

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: P969757

Luminaire Tested: **NAV-SB6A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22987.7 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

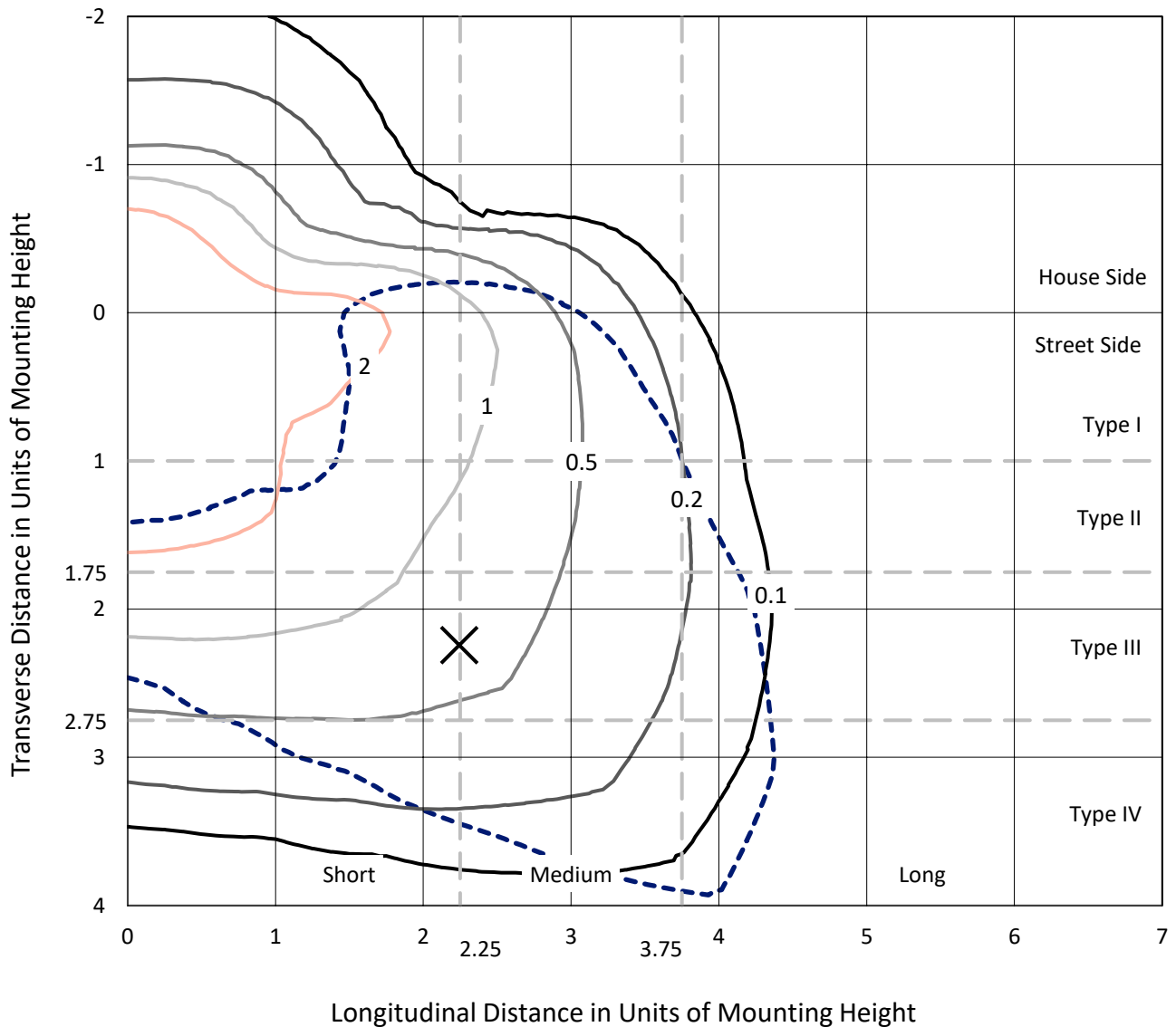
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

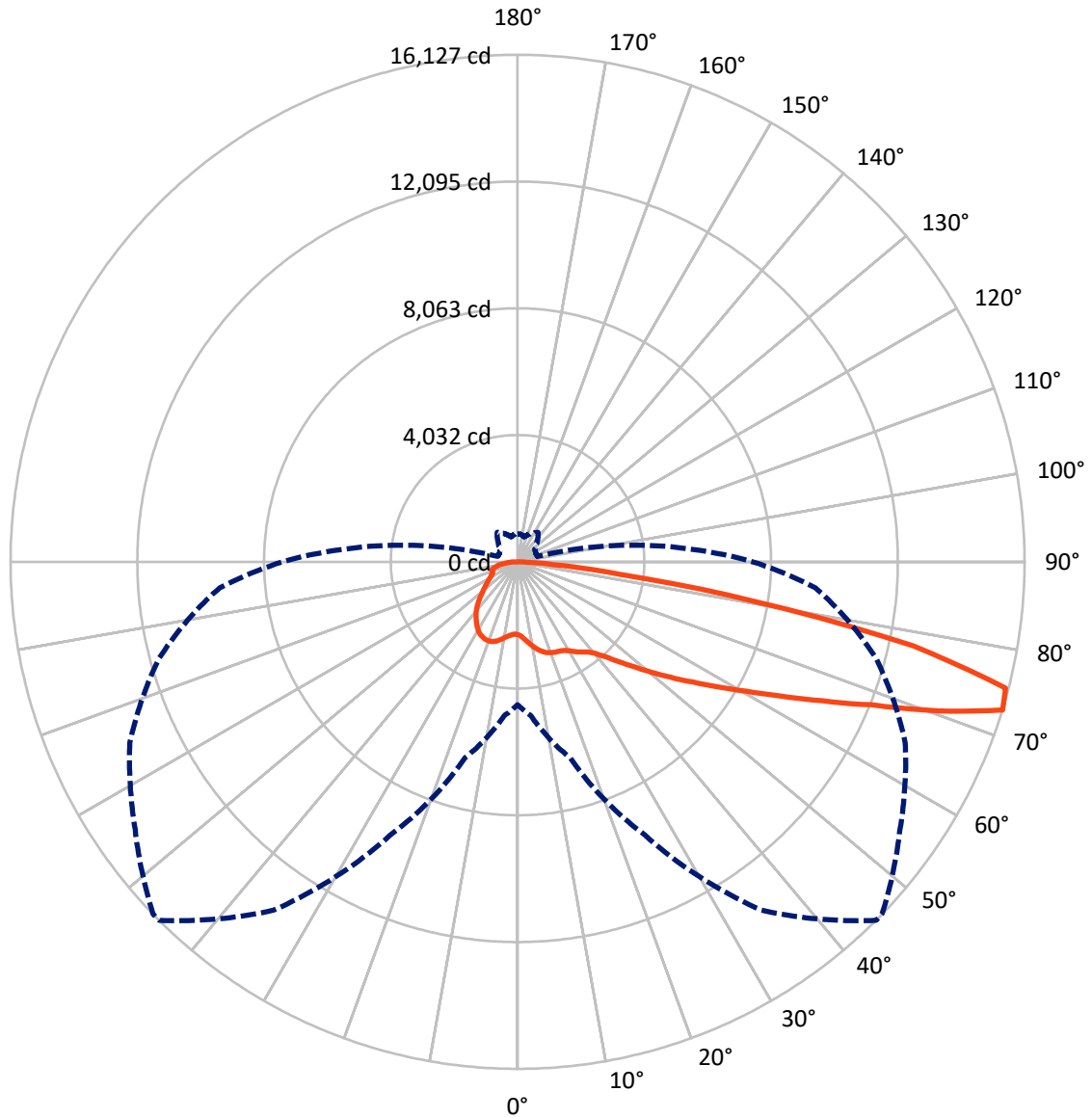
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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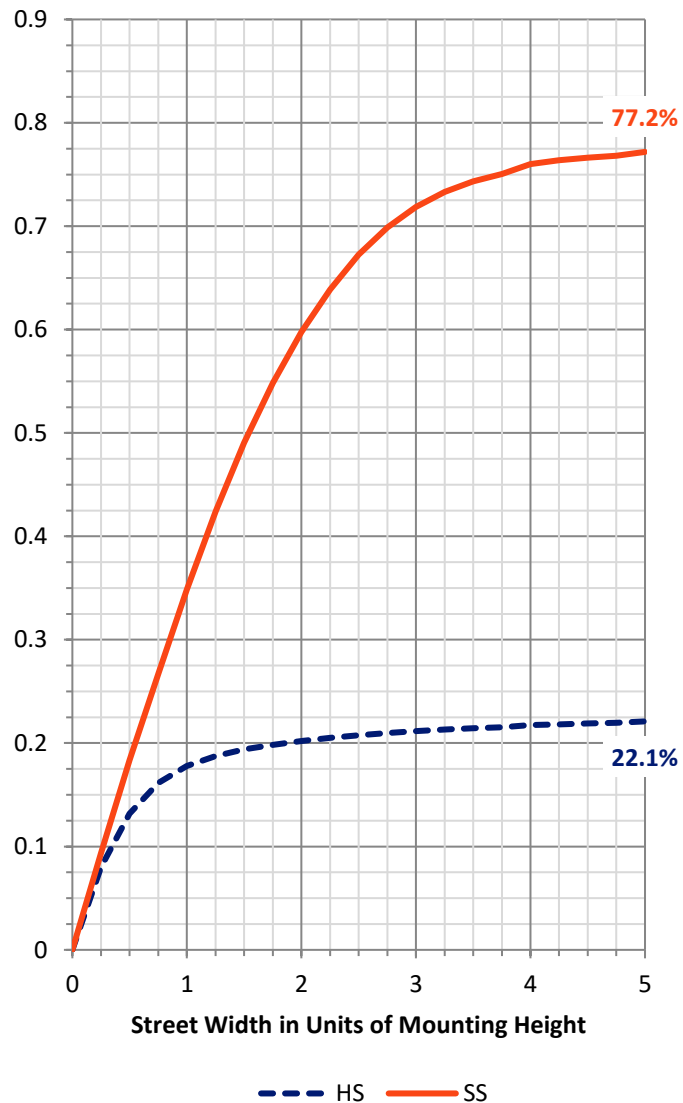
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5196.7	0.0	5196.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17791.0	0.0	17791.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	22987.7	0.0	22987.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	1.0
10°-20°	787.0	3.4
20°-30°	1368.9	6.0
30°-40°	1962.5	8.5
40°-50°	2763.3	12.0
50°-60°	4232.5	18.4
60°-70°	6131.4	26.7
70°-80°	4896.3	21.3
80°-90°	609.8	2.7
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°	22987.7	100.0
0°-180°	22987.7	100.0

Coefficient of Utilization

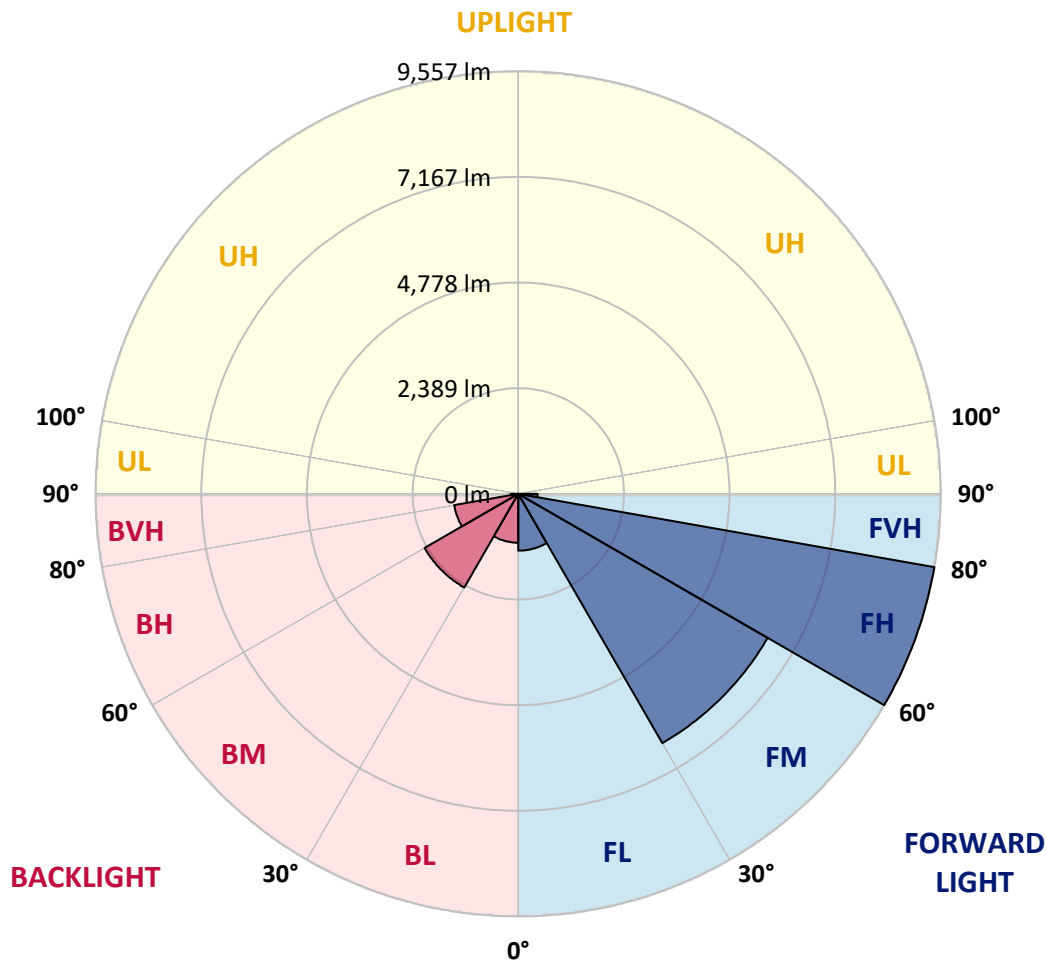


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.5	5.6			
FM (30°-60°)	6511.3	28.3			
FH (60°-80°)	9556.6	41.6			G4/12000
