

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: P969786

Luminaire Tested: **NAV-SB6A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969786
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-SB6A-727-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25560.4 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

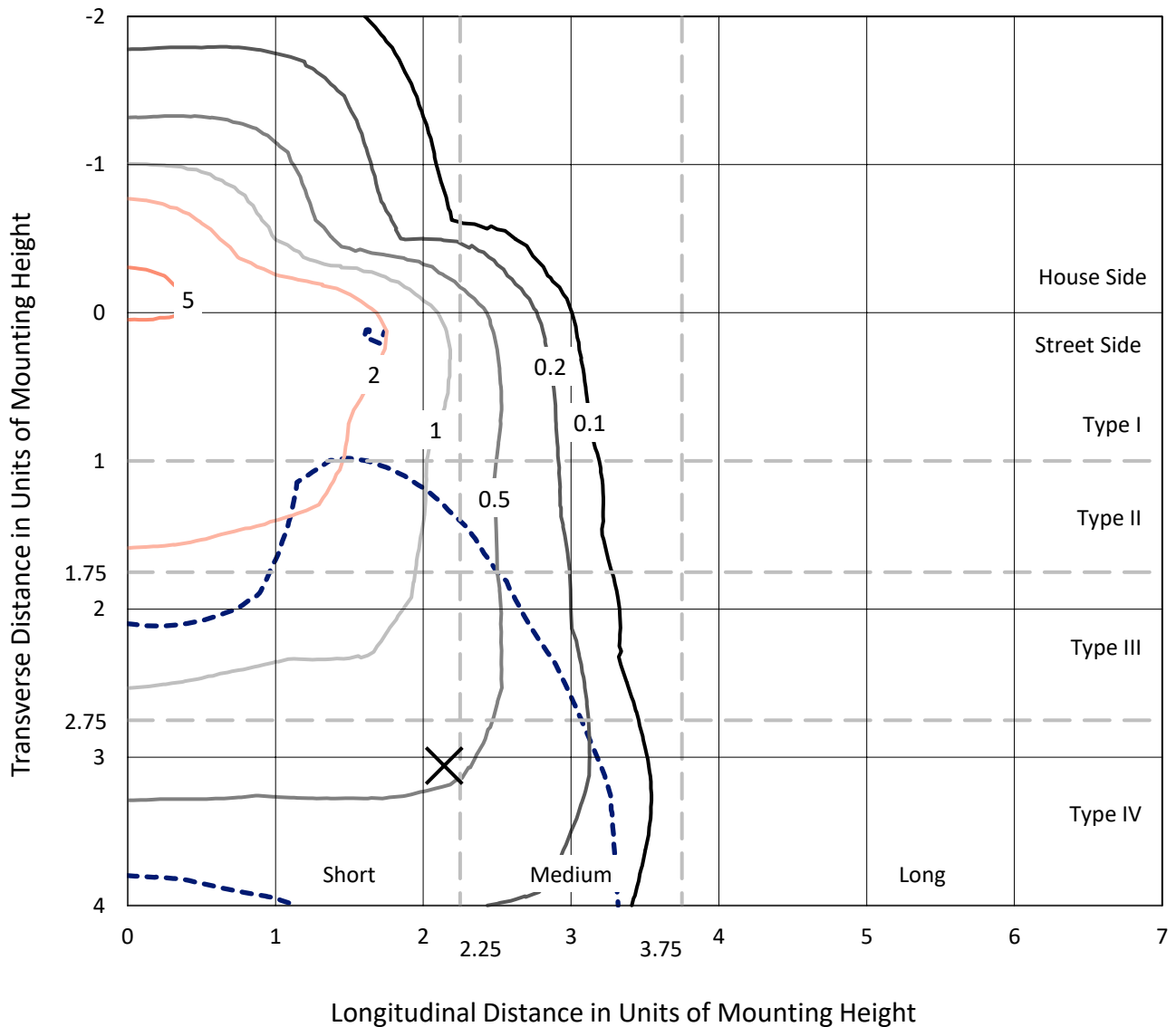
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

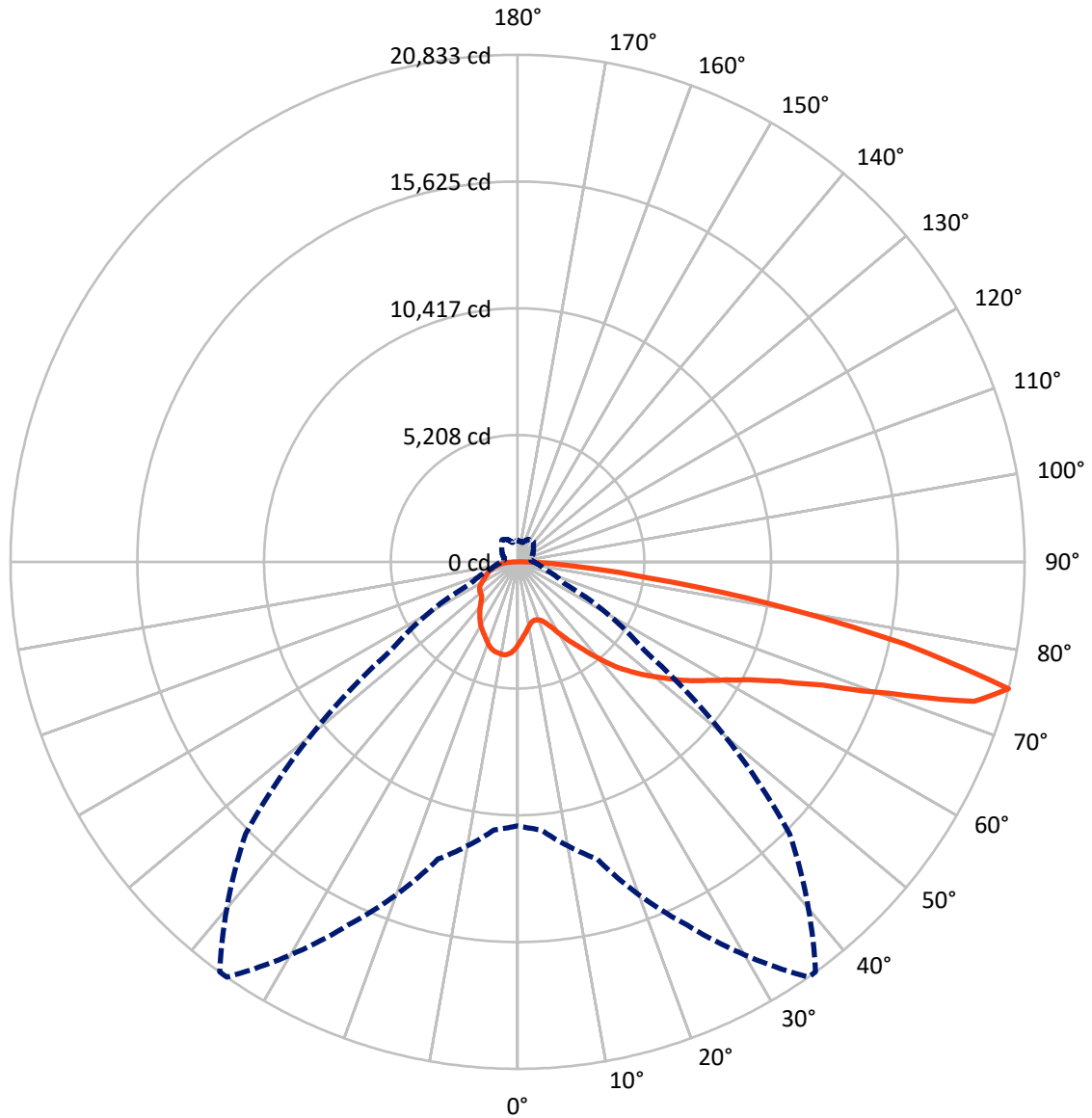
× Max cd
 - - - 1/2 Max cd



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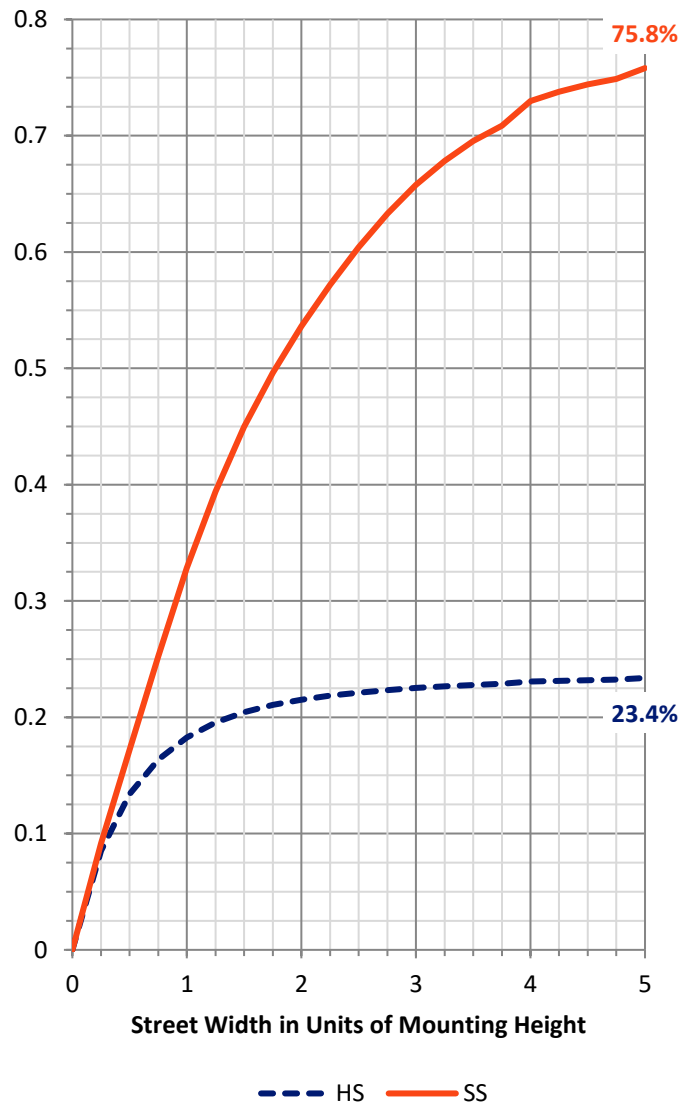
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6082.7	0.0	6082.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	19477.7	0.0	19477.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	25560.4	0.0	25560.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.5	1.3
10°-20°	930.2	3.6
20°-30°	1562.0	6.1
30°-40°	2427.6	9.5
40°-50°	3603.3	14.1
50°-60°	4974.5	19.5
60°-70°	6035.2	23.6
70°-80°	4987.7	19.5
