

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: P964173

Luminaire Tested: **NVN-SB3B-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964173  
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-SB3B-827-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

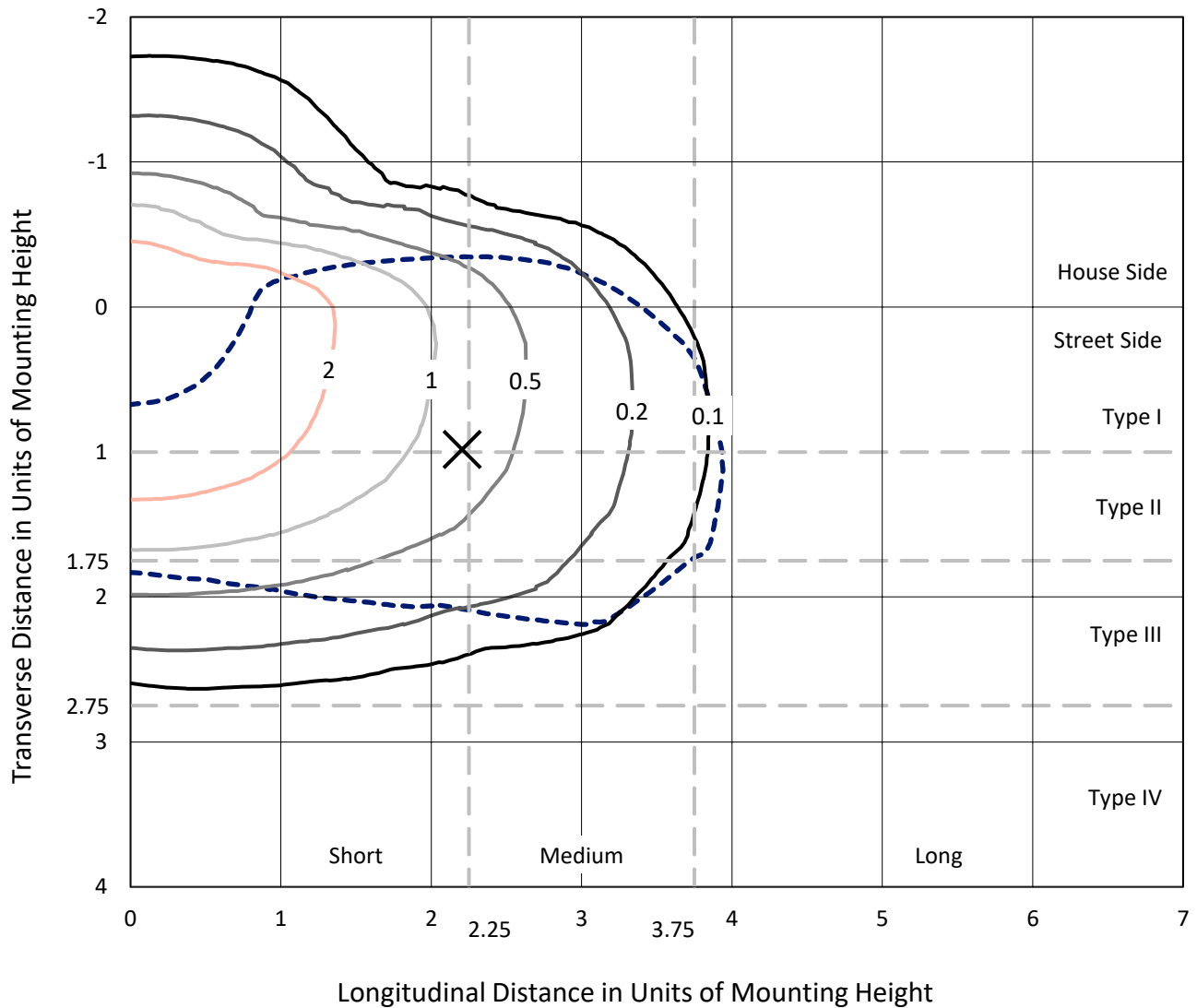
Lumens per Lamp: N/A  
Luminaire Lumens: 15068.5 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

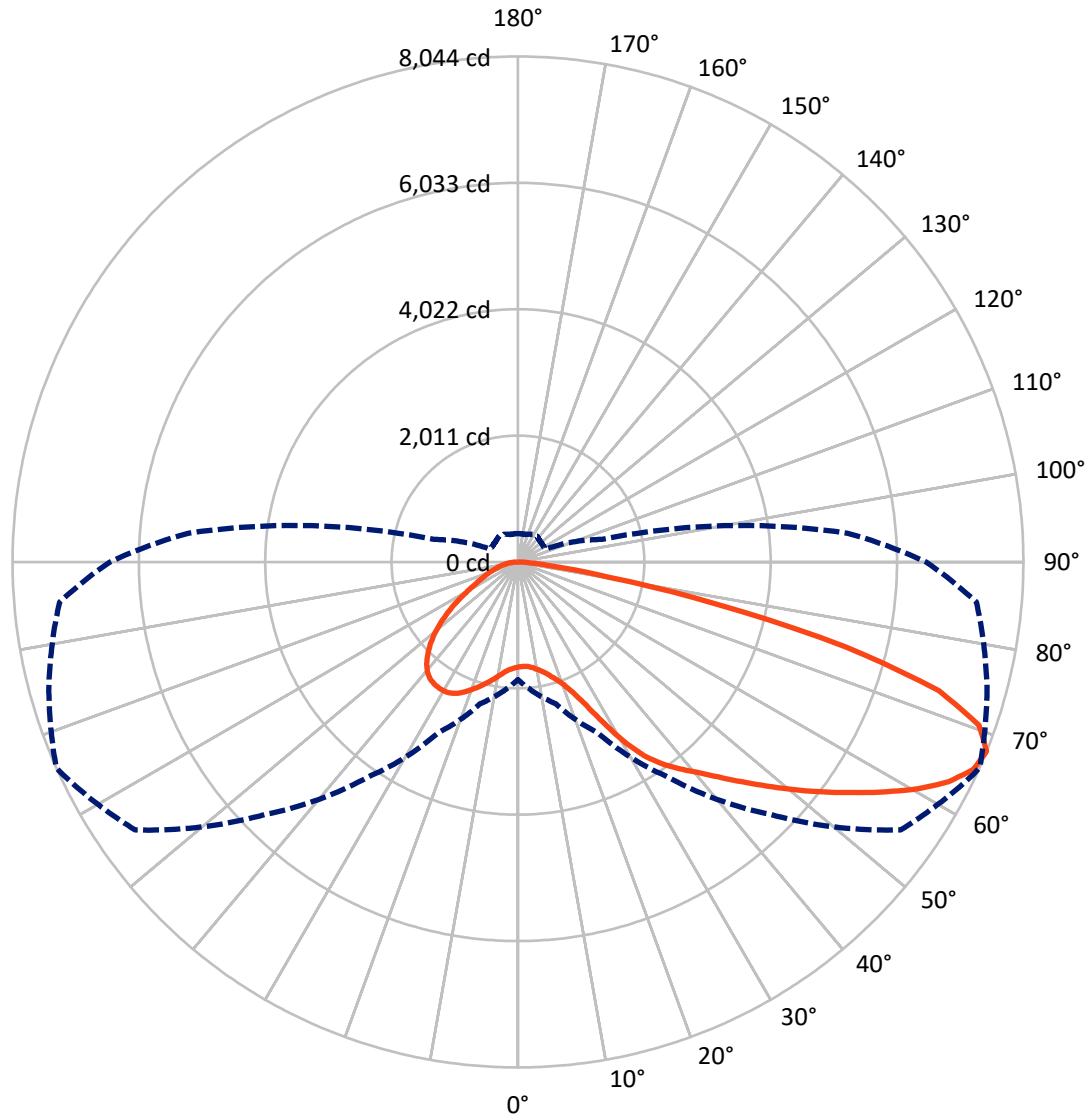
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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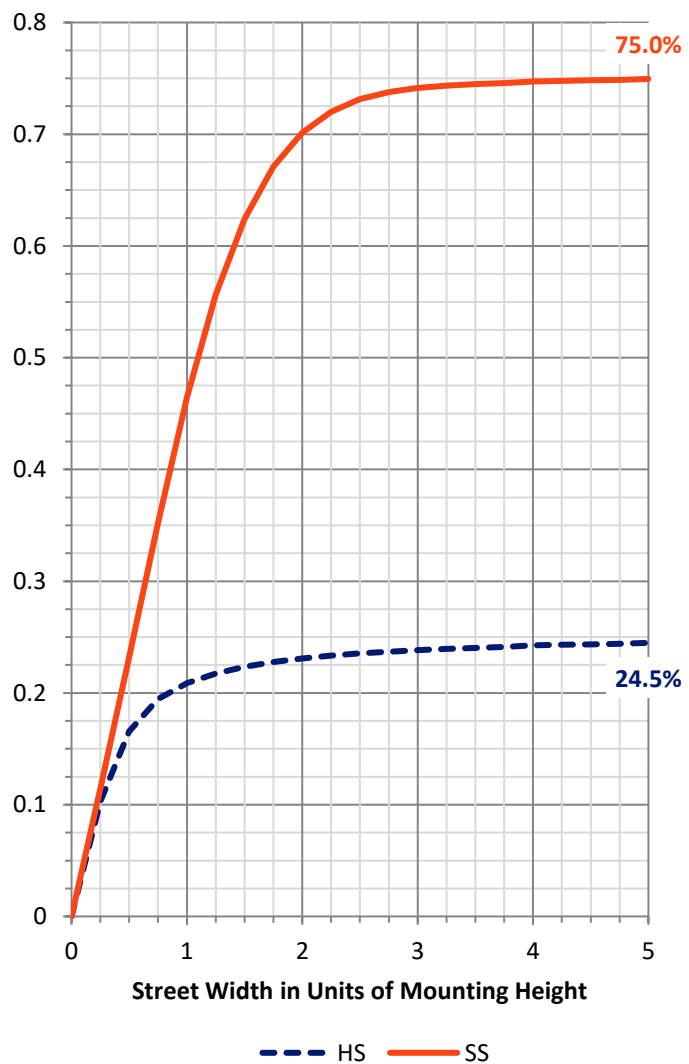
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3746.7	0.0	3746.7
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	11321.8	0.0	11321.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	15068.5	0.0	15068.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.7	1.1
10°-20°	547.5	3.6
20°-30°	1055.2	7.0
30°-40°	1850.2	12.3
40°-50°	2750.6	18.3
50°-60°	3486.6	23.1
60°-70°	3411.6	22.6
70°-80°	1627.3	10.8
80°-90°	173.9	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°	15068.5	100.0
0°-180°	15068.5	100.0

**Coefficient of Utilization**



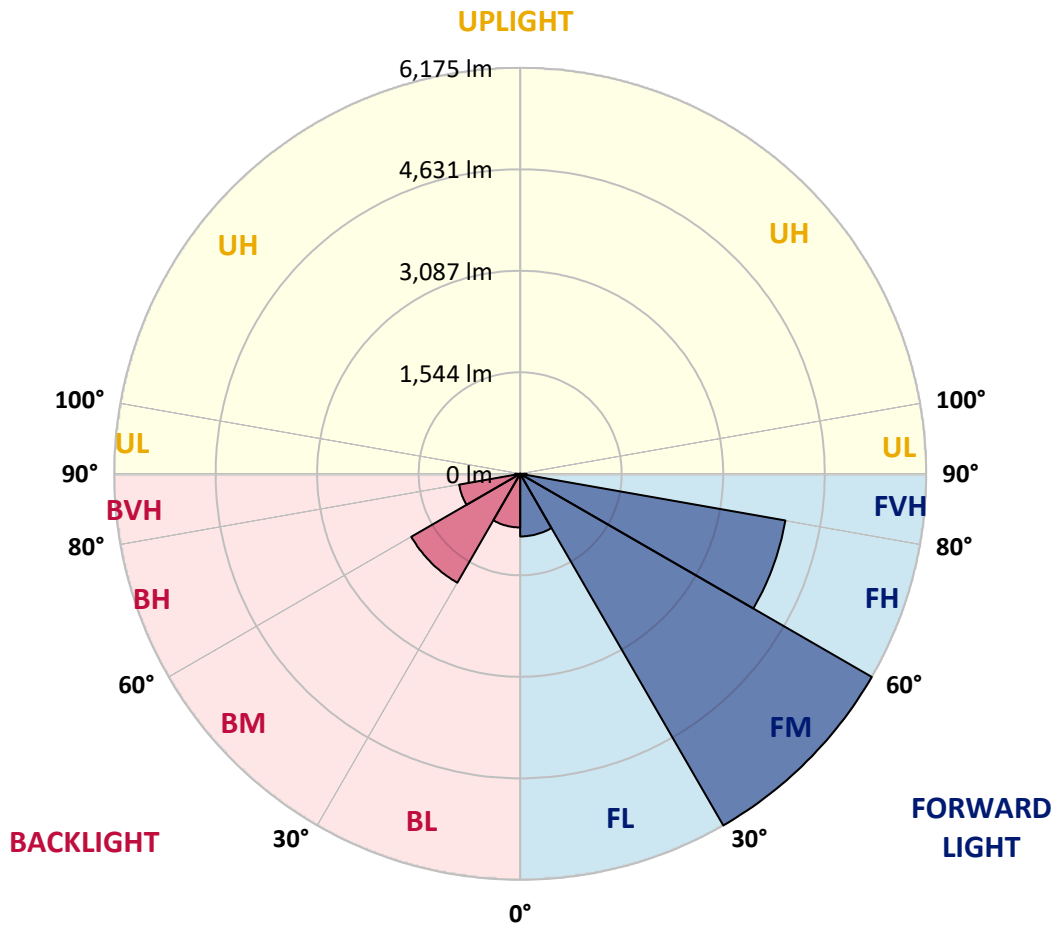
