

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: P967630

Luminaire Tested: **NAV-SB5A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967630
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-SB5A-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 19018.9 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

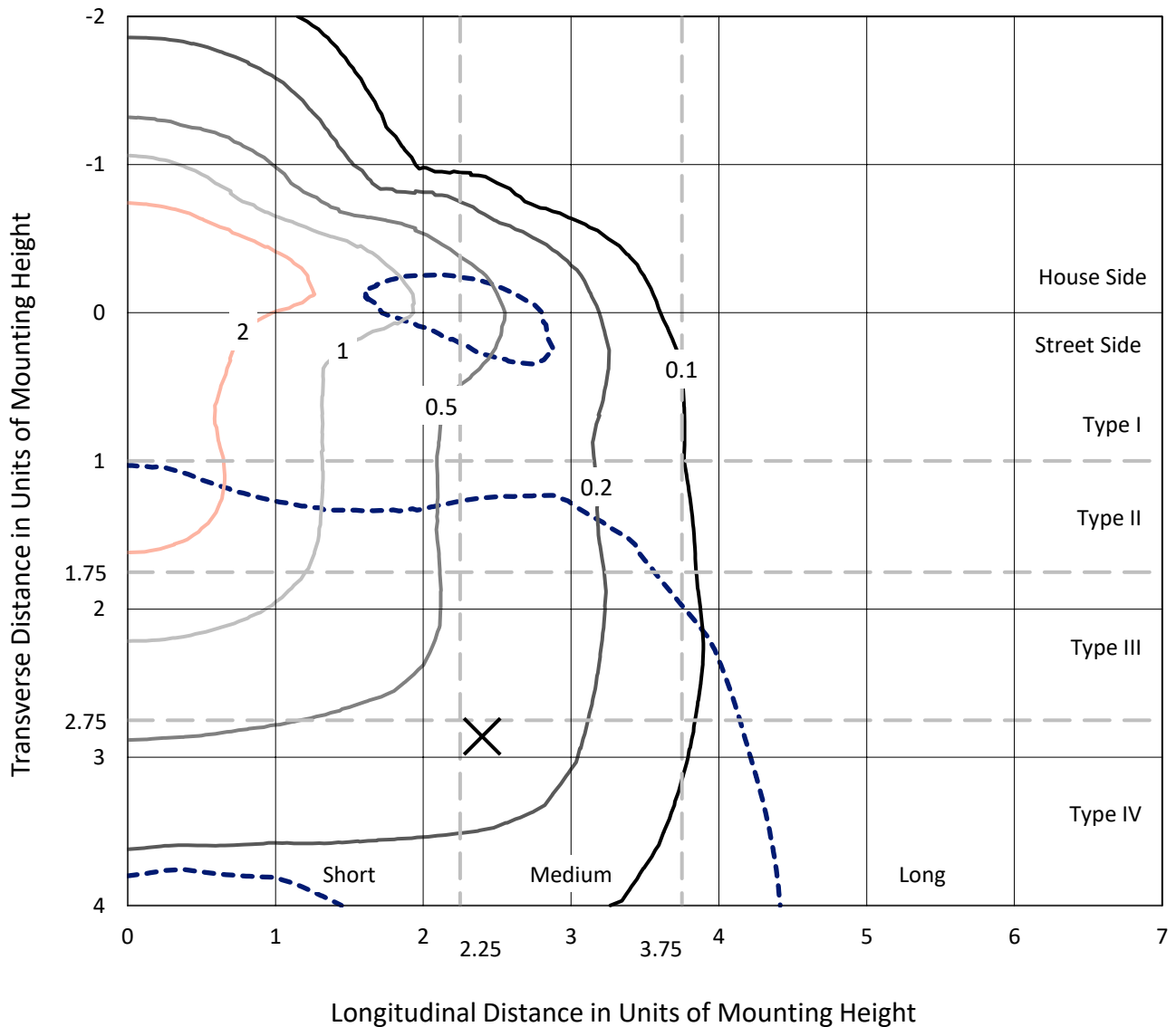
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

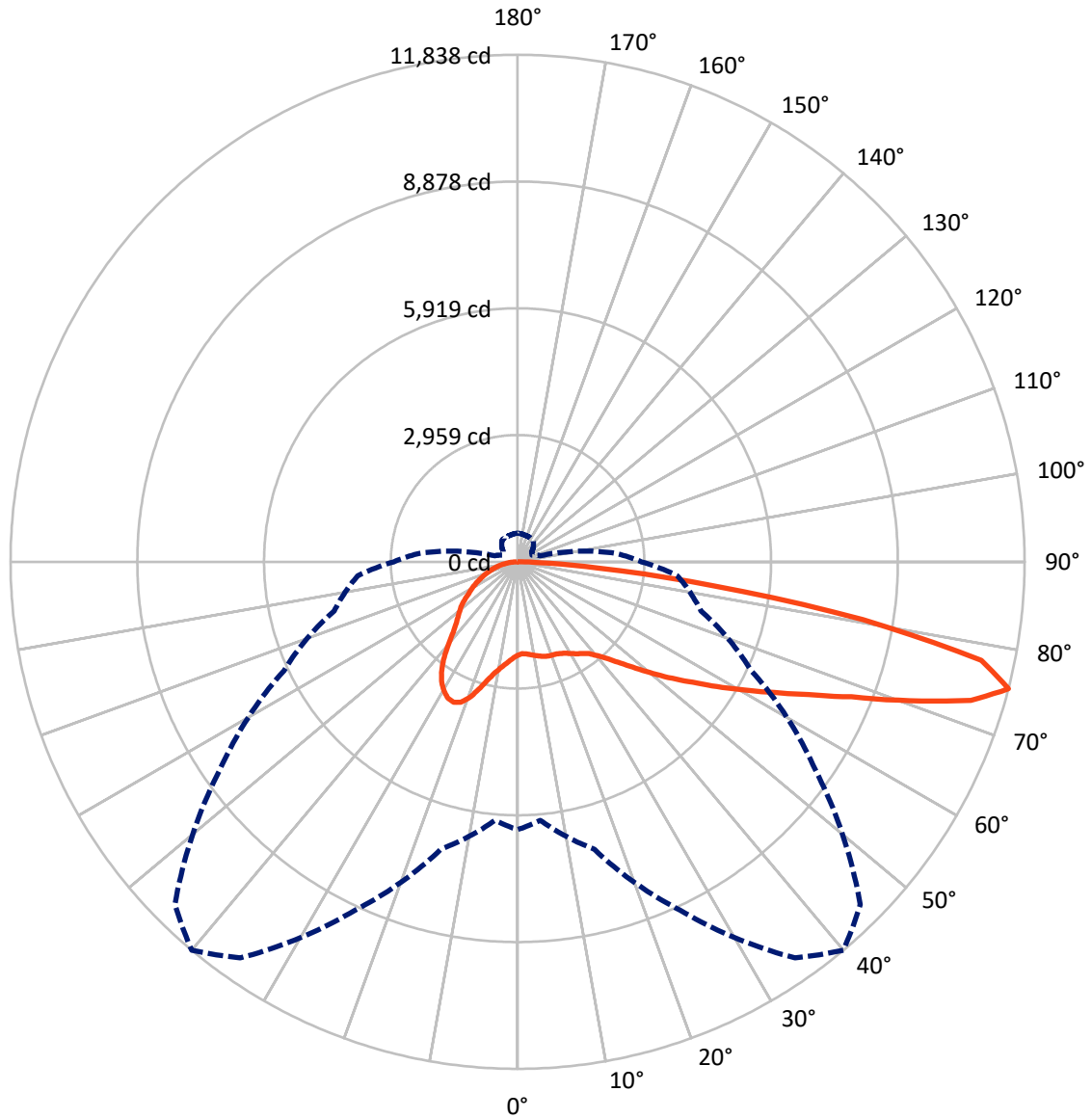
× Max cd
 - - - 1/2 Max cd



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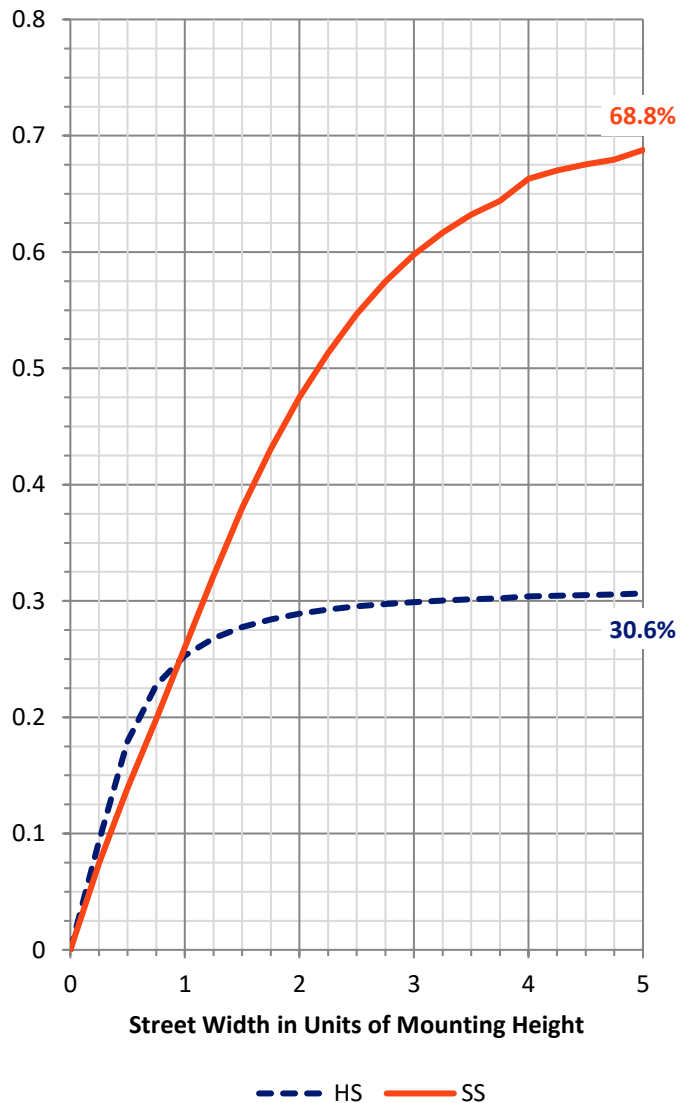
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5892.7	0.0	5892.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13126.2	0.0	13126.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	19018.9	0.0	19018.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	1.1
10°-20°	728.9	3.8
20°-30°	1330.9	7.0
30°-40°	1887.5	9.9
40°-50°	2548.7	13.4
50°-60°	3428.7	18.0
60°-70°	4351.8	22.9
70°-80°	3949.5	20.8
80°-90°	575.7	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°	19018.9	100.0
0°-180°	19018.9	100.0

Coefficient of Utilization

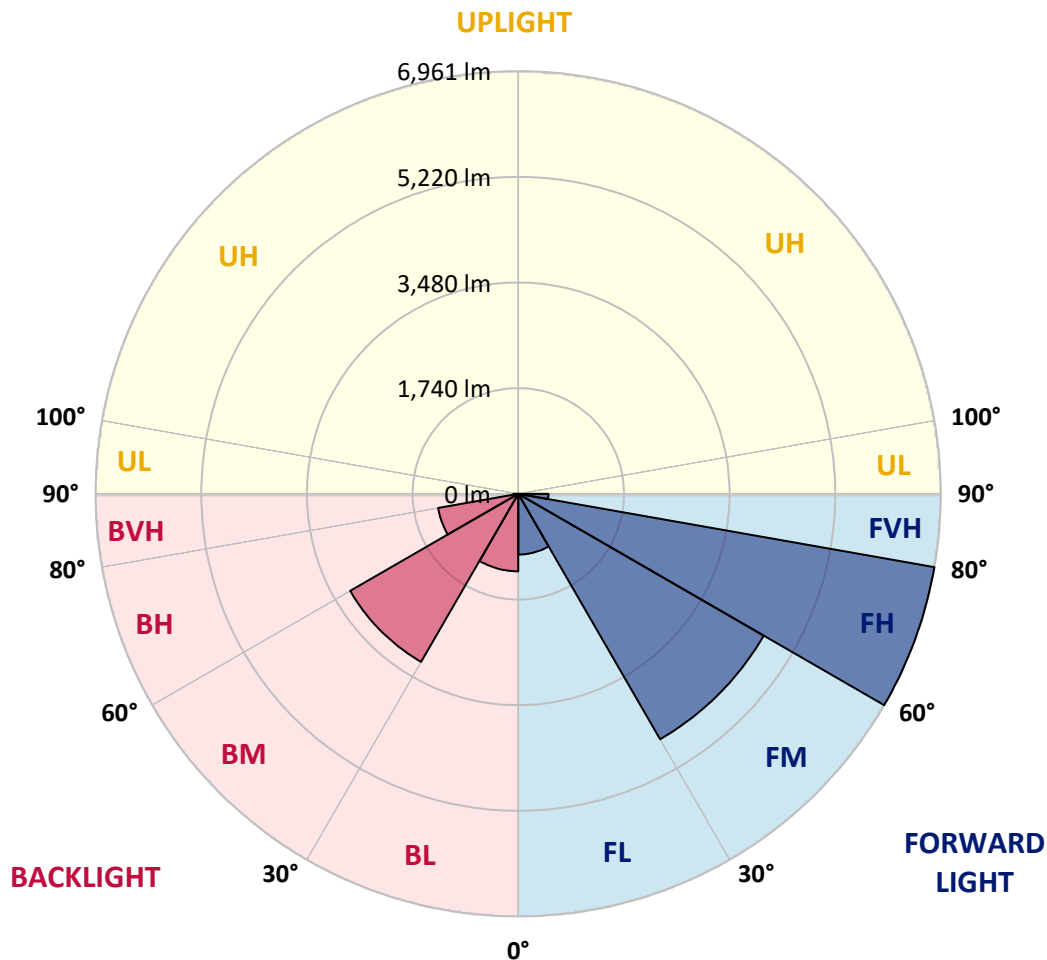


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.4	5.3			
