

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: LUMARK

Report Number: P968698

Luminaire Tested: **NAV-SB5C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32885.1 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

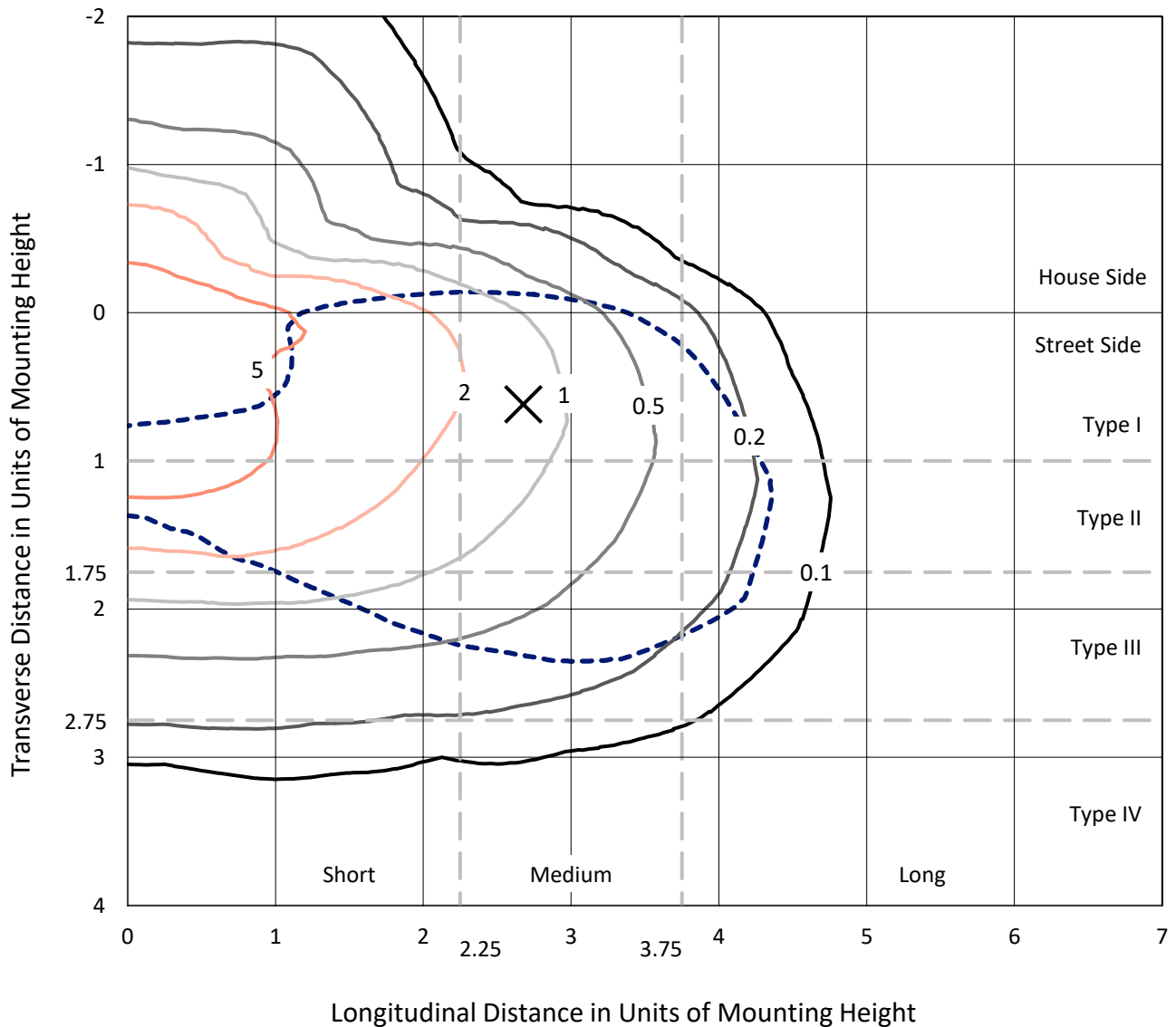
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

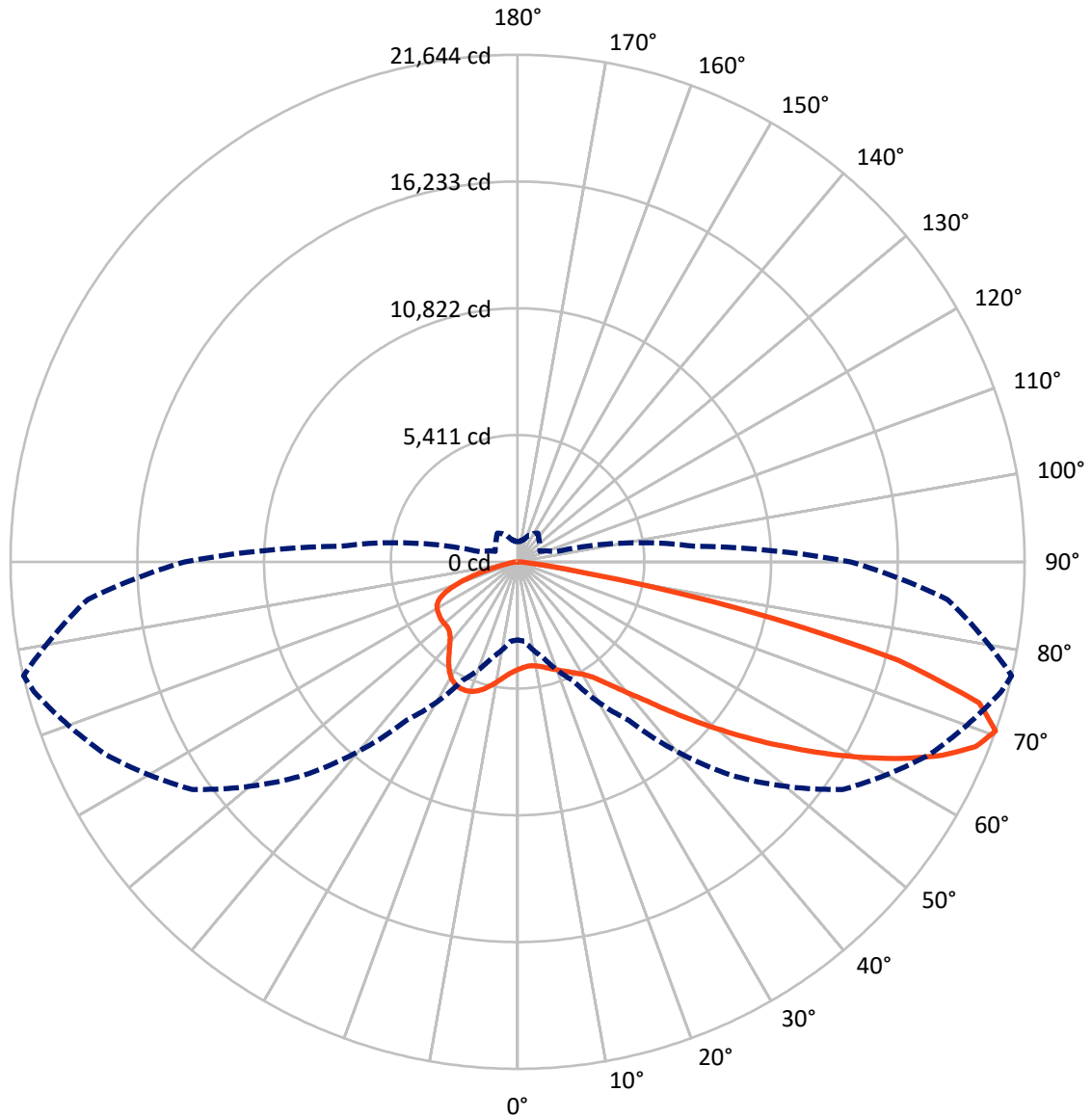
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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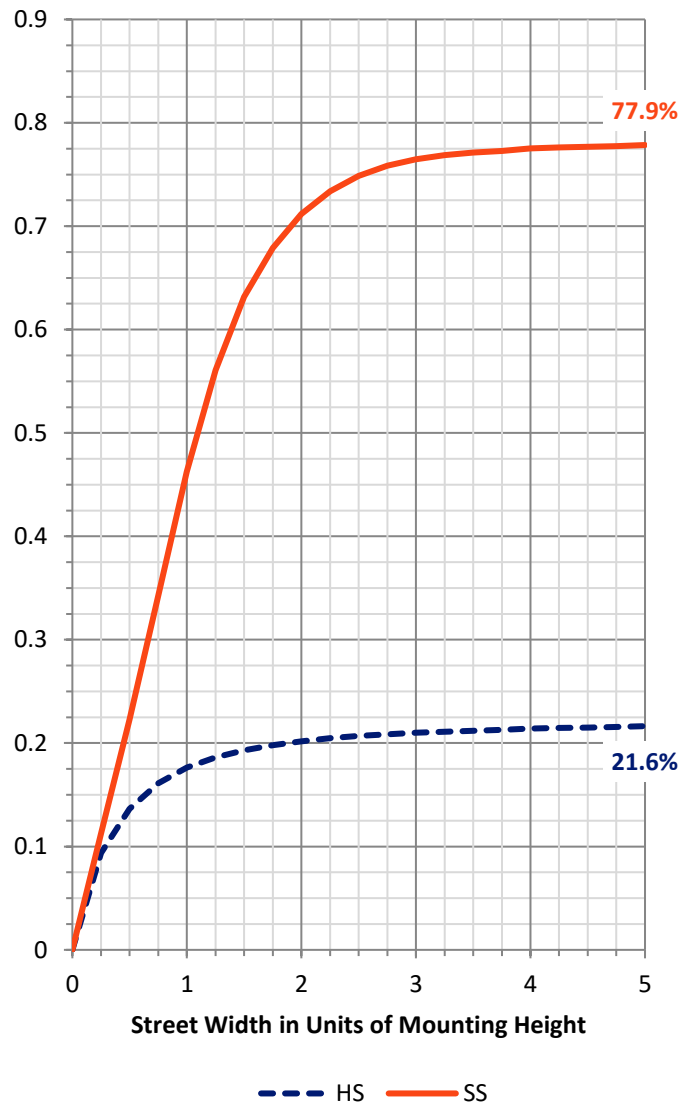
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7201.3	0.0	7201.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25683.8	0.0	25683.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	32885.1	0.0	32885.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	1.3
10°-20°	1262.8	3.8
20°-30°	2159.6	6.6
30°-40°	3472.8	10.6
40°-50°	5422.0	16.5
50°-60°	7242.5	22.0
60°-70°	7719.4	23.5
70°-80°	4752.0	14.5
80°-90°	416.4	1.3
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°	32885.1	100.0
0°-180°	32885.1	100.0

Coefficient of Utilization

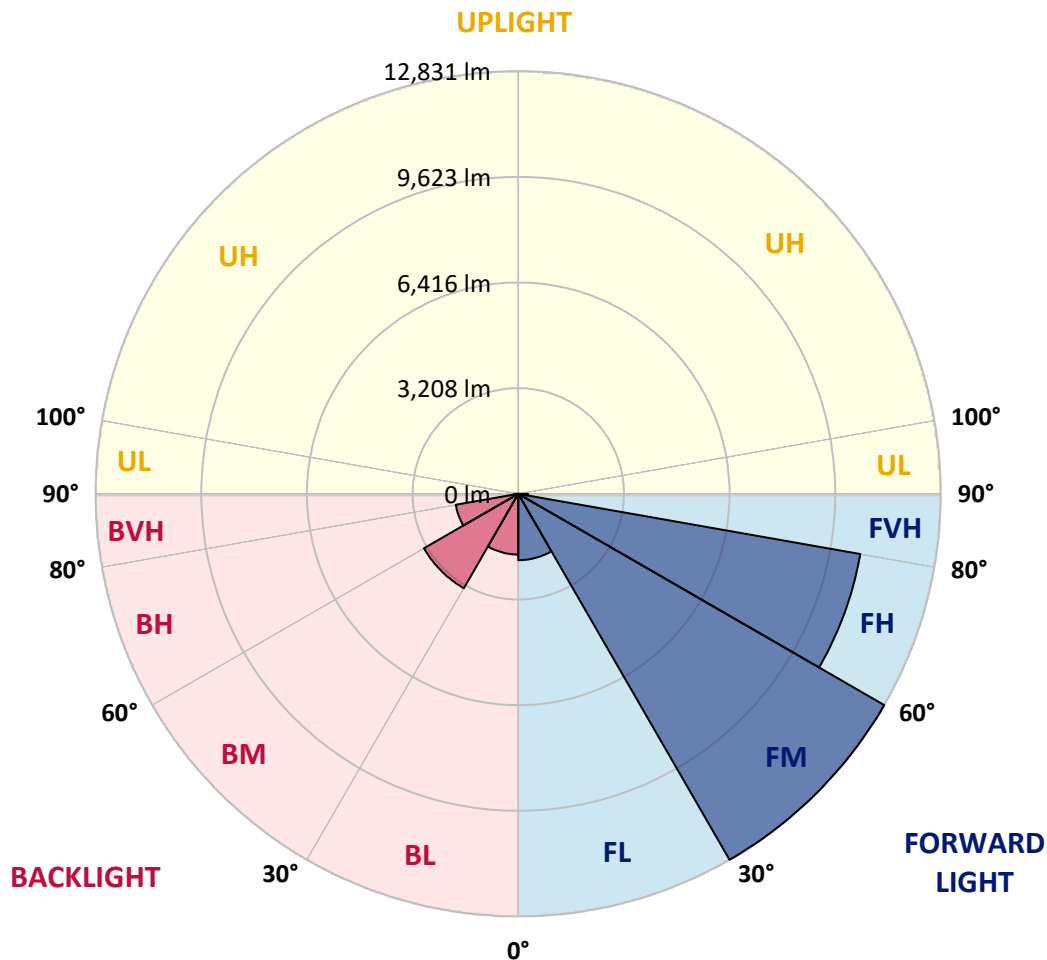


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2014.7	6.1			
FM (30°-60°)	12831.0	39.0			
FH (60°-80°)	10546.8	32.1			G4/12000
