

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: P960992

Luminaire Tested: **NVN-SB1D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9017.9 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

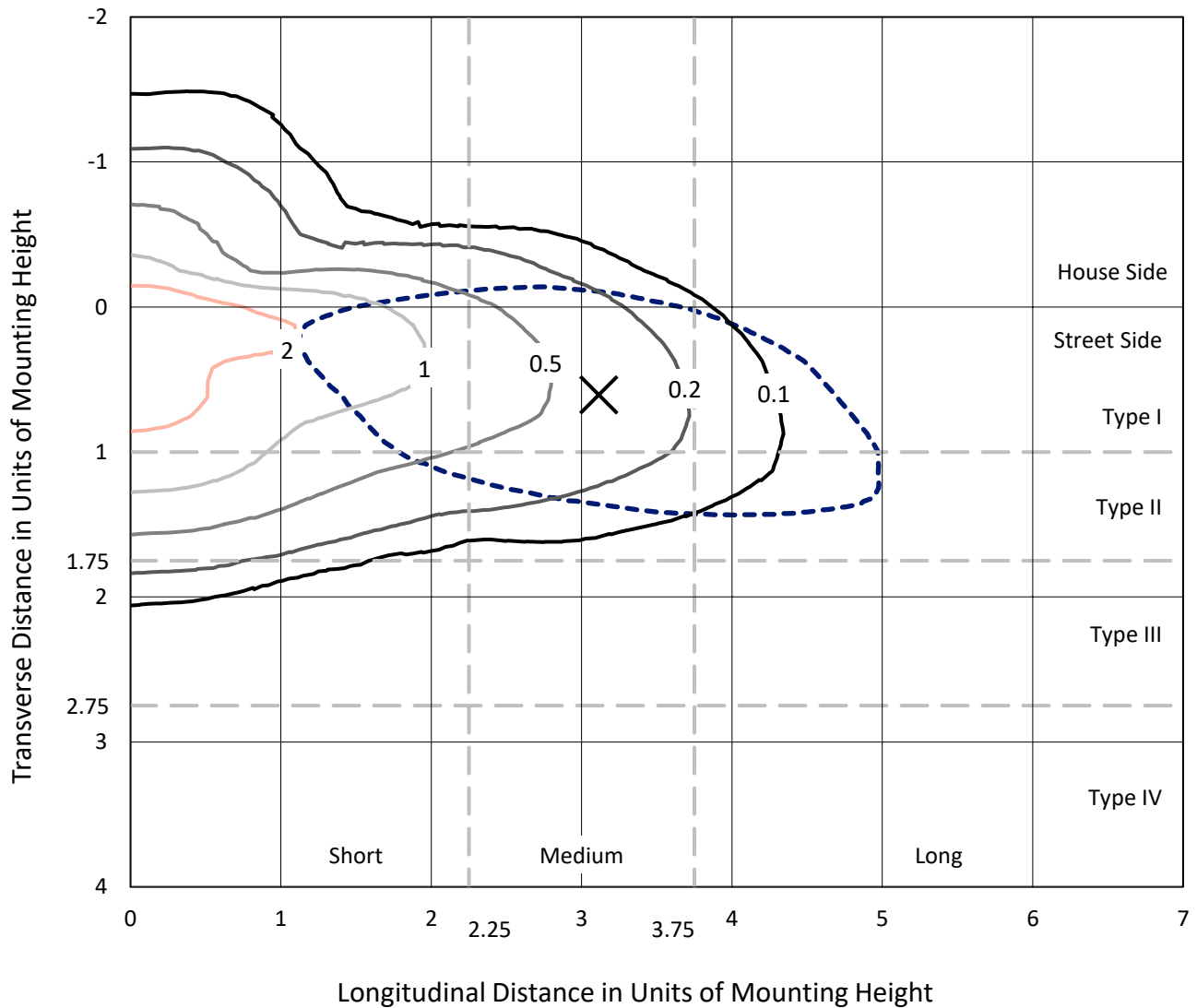
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

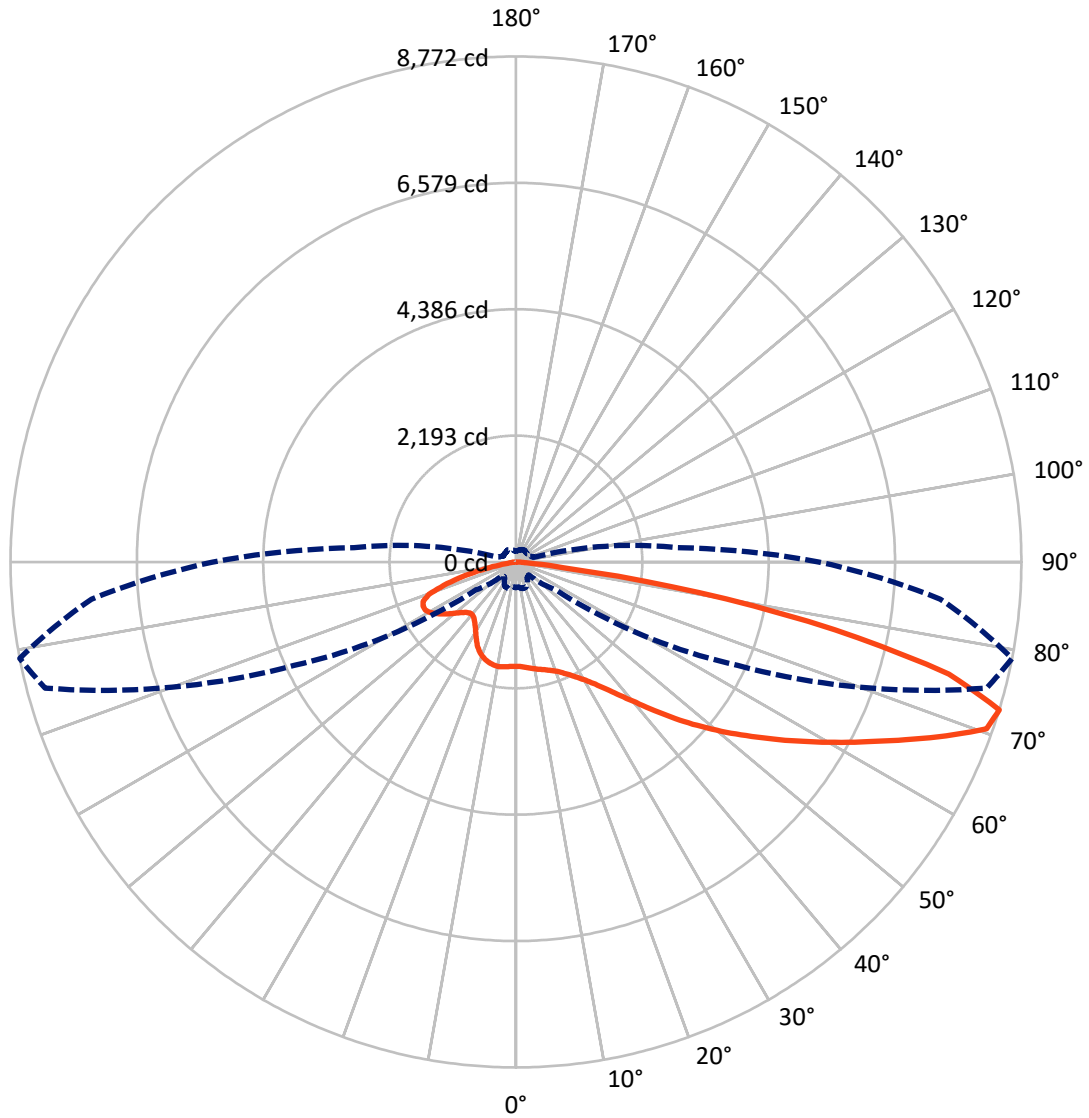
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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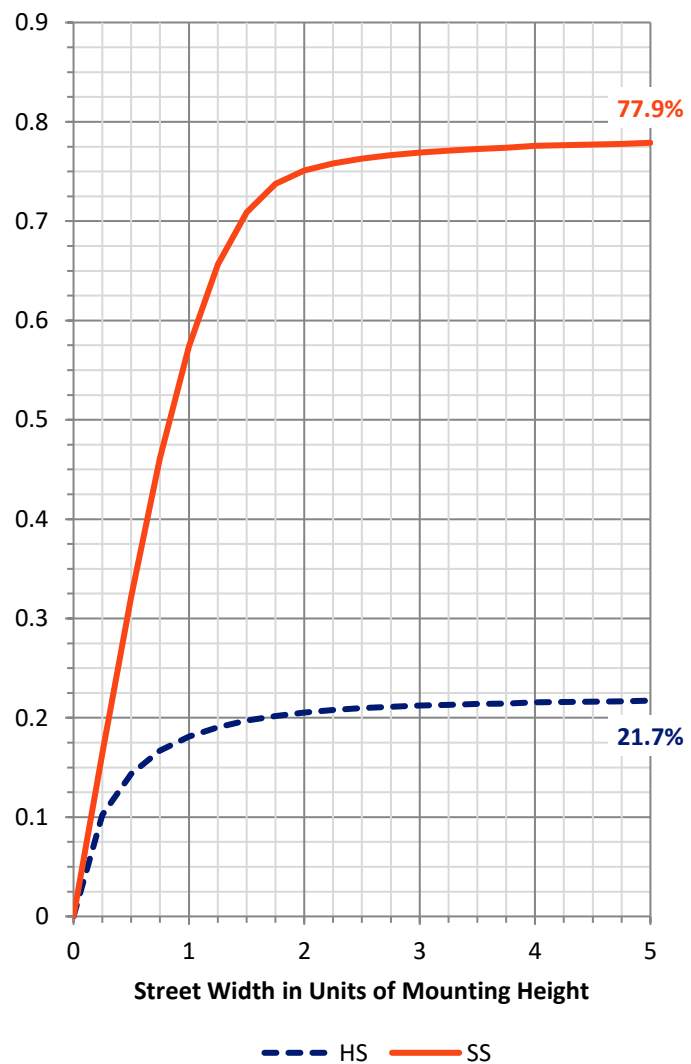
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1984.4	0.0	1984.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7033.5	0.0	7033.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	9017.9	0.0	9017.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.8
10°-20°	429.6	4.8
20°-30°	693.2	7.7
30°-40°	1040.4	11.5
40°-50°	1475.9	16.4
50°-60°	1863.9	20.7
60°-70°	1893.0	21.0
70°-80°	1290.2	14.3
80°-90°	167.4	1.9
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°	9017.9	100.0
0°-180°	9017.9	100.0

Coefficient of Utilization



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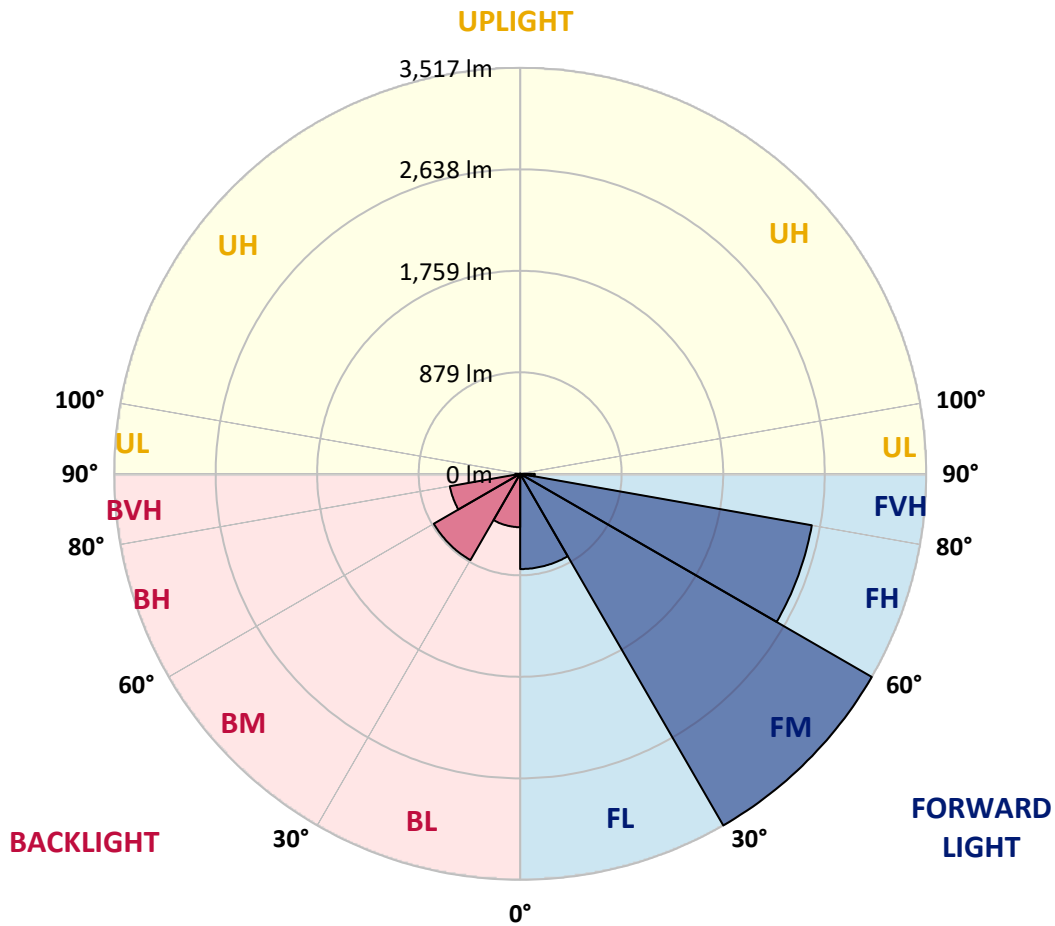
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.9	9.1			
