

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: P553501

Luminaire Tested: **VERD-G-CA2-140-722-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-722-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1290mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16644 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

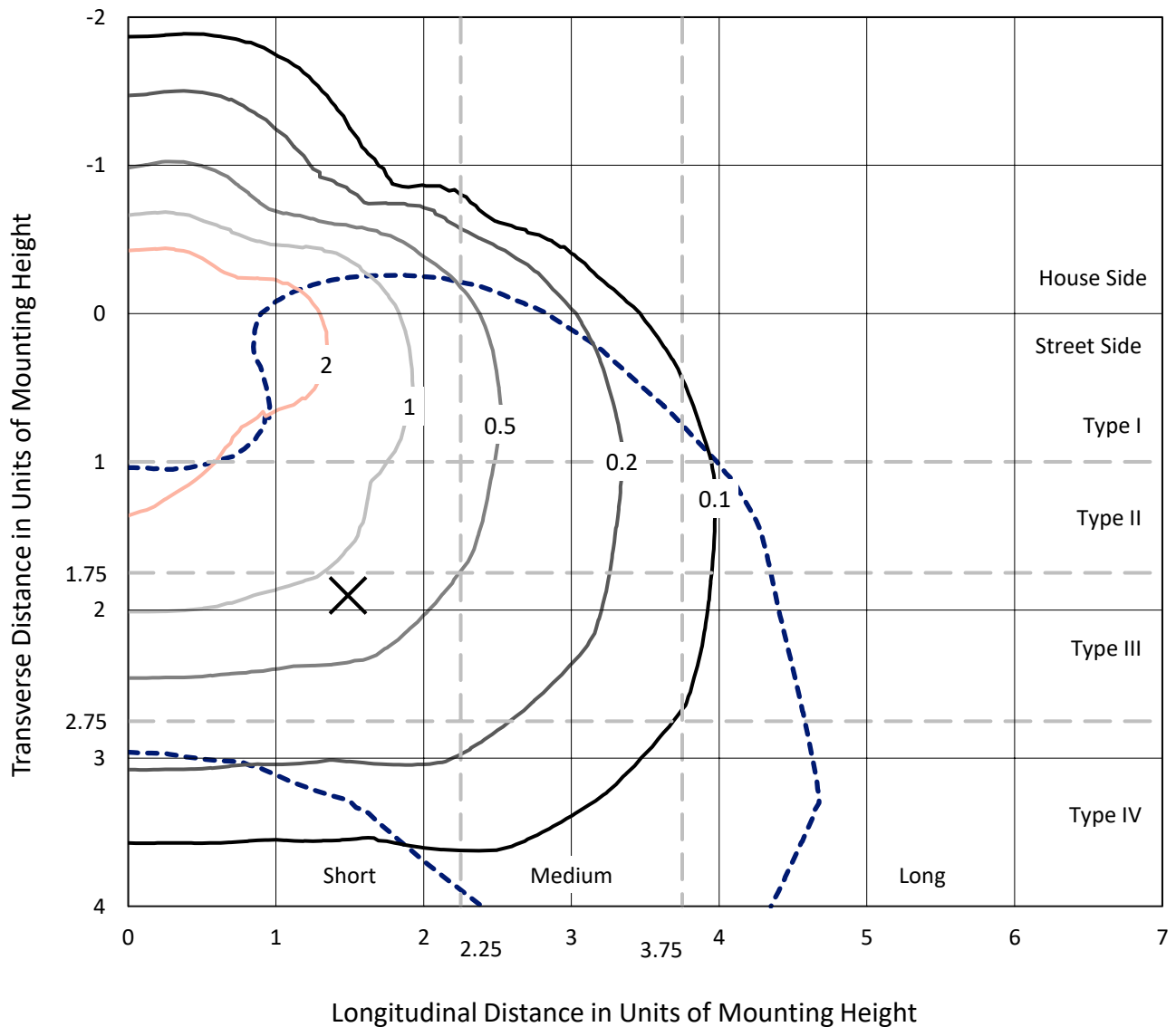
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

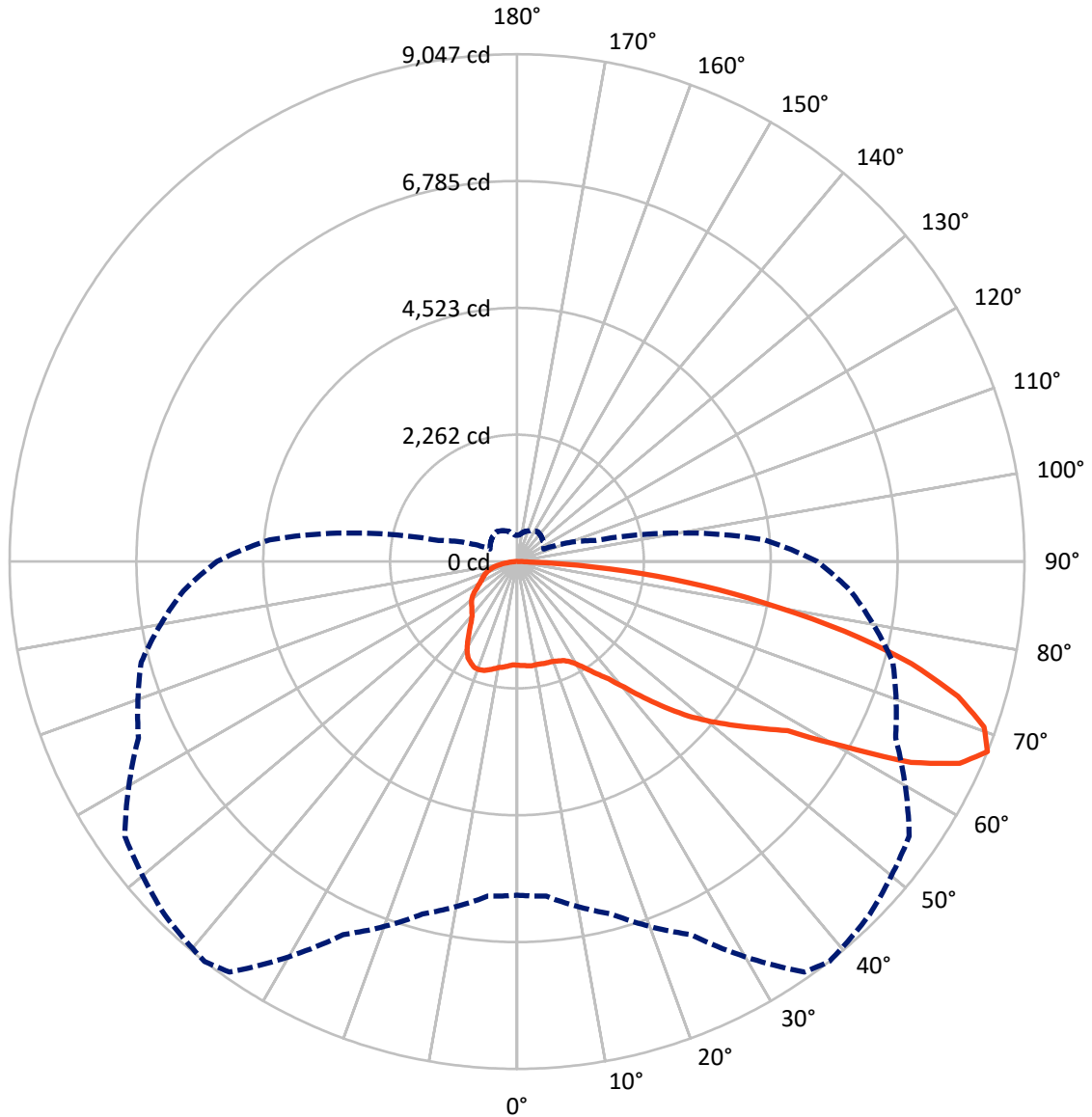
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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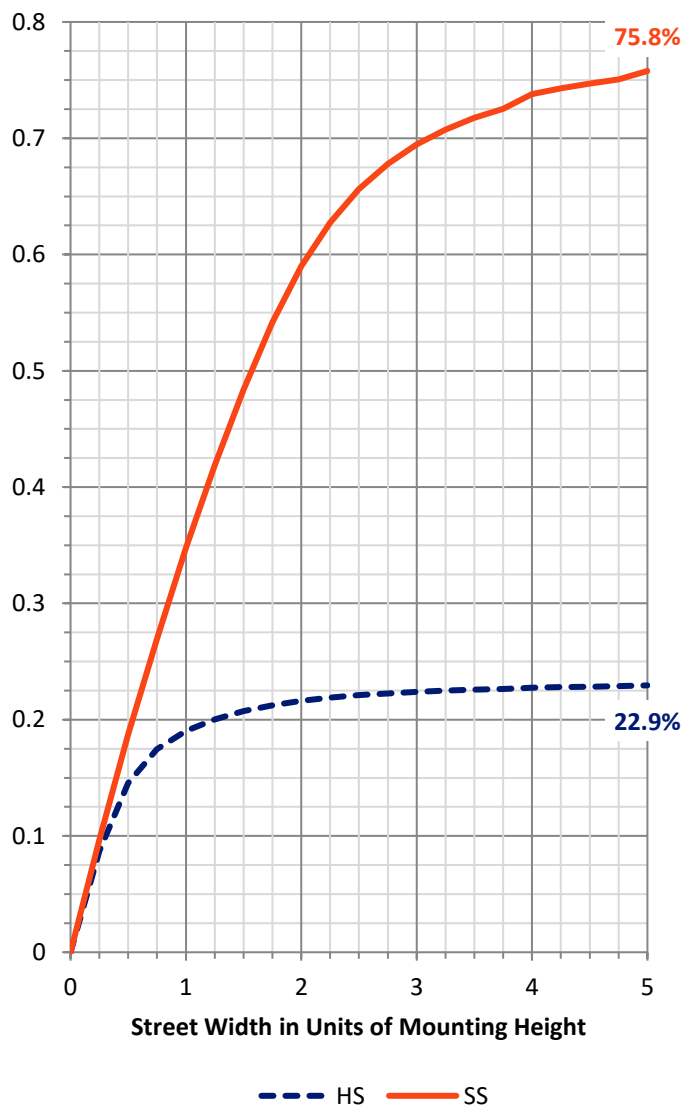
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3861.9	0.0	3861.9
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	12782.1	0.0	12782.1
	% Fixture	76.8	0.0	76.8
Total	Lumens	16644.0	0.0	16644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	1.1
10°-20°	553.3	3.3
20°-30°	937.8	5.6
30°-40°	1437.1	8.6
40°-50°	2368.0	14.2
50°-60°	3384.6	20.3
60°-70°	4216.3	25.3
70°-80°	3004.6	18.1
80°-90°	562.8	3.4
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°	16644.0	100.0
0°-180°	16644.0	100.0

Coefficient of Utilization



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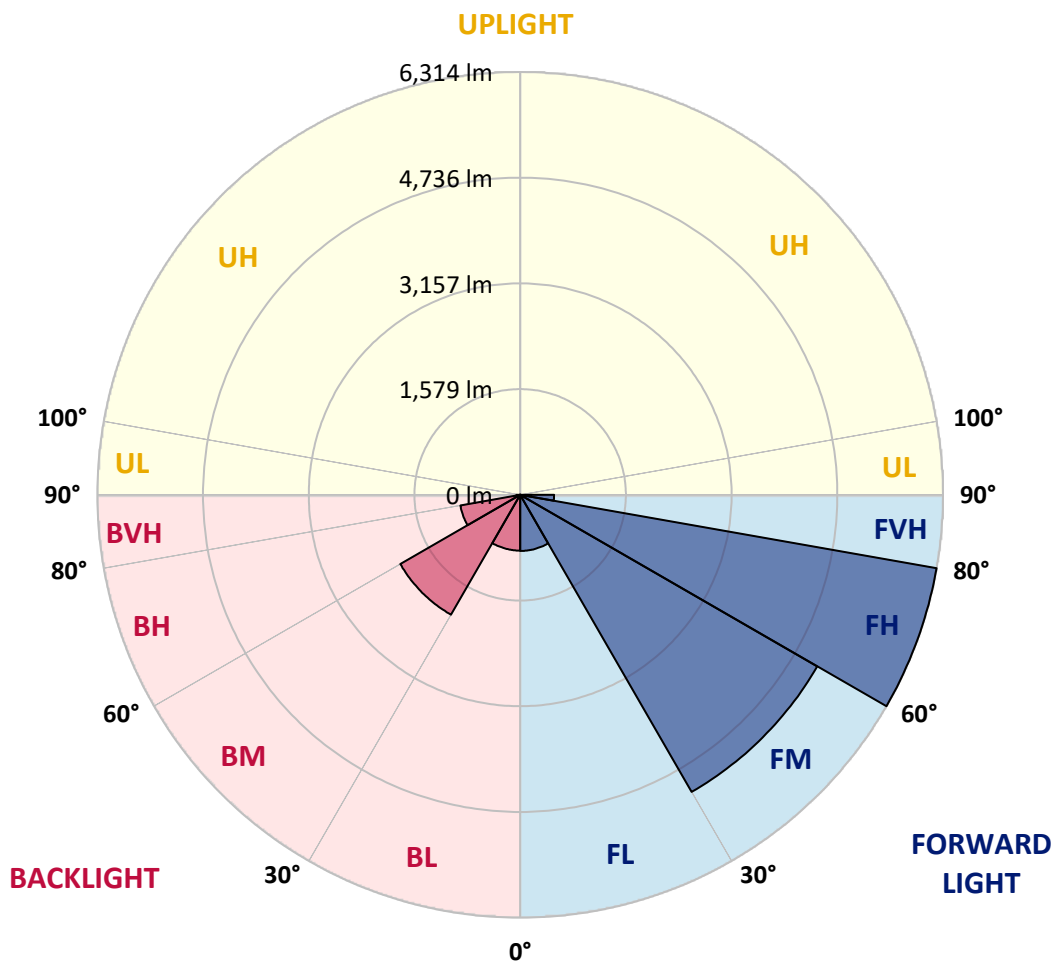