FM (30°-60°)	4668.7	24.5			
FH (60°-80°)	6960.6	36.6			G3/7500
FVH (80°-90°)	496.5	2.6			G3/500
BL (0°-30°)	1276.4	6.7	B3/2500		
BM (30°-60°)	3196.2	16.8	B3/5000		
BH (60°-80°)	1340.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	79.3	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°	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8
2.5°	2141.5	2153.6	2150.7	2146.6	2146.6	2147.6	2146.6	2153.6	2160.7	2167.8	2178.8
5°	2163.8	2175.9	2169.8	2164.7	2160.7	2159.7	2156.7	2155.7	2159.7	2168.8	2183.9
7.5°	2207.1	2219.2	2210.1	2201.1	2193.0	2189.0	2184.9	2178.8	2175.9	2180.9	2202.1
10°	2255.5	2267.6	2256.5	2240.4	2227.3	2222.2	2218.2	2212.2	2208.2	2211.1	2234.4
12.5°	2304.0	2316.1	2300.9	2278.8	2261.6	2258.6	2253.6	2251.5	2250.5	2249.5	2272.6
15°	2349.3	2359.4	2340.3	2314.0	2295.9	2290.9	2285.8	2288.8	2293.8	2299.9	2326.1
17.5°	2384.7	2394.7	2366.5	2332.2	2315.1	2313.0	2310.0	2320.1	2334.2	2349.3	2381.6
20°	2417.0	2427.0	2390.7	2344.3	2324.1	2324.1	2325.1	2346.3	2366.5	2388.7	2433.0
22.5°	2462.4	2470.4	2426.0	2362.4	2333.2	2335.3	2343.3	2364.5	2389.7	2419.9	2481.5
25°	2529.9	2536.0	2481.5	2396.8	2363.4	2369.5	2376.6	2386.7	2410.9	2446.2	2528.9
27.5°	2638.9	2643.9	2572.2	2457.2	2406.8	2417.0	2427.0	2419.9	2431.1	2461.3	2567.2
