

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: P969784

Luminaire Tested: **NAV-SB6A-727-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-727-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25879.2 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

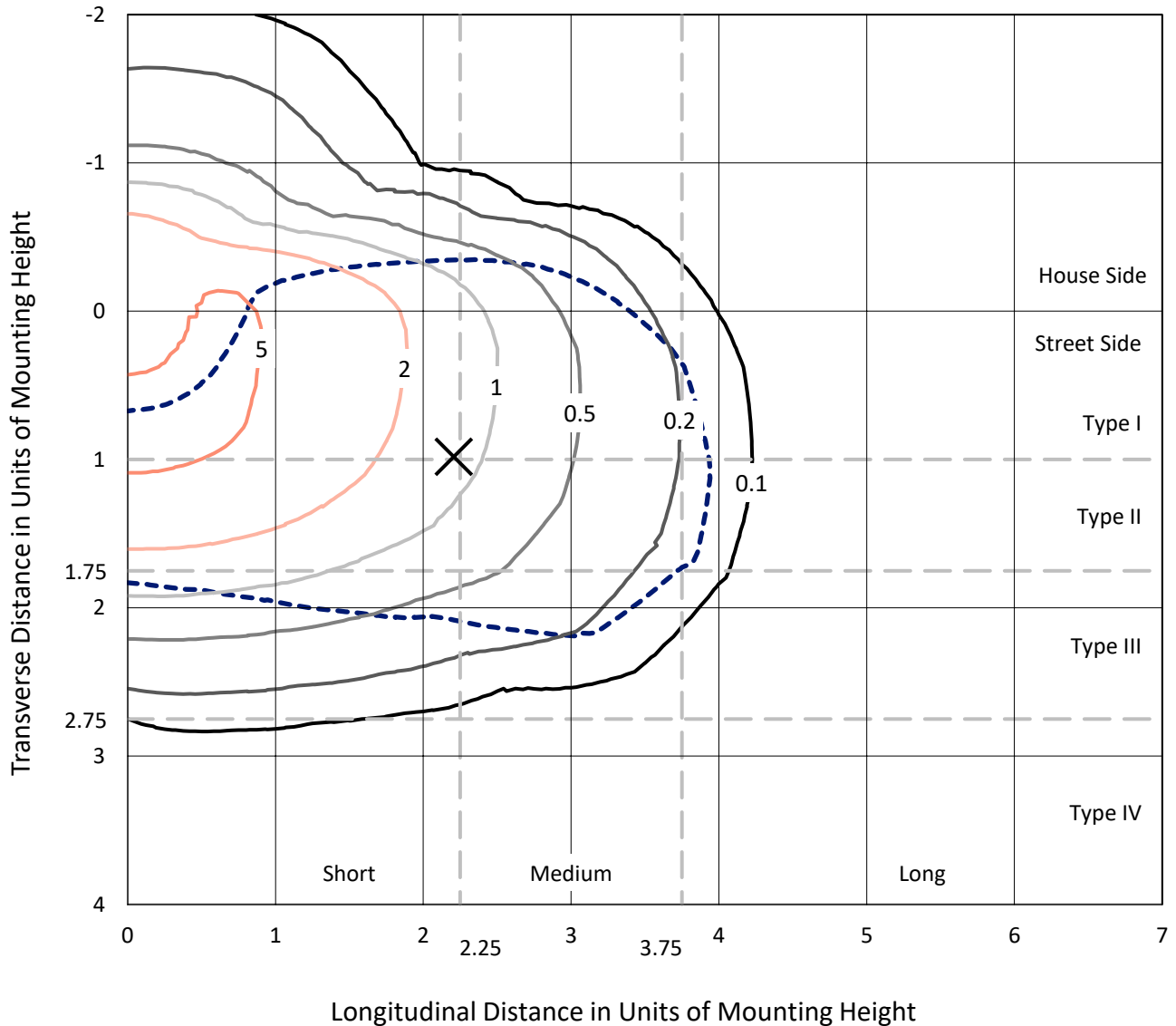
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

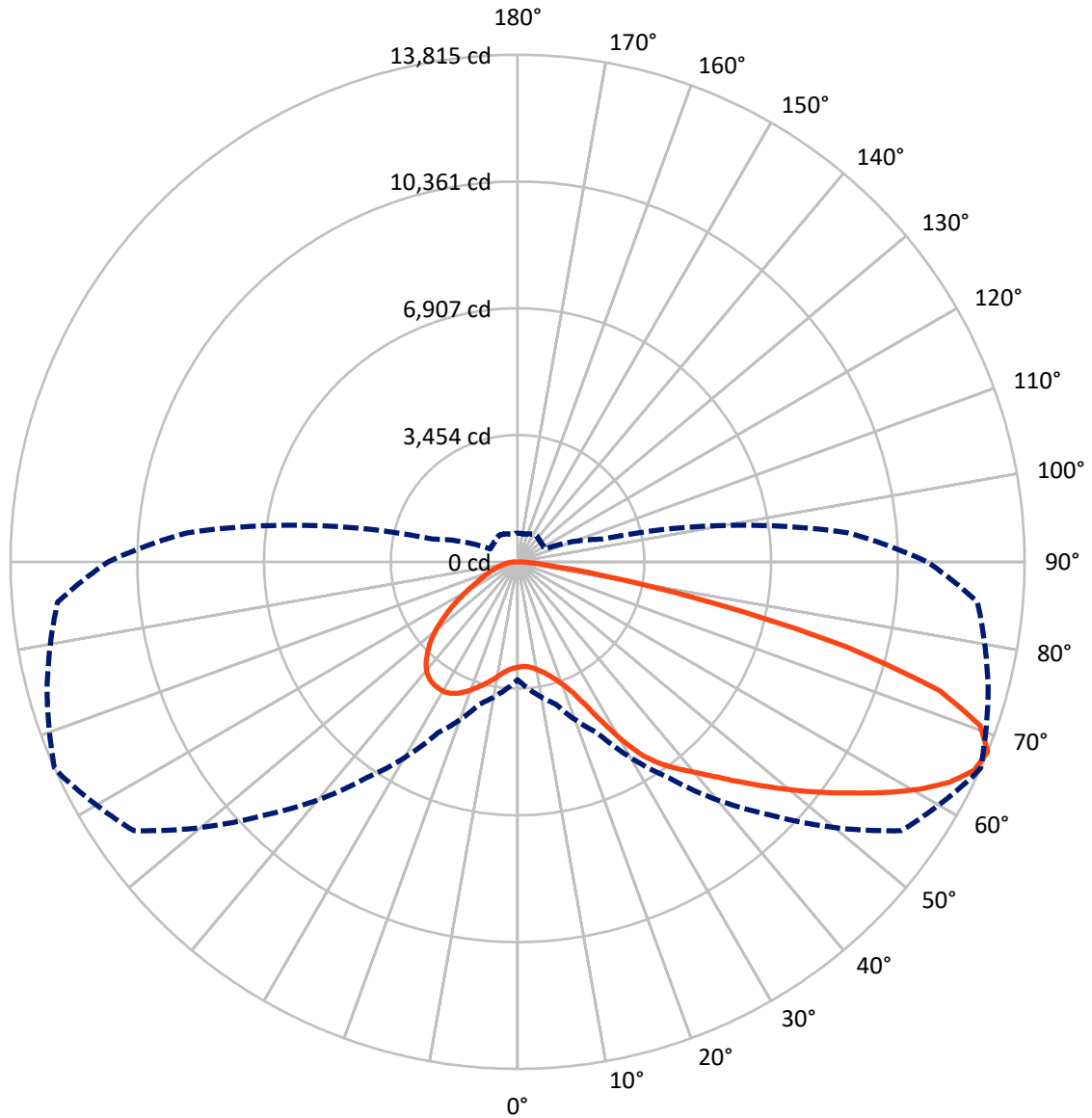
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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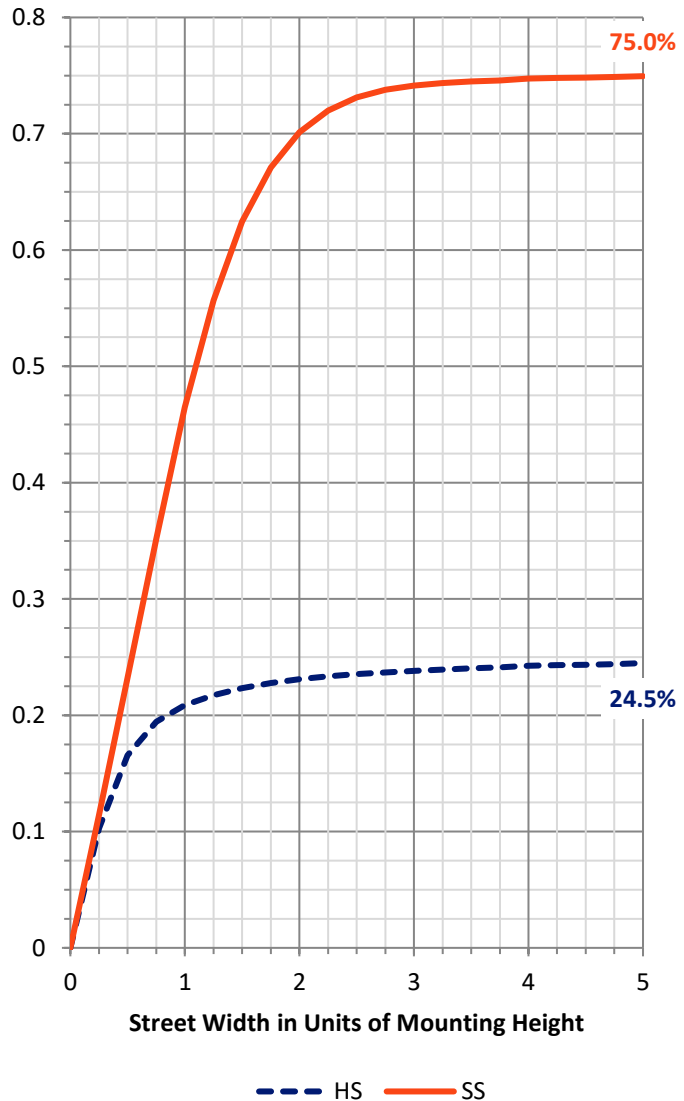
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6434.8	0.0	6434.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	19444.4	0.0	19444.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	25879.2	0.0	25879.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.6	1.1
10°-20°	940.2	3.6
20°-30°	1812.2	7.0
30°-40°	3177.5	12.3
40°-50°	4723.9	18.3
50°-60°	5988.0	23.1
60°-70°	5859.1	22.6
70°-80°	2794.9	10.8
80°-90°	298.7	1.2
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°	25879.2	100.0
0°-180°	25879.2	100.0

**Coefficient of Utilization**



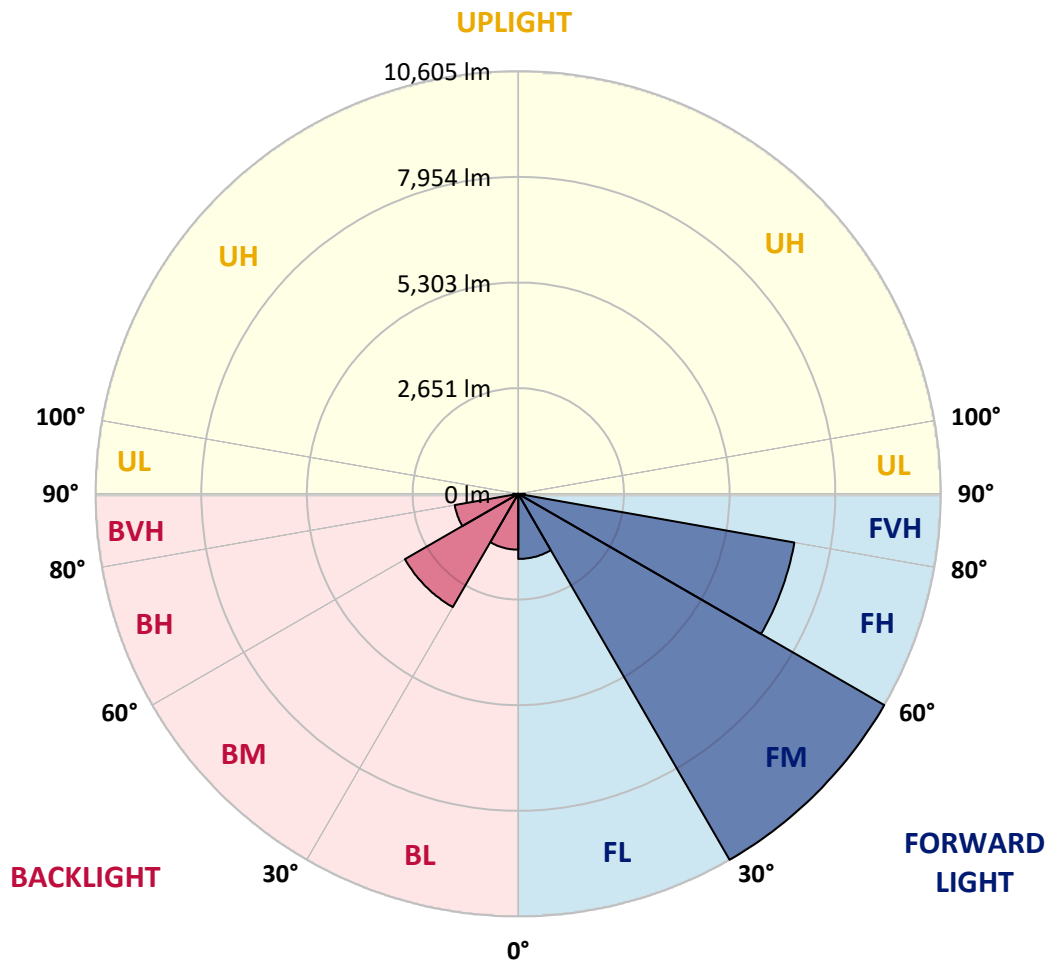
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.3	6.3			
