

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: P509333

Luminaire Tested: **VERD-CA2-70-760-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509333  
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-CA2-70-760-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 980mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10423 lumens  
Efficiency: N/A  
Efficacy: 141.6 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

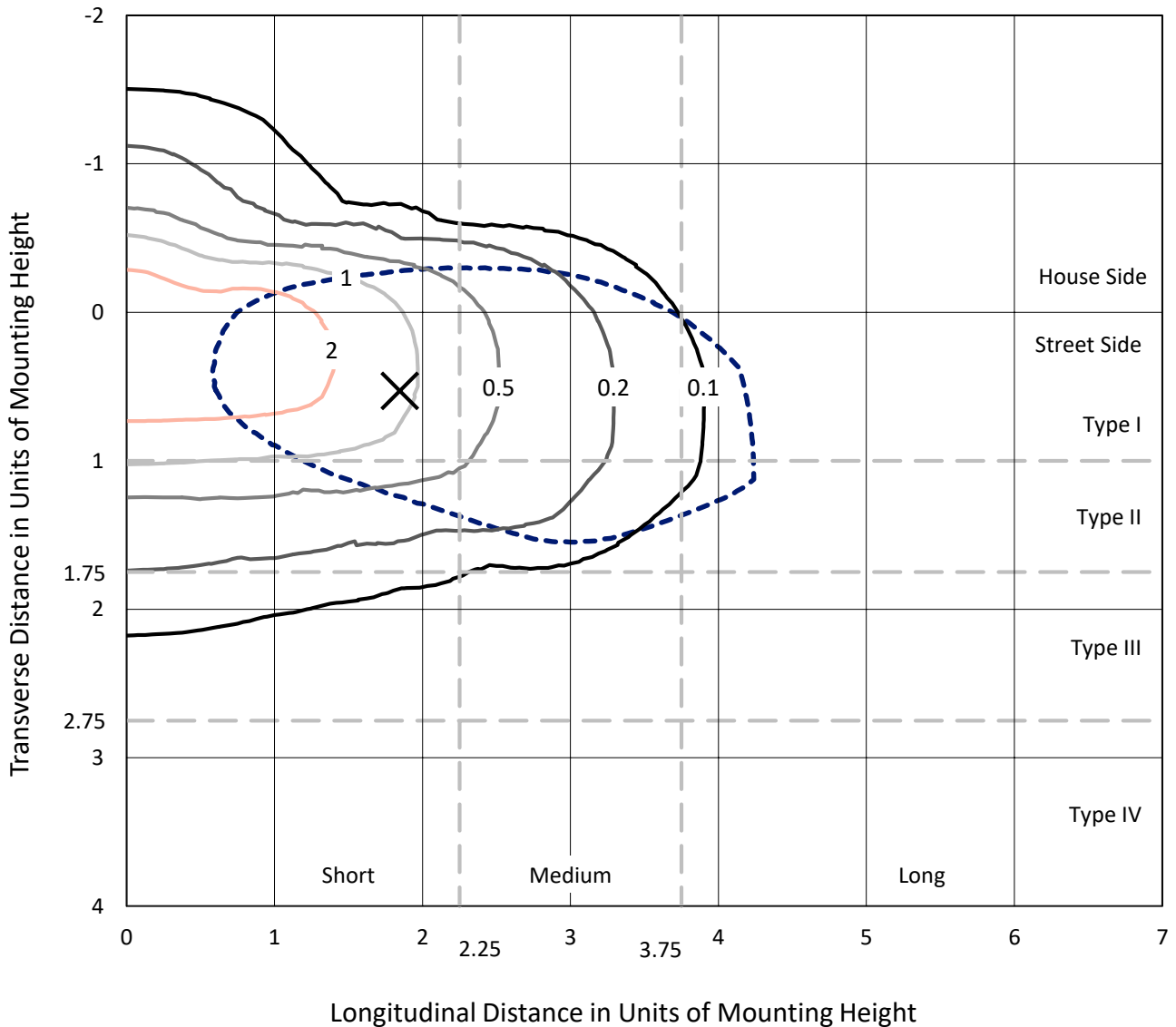
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

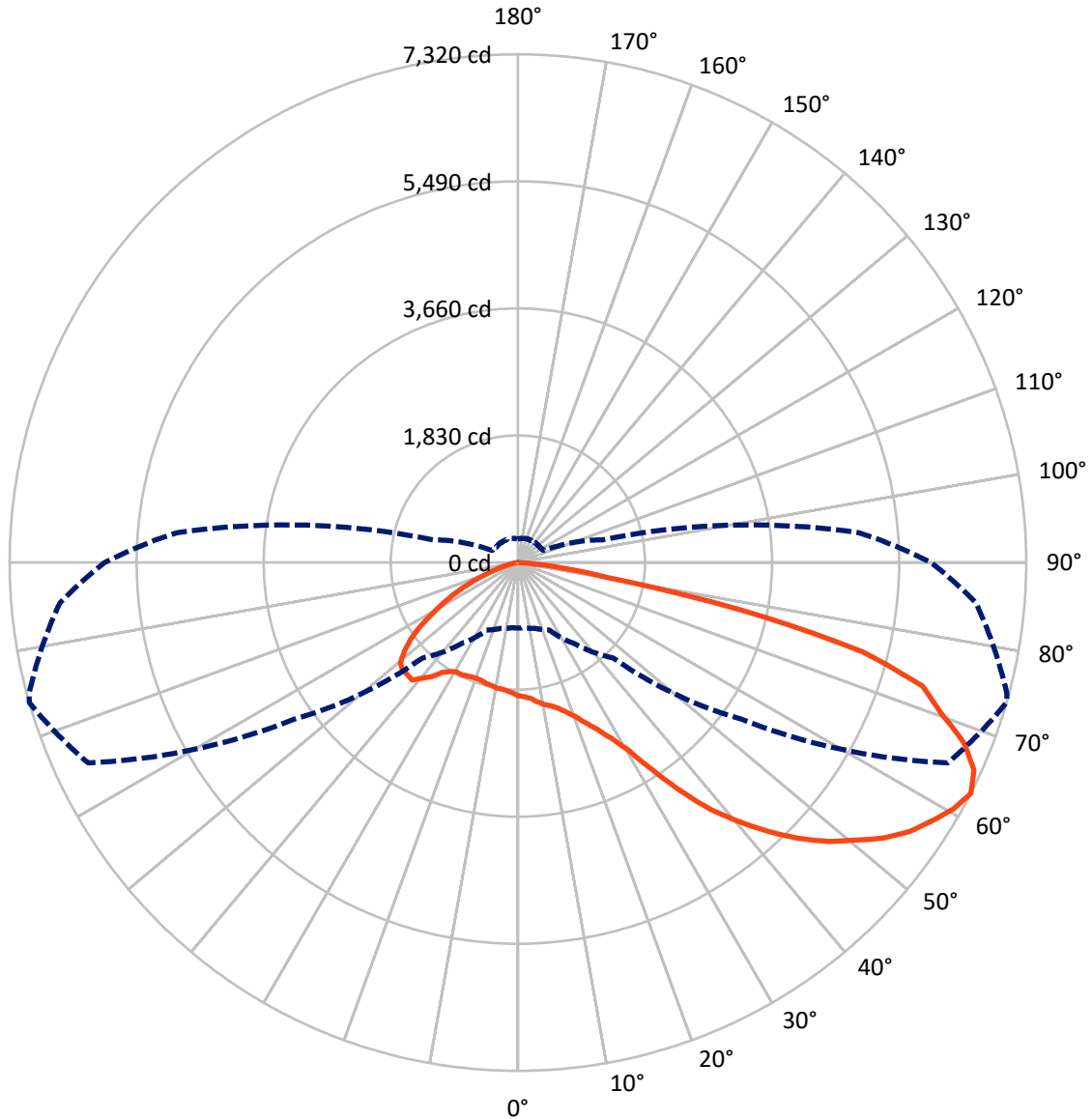
× Max cd  
 - - - 1/2 Max cd



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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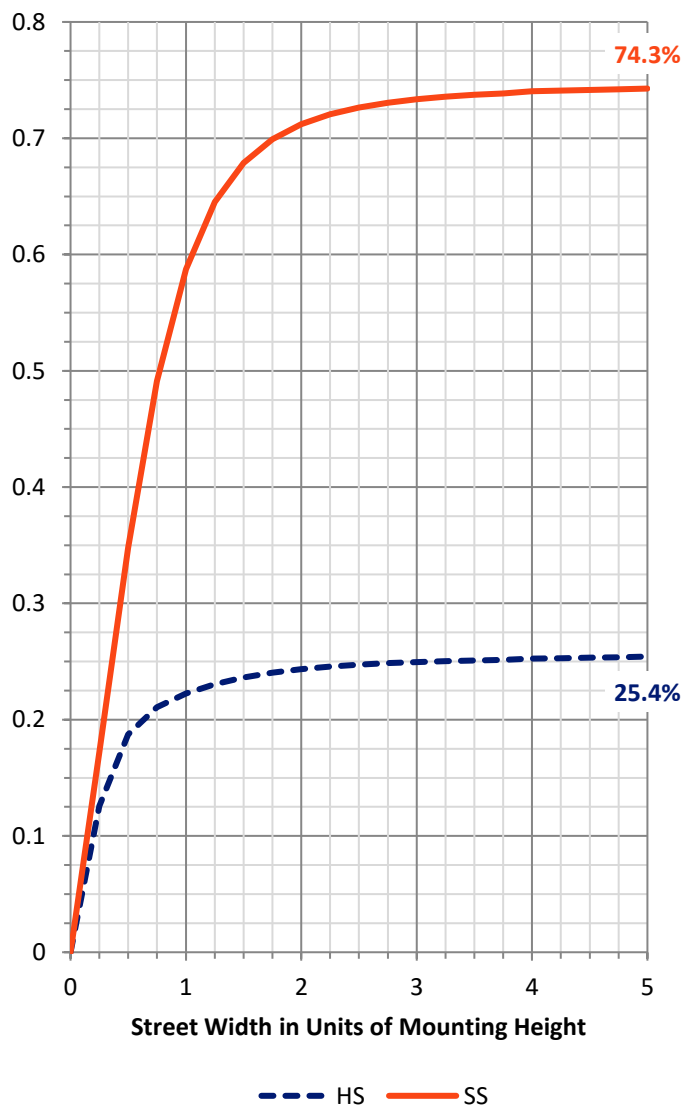
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2691.3	0.0	2691.3
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	7731.7	0.0	7731.7
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	10423.0	0.0	10423.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	1.8
10°-20°	563.1	5.4
20°-30°	949.4	9.1
30°-40°	1387.2	13.3
40°-50°	1847.1	17.7
50°-60°	2125.6	20.4
60°-70°	2054.1	19.7
70°-80°	1182.5	11.3
80°-90°	129.4	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°	10423.0	100.0
