

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: P965785

Luminaire Tested: **NVN-SB4A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16569.1 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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

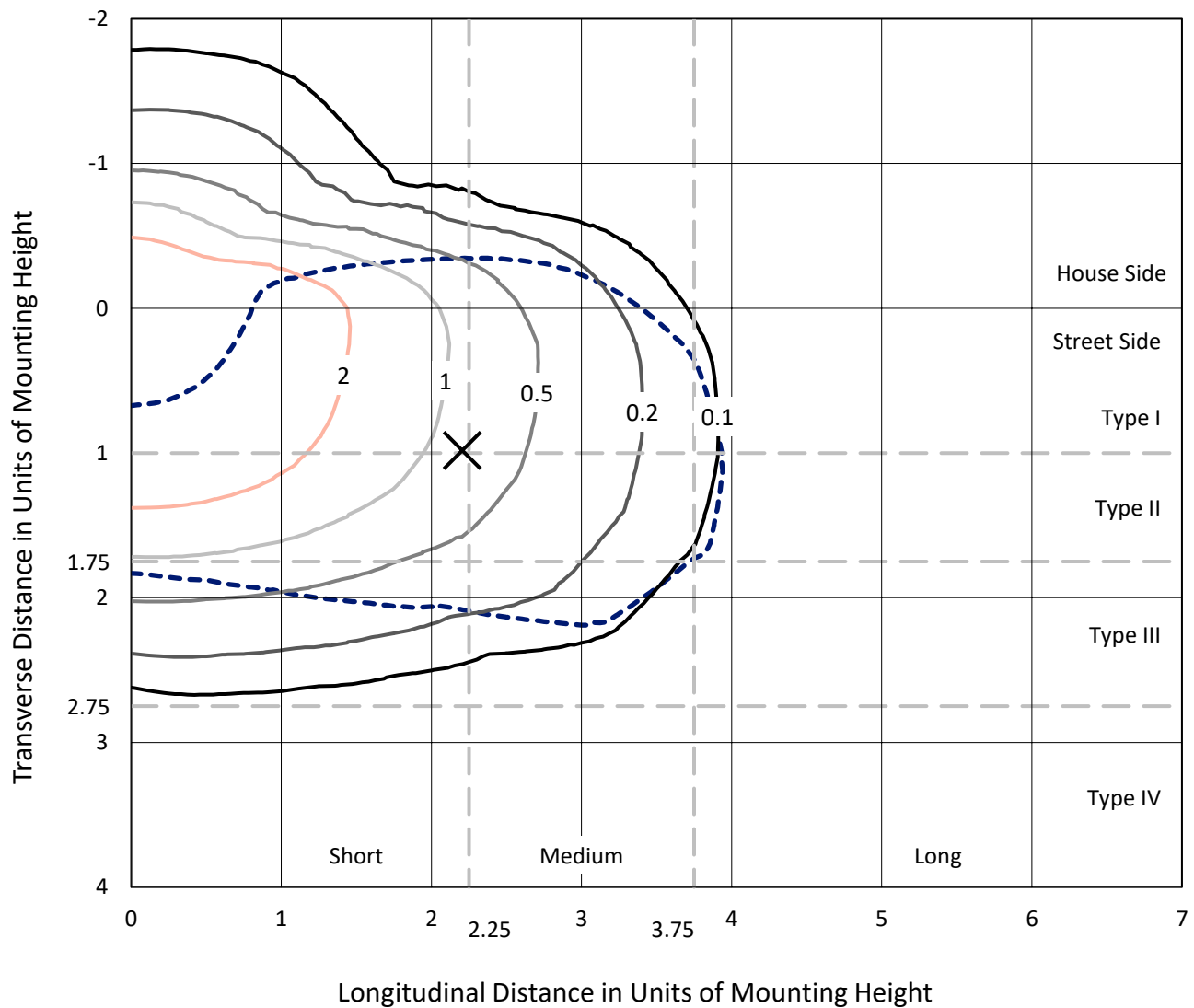


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Iso-Footcandle Lines of Horizontal Illumination

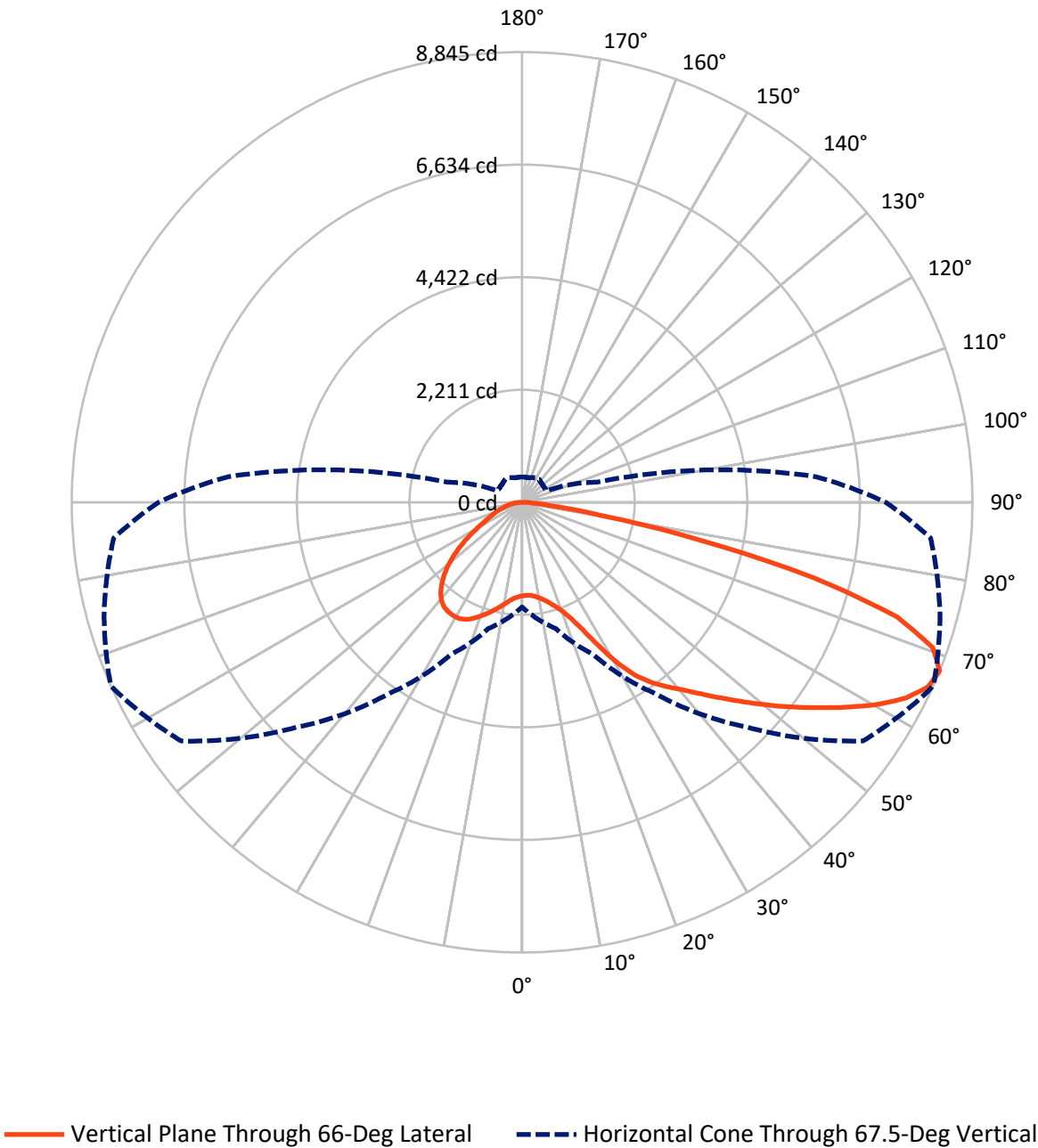
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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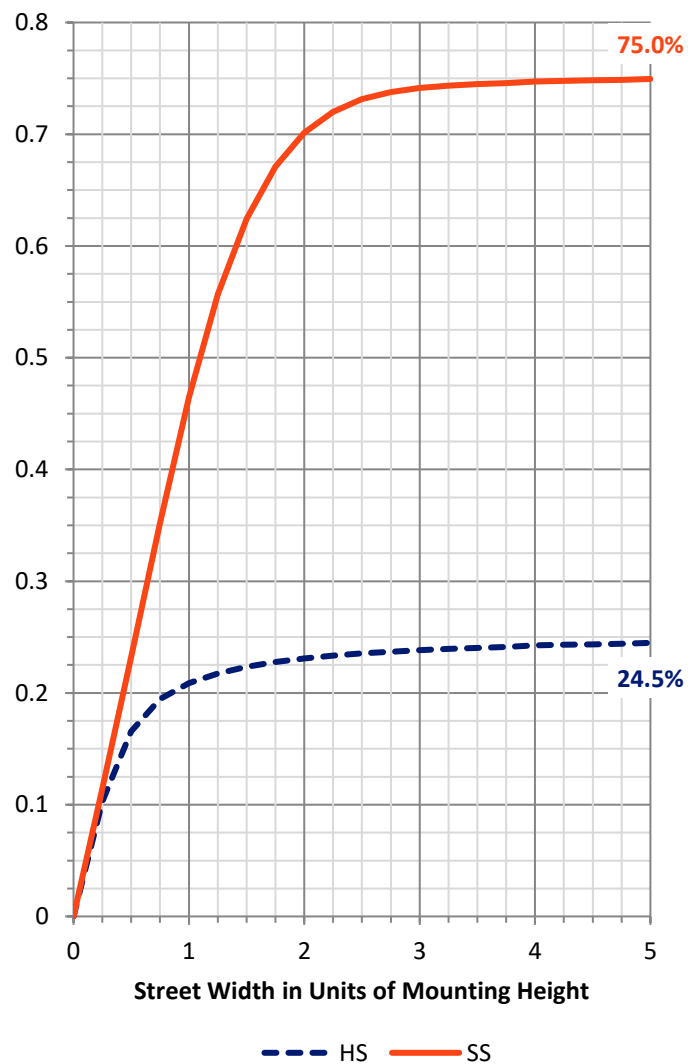
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4119.9	0.0	4119.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12449.3	0.0	12449.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	16569.1	0.0	16569.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.1
10°-20°	602.0	3.6
20°-30°	1160.3	7.0
30°-40°	2034.4	12.3
40°-50°	3024.5	18.3
50°-60°	3833.8	23.1
60°-70°	3751.3	22.6
70°-80°	1789.4	10.8
80°-90°	191.2	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°	16569.1	100.0
0°-180°	16569.1	100.0

Coefficient of Utilization



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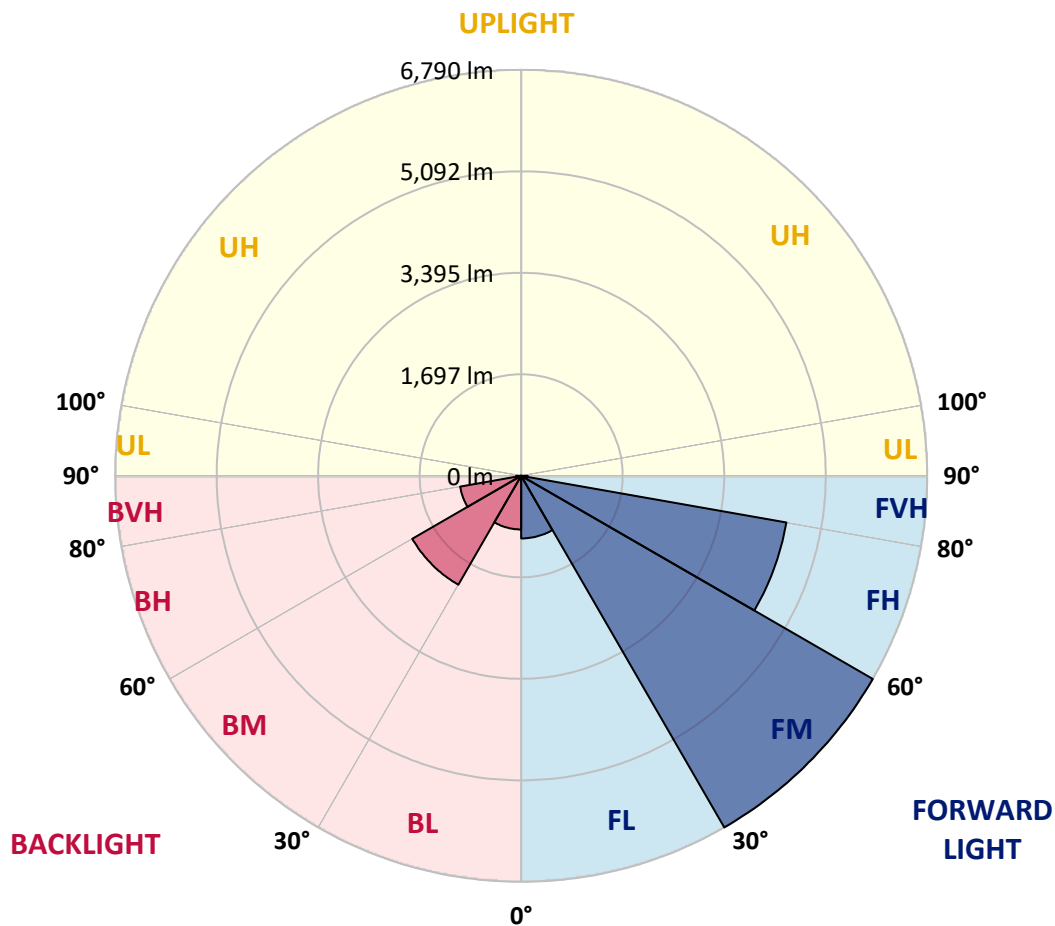