FM (30°-60°)	10605.1	41.0			
FH (60°-80°)	7034.7	27.2			G3/7500
FVH (80°-90°)	169.4	0.7			G2/225
BL (0°-30°)	1401.7	5.4	B3/2500		
BM (30°-60°)	3284.4	12.7	B3/5000		
BH (60°-80°)	1619.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	129.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3
2.5°	2840.5	2856.8	2852.7	2845.9	2844.5	2847.2	2851.3	2855.3	2854.0	2860.9	2871.7
5°	2832.3	2848.6	2847.2	2847.2	2852.7	2863.5	2870.3	2877.2	2870.3	2878.5	2893.5
7.5°	2837.7	2849.9	2855.3	2860.9	2874.4	2894.8	2911.1	2926.1	2918.0	2927.5	2946.5
10°	2907.1	2916.5	2922.0	2922.0	2931.5	2954.7	2971.0	2998.1	2991.4	3006.3	3030.8
12.5°	3033.5	3043.0	3043.0	3037.6	3044.4	3059.3	3064.7	3094.7	3082.5	3107.0	3131.4
15°	3188.5	3207.5	3192.6	3183.0	3185.8	3200.8	3199.4	3222.5	3210.3	3230.7	3252.4
17.5°	3359.8	3384.3	3359.8	3358.5	3353.1	3369.4	3370.7	3391.1	3369.4	3384.3	3399.3
20°	3562.4	3596.4	3576.0	3582.8	3570.6	3577.4	3584.2	3614.2	3580.1	3591.0	3586.9
22.5°	3848.0	3888.7	3867.0	3892.8	3884.6	3879.2	3877.9	3930.9	3877.9	3882.0	3842.5
25°	4264.0	4313.0	4275.0	4310.2	4310.2	4328.0	4348.4	4416.3	4328.0	4302.1	4200.1
27.5°	4878.6	4927.6	4852.8	4874.6	4867.7	4911.3	4889.6	5058.1	4962.9	4920.8	4715.5
