

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: P969752

Luminaire Tested: **NAV-SB6A-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969752
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-SB6A-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23645.7 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

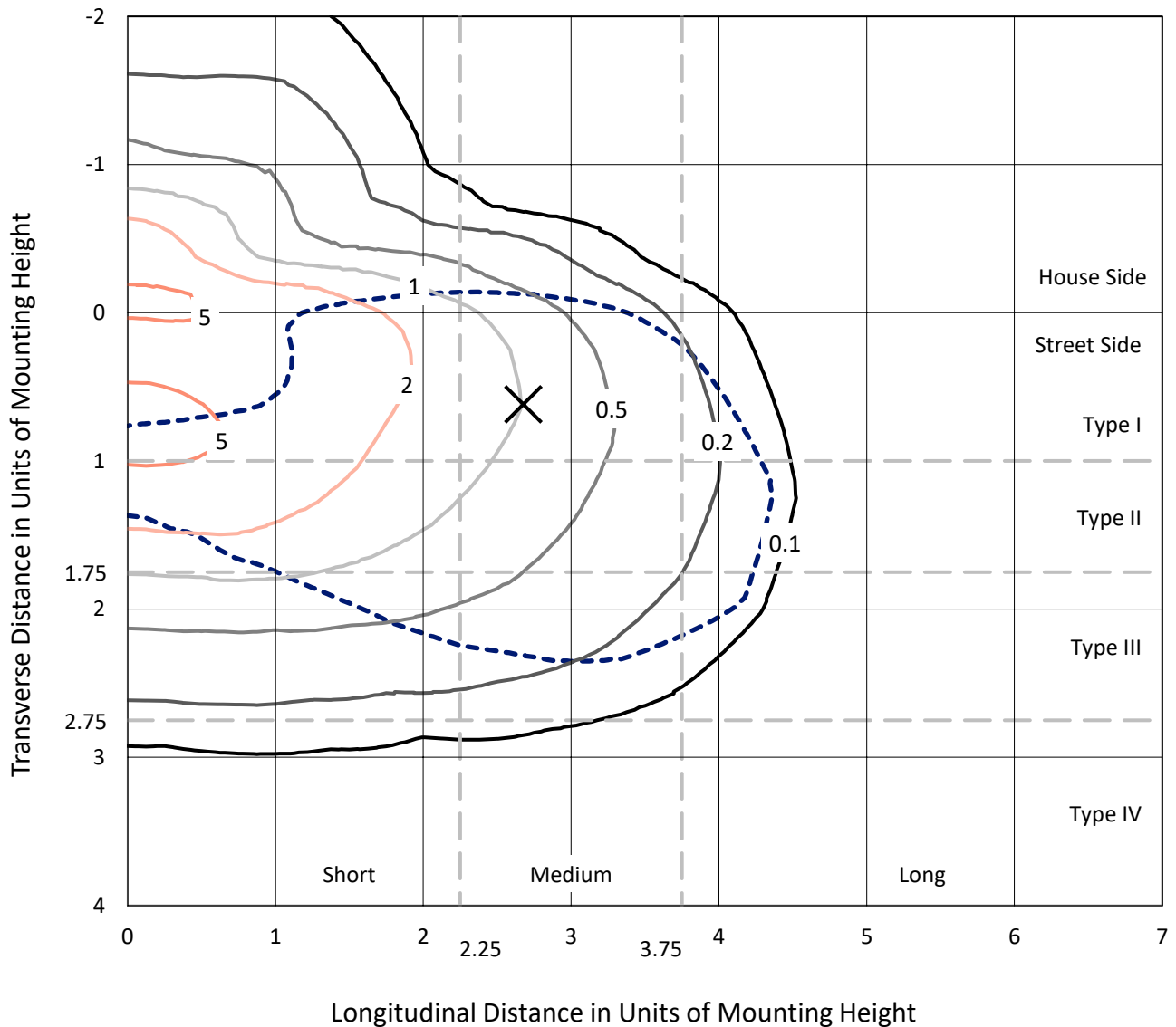
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

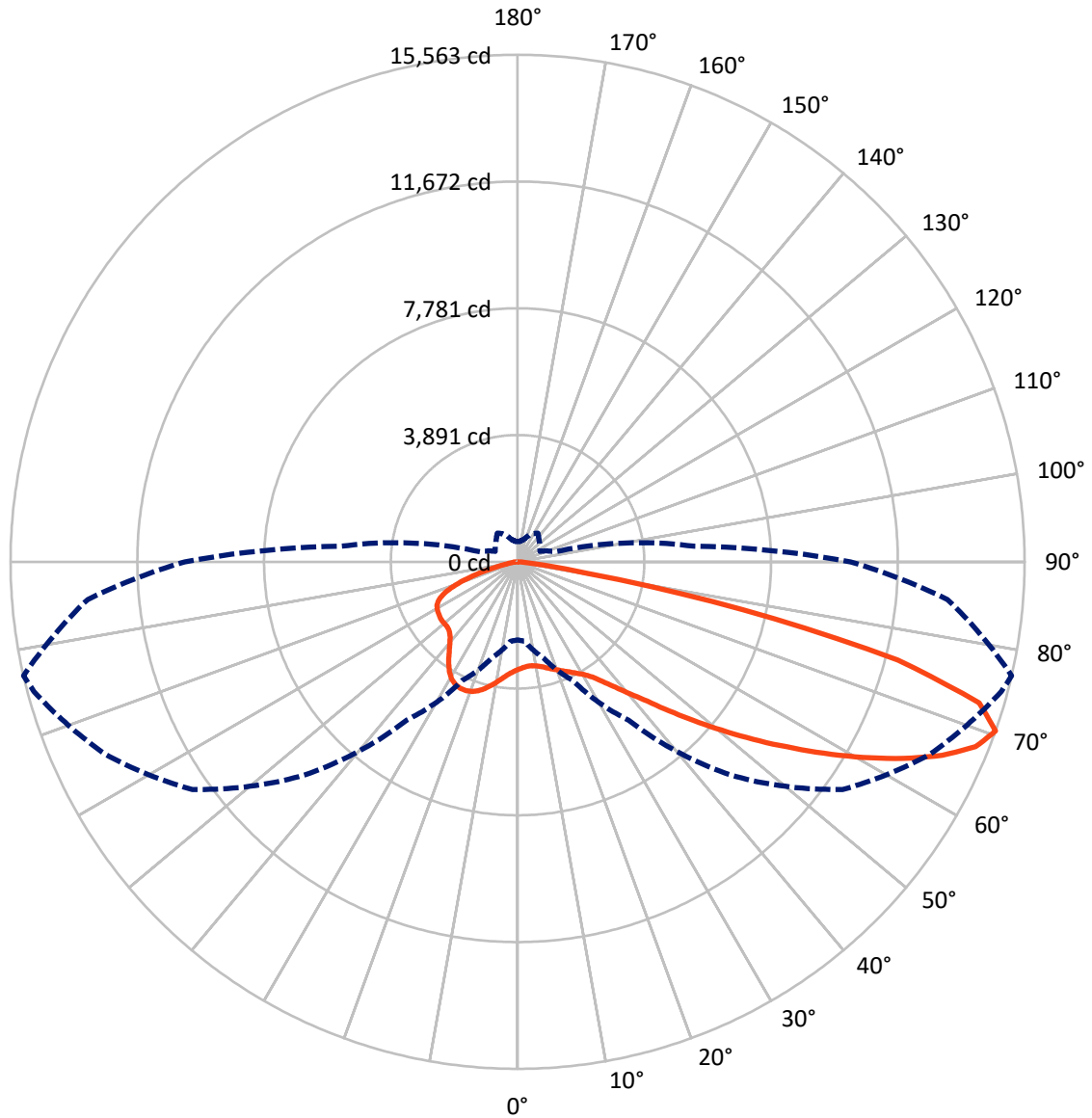
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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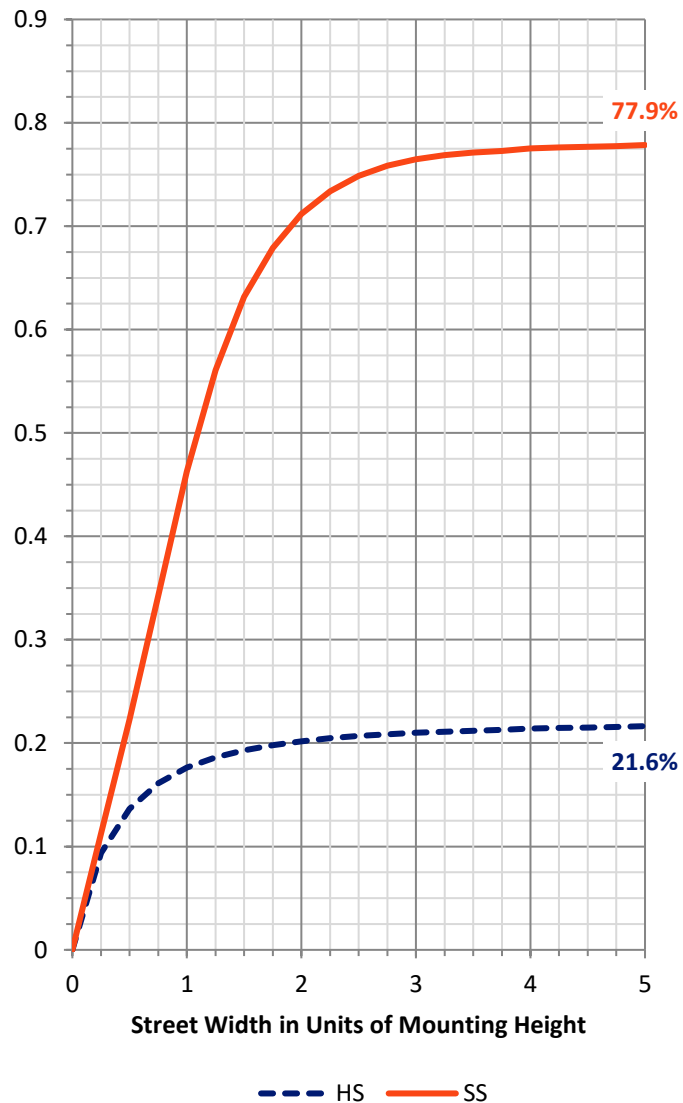
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5178.1	0.0	5178.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	18467.7	0.0	18467.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	23645.7	0.0	23645.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.3
10°-20°	908.0	3.8
20°-30°	1552.8	6.6
30°-40°	2497.1	10.6
40°-50°	3898.6	16.5
50°-60°	5207.7	22.0
60°-70°	5550.6	23.5
70°-80°	3416.9	14.5
80°-90°	299.4	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°	23645.7	100.0
0°-180°	23645.7	100.0

Coefficient of Utilization

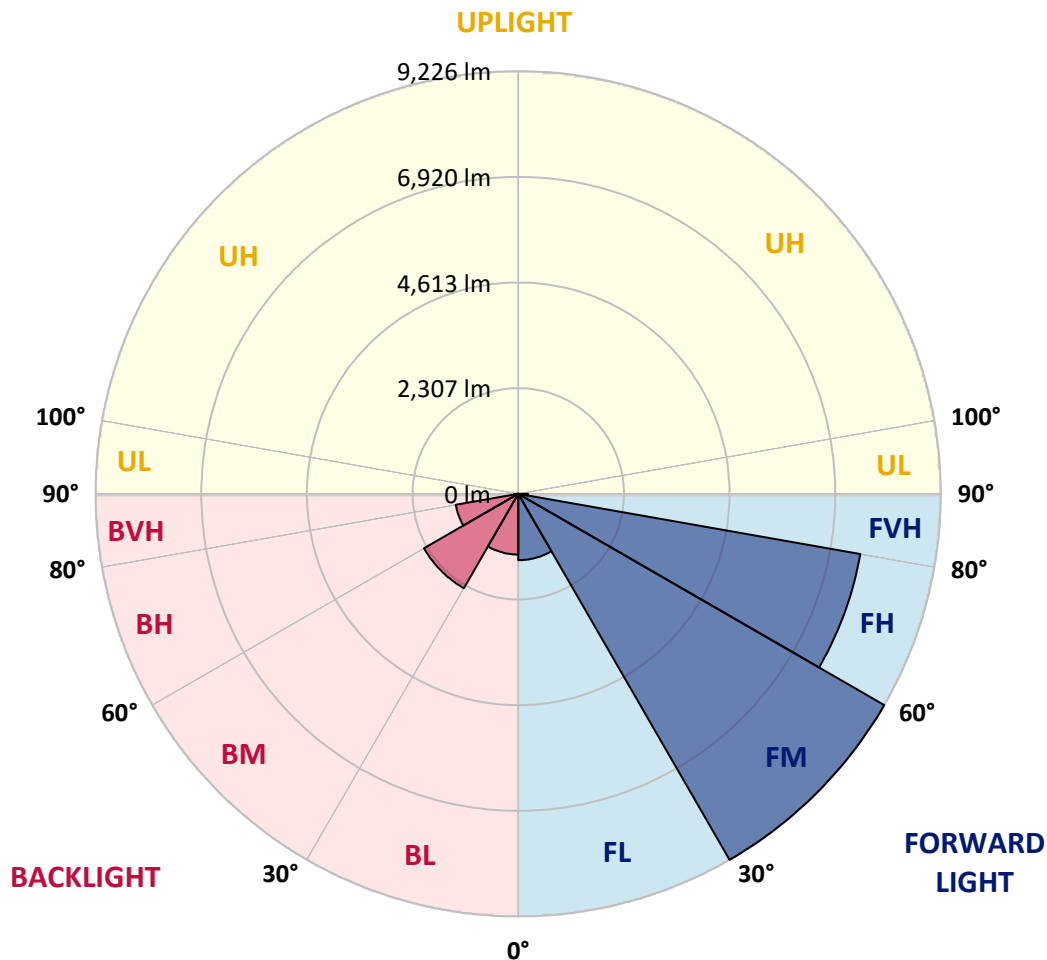


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1448.7	6.1			
