

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: P964168

Luminaire Tested: **NVN-SB3B-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15260.2 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

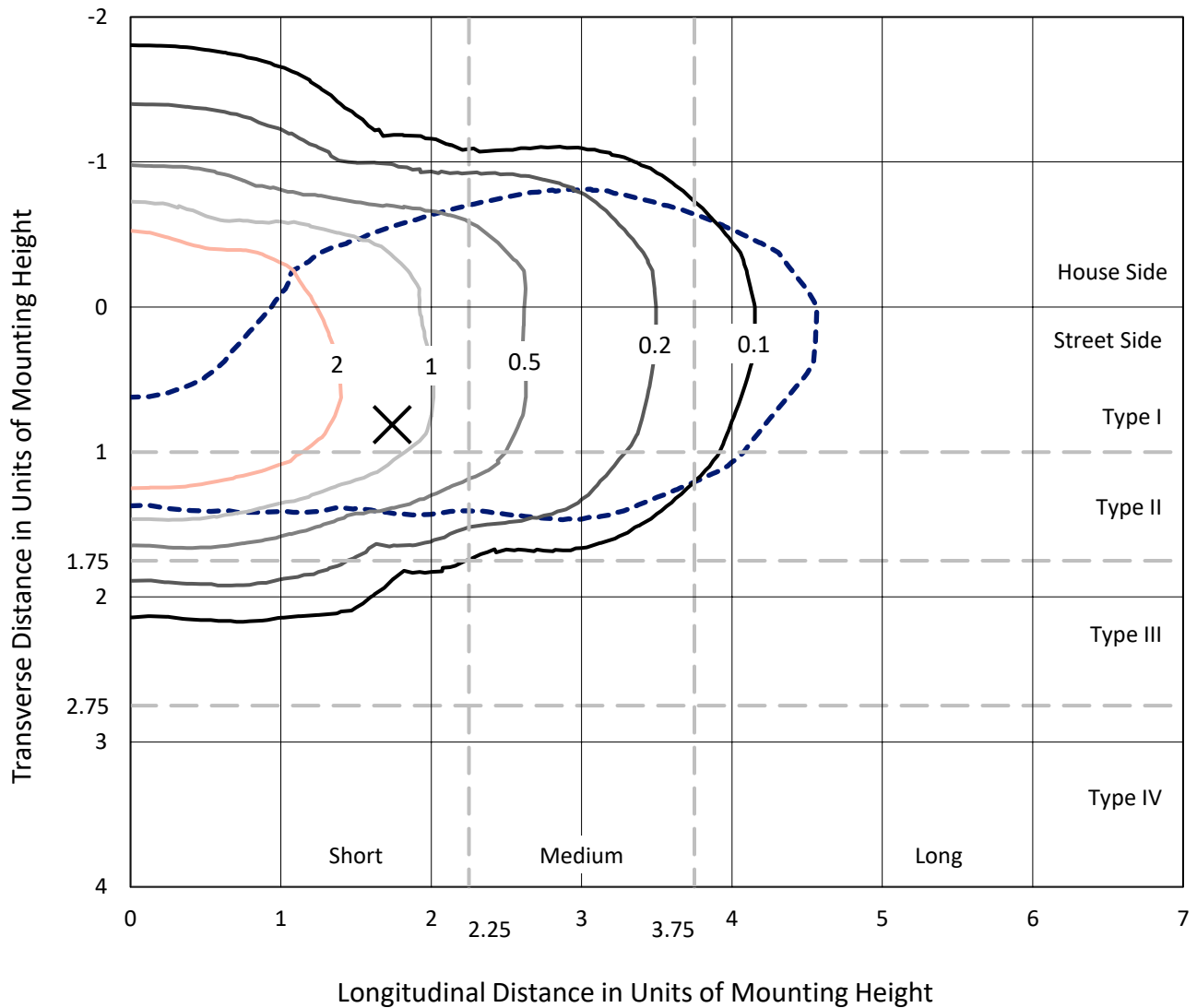
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

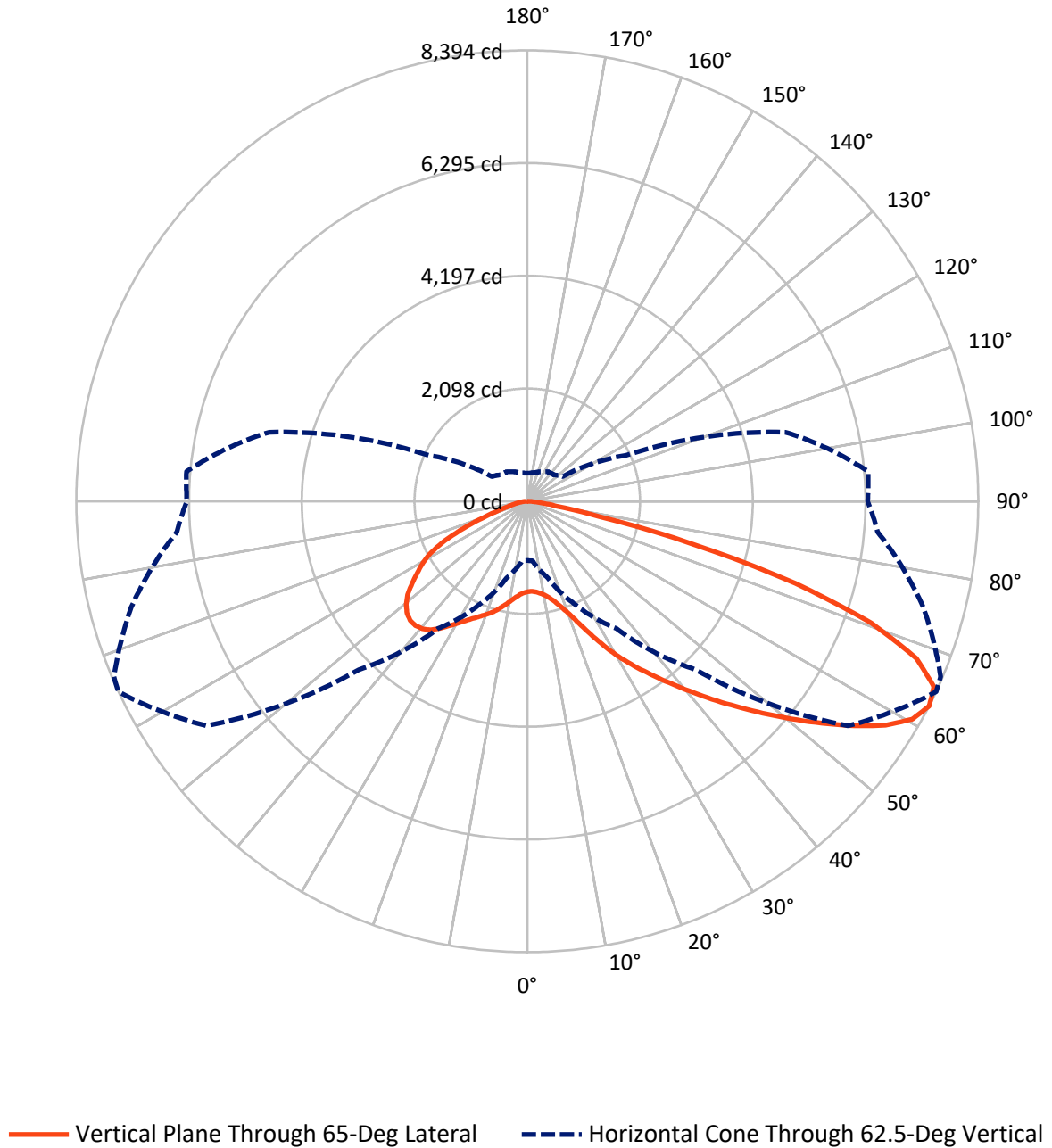
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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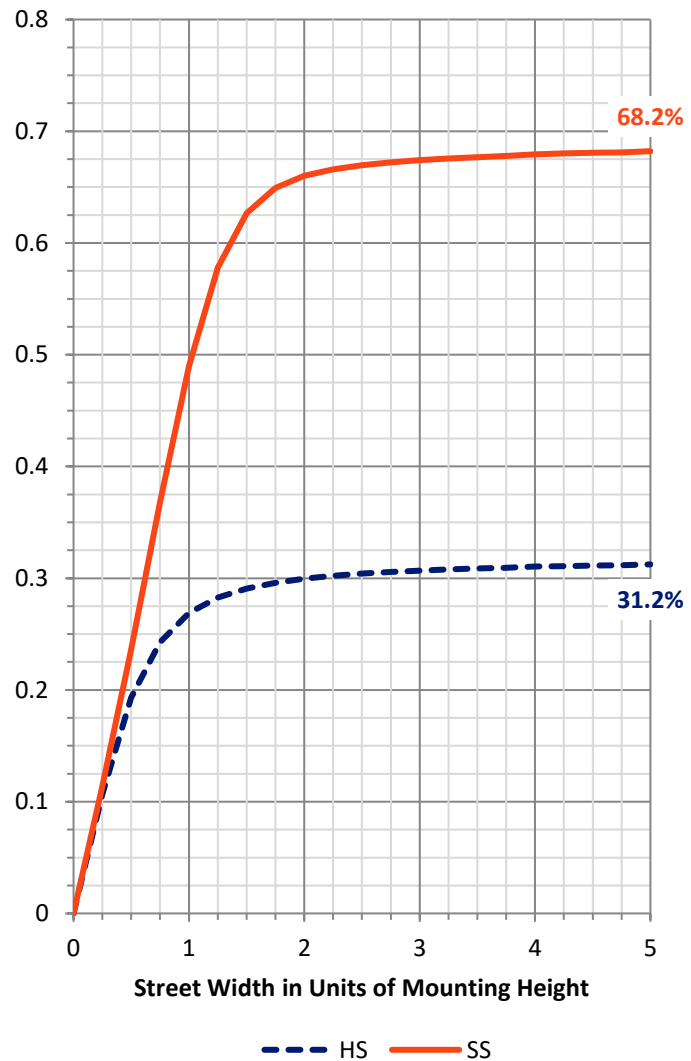
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4815.5	0.0	4815.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10444.7	0.0	10444.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	15260.2	0.0	15260.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	1.1
10°-20°	568.5	3.7
20°-30°	1152.8	7.6
30°-40°	1994.8	13.1
40°-50°	3018.8	19.8
50°-60°	3539.3	23.2
60°-70°	2967.3	19.4
70°-80°	1638.2	10.7
80°-90°	212.8	1.4
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°	15260.2	100.0
0°-180°	15260.2	100.0



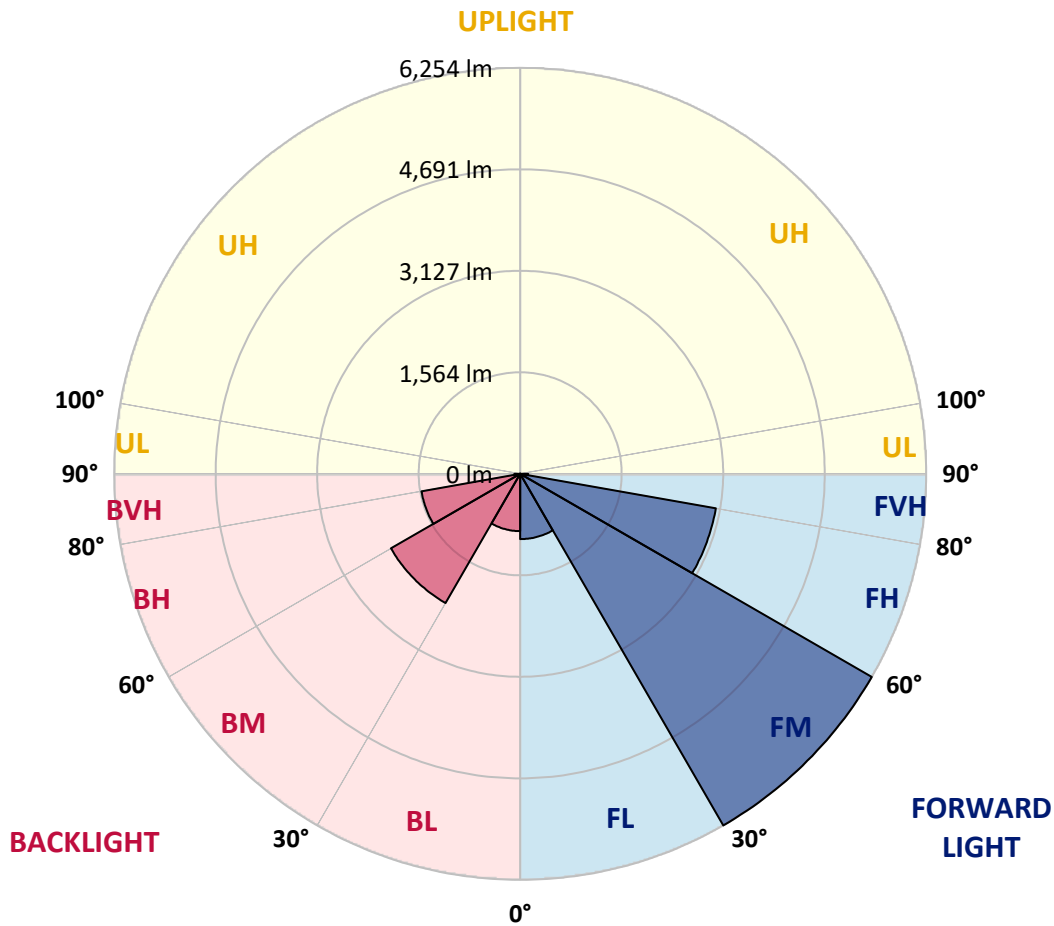
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.9	6.6			
FM (30°-60°)	6254.1	41.0			
FH (60°-80°)	3060.8	20.1			G2/5000
