

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: P509486

Luminaire Tested: **VERD-G-CA2-110-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-110-722-U-T3-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1020mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12385 lumens
Efficiency: N/A
Efficacy: 109.4 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

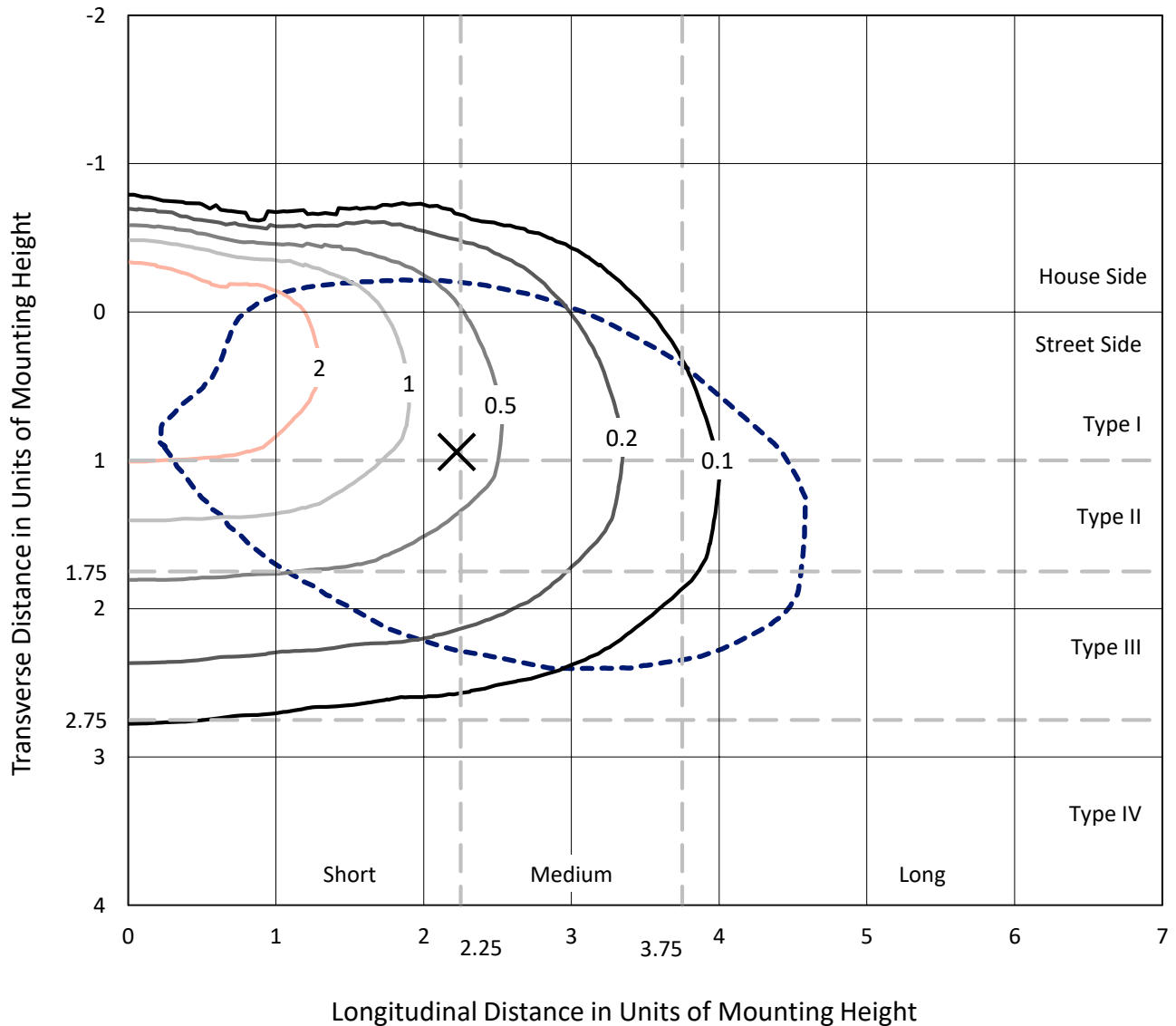
Input Watts (W): 113.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

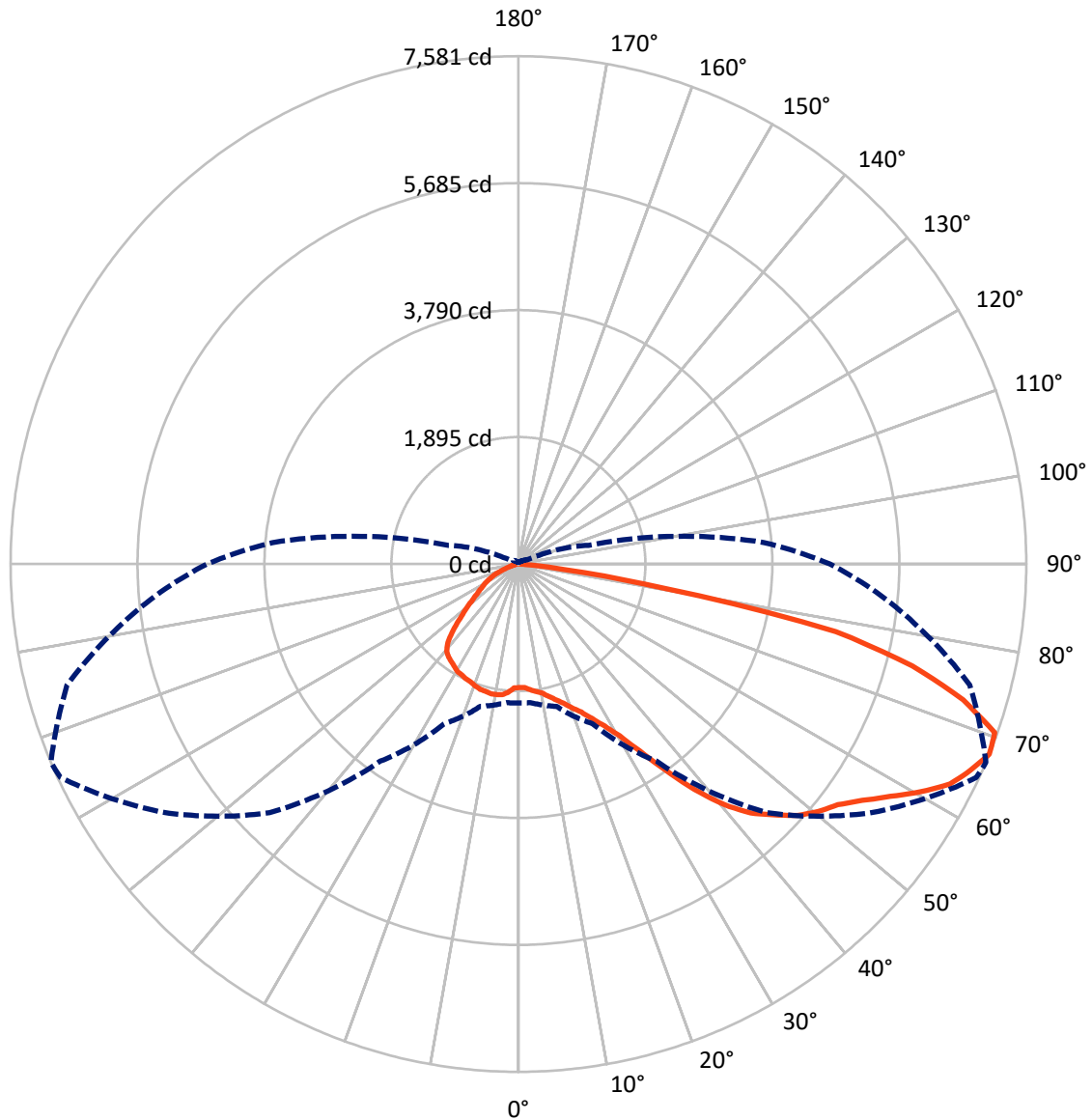
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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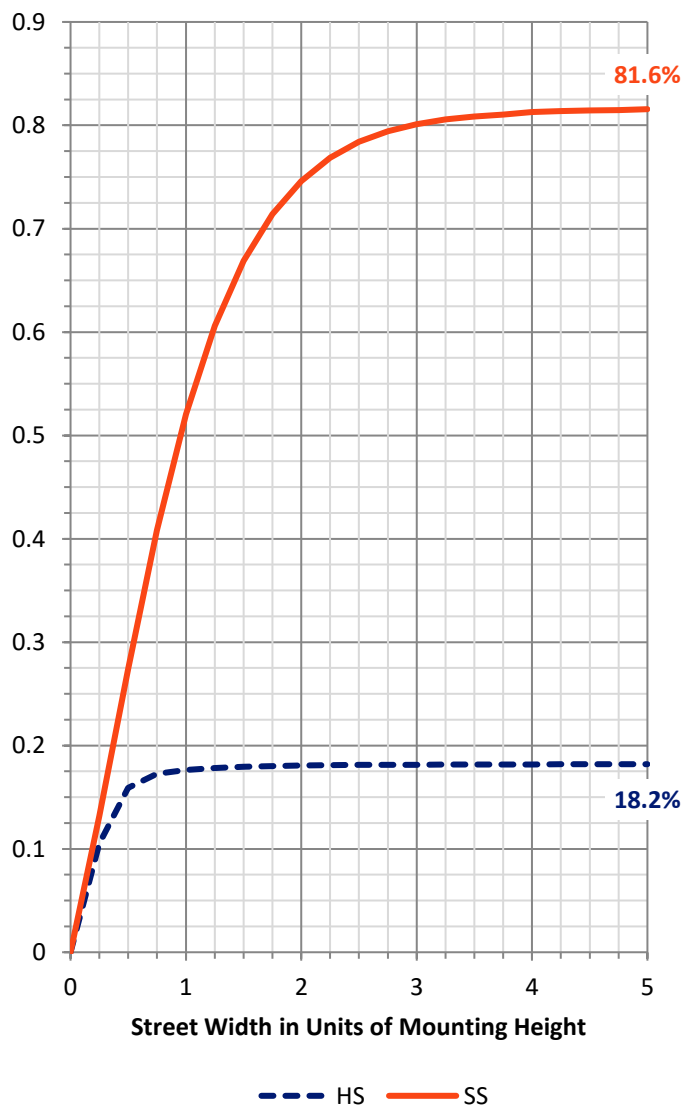
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2279.6	0.0	2279.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10105.4	0.0	10105.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	12385.0	0.0	12385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	1.5
10°-20°	579.7	4.7
20°-30°	988.4	8.0
30°-40°	1507.5	12.2
40°-50°	2125.1	17.2
50°-60°	2568.7	20.7
60°-70°	2705.3	21.8
70°-80°	1609.3	13.0
80°-90°	115.7	0.9
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°	12385.0	100.0
