

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: P966593

Luminaire Tested: **NAV-SB4C-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25118.6 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

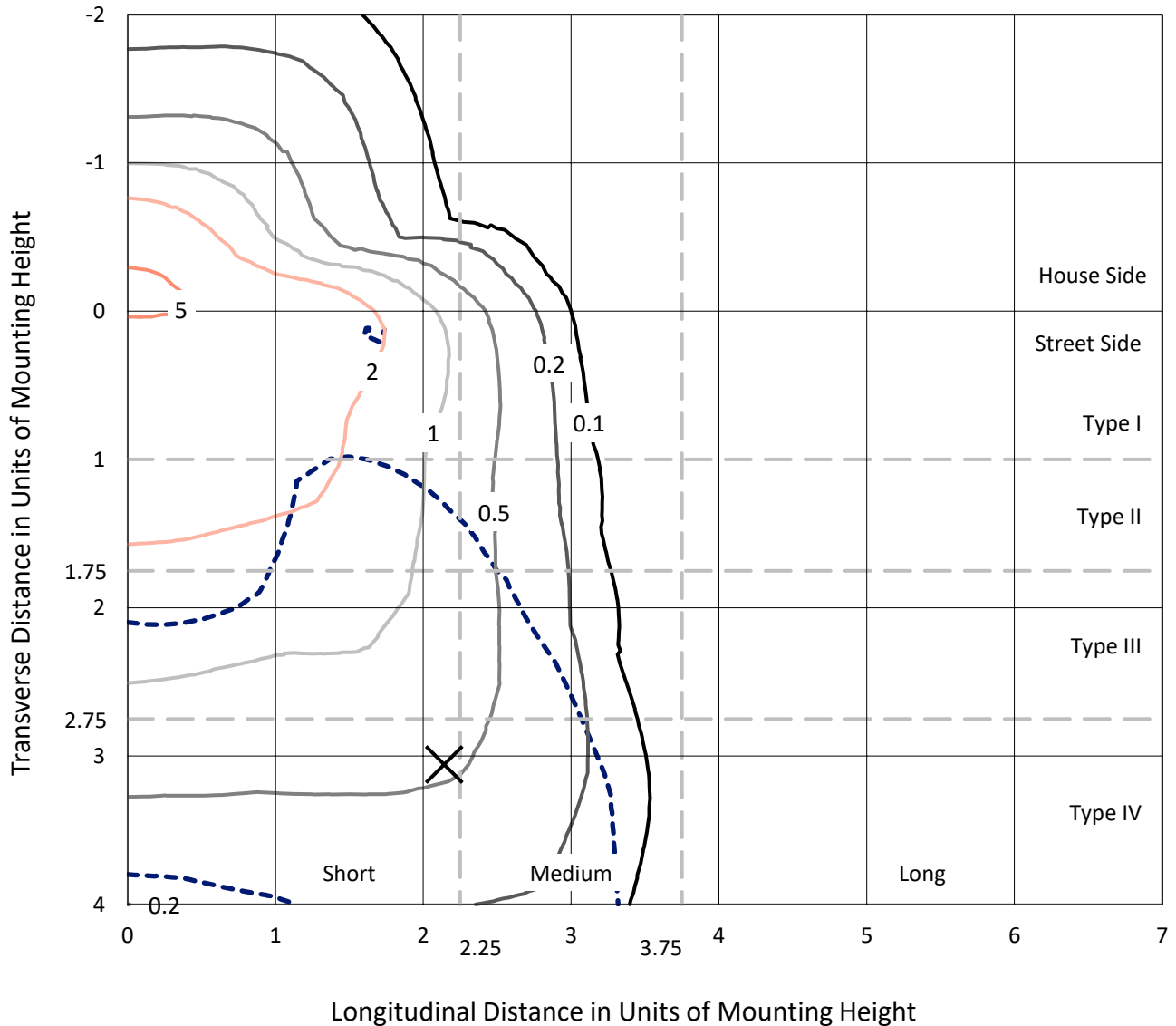
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

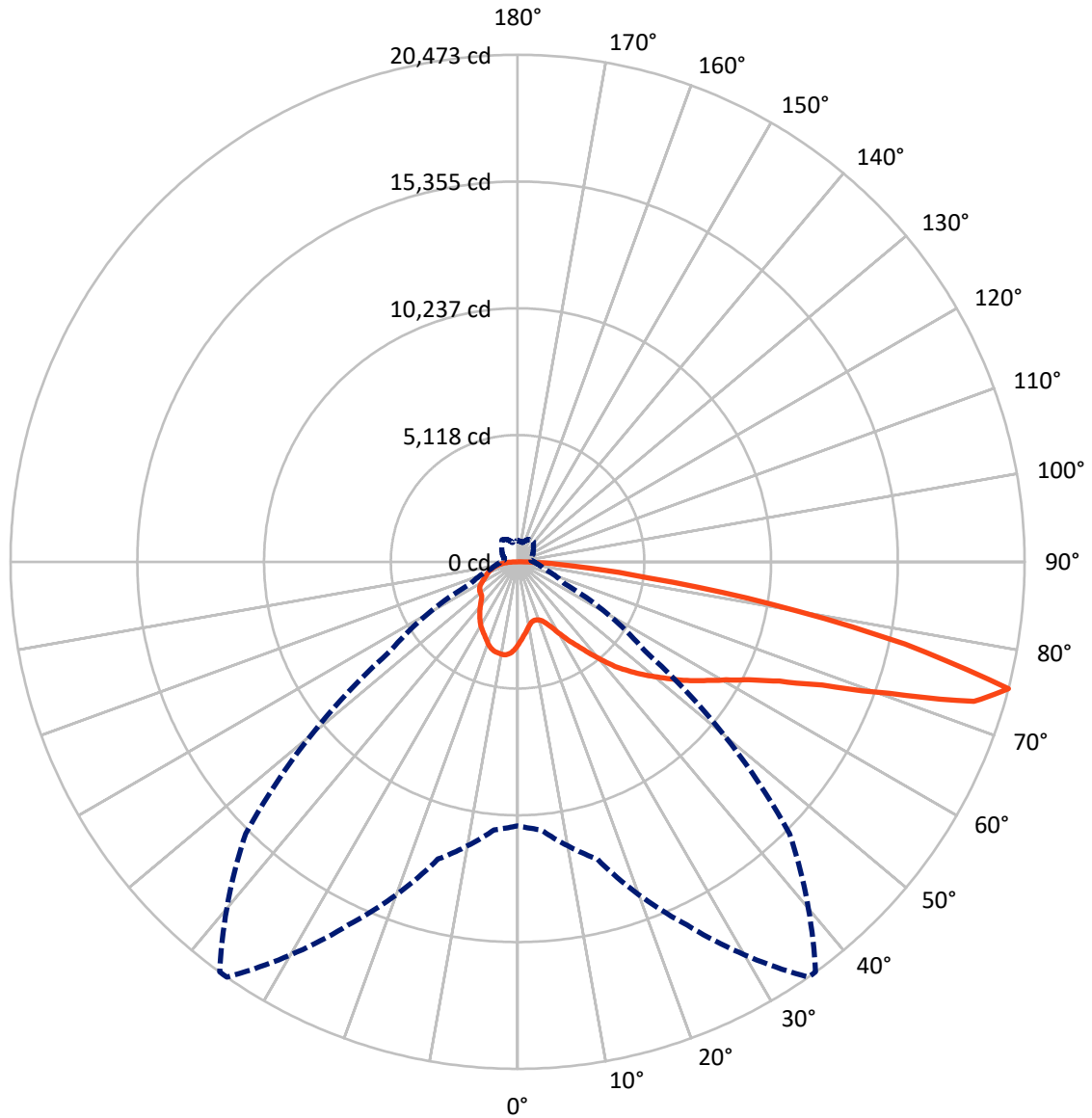
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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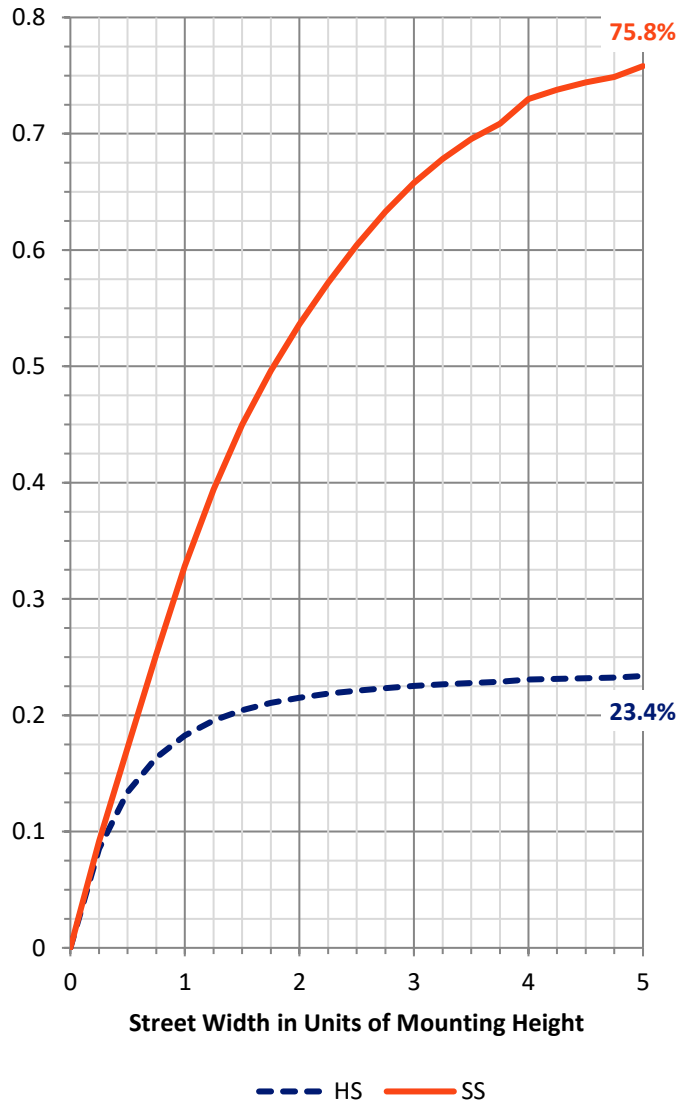
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5977.6	0.0	5977.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	19141.0	0.0	19141.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	25118.6	0.0	25118.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.3
10°-20°	914.1	3.6
20°-30°	1535.0	6.1
30°-40°	2385.7	9.5
40°-50°	3541.0	14.1
50°-60°	4888.5	19.5
60°-70°	5930.9	23.6
70°-80°	4901.5	19.5
80°-90°	705.0	2.8
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°	25118.6	100.0
0°-180°	25118.6	100.0

Coefficient of Utilization

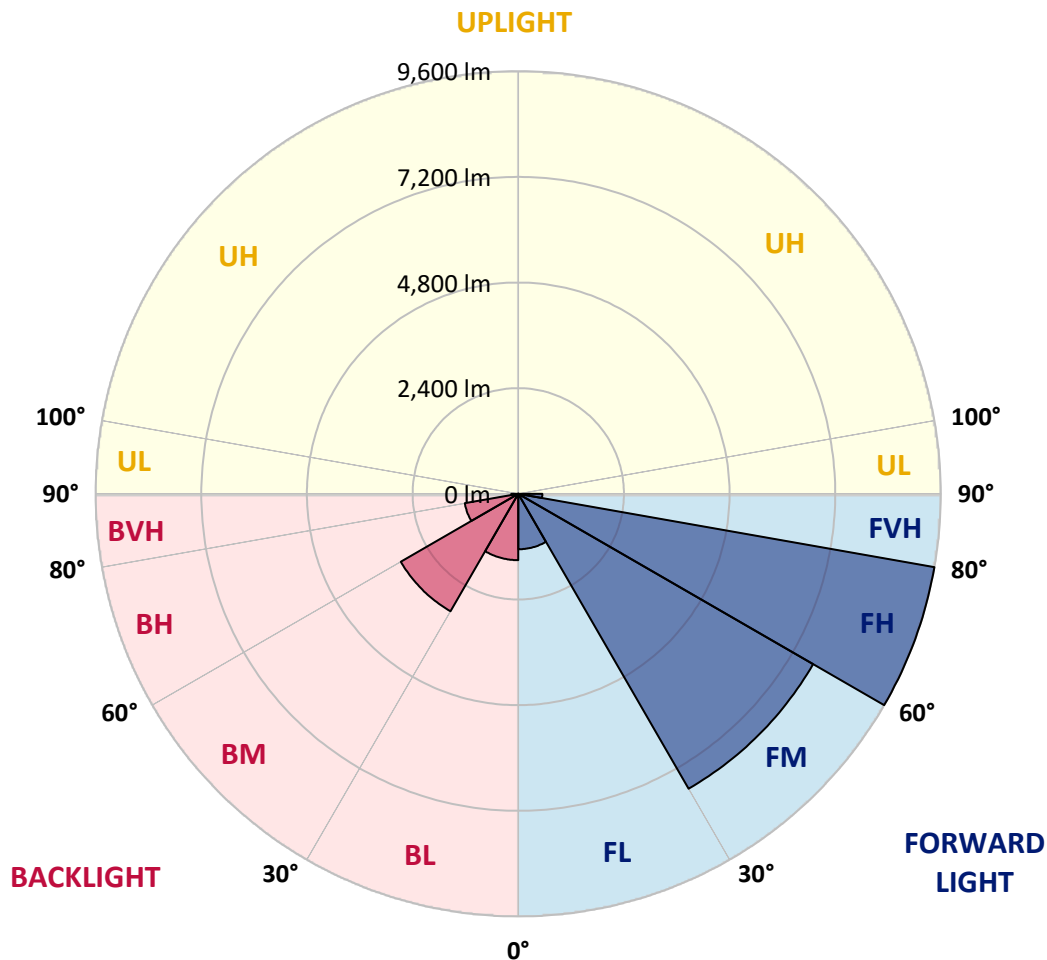


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.7	5.0			
FM (30°-60°)	7735.2	30.8			
FH (60°-80°)	9600.0	38.2			G4/12000
FVH (80°-90°)	546.2	2.2			G4/750
