

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: P968172

Luminaire Tested: **NAV-SB5B-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968172
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-SB5B-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24101.8 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

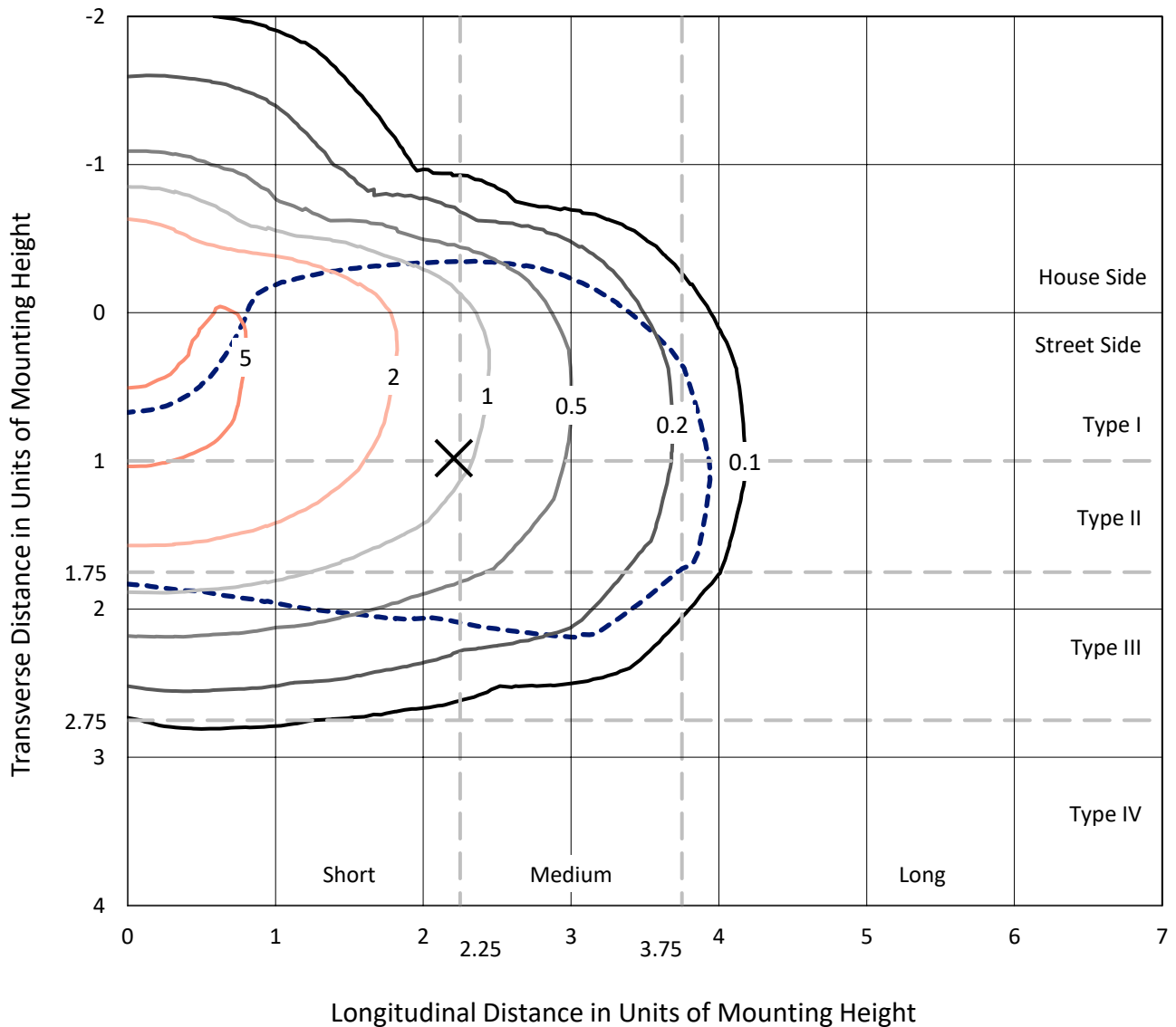
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

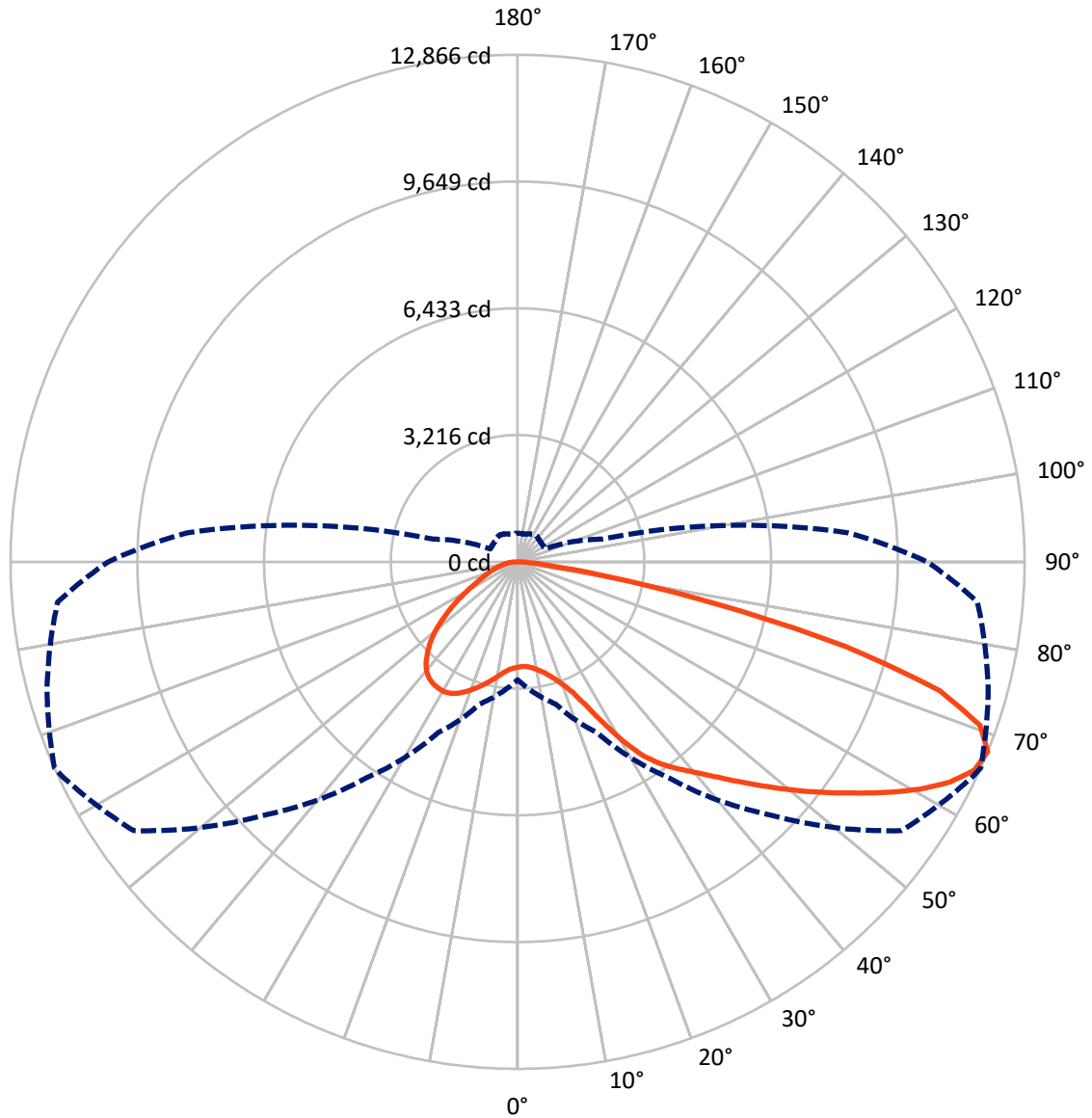
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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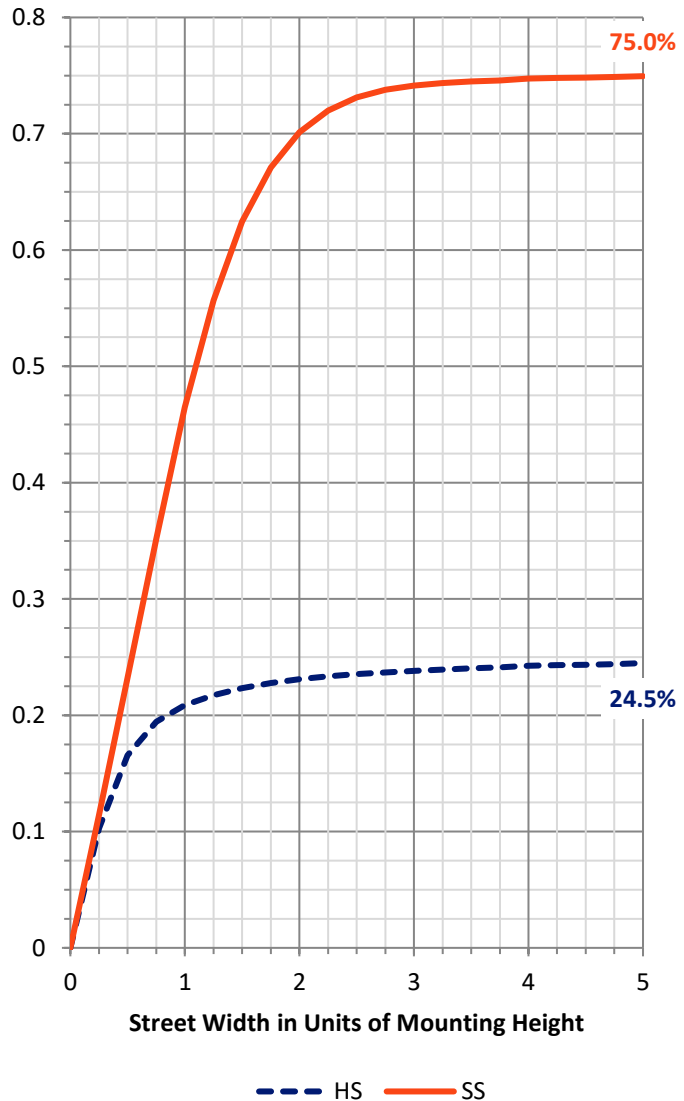
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5992.9	0.0	5992.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18109.0	0.0	18109.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	24101.8	0.0	24101.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.1
10°-20°	875.7	3.6
20°-30°	1687.8	7.0
30°-40°	2959.3	12.3
40°-50°	4399.5	18.3
50°-60°	5576.8	23.1
60°-70°	5456.7	22.6
70°-80°	2602.9	10.8
80°-90°	278.2	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°	24101.8	100.0
0°-180°	24101.8	100.0

Coefficient of Utilization



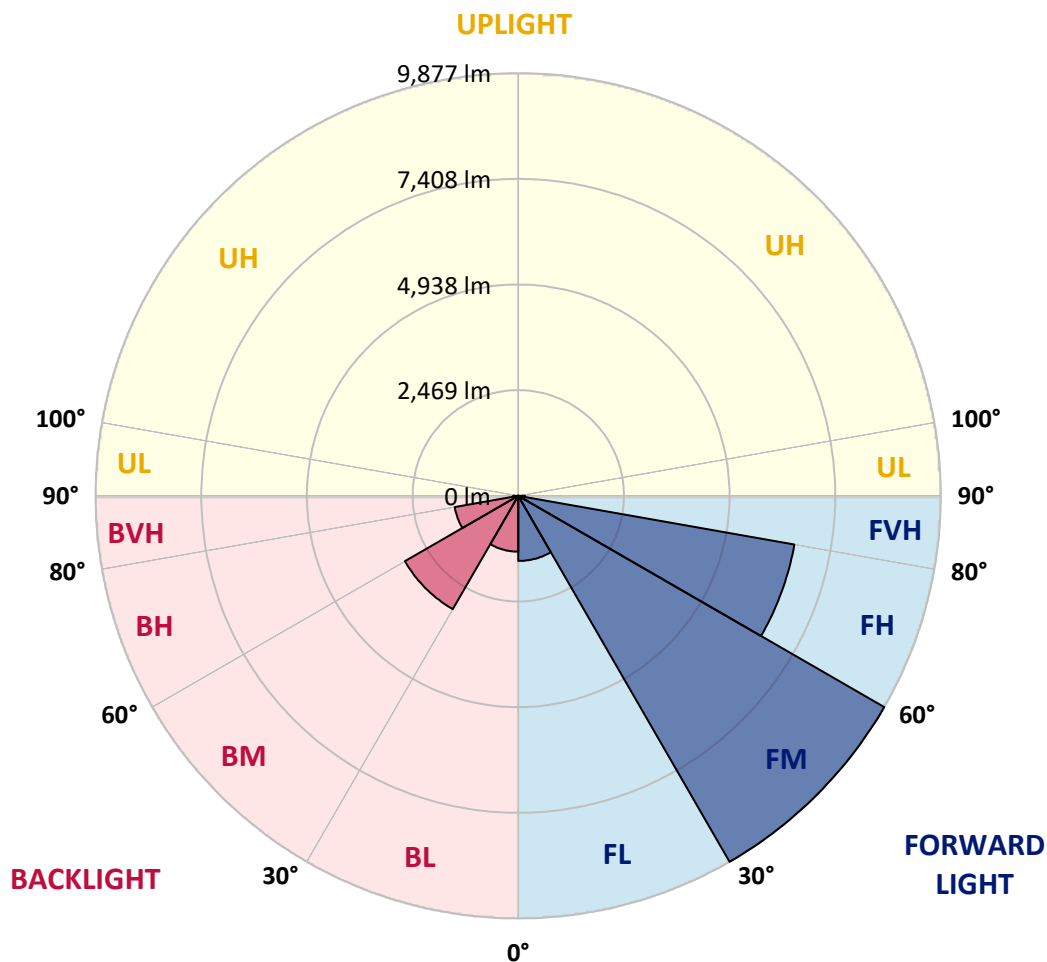
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.0	6.3			