FVH (80°-90°)	291.2	0.9			G3/500
BL (0°-30°)	1845.2	5.6	B3/2500		
BM (30°-60°)	3306.3	10.1	B3/5000		
BH (60°-80°)	1924.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	125.2	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8
2.5°	4229.0	4227.3	4249.2	4256.0	4296.4	4325.0	4378.9	4436.2	4510.3	4518.7	4564.2
5°	3984.8	3984.8	4010.1	4037.1	4089.2	4146.5	4229.0	4328.4	4456.4	4476.6	4589.4
7.5°	3777.6	3791.2	3813.0	3865.3	3925.9	4008.4	4134.7	4276.2	4444.6	4476.6	4658.5
10°	3611.0	3626.0	3653.0	3695.1	3786.0	3900.6	4065.7	4247.6	4473.2	4523.7	4759.6
12.5°	3558.7	3573.9	3589.0	3621.0	3705.3	3840.0	4037.1	4261.0	4542.3	4592.8	4897.7
15°	3680.0	3698.5	3686.7	3678.3	3722.1	3845.1	4050.5	4309.9	4628.2	4700.6	5067.8
17.5°	3959.6	3966.3	3939.4	3860.2	3853.5	3919.2	4114.6	4377.3	4736.0	4815.1	5239.6
20°	4410.9	4399.1	4343.5	4186.9	4097.6	4084.2	4224.0	4478.3	4847.1	4931.4	5424.8
22.5°	5023.9	5010.5	4899.3	4651.8	4453.0	4321.7	4382.3	4609.6	4971.8	5066.1	5605.0
25°	5788.6	5770.0	5606.7	5269.8	4961.6	4636.6	4597.8	4783.2	5125.0	5212.6	5793.6
27.5°	6681.3	6666.1	6489.3	6044.6	5600.0	5067.8	4865.7	4986.9	5285.0	5384.4	6005.9
30°	7641.3	7685.0	7371.8	6893.4	6330.9	5630.3	5226.1	5237.9	5492.2	5581.4	6263.6