FM (30°-60°)	3517.2	39.0			
FH (60°-80°)	2565.3	28.4			G2/5000
FVH (80°-90°)	126.1	1.4			G2/225
BL (0°-30°)	462.2	5.1	B1/500		
BM (30°-60°)	863.0	9.6	B1/1000		
BH (60°-80°)	617.9	6.9	B2/1000		G2/1000
BVH (80°-90°)	41.3	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3
2.5°	1811.2	1802.7	1807.9	1805.9	1808.4	1811.2	1812.2	1813.6	1818.4	1817.9	1817.4
5°	1807.4	1798.8	1805.9	1803.6	1809.7	1816.5	1822.1	1827.5	1835.1	1838.4	1833.6
7.5°	1799.3	1793.5	1800.7	1807.9	1819.4	1829.3	1837.4	1849.4	1860.4	1862.2	1865.6
10°	1752.0	1747.8	1764.4	1783.1	1814.6	1841.7	1859.4	1873.2	1885.2	1887.0	1891.8
12.5°	1702.9	1697.7	1716.3	1741.6	1792.6	1841.7	1878.9	1897.1	1907.6	1913.8	1921.0
15°	1694.8	1690.5	1701.0	1723.0	1765.5	1828.9	1892.4	1925.7	1934.8	1942.0	1944.8
17.5°	1734.0	1725.8	1730.1	1737.8	1762.6	1816.9	1902.8	1958.2	1972.0	1979.6	1979.6
20°	1824.6	1813.1	1806.5	1791.2	1786.9	1818.9	1901.9	1997.2	2015.4	2024.9	2027.3
22.5°	1945.2	1937.7	1923.3	1884.7	1842.7	1842.2	1920.0	2047.3	2081.3	2090.3	2084.5
25°	2091.2	2079.8	2061.7	2009.2	1928.5	1888.5	1950.5	2111.3	2168.0	2170.4	2153.7
27.5°	2259.1	2242.0	2217.2	2148.0	2039.2	1961.0	1997.2	2184.7	2267.7	2266.8	2232.4
