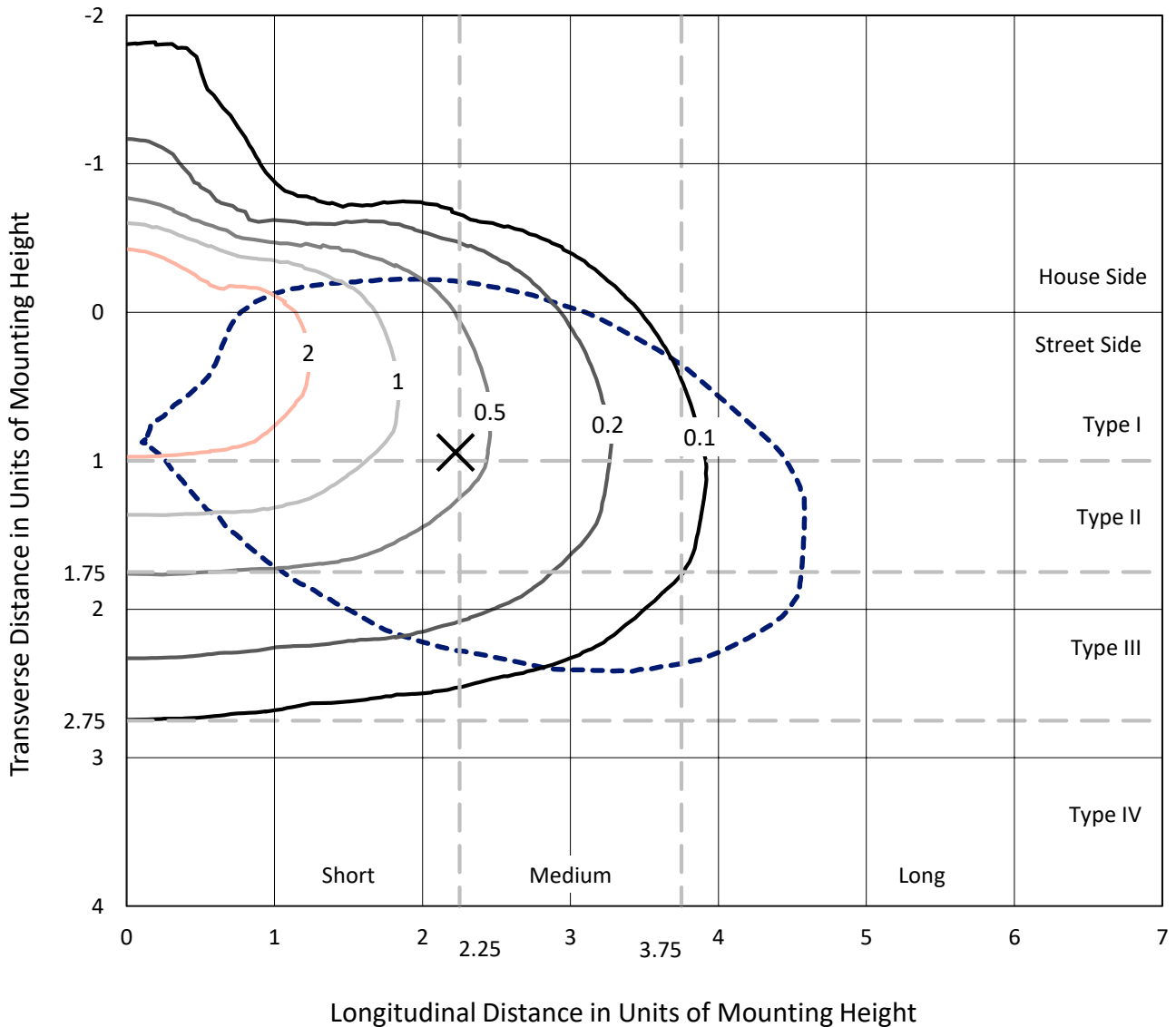
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509439
 CATALOG NUMBER: VERD-G-CA2-100-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

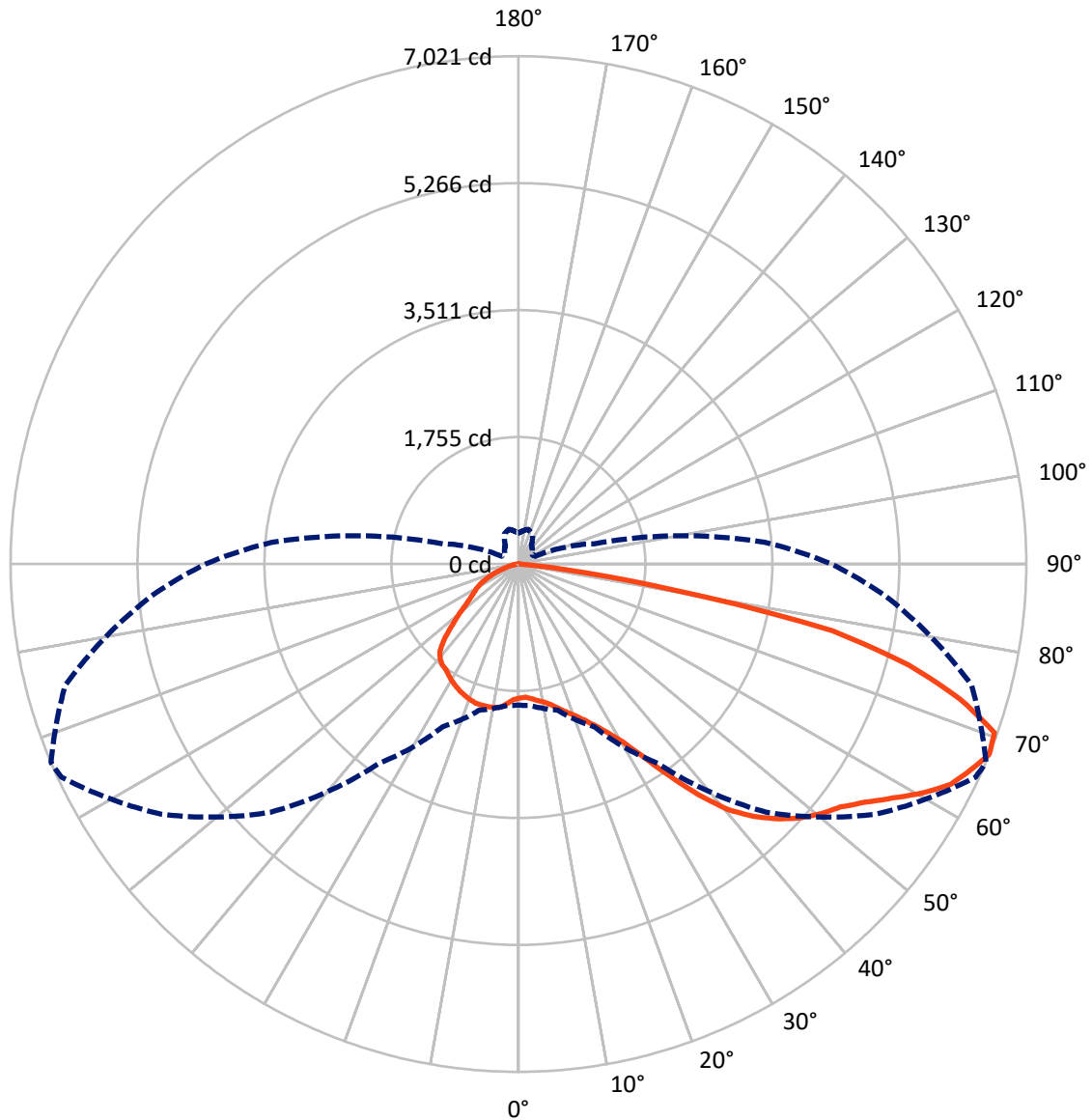
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

REPORT NUMBER: P509439
CATALOG NUMBER: VERD-G-CA2-100-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509439

CATALOG NUMBER: VERD-G-CA2-100-722-U-T3

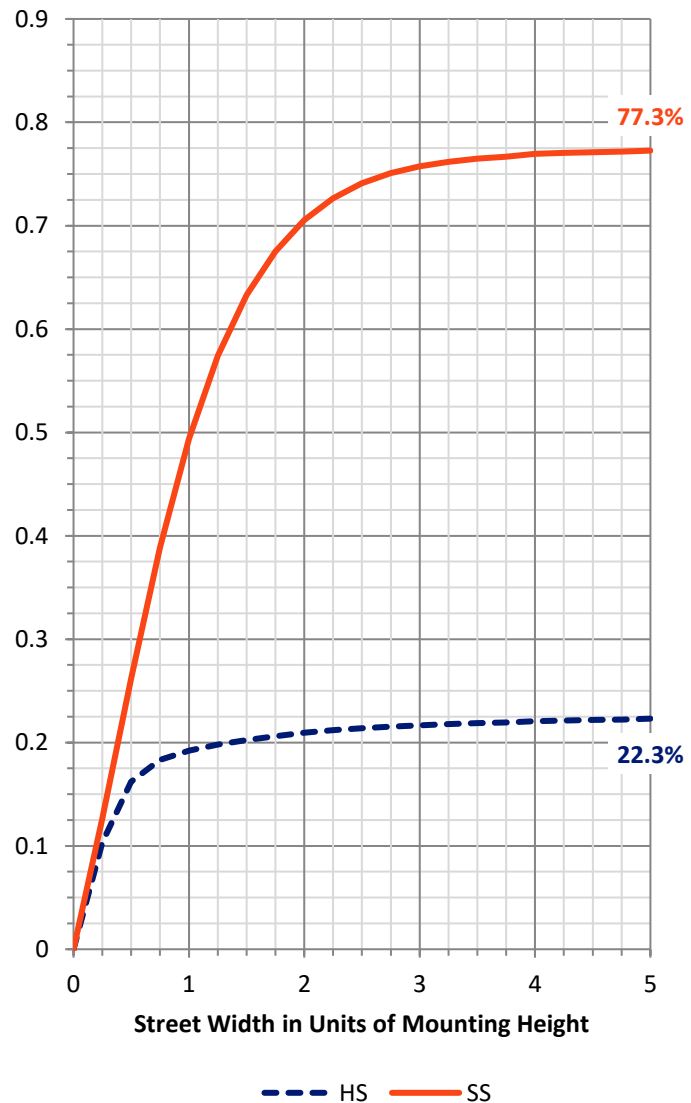
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2791.6	0.0	2791.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9511.4	0.0	9511.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	12303.0	0.0	12303.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	1.5
10°-20°	594.7	4.8
20°-30°	1019.9	8.3
30°-40°	1517.9	12.3
40°-50°	2075.3	16.9
50°-60°	2492.8	20.3
60°-70°	2644.5	21.5
70°-80°	1615.5	13.1
80°-90°	154.7	1.3
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°	12303.0	100.0
0°-180°	12303.0	100.0



REPORT NUMBER: P509439

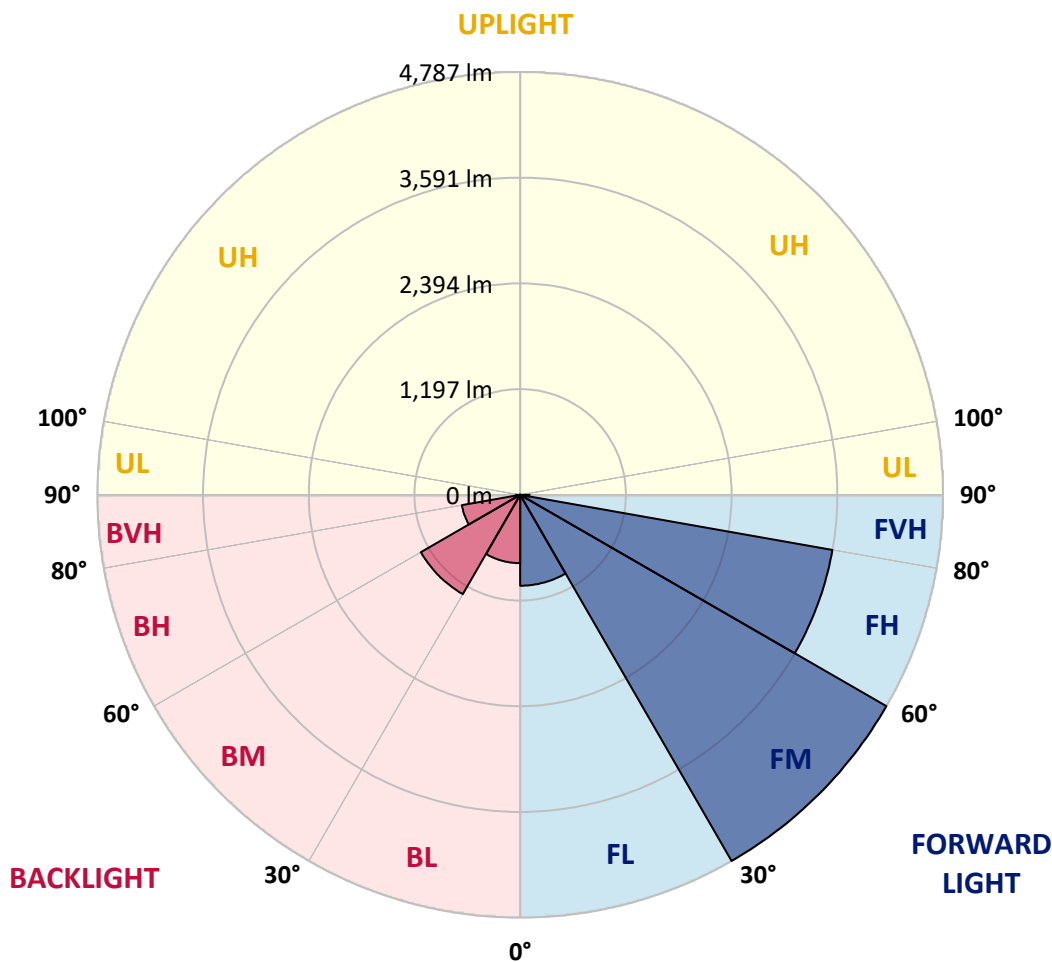
CATALOG NUMBER: VERD-G-CA2-100-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.0	8.4			
FM (30°-60°)	4787.4	38.9			