FVH (80°-90°)	437.5	1.9			G3/500
BL (0°-30°)	1106.4	4.8	B3/2500		
BM (30°-60°)	2446.9	10.6	B2/2500		
BH (60°-80°)	1471.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	172.3	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0
2.5°	2409.9	2425.6	2411.0	2397.7	2391.6	2376.0	2374.7	2365.0	2358.9	2342.0	2337.2
5°	2578.2	2598.8	2574.5	2547.8	2523.7	2484.9	2480.1	2452.2	2420.7	2384.4	2363.9
7.5°	2768.3	2786.5	2758.6	2718.6	2676.3	2612.1	2610.9	2560.0	2510.3	2448.6	2413.5
10°	2934.2	2958.4	2920.8	2866.4	2813.1	2740.4	2731.9	2673.8	2610.9	2530.9	2477.6
12.5°	3080.7	3097.7	3061.4	2994.7	2932.9	2860.3	2849.4	2785.2	2715.0	2624.2	2556.4
15°	3197.0	3218.8	3170.3	3098.9	3033.5	2962.0	2952.3	2894.2	2824.0	2728.3	2641.1
17.5°	3273.2	3291.4	3241.8	3161.8	3098.9	3039.5	3032.3	2983.9	2922.1	2825.2	2731.9
20°	3302.3	3321.7	3269.6	3188.5	3130.4	3084.3	3080.7	3045.6	3003.2	2914.8	2820.4
22.5°	3331.4	3349.5	3281.7	3197.0	3146.1	3117.0	3115.8	3092.8	3075.8	3003.2	2911.2
25°	3448.8	3453.7	3362.8	3240.5	3167.9	3142.4	3141.2	3140.1	3147.3	3090.4	3009.3
27.5°	3550.6	3549.4	3471.9	3356.8	3244.2	3190.9	3189.7	3201.8	3224.9	3177.6	3111.0
30°	3699.5	3686.2	3594.2	3474.2	3371.3	3289.0	3281.7	3270.9	3289.0	3251.5	3212.7