30°	2792.2	2795.2	2704.5	2552.1	2480.5	2485.5	2487.6	2458.3	2437.1	2461.3	2594.5
32.5°	2973.7	2972.7	2864.8	2667.0	2564.2	2559.1	2542.0	2484.5	2435.1	2456.3	2618.7
35°	3255.2	3244.1	3104.9	2828.5	2659.1	2627.8	2587.4	2513.8	2445.1	2451.2	2639.9
37.5°	3721.3	3686.9	3494.2	3092.7	2800.3	2720.6	2661.0	2561.2	2467.4	2449.2	2665.1
40°	4246.8	4203.4	3991.6	3455.0	3012.1	2883.9	2788.1	2628.7	2503.7	2458.3	2702.4
42.5°	4870.2	4808.7	4580.6	3881.6	3280.4	3094.8	2950.6	2714.5	2557.2	2487.6	2752.8
45°	5635.8	5554.1	5231.3	4362.8	3618.4	3371.2	3178.5	2844.7	2638.9	2544.0	2828.5
47.5°	6409.5	6429.7	5970.7	4913.5	4023.8	3712.1	3464.0	3040.4	2757.9	2634.9	2950.6
50°	7231.6	7245.7	6706.1	5523.8	4483.9	4097.4	3784.8	3259.2	2923.3	2763.9	3133.1
52.5°	7873.2	7875.2	7373.8	6162.4	4962.9	4521.2	4130.8	3509.4	3115.0	2935.4	3376.2
55°	8274.6	8269.6	7841.9	6766.6	5513.8	4966.0	4514.1	3793.8	3349.0	3137.2	3681.9
57.5°	8566.2	8551.1	8164.7	7286.1	6100.8	5491.5	4947.9	4116.6	3625.4	3377.3	4084.4
60°	8677.1	8668.0	8383.6	7735.0	6718.2	6072.6	5448.2	4477.8	3939.1	3660.7	4601.8
62.5°	8719.5	8736.7	8598.4	8169.8	7378.9	6716.2	5997.9	4909.5	4292.2	3981.5	5147.5
65°	8868.8	8900.1	8871.8	8738.6	8125.4	7469.7	6727.3	5423.0	4677.5	4325.5	5717.6
