

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: P967316

Luminaire Tested: **NVN-SB4D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967316
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-SB4D-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36130.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

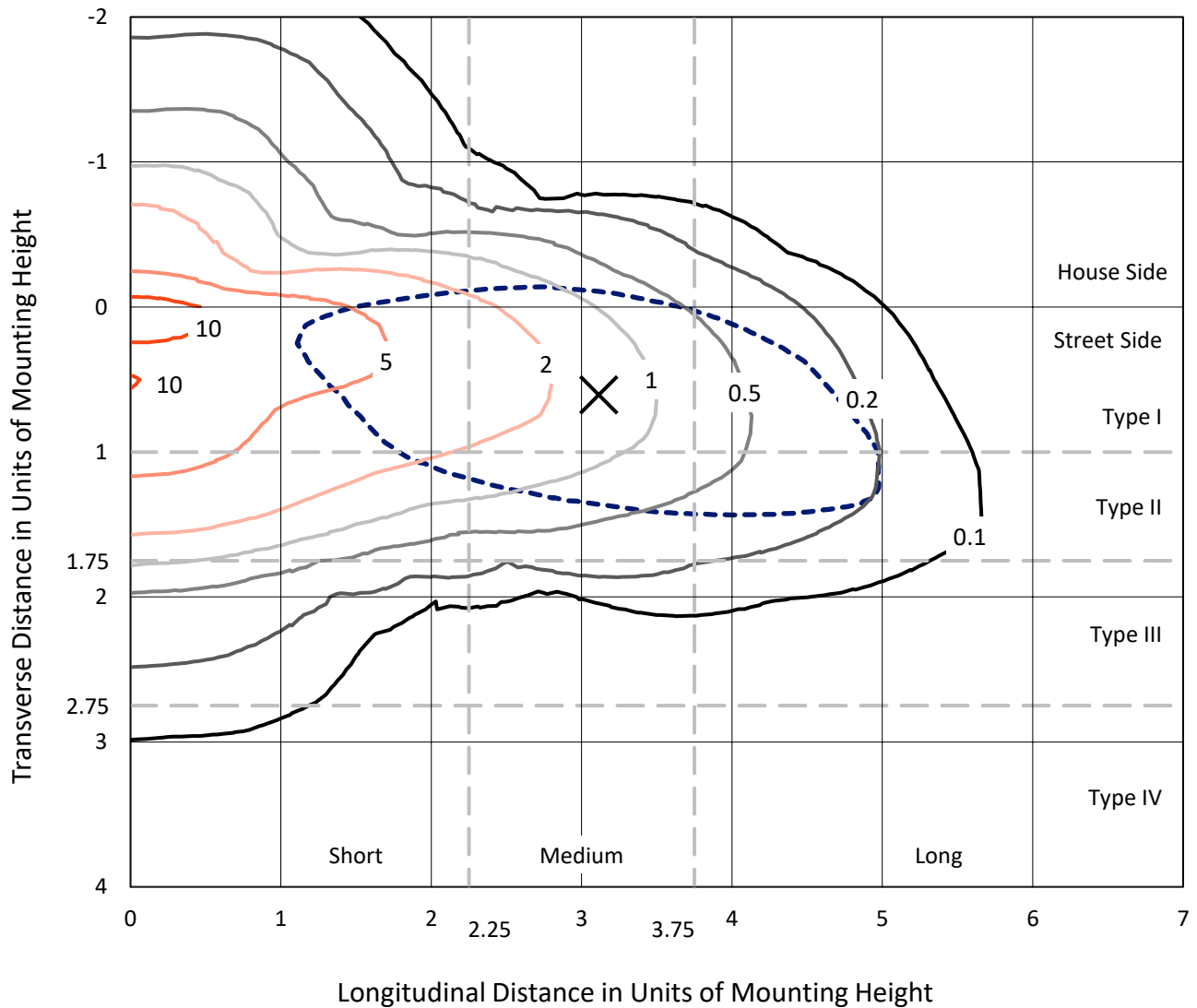
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

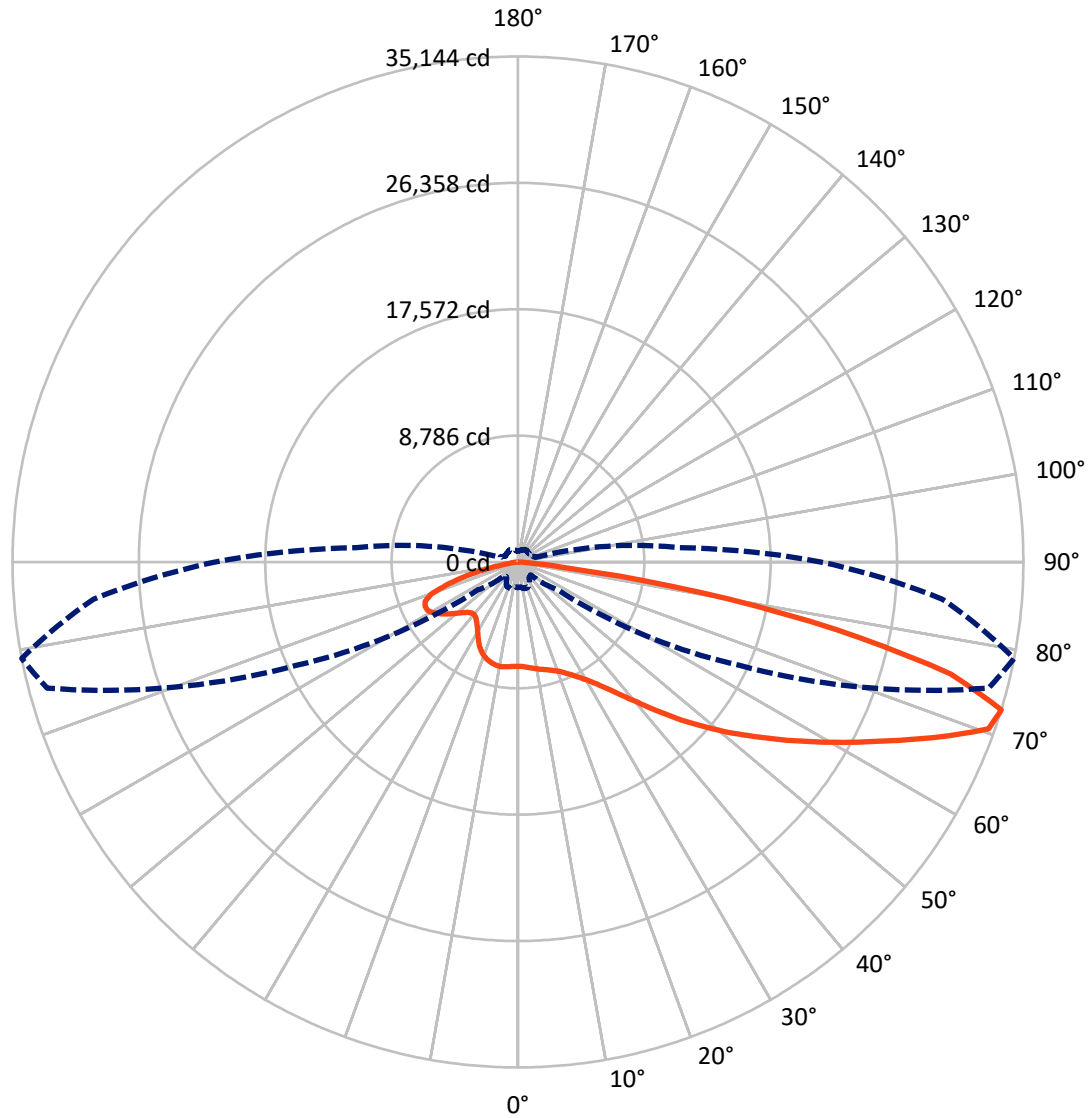
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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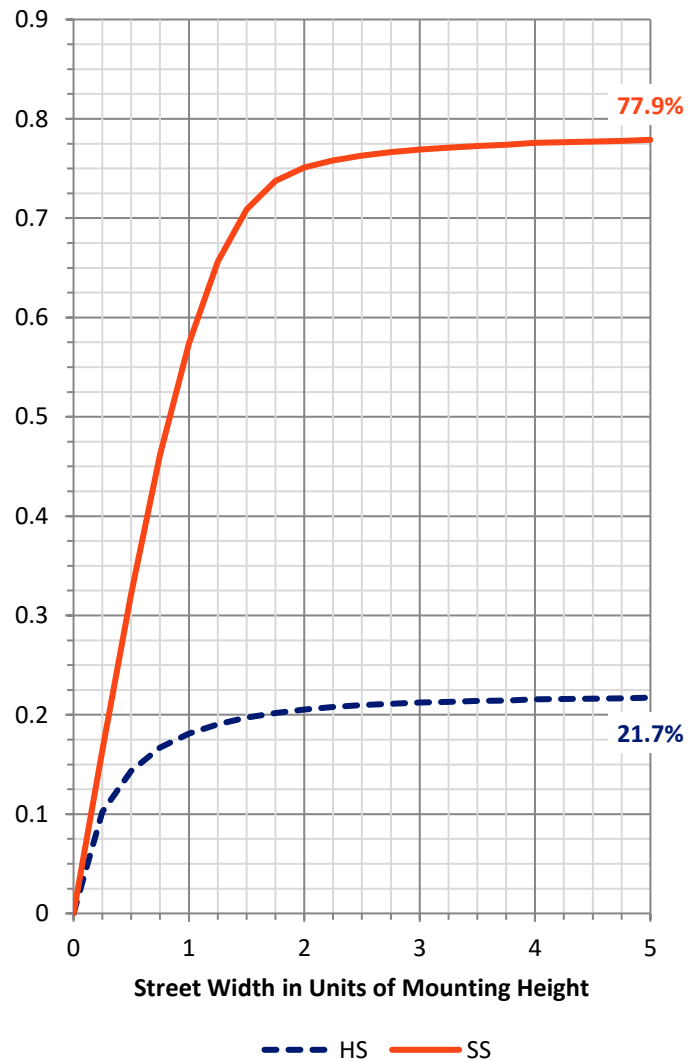
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7950.6	0.0	7950.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28179.6	0.0	28179.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	36130.2	0.0	36130.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.3	1.8
10°-20°	1721.2	4.8
20°-30°	2777.4	7.7
30°-40°	4168.5	11.5
40°-50°	5913.2	16.4
50°-60°	7467.6	20.7
60°-70°	7584.3	21.0
70°-80°	5169.1	14.3
80°-90°	670.6	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°	36130.2	100.0
0°-180°	36130.2	100.0



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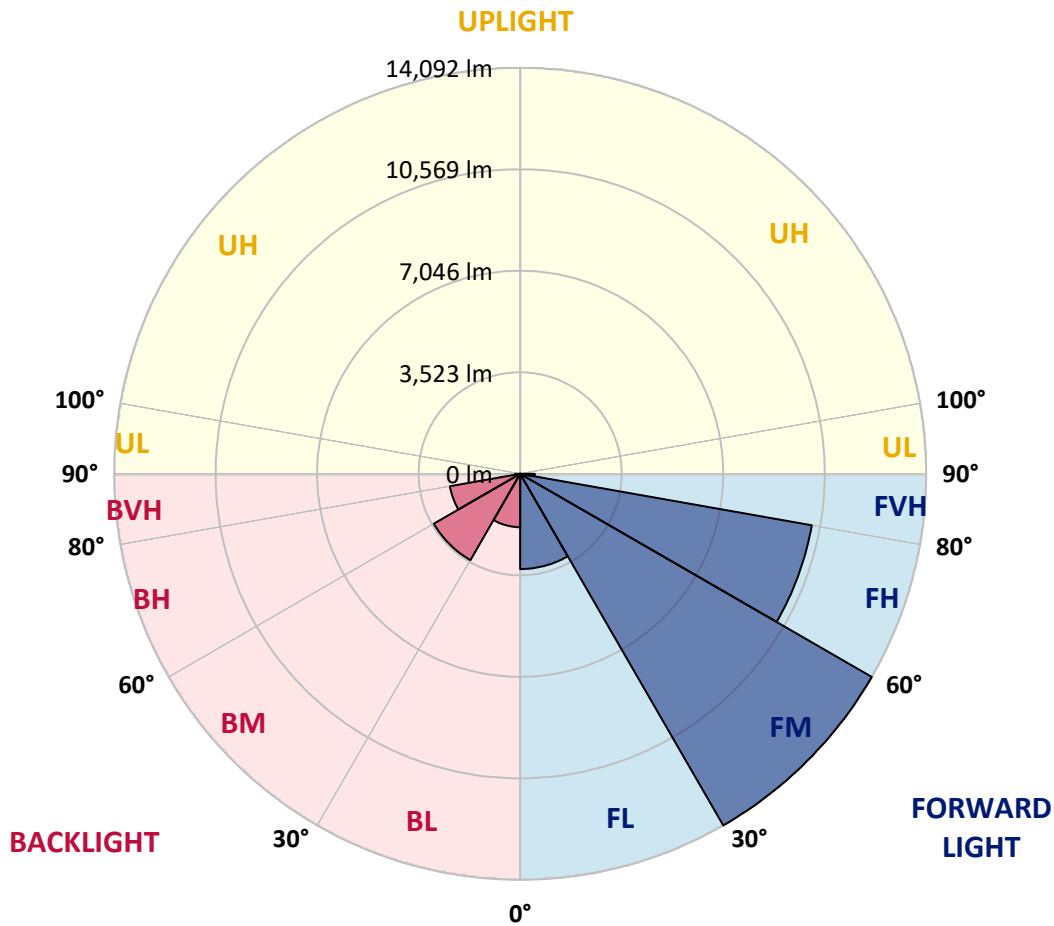