FVH (80°-90°)	124.0	0.8			G2/225
BL (0°-30°)	883.1	5.8	B2/1000		
BM (30°-60°)	2298.8	15.1	B2/2500		
BH (60°-80°)	1544.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	88.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6
2.5°	1670.5	1665.7	1669.7	1669.7	1671.4	1670.5	1676.1	1677.6	1680.0	1684.8	1684.8
5°	1653.9	1653.1	1660.2	1666.5	1672.9	1678.4	1685.6	1695.9	1697.4	1702.9	1710.1
7.5°	1648.4	1643.6	1654.7	1662.7	1677.6	1691.1	1710.1	1727.5	1734.6	1737.1	1750.5
10°	1691.1	1683.2	1693.5	1698.2	1710.9	1724.4	1746.5	1774.3	1782.2	1791.7	1806.7
12.5°	1763.9	1755.2	1770.3	1777.5	1789.2	1801.1	1816.2	1843.2	1847.0	1864.5	1878.7
15°	1863.7	1853.4	1862.9	1871.6	1891.4	1902.5	1917.6	1943.7	1943.7	1957.1	1967.4
17.5°	1999.1	1985.6	1992.7	1995.9	2008.6	2025.2	2050.5	2073.5	2085.4	2080.6	2066.4
20°	2201.0	2184.4	2184.4	2168.5	2163.8	2177.2	2210.5	2242.2	2254.8	2230.3	2195.4
22.5°	2504.2	2480.5	2467.0	2413.2	2391.7	2393.4	2426.6	2465.4	2475.7	2432.1	2353.8
25°	2889.8	2852.6	2834.3	2755.2	2706.9	2664.9	2691.0	2741.0	2755.2	2701.4	2574.7
27.5°	3275.3	3277.7	3260.3	3165.3	3085.4	3008.5	2995.0	3047.3	3062.4	3001.4	2844.7
30°	3816.1	3759.9	3726.6	3612.6	3498.6	3390.9	3335.6	3356.9	3360.9	3288.0	3106.0