FH (60°-80°)	3589.7	29.2			G2/5000
FVH (80°-90°)	105.4	0.9			G2/225
BL (0°-30°)	773.4	6.3	B2/1000		
BM (30°-60°)	1298.5	10.6	B2/2500		
BH (60°-80°)	670.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	49.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P509439

CATALOG NUMBER: VERD-G-CA2-100-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1884.3	1893.3	1878.6	1868.8	1858.2	1863.9	1850.1	1850.1	1843.5	1854.1	1847.6
5°	1945.4	1953.6	1928.3	1907.9	1906.3	1889.2	1887.6	1879.4	1869.6	1878.6	1887.6
7.5°	2026.9	2023.7	2005.7	1982.1	1958.5	1948.7	1932.4	1920.2	1905.5	1913.6	1916.1
10°	2126.4	2120.6	2097.0	2059.5	2040.8	2013.9	1973.1	1950.3	1939.7	1947.9	1950.3
12.5°	2232.3	2225.0	2202.2	2160.6	2128.0	2085.6	2039.1	2002.5	1995.1	1987.0	2000.8
15°	2351.3	2338.3	2318.7	2285.3	2234.8	2179.3	2115.8	2080.7	2070.1	2056.3	2049.7
17.5°	2480.1	2478.4	2453.2	2416.5	2365.2	2288.5	2207.0	2152.4	2152.4	2146.7	2111.7
20°	2618.6	2612.1	2586.8	2566.5	2493.9	2413.2	2313.8	2244.5	2237.2	2225.8	2167.9
22.5°	2758.0	2758.8	2726.2	2710.7	2656.9	2553.4	2427.9	2358.6	2344.0	2328.5	2228.2
25°	2884.3	2885.9	2876.2	2847.6	2803.6	2708.3	2577.1	2485.0	2476.8	2455.6	2334.2