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	837.8	5.0			
FM	(30°-60°)	5122.6	30.8			
FH	(60°-80°)	6314.3	37.9			G3/7500
FVH	(80°-90°)	507.4	3.0			G4/750
BL	(0°-30°)	832.8	5.0	B2/1000		
BM	(30°-60°)	2067.1	12.4	B2/2500		
BH	(60°-80°)	906.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	55.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2
2.5°	1883.5	1891.2	1876.8	1874.6	1865.8	1854.7	1856.9	1848.1	1837.0	1841.4	1843.7
5°	1894.5	1894.5	1883.5	1872.4	1868.0	1865.8	1868.0	1858.0	1855.8	1863.6	1856.9
7.5°	1884.6	1891.2	1872.4	1872.4	1864.7	1877.9	1879.0	1866.9	1875.7	1875.7	1874.6
10°	1882.4	1884.6	1876.8	1861.3	1860.2	1868.0	1883.5	1887.9	1892.3	1891.2	1895.6
12.5°	1856.9	1854.7	1839.2	1843.7	1864.7	1872.4	1899.0	1911.1	1927.7	1932.1	1934.3
15°	1824.9	1833.7	1834.8	1848.1	1870.2	1882.4	1908.9	1933.2	1969.7	1978.6	1977.5
17.5°	1828.2	1831.5	1837.0	1844.8	1879.0	1884.6	1927.7	1954.2	1999.6	2030.6	2046.0
20°	1849.2	1842.5	1853.6	1873.5	1892.3	1896.7	1942.1	1983.0	2044.9	2085.9	2103.6
22.5°	1884.6	1885.7	1891.2	1891.2	1904.5	1924.4	1966.4	1998.5	2074.8	2132.3	2163.3
25°	1917.8	1920.0	1926.6	1924.4	1946.5	1955.4	1995.2	2043.8	2131.2	2198.7	2258.4