0°-180°	10423.0	100.0

**Coefficient of Utilization**



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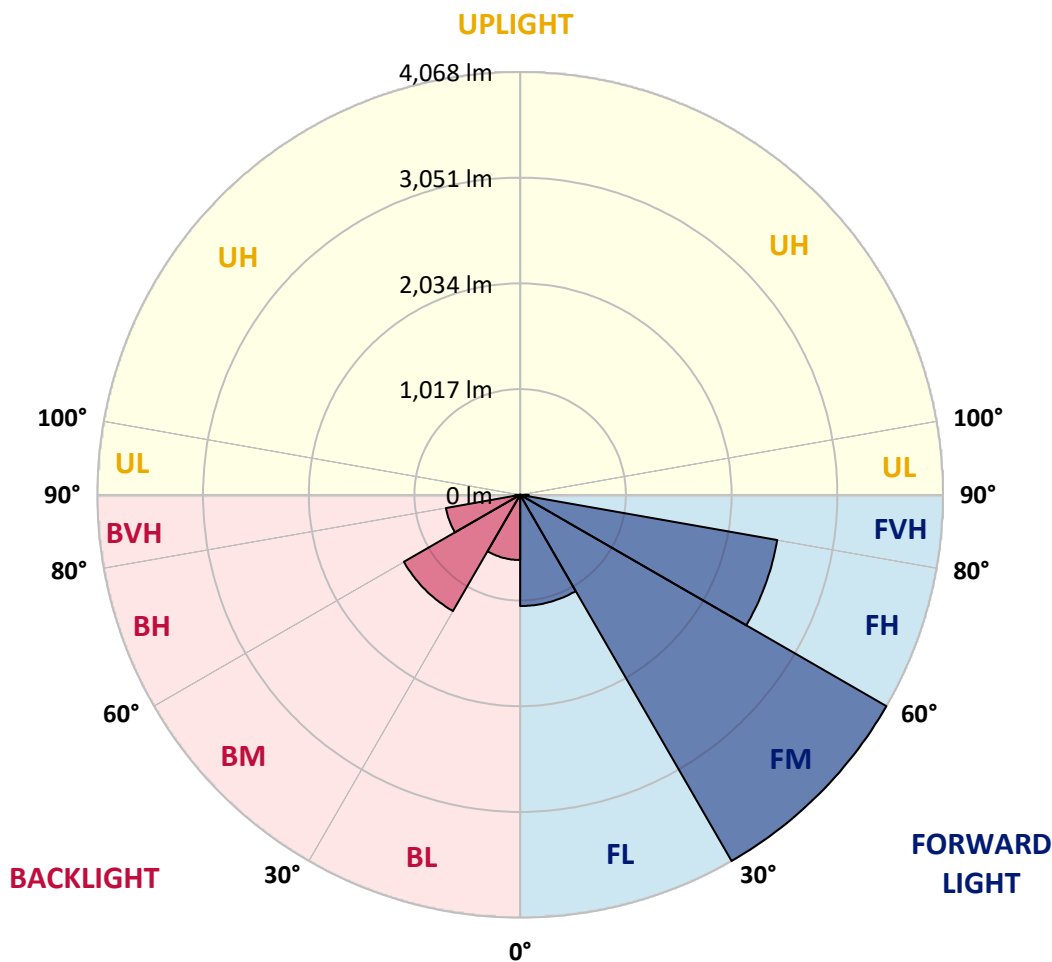
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.7	10.3			
FM (30°-60°)	4068.1	39.0			
FH (60°-80°)	2512.0	24.1			G2/5000
FVH (80°-90°)	81.8	0.8			G1/100
BL (0°-30°)	627.4	6.0	B2/1000		
BM (30°-60°)	1291.8	12.4	B2/2500		
BH (60°-80°)	724.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	47.5	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°	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9
2.5°	2057.2	2042.4	2033.3	2023.1	2010.6	2006.1	1978.8	1954.9	1935.6	1936.7	1924.2
5°	2132.2	2116.3	2095.8	2092.4	2076.5	2073.1	2047.0	2009.5	1967.4	1961.7	1924.2
7.5°	2216.3	2207.2	2194.7	2178.8	2152.7	2135.6	2098.1	2068.6	2025.4	2019.7	1945.8
10°	2318.6	2311.8	2302.7	2302.7	2268.6	2232.2	2186.8	2112.9	2078.8	2073.1	1983.3
12.5°	2439.1	2418.6	2389.1	2372.0	2340.2	2317.5	2268.6	2190.2	2116.3	2114.0	2018.6
15°	2517.5	2500.5	2481.1	2474.3	2433.4	2395.9	2343.6	2281.1	2177.7	2169.7	2061.7
17.5°	2605.0	2589.1	2566.4	2553.9	2527.7	2484.6	2438.0	2356.1	2264.1	2256.1	2110.6
20°	2653.9	2636.9	2630.0	2632.3	2623.2	2601.6	2545.9	2472.0	2366.3	2356.1	2177.7