FM (30°-60°)	9226.0	39.0			
FH (60°-80°)	7583.6	32.1			G4/12000
FVH (80°-90°)	209.4	0.9			G2/225
BL (0°-30°)	1326.8	5.6	B3/2500		
BM (30°-60°)	2377.4	10.1	B2/2500		
BH (60°-80°)	1383.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	90.0	0.4			G1/100
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°	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8
2.5°	3040.9	3039.6	3055.4	3060.2	3089.2	3109.8	3148.6	3189.8	3243.1	3249.1	3281.8
5°	2865.3	2865.3	2883.4	2902.8	2940.3	2981.5	3040.9	3112.3	3204.4	3218.9	3300.0
7.5°	2716.2	2726.0	2741.8	2779.3	2822.8	2882.2	2973.0	3074.8	3195.8	3218.9	3349.7
10°	2596.4	2607.3	2626.7	2657.0	2722.4	2804.7	2923.4	3054.2	3216.4	3252.7	3422.3
12.5°	2558.9	2569.8	2580.6	2603.7	2664.2	2761.1	2902.8	3063.8	3266.1	3302.4	3521.6
15°	2646.0	2659.4	2650.9	2644.8	2676.4	2764.7	2912.4	3099.0	3327.9	3379.9	3644.0
17.5°	2847.0	2852.0	2832.6	2775.6	2770.8	2818.0	2958.5	3147.5	3405.4	3462.2	3767.5
20°	3171.7	3163.1	3123.2	3010.5	2946.4	2936.7	3037.2	3220.0	3485.3	3545.9	3900.6
22.5°	3612.4	3602.8	3522.8	3344.8	3201.9	3107.5	3151.1	3314.5	3574.9	3642.7	4030.2
25°	4162.2	4148.9	4031.4	3789.2	3567.6	3333.9	3306.0	3439.3	3685.1	3748.1	4165.9