FM (30°-60°)	9876.7	41.0			
FH (60°-80°)	6551.5	27.2			G3/7500
FVH (80°-90°)	157.7	0.7			G2/225
BL (0°-30°)	1305.5	5.4	B3/2500		
BM (30°-60°)	3058.8	12.7	B3/5000		
BH (60°-80°)	1508.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	120.5	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°	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2
2.5°	2645.3	2660.6	2656.8	2650.4	2649.1	2651.7	2655.5	2659.3	2658.0	2664.4	2674.4
5°	2637.7	2652.9	2651.7	2651.7	2656.8	2666.8	2673.2	2679.6	2673.2	2680.8	2694.7
7.5°	2642.9	2654.2	2659.3	2664.4	2677.0	2696.1	2711.2	2725.2	2717.6	2726.4	2744.1
10°	2707.4	2716.2	2721.4	2721.4	2730.2	2751.7	2766.9	2792.2	2786.0	2799.9	2822.6
12.5°	2825.2	2834.0	2834.0	2829.0	2835.3	2849.2	2854.3	2882.2	2870.7	2893.6	2916.3
15°	2969.5	2987.3	2973.3	2964.5	2967.0	2980.9	2979.7	3001.2	2989.8	3008.8	3029.1
17.5°	3129.1	3151.9	3129.1	3127.8	3122.8	3137.9	3139.3	3158.2	3137.9	3151.9	3165.8
20°	3317.8	3349.4	3330.4	3336.8	3325.4	3331.7	3338.0	3365.9	3334.2	3344.4	3340.6
22.5°	3583.7	3621.7	3601.4	3625.5	3617.9	3612.8	3611.6	3661.0	3611.6	3615.4	3578.7
25°	3971.2	4016.8	3981.3	4014.2	4014.2	4030.7	4049.7	4113.0	4030.7	4006.6	3911.7