32.5°	8769.6	8845.4	8468.1	7861.9	7093.8	6241.6	5680.9	5588.2	5793.6	5867.7	6588.6
35°	9888.0	9973.9	9660.6	8990.3	8106.1	6962.5	6155.7	5990.7	6194.5	6275.4	7019.7
37.5°	10854.6	10969.2	10807.5	10224.8	9189.0	7831.5	6775.6	6464.0	6687.9	6789.0	7599.1
40°	11617.7	11792.8	11781.0	11417.2	10465.7	8885.8	7562.0	7048.4	7301.0	7410.4	8301.5
42.5°	12237.4	12389.0	12520.4	12501.8	11797.9	10083.3	8486.7	7807.9	7999.9	8126.3	9091.3
45°	12665.2	12826.8	13109.9	13414.7	13079.5	11365.0	9546.0	8709.0	8884.2	9074.5	10032.8
47.5°	13047.5	13231.1	13598.3	14081.7	14167.6	12651.8	10706.4	9758.3	9918.3	10115.3	10977.6
50°	13081.2	13239.5	13808.8	14494.2	14940.6	13887.9	11952.8	10935.5	11085.4	11295.9	11989.8
52.5°	12267.7	12517.0	13510.6	14482.4	15296.0	14922.1	13190.7	12160.0	12328.4	12581.0	13037.4
55°	9522.5	9888.0	12636.6	14031.1	15169.6	15590.7	14367.9	13461.8	13677.4	13941.8	14091.7
57.5°	8202.0	8362.1	10031.1	13209.2	14593.6	15764.1	15361.6	14777.2	15124.2	15413.8	15206.7
60°	7371.8	7504.8	8491.7	11930.9	13835.8	15489.6	16129.6	16003.3	16602.8	16948.2	16346.9
62.5°	6482.5	6608.8	7506.5	9962.1	12865.6	15033.2	16614.6	17135.0	18118.6	18495.9	17421.4
65°	5600.0	5707.7	6568.4	8370.5	11632.8	14576.7	16865.6	18113.6	19521.6	19912.4	18314.0