32.5°	4282.4	4268.1	4196.9	4097.1	3950.7	3782.0	3689.4	3655.4	3649.0	3545.3	3329.2
35°	4813.6	4805.7	4730.5	4611.8	4453.4	4219.1	4052.0	3954.7	3946.8	3801.0	3550.1
37.5°	5353.6	5353.6	5280.0	5150.1	4986.2	4693.3	4439.2	4284.8	4259.5	4069.5	3774.9
40°	5784.3	5758.1	5771.6	5717.0	5529.4	5218.2	4869.1	4645.0	4611.0	4382.9	4014.0
42.5°	6028.9	6020.2	6101.0	6161.9	6085.1	5836.6	5342.5	5035.3	4987.9	4728.1	4289.5
45°	6083.6	6074.0	6218.2	6441.4	6549.1	6446.9	5857.2	5446.2	5388.4	5089.1	4584.8
47.5°	5957.7	5938.6	6150.1	6502.4	6847.6	7027.3	6414.4	5892.0	5808.1	5440.7	4888.0
50°	5579.3	5561.0	5880.8	6348.7	6948.1	7421.5	7019.4	6364.6	6236.4	5817.5	5194.5
52.5°	4756.6	4765.3	5266.6	5909.3	6815.9	7667.0	7540.3	6862.6	6708.2	6203.1	5481.8
55°	3705.3	3724.2	4340.2	5048.0	6287.0	7629.8	7895.8	7375.6	7222.0	6565.7	5778.7
57.5°	2653.0	2737.0	3314.1	4014.8	5271.3	7039.9	7973.4	7863.3	7714.5	6961.6	6069.3
60°	1719.6	1734.6	2328.4	3034.6	4014.0	5991.7	7815.8	8233.1	8116.7	7365.3	6312.4
62.5°	1102.1	1112.3	1474.2	2122.6	2889.0	4432.8	7285.4	8393.8	8358.2	7632.2	6546.0
65°	810.0	802.0	990.5	1402.9	1946.1	2733.8	6255.4	8316.2	8386.7	7799.2	6739.1