0°-180°	12385.0	100.0

Coefficient of Utilization



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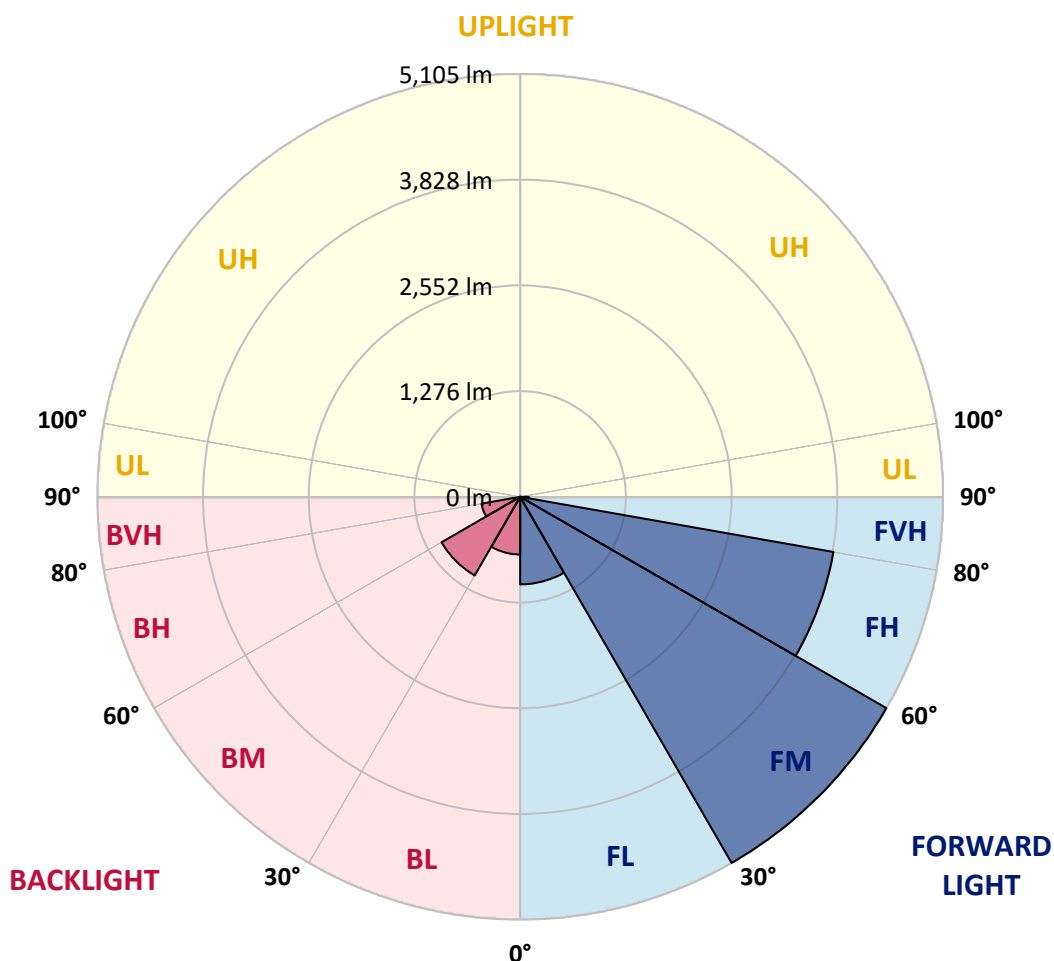
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.3	8.5			
FM (30°-60°)	5104.5	41.2			
FH (60°-80°)	3840.0	31.0			G2/5000
FVH (80°-90°)	103.5	0.8			G2/225
BL (0°-30°)	696.2	5.6	B2/1000		
BM (30°-60°)	1096.7	8.9	B2/2500		
BH (60°-80°)	474.6	3.8	B1/500		G1/500
BVH (80°-90°)	12.2	0.1			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7
2.5°	1882.7	1889.8	1875.6	1872.1	1853.5	1856.1	1852.6	1843.7	1847.3	1840.2	1844.6
5°	1955.4	1936.8	1931.4	1920.8	1904.0	1894.2	1880.1	1875.6	1885.4	1877.4	1879.2
7.5°	2032.5	2036.0	2012.1	1991.7	1961.6	1954.5	1929.7	1914.6	1924.4	1913.7	1919.9
10°	2129.0	2134.3	2108.6	2081.2	2055.5	2018.3	1987.3	1963.3	1960.7	1955.4	1964.2
12.5°	2255.7	2254.8	2226.5	2192.8	2142.3	2116.6	2057.3	2023.6	2028.0	2008.5	2006.8
15°	2402.8	2390.4	2357.6	2323.1	2260.1	2209.6	2137.9	2096.2	2103.3	2081.2	2075.9
17.5°	2546.3	2533.9	2508.2	2470.1	2412.5	2334.6	2246.9	2186.6	2184.8	2174.2	2142.3
20°	2693.4	2698.7	2664.2	2629.6	2572.0	2467.5	2368.2	2290.3	2292.0	2273.4	2211.4
22.5°	2865.3	2855.5	2813.9	2797.9	2732.4	2618.1	2507.3	2417.9	2400.1	2396.6	2289.4