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3305.0	9.1			
FM (30°-60°)	14091.5	39.0			
FH (60°-80°)	10277.8	28.4			G4/12000
FVH (80°-90°)	505.2	1.4			G4/750
BL (0°-30°)	1851.9	5.1	B3/2500		
BM (30°-60°)	3457.7	9.6	B3/5000		
BH (60°-80°)	2475.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	165.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8
2.5°	7256.6	7222.3	7243.3	7235.6	7245.1	7256.6	7260.5	7266.2	7285.3	7283.3	7281.5
5°	7241.3	7207.0	7235.6	7226.0	7250.8	7277.6	7300.6	7321.6	7352.2	7365.5	7346.5
7.5°	7208.8	7185.9	7214.6	7243.3	7289.1	7329.3	7361.8	7409.5	7453.5	7461.1	7474.5
10°	7019.6	7002.4	7069.3	7143.8	7270.0	7379.0	7449.6	7505.0	7552.8	7560.5	7579.6
12.5°	6822.8	6801.8	6876.3	6977.6	7182.1	7379.0	7528.0	7600.6	7642.7	7667.5	7696.2
15°	6790.3	6773.1	6815.1	6903.1	7073.1	7327.3	7581.5	7715.3	7751.6	7780.3	7791.7
17.5°	6947.0	6914.5	6931.8	6962.3	7061.6	7279.6	7623.5	7845.2	7900.7	7931.2	7931.2
20°	7310.1	7264.3	7237.5	7176.3	7159.1	7287.2	7619.7	8002.0	8074.6	8112.8	8122.4
22.5°	7793.7	7763.0	7705.7	7551.0	7382.8	7380.8	7692.3	8202.7	8338.4	8374.7	8351.7
25°	8378.5	8332.6	8260.0	8049.7	7726.8	7566.2	7814.7	8458.7	8686.2	8695.7	8628.9
27.5°	9051.2	8982.4	8883.0	8605.9	8170.2	7856.7	8002.0	8753.1	9085.6	9081.8	8944.2