27.5°	4804.1	4793.2	4666.0	4346.3	4026.6	3644.0	3498.6	3585.8	3800.2	3871.6	4318.4
30°	5494.3	5525.9	5300.6	4956.7	4552.2	4048.4	3757.8	3766.3	3949.1	4013.3	4503.7
32.5°	6305.7	6360.2	6089.0	5653.0	5100.8	4488.0	4084.7	4018.1	4165.9	4219.2	4737.4
35°	7109.8	7171.6	6946.3	6464.4	5828.6	5006.3	4426.3	4307.6	4454.1	4512.3	5047.5
37.5°	7805.0	7887.3	7771.0	7352.0	6607.3	5631.2	4871.9	4647.9	4808.9	4881.6	5464.1
40°	8353.5	8479.5	8471.0	8209.4	7525.2	6389.3	5437.4	5068.1	5249.7	5328.5	5969.1
42.5°	8799.2	8908.2	9002.7	8989.4	8483.1	7250.3	6102.2	5614.2	5752.3	5843.1	6537.0
45°	9106.8	9223.1	9426.5	9645.7	9404.7	8171.9	6864.0	6262.1	6388.1	6524.9	7214.0
47.5°	9381.7	9513.7	9777.7	10125.3	10187.1	9097.1	7698.4	7016.6	7131.6	7273.3	7893.3
50°	9405.9	9519.8	9929.1	10422.0	10742.9	9986.0	8594.5	7863.1	7970.9	8122.2	8621.2
52.5°	8821.0	9000.2	9714.7	10413.5	10998.4	10729.6	9484.6	8743.5	8864.6	9046.2	9374.4
55°	6847.1	7109.8	9086.2	10089.0	10907.5	11210.3	10331.2	9679.6	9834.7	10024.7	10132.5
57.5°	5897.6	6012.6	7212.8	9498.0	10493.4	11335.1	11045.6	10625.5	10874.8	11083.2	10934.2
60°	5300.6	5396.2	6105.9	8578.8	9948.4	11137.6	11597.9	11507.1	11938.2	12186.4	11754.1
62.5°	4661.2	4752.0	5397.4	7163.1	9250.9	10809.4	11946.6	12320.8	13028.1	13299.4	12526.7