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1047.0	6.3			
FM	(30°-60°)	6789.9	41.0			
FH	(60°-80°)	4503.9	27.2			G2/5000
FVH	(80°-90°)	108.4	0.7			G2/225
BL	(0°-30°)	897.5	5.4	B2/1000		
BM	(30°-60°)	2102.8	12.7	B2/2500		
BH	(60°-80°)	1036.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	82.8	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1818.6	1829.0	1826.4	1822.0	1821.2	1823.0	1825.5	1828.2	1827.3	1831.7	1838.6
5°	1813.3	1823.8	1823.0	1823.0	1826.4	1833.4	1837.7	1842.1	1837.7	1843.0	1852.6
7.5°	1816.8	1824.7	1828.2	1831.7	1840.4	1853.4	1863.9	1873.4	1868.2	1874.3	1886.5
10°	1861.2	1867.3	1870.8	1870.8	1876.9	1891.7	1902.2	1919.5	1915.2	1924.7	1940.4
12.5°	1942.2	1948.3	1948.3	1944.8	1949.1	1958.8	1962.3	1981.3	1973.5	1989.2	2004.9
15°	2041.5	2053.6	2044.1	2038.0	2039.7	2049.3	2048.4	2063.2	2055.3	2068.4	2082.4
17.5°	2151.2	2166.8	2151.2	2150.2	2146.8	2157.2	2158.1	2171.2	2157.2	2166.8	2176.4
20°	2280.8	2302.6	2289.5	2294.0	2286.1	2290.5	2294.8	2313.9	2292.2	2299.2	2296.5
22.5°	2463.7	2489.8	2475.9	2492.4	2487.2	2483.7	2482.9	2516.8	2482.9	2485.4	2460.2
25°	2730.1	2761.4	2737.1	2759.6	2759.6	2771.0	2784.0	2827.6	2771.0	2754.4	2689.1
