

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: P966595

Luminaire Tested: **NAV-SB4C-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966595
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-SB4C-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25364.6 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

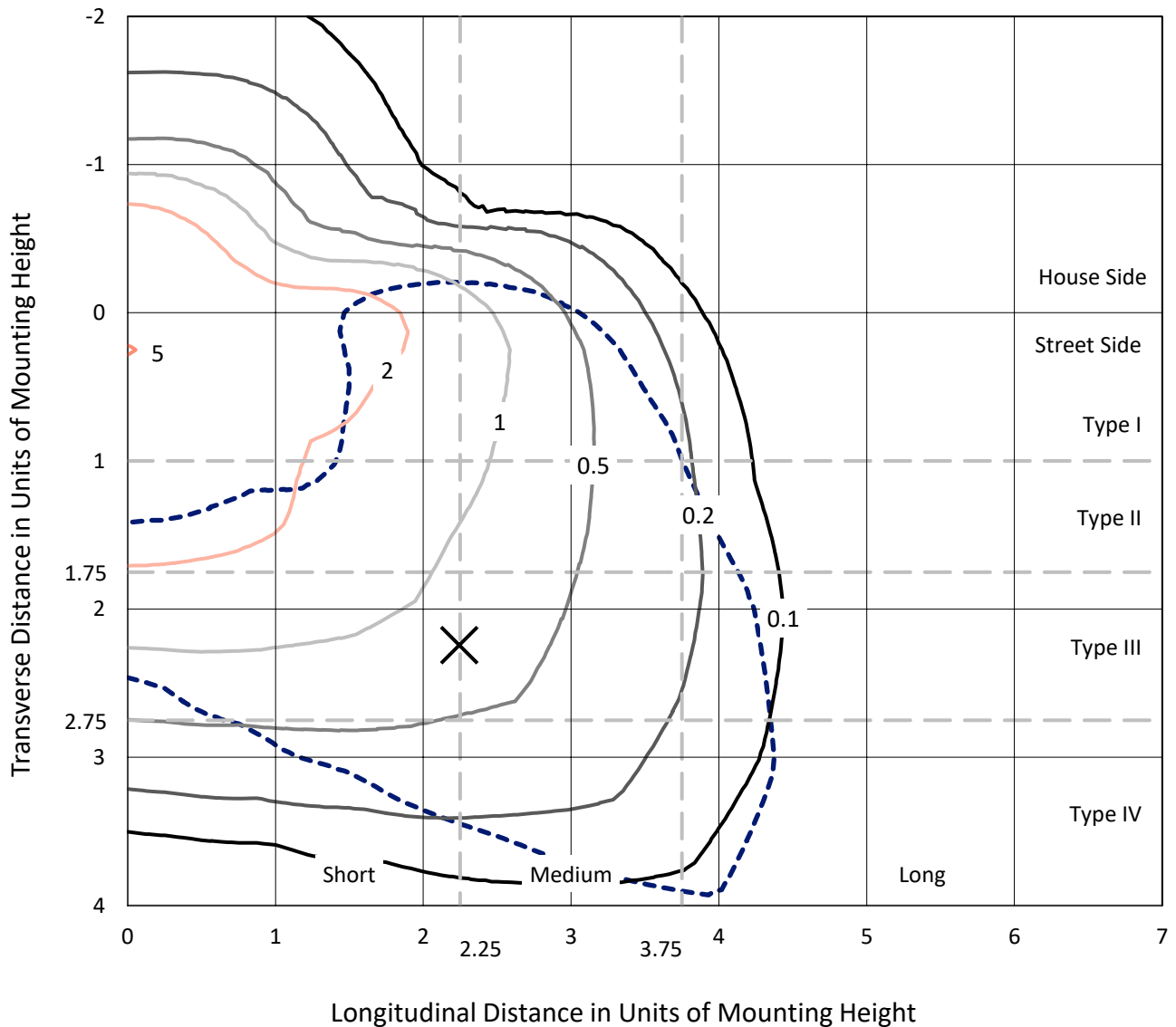
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

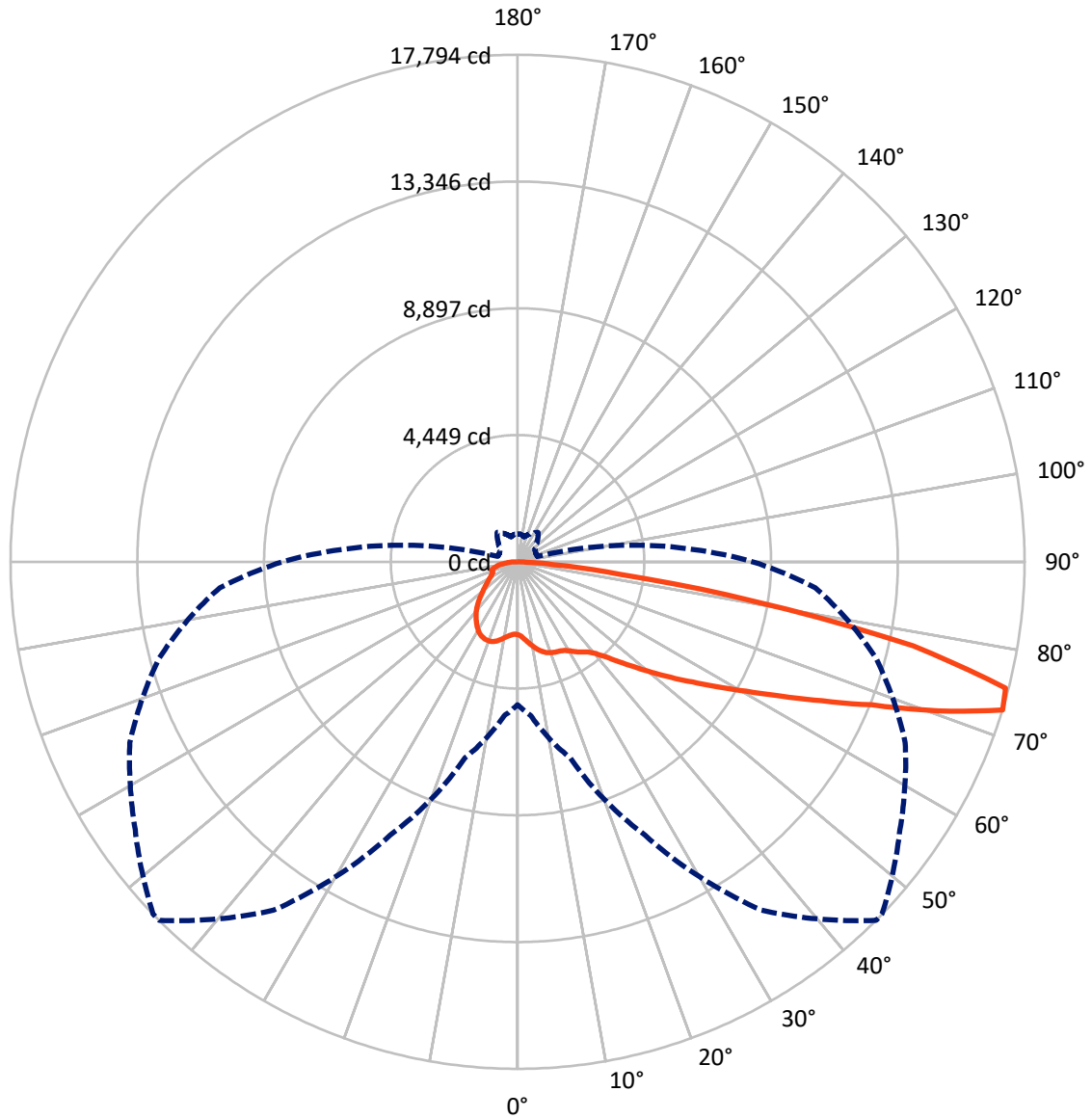
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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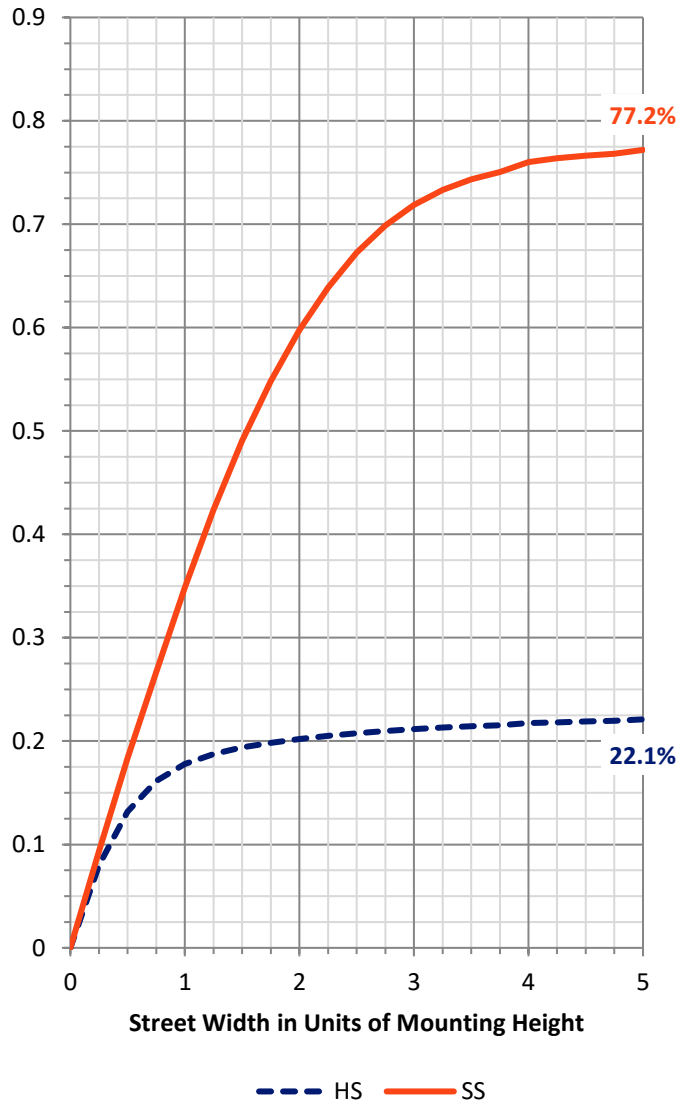
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5734.1	0.0	5734.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19630.6	0.0	19630.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	25364.6	0.0	25364.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	1.0
10°-20°	868.3	3.4
20°-30°	1510.5	6.0
30°-40°	2165.4	8.5
40°-50°	3049.0	12.0
50°-60°	4670.2	18.4
60°-70°	6765.4	26.7
70°-80°	5402.6	21.3
80°-90°	672.9	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°	25364.6	100.0
0°-180°	25364.6	100.0

Coefficient of Utilization

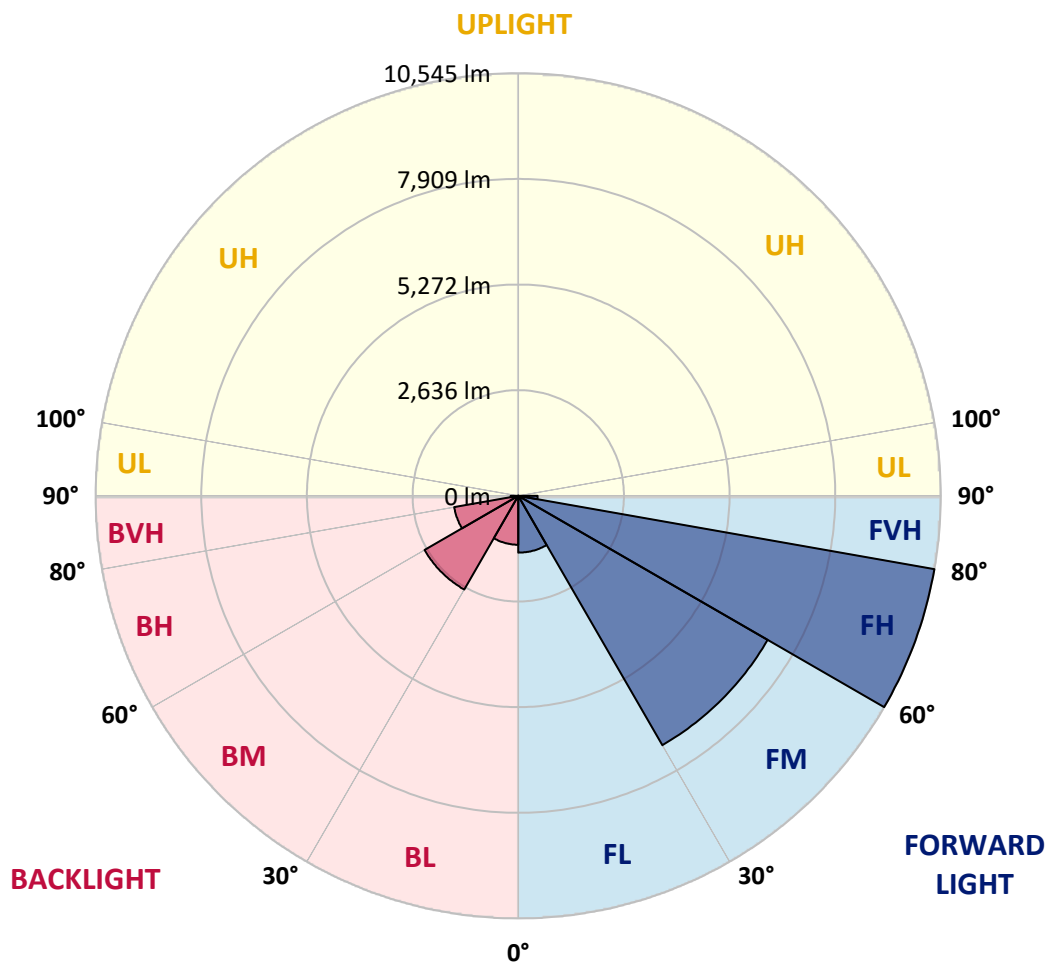


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.4	5.6			