BL (0°-30°)	1506.4	6.0	B3/2500		
BM (30°-60°)	3080.0	12.3	B3/5000		
BH (60°-80°)	1232.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	158.7	0.6			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°	36°	45°	55°	65°	75°	85°
0°	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2
2.5°	3086.5	3105.5	3113.6	3109.6	3129.9	3127.3	3155.8	3191.0	3239.9	3287.5	3356.8
5°	2848.9	2869.3	2886.9	2903.2	2942.6	2954.8	2999.6	3067.5	3157.1	3248.1	3362.2
7.5°	2627.6	2645.2	2672.4	2702.2	2768.7	2781.0	2855.6	2961.6	3086.5	3219.6	3377.1
10°	2447.0	2464.6	2493.1	2527.0	2609.9	2624.8	2719.8	2861.1	3024.1	3192.5	3393.4
12.5°	2369.5	2374.9	2391.2	2425.3	2497.2	2506.6	2611.3	2772.8	2963.0	3172.1	3417.9
15°	2365.5	2376.4	2377.7	2395.3	2455.1	2459.2	2555.5	2715.8	2924.9	3168.0	3454.5
17.5°	2406.2	2414.4	2402.1	2413.0	2463.3	2470.0	2546.1	2688.7	2912.7	3185.6	3517.0
20°	2514.8	2521.6	2485.0	2470.0	2506.6	2512.1	2586.8	2706.3	2924.9	3222.3	3602.5
22.5°	2745.7	2749.8	2660.2	2599.0	2601.8	2604.4	2669.6	2778.3	2972.5	3288.8	3711.1
25°	3105.5	3102.8	2960.2	2842.1	2774.2	2759.3	2802.8	2895.0	3052.6	3377.1	3851.0
27.5°	3526.5	3506.1	3363.5	3187.0	3039.0	3017.3	3007.8	3047.1	3166.6	3493.9	4022.1
