

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: P964468

Luminaire Tested: **NAV-SB3C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964468
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-SB3C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18860 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

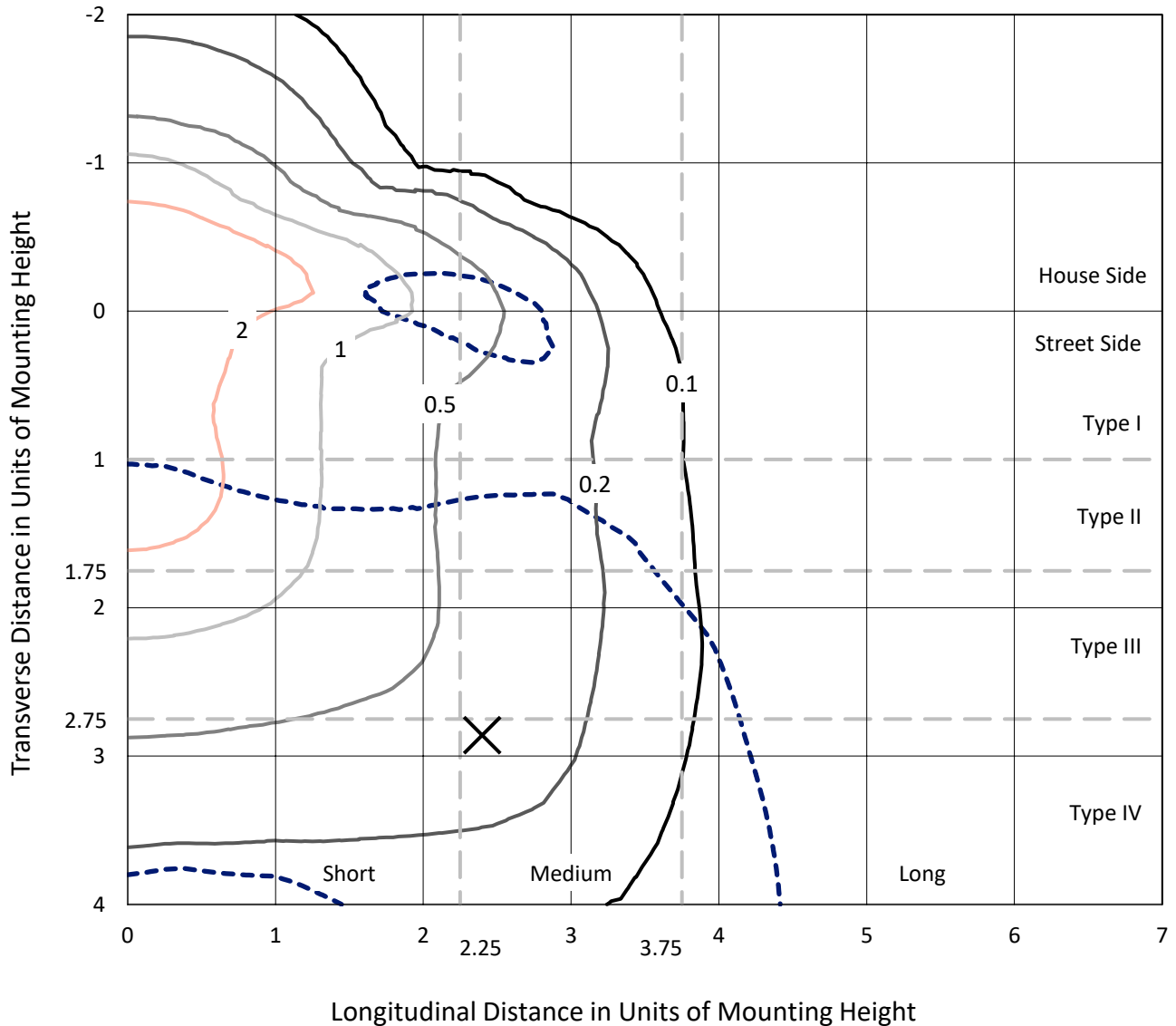
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

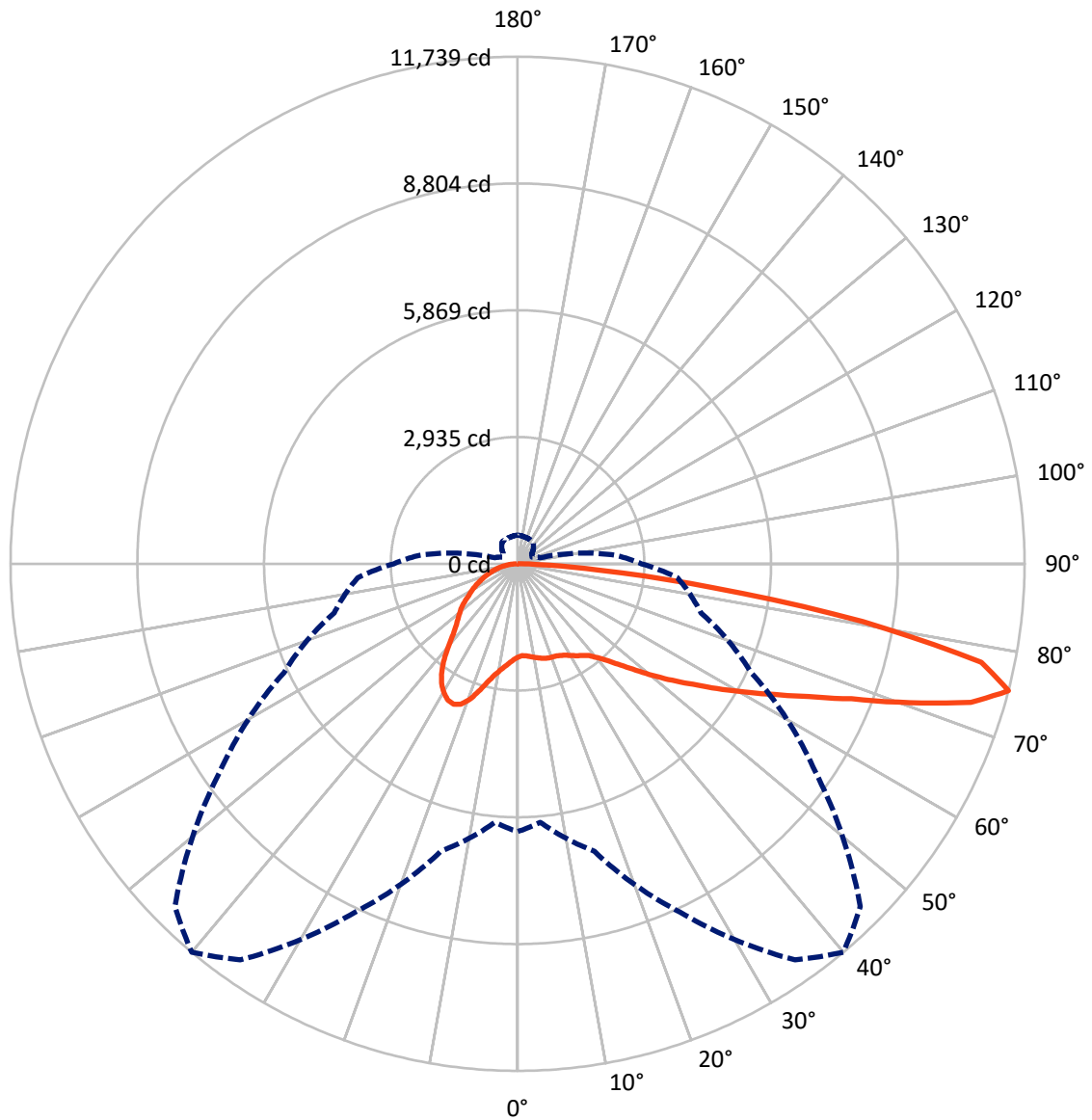
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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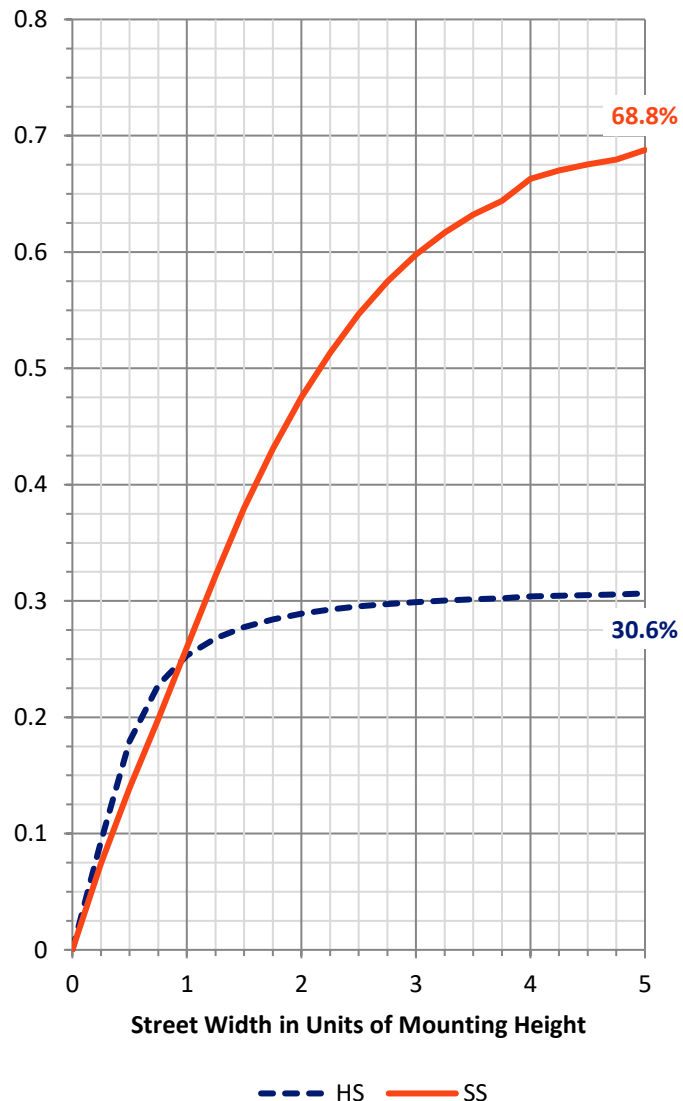
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5843.5	0.0	5843.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13016.5	0.0	13016.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	18860.0	0.0	18860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.1
10°-20°	722.8	3.8
20°-30°	1319.7	7.0
30°-40°	1871.8	9.9
40°-50°	2527.4	13.4
50°-60°	3400.1	18.0
60°-70°	4315.5	22.9
70°-80°	3916.6	20.8
80°-90°	570.9	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°	18860.0	100.0
0°-180°	18860.0	100.0

Coefficient of Utilization

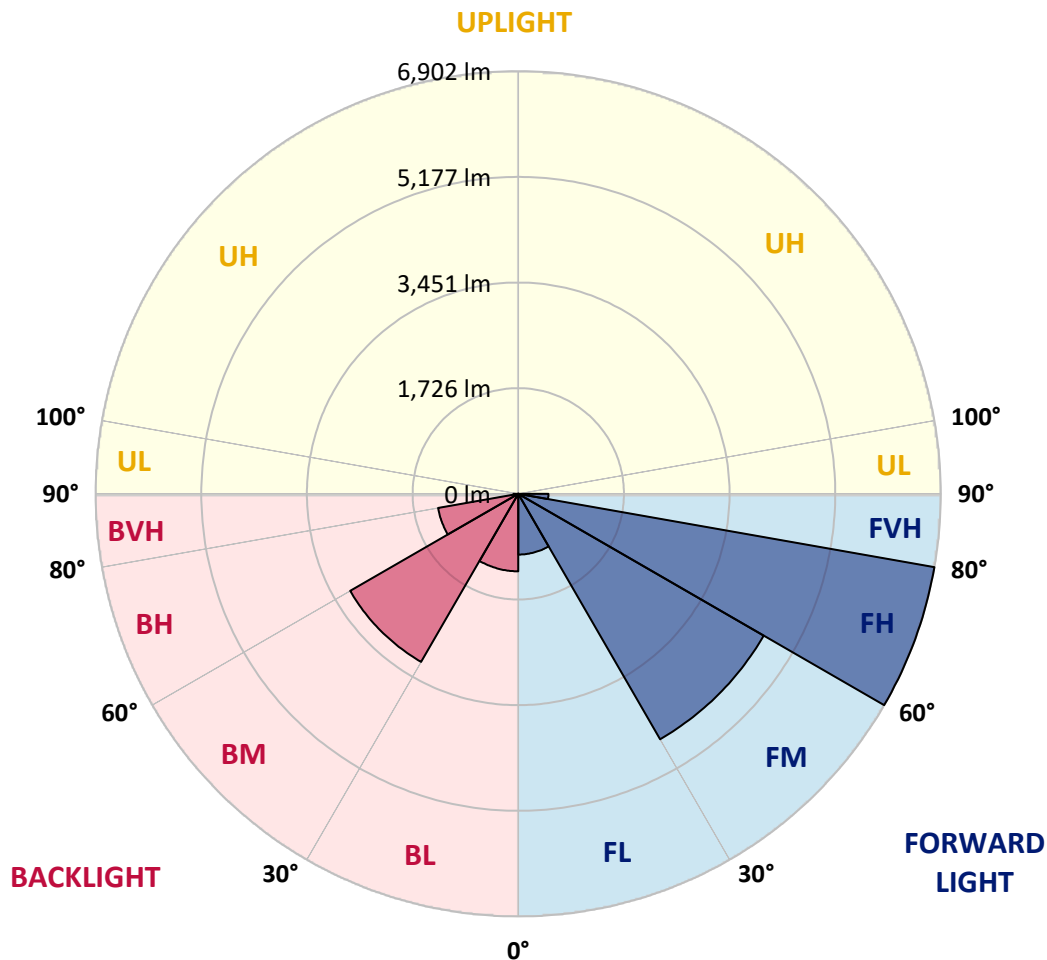


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.1	5.3			
