

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: P965012

Luminaire Tested: **NAV-SB3D-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965012  
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-SB3D-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25552.2 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

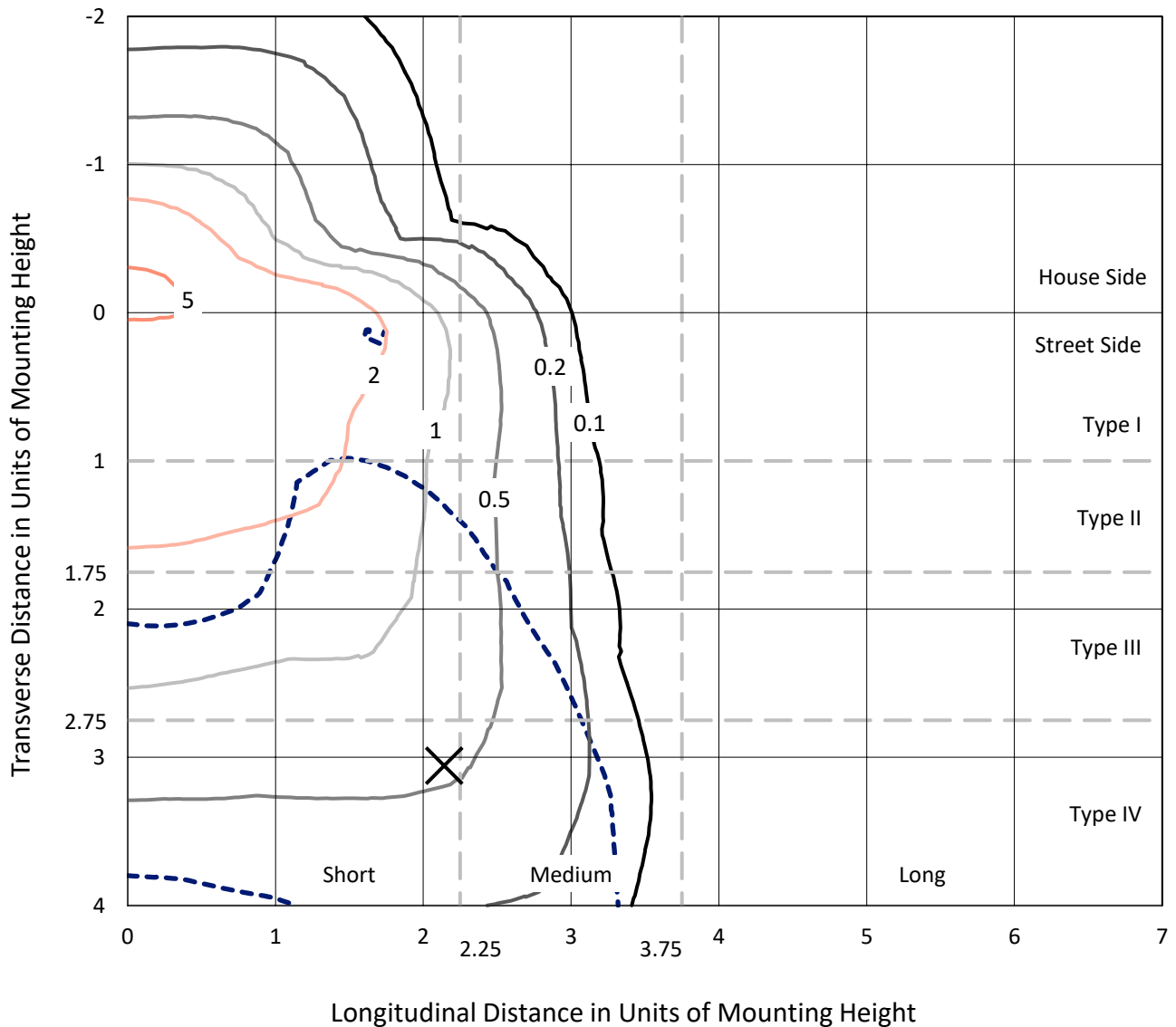
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

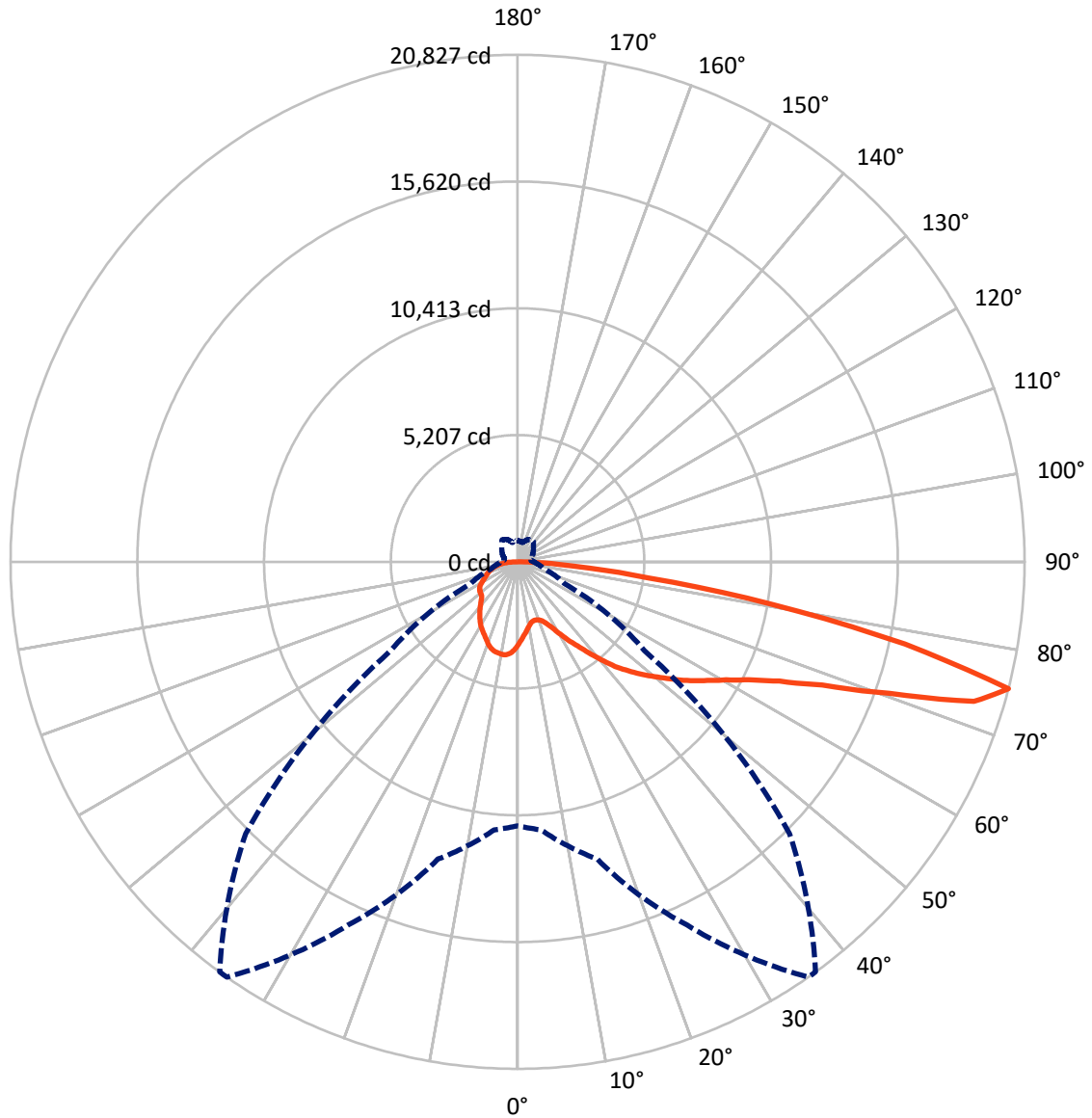
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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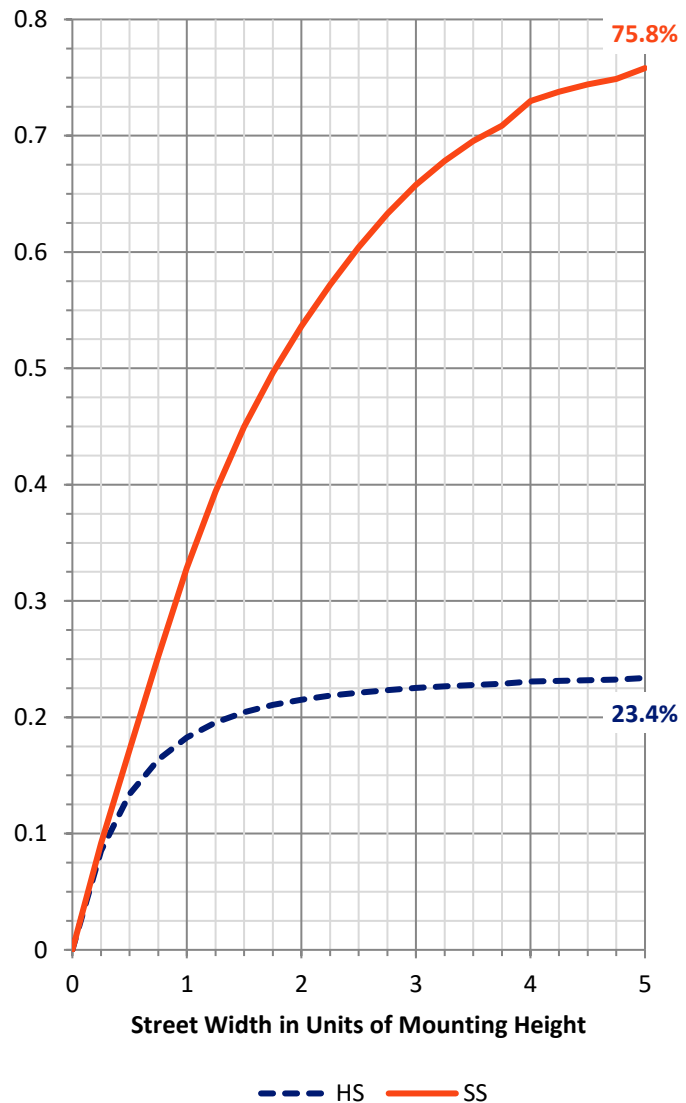
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6080.8	0.0	6080.8
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	19471.4	0.0	19471.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	25552.2	0.0	25552.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.4	1.3
10°-20°	929.9	3.6
20°-30°	1561.5	6.1
30°-40°	2426.9	9.5
40°-50°	3602.1	14.1
50°-60°	4972.9	19.5
60°-70°	6033.3	23.6
70°-80°	4986.1	19.5
80°-90°	717.1	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°	25552.2	100.0
0°-180°	25552.2	100.0

**Coefficient of Utilization**

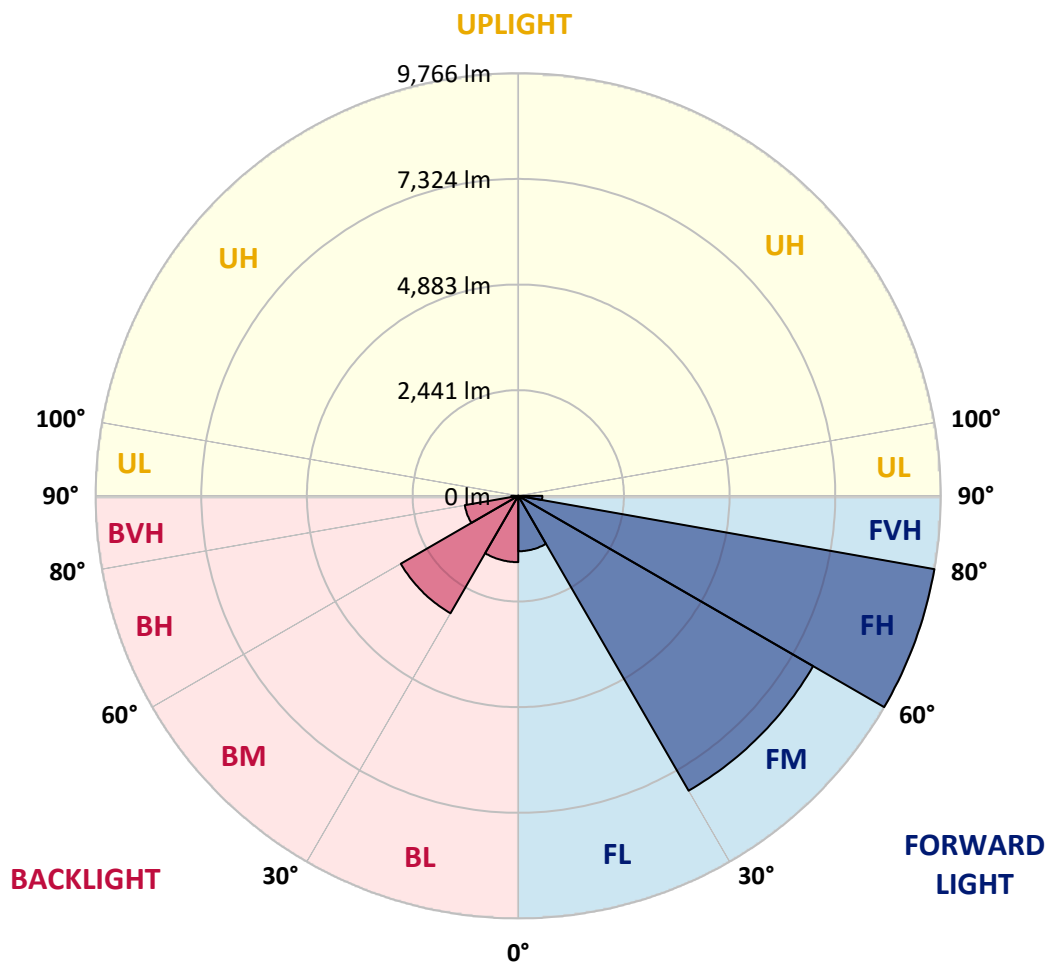


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.4	5.0			