27.5°	4543.6	4589.1	4519.5	4539.8	4533.5	4574.0	4553.7	4710.7	4622.1	4582.9	4391.6
30°	5232.4	5313.5	5181.8	5176.8	5170.4	5235.0	5264.1	5367.9	5278.0	5238.8	5008.4
32.5°	5977.1	6062.0	5904.9	5859.3	5835.2	5874.5	5850.4	5934.0	5871.9	5811.1	5526.3
35°	6764.7	6848.3	6698.9	6610.2	6514.0	6431.7	6345.6	6367.1	6308.9	6216.4	5921.3
37.5°	7509.4	7662.5	7504.2	7409.3	7232.0	7071.2	6830.6	6730.6	6676.0	6591.3	6293.6
40°	8267.9	8355.2	8235.0	8153.9	7961.4	7709.4	7324.4	7113.0	7039.5	6957.2	6705.2
42.5°	8826.3	8909.9	8845.2	8789.6	8638.9	8346.4	7848.7	7584.0	7477.7	7385.2	7171.2
45°	9269.5	9331.6	9291.0	9311.3	9246.7	8963.0	8392.0	8089.3	7979.1	7866.5	7698.0
47.5°	9448.0	9513.9	9578.5	9698.8	9808.9	9600.0	8975.7	8636.3	8519.8	8404.6	8238.7
50°	9427.7	9494.9	9682.4	9938.1	10280.0	10210.4	9591.1	9218.8	9111.2	8979.5	8826.3
52.5°	9265.7	9341.6	9582.3	10007.8	10552.3	10667.5	10218.0	9820.3	9719.0	9562.0	9408.8
55°	8840.2	8885.8	9246.7	9849.5	10616.8	10986.7	10832.2	10461.2	10359.8	10140.7	9973.6
57.5°	8051.3	8117.2	8642.7	9422.7	10454.8	11203.1	11371.6	11134.8	11037.3	10722.0	10547.2
60°	7021.8	7126.9	7728.4	8705.9	10041.9	11201.9	11861.7	11797.1	11716.1	11294.4	11112.0
62.5°	5856.7	5978.3	6557.0	7692.9	9320.1	10884.1	12168.1	12351.8	12309.9	11822.5	11589.4