32.5°	4015.5	3973.2	3824.3	3611.1	3476.7	3413.8	3404.0	3336.3	3343.4	3320.5	3301.1
35°	4468.5	4412.7	4214.2	3870.3	3607.5	3517.9	3513.0	3427.1	3412.5	3391.9	3399.2
37.5°	5007.3	4938.3	4707.0	4245.7	3832.7	3639.0	3631.7	3554.2	3494.8	3473.1	3514.2
40°	5548.6	5461.5	5270.1	4703.4	4164.6	3841.2	3818.2	3700.8	3632.9	3596.6	3683.7
42.5°	6074.3	6001.6	5838.1	5216.8	4573.9	4136.7	4085.9	3884.7	3833.9	3800.0	3957.4
45°	6539.2	6473.9	6354.0	5765.4	5053.4	4538.7	4489.1	4160.9	4145.2	4145.2	4372.9
47.5°	6917.1	6902.6	6775.4	6324.9	5618.9	4996.5	4910.5	4544.7	4587.2	4652.6	4962.5
50°	7336.0	7296.1	7160.4	6875.9	6283.8	5520.9	5450.5	5015.8	5174.5	5353.7	5815.1
52.5°	7721.1	7743.0	7591.6	7449.9	7034.6	6105.7	5982.2	5571.7	5914.4	6211.1	6814.1
55°	8117.2	8118.3	8076.0	8056.6	7821.7	6752.4	6616.8	6240.1	6785.1	7153.2	7979.1
57.5°	8488.9	8491.3	8554.3	8725.0	8734.7	7498.3	7344.5	7061.1	7752.6	8128.0	9180.4
60°	8820.7	8837.7	9009.6	9409.2	9537.6	8353.2	8208.0	8031.2	8752.9	9130.7	10443.4
62.5°	8932.2	8993.9	9376.6	9944.4	10330.8	9402.0	9259.1	9153.8	9804.0	10155.2	11499.4
65°	8743.2	8884.9	9624.8	10386.5	11147.0	10648.1	10506.4	10391.3	10896.4	11226.9	12366.4