67.5°	9164.3	9195.6	9207.8	9419.5	9037.2	8408.8	7637.2	6062.5	5128.4	4682.5	6146.2
70°	9157.3	9148.2	9362.0	9961.3	10179.2	9709.1	8863.8	6849.4	5666.1	4979.1	6200.7
72.5°	8335.2	8262.5	8768.0	9955.2	11129.3	11066.8	10361.7	7864.1	6130.1	5015.4	5380.6
75°	6253.1	6059.5	6952.2	8971.7	11287.7	11837.5	11313.9	8493.6	6020.1	4431.4	3744.4
77.5°	2674.1	2479.5	3531.5	6641.5	10102.5	11065.8	10440.4	7410.1	4805.6	2930.4	1839.0
80°	700.1	699.0	1067.2	3011.0	6870.5	8171.8	7169.1	4785.4	2745.8	1047.0	507.4
82.5°	289.5	282.5	392.4	1171.2	3357.1	4585.7	3742.4	2134.5	991.6	283.4	168.5
85°	107.9	106.9	190.6	404.5	1184.3	1891.3	1368.9	545.7	247.1	138.2	75.6
87.5°	30.2	29.2	41.3	140.2	288.5	437.8	234.0	89.8	69.6	54.4	22.2
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°	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8	2174.8
2.5°	2181.9	2186.9	2196.1	2203.0	2212.2	2222.2	2236.3	2245.5	2254.5	2260.5	2256.5
5°	2190.9	2202.1	2225.3	2248.4	2275.7	2300.9	2330.1	2351.4	2368.5	2373.6	2375.5
7.5°	2211.1	2229.3	2268.6	2308.0	2351.4	2392.8	2435.1	2471.4	2500.7	2511.8	2512.8
10°	2246.5	2270.7	2326.1	2381.6	2439.1	2502.6	2557.2	2609.5	2651.0	2668.1	2669.1
