

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: P509437

Luminaire Tested: **VERD-G-CA2-100-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)
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-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 930mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12429 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

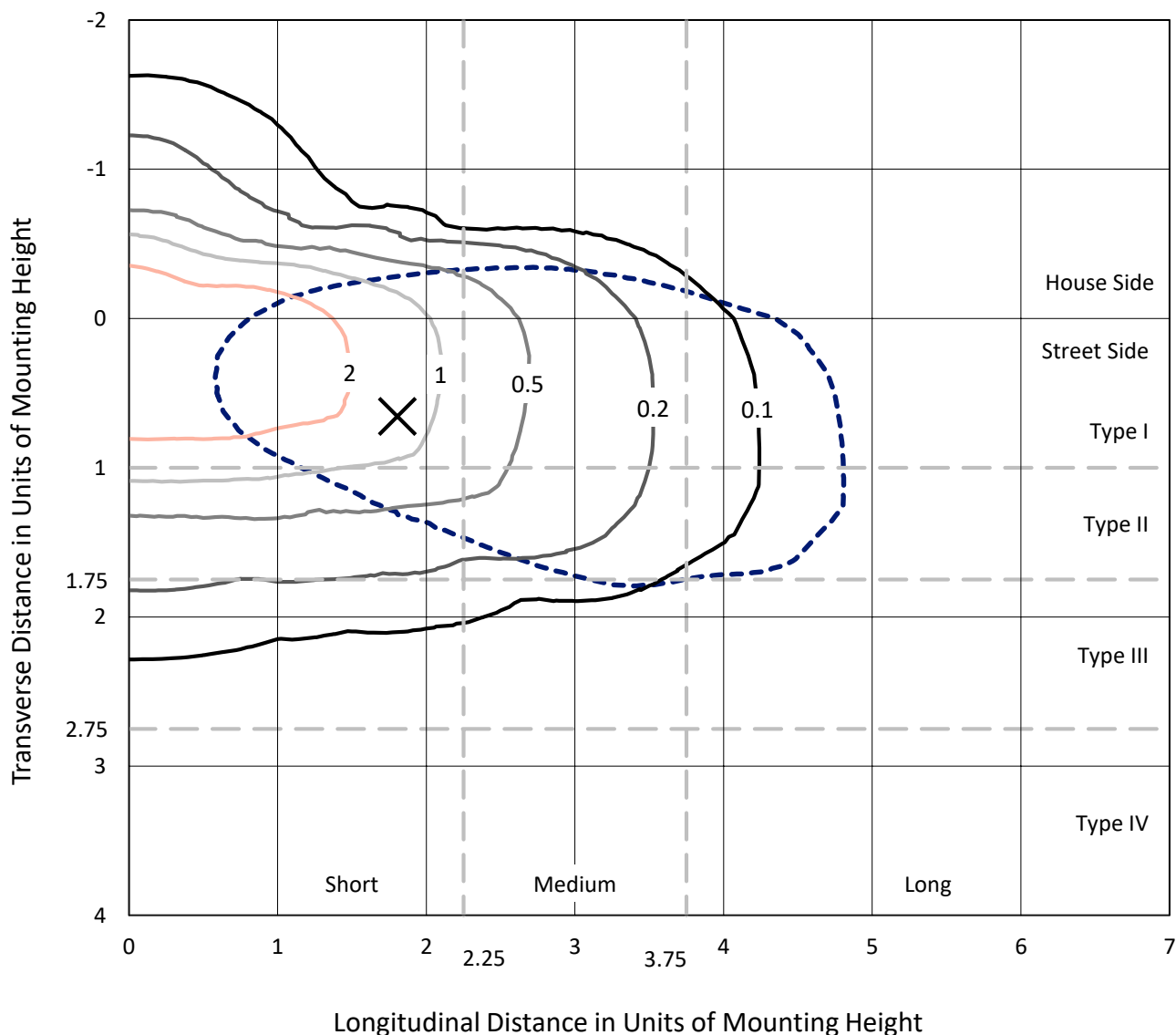
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509437
 CATALOG NUMBER: VERD-G-CA2-100-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

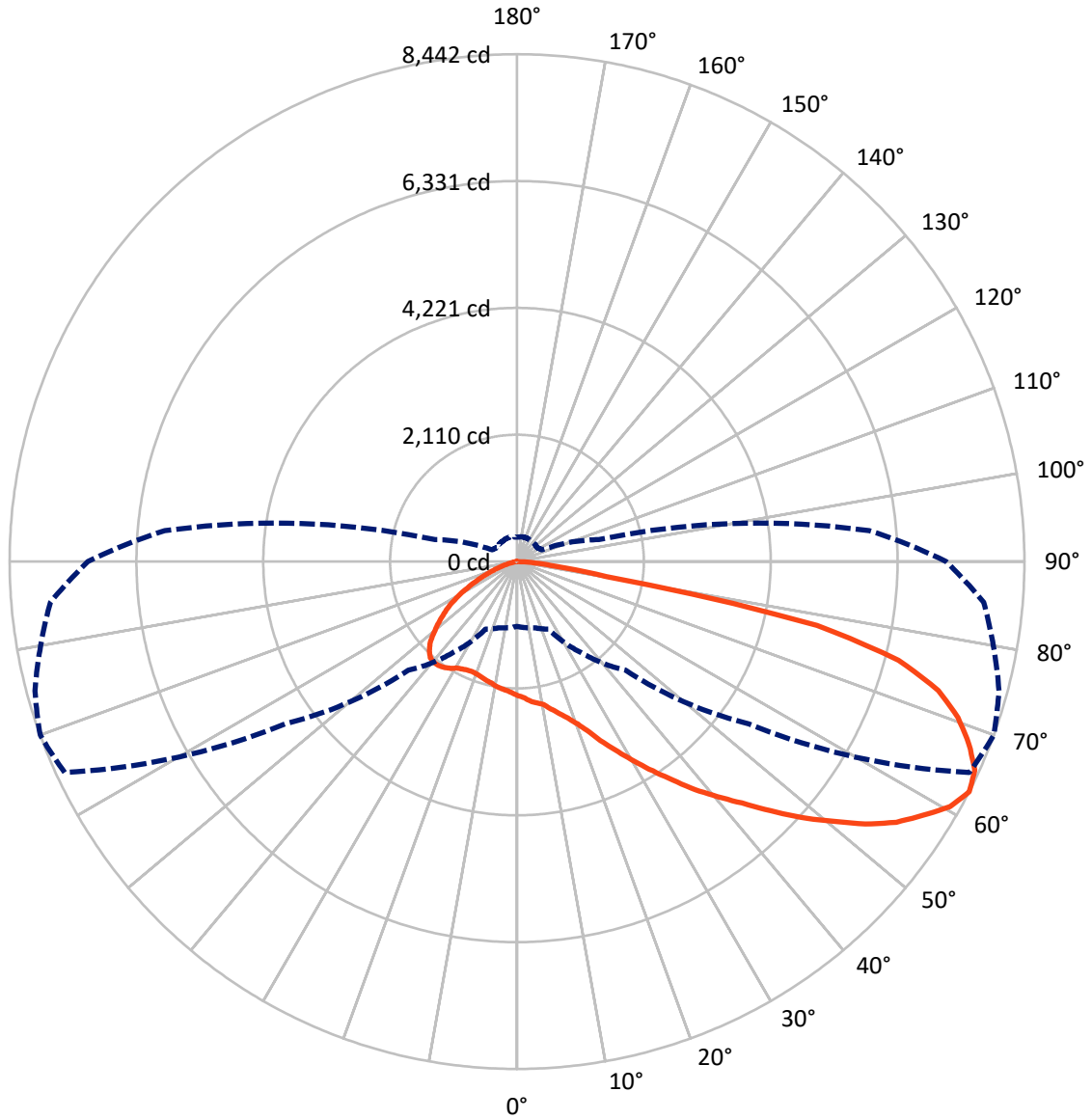
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

REPORT NUMBER: P509437
CATALOG NUMBER: VERD-G-CA2-100-722-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509437

CATALOG NUMBER: VERD-G-CA2-100-722-U-T2

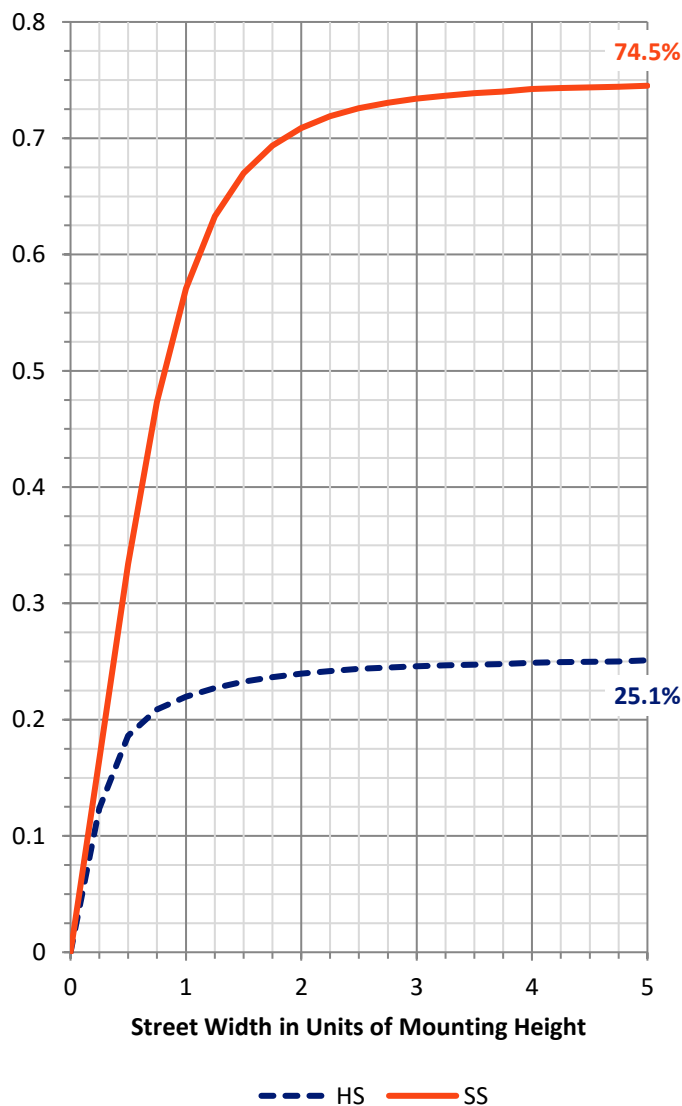
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3176.0	0.0	3176.0
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	9253.0	0.0	9253.0
	% Fixture	74.4	0.0	74.4
Total	Lumens	12429.0	0.0	12429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	1.7
10°-20°	655.3	5.3
20°-30°	1113.8	9.0
30°-40°	1602.7	12.9
40°-50°	2079.9	16.7
50°-60°	2438.1	19.6
60°-70°	2500.3	20.1
70°-80°	1640.7	13.2