27.5°	3012.3	3032.6	3004.1	3007.4	2987.8	2878.6	2747.4	2635.7	2643.9	2597.4	2431.2
30°	3163.9	3171.2	3157.3	3161.4	3149.2	3077.5	2950.3	2859.9	2859.9	2806.9	2595.8
32.5°	3285.3	3278.8	3279.6	3322.0	3327.7	3288.6	3184.2	3154.9	3180.2	3173.6	2983.7
35°	3345.6	3357.0	3388.8	3485.8	3533.1	3509.4	3497.2	3536.3	3599.9	3640.6	3407.5
37.5°	3423.0	3458.1	3498.0	3606.4	3693.6	3758.8	3825.6	3954.4	4045.7	4098.7	3810.2
40°	3502.9	3506.2	3586.0	3720.5	3890.8	3994.4	4153.3	4375.0	4464.6	4424.7	4033.5
42.5°	3441.0	3449.1	3560.0	3799.6	4013.1	4278.0	4449.9	4705.9	4767.8	4646.4	4264.1
45°	3361.1	3376.6	3516.8	3799.6	4147.6	4538.0	4734.4	5019.6	5027.0	4863.1	4403.5
47.5°	3290.2	3303.2	3450.7	3770.2	4273.9	4766.2	4963.4	5195.7	5245.4	5040.0	4588.5
50°	3195.6	3228.2	3373.3	3744.1	4332.6	4925.1	5166.3	5407.6	5424.7	5207.1	4727.0
52.5°	3093.0	3121.5	3300.0	3695.2	4407.6	5056.3	5300.8	5611.3	5579.5	5430.4	4882.7
55°	2954.4	2979.7	3185.9	3617.0	4416.5	5127.2	5397.8	5800.4	5812.6	5616.2	5033.5
57.5°	2795.5	2837.9	3025.3	3471.9	4334.2	5148.4	5564.9	6056.3	6103.6	5846.0	5154.1
60°	2623.5	2656.9	2869.6	3317.9	4225.0	5228.3	5793.9	6388.0	6425.5	6046.5	5203.0
62.5°	2447.5	2475.2	2651.2	3086.4	4024.5	5243.8	5993.6	6721.4	6709.1	6225.0	5270.7