65°	4498.0	4581.5	5157.7	6382.3	8196.9	10201.5	12203.5	12730.4	12738.0	12223.8	11838.9
67.5°	2994.8	3235.4	3735.6	4789.2	6692.5	9085.9	11892.0	12792.4	12865.9	12361.9	11713.5
70°	1461.3	1778.0	2268.0	3112.6	4789.2	7375.1	11077.8	12283.4	12446.7	11959.2	10966.4
72.5°	606.6	709.1	976.3	1536.1	2749.2	4976.7	9441.7	10903.0	11205.7	10596.7	9220.1
75°	409.0	443.2	558.4	787.6	1252.3	2454.2	6809.1	8129.8	8617.4	8003.2	6541.9
77.5°	315.3	336.8	406.5	550.8	744.6	928.2	3644.5	4899.4	5151.4	4769.0	3403.9
80°	248.2	264.7	303.9	401.4	528.1	496.4	1242.3	2219.8	2365.5	1984.3	1094.1
82.5°	215.2	221.6	217.8	272.2	350.8	290.0	407.7	819.3	904.2	656.0	357.1
85°	155.8	173.5	181.1	168.4	186.1	146.9	167.2	290.0	319.1	285.0	201.3
87.5°	63.3	93.7	115.2	108.9	68.4	41.8	52.0	84.9	97.5	106.4	65.8
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°	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2
2.5°	2675.8	2684.6	2690.9	2698.5	2703.6	2711.2	2726.4	2735.2	2736.5	2742.9	2741.6
5°	2699.8	2712.5	2726.4	2746.7	2769.4	2788.4	2817.6	2837.8	2845.4	2851.8	2850.5
7.5°	2751.7	2769.4	2794.8	2830.2	2863.1	2888.4	2923.9	2948.0	2972.1	2980.9	2982.2
10°	2829.0	2854.3	2891.0	2939.2	2974.5	3007.6	3044.2	3064.5	3088.5	3098.7	3103.8