27.5°	1967.5	1974.2	1969.7	1970.8	2014.0	2022.8	2040.5	2105.8	2195.4	2286.0	2392.2
30°	2060.4	2060.4	2056.0	2060.4	2106.9	2129.0	2134.5	2198.7	2271.7	2381.2	2541.5
32.5°	2194.2	2195.4	2167.7	2189.8	2241.8	2280.5	2297.1	2398.8	2480.7	2533.8	2740.6
35°	2480.7	2468.5	2439.8	2375.6	2408.8	2456.4	2509.4	2638.8	2819.1	3017.1	3225.0
37.5°	2919.8	2918.7	2816.9	2688.6	2631.1	2655.4	2729.5	2923.1	3205.1	3699.5	3883.1
40°	3407.5	3419.7	3272.6	3112.2	2943.0	2945.2	2964.0	3206.2	3614.3	4328.8	4425.0
42.5°	3894.1	3874.2	3711.6	3557.9	3327.9	3313.5	3263.7	3492.7	4042.3	4832.0	4845.3
45°	4327.7	4317.7	4137.4	3981.5	3764.7	3709.4	3653.0	3799.0	4450.4	5239.0	5151.6
47.5°	4734.7	4747.9	4499.1	4358.6	4144.1	4116.4	4051.2	4144.1	4854.1	5558.6	5400.5
50°	5198.1	5203.6	4906.1	4732.4	4520.1	4484.7	4459.3	4577.6	5271.1	5863.9	5653.7
52.5°	5716.8	5608.4	5318.6	5079.7	4876.2	4849.7	4835.3	4959.2	5727.8	6131.5	5820.7
55°	6369.3	6224.4	5928.0	5532.1	5235.7	5240.1	5190.3	5335.2	6112.7	6316.2	5983.3
57.5°	6654.6	6687.8	6632.5	6272.0	5752.2	5688.0	5565.2	5676.9	6478.8	6533.0	6111.6
60°	7192.1	7320.4	7201.0	6999.7	6846.0	6677.8	6078.4	6120.4	6812.8	6773.0	6126.0
62.5°	7228.6	7272.9	7650.0	7682.1	7831.4	7887.8	7391.2	6623.7	7115.8	6893.5	6174.6