67.5°	4616.4	4705.7	5519.1	7061.8	10133.9	13951.9	16990.2	18883.3	20742.6	21077.8	18755.2
70°	3331.4	3400.4	4240.8	5584.8	8252.6	12877.4	16939.7	19429.0	21375.9	21643.7	18421.8
72.5°	1574.7	1637.0	2624.0	3626.0	5829.1	10785.7	15917.4	18996.1	20732.6	20599.5	16380.5
75°	840.4	894.3	1507.4	1989.0	3078.7	7393.6	13025.6	16363.7	17409.6	16762.8	12106.1
77.5°	569.3	611.4	933.1	1194.1	1406.3	3509.9	8372.2	11329.6	10900.2	9832.4	6063.1
80°	451.4	495.2	764.6	808.4	680.4	1268.2	3459.4	5244.6	3767.6	3013.0	1724.7
82.5°	347.0	395.8	643.4	586.1	370.5	520.4	1007.2	1659.0	965.0	734.3	417.7
85°	212.2	264.4	505.2	373.9	208.8	237.5	341.9	461.5	294.7	245.9	149.9
87.5°	107.8	151.6	256.0	136.4	94.3	55.6	90.9	90.9	77.5	67.3	38.7
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°	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8	4587.8
2.5°	4604.6	4638.3	4695.5	4749.4	4791.6	4832.0	4872.4	4894.3	4901.0	4928.0	4943.2
5°	4658.5	4720.8	4832.0	4936.4	5002.1	5042.5	5071.1	5088.0	5091.4	5099.8	5113.2
7.5°	4757.8	4857.3	5012.1	5116.6	5165.5	5162.1	5150.3	5108.2	5091.4	5076.2	5079.6
10°	4897.7	5029.1	5219.3	5291.8	5261.4	5180.7	5076.2	4953.2	4896.0	4840.4	4823.5
12.5°	5071.1	5237.9	5424.8	5421.4	5271.6	5064.4	4821.9	4633.2	4513.7	4427.8	4407.6