12.5°	2925.2	2951.8	3000.0	3067.0	3100.0	3122.8	3135.4	3130.4	3135.4	3144.3	3146.9
15°	3035.3	3064.5	3119.0	3191.1	3213.9	3193.7	3165.8	3140.5	3136.7	3139.3	3148.1
17.5°	3165.8	3187.3	3250.7	3311.5	3295.0	3211.4	3150.6	3110.1	3089.9	3083.5	3092.3
20°	3348.2	3348.2	3400.1	3438.1	3327.9	3186.1	3091.1	3025.3	2983.5	2965.7	2961.9
22.5°	3569.8	3549.5	3582.5	3555.8	3321.6	3115.2	2983.5	2869.5	2806.1	2780.8	2777.0
25°	3850.9	3826.8	3818.0	3653.3	3276.0	3002.4	2788.4	2650.4	2594.7	2580.7	2583.3
27.5°	4275.1	4214.3	4099.1	3706.5	3192.4	2825.2	2560.6	2432.6	2401.0	2402.2	2406.0
30°	4839.9	4718.3	4435.9	3715.4	3055.6	2574.4	2327.5	2236.3	2221.2	2227.4	2249.0
32.5°	5362.9	5247.7	4780.4	3674.8	2845.4	2328.8	2118.6	2057.8	2035.0	2042.6	2052.7
35°	5773.2	5741.5	5099.5	3617.9	2587.1	2098.3	1931.1	1879.2	1835.0	1824.8	1832.4
37.5°	6160.7	6148.1	5338.8	3538.1	2331.3	1935.0	1780.4	1712.1	1647.5	1612.0	1613.4
40°	6586.1	6573.5	5495.8	3415.3	2104.6	1793.1	1644.9	1555.0	1475.3	1410.7	1417.1
42.5°	7064.8	6990.1	5570.6	3239.3	1912.1	1672.8	1534.8	1413.3	1308.1	1248.6	1252.3
45°	7587.9	7419.4	5569.3	3015.1	1750.1	1562.6	1417.1	1244.8	1147.3	1091.5	1089.1
47.5°	8142.5	7829.7	5501.0	2766.9	1593.1	1441.0	1234.7	1103.0	1038.4	1004.2	996.6