30°	9760.3	9691.4	9586.3	9249.9	8701.4	8248.5	8261.9	9070.3	9559.6	9538.5	9303.4
32.5°	10278.2	10226.5	10205.5	9945.6	9313.0	8711.0	8560.0	9421.9	10144.3	10125.3	9796.5
35°	10675.7	10608.7	10633.7	10501.7	9980.0	9228.9	8925.1	9840.5	10855.3	10853.4	10444.4
37.5°	11069.4	11010.1	11031.2	10943.2	10597.3	9886.3	9370.3	10352.7	11736.4	11778.4	11228.0
40°	11428.6	11365.6	11449.7	11367.5	11077.0	10585.8	9876.8	10931.7	12756.9	12837.2	12175.9
42.5°	11644.6	11594.9	11734.4	11736.4	11493.6	11176.4	10433.0	11570.1	13938.0	14117.6	13341.7
45°	11719.1	11701.9	11912.1	11956.1	11862.5	11518.4	10933.7	12265.8	15210.8	15531.9	14670.0
47.5°	11638.9	11606.4	11896.9	12059.3	12133.8	11679.1	11348.4	13018.7	16510.4	16980.6	16118.6
50°	11233.7	11170.7	11602.6	11944.6	12210.3	11784.1	11766.9	13888.3	17987.7	18501.8	17574.9
52.5°	10505.5	10457.8	10948.9	11543.3	12042.1	11835.8	12237.1	14838.1	19390.4	20055.6	19067.5
55°	9574.8	9511.8	10052.6	10828.5	11623.6	11818.6	12707.2	15900.7	21045.5	21720.2	20609.8
57.5°	8099.4	7973.3	8657.5	9574.8	10941.3	11797.5	13196.5	16957.6	22727.3	23535.7	22255.3
60°	5947.5	5760.2	6599.2	7686.7	9607.3	11593.1	13802.3	18142.5	24745.6	25473.7	24051.7
62.5°	3463.0	3354.1	3902.6	4917.3	7241.3	10389.0	14142.4	19520.4	26729.3	27493.8	25817.7