FM (30°-60°)	7184.6	28.3			
FH (60°-80°)	10544.8	41.6			G4/12000
FVH (80°-90°)	482.7	1.9			G3/500
BL (0°-30°)	1220.8	4.8	B3/2500		
BM (30°-60°)	2699.9	10.6	B3/5000		
BH (60°-80°)	1623.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	190.1	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°	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8
2.5°	2659.1	2676.4	2660.4	2645.6	2639.0	2621.6	2620.3	2609.5	2602.9	2584.2	2578.8
5°	2844.8	2867.4	2840.7	2811.4	2784.6	2741.9	2736.5	2705.8	2671.0	2631.0	2608.2
7.5°	3054.5	3074.6	3043.8	2999.8	2953.0	2882.2	2880.9	2824.7	2770.0	2701.8	2663.1
10°	3237.6	3264.3	3222.9	3162.7	3104.0	3023.7	3014.4	2950.3	2880.9	2792.6	2733.9
12.5°	3399.3	3418.0	3377.9	3304.4	3236.2	3156.1	3144.1	3073.3	2995.8	2895.5	2820.7
15°	3527.5	3551.6	3498.1	3419.3	3347.1	3268.3	3257.7	3193.5	3116.0	3010.4	2914.2
17.5°	3611.7	3631.8	3576.9	3488.8	3419.3	3353.8	3345.8	3292.4	3224.2	3117.3	3014.4
20°	3643.8	3665.2	3607.7	3518.2	3454.0	3403.3	3399.3	3360.5	3313.7	3216.2	3112.0
22.5°	3675.9	3695.9	3621.0	3527.5	3471.4	3439.4	3438.1	3412.6	3393.9	3313.7	3212.1
25°	3805.4	3810.8	3710.6	3575.6	3495.5	3467.4	3466.0	3464.7	3472.8	3410.0	3320.4
27.5°	3917.7	3916.3	3830.8	3703.9	3579.6	3520.9	3519.5	3532.9	3558.3	3506.1	3432.6