25°	3029.2	3023.0	2984.9	2966.3	2911.3	2806.8	2663.3	2556.1	2553.4	2541.9	2390.4
27.5°	3159.4	3166.5	3163.0	3149.7	3089.4	2986.7	2860.8	2732.4	2734.2	2717.3	2521.5
30°	3344.6	3323.3	3315.4	3326.0	3320.7	3209.9	3076.1	2983.1	2976.9	2933.5	2687.2
32.5°	3452.7	3463.3	3473.9	3511.2	3512.0	3429.6	3342.8	3298.5	3323.3	3330.4	3099.2
35°	3551.9	3551.9	3613.0	3707.0	3739.7	3711.4	3674.2	3730.0	3778.7	3877.1	3606.0
37.5°	3640.5	3666.2	3723.8	3841.6	3948.8	3976.3	4057.8	4211.1	4270.4	4359.9	4033.0
40°	3714.9	3733.5	3807.1	3951.5	4135.8	4261.6	4414.0	4657.6	4719.6	4702.8	4270.4
42.5°	3632.5	3662.7	3780.5	4077.3	4309.4	4546.0	4745.3	5008.5	5083.8	4927.9	4520.3
45°	3588.2	3599.8	3722.9	4059.6	4437.0	4833.9	5059.9	5341.6	5341.6	5167.1	4696.6
47.5°	3499.6	3520.0	3666.2	4036.5	4572.6	5074.0	5302.6	5589.7	5608.3	5393.0	4872.0
50°	3410.2	3435.9	3601.5	3995.8	4648.8	5315.0	5509.1	5797.0	5804.1	5548.0	5027.1
52.5°	3321.6	3334.8	3520.0	3969.2	4732.9	5439.1	5687.1	5965.3	5968.9	5780.2	5198.1
55°	3163.0	3195.7	3387.1	3871.8	4728.5	5495.8	5780.2	6190.4	6224.9	6032.7	5366.4
57.5°	3014.1	3023.9	3233.0	3730.9	4656.7	5561.3	5980.4	6512.9	6546.5	6262.1	5491.3