FM (30°-60°)	4629.7	24.5			
FH (60°-80°)	6902.5	36.6			G3/7500
FVH (80°-90°)	492.3	2.6			G3/500
BL (0°-30°)	1265.7	6.7	B3/2500		
BM (30°-60°)	3169.6	16.8	B3/5000		
BH (60°-80°)	1329.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	78.6	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-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2123.7	2135.7	2132.6	2128.6	2128.6	2129.6	2128.6	2135.7	2142.7	2149.6	2160.7
5°	2145.6	2157.6	2151.7	2146.7	2142.7	2141.6	2138.7	2137.6	2141.6	2150.7	2165.6
7.5°	2188.7	2200.7	2191.7	2182.6	2174.6	2170.6	2166.6	2160.7	2157.6	2162.6	2183.7
10°	2236.7	2248.6	2237.7	2221.7	2208.7	2203.6	2199.6	2193.7	2189.7	2192.7	2215.6
12.5°	2284.7	2296.7	2281.8	2259.7	2242.7	2239.7	2234.7	2232.7	2231.7	2230.7	2253.7
15°	2329.7	2339.8	2320.7	2294.7	2276.7	2271.7	2266.7	2269.7	2274.7	2280.7	2306.8
17.5°	2364.8	2374.7	2346.7	2312.7	2295.7	2293.7	2290.7	2300.7	2314.8	2329.7	2361.7
20°	2396.8	2406.7	2370.7	2324.7	2304.7	2304.7	2305.7	2326.8	2346.7	2368.8	2412.7
22.5°	2441.8	2449.8	2405.8	2342.7	2313.7	2315.7	2323.7	2344.7	2369.7	2399.7	2460.7
25°	2508.8	2514.7	2460.7	2376.8	2343.8	2349.7	2356.7	2366.7	2390.7	2425.8	2507.8