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.2	6.3			
FM (30°-60°)	6175.0	41.0			
FH (60°-80°)	4096.0	27.2			G2/5000
FVH (80°-90°)	98.6	0.7			G1/100
BL (0°-30°)	816.2	5.4	B2/1000		
BM (30°-60°)	1912.4	12.7	B2/2500		
BH (60°-80°)	942.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	75.3	0.5			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°	66°	75°	85°
0°	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3
2.5°	1653.8	1663.4	1661.0	1657.0	1656.3	1657.8	1660.2	1662.6	1661.8	1665.7	1672.1
5°	1649.1	1658.7	1657.8	1657.8	1661.0	1667.4	1671.3	1675.3	1671.3	1676.1	1684.8
7.5°	1652.3	1659.4	1662.6	1665.7	1673.7	1685.5	1695.0	1703.8	1699.0	1704.6	1715.6
10°	1692.7	1698.2	1701.4	1701.4	1706.9	1720.4	1729.9	1745.7	1741.8	1750.5	1764.7
12.5°	1766.3	1771.8	1771.8	1768.6	1772.6	1781.3	1784.5	1802.0	1794.8	1809.0	1823.3
15°	1856.6	1867.7	1858.9	1853.4	1854.9	1863.7	1862.9	1876.4	1869.2	1881.1	1893.8
17.5°	1956.3	1970.6	1956.3	1955.5	1952.3	1961.8	1962.7	1974.6	1961.8	1970.6	1979.3
20°	2074.3	2094.1	2082.2	2086.2	2079.0	2083.0	2086.9	2104.3	2084.5	2090.9	2088.5
22.5°	2240.5	2264.3	2251.6	2266.7	2261.9	2258.8	2258.0	2288.8	2258.0	2260.3	2237.4
25°	2482.8	2511.4	2489.1	2509.7	2509.7	2520.0	2531.9	2571.5	2520.0	2505.0	2445.5