30°	2436.1	2418.9	2392.7	2308.7	2171.9	2058.8	2062.1	2263.9	2386.0	2380.8	2322.1
32.5°	2565.4	2552.5	2547.2	2482.3	2324.5	2174.2	2136.5	2351.7	2532.0	2527.2	2445.1
35°	2664.6	2647.9	2654.1	2621.2	2491.0	2303.5	2227.6	2456.1	2709.5	2709.0	2606.9
37.5°	2762.9	2748.1	2753.4	2731.4	2645.0	2467.6	2338.8	2584.0	2929.3	2939.8	2802.5
40°	2852.6	2836.8	2857.8	2837.3	2764.7	2642.1	2465.2	2728.5	3184.1	3204.1	3039.0
42.5°	2906.5	2894.1	2928.8	2929.3	2868.8	2789.5	2604.0	2887.8	3478.8	3523.7	3330.0
45°	2925.0	2920.7	2973.2	2984.2	2960.8	2874.9	2729.0	3061.5	3796.6	3876.7	3661.6
47.5°	2905.1	2896.9	2969.4	3009.9	3028.6	2915.0	2832.5	3249.5	4120.9	4238.3	4023.1
50°	2803.9	2788.1	2895.9	2981.3	3047.6	2941.2	2936.9	3466.4	4489.7	4617.9	4386.6
52.5°	2622.2	2610.3	2732.9	2881.2	3005.7	2954.2	3054.3	3703.5	4839.7	5005.8	4759.2
55°	2389.9	2374.1	2509.1	2702.7	2901.2	2949.8	3171.7	3968.8	5252.9	5421.2	5144.2
57.5°	2021.6	1990.1	2160.9	2389.9	2730.9	2944.6	3293.7	4232.5	5672.7	5874.4	5554.8
60°	1484.5	1437.8	1647.2	1918.6	2398.0	2893.6	3445.0	4528.2	6176.3	6358.1	6003.2
62.5°	864.4	837.1	974.1	1227.3	1807.4	2593.0	3529.9	4872.2	6671.5	6862.3	6444.0