22.5°	2708.5	2697.1	2699.4	2716.4	2733.5	2725.5	2682.3	2600.5	2509.6	2493.6	2285.7
25°	2709.6	2700.5	2731.2	2797.1	2833.5	2851.7	2828.9	2761.9	2665.3	2650.5	2423.2
27.5°	2728.9	2715.3	2748.2	2817.6	2927.8	2965.3	2973.3	2948.3	2865.3	2847.1	2588.0
30°	2678.9	2669.8	2719.8	2840.3	2969.9	3094.9	3140.4	3179.0	3132.4	3133.5	2842.6
32.5°	2592.5	2576.6	2652.8	2800.5	3041.5	3212.0	3332.4	3488.1	3559.7	3552.9	3285.8
35°	2427.7	2436.8	2539.1	2765.3	3043.7	3331.3	3567.7	3846.2	4040.5	4036.0	3745.0
37.5°	2310.7	2306.1	2426.6	2666.4	3042.6	3437.0	3796.2	4259.9	4511.1	4504.2	4139.4
40°	2169.7	2170.9	2291.3	2543.7	2989.2	3502.9	4032.6	4652.0	4907.7	4897.5	4516.7
42.5°	2018.6	2023.1	2135.6	2393.6	2915.3	3552.9	4244.0	5048.7	5296.4	5305.5	4819.1
45°	1883.3	1885.6	1997.0	2233.4	2784.6	3558.6	4433.8	5423.7	5664.7	5643.1	5136.2
47.5°	1684.4	1686.7	1851.5	2081.1	2611.8	3512.0	4590.6	5780.6	6001.1	5955.6	5404.4
50°	1319.6	1324.1	1519.6	1923.1	2401.6	3405.2	4714.5	6115.9	6286.4	6267.1	5679.5
52.5°	1218.4	1215.0	1296.8	1734.4	2212.9	3212.0	4792.9	6417.1	6589.9	6587.6	5906.8
55°	1167.3	1163.9	1191.1	1405.9	2027.6	2925.5	4790.7	6651.2	6841.0	6794.4	6114.8
57.5°	1076.3	1069.5	1140.0	1245.7	1820.8	2568.7	4677.0	6861.5	7022.9	7009.3	6302.3