65°	2228.2	2230.7	2396.9	2806.9	3745.8	5132.9	6096.3	6856.7	6868.9	6387.2	5193.2
67.5°	1949.5	1965.0	2091.3	2480.9	3366.0	4854.2	6031.1	6973.2	7021.3	6487.5	5094.6
70°	1552.6	1561.6	1693.6	2056.3	2861.5	4423.0	5907.2	6991.1	6980.5	6357.9	4823.2
72.5°	1104.3	1138.6	1227.4	1445.8	2195.6	3620.3	5347.3	6437.7	6388.8	5857.5	4302.4
75°	709.9	713.1	802.0	944.6	1285.3	2566.5	4457.3	5549.4	5569.8	5080.8	3502.9
77.5°	234.7	264.9	294.2	398.5	533.0	1068.5	3009.0	4374.1	4436.1	4002.5	2390.4
80°	103.5	103.5	175.2	225.8	287.7	458.0	1200.5	1979.7	2169.5	1866.4	921.0
82.5°	75.8	77.4	117.4	134.5	113.3	190.7	431.1	634.1	672.4	603.9	365.9
85°	43.2	44.8	50.5	57.9	48.1	77.4	95.4	97.8	98.6	85.6	66.8
87.5°	19.6	19.6	17.9	15.5	9.0	5.7	5.7	4.1	4.9	4.1	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509439

CATALOG NUMBER: VERD-G-CA2-100-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1845.2	1853.3	1871.3	1874.5	1882.7	1894.9	1910.4	1917.7	1942.2	1953.6	1956.8
5°	1889.2	1893.3	1924.2	1934.8	1971.5	1990.2	2006.5	2018.0	2048.1	2055.4	2068.5
7.5°	1922.6	1936.5	1973.9	1997.6	2020.4	2040.0	2038.3	2065.2	2080.7	2092.9	2097.8
10°	1956.8	1964.2	2002.5	2013.1	2030.2	2044.9	2048.9	2056.3	2060.3	2077.5	2083.2