FM (30°-60°)	7868.7	30.8			
FH (60°-80°)	9765.7	38.2			G4/12000
FVH (80°-90°)	555.7	2.2			G4/750
BL (0°-30°)	1532.4	6.0	B3/2500		
BM (30°-60°)	3133.2	12.3	B3/5000		
BH (60°-80°)	1253.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	161.5	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°	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0
2.5°	3139.8	3159.2	3167.5	3163.3	3184.0	3181.2	3210.2	3246.2	3295.9	3344.3	3414.7
5°	2898.1	2918.8	2936.7	2953.3	2993.4	3005.8	3051.4	3120.4	3211.6	3304.2	3420.2
7.5°	2672.9	2690.8	2718.5	2748.8	2816.6	2829.0	2905.0	3012.7	3139.8	3275.2	3435.4
10°	2489.2	2507.1	2536.2	2570.7	2655.0	2670.1	2766.8	2910.5	3076.2	3247.5	3452.0
12.5°	2410.4	2415.9	2432.5	2467.1	2540.3	2550.0	2656.3	2820.7	3014.1	3226.8	3476.8
15°	2406.3	2417.4	2418.7	2436.7	2497.5	2501.6	2599.7	2762.7	2975.4	3222.7	3514.1
17.5°	2447.7	2456.0	2443.6	2454.7	2505.7	2512.7	2590.0	2735.0	2963.0	3240.6	3577.7
20°	2558.2	2565.2	2527.9	2512.7	2550.0	2555.5	2631.5	2753.0	2975.4	3278.0	3664.7
22.5°	2793.0	2797.2	2706.0	2643.9	2646.7	2649.4	2715.7	2826.2	3023.7	3345.6	3775.2
25°	3159.2	3156.4	3011.3	2891.1	2822.0	2806.9	2851.1	2945.0	3105.2	3435.4	3917.4
27.5°	3587.3	3566.6	3421.6	3242.0	3091.4	3069.4	3059.6	3099.7	3221.3	3554.2	4091.5