80°-90°	182.8	1.5
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°	12429.0	100.0
0°-180°	12429.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509437

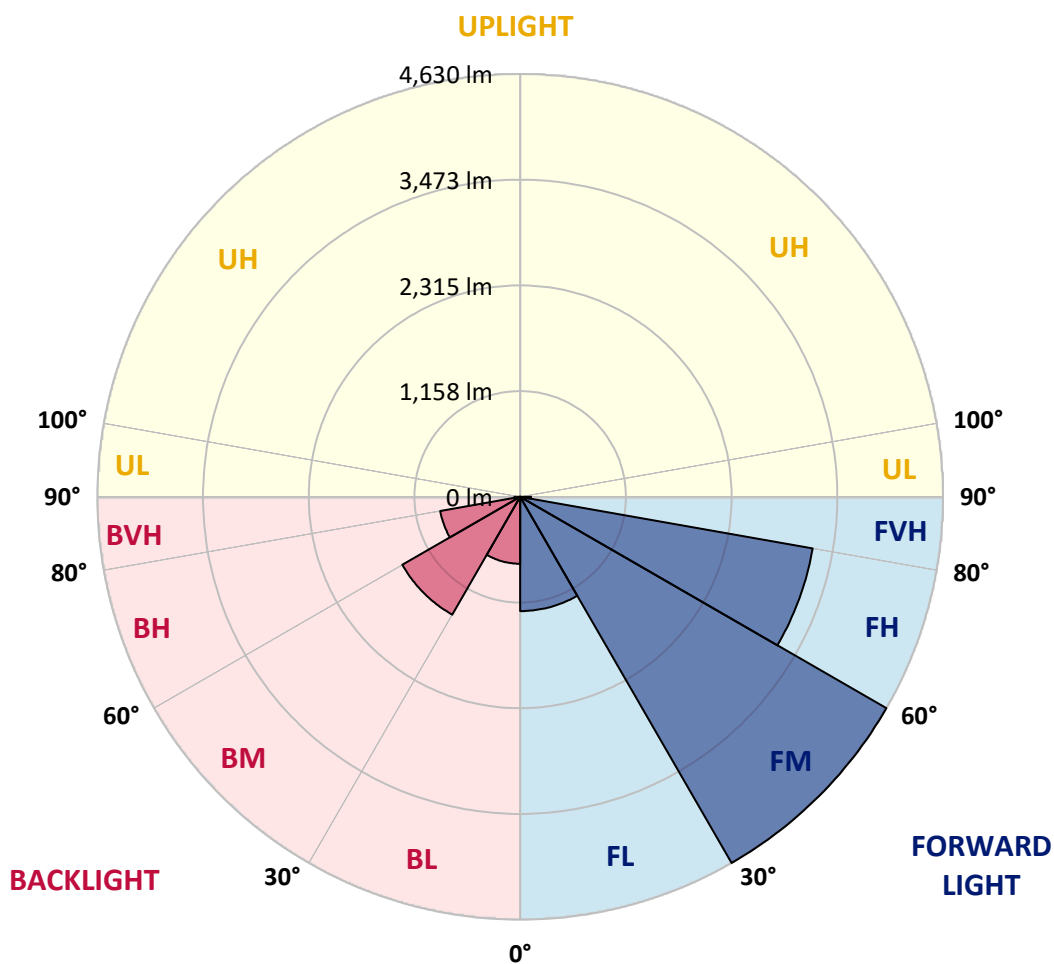
CATALOG NUMBER: VERD-G-CA2-100-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1251.1	10.1			
FM	(30°-60°)	4630.1	37.3			
FH	(60°-80°)	3252.6	26.2			G2/5000
FVH	(80°-90°)	119.2	1.0			G2/225
BL	(0°-30°)	733.4	5.9	B2/1000		
BM	(30°-60°)	1490.6	12.0	B2/2500		
BH	(60°-80°)	888.4	7.1	B2/1000		G2/1000
BVH	(80°-90°)	63.6	0.5			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 II Short





REPORT NUMBER: P509437

CATALOG NUMBER: VERD-G-CA2-100-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7
2.5°	2374.1	2383.1	2368.4	2354.6	2340.7	2332.6	2318.7	2279.6	2265.7	2253.5	2229.1
5°	2497.2	2509.4	2488.2	2444.2	2433.6	2399.4	2380.7	2347.2	2333.4	2312.2	2271.4
7.5°	2641.5	2643.1	2612.9	2599.1	2564.0	2517.6	2458.1	2397.0	2376.6	2354.6	2303.2
10°	2725.4	2742.5	2713.2	2670.0	2645.5	2604.0	2541.2	2460.5	2415.7	2376.6	2319.5
12.5°	2843.6	2847.7	2800.4	2775.9	2743.3	2691.2	2630.0	2560.0	2515.9	2443.4	2339.9
15°	2930.0	2932.4	2890.0	2864.0	2833.0	2802.0	2736.0	2662.6	2619.4	2546.9	2389.6
17.5°	2991.9	3002.5	2976.4	2957.7	2925.1	2903.1	2850.9	2793.0	2736.8	2671.6	2493.1