27.5°	3123.6	3154.8	3107.0	3120.9	3116.6	3144.4	3130.6	3238.5	3177.5	3150.5	3019.0
30°	3597.1	3652.8	3562.3	3558.8	3554.5	3598.9	3618.9	3690.3	3628.5	3601.4	3443.1
32.5°	4109.0	4167.3	4059.4	4028.0	4011.5	4038.5	4022.0	4079.4	4036.8	3994.9	3799.1
35°	4650.5	4707.9	4605.2	4544.2	4478.1	4421.5	4362.3	4377.2	4337.1	4273.5	4070.7
37.5°	5162.4	5267.7	5158.9	5093.6	4971.8	4861.2	4695.7	4627.0	4589.5	4531.2	4326.6
40°	5683.8	5743.9	5661.2	5605.5	5473.2	5300.0	5035.3	4889.9	4839.4	4782.9	4609.5
42.5°	6067.8	6125.2	6080.8	6042.5	5939.0	5737.8	5395.7	5213.8	5140.6	5077.0	4929.9
45°	6372.4	6415.1	6387.3	6401.1	6356.7	6161.8	5769.1	5561.0	5485.4	5407.9	5292.1
47.5°	6495.2	6540.4	6584.8	6667.5	6743.3	6599.7	6170.5	5937.2	5857.1	5777.8	5663.8
50°	6481.3	6527.4	6656.2	6832.1	7067.2	7019.3	6593.5	6337.6	6263.6	6173.1	6067.8
52.5°	6369.9	6422.0	6587.5	6880.0	7254.3	7333.6	7024.5	6751.2	6681.5	6573.5	6468.2
55°	6077.3	6108.7	6356.7	6771.2	7298.7	7552.9	7446.7	7191.6	7122.0	6971.3	6856.4
57.5°	5535.0	5580.2	5941.5	6477.8	7187.3	7701.7	7817.6	7654.8	7587.8	7371.0	7250.8
60°	4827.2	4899.5	5313.0	5985.1	6903.5	7700.9	8154.5	8110.1	8054.3	7764.5	7639.1
62.5°	4026.3	4109.8	4507.7	5288.6	6407.3	7482.4	8365.1	8491.4	8462.6	8127.4	7967.3