50°	8714.9	8213.4	5384.4	2482.0	1432.2	1303.1	1120.7	1030.7	981.4	949.8	938.4
52.5°	9253.1	8561.6	5243.9	2159.1	1268.8	1168.8	1070.0	1000.4	948.4	913.1	897.8
55°	9753.3	8861.7	5045.0	1828.6	1135.9	1078.9	1046.0	987.7	928.2	886.4	869.9
57.5°	10197.7	9056.8	4701.9	1518.3	1040.9	1016.9	1020.7	966.2	897.8	862.3	839.6
60°	10567.4	9199.9	4194.1	1230.8	963.7	956.1	981.4	925.7	845.9	805.3	787.6
62.5°	10789.0	9197.3	3571.0	1008.0	897.8	900.4	929.5	875.0	794.0	756.0	744.6
65°	10770.1	8971.9	2887.2	862.3	834.6	837.0	875.0	819.3	750.9	728.2	726.8
67.5°	10388.9	8422.3	2214.8	767.4	764.9	776.2	820.6	781.4	724.4	721.8	725.6
70°	9356.9	7281.4	1595.6	691.5	692.7	709.1	767.4	757.3	710.4	715.4	714.2
72.5°	7503.0	5551.6	1071.3	611.6	612.9	639.5	716.8	738.3	696.5	763.6	773.8
75°	4996.9	3462.1	688.9	526.7	528.1	562.2	672.4	701.5	658.5	761.1	767.4
77.5°	2401.0	1556.4	499.0	443.2	443.2	474.9	581.3	628.1	561.0	591.4	542.0
80°	829.4	585.1	392.6	357.1	349.5	371.0	490.1	544.5	483.7	445.8	417.9
82.5°	326.7	303.9	315.3	277.4	252.0	265.9	381.2	449.6	355.9	321.6	320.4
85°	187.4	197.5	222.8	183.6	145.7	163.4	279.8	322.9	268.4	236.8	241.9
87.5°	50.6	69.6	102.6	95.0	65.8	69.6	132.9	178.6	154.5	119.0	122.8
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)