15°	5281.6	5473.7	5616.8	5502.3	5173.9	4801.6	4446.2	4200.4	4092.6	3998.3	3988.2
17.5°	5498.9	5704.4	5770.0	5477.0	4928.0	4412.6	4010.1	3816.4	3710.3	3659.8	3674.9
20°	5711.1	5915.0	5861.1	5332.2	4554.1	3971.4	3612.6	3506.5	3484.6	3496.4	3491.4
22.5°	5935.2	6117.0	5879.5	5052.6	4077.4	3520.0	3322.9	3326.3	3375.1	3410.5	3418.9
25°	6164.1	6287.1	5830.7	4648.4	3565.5	3188.2	3139.4	3193.3	3289.2	3358.3	3376.9
27.5°	6384.8	6438.7	5724.6	4148.2	3125.8	2950.8	2959.2	3070.3	3215.1	3311.2	3334.7
30°	6634.1	6573.4	5520.9	3585.7	2821.0	2746.9	2817.6	2947.4	3092.2	3178.1	3198.3
32.5°	6915.4	6689.7	5197.5	3065.3	2605.4	2583.6	2699.7	2784.0	2848.0	2873.3	2886.7
35°	7265.6	6853.0	4783.2	2699.7	2411.8	2464.0	2575.1	2533.1	2507.8	2494.3	2507.8
37.5°	7720.4	7073.6	4298.1	2462.3	2255.1	2378.1	2423.6	2292.2	2192.8	2144.0	2155.8
40°	8267.8	7397.0	3831.6	2278.7	2155.8	2304.0	2224.9	2066.5	1940.2	1871.1	1876.2
42.5°	8875.8	7735.6	3439.2	2140.6	2100.2	2243.3	2078.3	1889.7	1685.9	1664.0	1685.9
45°	9514.0	8084.2	3171.4	2034.5	2073.3	2191.1	1994.1	1689.3	1544.4	1633.6	1680.8
47.5°	10152.4	8404.2	3009.7	1955.4	2059.7	2132.2	1920.0	1578.1	1475.4	1605.0	1665.7
50°	10863.2	8690.5	2937.2	1898.1	2044.7	2108.6	1808.8	1549.5	1402.9	1488.8	1552.9