67.5°	676.1	665.0	757.7	971.4	1433.8	1552.6	4628.4	7811.8	8069.9	7780.2	6880.8
70°	615.9	606.5	662.7	721.3	1118.7	1039.6	2333.2	6791.3	7188.8	7564.1	6857.9
72.5°	521.7	505.1	581.9	640.5	870.1	797.2	964.3	5216.6	5701.2	6871.3	6534.8
75°	404.6	393.5	459.2	563.8	653.9	622.3	609.7	3167.7	3696.6	5314.0	5717.0
77.5°	320.6	305.6	365.8	439.4	588.2	469.4	444.1	1364.2	1888.3	3392.5	4277.6
80°	241.5	228.1	277.9	347.6	452.0	353.9	287.4	556.6	711.8	1718.8	2151.1
82.5°	171.8	159.9	193.9	254.9	304.0	317.4	176.5	311.9	350.8	662.7	480.6
85°	110.1	102.9	129.9	159.9	193.2	204.3	107.6	163.1	179.0	273.2	200.3
87.5°	60.2	49.1	69.7	74.4	89.5	81.6	51.5	59.3	64.2	99.0	84.7
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°	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6
2.5°	1688.0	1690.3	1698.2	1700.6	1706.1	1713.3	1718.0	1722.8	1722.8	1727.5	1727.5
5°	1710.9	1716.5	1733.1	1741.8	1756.0	1770.3	1779.0	1789.2	1795.6	1798.8	1800.4
7.5°	1755.2	1763.9	1787.7	1802.8	1827.3	1847.0	1860.6	1874.8	1878.0	1886.6	1883.5
10°	1815.4	1825.7	1852.6	1881.1	1910.4	1935.0	1947.6	1958.0	1961.8	1963.5	1959.5
12.5°	1884.3	1899.3	1934.2	1969.0	1999.9	2021.3	2024.4	2022.0	2010.9	2001.4	2001.4