80°-90°	717.4	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°	25560.4	100.0
0°-180°	25560.4	100.0

Coefficient of Utilization

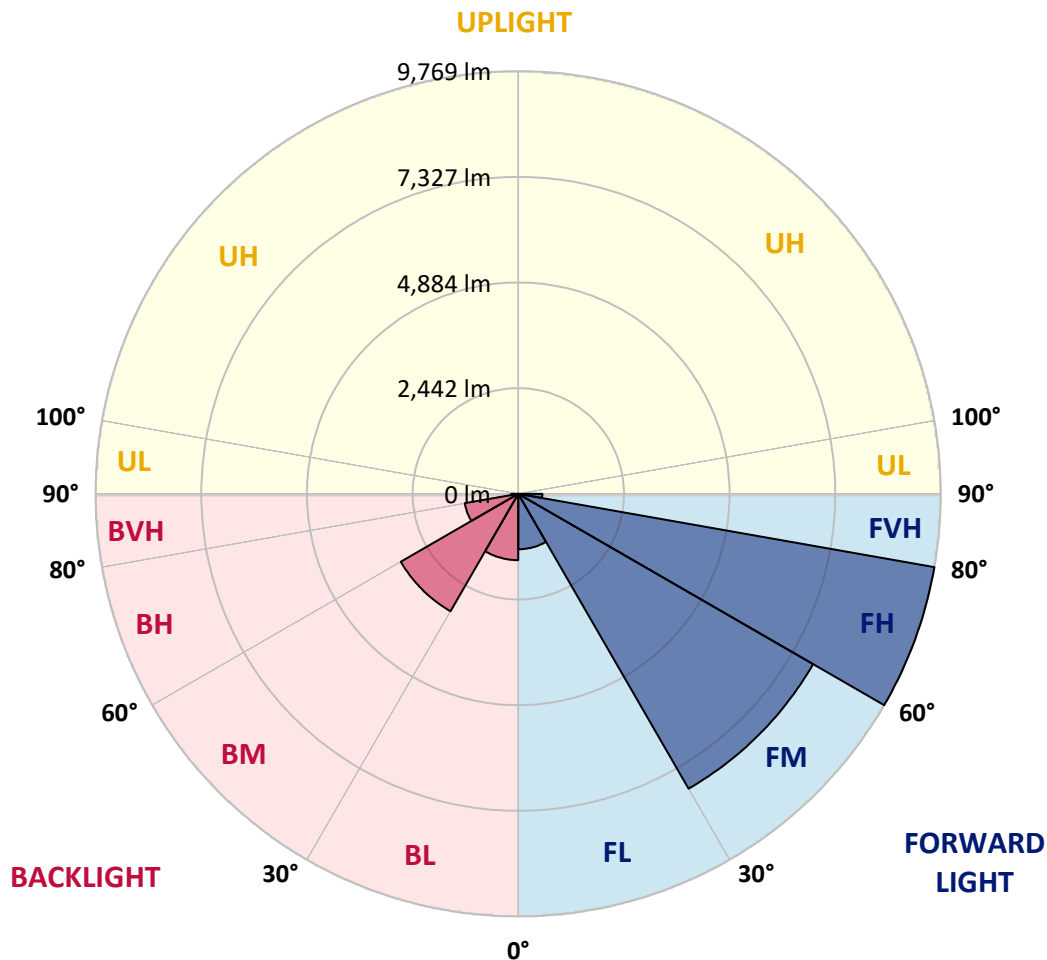


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.8	5.0			
FM (30°-60°)	7871.2	30.8			
FH (60°-80°)	9768.8	38.2			G4/12000
FVH (80°-90°)	555.8	2.2			G4/750
BL (0°-30°)	1532.9	6.0	B3/2500		
BM (30°-60°)	3134.2	12.3	B3/5000		
BH (60°-80°)	1254.1	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°	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1
2.5°	3140.8	3160.2	3168.5	3164.3	3185.0	3182.2	3211.2	3247.2	3296.9	3345.3	3415.8
5°	2899.0	2919.7	2937.6	2954.3	2994.3	3006.7	3052.3	3121.4	3212.7	3305.2	3421.3
7.5°	2673.7	2691.8	2719.3	2749.8	2817.4	2829.9	2905.9	3013.7	3140.8	3276.2	3436.5
10°	2489.9	2508.0	2537.0	2571.5	2655.8	2670.9	2767.7	2911.4	3077.3	3248.5	3453.1
12.5°	2411.2	2416.7	2433.4	2467.9	2541.1	2550.8	2657.2	2821.6	3015.0	3227.8	3477.9
15°	2407.1	2418.1	2419.5	2437.4	2498.2	2502.4	2600.5	2763.6	2976.4	3223.7	3515.2