30°	4001.7	3982.7	3829.3	3598.5	3393.4	3358.1	3268.5	3248.1	3336.4	3652.8	4259.7
32.5°	4523.2	4510.9	4327.7	4047.9	3773.6	3732.8	3582.2	3527.8	3597.1	3893.2	4591.1
35°	4960.4	4949.5	4797.5	4509.6	4174.2	4124.0	3970.5	3909.5	3944.7	4201.4	5024.2
37.5°	5355.5	5350.1	5219.8	4993.0	4646.7	4585.6	4413.1	4392.8	4386.0	4607.4	5549.8
40°	5722.2	5708.6	5572.8	5453.3	5196.6	5141.0	4989.0	4971.2	4919.7	5107.1	6144.5
42.5°	6128.2	6092.9	5896.0	5840.3	5771.1	5724.9	5633.9	5636.7	5522.6	5670.6	6774.5
45°	6459.5	6439.2	6236.8	6204.2	6278.9	6259.9	6338.7	6359.1	6137.7	6261.3	7429.1
47.5°	6815.3	6796.3	6625.2	6602.1	6804.5	6809.9	7088.3	7095.0	6737.9	6875.1	8085.0
50°	7253.9	7226.8	7057.0	7085.5	7312.4	7332.6	7841.9	7795.7	7290.6	7498.4	8735.4
52.5°	7543.2	7559.5	7522.8	7568.9	7878.6	7897.5	8583.3	8465.2	7837.8	8113.5	9373.6
55°	7756.4	7789.0	7903.0	8008.9	8476.0	8495.0	9282.6	9102.0	8291.3	8683.8	9973.8
57.5°	8030.7	7984.4	8197.6	8404.1	9043.7	9093.9	9962.9	9715.8	8693.3	9175.4	10385.2
60°	8424.5	8391.9	8557.5	8863.1	9679.2	9759.2	10682.7	10268.4	8987.9	9565.1	10465.4
62.5°	9222.8	9141.4	9167.2	9437.4	10480.3	10586.2	11494.7	10750.5	9134.6	9717.1	10036.3
65°	10416.5	10276.6	10146.3	10333.6	11608.7	11713.3	12411.2	11129.3	9080.3	9422.5	8897.0