65°	3092.2	3149.6	3545.8	4387.6	5635.0	7013.2	8389.5	8751.7	8756.9	8403.5	8138.8
67.5°	2058.8	2224.2	2568.1	3292.4	4600.9	6246.2	8175.4	8794.3	8844.8	8498.4	8052.6
70°	1004.6	1222.2	1559.1	2139.8	3292.4	5070.1	7615.5	8444.4	8556.7	8221.5	7539.0
72.5°	417.0	487.5	671.2	1056.0	1890.0	3421.2	6490.8	7495.4	7703.5	7284.8	6338.5
75°	281.2	304.7	383.9	541.5	861.0	1687.2	4681.0	5588.9	5924.1	5501.9	4497.3
77.5°	216.8	231.5	279.4	378.7	511.9	638.2	2505.4	3368.2	3541.4	3278.5	2340.1
80°	170.7	181.9	208.9	275.9	363.1	341.2	854.0	1526.1	1626.2	1364.2	752.1
82.5°	148.0	152.3	149.8	187.2	241.2	199.4	280.3	563.2	621.6	450.9	245.5
85°	107.1	119.3	124.5	115.8	127.9	101.0	114.9	199.4	219.4	195.9	138.4
87.5°	43.6	64.4	79.2	74.8	47.0	28.7	35.7	58.3	67.0	73.1	45.3
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°	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7	1837.7
2.5°	1839.5	1845.6	1849.9	1855.1	1858.6	1863.9	1874.3	1880.4	1881.3	1885.6	1884.8
5°	1856.0	1864.7	1874.3	1888.3	1903.9	1917.0	1936.9	1950.9	1956.1	1960.5	1959.6
7.5°	1891.7	1903.9	1921.3	1945.7	1968.3	1985.7	2010.1	2026.6	2043.2	2049.3	2050.1
10°	1944.8	1962.3	1987.5	2020.6	2045.0	2067.5	2092.8	2106.8	2123.3	2130.3	2133.7