30°	5618.3	5705.4	5563.9	5558.5	5551.7	5621.0	5652.3	5763.8	5667.2	5625.1	5377.7
32.5°	6417.8	6509.0	6340.3	6291.3	6265.5	6307.6	6281.8	6371.6	6305.0	6239.7	5933.7
35°	7263.6	7353.4	7192.8	7097.7	6994.3	6905.9	6813.5	6836.6	6774.0	6674.8	6358.0
37.5°	8063.1	8227.6	8057.6	7955.6	7765.3	7592.6	7334.3	7226.9	7168.3	7077.3	6757.7
40°	8877.5	8971.3	8842.2	8755.1	8548.5	8277.9	7864.5	7637.5	7558.7	7470.2	7199.7
42.5°	9477.2	9566.9	9497.5	9437.8	9275.9	8961.9	8427.4	8143.3	8029.0	7929.8	7700.0
45°	9953.1	10019.7	9976.2	9998.0	9928.6	9624.0	9010.8	8685.8	8567.6	8446.5	8265.7
47.5°	10144.8	10215.5	10284.8	10414.0	10532.3	10307.9	9637.7	9273.2	9148.1	9024.4	8846.3
50°	10123.0	10195.1	10396.4	10671.0	11038.1	10963.3	10298.5	9898.6	9783.1	9641.7	9477.2
52.5°	9949.0	10030.5	10288.9	10745.8	11330.5	11454.2	10971.5	10544.6	10435.7	10267.1	10102.6
55°	9492.1	9541.1	9928.6	10575.8	11399.8	11796.8	11631.0	11232.6	11123.8	10888.6	10709.1
57.5°	8645.1	8715.8	9280.0	10117.6	11225.8	12029.3	12210.2	11955.9	11851.3	11512.7	11325.0
60°	7539.6	7652.4	8298.3	9348.0	10782.5	12028.0	12736.3	12667.1	12580.0	12127.3	11931.4
62.5°	6288.7	6419.2	7040.6	8260.3	10007.5	11686.7	13065.5	13262.6	13217.7	12694.2	12444.0
65°	4829.7	4919.4	5538.1	6852.9	8801.4	10953.8	13103.5	13669.2	13677.3	13125.2	12711.9