67.5°	11919.6	11781.1	11620.9	11797.4	13270.8	13353.6	13542.4	11342.5	8652.5	8287.3	6883.2
70°	13159.5	13107.8	13299.3	14025.8	15925.5	15928.2	14992.6	11166.0	7480.7	5875.6	3982.7
72.5°	12995.2	12963.9	13972.8	16218.8	19271.3	19199.4	16365.5	9829.9	5039.2	2650.6	1492.3
75°	10660.9	10863.3	12426.2	16179.4	20473.1	20463.6	15524.9	6249.1	2084.3	1098.5	771.3
77.5°	5716.7	6037.2	8067.3	11945.5	15982.5	16222.9	10914.8	2186.2	894.8	703.4	533.6
80°	1864.4	2144.1	3215.5	6082.0	10385.2	10340.4	4678.0	858.2	612.4	498.4	369.3
82.5°	791.6	824.2	1436.6	2871.9	5329.8	5247.0	1489.6	492.9	430.5	340.8	228.2
85°	309.7	346.2	634.2	1328.0	2308.4	2258.2	537.7	244.5	275.6	222.7	135.8
87.5°	101.9	123.6	226.7	454.9	718.3	692.5	131.7	84.2	119.5	101.9	48.9
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°	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2	3347.2
2.5°	3375.7	3397.5	3423.3	3461.3	3493.9	3521.1	3549.6	3567.2	3574.0	3594.4	3593.0
5°	3400.2	3447.7	3511.5	3574.0	3635.1	3671.8	3704.3	3720.6	3735.6	3746.5	3749.1
7.5°	3440.9	3502.0	3602.5	3684.0	3735.6	3765.4	3787.2	3781.7	3787.2	3789.9	3793.9
10°	3476.2	3561.8	3681.3	3758.7	3798.0	3799.4	3793.9	3775.0	3765.4	3766.8	3769.5
12.5°	3518.3	3613.3	3742.4	3807.6	3818.4	3788.5	3765.4	3732.8	3720.6	3715.2	3712.6