60°	2815.7	2826.3	3051.3	3563.4	4550.4	5626.9	6234.7	6889.4	6904.5	6503.1	5585.3
62.5°	2608.3	2644.7	2829.8	3306.5	4329.8	5638.4	6450.0	7236.7	7230.5	6712.2	5647.3
65°	2364.7	2378.0	2556.1	3006.1	3992.2	5550.7	6538.6	7405.1	7420.1	6859.3	5606.5
67.5°	2072.3	2077.6	2199.9	2632.3	3592.7	5248.6	6465.0	7542.4	7580.5	6974.5	5436.4
70°	1637.3	1645.3	1757.8	2168.9	3025.6	4786.1	6341.0	7558.3	7542.4	6870.8	5177.7
72.5°	1141.1	1129.6	1239.5	1521.2	2291.2	3936.4	5742.1	6915.1	6943.5	6356.9	4636.4
75°	546.7	550.2	768.1	935.6	1286.5	2812.1	4779.0	5954.7	6073.4	5540.1	3777.0
77.5°	93.0	94.8	202.9	368.6	518.3	1180.1	3169.2	4742.7	4843.7	4348.4	2557.0
80°	74.4	74.4	99.2	198.5	274.7	489.1	1200.5	2102.4	2212.3	1969.5	942.7
82.5°	50.5	53.2	70.9	116.1	97.5	191.4	435.9	665.4	683.1	619.3	387.2
85°	28.4	29.2	36.3	47.0	40.8	70.9	89.5	91.3	96.6	75.3	57.6
87.5°	3.5	8.0	8.0	8.0	3.5	3.5	2.7	2.7	3.5	2.7	2.7
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°	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7	1843.7
2.5°	1842.0	1831.3	1854.4	1849.9	1865.9	1863.2	1876.5	1883.6	1898.7	1918.2	1916.4
5°	1880.9	1880.1	1907.5	1920.8	1935.0	1948.3	1949.2	1962.5	1975.7	2005.0	2004.1
