

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: P509309

Luminaire Tested: **VERD-CA2-70-730-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-70-730-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 980mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10268 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

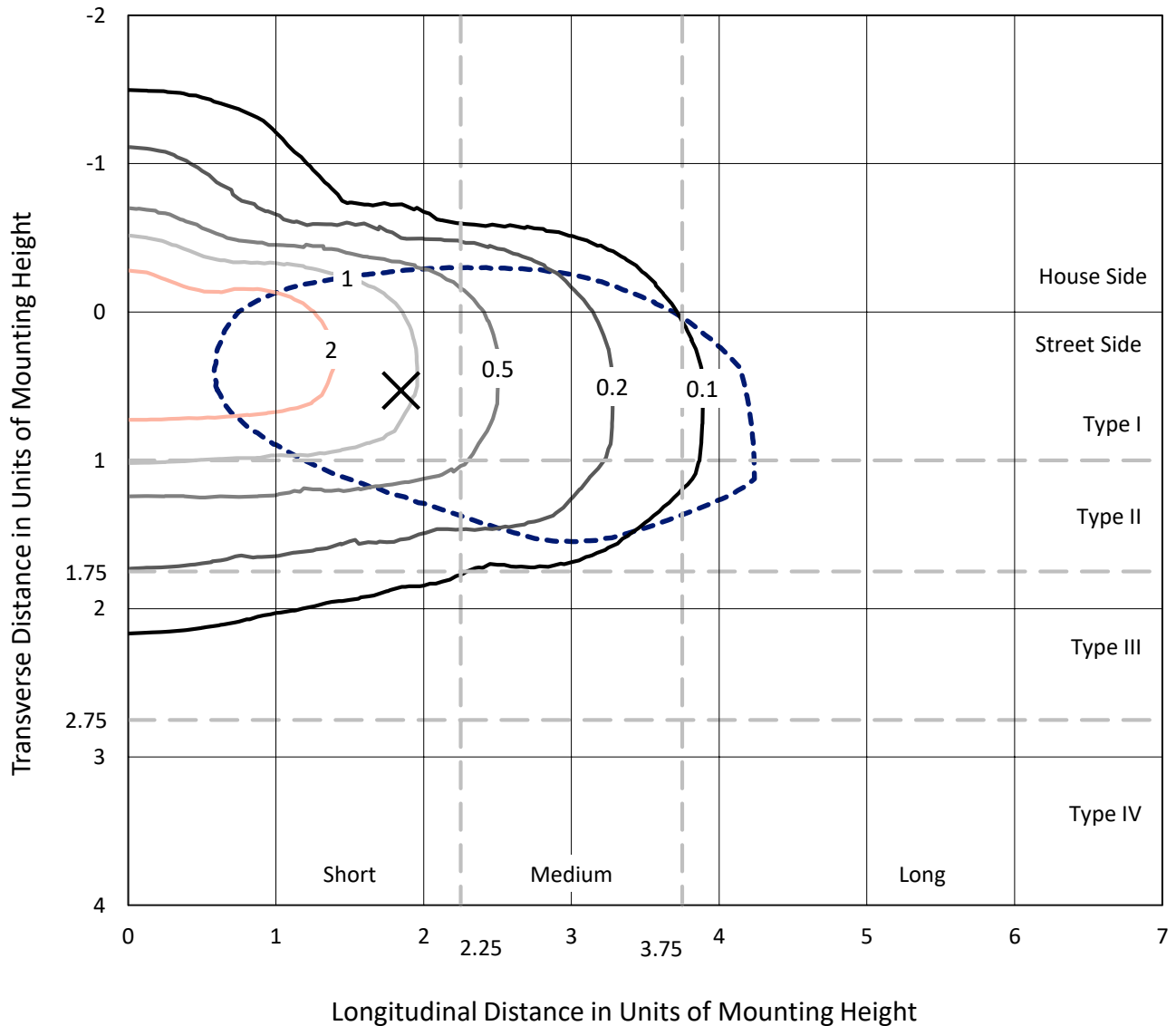
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

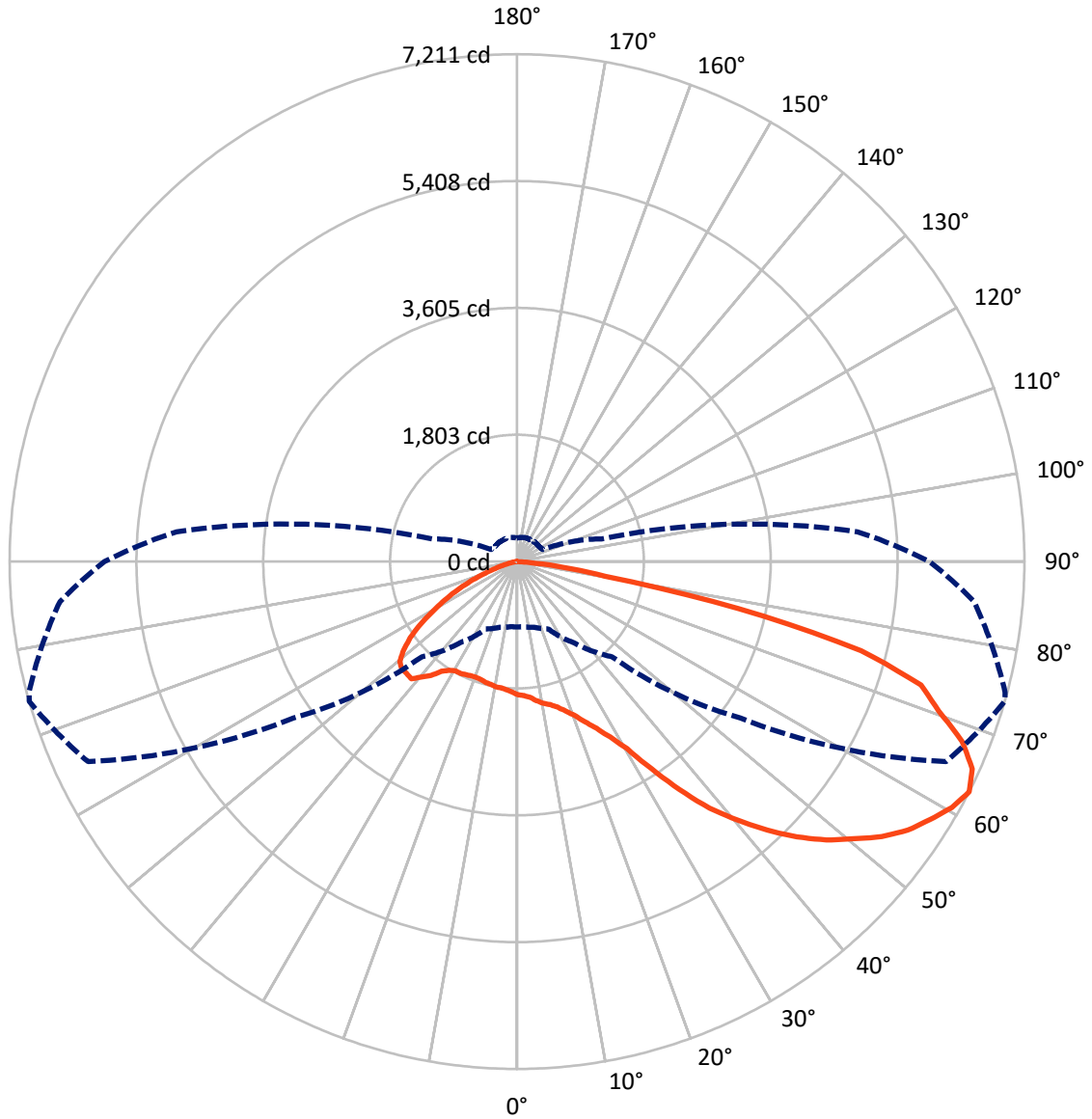
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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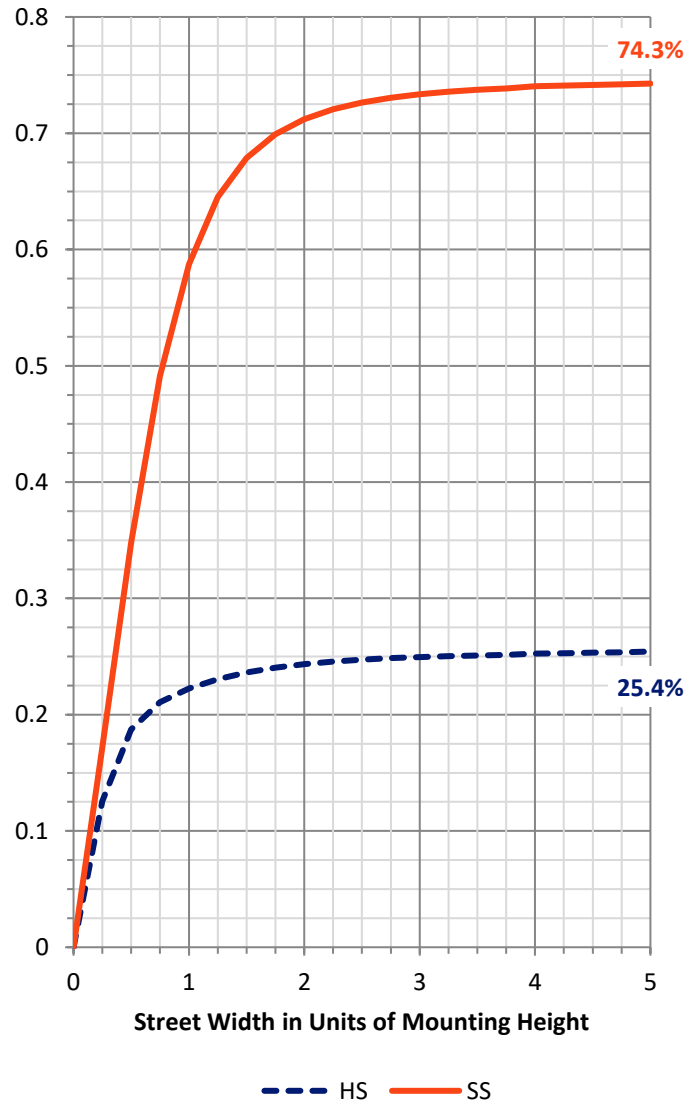
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2651.3	0.0	2651.3
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	7616.7	0.0	7616.7
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	10268.0	0.0	10268.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.9	1.8
10°-20°	554.7	5.4
20°-30°	935.3	9.1
30°-40°	1366.6	13.3
40°-50°	1819.6	17.7
50°-60°	2094.0	20.4
60°-70°	2023.5	19.7
70°-80°	1164.9	11.3
80°-90°	127.4	1.2
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°	10268.0	100.0
0°-180°	10268.0	100.0



