

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: P509063

Luminaire Tested: **VERD-CA2-100-727-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-727-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1370mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11819 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

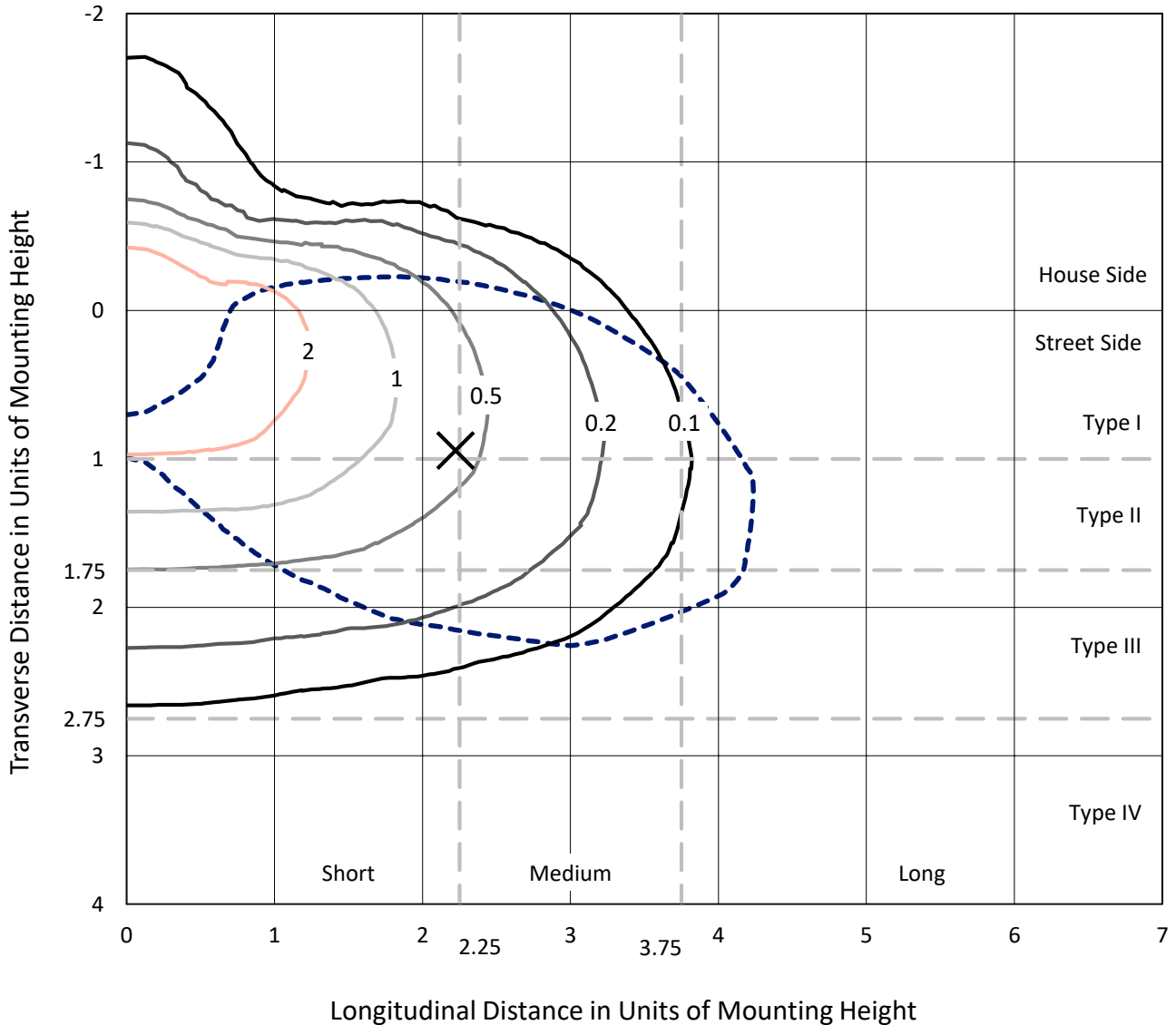
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

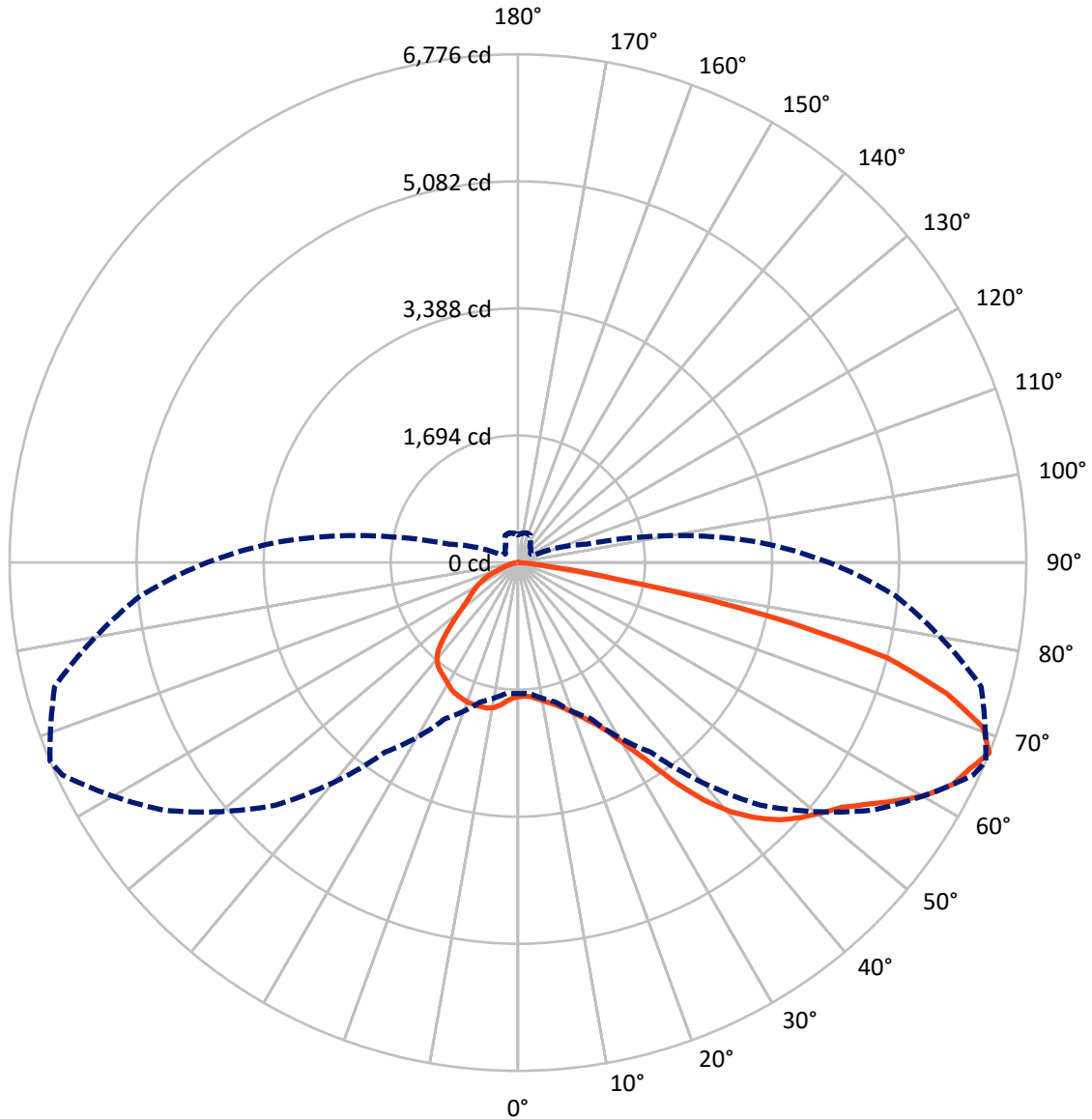
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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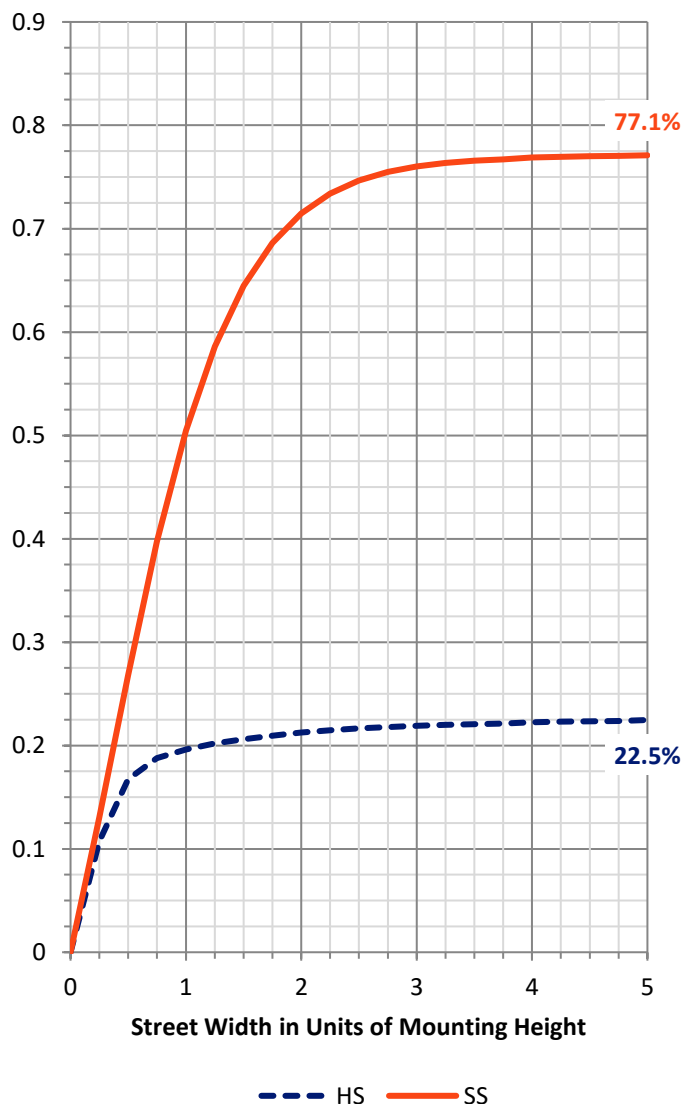
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2702.5	0.0	2702.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9116.5	0.0	9116.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	11819.0	0.0	11819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.5
10°-20°	579.5	4.9
20°-30°	1001.4	8.5
30°-40°	1519.9	12.9
40°-50°	2065.4	17.5
50°-60°	2456.3	20.8
60°-70°	2527.2	21.4
70°-80°	1378.6	11.7
80°-90°	109.5	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°	11819.0	100.0
0°-180°	11819.0	100.0

Coefficient of Utilization



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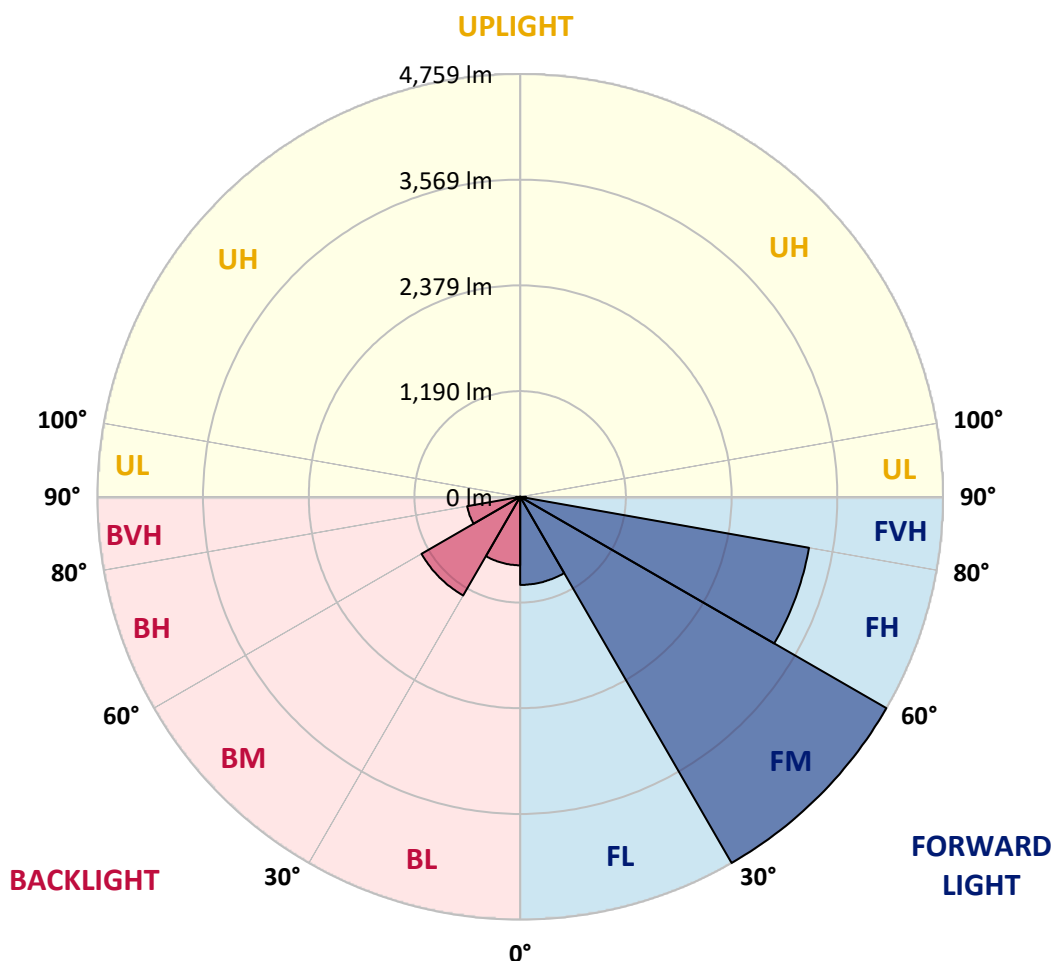