60°	1011.6	1005.9	1053.6	1151.3	1600.3	2206.1	4384.9	6970.6	7205.9	7211.6	6460.3
62.5°	944.5	941.1	982.0	1072.9	1427.5	1941.3	3934.8	6827.4	7319.5	7288.8	6618.3
65°	868.3	866.1	904.7	978.6	1255.9	1740.1	3493.8	6571.7	7217.2	7252.5	6638.7
67.5°	777.4	776.3	813.8	864.9	1068.4	1537.8	2818.7	6270.5	6925.1	6886.5	6376.2
70°	666.0	661.5	708.1	755.8	894.5	1308.2	2193.6	5735.2	6450.1	6589.9	5853.4
72.5°	560.3	558.1	602.4	637.6	741.0	1068.4	1600.3	4960.0	6094.3	5893.1	5273.7
75°	438.7	427.4	474.0	506.9	584.2	850.2	1091.1	3313.1	5129.4	5087.3	4430.4
77.5°	177.3	205.7	245.5	275.1	326.2	481.9	570.6	1571.9	3272.2	3416.5	3081.3
80°	68.2	72.7	175.0	197.8	219.4	277.3	219.4	662.6	1291.1	1408.2	1784.4
82.5°	38.6	43.2	86.4	83.0	81.8	70.5	81.8	325.1	674.0	738.8	861.5
85°	21.6	23.9	35.2	38.6	33.0	28.4	25.0	85.2	168.2	159.1	178.4
87.5°	3.4	4.5	5.7	5.7	3.4	3.4	3.4	4.5	4.5	4.5	5.7
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°	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9	1921.9
2.5°	1911.7	1899.2	1886.7	1871.9	1853.8	1842.4	1837.8	1843.5	1859.4	1840.1	1824.2
5°	1904.9	1887.8	1859.4	1831.0	1808.3	1789.0	1762.8	1760.6	1765.1	1757.1	1736.7
7.5°	1919.7	1894.7	1836.7	1817.4	1769.6	1724.2	1709.4	1703.7	1690.1	1674.2	1654.9
