

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: P969738

Luminaire Tested: **NAV-SB6A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22831.9 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

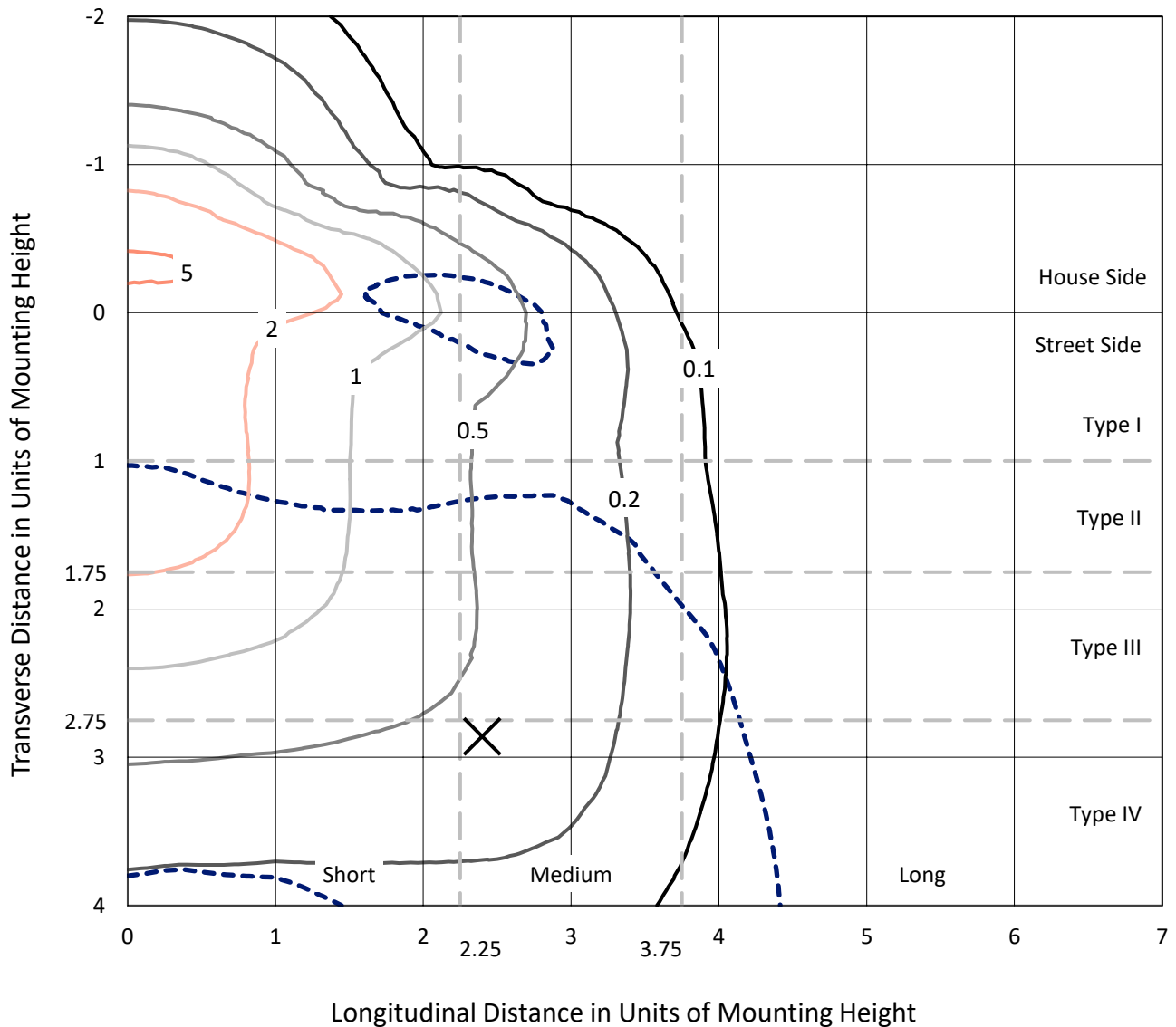
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969738
 CATALOG NUMBER: NAV-SB6A-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

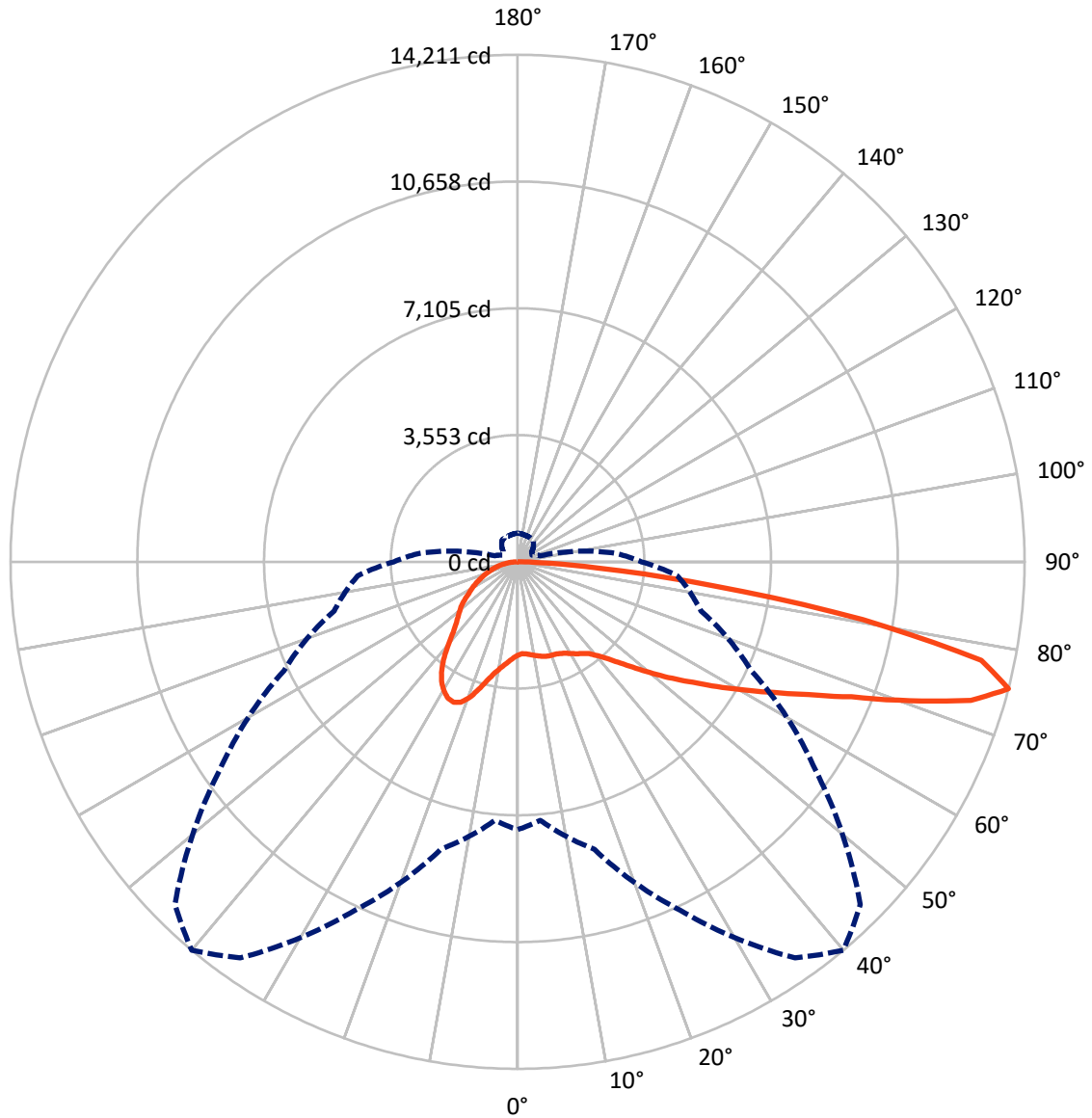
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P969738
CATALOG NUMBER: NAV-SB6A-722-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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 CATALOG NUMBER: NAV-SB6A-722-U-SL4

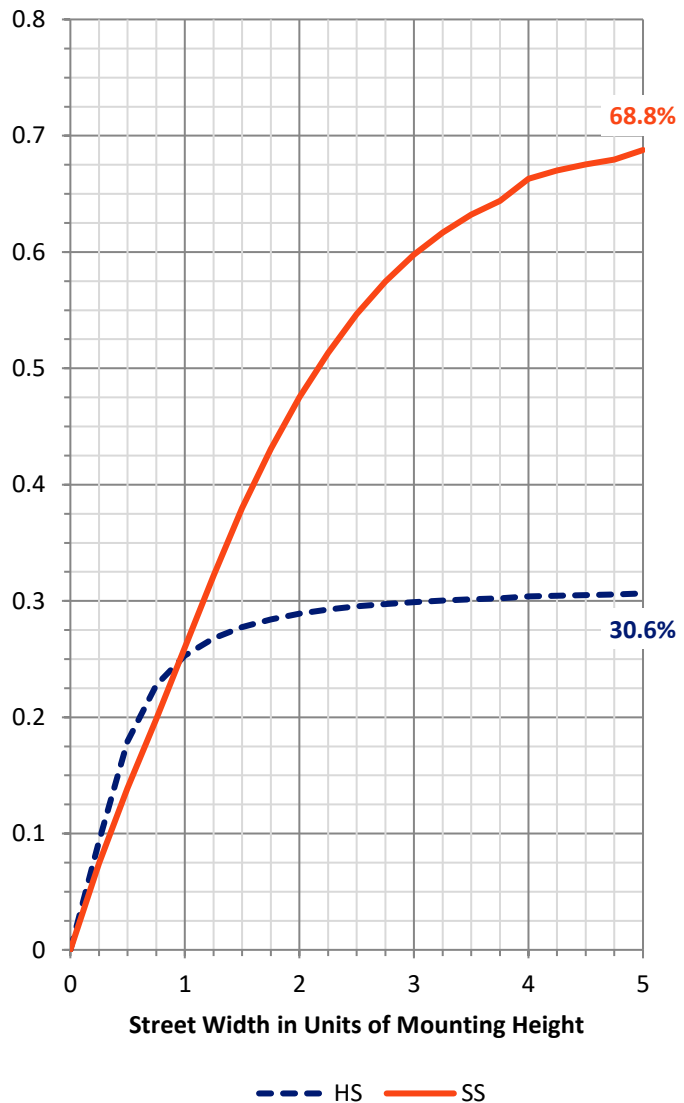
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7074.1	0.0	7074.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15757.8	0.0	15757.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	22831.9	0.0	22831.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	1.1
10°-20°	875.0	3.8
20°-30°	1597.7	7.0
30°-40°	2265.9	9.9
40°-50°	3059.7	13.4
50°-60°	4116.1	18.0
60°-70°	5224.3	22.9
70°-80°	4741.4	20.8
80°-90°	691.1	3.0
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°	22831.9	100.0
0°-180°	22831.9	100.0

Coefficient of Utilization

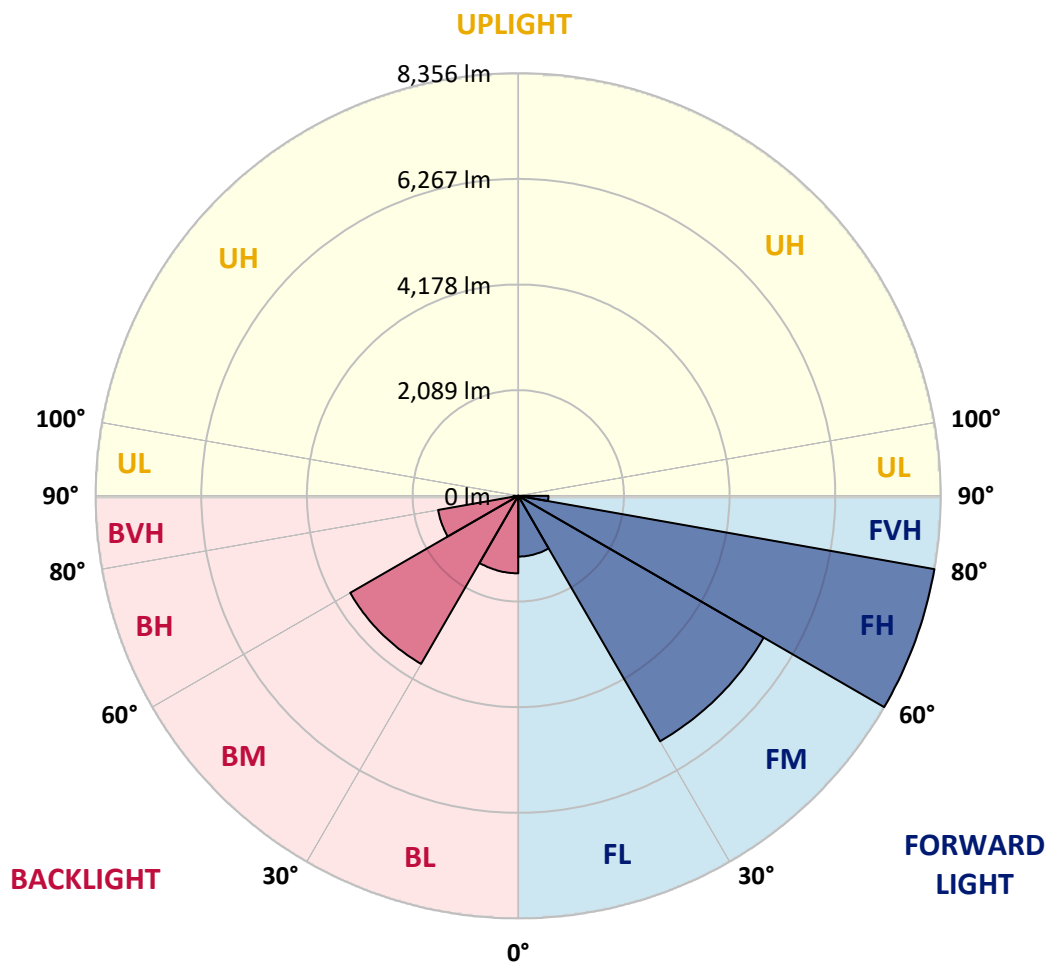