30°	4082.1	4067.4	3965.8	3833.5	3719.9	3629.1	3621.0	3609.0	3629.1	3587.7	3544.9
32.5°	4430.8	4384.0	4219.7	3984.5	3836.2	3766.7	3756.0	3681.2	3689.2	3663.9	3642.4
35°	4930.6	4869.1	4649.9	4270.5	3980.5	3881.7	3876.2	3781.4	3765.3	3742.7	3750.7
37.5°	5525.2	5449.0	5193.8	4684.7	4229.0	4015.2	4007.2	3921.8	3856.3	3832.2	3877.6
40°	6122.4	6026.2	5815.1	5189.8	4595.2	4238.4	4213.0	4083.4	4008.6	3968.5	4064.6
42.5°	6702.3	6622.1	6441.7	5756.3	5046.8	4564.4	4508.3	4286.4	4230.4	4193.0	4366.7
45°	7215.4	7143.2	7011.0	6361.6	5575.9	5008.0	4953.2	4591.2	4573.8	4573.8	4825.0
47.5°	7632.4	7616.3	7475.9	6978.9	6199.9	5513.1	5418.3	5014.7	5061.4	5133.6	5475.7
50°	8094.6	8050.6	7900.9	7586.8	6933.5	6091.7	6014.2	5534.5	5709.6	5907.3	6416.4
52.5°	8519.5	8543.6	8376.6	8220.2	7761.9	6737.0	6600.8	6147.8	6526.0	6853.4	7518.7
55°	8956.4	8957.8	8911.0	8889.6	8630.4	7450.6	7301.0	6885.3	7486.7	7892.9	8804.1
57.5°	9366.7	9369.3	9438.8	9627.2	9638.0	8273.7	8104.0	7791.3	8554.2	8968.4	10129.7
60°	9732.8	9751.5	9941.3	10382.2	10523.8	9217.0	9056.7	8861.6	9658.0	10074.8	11523.3
62.5°	9855.7	9923.8	10346.1	10972.7	11399.0	10374.1	10216.5	10100.2	10817.7	11205.3	12688.5