27.5°	2616.8	2621.8	2550.8	2436.7	2386.7	2396.8	2406.7	2399.7	2410.7	2440.7	2545.8
30°	2768.8	2771.8	2681.8	2530.8	2459.8	2464.7	2466.8	2437.8	2416.7	2440.7	2572.8
32.5°	2948.9	2947.9	2840.9	2644.8	2542.8	2537.8	2520.8	2463.8	2414.7	2435.7	2596.8
35°	3228.0	3217.0	3079.0	2804.9	2636.8	2605.8	2565.8	2492.8	2424.7	2430.8	2617.8
37.5°	3690.1	3656.2	3465.1	3066.9	2776.8	2697.8	2638.9	2539.7	2446.8	2428.7	2642.9
40°	4211.3	4168.3	3958.2	3426.1	2987.0	2859.9	2764.8	2606.8	2482.8	2437.8	2679.9
42.5°	4829.5	4768.5	4542.4	3849.2	3253.0	3069.0	2925.9	2691.9	2535.7	2466.8	2729.9
45°	5588.7	5507.7	5187.6	4326.3	3588.1	3343.0	3152.0	2820.9	2616.8	2522.7	2804.9
47.5°	6355.9	6376.0	5920.8	4872.5	3990.2	3681.2	3435.1	3014.9	2734.8	2612.8	2925.9
50°	7171.2	7185.2	6650.1	5477.7	4446.3	4063.3	3753.1	3232.0	2898.9	2740.8	3107.0
52.5°	7807.4	7809.4	7312.2	6110.8	4921.5	4483.3	4096.3	3480.1	3088.9	2910.9	3348.1
55°	8205.5	8200.5	7776.4	6710.1	5467.7	4924.5	4476.4	3762.2	3321.0	3111.0	3651.2
57.5°	8494.6	8479.6	8096.5	7225.2	6049.9	5445.7	4906.5	4082.3	3595.1	3349.1	4050.3
60°	8604.7	8595.6	8313.6	7670.4	6662.1	6021.9	5402.7	4440.4	3906.2	3630.1	4563.4
62.5°	8646.7	8663.7	8526.7	8101.5	7317.3	6660.0	5947.9	4868.5	4256.3	3948.2	5104.6