20°	3059.6	3065.3	3017.2	3025.3	3019.6	3009.8	2985.4	2930.8	2885.1	2798.8	2576.3
22.5°	3078.3	3068.5	3081.6	3113.3	3128.8	3140.2	3132.9	3120.7	3079.1	2971.5	2733.6
25°	3050.6	3062.8	3093.8	3163.1	3249.5	3300.8	3337.5	3346.4	3334.2	3231.5	2943.8
27.5°	3043.3	3037.6	3088.1	3206.3	3351.3	3471.1	3543.7	3612.1	3581.2	3516.8	3181.0
30°	3012.3	3009.8	3098.7	3220.1	3406.8	3629.2	3758.8	3874.6	3859.9	3794.7	3458.9
32.5°	2936.5	2952.8	3021.2	3231.5	3491.5	3782.5	3940.6	4130.5	4152.5	4104.4	3740.1
35°	2838.7	2844.4	2953.6	3201.4	3557.5	3916.9	4146.8	4410.8	4462.2	4460.6	4056.3
37.5°	2714.8	2747.4	2864.0	3126.4	3586.1	4040.0	4344.8	4709.1	4811.8	4796.3	4372.5
40°	2590.9	2611.3	2749.0	3031.0	3588.5	4122.3	4512.7	5027.8	5141.9	5144.4	4732.8
42.5°	2405.1	2439.3	2583.6	2905.5	3533.9	4192.4	4679.8	5362.0	5491.6	5510.3	5066.9
45°	2250.2	2261.7	2389.6	2710.7	3415.7	4229.9	4865.6	5704.3	5913.7	5898.2	5357.1
47.5°	2049.8	2094.6	2229.9	2526.5	3230.7	4236.4	5027.0	6102.0	6361.2	6325.3	5752.4
50°	1586.0	1635.7	2004.1	2360.3	2996.8	4162.3	5156.6	6574.7	6785.8	6747.5	6089.0
52.5°	1398.6	1423.0	1572.2	2166.3	2753.9	3985.4	5260.1	7023.0	7253.6	7135.4	6482.6
55°	1318.7	1330.1	1397.7	1771.8	2539.6	3695.3	5319.6	7525.8	7655.4	7480.2	6849.4