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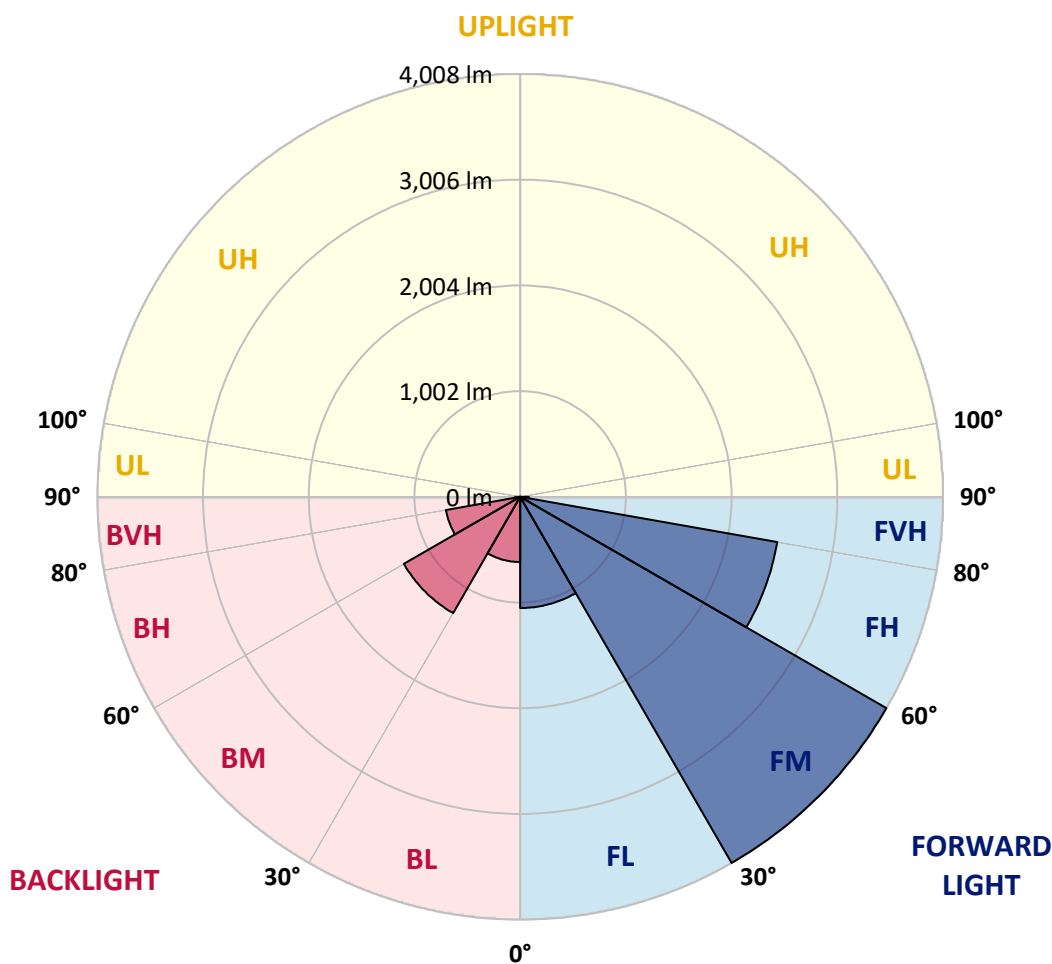
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.8	10.3			
FM (30°-60°)	4007.6	39.0			
FH (60°-80°)	2474.7	24.1			G2/5000
FVH (80°-90°)	80.6	0.8			G1/100
BL (0°-30°)	618.1	6.0	B2/1000		
BM (30°-60°)	1272.6	12.4	B2/2500		
BH (60°-80°)	713.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	46.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4
2.5°	2026.6	2012.1	2003.1	1993.0	1980.7	1976.2	1949.3	1925.8	1906.8	1907.9	1895.6
5°	2100.5	2084.8	2064.7	2061.3	2045.6	2042.3	2016.5	1979.6	1938.2	1932.6	1895.6
7.5°	2183.4	2174.4	2162.1	2146.4	2120.7	2103.9	2066.9	2037.8	1995.3	1989.7	1916.9
10°	2284.1	2277.4	2268.5	2268.5	2234.9	2199.0	2154.2	2081.5	2047.9	2042.3	1953.8
12.5°	2402.8	2382.7	2353.6	2336.8	2305.4	2283.0	2234.9	2157.6	2084.8	2082.6	1988.5
15°	2480.1	2463.3	2444.2	2437.5	2397.2	2360.3	2308.8	2247.2	2145.3	2137.5	2031.1
17.5°	2566.3	2550.6	2528.2	2515.9	2490.2	2447.6	2401.7	2321.1	2230.4	2222.5	2079.2
20°	2614.4	2597.6	2590.9	2593.2	2584.2	2562.9	2508.1	2435.3	2331.2	2321.1	2145.3
22.5°	2668.2	2657.0	2659.2	2676.0	2692.8	2685.0	2642.4	2561.8	2472.2	2456.6	2251.7