27.5°	2840.7	2869.2	2825.6	2838.3	2834.3	2859.6	2846.9	2945.1	2889.8	2865.2	2745.7
30°	3271.4	3322.0	3239.7	3236.5	3232.5	3272.9	3291.2	3356.1	3299.9	3275.3	3131.2
32.5°	3736.8	3789.9	3691.7	3663.2	3648.2	3672.8	3657.7	3710.0	3671.1	3633.1	3455.1
35°	4229.4	4281.5	4188.2	4132.7	4072.5	4021.1	3967.3	3980.7	3944.3	3886.5	3702.0
37.5°	4694.8	4790.6	4691.6	4632.3	4521.5	4420.9	4270.5	4207.9	4173.9	4120.8	3934.8
40°	5169.1	5223.7	5148.5	5097.8	4977.5	4820.0	4579.3	4447.1	4401.1	4349.7	4192.1
42.5°	5518.2	5570.5	5530.1	5495.2	5401.0	5218.2	4907.0	4741.5	4675.0	4617.2	4483.5
45°	5795.3	5834.1	5808.8	5821.5	5781.1	5603.7	5246.7	5057.5	4988.6	4918.1	4812.8
47.5°	5907.0	5948.1	5988.5	6063.7	6132.6	6002.0	5611.7	5399.5	5326.6	5254.6	5150.8
50°	5894.3	5936.3	6053.4	6213.3	6427.1	6383.6	5996.5	5763.7	5696.3	5614.0	5518.2
52.5°	5792.9	5840.4	5990.8	6256.9	6597.3	6669.4	6388.3	6139.7	6076.4	5978.2	5882.4
55°	5526.9	5555.4	5781.1	6157.9	6637.7	6868.8	6772.3	6540.3	6477.0	6340.0	6235.5
57.5°	5033.7	5074.9	5403.4	5891.1	6536.3	7004.2	7109.5	6961.5	6900.5	6703.4	6594.1
60°	4390.1	4455.8	4831.8	5443.0	6278.2	7003.4	7416.0	7375.6	7324.9	7061.2	6947.2
62.5°	3661.6	3737.7	4099.5	4809.6	5827.0	6804.8	7607.6	7722.4	7696.2	7391.4	7245.7