17.5°	2448.5	2456.8	2444.4	2455.4	2506.5	2513.5	2590.9	2735.9	2963.9	3241.7	3578.8
20°	2559.0	2566.0	2528.7	2513.5	2550.8	2556.4	2632.3	2753.9	2976.4	3279.0	3665.9
22.5°	2793.9	2798.1	2706.9	2644.7	2647.5	2650.2	2716.6	2827.2	3024.8	3346.7	3776.4
25°	3160.2	3157.4	3012.3	2892.0	2823.0	2807.8	2852.0	2946.0	3106.3	3436.5	3918.8
27.5°	3588.5	3567.7	3422.7	3243.1	3092.4	3070.3	3060.6	3100.7	3222.3	3555.3	4092.8
30°	4072.1	4052.7	3896.6	3661.7	3453.1	3417.1	3325.9	3305.2	3395.0	3717.0	4334.6
32.5°	4602.8	4590.3	4403.7	4119.1	3840.0	3798.5	3645.1	3589.9	3660.4	3961.6	4671.8
35°	5047.6	5036.6	4881.9	4588.9	4247.6	4196.5	4040.3	3978.1	4014.1	4275.3	5112.6
37.5°	5449.7	5444.2	5311.5	5080.8	4728.4	4666.3	4490.8	4470.0	4463.2	4688.3	5647.3
40°	5822.8	5809.0	5670.8	5549.2	5288.1	5231.4	5076.7	5058.7	5006.2	5196.9	6252.6
42.5°	6236.0	6200.0	5999.7	5943.1	5872.6	5825.6	5733.0	5735.8	5619.8	5770.3	6893.7
45°	6573.1	6552.4	6346.5	6313.4	6389.3	6370.1	6450.2	6470.9	6245.6	6371.4	7559.8