65°	9647.3	9803.6	10620.0	11460.5	12299.6	11749.1	11592.7	11465.9	12023.0	12387.8	13645.1
67.5°	9135.5	9337.2	10604.0	11972.2	13392.6	13403.3	13257.7	12959.7	13315.2	13455.4	13956.5
70°	7787.3	8089.3	9670.0	12163.4	14647.2	15665.5	15525.2	14758.2	14604.5	13925.8	13079.9
72.5°	5017.4	5423.6	7120.6	10590.6	14926.6	17794.0	17786.0	16381.7	15012.0	13011.8	10490.4
75°	1830.5	2079.1	3308.4	6647.5	12529.4	17685.8	17737.9	16103.8	13703.9	10050.8	6535.3
77.5°	666.8	729.6	1079.6	2554.8	7705.7	14190.3	14298.5	12874.2	9754.2	5044.1	2589.6
80°	350.0	384.8	553.2	991.5	3301.7	8427.3	8597.0	7651.0	4584.4	1519.3	776.3
82.5°	193.7	209.8	310.0	538.4	1487.2	3603.7	3705.3	3022.4	1612.7	644.0	320.7
85°	104.2	110.9	145.7	294.0	726.9	1249.4	1277.4	903.2	642.7	378.1	155.0
87.5°	30.7	37.4	48.1	93.6	284.6	280.6	287.3	179.1	253.9	191.1	50.7
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°	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8	2558.8
2.5°	2570.8	2566.8	2552.1	2545.5	2537.4	2536.1	2542.7	2544.2	2545.5	2546.8	2552.1
5°	2594.9	2581.6	2568.1	2560.1	2562.8	2564.1	2577.5	2586.9	2593.6	2598.9	2601.6
7.5°	2641.6	2631.0	2608.2	2606.9	2610.9	2623.0	2640.3	2661.7	2673.7	2683.0	2685.7
10°	2711.1	2691.0	2664.4	2668.4	2676.4	2693.8	2729.9	2747.2	2767.3	2784.6	2780.6