67.5°	8279.4	8462.3	9610.3	10850.3	12137.5	12147.3	12015.3	11745.2	12067.3	12194.4	12648.6
70°	7057.5	7331.2	8763.8	11023.5	13274.7	14197.4	14070.3	13375.1	13235.9	12620.7	11854.2
72.5°	4547.2	4915.3	6453.3	9598.2	13527.7	16126.5	16119.3	14846.5	13605.2	11792.4	9507.3
75°	1659.1	1884.3	2998.3	6024.5	11355.3	16028.4	16075.6	14594.7	12419.7	9109.0	5922.9
77.5°	604.2	661.2	978.5	2315.4	6983.6	12860.5	12958.6	11667.7	8840.1	4571.4	2346.8
80°	317.2	348.8	501.3	898.5	2992.3	7637.6	7791.4	6934.0	4154.8	1376.9	703.6
82.5°	175.6	190.1	281.0	488.0	1347.8	3266.0	3358.0	2739.2	1461.6	583.7	290.6
85°	94.5	100.6	132.0	266.4	658.8	1132.2	1157.7	818.6	582.5	342.7	140.4
87.5°	27.9	33.9	43.6	84.8	257.9	254.3	260.3	162.3	230.1	173.1	46.0
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°	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0	2319.0
2.5°	2329.9	2326.2	2312.9	2306.9	2299.6	2298.5	2304.5	2305.7	2306.9	2308.1	2312.9
5°	2351.7	2339.6	2327.5	2320.2	2322.6	2323.9	2336.0	2344.5	2350.5	2355.3	2357.8
7.5°	2394.1	2384.4	2363.9	2362.6	2366.2	2377.2	2392.9	2412.2	2423.2	2431.6	2434.1
10°	2457.0	2438.9	2414.7	2418.3	2425.6	2441.3	2474.0	2489.7	2508.0	2523.7	2520.1
12.5°	2521.2	2505.5	2477.6	2480.1	2492.2	2520.1	2551.5	2570.9	2583.0	2595.1	2599.9