12.5°	2010.9	2029.3	2062.3	2108.5	2131.1	2146.8	2155.5	2152.0	2155.5	2161.6	2163.4
15°	2086.7	2106.8	2144.2	2193.8	2209.5	2195.5	2176.4	2159.0	2156.4	2158.1	2164.2
17.5°	2176.4	2191.1	2234.7	2276.5	2265.1	2207.7	2165.9	2138.0	2124.1	2119.8	2125.8
20°	2301.7	2301.7	2337.4	2363.5	2287.8	2190.3	2125.0	2079.7	2051.0	2038.8	2036.3
22.5°	2454.1	2440.1	2462.8	2444.5	2283.5	2141.5	2051.0	1972.7	1929.2	1911.7	1909.2
25°	2647.4	2630.8	2624.7	2511.6	2252.1	2064.0	1917.0	1822.0	1783.8	1774.2	1775.9
27.5°	2939.0	2897.2	2817.9	2548.1	2194.6	1942.2	1760.2	1672.3	1650.6	1651.5	1654.0
30°	3327.3	3243.7	3049.6	2554.2	2100.6	1769.9	1600.0	1537.4	1526.9	1531.4	1546.1
32.5°	3686.8	3607.6	3286.4	2526.3	1956.1	1600.9	1456.4	1414.6	1399.0	1404.2	1411.1
35°	3968.8	3947.1	3505.7	2487.2	1778.6	1442.5	1327.6	1291.9	1261.5	1254.5	1259.7
37.5°	4235.2	4226.5	3670.2	2432.3	1602.7	1330.2	1224.0	1177.0	1132.6	1108.2	1109.0
40°	4527.7	4519.0	3778.2	2347.9	1446.9	1232.7	1130.9	1069.1	1014.2	969.8	974.2
42.5°	4856.8	4805.4	3829.6	2226.9	1314.6	1150.0	1055.1	971.5	899.2	858.3	861.0
45°	5216.3	5100.6	3828.7	2072.8	1203.1	1074.3	974.2	855.8	788.7	750.4	748.7
47.5°	5597.6	5382.6	3781.6	1902.2	1095.1	990.7	848.8	758.3	713.8	690.3	685.1