25°	2669.3	2660.3	2690.6	2755.5	2791.3	2809.3	2786.9	2720.8	2625.6	2611.1	2387.1
27.5°	2688.3	2674.9	2707.4	2775.7	2884.3	2921.2	2929.1	2904.4	2822.7	2804.8	2549.5
30°	2639.1	2630.1	2679.4	2798.1	2925.7	3048.9	3093.7	3131.7	3085.8	3086.9	2800.3
32.5°	2554.0	2538.3	2613.3	2758.9	2996.2	3164.2	3282.9	3436.3	3506.8	3500.1	3237.0
35°	2391.6	2400.6	2501.3	2724.2	2998.5	3281.8	3514.7	3789.0	3980.4	3976.0	3689.3
37.5°	2276.3	2271.8	2390.5	2626.8	2997.4	3385.9	3739.7	4196.5	4444.0	4437.3	4077.8
40°	2137.5	2138.6	2257.3	2505.8	2944.7	3450.8	3972.6	4582.8	4834.7	4824.7	4449.6
42.5°	1988.5	1993.0	2103.9	2358.0	2872.0	3500.1	4180.9	4973.6	5217.7	5226.6	4747.4
45°	1855.3	1857.5	1967.3	2200.2	2743.2	3505.7	4367.8	5343.1	5580.4	5559.2	5059.8
47.5°	1659.4	1661.6	1823.9	2050.1	2573.0	3459.8	4522.4	5694.7	5911.9	5867.1	5324.0
50°	1299.9	1304.4	1497.0	1894.5	2365.9	3354.5	4644.4	6025.0	6192.9	6173.9	5595.0
52.5°	1200.3	1196.9	1277.5	1708.6	2180.0	3164.2	4721.7	6321.7	6491.9	6489.6	5818.9
55°	1149.9	1146.5	1173.4	1385.0	1997.5	2882.0	4719.4	6552.3	6739.3	6693.4	6023.8
57.5°	1060.3	1053.6	1123.0	1227.2	1793.7	2530.5	4607.5	6759.5	6918.5	6905.0	6208.6
60°	996.5	990.9	1037.9	1134.2	1576.5	2173.3	4319.7	6866.9	7098.7	7104.3	6364.2