65°	2812.2	2864.4	3224.6	3990.2	5124.7	6378.0	7629.7	7959.0	7963.8	7642.4	7401.7
67.5°	1872.4	2022.8	2335.6	2994.2	4184.2	5680.5	7434.9	7997.9	8043.8	7728.7	7323.3
70°	913.6	1111.5	1418.0	1946.1	2994.2	4611.0	6925.9	7679.6	7781.7	7476.9	6856.2
72.5°	379.2	443.3	610.4	960.3	1718.8	3111.4	5903.0	6816.7	7005.9	6625.0	5764.4
75°	255.7	277.1	349.1	492.4	783.0	1534.3	4257.0	5082.8	5387.6	5003.6	4090.0
77.5°	197.1	210.6	254.1	344.4	465.6	580.4	2278.6	3063.1	3220.7	2981.6	2128.1
80°	155.2	165.4	190.0	251.0	330.2	310.4	776.6	1387.8	1478.9	1240.6	684.1
82.5°	134.6	138.6	136.2	170.3	219.4	181.3	254.9	512.2	565.3	410.1	223.2
85°	97.4	108.4	113.3	105.3	116.3	91.8	104.6	181.3	199.5	178.1	125.9
87.5°	39.6	58.6	72.1	68.1	42.7	26.1	32.5	53.1	61.0	66.5	41.2
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°	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3	1671.3
2.5°	1672.9	1678.4	1682.3	1687.2	1690.3	1695.0	1704.6	1710.1	1710.9	1714.8	1714.0
5°	1688.0	1695.9	1704.6	1717.2	1731.4	1743.3	1761.6	1774.2	1779.0	1782.9	1782.2
7.5°	1720.4	1731.4	1747.3	1769.5	1790.1	1805.8	1828.1	1843.1	1858.1	1863.7	1864.5
10°	1768.6	1784.5	1807.5	1837.5	1859.8	1880.3	1903.2	1915.9	1931.0	1937.4	1940.5