15°	2604.8	2577.0	2546.7	2546.7	2568.4	2598.8	2613.2	2629.0	2636.3	2649.6	2654.4
17.5°	2690.7	2654.4	2614.5	2612.1	2638.7	2653.2	2661.7	2664.2	2666.5	2681.1	2685.9
20°	2776.7	2736.7	2679.9	2675.0	2681.1	2678.6	2677.5	2675.0	2678.6	2696.9	2704.1
22.5°	2861.5	2815.5	2736.7	2715.0	2698.0	2675.0	2673.8	2672.6	2675.0	2693.2	2705.3
25°	2960.8	2905.2	2799.8	2734.4	2677.5	2645.9	2649.6	2650.9	2653.2	2667.8	2687.1
27.5°	3068.6	3006.8	2857.9	2728.3	2625.4	2603.6	2597.6	2601.1	2609.6	2632.6	2655.7
30°	3176.4	3103.7	2911.2	2704.1	2560.0	2529.7	2510.3	2518.8	2545.5	2568.4	2593.9
32.5°	3274.5	3201.8	2953.5	2650.9	2476.4	2429.2	2403.7	2414.7	2441.3	2449.8	2480.1
35°	3389.5	3307.2	2971.7	2566.1	2385.6	2312.9	2279.1	2263.3	2276.6	2268.1	2294.8
37.5°	3517.9	3431.9	2969.3	2454.7	2279.1	2195.4	2148.3	2089.0	2061.1	2032.0	2050.2
40°	3708.0	3584.4	2940.2	2320.2	2147.1	2070.8	1986.0	1885.5	1822.6	1765.6	1769.3
42.5°	3967.2	3796.4	2886.9	2172.5	1998.1	1926.7	1811.6	1694.1	1594.8	1500.4	1491.9
45°	4353.5	4073.7	2820.4	2015.0	1837.0	1766.8	1642.0	1510.0	1397.5	1276.3	1261.9
47.5°	4910.5	4446.7	2757.4	1835.9	1667.5	1603.3	1490.7	1368.4	1235.2	1117.8	1104.4
50°	5675.8	4981.9	2699.2	1661.4	1500.4	1451.9	1362.3	1237.6	1103.2	1008.7	1002.7