12.5°	2009.8	2004.9	2009.8	2018.8	2032.6	2029.4	2038.3	2027.7	2033.4	2055.4	2047.3
15°	2048.9	2037.5	2016.3	2017.1	2008.2	2004.1	1991.1	1982.1	1981.3	1986.2	1994.3
17.5°	2092.9	2059.5	2020.4	2009.8	1976.4	1943.8	1921.0	1896.5	1892.4	1897.3	1891.6
20°	2131.2	2086.4	2018.8	1985.4	1920.2	1861.5	1828.1	1791.4	1789.8	1786.5	1780.0
22.5°	2177.7	2121.5	2018.0	1950.3	1872.9	1778.3	1709.1	1681.4	1647.9	1661.0	1659.4
25°	2247.0	2176.9	2025.3	1912.8	1787.3	1674.8	1586.0	1524.9	1491.5	1484.1	1487.4
27.5°	2332.6	2239.6	2029.4	1865.6	1709.1	1548.5	1407.5	1315.4	1295.0	1268.2	1270.6
30°	2457.2	2325.2	2048.9	1813.4	1594.2	1387.1	1219.3	1099.4	1065.2	1070.9	1072.5
32.5°	2751.5	2501.3	2062.8	1753.1	1467.8	1208.7	989.4	869.6	842.7	852.5	858.2
35°	3137.8	2838.7	2138.6	1675.7	1324.4	1000.0	758.8	691.1	696.8	715.6	720.5
37.5°	3520.8	3196.5	2305.7	1608.0	1141.0	765.3	605.6	565.6	599.0	617.0	622.7
40°	3756.4	3434.4	2489.8	1503.7	907.9	562.4	461.3	438.5	476.8	518.3	538.7
42.5°	3994.4	3629.2	2609.7	1376.5	649.6	409.1	343.1	361.9	424.6	466.2	476.0
45°	4145.9	3729.5	2621.1	1174.4	432.8	317.0	313.0	352.9	417.3	450.7	456.4
47.5°	4293.5	3864.0	2573.0	940.5	326.0	301.6	310.5	357.0	420.5	458.0	457.2