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.3	8.4			
FM (30°-60°)	4758.8	40.3			
FH (60°-80°)	3300.8	27.9			G2/5000
FVH (80°-90°)	65.6	0.6			G1/100
BL (0°-30°)	770.6	6.5	B2/1000		
BM (30°-60°)	1282.8	10.9	B2/2500		
BH (60°-80°)	605.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	44.0	0.4			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°	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0
2.5°	1798.3	1790.6	1780.3	1784.2	1776.5	1789.3	1784.2	1781.6	1781.6	1782.9	1789.3
5°	1839.2	1831.5	1823.9	1822.6	1807.2	1812.3	1804.7	1797.0	1797.0	1795.7	1798.3
7.5°	1910.9	1900.7	1891.7	1890.4	1871.2	1868.7	1845.6	1830.3	1830.3	1829.0	1832.8
10°	2005.6	2001.8	1983.8	1972.3	1949.3	1933.9	1905.8	1881.5	1876.3	1868.7	1878.9
12.5°	2096.5	2095.2	2078.6	2065.8	2033.8	2006.9	1960.8	1927.5	1921.1	1912.2	1919.9
15°	2210.4	2198.9	2181.0	2173.3	2127.2	2086.2	2033.8	1983.8	1977.4	1967.2	1973.6
17.5°	2335.8	2329.4	2301.3	2292.3	2234.7	2187.3	2122.1	2058.1	2047.8	2033.8	2032.5
20°	2486.8	2475.3	2453.6	2428.0	2371.7	2303.8	2228.3	2155.4	2146.4	2134.9	2110.6
22.5°	2649.4	2636.6	2614.8	2588.0	2516.3	2444.6	2349.9	2257.7	2252.6	2244.9	2200.1