52.5°	11568.8	8912.8	2883.3	1840.8	2022.7	2090.1	1754.9	1515.8	1315.4	1320.4	1355.8
55°	12272.7	9057.6	2824.4	1765.0	1973.8	2049.7	1749.9	1478.8	1249.7	1226.1	1242.9
57.5°	13024.0	9140.1	2752.0	1680.8	1889.7	1947.0	1744.9	1450.1	1229.5	1190.7	1195.8
60°	13788.6	9261.4	2657.7	1578.1	1776.8	1824.0	1733.1	1440.0	1217.7	1152.0	1157.0
62.5°	14474.0	9303.5	2544.9	1480.4	1632.0	1702.7	1707.8	1431.6	1185.7	1072.9	1072.9
65°	14923.7	9121.7	2347.8	1369.3	1475.4	1578.1	1659.0	1402.9	1128.4	1015.6	1015.6
67.5°	14905.2	8602.9	2039.5	1226.1	1323.8	1440.0	1588.2	1354.1	1059.3	944.8	949.9
70°	14211.3	7579.0	1648.8	1059.3	1157.0	1291.8	1497.2	1281.7	976.8	867.4	877.5
72.5°	12188.6	5931.8	1197.5	864.0	963.4	1138.6	1379.3	1194.1	892.7	798.3	793.2
75°	8707.4	3754.1	811.8	663.6	749.5	965.0	1232.9	1091.3	815.2	801.7	756.2
77.5°	4448.0	1793.6	537.3	485.0	522.1	761.3	1035.8	975.2	827.0	661.8	589.5
80°	1446.7	661.8	338.6	330.2	347.0	507.0	801.7	800.0	626.5	449.7	397.5
82.5°	461.5	284.6	220.6	212.2	203.8	318.4	559.1	633.2	422.7	284.6	282.9
85°	183.6	170.1	129.7	119.6	85.9	149.9	293.0	421.1	315.0	205.5	210.5
87.5°	67.3	67.3	35.4	25.2	18.6	50.5	79.1	126.3	180.2	106.1	104.4
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)