62.5°	930.4	927.1	967.4	1057.0	1406.3	1912.4	3876.3	6725.9	7210.7	7180.5	6519.9
65°	855.4	853.2	891.3	964.0	1237.2	1714.2	3441.9	6473.9	7109.9	7144.6	6540.0
67.5°	765.9	764.7	801.7	852.1	1052.5	1514.9	2776.8	6177.2	6822.2	6784.1	6281.4
70°	656.1	651.6	697.6	744.6	881.2	1288.7	2161.0	5649.9	6354.1	6491.9	5766.3
72.5°	552.0	549.8	593.4	628.1	730.0	1052.5	1576.5	4886.2	6003.7	5805.5	5195.3
75°	432.2	421.0	466.9	499.4	575.5	837.5	1074.9	3263.8	5053.1	5011.7	4364.5
77.5°	174.7	202.7	241.8	271.0	321.3	474.7	562.1	1548.5	3223.5	3365.7	3035.4
80°	67.2	71.7	172.4	194.8	216.1	273.2	216.1	652.8	1271.9	1387.3	1757.9
82.5°	38.1	42.5	85.1	81.7	80.6	69.4	80.6	320.2	664.0	727.8	848.7
85°	21.3	23.5	34.7	38.1	32.5	28.0	24.6	84.0	165.7	156.8	175.8
87.5°	3.4	4.5	5.6	5.6	3.4	3.4	3.4	4.5	4.5	4.5	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4	1893.4
2.5°	1883.3	1871.0	1858.7	1844.1	1826.2	1815.0	1810.5	1816.1	1831.8	1812.7	1797.1
5°	1876.6	1859.8	1831.8	1803.8	1781.4	1762.4	1736.6	1734.4	1738.9	1731.0	1710.9
7.5°	1891.1	1866.5	1809.4	1790.4	1743.3	1698.5	1684.0	1678.4	1665.0	1649.3	1630.2
10°	1920.2	1869.9	1811.6	1755.6	1712.0	1663.8	1607.8	1609.0	1603.4	1585.5	1567.5