25°	2804.3	2782.5	2785.1	2759.5	2695.5	2604.6	2493.2	2383.2	2380.6	2379.3	2307.7
27.5°	2969.4	2946.3	2938.7	2929.7	2869.5	2783.8	2658.4	2553.4	2544.4	2545.7	2436.9
30°	3124.2	3114.0	3107.6	3101.2	3071.8	2995.0	2874.7	2781.2	2809.4	2806.8	2657.1
32.5°	3244.5	3236.9	3263.7	3294.5	3286.8	3222.8	3139.6	3097.4	3125.5	3216.4	3085.8
35°	3350.8	3346.9	3398.1	3463.4	3509.5	3463.4	3454.5	3519.7	3585.0	3736.0	3660.5
37.5°	3466.0	3460.9	3504.4	3615.7	3696.4	3710.4	3778.3	3945.9	4008.6	4159.7	4001.0
40°	3464.7	3471.1	3576.0	3718.1	3865.3	3984.3	4123.8	4286.4	4367.0	4438.7	4193.0
42.5°	3408.4	3412.2	3544.0	3814.1	4027.8	4262.1	4386.2	4594.8	4649.9	4664.0	4419.5
45°	3350.8	3353.3	3496.7	3800.0	4163.5	4521.9	4660.1	4850.8	4893.1	4844.4	4573.1
47.5°	3267.6	3284.2	3439.1	3785.9	4280.0	4761.2	4872.6	5062.0	5078.6	5017.2	4701.1
50°	3169.0	3178.0	3355.9	3739.9	4356.8	4909.7	5041.5	5213.0	5245.0	5175.9	4859.8
52.5°	3048.7	3056.4	3249.7	3678.4	4399.0	5023.6	5170.8	5375.6	5419.1	5388.4	4999.3
55°	2910.5	2914.3	3111.4	3578.6	4387.5	5073.5	5283.4	5606.0	5678.9	5603.4	5115.8
57.5°	2737.7	2751.8	2975.8	3428.9	4300.5	5136.2	5486.9	5890.1	5983.5	5822.3	5202.8
60°	2559.8	2573.9	2777.4	3254.8	4154.6	5164.4	5696.8	6196.0	6277.9	6029.6	5256.6