50°	5991.1	5646.4	3701.6	1706.3	984.6	895.7	770.4	708.6	674.7	652.9	645.0
52.5°	6361.2	5885.8	3604.9	1484.3	872.3	803.5	735.6	687.8	652.0	627.7	617.3
55°	6705.0	6092.1	3468.3	1257.1	780.8	741.7	719.0	679.1	638.2	609.4	598.1
57.5°	7010.6	6226.2	3232.3	1043.8	715.6	699.0	701.7	664.2	617.3	592.9	577.2
60°	7264.8	6324.6	2883.2	846.1	662.5	657.2	674.7	636.4	581.5	553.7	541.5
62.5°	7417.1	6322.8	2455.0	693.0	617.3	619.0	639.0	601.6	545.8	519.7	511.9
65°	7404.1	6167.8	1984.8	592.9	573.7	575.4	601.6	563.2	516.2	500.6	499.7
67.5°	7142.0	5790.0	1522.6	527.6	525.8	533.6	564.2	537.1	497.9	496.2	498.9
70°	6432.5	5005.7	1096.9	475.3	476.2	487.5	527.6	520.6	488.4	491.9	491.0
72.5°	5158.0	3816.5	736.5	420.5	421.4	439.6	492.7	507.6	478.8	524.9	531.9
75°	3435.2	2380.0	473.6	362.1	363.1	386.5	462.3	482.3	452.6	523.2	527.6
77.5°	1650.6	1069.9	343.0	304.7	304.7	326.5	399.5	431.8	385.6	406.5	372.6
80°	570.2	402.2	269.9	245.5	240.3	255.1	336.9	374.3	332.5	306.5	287.3
82.5°	224.6	208.9	216.8	190.6	173.2	182.9	262.0	309.0	244.7	221.1	220.3
85°	128.8	135.8	153.2	126.3	100.1	112.3	192.4	222.0	184.6	162.8	166.3
87.5°	34.8	47.9	70.5	65.3	45.3	47.9	91.4	122.8	106.2	81.8	84.5
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)