57.5°	1232.3	1259.2	1293.4	1493.1	2300.8	3293.5	5282.9	7943.1	7964.3	7789.9	7162.3
60°	1150.8	1162.2	1233.1	1338.2	2026.1	2878.6	5075.9	8203.1	8278.1	8063.7	7538.9
62.5°	1078.3	1098.6	1140.2	1238.8	1842.7	2555.9	4707.5	8303.3	8441.9	8302.5	7793.1
65°	1009.8	1016.3	1063.6	1153.2	1639.8	2397.0	4494.8	8145.2	8370.2	8348.2	7904.8
67.5°	929.1	936.4	978.0	1040.0	1386.3	2220.1	3940.6	7921.9	8111.0	8186.0	7841.2
70°	824.0	829.7	878.6	915.3	1162.2	1959.3	3308.9	7579.6	7784.2	7714.9	7414.2
72.5°	703.4	712.3	751.4	797.1	966.6	1652.0	2591.7	6863.2	7331.8	7286.2	6780.1
75°	568.1	581.9	613.7	668.3	785.7	1312.2	1834.6	5553.5	6554.3	6622.8	5851.0
77.5°	269.0	282.8	311.3	357.0	476.0	915.3	1004.1	3130.5	5104.4	5528.2	4710.8
80°	88.0	89.7	211.1	241.2	302.4	564.0	410.0	1021.2	1511.8	2556.7	2533.9
82.5°	47.3	51.3	114.1	140.2	151.6	151.6	119.8	450.7	636.5	778.3	901.4
85°	25.3	26.1	39.9	48.1	52.2	41.6	31.0	185.8	298.3	372.5	369.2
87.5°	10.6	11.4	12.2	10.6	9.0	5.7	4.1	3.3	3.3	3.3	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: P509437
 CATALOG NUMBER: VERD-G-CA2-100-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7	2230.7
2.5°	2216.8	2205.4	2199.7	2176.1	2150.0	2122.3	2100.3	2101.1	2118.2	2131.3	2130.4
5°	2242.1	2213.6	2178.5	2123.1	2100.3	2079.9	2055.5	2022.9	2033.5	2046.5	2056.3