62.5°	2360.1	2379.3	2548.3	2992.4	3893.5	5127.3	5851.7	6463.5	6509.6	6153.8	5242.5
65°	2069.6	2079.8	2264.1	2676.3	3553.0	4934.0	5845.3	6606.8	6622.2	6290.7	5181.0
67.5°	1747.1	1748.3	1922.4	2294.9	3084.6	4573.1	5755.7	6700.3	6775.8	6391.8	5046.6
70°	1328.5	1346.5	1482.1	1758.6	2521.4	3956.2	5460.1	6608.1	6572.3	6115.4	4661.4
72.5°	948.4	938.2	1007.3	1194.1	1765.0	3052.6	4707.5	5970.7	5978.4	5570.1	4056.0
75°	504.3	506.8	565.7	723.1	901.0	1986.4	3765.5	5044.1	5090.2	4776.6	3174.2
77.5°	112.6	128.0	194.5	276.5	391.6	636.1	2042.7	3308.5	3395.6	3143.4	1739.4
80°	87.0	88.3	128.0	157.4	172.8	304.6	648.9	1200.5	1332.4	1258.1	654.0
82.5°	57.6	58.9	84.5	87.0	83.2	139.5	294.4	359.7	395.5	345.6	243.2
85°	30.7	32.0	38.4	42.2	33.3	41.0	38.4	30.7	32.0	28.2	28.2
87.5°	6.4	3.8	5.1	3.8	3.8	2.6	3.8	3.8	3.8	3.8	3.8
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°	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0	1788.0
2.5°	1789.3	1791.9	1798.3	1808.5	1813.6	1825.1	1832.8	1852.0	1878.9	1869.9	1858.4
5°	1799.5	1807.2	1829.0	1855.9	1876.3	1907.1	1922.4	1959.5	1990.2	1987.7	1967.2
7.5°	1837.9	1854.6	1881.5	1921.1	1955.7	1986.4	2008.2	2047.8	2076.0	2064.5	2045.3