30°	4070.8	4051.5	3895.4	3660.6	3452.0	3416.0	3324.9	3304.2	3394.0	3715.8	4333.3
32.5°	4601.2	4588.8	4402.4	4117.7	3838.7	3797.3	3644.0	3588.7	3659.1	3960.3	4670.3
35°	5046.1	5035.0	4880.2	4587.4	4246.3	4195.1	4039.0	3976.9	4012.8	4273.8	5111.0
37.5°	5448.0	5442.4	5309.9	5079.2	4727.0	4664.8	4489.4	4468.6	4461.7	4686.9	5645.5
40°	5821.0	5807.1	5669.1	5547.5	5286.4	5229.8	5075.1	5057.0	5004.6	5195.2	6250.6
42.5°	6233.9	6198.1	5997.8	5941.1	5870.7	5823.7	5731.2	5734.0	5617.9	5768.5	6891.5
45°	6571.1	6550.4	6344.5	6311.3	6387.3	6368.0	6448.1	6468.8	6243.7	6369.3	7557.3
47.5°	6933.0	6913.6	6739.6	6716.1	6921.9	6927.5	7210.6	7217.5	6854.2	6993.8	8224.5
50°	7379.1	7351.5	7178.8	7207.8	7438.5	7459.2	7977.3	7930.3	7416.4	7627.7	8886.1
52.5°	7673.4	7690.0	7652.6	7699.6	8014.6	8033.8	8731.5	8611.3	7973.1	8253.5	9535.4
55°	7890.2	7923.4	8039.4	8147.1	8622.3	8641.7	9442.8	9259.1	8434.5	8833.7	10146.0
57.5°	8169.2	8122.3	8339.2	8549.1	9199.8	9250.8	10134.9	9883.5	8843.4	9333.8	10564.5
60°	8569.8	8536.7	8705.2	9016.0	9846.3	9927.7	10867.0	10445.7	9143.1	9730.1	10646.0
62.5°	9382.0	9299.2	9325.4	9600.4	10661.2	10769.0	11693.1	10936.0	9292.2	9884.9	10209.5
65°	10596.2	10454.0	10321.3	10512.0	11809.1	11915.4	12625.4	11321.4	9237.0	9585.1	9050.5