50°	4440.2	3996.0	2468.7	746.5	308.1	291.8	315.4	365.1	426.2	454.8	454.8
52.5°	4529.8	4061.2	2259.2	594.1	296.7	286.1	317.9	368.4	420.5	436.8	434.4
55°	4637.4	4076.7	2118.2	494.7	284.4	282.0	322.7	377.3	419.7	421.4	415.7
57.5°	4693.6	4038.4	2003.3	420.5	273.8	283.6	328.4	379.8	443.4	462.9	466.2
60°	4669.2	3991.9	1872.9	374.1	264.1	281.2	326.8	398.5	516.7	557.5	550.1
62.5°	4645.5	3904.7	1653.7	335.8	253.5	282.8	325.2	441.7	607.2	564.8	542.0
65°	4560.0	3723.8	1368.4	299.1	240.4	283.6	321.9	488.2	621.9	570.5	531.4
67.5°	4325.2	3422.2	1082.3	260.0	224.9	272.2	314.6	458.8	498.0	448.3	427.1
70°	3975.6	2985.4	742.5	224.9	206.2	258.4	309.7	434.4	467.8	432.8	405.9
72.5°	3411.6	2345.6	411.6	188.3	180.9	241.2	308.9	428.7	471.1	370.8	341.5
75°	2594.2	1555.8	267.3	147.5	148.3	215.2	294.2	409.1	456.4	348.8	308.9
77.5°	1528.1	655.3	186.6	105.1	115.7	167.1	261.6	392.0	432.0	341.5	308.9
80°	519.2	288.5	121.4	70.9	70.9	106.8	186.6	320.3	384.7	332.5	329.3
82.5°	269.8	183.4	77.4	44.0	40.8	51.3	114.9	220.1	308.9	282.0	321.1
85°	53.8	38.3	24.5	17.9	19.6	26.1	40.8	111.7	195.6	217.6	260.8
87.5°	4.1	3.3	4.9	4.9	4.9	4.9	5.7	27.7	78.2	96.2	119.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)