10°	1886.6	1903.2	1932.6	1968.5	1994.1	2027.4	2041.4	2073.4	2091.4	2077.3	2060.6
12.5°	1931.4	1940.3	1960.8	1987.7	2001.8	2023.5	2029.9	2053.0	2069.6	2063.2	2042.7
15°	1974.9	1973.6	1977.4	1985.1	1990.2	1995.4	1996.6	2013.3	2024.8	2012.0	1997.9
17.5°	2023.5	2010.7	1994.1	1981.3	1962.1	1953.1	1936.5	1944.2	1942.9	1932.6	1921.1
20°	2085.0	2061.9	2010.7	1971.0	1921.1	1881.5	1846.9	1840.5	1840.5	1812.3	1811.1
22.5°	2157.9	2119.5	2033.8	1946.7	1866.1	1803.4	1739.4	1702.3	1675.4	1654.9	1646.0
25°	2252.6	2182.2	2054.2	1913.5	1794.4	1680.5	1584.5	1533.3	1482.1	1448.8	1443.7
27.5°	2353.7	2276.9	2067.0	1884.0	1695.9	1539.7	1406.6	1301.7	1254.3	1232.5	1212.1
30°	2518.8	2383.2	2090.1	1821.3	1571.7	1366.9	1190.3	1067.4	1021.4	1006.0	993.2
32.5°	2919.5	2658.4	2111.8	1757.3	1438.6	1176.2	943.3	839.6	799.9	815.3	820.4
35°	3421.2	3067.9	2215.5	1683.1	1300.4	959.9	725.7	656.6	659.1	682.2	689.9
37.5°	3761.6	3428.9	2426.7	1589.6	1102.0	711.6	561.9	540.1	559.3	579.8	583.6
40°	3961.3	3594.0	2575.2	1474.4	867.8	532.4	422.4	407.0	448.0	494.0	522.2
42.5°	4173.8	3734.7	2652.0	1324.7	609.2	385.2	323.8	335.3	400.6	440.3	458.2
45°	4287.7	3844.8	2617.4	1111.0	414.7	299.5	290.5	322.5	387.8	423.6	428.8
47.5°	4410.5	3954.9	2534.2	888.3	317.4	284.1	285.4	323.8	390.4	428.8	428.8