65°	2689.0	2658.4	2706.2	2784.5	4030.6	7778.3	13093.2	20864.0	29252.0	29787.1	27658.1
67.5°	2459.7	2436.7	2457.7	2310.6	2044.9	4332.6	10358.4	21204.2	31954.4	32279.3	29269.2
70°	2186.3	2159.6	2228.4	2102.3	1609.1	1970.4	6692.8	19969.6	34104.4	34714.1	30494.3
72.5°	1781.1	1750.6	1911.1	1853.8	1355.0	1265.2	3361.7	17035.9	33878.9	35144.1	29617.1
75°	1368.4	1351.2	1542.3	1590.1	1104.6	995.7	1613.0	12663.3	29813.9	31088.7	25525.3
77.5°	1062.6	1049.2	1146.7	1320.6	890.6	772.1	991.9	8032.5	22467.4	22691.0	17590.2
80°	796.9	758.7	848.6	1022.4	693.7	563.8	672.7	4684.2	14201.7	12873.5	7656.0
82.5°	498.8	479.7	554.2	682.2	489.2	388.0	437.7	2587.7	5691.4	3352.2	1477.3
85°	284.7	277.2	302.0	389.9	265.7	223.7	250.4	1142.9	1039.7	714.7	445.3
87.5°	114.7	110.8	137.6	173.9	97.5	82.2	87.9	275.2	229.3	212.2	147.2
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°	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8	7252.8
2.5°	7273.8	7273.8	7247.1	7205.0	7157.3	7126.6	7077.0	7063.6	7012.0	6996.8	7021.6
5°	7361.8	7346.5	7264.3	7145.8	6983.3	6834.3	6669.9	6566.7	6421.4	6369.9	6408.1
7.5°	7472.6	7430.5	7289.1	7029.2	6689.0	6354.6	6006.7	5743.0	5490.7	5400.9	5412.4
10°	7573.8	7514.6	7273.8	6819.0	6230.4	5651.2	5097.0	4709.1	4414.8	4294.3	4321.1