15°	1969.0	1982.5	2021.3	2059.2	2089.4	2093.3	2073.5	2060.9	2047.3	2045.0	2045.0
17.5°	2070.3	2077.5	2113.1	2150.3	2152.7	2139.2	2110.0	2098.1	2085.4	2076.6	2077.5
20°	2188.3	2185.9	2211.2	2227.1	2210.5	2169.3	2124.9	2105.1	2092.5	2082.2	2083.0
22.5°	2329.2	2311.1	2307.9	2303.9	2259.6	2173.3	2113.1	2087.7	2067.9	2053.7	2058.5
25°	2534.3	2464.6	2416.3	2389.4	2289.6	2151.9	2075.1	2018.8	1981.6	1957.1	1966.7
27.5°	2790.8	2673.6	2551.7	2486.0	2289.6	2108.3	1983.3	1892.3	1831.3	1805.9	1818.6
30°	3035.4	2912.7	2733.0	2602.4	2284.1	2037.1	1835.2	1708.6	1637.2	1611.9	1627.0
32.5°	3244.4	3110.7	2925.4	2729.9	2270.7	1921.5	1651.5	1511.4	1442.5	1412.4	1427.5
35°	3438.5	3295.9	3118.6	2870.0	2235.0	1752.0	1449.7	1342.7	1266.0	1217.7	1233.5
37.5°	3637.1	3467.7	3301.4	2996.7	2170.8	1554.1	1294.5	1203.5	1113.1	1048.3	1065.7
40°	3853.3	3650.6	3497.0	3071.8	2065.6	1365.7	1174.1	1091.0	995.2	926.3	939.7
42.5°	4105.8	3869.9	3714.7	3110.7	1921.5	1231.9	1095.7	1014.2	923.9	867.8	878.8
45°	4369.5	4111.4	3913.4	3109.8	1760.7	1169.3	1070.4	989.6	889.9	831.3	840.8
47.5°	4645.8	4363.9	4085.2	3059.2	1621.4	1178.0	1056.2	936.6	826.6	769.6	777.5
50°	4922.9	4640.3	4251.5	2964.2	1562.1	1159.1	1003.1	862.2	732.4	680.9	684.1