50°	4516.8	4045.8	2385.7	696.3	302.1	273.9	286.7	330.2	394.2	427.5	426.2
52.5°	4639.6	4086.7	2174.6	563.2	286.7	264.9	288.0	335.3	387.8	407.0	404.4
55°	4678.0	4057.3	2073.4	471.0	275.2	259.8	293.1	343.0	385.2	389.1	382.7
57.5°	4678.0	3977.9	1958.2	401.9	264.9	259.8	295.7	341.7	399.3	423.6	421.1
60°	4657.6	3894.7	1781.6	359.7	250.9	257.3	296.9	360.9	474.8	501.7	500.4
62.5°	4592.3	3760.3	1564.0	317.4	236.8	258.5	293.1	387.8	542.7	531.2	503.0
65°	4437.4	3506.9	1268.4	279.0	221.4	258.5	288.0	426.2	482.5	460.8	450.5
67.5°	4145.6	3188.2	943.3	239.3	203.5	241.9	280.3	399.3	409.6	385.2	369.9
70°	3760.3	2700.6	605.4	202.2	184.3	227.8	275.2	375.0	395.5	366.1	346.9
72.5°	3133.2	2145.1	350.7	165.1	156.1	209.9	264.9	363.5	389.1	349.4	322.5
75°	2210.4	1354.1	230.4	121.6	125.4	179.2	245.7	340.5	364.8	316.1	277.7
77.5°	1126.3	508.1	163.8	89.6	84.5	136.9	212.5	313.6	359.7	318.7	272.6
80°	398.0	256.0	107.5	58.9	55.0	84.5	162.5	266.2	337.9	311.0	302.1
82.5°	170.2	128.0	58.9	37.1	33.3	42.2	92.2	209.9	296.9	281.6	340.5
85°	24.3	21.8	16.6	14.1	14.1	19.2	29.4	103.7	200.9	229.1	277.7
87.5°	3.8	3.8	3.8	2.6	2.6	2.6	1.3	15.4	66.6	99.8	138.2
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)