12.5°	7675.2	7566.2	7172.5	6469.2	5578.7	4793.1	4202.6	3900.6	3719.1	3573.9	3621.6
15°	7770.7	7617.8	7015.8	6001.0	4863.8	4066.9	3631.2	3390.4	3245.1	3149.5	3166.7
17.5°	7881.5	7661.8	6780.8	5406.7	4183.5	3564.3	3208.9	3063.5	3034.9	3023.4	3031.0
20°	8036.4	7702.0	6471.1	4741.5	3682.8	3162.9	2979.5	2966.1	2964.2	2958.5	2977.5
22.5°	8202.7	7749.7	6062.2	4137.6	3256.6	2912.5	2880.1	2853.3	2836.2	2834.2	2855.2
25°	8399.5	7765.0	5550.0	3642.6	2893.5	2794.0	2755.9	2715.7	2704.3	2704.3	2715.7
27.5°	8590.6	7713.4	4953.7	3212.7	2689.0	2685.2	2635.5	2622.1	2620.2	2625.9	2641.2
30°	8781.7	7616.0	4361.3	2815.2	2570.5	2570.5	2553.3	2562.8	2570.5	2589.6	2603.0
32.5°	9039.7	7512.7	3866.2	2520.8	2467.3	2448.2	2465.3	2484.5	2492.2	2517.0	2538.0
35°	9418.1	7440.1	3472.6	2360.3	2360.3	2335.5	2345.0	2341.2	2324.0	2312.5	2339.3
37.5°	9918.8	7436.3	3147.7	2285.8	2270.5	2266.6	2268.5	2243.7	2176.8	2096.5	2098.5
40°	10520.9	7539.5	2897.3	2234.1	2222.7	2245.6	2234.1	2167.3	1983.8	1844.3	1840.4
42.5°	11329.2	7833.8	2736.7	2171.1	2205.5	2234.1	2188.3	1957.0	1832.8	1739.1	1735.3
45°	12281.0	8311.6	2654.5	2104.2	2173.0	2207.3	1985.6	1884.4	1785.0	1672.3	1664.6
47.5°	13358.9	8913.6	2635.5	2041.1	2100.3	2121.3	1899.6	1853.8	1741.1	1618.8	1609.1
50°	14532.3	9626.5	2687.0	1966.6	1995.3	1922.6	1871.0	1829.0	1712.4	1592.0	1578.6