65°	8794.7	8825.8	8797.7	8665.7	8057.5	7407.3	6671.1	5377.7	4638.4	4289.3	5669.8
67.5°	9087.9	9118.8	9130.8	9340.9	8961.8	8338.6	7573.3	6011.8	5085.5	4643.5	6094.9
70°	9080.8	9071.8	9283.8	9878.0	10094.1	9627.9	8789.7	6792.1	5618.7	4937.5	6148.9
72.5°	8265.6	8193.5	8694.7	9872.1	11036.4	10974.4	10275.2	7798.4	6078.9	4973.5	5335.6
75°	6200.9	6008.9	6894.2	8896.8	11193.4	11738.6	11219.4	8422.6	5969.8	4394.4	3713.2
77.5°	2651.8	2458.8	3502.1	6586.0	10018.1	10973.3	10353.2	7348.2	4765.4	2905.9	1823.6
80°	694.2	693.2	1058.3	2985.9	6813.1	8103.5	7109.2	4745.4	2722.8	1038.3	503.2
82.5°	287.1	280.1	389.1	1161.3	3329.0	4547.4	3711.1	2116.6	983.3	281.1	167.1
85°	107.0	106.0	189.0	401.1	1174.3	1875.5	1357.4	541.2	245.1	137.0	75.0
87.5°	30.0	29.0	41.0	139.1	286.1	434.1	232.1	89.1	69.0	54.0	22.0
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°	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2163.7	2168.7	2177.7	2184.7	2193.7	2203.6	2217.7	2226.7	2235.7	2241.7	2237.7
5°	2172.7	2183.7	2206.7	2229.7	2256.7	2281.8	2310.8	2331.7	2348.7	2353.7	2355.8
7.5°	2192.7	2210.7	2249.7	2288.7	2331.7	2372.8	2414.7	2450.8	2479.8	2490.8	2491.8
10°	2227.7	2251.7	2306.8	2361.7	2418.8	2481.7	2535.7	2587.8	2628.8	2645.8	2646.9