7.5°	1918.2	1926.1	1965.1	1966.0	1971.3	1981.1	1967.8	1972.2	1975.7	1986.4	1989.9
10°	1961.6	1976.6	1977.5	1974.0	1957.1	1956.3	1926.1	1929.7	1913.7	1926.1	1919.9
12.5°	2017.4	2005.0	1997.9	1974.0	1948.3	1913.7	1885.4	1846.4	1837.5	1837.5	1840.2
15°	2072.3	2053.7	1992.6	1954.5	1907.5	1852.6	1806.5	1762.2	1740.1	1730.3	1728.6
17.5°	2120.2	2081.2	1994.4	1944.7	1856.1	1775.5	1706.4	1635.5	1601.0	1578.8	1575.3
20°	2159.1	2117.5	1999.7	1912.8	1800.3	1681.6	1577.1	1487.6	1419.3	1368.8	1374.2
22.5°	2224.7	2158.3	1996.1	1874.7	1735.6	1581.5	1423.8	1300.6	1186.3	1158.0	1166.0
25°	2303.6	2216.7	2016.5	1851.7	1660.3	1455.7	1248.4	1105.7	983.4	944.5	947.1
27.5°	2394.8	2287.6	2039.5	1813.6	1582.4	1300.6	1050.8	874.5	777.0	699.9	693.7
30°	2540.1	2384.2	2064.3	1788.8	1473.4	1127.9	835.5	652.1	529.8	488.2	488.2
32.5°	2881.2	2580.0	2104.2	1729.4	1329.9	934.7	609.6	427.0	319.0	281.7	282.6
35°	3314.5	2975.1	2194.6	1656.8	1160.6	708.8	376.5	237.4	186.9	168.3	166.6
37.5°	3728.2	3338.4	2387.7	1571.7	947.1	449.2	211.8	146.2	127.6	126.7	127.6
40°	3983.4	3625.5	2581.8	1458.3	692.0	247.2	137.3	119.6	117.0	114.3	114.3
42.5°	4219.1	3823.0	2728.8	1284.7	412.9	149.7	120.5	109.0	107.2	102.8	102.8