67.5°	3215.7	3474.0	4011.1	5142.4	7186.1	9755.9	12769.0	13735.8	13814.6	13273.4	12577.3
70°	1569.1	1909.1	2435.2	3342.1	5142.4	7918.9	11894.7	13189.2	13364.6	12841.1	11775.1
72.5°	651.3	761.5	1048.4	1649.3	2951.9	5343.6	10138.0	11707.1	12032.1	11378.0	9900.1
75°	439.2	475.9	599.6	845.7	1344.8	2635.1	7311.1	8729.3	9252.8	8593.4	7024.2
77.5°	338.6	361.7	436.4	591.4	799.5	996.7	3913.2	5260.7	5531.3	5120.7	3654.9
80°	266.5	284.1	326.4	431.0	567.0	533.0	1333.8	2383.5	2540.0	2130.7	1174.8
82.5°	231.1	237.9	233.9	292.3	376.7	311.4	437.8	879.8	970.9	704.4	383.5
85°	167.3	186.2	194.4	180.8	199.9	157.7	179.5	311.4	342.7	306.0	216.2
87.5°	68.0	100.7	123.7	117.0	73.4	44.9	55.8	91.1	104.7	114.2	70.7
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°	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3	2870.3
2.5°	2873.1	2882.6	2889.4	2897.6	2903.0	2911.1	2927.5	2936.9	2938.4	2945.1	2943.8
5°	2898.9	2912.5	2927.5	2949.2	2973.7	2994.1	3025.4	3047.1	3055.2	3062.1	3060.8
7.5°	2954.7	2973.7	3000.9	3038.9	3074.3	3101.4	3139.6	3165.4	3191.2	3200.8	3202.1
10°	3037.6	3064.7	3104.2	3155.9	3194.0	3229.3	3268.7	3290.5	3316.3	3327.3	3332.7
12.5°	3140.9	3169.5	3221.2	3293.2	3328.6	3353.1	3366.6	3361.2	3366.6	3376.1	3378.9