12.5°	2290.9	2321.1	2393.7	2470.4	2550.1	2637.8	2708.5	2773.0	2824.5	2847.7	2847.7
15°	2348.4	2387.6	2480.5	2583.4	2700.4	2822.4	2912.2	2983.9	3041.4	3069.6	3067.5
17.5°	2410.9	2463.4	2580.3	2735.7	2903.1	3063.5	3168.5	3220.9	3280.4	3307.7	3306.6
20°	2471.4	2536.0	2703.4	2929.3	3152.3	3322.7	3407.5	3421.7	3425.7	3428.7	3436.7
22.5°	2533.9	2620.7	2857.7	3173.5	3412.5	3530.6	3542.7	3482.1	3397.5	3358.1	3369.2
25°	2602.6	2717.6	3059.5	3442.8	3636.5	3650.6	3557.8	3410.6	3250.2	3176.5	3187.6
27.5°	2669.1	2829.5	3301.6	3700.0	3797.9	3673.8	3474.1	3265.2	3071.6	2993.9	3003.0
30°	2735.7	2957.6	3568.9	3925.0	3871.5	3616.3	3341.9	3108.9	2914.3	2832.5	2841.6
32.5°	2803.3	3106.9	3876.6	4087.4	3858.4	3494.2	3177.5	2933.4	2762.0	2676.2	2687.2
35°	2879.9	3290.5	4168.1	4176.2	3770.7	3314.7	2960.6	2723.6	2574.3	2505.7	2520.8
37.5°	2979.8	3523.5	4425.3	4198.4	3617.3	3051.4	2691.3	2475.5	2352.4	2321.1	2343.3
40°	3103.9	3804.0	4622.0	4163.0	3390.4	2731.6	2396.8	2224.2	2154.7	2161.7	2185.9
42.5°	3265.2	4117.6	4760.2	4072.2	3074.6	2401.8	2138.6	2061.9	2095.1	2123.4	2149.6
45°	3475.1	4443.5	4846.0	3918.0	2717.6	2122.4	1986.2	2004.4	2029.6	2032.6	2052.8
47.5°	3743.4	4773.3	4902.5	3684.9	2353.4	1925.7	1889.4	1893.4	1888.4	1867.1	1883.3