52.5°	6649.5	5709.8	2675.0	1493.1	1344.2	1326.0	1254.6	1138.3	1011.2	931.2	925.2
55°	7767.1	6580.4	2675.0	1332.1	1207.3	1213.4	1163.8	1056.0	945.8	874.3	867.0
57.5°	8907.9	7462.0	2626.6	1183.2	1091.1	1116.5	1085.1	990.6	891.2	817.4	805.3
60°	9959.0	8200.7	2430.4	1047.4	988.2	1028.1	1007.6	926.4	805.3	743.5	733.8
62.5°	10766.7	8617.3	2052.6	939.7	903.4	949.4	938.5	841.6	789.6	764.1	755.6
65°	11171.2	8549.4	1569.4	844.1	831.9	903.4	880.4	876.8	835.6	806.5	796.8
67.5°	10922.9	7965.8	1138.3	773.8	790.8	861.0	949.4	963.9	887.6	830.8	821.0
70°	9834.3	6909.8	847.7	707.2	738.7	862.2	1082.6	1008.7	870.7	804.1	793.1
72.5°	7481.4	5152.7	657.5	636.9	670.9	868.3	1142.0	988.2	822.3	888.9	881.6
75°	4278.3	2828.8	528.0	551.0	586.1	811.4	1111.7	934.9	784.7	816.2	816.2
77.5°	1631.2	1087.4	435.9	466.3	471.1	708.4	1063.2	931.2	747.1	729.0	664.8
80°	565.5	425.1	360.9	370.5	364.5	629.7	1019.7	810.2	611.5	547.3	529.2
82.5°	231.3	212.0	285.8	273.7	259.1	489.2	823.5	662.4	500.1	442.0	437.2
85°	100.6	134.4	188.9	165.9	150.2	339.1	660.0	560.7	422.6	364.5	363.3
87.5°	20.6	50.8	79.9	75.0	77.5	226.4	468.6	398.4	299.1	224.1	175.6
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)