67.5°	12125.4	11984.5	11821.5	12001.1	13499.9	13584.1	13776.1	11538.3	8801.9	8430.3	7002.0
70°	13386.6	13334.1	13528.9	14267.9	16200.3	16203.1	15251.4	11358.7	7609.8	5977.1	4051.5
72.5°	13219.4	13187.6	14214.0	16498.7	19604.0	19530.8	16647.9	9999.5	5126.1	2696.4	1518.1
75°	10844.9	11050.7	12640.6	16458.7	20826.5	20816.8	15792.9	6356.9	2120.3	1117.5	784.6
77.5°	5815.4	6141.5	8206.6	12151.7	16258.3	16502.9	11103.2	2223.9	910.3	715.6	542.8
80°	1896.6	2181.1	3271.0	6187.0	10564.5	10519.0	4758.8	873.0	623.0	507.0	375.8
82.5°	805.3	838.4	1461.4	2921.6	5421.7	5337.5	1515.4	501.4	437.9	346.8	232.1
85°	315.0	352.3	645.1	1350.9	2348.3	2297.1	547.0	248.7	280.4	226.5	138.2
87.5°	103.6	125.7	230.7	462.8	730.7	704.5	134.0	85.7	121.6	103.6	49.7
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°	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0	3405.0
2.5°	3434.1	3456.1	3482.3	3521.1	3554.2	3581.9	3610.9	3628.8	3635.7	3656.4	3655.0
5°	3458.9	3507.2	3572.1	3635.7	3697.9	3735.1	3768.3	3784.9	3800.1	3811.2	3813.9
7.5°	3500.3	3562.5	3664.7	3747.6	3800.1	3830.4	3852.6	3847.0	3852.6	3855.3	3859.4
10°	3536.2	3623.3	3744.8	3823.6	3863.6	3865.0	3859.4	3840.2	3830.4	3831.9	3834.6