65°	4026.6	4104.1	4722.9	6018.7	8364.4	10481.3	12127.1	13024.5	14036.9	14317.8	13168.6
67.5°	3319.4	3383.5	3968.5	5077.7	7286.6	10032.0	12216.7	13577.9	14914.8	15155.9	13485.8
70°	2395.4	2445.0	3049.4	4015.7	5933.9	9259.4	12180.4	13970.2	15370.2	15562.7	13246.1
72.5°	1132.3	1177.1	1886.7	2607.3	4191.3	7755.4	11445.3	13658.9	14907.5	14811.9	11778.3
75°	604.3	643.1	1083.8	1430.2	2213.7	5316.4	9365.9	11766.2	12518.2	12053.2	8704.7
77.5°	409.3	439.6	670.9	858.6	1011.2	2523.8	6019.9	8146.5	7837.7	7069.8	4359.6
80°	324.5	356.1	549.8	581.3	489.2	911.9	2487.4	3771.1	2709.1	2166.5	1240.0
82.5°	249.5	284.5	462.6	421.5	266.4	374.2	724.2	1192.9	693.9	528.0	300.3
85°	152.6	190.1	363.3	268.9	150.2	170.8	245.8	331.8	212.0	176.8	107.8
87.5°	77.5	109.0	184.1	98.1	67.9	40.0	65.4	65.4	55.7	48.5	27.9
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°	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8
2.5°	3311.0	3335.1	3376.4	3415.1	3445.3	3474.3	3503.4	3519.2	3524.1	3543.4	3554.3
5°	3349.7	3394.5	3474.3	3549.5	3596.7	3625.7	3646.3	3658.4	3660.9	3666.9	3676.7
7.5°	3421.1	3492.6	3604.0	3679.0	3714.2	3711.7	3703.2	3673.0	3660.9	3650.0	3652.4
10°	3521.6	3616.1	3752.9	3805.0	3783.2	3725.1	3650.0	3561.6	3520.4	3480.5	3468.3