7.5°	2256.0	2219.3	2172.0	2089.7	2052.2	2008.2	1985.4	1943.0	1925.1	1938.1	1938.1
10°	2251.1	2213.6	2132.1	2071.8	1998.4	1929.1	1883.5	1872.9	1857.4	1855.0	1854.2
12.5°	2283.7	2228.2	2107.6	2018.8	1952.0	1863.1	1814.2	1804.4	1807.7	1787.3	1790.6
15°	2315.4	2252.7	2086.4	1994.3	1890.8	1786.5	1747.4	1711.5	1727.8	1710.7	1714.8
17.5°	2372.5	2296.7	2075.0	1945.4	1812.6	1722.1	1652.0	1611.3	1609.6	1607.2	1600.7
20°	2437.7	2332.6	2073.4	1903.1	1749.0	1641.4	1541.2	1496.4	1463.8	1475.2	1476.0
22.5°	2555.9	2400.2	2090.5	1863.9	1660.2	1539.6	1436.9	1368.4	1329.3	1335.8	1336.6
25°	2723.8	2542.0	2135.3	1830.5	1586.0	1421.4	1320.3	1233.9	1186.7	1187.5	1200.5
27.5°	2967.5	2711.5	2207.1	1802.0	1507.0	1309.7	1172.8	1088.0	1036.7	1035.9	1044.8
30°	3208.7	2923.4	2309.7	1761.2	1406.7	1159.8	1004.9	937.3	905.5	884.3	889.2
32.5°	3447.5	3150.8	2443.4	1740.1	1289.3	982.9	853.3	806.9	766.9	727.8	731.9
35°	3718.1	3364.4	2577.9	1697.7	1148.4	836.2	745.7	682.2	630.8	610.4	606.4
37.5°	4035.9	3612.9	2670.8	1661.8	981.3	737.6	627.6	580.3	546.9	524.9	521.6
40°	4316.3	3821.6	2773.5	1577.9	820.7	648.7	524.1	498.8	494.7	477.6	475.2
42.5°	4599.9	4077.5	2843.6	1467.8	710.7	535.5	448.3	462.9	485.7	475.2	475.2
45°	4889.3	4344.8	2857.4	1303.2	605.6	453.1	429.5	457.2	489.0	491.5	490.6