12.5°	2782.0	2764.5	2733.9	2736.5	2749.9	2780.6	2815.4	2836.7	2850.1	2863.4	2868.8
15°	2874.1	2843.5	2810.0	2810.0	2834.0	2867.4	2883.5	2900.9	2908.8	2923.6	2928.9
17.5°	2969.0	2928.9	2884.9	2882.2	2911.5	2927.6	2936.9	2939.6	2942.3	2958.4	2963.7
20°	3063.8	3019.8	2957.0	2951.6	2958.4	2955.7	2954.4	2951.6	2955.7	2975.7	2983.7
22.5°	3157.4	3106.7	3019.8	2995.8	2977.0	2951.6	2950.3	2948.9	2951.6	2971.7	2985.0
25°	3267.0	3205.5	3089.2	3017.1	2954.4	2919.6	2923.6	2924.9	2927.6	2943.6	2965.0
27.5°	3385.9	3317.7	3153.4	3010.4	2896.9	2872.8	2866.1	2870.1	2879.5	2904.8	2930.3
30°	3504.8	3424.6	3212.1	2983.7	2824.7	2791.3	2770.0	2779.3	2808.7	2834.0	2862.1
32.5°	3613.0	3532.9	3259.0	2924.9	2732.5	2680.4	2652.3	2664.4	2693.8	2703.1	2736.5
35°	3740.0	3649.1	3279.0	2831.4	2632.3	2552.1	2514.7	2497.3	2512.1	2502.6	2532.1
37.5°	3881.7	3786.8	3276.3	2708.5	2514.7	2422.5	2370.4	2304.9	2274.2	2242.1	2262.2
40°	4091.4	3955.1	3244.2	2560.1	2369.1	2284.9	2191.3	2080.4	2010.9	1948.1	1952.2
42.5°	4377.4	4189.0	3185.5	2397.2	2204.7	2125.8	1999.0	1869.3	1759.7	1655.6	1646.2
45°	4803.6	4494.9	3112.0	2223.4	2027.0	1949.4	1811.9	1666.2	1542.0	1408.4	1392.3
47.5°	5418.3	4906.5	3042.5	2025.7	1840.0	1769.2	1644.8	1509.9	1362.9	1233.3	1218.6