65°	671.2	663.5	675.5	695.1	1006.0	1941.5	3268.0	5207.5	7301.2	7434.7	6903.4
67.5°	613.9	608.2	613.5	576.7	510.4	1081.4	2585.5	5292.5	7975.6	8056.8	7305.5
70°	545.7	539.0	556.2	524.7	401.6	491.8	1670.5	4984.3	8512.3	8664.5	7611.2
72.5°	444.5	437.0	477.0	462.7	338.2	315.8	839.1	4252.1	8456.0	8771.8	7392.3
75°	341.5	337.2	385.0	396.9	275.7	248.6	402.6	3160.7	7441.4	7759.6	6371.0
77.5°	265.3	261.9	286.2	329.6	222.3	192.7	247.5	2004.9	5607.8	5663.5	4390.5
80°	199.0	189.4	211.8	255.2	173.1	140.7	167.9	1169.1	3544.7	3213.2	1910.9
82.5°	124.5	119.7	138.4	170.3	122.1	96.9	109.3	645.9	1420.5	836.7	368.7
85°	71.0	69.2	75.3	97.3	66.3	55.8	62.5	285.3	259.5	178.5	111.1
87.5°	28.6	27.7	34.3	43.4	24.3	20.5	21.9	68.7	57.2	53.0	36.7
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°	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3	1810.3
2.5°	1815.5	1815.5	1808.8	1798.4	1786.4	1778.8	1766.4	1763.0	1750.2	1746.4	1752.5
5°	1837.4	1833.6	1813.1	1783.6	1743.0	1705.8	1664.8	1639.0	1602.8	1589.9	1599.4
7.5°	1865.1	1854.6	1819.4	1754.5	1669.5	1586.1	1499.3	1433.5	1370.4	1348.1	1350.9
10°	1890.4	1875.6	1815.5	1702.0	1555.0	1410.5	1272.2	1175.4	1101.9	1071.8	1078.5