47.5°	5206.3	4582.0	2884.3	1067.7	530.6	432.0	426.3	449.1	489.8	504.5	501.2
50°	5565.7	4838.7	2809.3	814.2	485.7	434.4	429.5	440.1	484.1	500.4	494.7
52.5°	5915.4	5085.7	2685.5	621.0	457.2	436.8	446.6	438.5	470.3	486.6	493.1
55°	6239.7	5357.9	2423.0	552.6	437.7	433.6	460.5	445.8	457.2	462.1	471.1
57.5°	6568.2	5558.4	2144.3	518.3	427.1	429.5	452.3	445.8	453.1	447.4	440.1
60°	6876.3	5769.5	1784.9	486.6	415.7	427.1	436.0	434.4	439.3	428.7	423.8
62.5°	7137.9	5883.6	1409.2	458.9	405.9	415.7	414.0	422.2	423.0	410.8	407.5
65°	7257.7	5932.5	1075.8	433.6	391.2	401.0	392.8	394.5	395.3	379.0	378.2
67.5°	7136.2	5663.5	737.6	396.1	375.7	387.9	372.5	370.0	364.3	348.0	348.8
70°	6781.7	5214.4	492.3	342.3	342.3	363.5	354.5	348.8	335.0	319.5	324.4
72.5°	5989.5	4451.6	319.5	276.3	300.7	335.0	330.9	322.7	290.1	246.1	247.8
75°	5123.2	3533.1	212.7	201.3	229.8	290.1	275.5	255.9	242.9	256.7	273.8
77.5°	3989.5	2252.7	119.0	115.7	136.1	203.8	229.8	233.9	330.9	392.8	388.8
80°	2070.9	1144.3	69.3	57.1	80.7	136.9	180.9	246.1	410.8	309.7	299.9
82.5°	814.2	428.7	42.4	30.2	35.9	56.2	119.8	353.7	311.3	156.5	150.0
85°	278.7	97.0	17.1	15.5	17.1	23.6	47.3	317.0	161.4	99.4	94.5
87.5°	3.3	3.3	4.1	4.9	5.7	5.7	13.0	150.8	75.0	46.5	44.8
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)