50°	4078.3	5094.1	4952.9	3376.2	2043.7	1802.6	1754.2	1740.0	1670.4	1601.9	1611.0
52.5°	4459.6	5388.6	4974.1	2992.9	1802.6	1699.8	1621.0	1532.3	1402.1	1381.0	1388.1
55°	4883.3	5661.0	4919.6	2521.8	1599.8	1567.5	1448.5	1341.6	1327.5	1309.3	1312.4
57.5°	5389.7	5954.5	4808.7	1996.3	1392.1	1413.3	1297.2	1309.3	1284.1	1255.8	1250.8
60°	5943.5	6258.2	4613.9	1517.1	1177.2	1220.6	1257.9	1256.9	1249.8	1226.6	1218.5
62.5°	6441.8	6457.9	4230.7	1162.0	988.5	1071.2	1173.1	1172.2	1166.1	1153.0	1147.9
65°	6738.4	6427.7	3591.1	914.9	833.2	948.2	1058.2	1066.2	1067.2	1066.2	1066.2
67.5°	6685.9	6073.6	2713.5	728.3	705.1	823.2	944.1	955.3	963.3	965.3	967.4
70°	6092.8	5295.9	1769.4	581.1	591.1	713.2	836.2	847.4	854.4	862.4	866.5
72.5°	4749.1	3893.8	1012.8	470.1	491.3	618.4	729.3	742.4	746.5	761.6	767.6
75°	2894.1	2289.8	546.7	370.2	403.5	528.6	623.4	638.6	645.5	663.8	665.7
77.5°	1376.0	991.6	311.7	288.5	324.8	431.7	526.5	543.7	524.5	534.6	526.5
80°	465.0	368.2	196.7	219.9	248.2	336.9	421.7	438.8	398.4	396.5	392.4
82.5°	162.4	149.3	125.0	146.3	160.4	241.1	318.8	340.9	296.5	295.6	281.5
85°	63.6	60.5	69.6	79.6	95.8	148.3	209.8	220.9	182.6	147.3	145.2
87.5°	13.1	14.1	17.1	18.1	29.2	51.5	75.6	92.8	73.6	62.5	57.5
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)