15°	3259.2	3290.5	3349.0	3426.5	3451.0	3429.1	3399.3	3372.0	3368.0	3370.7	3380.2
17.5°	3399.3	3422.4	3490.3	3555.6	3538.0	3448.2	3382.9	3339.4	3317.7	3310.9	3320.4
20°	3595.1	3595.1	3650.8	3691.6	3573.4	3421.0	3319.1	3248.3	3203.4	3184.5	3180.4
22.5°	3833.0	3811.3	3846.6	3818.0	3566.5	3344.9	3203.4	3081.1	3013.1	2985.9	2981.8
25°	4134.8	4109.0	4099.5	3922.8	3517.6	3223.8	2994.1	2845.9	2786.1	2771.1	2773.9
27.5°	4590.4	4525.1	4401.3	3979.9	3427.8	3033.5	2749.4	2612.0	2578.0	2579.4	2583.4
30°	5196.9	5066.3	4763.1	3989.4	3281.0	2764.3	2499.2	2401.3	2385.0	2391.7	2414.8
32.5°	5758.3	5634.6	5132.9	3945.8	3055.2	2500.5	2274.8	2209.5	2185.1	2193.2	2204.1
35°	6198.9	6165.0	5475.5	3884.6	2777.9	2253.1	2073.6	2017.8	1970.3	1959.4	1967.5
37.5°	6614.9	6601.4	5732.5	3799.1	2503.3	2077.7	1911.7	1838.3	1768.9	1730.9	1732.2
40°	7071.9	7058.3	5901.1	3667.1	2259.8	1925.4	1766.3	1669.7	1584.0	1514.7	1521.5
42.5°	7585.8	7505.6	5981.4	3478.1	2053.2	1796.2	1648.0	1517.4	1404.6	1340.7	1344.8
45°	8147.4	7966.5	5980.0	3237.5	1879.1	1677.9	1521.5	1336.6	1231.8	1172.1	1169.3
47.5°	8742.9	8407.0	5906.6	2971.0	1710.5	1547.3	1325.7	1184.3	1115.0	1078.3	1070.1