12.5°	1915.7	1888.5	1790.3	1614.7	1392.4	1196.4	1049.0	973.5	928.2	892.1	903.9
15°	1939.5	1901.4	1751.1	1497.8	1214.0	1015.1	906.3	846.2	810.0	786.1	790.4
17.5°	1967.2	1912.3	1692.5	1349.5	1044.2	889.6	800.9	764.6	757.5	754.6	756.6
20°	2005.8	1922.4	1615.2	1183.5	919.2	789.5	743.6	740.4	739.8	738.4	743.2
22.5°	2047.3	1934.3	1513.1	1032.7	812.8	726.9	718.8	712.2	707.9	707.5	712.7
25°	2096.4	1938.1	1385.3	909.2	722.2	697.4	687.9	677.8	675.0	675.0	677.8
27.5°	2144.2	1925.3	1236.5	801.9	671.2	670.2	657.8	654.5	653.9	655.4	659.3
30°	2191.9	1900.9	1088.6	702.6	641.5	641.5	637.2	639.7	641.5	646.4	649.6
32.5°	2256.2	1875.1	965.0	629.1	615.8	611.1	615.3	620.1	622.1	628.2	633.4
35°	2350.7	1857.0	866.7	589.1	589.1	582.9	585.3	584.4	580.0	577.2	583.8
37.5°	2475.7	1856.1	785.7	570.5	566.7	565.7	566.2	560.1	543.4	523.3	523.8
40°	2625.9	1881.8	723.1	557.6	554.7	560.5	557.6	540.9	495.2	460.3	459.4
42.5°	2827.8	1955.3	683.1	541.9	550.4	557.6	546.2	488.4	457.5	434.1	433.2
45°	3065.3	2074.5	662.6	525.2	542.3	550.9	495.6	470.4	445.6	417.4	415.4
47.5°	3334.3	2224.8	657.8	509.4	524.3	529.5	474.2	462.7	434.6	404.1	401.6