47.5°	6935.2	6915.9	6741.7	6718.3	6924.1	6929.6	7212.9	7219.8	6856.4	6995.9	8227.2
50°	7381.5	7353.9	7181.2	7210.2	7440.9	7461.6	7979.8	7932.8	7418.8	7630.2	8889.0
52.5°	7675.8	7692.4	7655.1	7702.1	8017.1	8036.4	8734.2	8614.0	7975.6	8256.2	9538.4
55°	7892.7	7925.9	8041.9	8149.8	8625.1	8644.4	9445.9	9262.1	8437.2	8836.5	10149.2
57.5°	8171.9	8124.9	8341.9	8551.9	9202.7	9253.8	10138.2	9886.6	8846.2	9336.7	10567.9
60°	8572.6	8539.5	8708.0	9018.9	9849.3	9930.9	10870.5	10449.1	9146.1	9733.3	10649.4
62.5°	9385.1	9302.2	9328.4	9603.4	10664.6	10772.4	11696.8	10939.6	9295.3	9888.1	10212.8
65°	10599.6	10457.4	10324.7	10515.4	11812.9	11919.3	12629.5	11325.1	9240.0	9588.2	9053.4
67.5°	12129.3	11988.4	11825.3	12004.9	13504.2	13588.4	13780.5	11542.0	8804.8	8433.0	7004.2
70°	13390.9	13338.3	13533.2	14272.4	16205.6	16208.3	15256.3	11362.4	7612.3	5979.0	4052.7
72.5°	13223.7	13191.9	14218.6	16504.0	19610.3	19537.0	16653.3	10002.8	5127.8	2697.3	1518.5
75°	10848.4	11054.3	12644.7	16464.0	20833.1	20823.5	15797.9	6359.0	2121.0	1117.9	784.8