12.5°	3646.3	3766.3	3900.6	3898.3	3790.4	3641.5	3467.2	3331.5	3245.6	3183.8	3169.2
15°	3797.7	3935.8	4038.7	3956.4	3720.2	3452.6	3197.1	3020.3	2942.8	2874.9	2867.6
17.5°	3953.9	4101.7	4148.9	3938.3	3543.4	3172.9	2883.4	2744.1	2667.9	2631.5	2642.4
20°	4106.6	4253.0	4214.3	3834.0	3274.6	2855.5	2597.7	2521.3	2505.6	2514.0	2510.4
22.5°	4267.6	4398.4	4227.6	3633.0	2931.8	2531.0	2389.3	2391.7	2426.9	2452.3	2458.4
25°	4432.3	4520.7	4192.6	3342.4	2563.7	2292.4	2257.4	2296.1	2365.1	2414.8	2428.1
27.5°	4591.0	4629.7	4116.2	2982.7	2247.6	2121.6	2127.8	2207.6	2311.8	2380.9	2397.8
30°	4770.1	4726.6	3969.7	2578.3	2028.5	1975.2	2026.0	2119.3	2223.4	2285.1	2299.7
32.5°	4972.4	4810.1	3737.2	2204.1	1873.4	1857.7	1941.2	2001.8	2047.8	2066.0	2075.6
35°	5224.3	4927.6	3439.3	1941.2	1734.2	1771.7	1851.7	1821.3	1803.2	1793.5	1803.2
37.5°	5551.3	5086.3	3090.5	1770.5	1621.6	1709.9	1742.6	1648.2	1576.8	1541.6	1550.1
40°	5944.9	5318.7	2755.1	1638.5	1550.1	1656.7	1599.7	1485.9	1395.1	1345.4	1349.1
42.5°	6382.1	5562.2	2472.9	1539.2	1510.1	1613.0	1494.3	1358.7	1212.3	1196.5	1212.3
45°	6841.0	5812.9	2280.3	1462.9	1490.8	1575.5	1433.9	1214.6	1110.5	1174.6	1208.6
47.5°	7299.9	6043.0	2164.1	1406.0	1481.0	1533.1	1380.6	1134.7	1060.9	1154.0	1197.7