12.5°	1828.8	1845.5	1875.5	1917.6	1938.1	1952.3	1960.3	1957.1	1960.3	1965.8	1967.4
15°	1897.7	1915.9	1950.0	1995.1	2009.3	1996.7	1979.3	1963.5	1961.0	1962.7	1968.2
17.5°	1979.3	1992.7	2032.3	2070.3	2060.0	2007.8	1969.7	1944.4	1931.8	1927.8	1933.4
20°	2093.3	2093.3	2125.7	2149.5	2080.6	1992.0	1932.5	1891.4	1865.3	1854.2	1851.8
22.5°	2231.8	2219.1	2239.7	2223.1	2076.6	1947.6	1865.3	1794.1	1754.4	1738.6	1736.2
25°	2407.6	2392.6	2387.0	2284.1	2048.2	1877.2	1743.3	1657.0	1622.2	1613.6	1615.1
27.5°	2672.8	2634.8	2562.8	2317.3	1995.9	1766.3	1600.8	1520.9	1501.1	1501.8	1504.3
30°	3025.9	2950.0	2773.3	2322.9	1910.4	1609.6	1455.2	1398.2	1388.7	1392.7	1406.1
32.5°	3352.9	3280.8	2988.7	2297.5	1779.0	1455.9	1324.5	1286.5	1272.2	1277.0	1283.4
35°	3609.4	3589.7	3188.3	2261.9	1617.4	1311.9	1207.3	1174.9	1147.2	1140.8	1145.6
37.5°	3851.6	3843.7	3337.8	2212.1	1457.6	1209.7	1113.1	1070.4	1030.0	1007.9	1008.6
40°	4117.6	4109.7	3436.0	2135.3	1315.8	1121.0	1028.4	972.2	922.3	882.0	885.9
42.5°	4416.9	4370.2	3482.7	2025.2	1195.5	1045.8	959.5	883.6	817.8	780.6	783.0
45°	4743.9	4638.6	3481.9	1885.1	1094.2	976.9	885.9	778.3	717.3	682.4	680.9
47.5°	5090.7	4895.1	3439.2	1729.9	996.0	901.0	771.9	689.6	649.2	627.8	623.1