50°	3627.2	2402.7	670.7	490.9	498.0	479.9	467.0	456.5	427.4	397.4	394.0
52.5°	3930.2	2598.8	696.5	465.6	471.8	451.7	464.1	455.1	423.1	382.5	379.7
55°	4227.8	2796.3	721.3	436.0	445.1	426.4	456.0	449.4	403.5	357.7	355.4
57.5°	4530.2	2992.8	745.6	409.8	419.3	402.1	443.1	434.1	381.6	334.9	333.9
60°	4844.6	3183.5	757.1	384.5	391.1	379.7	423.6	407.8	356.8	311.5	310.1
62.5°	5138.8	3342.4	738.4	359.2	363.5	358.7	397.8	376.8	332.0	285.3	284.7
65°	5434.1	3436.9	681.2	334.4	335.4	332.9	361.6	343.5	302.9	262.4	259.5
67.5°	5701.8	3489.8	590.1	307.7	305.2	304.3	327.7	307.2	274.8	239.4	236.6
70°	5758.6	3355.3	450.8	276.2	276.2	273.8	290.5	269.5	243.7	215.1	214.2
72.5°	5259.6	2822.4	320.1	240.5	244.3	239.4	253.3	235.6	212.3	193.2	187.5
75°	4241.1	2069.8	232.8	203.7	210.3	202.2	215.1	202.7	182.7	182.2	164.1
77.5°	2914.1	1279.8	168.8	167.9	172.7	162.2	177.0	170.3	152.2	144.0	135.0
80°	1243.5	510.4	123.1	129.8	129.8	120.2	137.4	139.3	123.5	119.7	119.7
82.5°	247.5	145.0	86.3	89.2	83.9	81.1	97.3	107.8	148.8	165.5	166.0
85°	74.4	53.4	52.0	48.7	42.9	43.4	57.2	108.2	133.6	76.4	65.8
87.5°	20.5	13.3	13.8	11.0	9.0	11.9	19.6	82.0	44.8	19.1	16.2
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)