10°	1949.2	1898.1	1839.0	1782.1	1737.8	1688.9	1632.1	1633.3	1627.6	1609.4	1591.2
12.5°	1964.0	1903.8	1817.4	1757.1	1688.9	1628.7	1573.0	1548.0	1558.2	1543.5	1524.1
15°	1991.3	1927.6	1809.4	1720.8	1627.6	1559.4	1517.3	1481.0	1458.2	1461.6	1450.3
17.5°	2042.4	1949.2	1789.0	1681.0	1579.8	1499.1	1418.4	1415.0	1380.9	1361.6	1344.6
20°	2095.8	1987.9	1786.7	1637.8	1502.6	1402.5	1337.7	1301.4	1280.9	1265.0	1252.5
22.5°	2165.2	2041.3	1794.7	1612.8	1433.2	1320.7	1237.7	1188.9	1155.9	1144.5	1135.4
25°	2262.9	2108.3	1816.2	1568.5	1360.5	1230.9	1118.4	1067.2	1029.7	1020.6	1013.8
27.5°	2397.0	2193.6	1837.8	1520.7	1275.2	1104.7	985.4	935.4	893.3	892.2	879.7
30°	2608.4	2324.3	1845.8	1478.7	1184.3	969.5	850.2	803.6	771.7	759.2	768.3
32.5°	3002.8	2613.0	1895.8	1413.9	1069.5	837.7	736.5	699.0	663.8	650.1	659.2
35°	3429.0	2958.5	1979.9	1369.6	943.4	712.6	643.3	599.0	555.8	549.0	545.6
37.5°	3741.6	3273.3	2139.0	1296.8	824.0	636.5	545.6	509.2	484.2	470.5	483.0
40°	4096.2	3534.7	2259.5	1219.5	702.4	555.8	454.6	443.3	431.9	422.8	436.4
42.5°	4376.9	3804.1	2402.7	1117.3	604.7	471.7	404.6	413.7	419.4	414.8	416.0
45°	4634.9	4004.2	2411.8	961.5	516.0	409.2	389.8	408.0	421.7	419.4	418.3