12.5°	2271.7	2301.7	2373.7	2449.8	2528.8	2615.8	2685.8	2749.9	2800.9	2823.9	2823.9
15°	2328.7	2367.8	2459.8	2561.8	2677.8	2798.9	2887.9	2958.9	3016.0	3043.9	3041.9
17.5°	2390.7	2442.8	2558.8	2712.9	2878.9	3037.9	3141.9	3194.0	3253.0	3280.0	3279.0
20°	2450.8	2514.7	2680.8	2904.8	3125.9	3295.1	3379.0	3393.1	3397.1	3400.0	3408.0
22.5°	2512.8	2598.8	2833.9	3147.0	3384.0	3501.1	3513.1	3453.0	3369.1	3330.0	3341.0
25°	2580.8	2694.8	3033.9	3414.1	3606.2	3620.1	3528.0	3382.1	3223.0	3149.9	3161.0
27.5°	2646.9	2805.8	3274.1	3669.1	3766.2	3643.2	3445.0	3238.0	3045.9	2968.9	2977.9
30°	2712.9	2932.9	3539.1	3892.2	3839.1	3586.1	3314.0	3083.0	2889.9	2808.9	2817.8
32.5°	2779.9	3080.9	3844.2	4053.3	3826.2	3465.1	3151.0	2908.8	2738.8	2653.8	2664.8
35°	2855.9	3263.0	4133.3	4141.3	3739.2	3287.0	2935.9	2700.9	2552.8	2484.8	2499.8
37.5°	2954.9	3494.1	4388.3	4163.2	3587.1	3025.9	2668.8	2454.8	2332.7	2301.7	2323.7
40°	3078.0	3772.2	4583.4	4128.3	3362.0	2708.9	2376.8	2205.7	2136.6	2143.7	2167.7
42.5°	3238.0	4083.3	4720.4	4038.3	3049.0	2381.7	2120.6	2044.7	2077.7	2105.7	2131.7
45°	3446.0	4406.4	4805.5	3885.2	2694.8	2104.6	1969.6	1987.6	2012.6	2015.7	2035.6
47.5°	3712.1	4733.4	4861.5	3654.1	2333.7	1909.6	1873.6	1877.6	1872.6	1851.6	1867.5