50°	5448.6	5135.0	3366.3	1551.7	895.4	814.7	700.7	644.4	613.6	593.8	586.6
52.5°	5785.0	5352.8	3278.5	1349.8	793.2	730.7	669.0	625.5	593.0	570.8	561.3
55°	6097.7	5540.4	3154.1	1143.2	710.1	674.6	653.9	617.6	580.4	554.2	543.9
57.5°	6375.6	5662.3	2939.6	949.3	650.8	635.7	638.2	604.0	561.3	539.2	524.9
60°	6606.8	5751.8	2622.2	769.6	602.5	597.8	613.6	578.7	528.9	503.5	492.4
62.5°	6745.3	5750.1	2232.7	630.2	561.3	562.9	581.1	547.0	496.4	472.6	465.6
65°	6733.5	5609.2	1805.1	539.2	521.7	523.4	547.0	512.2	469.4	455.2	454.5
67.5°	6495.2	5265.6	1384.7	479.8	478.2	485.3	513.0	488.5	452.8	451.3	453.7
70°	5850.0	4552.3	997.5	432.2	433.1	443.3	479.8	473.4	444.1	447.3	446.5
72.5°	4690.9	3470.9	669.7	382.4	383.1	399.9	448.1	461.6	435.4	477.4	483.7
75°	3124.1	2164.5	430.7	329.3	330.2	351.5	420.4	438.6	411.6	475.8	479.8
77.5°	1501.1	973.0	311.9	277.1	277.1	296.8	363.4	392.7	350.8	369.7	338.9
80°	518.5	365.7	245.4	223.2	218.5	232.0	306.4	340.4	302.5	278.7	261.3
82.5°	204.3	190.0	197.1	173.4	157.5	166.3	238.3	281.1	222.4	201.1	200.3
85°	117.2	123.5	139.3	114.8	91.0	102.1	175.0	201.9	167.8	148.0	151.2
87.5°	31.7	43.6	64.2	59.3	41.2	43.6	83.1	111.6	96.6	74.4	76.8
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)