47.5°	4887.3	4242.8	2433.4	796.7	452.4	393.3	391.0	404.6	422.8	426.2	426.2
50°	5147.5	4424.7	2400.4	641.0	428.5	395.5	394.4	393.3	416.0	417.1	420.5
52.5°	5343.0	4572.4	2244.7	529.6	427.4	402.3	400.1	388.7	398.9	406.9	401.2
55°	5549.9	4756.6	2048.1	487.6	425.1	404.6	413.7	394.4	387.6	380.8	387.6
57.5°	5746.5	4885.0	1790.1	462.6	416.0	401.2	419.4	393.3	378.5	359.2	352.3
60°	5897.7	4914.5	1502.6	436.4	404.6	393.3	394.4	385.3	366.0	342.1	331.9
62.5°	5948.8	4931.6	1263.9	411.4	381.9	380.8	371.7	368.2	360.3	345.5	341.0
65°	5905.6	4738.4	1009.3	380.8	362.6	363.7	350.1	338.7	320.5	296.6	294.4
67.5°	5609.0	4398.5	774.0	342.1	333.0	344.4	329.6	310.3	289.8	273.9	276.2
70°	5100.9	3996.2	543.3	288.7	298.9	319.4	313.7	288.7	266.0	252.3	254.6
72.5°	4536.1	3385.9	369.4	225.0	243.2	286.4	286.4	269.4	246.6	228.5	223.9
75°	3577.9	2659.6	238.7	148.9	160.3	234.1	253.5	227.3	202.3	190.9	186.4
77.5°	2428.9	1732.1	152.3	85.2	106.8	153.4	200.0	203.4	239.8	241.0	230.7
80°	1427.5	991.1	93.2	50.0	53.4	88.7	160.3	201.2	254.6	179.6	164.8
82.5°	710.4	422.8	42.1	30.7	31.8	44.3	86.4	230.7	196.6	112.5	108.0
85°	158.0	69.3	17.0	15.9	18.2	22.7	44.3	190.9	120.5	90.9	88.7
87.5°	5.7	4.5	4.5	4.5	3.4	3.4	9.1	62.5	47.7	39.8	37.5
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)