12.5°	3579.1	3675.8	3807.0	3873.3	3884.3	3853.9	3830.4	3797.3	3784.9	3779.4	3776.6
15°	3637.1	3747.6	3874.7	3899.5	3871.9	3833.2	3793.1	3739.3	3711.6	3689.6	3696.5
17.5°	3707.5	3829.1	3927.2	3909.2	3849.8	3786.2	3721.4	3639.9	3583.2	3559.7	3561.1
20°	3805.6	3914.7	3967.3	3888.4	3798.6	3702.0	3591.5	3492.1	3439.5	3416.0	3413.2
22.5°	3924.4	4029.4	4005.9	3852.6	3725.5	3570.8	3432.6	3359.4	3333.2	3316.6	3319.4
25°	4066.7	4156.5	4033.5	3800.1	3605.3	3396.7	3290.4	3266.9	3254.5	3242.0	3242.0
27.5°	4251.8	4300.1	4054.3	3722.7	3417.5	3211.6	3173.0	3177.1	3173.0	3152.2	3156.4
30°	4496.3	4486.6	4073.6	3597.0	3202.0	3044.5	3047.2	3065.2	3067.9	3054.2	3061.1
32.5°	4818.1	4720.0	4083.3	3434.1	2996.2	2898.1	2900.9	2920.1	2934.0	2910.5	2921.6
35°	5207.6	4992.2	4068.0	3229.6	2837.3	2758.6	2737.8	2743.3	2747.5	2725.4	2740.5
37.5°	5662.1	5297.4	4000.4	3003.0	2706.0	2621.7	2577.6	2540.3	2518.2	2497.5	2511.2
40°	6160.8	5630.3	3876.0	2782.1	2559.6	2476.7	2410.4	2340.0	2265.4	2237.8	2250.2
42.5°	6682.9	5972.9	3725.5	2570.7	2391.1	2323.4	2253.0	2150.8	2038.8	1982.2	1989.1
45°	7224.4	6323.7	3577.7	2362.1	2218.4	2189.4	2107.9	1985.0	1863.4	1791.6	1786.1
47.5°	7754.8	6655.3	3360.8	2152.1	2056.9	2088.5	2025.1	1911.7	1776.4	1663.2	1650.7