REPORT NUMBER: P969738
 CATALOG NUMBER: NAV-SB6A-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.0	5.3			
FM (30°-60°)	5604.7	24.5			
FH (60°-80°)	8356.1	36.6			G4/12000
FVH (80°-90°)	596.0	2.6			G4/750
BL (0°-30°)	1532.3	6.7	B3/2500		
BM (30°-60°)	3837.1	16.8	B3/5000		
BH (60°-80°)	1609.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	95.2	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 IV Medium



REPORT NUMBER: P969738
 CATALOG NUMBER: NAV-SB6A-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9
2.5°	2570.9	2585.5	2581.8	2577.0	2577.0	2578.2	2577.0	2585.5	2593.9	2602.4	2615.7
5°	2597.6	2612.1	2604.8	2598.8	2593.9	2592.7	2589.0	2587.8	2592.7	2603.6	2621.7
7.5°	2649.6	2664.2	2653.2	2642.3	2632.6	2627.8	2623.0	2615.7	2612.1	2618.2	2643.6
10°	2707.7	2722.3	2709.0	2689.6	2673.8	2667.8	2663.0	2655.7	2650.9	2654.4	2682.3
12.5°	2765.9	2780.4	2762.3	2735.6	2715.0	2711.3	2705.3	2702.9	2701.7	2700.5	2728.3
15°	2820.4	2832.5	2809.4	2778.0	2756.1	2750.1	2744.0	2747.7	2753.8	2761.0	2792.5
17.5°	2862.7	2874.8	2840.9	2799.8	2779.2	2776.7	2773.1	2785.2	2802.1	2820.4	2859.1
20°	2901.5	2913.6	2870.0	2814.3	2790.0	2790.0	2791.3	2816.7	2840.9	2867.5	2920.8
22.5°	2956.0	2965.6	2912.4	2836.1	2801.0	2803.4	2813.1	2838.5	2868.8	2905.2	2979.0