45°	4410.4	3964.8	2740.4	1053.4	218.8	132.9	110.7	99.2	95.7	93.0	92.1
47.5°	4592.1	4103.0	2698.7	807.1	155.9	123.2	103.7	91.3	86.8	88.6	87.7
50°	4714.3	4241.2	2585.3	634.4	148.8	114.3	95.7	83.3	81.5	85.1	84.2
52.5°	4846.3	4354.6	2364.7	493.5	138.2	105.4	87.7	78.0	74.4	77.1	78.0
55°	4950.9	4352.8	2202.6	385.4	131.1	98.3	82.4	73.5	67.3	67.3	66.4
57.5°	5002.3	4311.2	2072.3	303.0	123.2	91.3	77.1	64.7	57.6	55.8	54.9
60°	4999.6	4270.4	1920.8	249.0	115.2	83.3	69.1	54.9	47.8	44.3	44.3
62.5°	4971.3	4174.8	1680.7	214.4	107.2	77.1	57.6	45.2	39.9	36.3	37.2
65°	4898.6	3990.5	1385.7	182.5	99.2	74.4	48.7	39.9	34.6	31.0	31.0
67.5°	4647.0	3681.3	1080.9	153.3	91.3	62.0	42.5	33.7	29.2	25.7	25.7
70°	4290.8	3209.9	711.4	129.4	81.5	54.0	38.1	29.2	24.8	21.3	20.4
72.5°	3657.3	2564.9	361.5	110.7	70.0	47.8	33.7	25.7	21.3	17.7	16.8
75°	2805.0	1727.7	225.0	88.6	54.9	42.5	30.1	23.0	17.7	13.3	12.4
77.5°	1672.7	695.5	159.5	62.0	37.2	33.7	24.8	18.6	14.2	9.7	9.7
80°	528.0	307.4	108.1	42.5	23.9	23.0	18.6	13.3	9.7	7.1	7.1
82.5°	298.6	194.9	72.7	28.4	16.8	15.1	10.6	8.0	6.2	5.3	5.3
85°	49.6	39.0	22.1	10.6	8.0	7.1	4.4	2.7	1.8	0.9	1.8
87.5°	2.7	2.7	3.5	3.5	3.5	2.7	1.8	0.0	0.0	0.0	0.0
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)