65°	6870.3	6920.1	7374.6	7773.9	8595.6	8673.0	8516.0	7544.9	7361.3	6958.8	6135.9
67.5°	5949.0	5989.9	6506.4	7340.3	8935.1	9046.8	8894.2	8535.9	7447.6	6936.6	5965.6
70°	5088.6	5111.8	5540.9	6707.7	8701.8	8833.4	8772.6	8573.5	7444.3	6806.1	5589.6
72.5°	3997.0	4064.4	4410.6	5563.0	8112.3	8222.9	8240.6	8342.3	7255.2	6377.0	4749.0
75°	2898.7	2935.2	3327.9	4322.1	7001.9	7266.2	7577.0	7960.8	6544.0	5413.7	3511.5
77.5°	2042.7	2078.1	2447.5	3277.0	5667.0	5967.8	6529.6	6755.3	5309.8	4057.8	1848.1
80°	1344.9	1340.4	1692.1	2425.4	4252.5	4463.7	4880.6	4578.7	3081.2	1764.0	201.3
82.5°	789.7	833.9	1083.9	1666.7	2971.7	3089.0	3077.9	2411.0	1223.2	182.5	102.9
85°	455.7	472.2	639.3	987.6	1637.9	1654.5	1482.0	935.7	303.0	81.8	60.8
87.5°	203.5	195.8	254.4	326.3	298.6	222.3	138.2	38.7	23.2	15.5	10.0
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°	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2	1849.2
2.5°	1834.8	1829.3	1856.9	1841.4	1854.7	1847.0	1840.3	1849.2	1865.8	1880.1	1871.3
5°	1849.2	1852.5	1874.6	1855.8	1873.5	1870.2	1861.3	1871.3	1897.8	1911.1	1910.0
7.5°	1865.8	1868.0	1891.2	1883.5	1891.2	1884.6	1899.0	1892.3	1915.5	1924.4	1918.9
10°	1885.7	1889.0	1910.0	1911.1	1914.4	1910.0	1916.6	1920.0	1933.2	1950.9	1939.9