52.5°	15745.9	10411.9	2790.3	1865.3	1890.1	1809.8	1859.6	1823.3	1695.1	1532.8	1521.3
55°	16938.5	11203.1	2889.7	1746.8	1783.1	1708.6	1827.1	1800.3	1616.8	1433.4	1423.8
57.5°	18150.2	11990.6	2987.2	1641.6	1679.9	1611.1	1775.5	1739.1	1528.9	1341.6	1337.8
60°	19409.6	12755.0	3033.0	1540.4	1567.1	1521.3	1697.1	1634.1	1429.6	1247.9	1242.2
62.5°	20588.8	13391.4	2958.5	1439.1	1456.3	1437.2	1593.9	1509.8	1330.1	1142.9	1140.9
65°	21771.8	13769.8	2729.2	1339.7	1343.6	1333.9	1448.6	1376.1	1213.6	1051.1	1039.7
67.5°	22844.0	13981.9	2364.1	1232.7	1223.1	1219.3	1312.9	1230.8	1100.8	959.4	947.9
70°	23071.3	13443.0	1806.0	1106.6	1106.6	1097.0	1163.9	1079.8	976.6	861.9	858.1
72.5°	21072.3	11308.2	1282.4	963.2	978.5	959.4	1014.9	944.1	850.4	774.0	751.1
75°	16992.0	8292.5	932.6	816.1	842.9	810.4	861.9	812.2	732.0	730.1	657.4
77.5°	11675.2	5127.6	676.5	672.7	691.9	649.7	709.0	682.2	609.7	577.2	540.9
80°	4982.3	2044.9	493.0	519.9	519.9	481.6	550.4	558.0	495.0	479.7	479.7
82.5°	991.9	581.0	345.9	357.4	336.4	324.9	389.9	431.9	596.2	663.2	665.1
85°	298.2	214.0	208.3	195.0	172.0	173.9	229.3	433.8	535.2	305.8	263.7
87.5°	82.2	53.5	55.5	44.0	36.3	47.8	78.3	328.7	179.7	76.5	65.0
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)