25°	3037.1	3044.4	2979.0	2877.3	2837.3	2844.6	2853.1	2865.2	2894.2	2936.6	3035.9
27.5°	3167.9	3173.9	3088.0	2950.0	2889.4	2901.5	2913.6	2905.2	2918.5	2954.8	3082.0
30°	3352.0	3355.6	3246.6	3063.7	2977.8	2983.9	2986.2	2951.2	2925.7	2954.8	3114.7
32.5°	3570.0	3568.7	3439.2	3201.8	3078.3	3072.2	3051.6	2982.6	2923.3	2948.7	3143.7
35°	3907.8	3894.5	3727.4	3395.5	3192.2	3154.5	3106.2	3017.7	2935.4	2942.7	3169.1
37.5°	4467.3	4426.1	4194.8	3712.9	3361.7	3266.0	3194.5	3074.7	2962.0	2940.2	3199.4
40°	5098.1	5046.1	4791.8	4147.6	3616.0	3462.1	3347.1	3155.8	3005.6	2951.2	3244.2
42.5°	5846.6	5772.7	5499.0	4659.9	3938.0	3715.2	3542.1	3258.7	3069.8	2986.2	3304.7
45°	6765.7	6667.6	6280.1	5237.4	4343.7	4047.1	3815.8	3414.9	3167.9	3054.1	3395.5
47.5°	7694.5	7718.8	7167.7	5898.7	4830.5	4456.4	4158.5	3649.8	3310.7	3163.0	3542.1
50°	8681.4	8698.5	8050.6	6631.2	5382.8	4919.0	4543.5	3912.6	3509.4	3318.0	3761.2
52.5°	9451.6	9454.1	8852.2	7397.8	5958.0	5427.6	4959.0	4213.0	3739.5	3524.0	4053.2
55°	9933.6	9927.5	9414.1	8123.2	6619.1	5961.6	5419.1	4554.5	4020.5	3766.2	4420.0
57.5°	10283.6	10265.4	9801.6	8746.8	7323.9	6592.5	5939.8	4941.9	4352.3	4054.3	4903.2
60°	10416.8	10405.9	10064.4	9285.8	8065.1	7290.0	6540.4	5375.5	4728.8	4394.6	5524.4
62.5°	10467.6	10488.2	10322.4	9807.6	8858.3	8062.6	7200.4	5893.7	5152.7	4779.7	6179.6