12.5°	1934.8	1875.5	1790.4	1731.0	1663.8	1604.5	1549.6	1525.0	1535.1	1520.5	1501.5
15°	1961.7	1899.0	1782.5	1695.2	1603.4	1536.2	1494.8	1458.9	1436.5	1439.9	1428.7
17.5°	2012.1	1920.2	1762.4	1656.0	1556.3	1476.8	1397.4	1394.0	1360.4	1341.4	1324.6
20°	2064.7	1958.3	1760.1	1613.4	1480.2	1381.7	1317.9	1282.0	1261.9	1246.2	1233.9
22.5°	2133.0	2010.9	1768.0	1588.8	1411.9	1301.1	1219.3	1171.2	1138.7	1127.5	1118.6
25°	2229.3	2077.0	1789.2	1545.1	1340.2	1212.6	1101.8	1051.4	1014.4	1005.5	998.7
27.5°	2361.4	2161.0	1810.5	1498.1	1256.3	1088.3	970.8	921.5	880.1	878.9	866.6
30°	2569.6	2289.7	1818.3	1456.7	1166.7	955.1	837.5	791.6	760.3	747.9	756.9
32.5°	2958.2	2574.1	1867.6	1392.9	1053.6	825.2	725.5	688.6	653.9	640.5	649.4
35°	3378.1	2914.5	1950.5	1349.2	929.3	702.0	633.7	590.1	547.5	540.8	537.4
37.5°	3686.0	3224.7	2107.2	1277.5	811.8	627.0	537.4	501.6	477.0	463.5	475.9
40°	4035.3	3482.2	2225.9	1201.4	692.0	547.5	447.9	436.7	425.5	416.5	430.0
42.5°	4311.9	3747.5	2367.0	1100.6	595.7	464.7	398.6	407.6	413.2	408.7	409.8
45°	4566.0	3944.6	2375.9	947.2	508.3	403.1	384.0	402.0	415.4	413.2	412.0
47.5°	4814.6	4179.7	2397.2	784.9	445.6	387.4	385.2	398.6	416.5	419.9	419.9