50°	6262.7	5497.1	2978.3	1833.2	1655.6	1602.1	1503.2	1365.6	1217.3	1113.0	1106.4
52.5°	7337.1	6300.2	2951.6	1647.5	1483.2	1463.1	1384.3	1256.0	1115.7	1027.6	1020.8
55°	8570.3	7260.9	2951.6	1469.8	1332.2	1338.9	1284.1	1165.1	1043.6	964.7	956.7
57.5°	9829.0	8233.6	2898.2	1305.4	1203.9	1231.9	1197.2	1093.0	983.4	901.9	888.6
60°	10988.8	9048.7	2681.7	1155.8	1090.3	1134.5	1111.7	1022.2	888.6	820.4	809.7
62.5°	11880.1	9508.3	2264.8	1036.9	996.8	1047.6	1035.6	928.6	871.1	843.2	833.7
65°	12326.3	9433.5	1731.7	931.3	918.0	996.8	971.4	967.4	922.0	889.9	879.2
67.5°	12052.5	8789.5	1256.0	853.8	872.5	950.1	1047.6	1063.6	979.4	916.7	905.9
70°	10851.2	7624.3	935.3	780.3	815.1	951.4	1194.5	1113.0	960.7	887.2	875.2
72.5°	8254.9	5685.5	725.6	702.8	740.3	958.1	1260.0	1090.3	907.2	980.7	972.7
75°	4720.7	3121.3	582.6	607.9	646.7	895.2	1226.6	1031.6	865.8	900.6	900.6
77.5°	1799.8	1199.9	481.0	514.4	519.8	781.7	1173.2	1027.6	824.4	804.4	733.6
80°	624.0	469.0	398.2	408.9	402.2	694.8	1125.0	893.9	674.8	603.9	583.9
82.5°	255.2	233.8	315.3	302.0	286.0	539.9	908.6	730.9	551.9	487.7	482.4
85°	110.9	148.3	208.5	183.1	165.6	374.1	728.3	618.7	466.4	402.2	400.9
87.5°	22.8	56.2	88.1	82.8	85.5	249.9	517.1	439.6	330.0	247.2	193.7
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)