50°	7811.0	6248.8	2112.0	1364.8	1470.2	1516.2	1300.6	1114.2	1008.8	1070.5	1116.5
52.5°	8318.4	6408.7	2073.3	1323.7	1454.5	1502.9	1261.9	1089.9	945.8	949.5	974.9
55°	8824.6	6512.8	2030.8	1269.2	1419.3	1473.8	1258.3	1063.2	898.6	881.6	893.7
57.5°	9364.7	6572.2	1978.8	1208.6	1358.7	1399.9	1254.6	1042.6	884.1	856.2	859.8
60°	9914.5	6659.3	1911.0	1134.7	1277.7	1311.5	1246.1	1035.5	875.6	828.3	832.0
62.5°	10407.4	6689.7	1829.8	1064.5	1173.4	1224.4	1227.9	1029.4	852.6	771.4	771.4
65°	10730.7	6558.9	1688.2	984.5	1060.9	1134.7	1192.9	1008.8	811.4	730.2	730.2
67.5°	10717.4	6185.9	1466.6	881.6	951.8	1035.5	1142.0	973.6	761.7	679.4	683.1
70°	10218.5	5449.5	1185.6	761.7	832.0	928.9	1076.6	921.6	702.4	623.7	630.9
72.5°	8764.1	4265.2	861.0	621.3	692.7	818.7	991.8	858.6	641.9	574.0	570.4
75°	6260.9	2699.3	583.7	477.1	538.9	693.9	886.4	784.7	586.1	576.5	543.8
77.5°	3198.3	1289.8	386.3	348.8	375.5	547.3	744.8	701.2	594.6	475.9	423.8
80°	1040.3	475.9	243.4	237.4	249.5	364.5	576.5	575.2	450.5	323.4	285.8
82.5°	331.8	204.7	158.7	152.6	146.6	228.9	402.0	455.3	304.0	204.7	203.5
85°	132.0	122.3	93.3	86.0	61.8	107.8	210.7	302.8	226.4	147.7	151.4
87.5°	48.5	48.5	25.4	18.1	13.3	36.3	56.9	90.8	129.6	76.3	75.1
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)