50°	8261.8	6966.1	3005.8	1939.4	1925.6	2058.2	1997.4	1834.4	1679.7	1534.6	1522.2
52.5°	8764.6	7217.5	2551.3	1746.0	1855.1	2049.9	1961.5	1782.0	1592.6	1440.7	1424.1
55°	9191.5	7347.4	2113.4	1580.2	1753.0	1979.5	1918.7	1719.7	1469.7	1308.1	1294.3
57.5°	9434.6	7242.3	1748.8	1417.3	1612.0	1863.4	1845.5	1587.2	1323.3	1199.0	1182.4
60°	9329.6	6817.0	1450.4	1275.0	1478.0	1737.7	1718.4	1455.9	1211.4	1094.0	1077.5
62.5°	8750.8	6006.1	1214.2	1150.7	1356.5	1609.2	1591.3	1355.0	1125.8	1012.5	994.6
65°	7584.9	4885.8	1030.4	1047.0	1233.6	1454.6	1480.8	1270.8	1058.1	947.6	929.7
67.5°	5785.1	3539.0	886.8	957.2	1113.4	1302.6	1378.6	1210.0	1001.4	896.5	880.0
70°	3297.2	2009.8	765.3	870.2	1007.0	1161.7	1299.8	1161.7	940.6	853.6	842.7
72.5°	1250.1	922.7	661.6	783.2	904.8	1042.9	1212.8	1085.8	870.2	805.3	794.3
75°	667.2	562.2	556.7	681.0	787.4	926.9	1103.7	1011.2	817.7	851.0	878.5
77.5°	454.5	397.8	465.6	582.9	658.9	798.4	987.7	897.9	708.6	705.8	650.6
80°	315.0	281.8	378.5	469.7	509.7	671.4	861.9	770.8	577.4	538.7	515.3
82.5°	189.2	183.7	283.2	350.9	360.5	518.0	714.1	646.5	472.4	411.6	414.4
85°	103.6	109.2	180.9	205.8	209.9	361.9	559.4	500.0	363.3	305.2	308.0
87.5°	29.0	37.3	66.3	81.5	100.9	187.9	332.9	296.9	182.3	127.1	127.1
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)