50°	5071.0	4358.9	2364.7	631.5	422.1	389.6	388.5	387.4	409.8	410.9	414.3
52.5°	5263.6	4504.4	2211.4	521.8	421.0	396.4	394.1	382.9	393.0	400.8	395.2
55°	5467.4	4685.8	2017.6	480.3	418.8	398.6	407.6	388.5	381.8	375.1	381.8
57.5°	5661.1	4812.4	1763.5	455.7	409.8	395.2	413.2	387.4	372.9	353.8	347.1
60°	5810.0	4841.5	1480.2	430.0	398.6	387.4	388.5	379.6	360.5	337.0	326.9
62.5°	5860.4	4858.3	1245.1	405.3	376.2	375.1	366.1	362.8	354.9	340.4	335.9
65°	5817.8	4667.9	994.3	375.1	357.2	358.3	344.9	333.7	315.7	292.2	290.0
67.5°	5525.6	4333.1	762.5	337.0	328.1	339.3	324.7	305.7	285.5	269.8	272.1
70°	5025.1	3936.8	535.2	284.4	294.5	314.6	309.0	284.4	262.0	248.6	250.8
72.5°	4468.6	3335.5	363.9	221.7	239.6	282.2	282.2	265.4	243.0	225.1	220.6
75°	3524.7	2620.0	235.1	146.7	157.9	230.7	249.7	223.9	199.3	188.1	183.6
77.5°	2392.7	1706.4	150.0	84.0	105.2	151.2	197.1	200.4	236.3	237.4	227.3
80°	1406.3	976.4	91.8	49.3	52.6	87.3	157.9	198.2	250.8	176.9	162.4
82.5°	699.8	416.5	41.4	30.2	31.4	43.7	85.1	227.3	193.7	110.8	106.4
85°	155.6	68.3	16.8	15.7	17.9	22.4	43.7	188.1	118.7	89.6	87.3
87.5°	5.6	4.5	4.5	4.5	3.4	3.4	9.0	61.6	47.0	39.2	36.9
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)