12.5°	1928.8	1936.6	1952.0	1968.6	1966.4	1948.7	1954.2	1936.6	1948.7	1954.2	1963.1
15°	1988.5	2007.3	2016.2	2039.4	2018.4	2008.4	1987.4	1952.0	1941.0	1935.4	1926.6
17.5°	2052.7	2070.4	2087.0	2116.8	2082.5	2056.0	2019.5	1953.1	1903.4	1885.7	1877.9
20°	2124.6	2141.2	2171.0	2190.9	2140.1	2082.5	2023.9	1926.6	1828.2	1760.7	1768.4
22.5°	2205.3	2241.8	2261.7	2256.2	2184.3	2105.8	2005.1	1856.9	1730.8	1630.2	1623.6
25°	2317.0	2338.0	2345.8	2294.9	2208.6	2089.2	1942.1	1774.0	1598.1	1485.3	1468.7
27.5°	2434.2	2456.4	2415.4	2320.3	2200.9	2050.5	1871.3	1632.4	1444.4	1336.0	1323.8
30°	2584.7	2579.1	2463.0	2312.6	2156.6	1957.6	1741.9	1487.5	1313.9	1213.2	1207.7
32.5°	2748.3	2707.4	2501.7	2275.0	2072.6	1835.9	1577.1	1350.4	1216.6	1115.9	1111.5
35°	3135.4	2947.4	2558.1	2227.4	1948.7	1667.8	1424.5	1247.5	1139.1	1025.2	1003.1
37.5°	3703.9	3400.9	2674.2	2178.8	1807.2	1501.9	1297.3	1171.2	1068.4	946.7	925.7
40°	4233.7	3862.0	2877.7	2142.3	1680.0	1368.1	1209.9	1118.1	1018.6	896.9	870.4
42.5°	4609.7	4220.4	3122.2	2082.5	1552.8	1261.9	1173.4	1098.2	1005.3	892.5	871.5
45°	4912.7	4530.1	3364.4	2015.1	1403.5	1171.2	1135.8	1081.6	988.7	879.2	854.9
47.5°	5126.2	4724.7	3532.5	1938.8	1260.8	1115.9	1103.8	1055.1	963.3	860.4	845.0