50°	4044.2	5051.6	4911.5	3348.1	2026.6	1787.6	1739.5	1725.5	1656.5	1588.4	1597.5
52.5°	4422.4	5343.6	4932.5	2967.9	1787.6	1685.5	1607.5	1519.5	1390.4	1369.4	1376.5
55°	4842.5	5613.7	4878.5	2500.8	1586.5	1554.5	1436.4	1330.4	1316.4	1298.4	1301.4
57.5°	5344.7	5904.8	4768.5	1979.6	1380.5	1401.5	1286.4	1298.4	1273.4	1245.4	1240.4
60°	5893.9	6206.0	4575.4	1504.5	1167.4	1210.4	1247.4	1246.4	1239.4	1216.4	1208.4
62.5°	6388.0	6404.0	4195.3	1152.3	980.3	1062.3	1163.4	1162.4	1156.4	1143.4	1138.4
65°	6682.1	6374.0	3561.1	907.3	826.3	940.3	1049.3	1057.3	1058.3	1057.3	1057.3
67.5°	6630.0	6022.9	2690.8	722.2	699.3	816.2	936.3	947.3	955.3	957.2	959.3
70°	6041.9	5251.6	1754.5	576.2	586.2	707.2	829.2	840.3	847.3	855.3	859.3
72.5°	4709.5	3861.2	1004.3	466.2	487.2	613.2	723.2	736.3	740.3	755.2	761.3
75°	2869.9	2270.7	542.1	367.2	400.2	524.2	618.2	633.2	640.2	658.2	660.2
77.5°	1364.4	983.3	309.1	286.1	322.1	428.1	522.1	539.2	520.2	530.1	522.1
80°	461.1	365.1	195.1	218.0	246.1	334.2	418.1	435.1	395.1	393.1	389.1
82.5°	161.0	148.0	124.0	145.0	159.1	239.0	316.1	338.1	294.1	293.0	279.1
85°	63.0	60.1	69.0	79.0	95.0	147.1	208.1	219.0	181.0	146.1	144.0
87.5°	13.0	14.0	17.0	18.0	29.0	51.0	75.0	92.0	73.0	62.0	57.0
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)