50°	9357.5	8819.1	5781.5	2665.0	1537.8	1399.1	1203.4	1106.8	1053.8	1019.8	1007.6
52.5°	9935.4	9193.0	5630.5	2318.3	1362.4	1255.0	1148.9	1074.2	1018.4	980.3	964.0
55°	10472.5	9515.3	5417.1	1963.4	1219.6	1158.5	1123.1	1060.6	996.7	951.8	934.1
57.5°	10949.8	9724.7	5048.6	1630.3	1117.7	1091.8	1095.9	1037.5	964.0	926.0	901.5
60°	11346.7	9878.3	4503.3	1321.6	1034.7	1026.5	1053.8	993.9	908.3	864.8	845.7
62.5°	11584.8	9875.6	3834.4	1082.3	964.0	966.8	998.0	939.5	852.5	811.7	799.5
65°	11564.4	9633.6	3100.1	926.0	896.1	898.7	939.5	879.8	806.3	781.9	780.4
67.5°	11155.1	9043.5	2378.1	824.0	821.2	833.5	881.1	839.0	777.8	775.0	779.1
70°	10046.8	7818.3	1713.2	742.4	743.7	761.5	824.0	813.1	762.8	768.2	766.9
72.5°	8056.3	5961.0	1150.4	656.7	658.0	686.6	769.6	792.7	747.8	819.9	830.8
75°	5365.4	3717.5	739.6	565.6	567.0	603.7	722.0	753.3	707.0	817.2	824.0
77.5°	2578.0	1671.1	535.8	475.9	475.9	509.9	624.1	674.4	602.4	635.0	582.0
80°	890.6	628.2	421.5	383.5	375.3	398.4	526.2	584.7	519.4	478.6	448.7
82.5°	350.8	326.4	338.6	297.8	270.6	285.6	409.3	482.7	382.1	345.3	344.0
85°	201.2	212.1	239.3	197.1	156.4	175.4	300.5	346.8	288.2	254.3	259.7
87.5°	54.4	74.8	110.2	102.0	70.7	74.8	142.8	191.7	165.8	127.8	131.9
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)