50°	5346.3	4942.6	3647.5	1860.2	1132.5	1073.9	1059.5	995.4	911.3	819.5	802.9
52.5°	5490.0	5048.8	3713.8	1844.8	1023.0	1016.4	998.7	937.9	858.2	758.7	738.8
55°	5599.5	5142.8	3703.9	1754.1	924.6	941.2	930.1	884.8	815.1	717.8	704.5
57.5°	5626.1	5157.1	3613.2	1473.2	831.7	840.5	846.1	854.9	787.5	706.7	684.6
60°	5702.4	5089.7	3452.8	1059.5	722.2	744.3	788.6	796.3	749.8	658.1	644.8
62.5°	5653.7	5044.3	3104.5	746.5	644.8	690.1	732.2	732.2	668.0	582.8	574.0
65°	5568.6	4865.2	2428.7	588.4	603.9	650.3	689.0	662.5	607.2	527.5	522.0
67.5°	5351.8	4428.3	1449.9	529.8	575.1	619.3	647.0	607.2	555.2	476.7	467.8
70°	4729.1	3529.2	551.9	502.1	546.3	577.3	595.0	554.1	503.2	424.7	417.0
72.5°	3754.8	2207.5	350.6	467.8	509.9	537.5	548.6	501.0	420.3	330.7	321.8
75°	2259.5	630.4	304.1	404.8	449.0	496.6	477.8	415.8	355.0	277.6	272.1
77.5°	571.8	191.3	271.0	326.3	365.0	421.4	420.3	374.9	309.7	226.7	217.9
80°	137.1	133.8	220.1	241.1	275.4	322.9	318.5	311.9	245.5	157.0	129.4
82.5°	87.4	92.9	149.3	134.9	157.0	188.0	213.5	201.3	183.6	96.2	86.3
85°	58.6	74.1	73.0	50.9	70.8	106.2	138.2	126.1	104.0	59.7	53.1
87.5°	8.8	10.0	13.3	19.9	31.0	52.0	68.6	67.5	50.9	37.6	35.4
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)