65°	10646.9	10684.4	10650.5	10490.7	9754.4	8967.2	8076.0	6510.2	5615.3	5192.6	6863.8
67.5°	11001.6	11039.2	11053.7	11308.0	10849.1	10094.7	9168.3	7277.9	6156.6	5621.3	7378.5
70°	10993.2	10982.3	11239.0	11958.4	12219.9	11655.6	10640.8	8222.6	6802.0	5977.4	7443.9
72.5°	10006.3	9919.0	10525.7	11951.1	13360.7	13285.5	12439.1	9440.8	7359.1	6021.0	6459.3
75°	7506.8	7274.3	8346.1	10770.4	13550.8	14210.8	13582.3	10196.4	7227.1	5319.7	4495.1
77.5°	3210.3	2976.6	4239.6	7973.1	12127.9	13284.4	12533.6	8895.8	5769.1	3517.9	2207.6
80°	840.4	839.2	1281.2	3614.8	8248.0	9810.1	8606.4	5744.8	3296.3	1257.0	609.2
82.5°	347.6	339.1	471.1	1405.9	4030.1	5505.1	4492.7	2562.4	1190.4	340.3	202.2
85°	129.6	128.3	228.9	485.6	1421.7	2270.6	1643.3	655.2	296.7	165.9	90.8
87.5°	36.3	35.2	49.6	168.3	346.3	525.5	281.0	107.7	83.5	65.4	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969738
 CATALOG NUMBER: NAV-SB6A-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9	2610.9
2.5°	2619.3	2625.4	2636.3	2644.8	2655.7	2667.8	2684.7	2695.6	2706.5	2713.8	2709.0
5°	2630.3	2643.6	2671.4	2699.2	2731.9	2762.3	2797.3	2822.7	2843.4	2849.4	2851.9
7.5°	2654.4	2676.3	2723.4	2770.7	2822.7	2872.5	2923.3	2966.9	3002.0	3015.3	3016.6