15°	3575.4	3684.0	3808.9	3833.4	3806.2	3768.2	3728.8	3675.9	3648.7	3627.0	3633.7
17.5°	3644.6	3764.1	3860.6	3842.8	3784.5	3722.0	3658.2	3578.1	3522.4	3499.4	3500.7
20°	3741.0	3848.3	3899.9	3822.5	3734.3	3639.2	3530.5	3432.8	3381.2	3358.1	3355.3
22.5°	3857.8	3961.0	3937.9	3787.2	3662.2	3510.2	3374.4	3302.4	3276.6	3260.3	3263.1
25°	3997.7	4086.0	3965.1	3735.6	3544.1	3339.0	3234.5	3211.4	3199.2	3187.0	3187.0
27.5°	4179.6	4227.1	3985.4	3659.6	3359.4	3157.1	3119.1	3123.2	3119.1	3098.8	3102.8
30°	4420.0	4410.5	4004.5	3535.9	3147.6	2992.8	2995.6	3013.2	3015.9	3002.3	3009.1
32.5°	4736.3	4640.0	4014.0	3375.7	2945.3	2848.9	2851.5	2870.6	2884.1	2861.1	2871.9
35°	5119.3	4907.5	3999.0	3174.7	2789.1	2711.7	2691.3	2696.8	2700.9	2679.1	2694.1
37.5°	5566.1	5207.5	3932.5	2952.1	2660.2	2577.3	2533.8	2497.2	2475.5	2455.1	2468.7
40°	6056.2	5534.8	3810.2	2734.8	2516.2	2434.7	2369.5	2300.3	2226.9	2199.8	2212.1
42.5°	6569.5	5871.6	3662.2	2527.0	2350.5	2284.0	2214.7	2114.3	2004.3	1948.6	1955.4
45°	7101.8	6216.5	3517.0	2322.0	2180.8	2152.3	2072.1	1951.3	1831.8	1761.2	1755.7
47.5°	7623.2	6542.4	3303.8	2115.6	2021.9	2053.2	1990.7	1879.3	1746.3	1634.9	1622.7
50°	8121.6	6847.9	2954.8	1906.5	1892.9	2023.2	1963.5	1803.3	1651.2	1508.6	1496.4