52.5°	5197.7	4933.9	4394.8	2828.8	1501.9	1088.7	935.0	765.6	693.5	657.9	657.9
55°	5473.9	5224.5	4550.8	2631.7	1351.5	1006.2	821.0	729.2	662.7	630.2	627.0
57.5°	5751.1	5560.2	4698.8	2434.6	1162.2	905.0	758.5	684.8	631.8	604.0	599.3
60°	6039.2	5944.2	4851.6	2253.3	975.4	775.1	712.6	649.2	595.4	564.5	562.1
62.5°	6336.1	6367.0	4971.1	2019.7	803.6	695.9	671.4	606.5	554.2	524.9	524.1
65°	6635.3	6774.7	5049.6	1695.9	651.6	620.7	627.0	559.8	506.7	481.3	480.6
67.5°	6861.0	7068.5	5027.4	1283.4	534.4	549.5	571.6	510.7	460.7	441.0	441.8
70°	6886.4	7033.7	4808.9	878.8	447.3	479.8	509.8	462.4	410.9	396.7	397.4
72.5°	6549.1	6558.6	4200.0	574.0	378.4	421.2	445.0	413.3	363.4	349.1	348.4
75°	5664.8	5424.1	3083.7	378.4	316.7	361.8	384.0	361.8	313.5	316.7	305.6
77.5°	4291.9	3841.4	1872.4	269.2	264.4	304.0	334.2	318.3	277.1	311.2	274.0
80°	2211.2	2078.3	835.3	201.1	209.0	243.0	274.7	254.1	219.4	209.0	190.9
82.5°	506.7	589.1	329.3	144.1	151.2	175.0	209.8	190.9	157.5	133.0	131.4
85°	177.3	193.9	145.7	90.3	88.7	109.3	142.5	127.5	106.9	85.5	90.3
87.5°	56.2	73.6	54.6	36.4	38.0	49.1	65.7	60.2	49.9	32.5	34.0
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)