10°	2696.9	2725.9	2792.5	2859.1	2928.1	3004.4	3069.8	3132.8	3182.4	3203.0	3204.3
12.5°	2750.1	2786.5	2873.6	2965.6	3061.4	3166.7	3251.5	3329.0	3390.7	3418.6	3418.6
15°	2819.2	2866.4	2977.8	3101.3	3241.8	3388.3	3496.1	3582.1	3651.0	3685.0	3682.5
17.5°	2894.2	2957.2	3097.7	3284.2	3485.2	3677.7	3803.7	3866.6	3938.0	3970.7	3969.5
20°	2966.9	3044.4	3245.4	3516.7	3784.3	3989.0	4090.7	4107.6	4112.5	4116.1	4125.8
22.5°	3042.0	3146.1	3430.7	3809.7	4096.7	4238.4	4252.9	4180.3	4078.6	4031.3	4044.6
25°	3124.3	3262.4	3672.9	4133.0	4365.6	4382.5	4271.1	4094.3	3901.8	3813.3	3826.6
27.5°	3204.3	3396.7	3963.5	4441.8	4559.3	4410.4	4170.6	3919.9	3687.4	3594.2	3605.0
30°	3284.2	3550.6	4284.4	4711.9	4647.8	4341.3	4012.0	3732.2	3498.5	3400.4	3411.3
32.5°	3365.3	3729.8	4653.8	4906.9	4632.0	4194.8	3814.5	3521.5	3315.7	3212.7	3226.0
35°	3457.3	3950.1	5003.7	5013.4	4526.6	3979.3	3554.2	3269.6	3090.4	3008.1	3026.2
37.5°	3577.2	4230.0	5312.6	5040.0	4342.5	3663.1	3230.9	2971.7	2824.0	2786.5	2813.1
40°	3726.2	4566.6	5548.6	4997.7	4070.1	3279.3	2877.3	2670.2	2586.6	2595.1	2624.2
42.5°	3919.9	4943.2	5714.6	4888.7	3691.0	2883.3	2567.2	2475.3	2515.1	2549.1	2580.5
45°	4171.8	5334.3	5817.5	4703.4	3262.4	2547.8	2384.4	2406.2	2436.4	2440.1	2464.3
47.5°	4493.9	5730.4	5885.3	4423.7	2825.2	2311.8	2268.1	2273.0	2266.9	2241.5	2260.8