52.5°	8615.8	7095.0	2508.1	1716.4	1823.7	2015.2	1928.2	1751.7	1565.7	1416.2	1400.0
55°	9035.5	7222.7	2077.6	1553.5	1723.1	1945.9	1886.1	1690.6	1444.8	1286.0	1272.3
57.5°	9274.5	7119.4	1719.1	1393.2	1584.6	1831.8	1814.1	1560.3	1300.8	1178.6	1162.4
60°	9171.3	6701.2	1425.8	1253.4	1452.9	1708.3	1689.2	1431.2	1190.8	1075.4	1059.1
62.5°	8602.3	5904.2	1193.6	1131.1	1333.4	1582.0	1564.4	1332.1	1106.7	995.4	977.6
65°	7456.3	4802.9	1013.0	1029.3	1212.6	1429.9	1455.7	1249.3	1040.2	931.5	913.9
67.5°	5686.9	3479.0	871.8	941.1	1094.5	1280.5	1355.2	1189.5	984.5	881.3	865.0
70°	3241.4	1975.8	752.2	855.5	989.9	1142.0	1277.8	1142.0	924.8	839.2	828.3
72.5°	1228.9	907.1	650.5	770.0	889.4	1025.2	1192.3	1067.3	855.5	791.6	780.8
75°	655.9	552.7	547.2	669.4	774.0	911.1	1085.0	993.9	803.9	836.5	863.7
77.5°	446.8	391.0	457.7	573.1	647.7	784.8	970.9	882.6	696.6	693.9	639.6
80°	309.7	277.1	372.1	461.7	501.0	659.9	847.4	757.7	567.6	529.6	506.5
82.5°	186.0	180.6	278.4	344.9	354.4	509.2	702.0	635.5	464.4	404.7	407.3
85°	101.9	107.3	177.8	202.3	206.4	355.8	549.9	491.6	357.1	300.1	302.8
87.5°	28.5	36.7	65.2	80.2	99.1	184.7	327.3	291.9	179.3	124.9	124.9
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)