50°	4895.9	6115.5	5945.9	4053.2	2453.4	2164.0	2105.9	2089.0	2005.4	1923.0	1934.0
52.5°	5353.7	6469.0	5971.3	3592.9	2164.0	2040.5	1946.1	1839.5	1683.3	1657.8	1666.3
55°	5862.3	6796.0	5905.9	3027.4	1920.6	1881.9	1738.9	1610.6	1593.7	1571.8	1575.4
57.5°	6470.2	7148.4	5772.7	2396.6	1671.2	1696.6	1557.3	1571.8	1541.6	1507.7	1501.6
60°	7135.0	7512.8	5539.0	1821.3	1413.2	1465.2	1510.1	1508.9	1500.4	1472.5	1462.9
62.5°	7733.3	7752.7	5078.8	1395.0	1186.7	1286.1	1408.4	1407.1	1399.8	1384.2	1378.1
65°	8089.3	7716.3	4311.0	1098.4	1000.3	1138.3	1270.3	1280.0	1281.2	1280.0	1280.0
67.5°	8026.4	7291.2	3257.6	874.3	846.4	988.2	1133.4	1146.8	1156.5	1158.9	1161.3
70°	7314.3	6357.6	2124.0	697.5	709.6	856.2	1003.9	1017.2	1025.7	1035.4	1040.3
72.5°	5701.3	4674.3	1215.9	564.3	589.8	742.3	875.6	891.2	896.2	914.3	921.6
75°	3474.2	2748.9	656.3	444.4	484.4	634.6	748.4	766.5	775.0	796.8	799.2
77.5°	1651.8	1190.4	374.2	346.3	389.9	518.3	632.1	652.7	629.7	641.9	632.1
80°	558.2	442.0	236.2	264.0	297.9	404.5	506.1	526.7	478.4	475.9	471.1
82.5°	195.0	179.3	150.2	175.6	192.5	289.5	382.6	409.3	356.0	354.9	337.8
85°	76.3	72.7	83.5	95.6	115.0	178.0	251.8	265.2	219.1	176.8	174.4
87.5°	15.8	16.9	20.6	21.8	35.2	61.8	90.8	111.4	88.4	75.0	69.0
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)