77.5°	5817.3	6143.4	8209.2	12155.6	16263.6	16508.1	11106.8	2224.7	910.6	715.8	543.0
80°	1897.2	2181.8	3272.1	6189.1	10567.9	10522.3	4760.2	873.3	623.2	507.1	375.9
82.5°	805.5	838.8	1462.0	2922.5	5423.5	5339.2	1515.8	501.6	438.0	346.9	232.2
85°	315.1	352.4	645.3	1351.4	2349.0	2297.9	547.1	248.8	280.5	226.6	138.2
87.5°	103.6	125.8	230.7	462.9	730.9	704.7	134.1	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°	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1	3406.1
2.5°	3435.1	3457.2	3483.5	3522.2	3555.3	3583.0	3612.0	3629.9	3636.9	3657.6	3656.2
5°	3460.0	3508.4	3573.3	3636.9	3699.0	3736.3	3769.5	3786.0	3801.3	3812.4	3815.2
7.5°	3501.4	3563.6	3665.9	3748.7	3801.3	3831.7	3853.8	3848.3	3853.8	3856.6	3860.7
10°	3537.4	3624.4	3746.1	3824.8	3864.9	3866.2	3860.7	3841.4	3831.7	3833.1	3835.9
12.5°	3580.2	3676.9	3808.2	3874.5	3885.6	3855.2	3831.7	3798.5	3786.0	3780.6	3777.8
15°	3638.2	3748.7	3875.9	3900.7	3873.2	3834.4	3794.3	3740.5	3712.9	3690.7	3697.7
17.5°	3708.8	3830.3	3928.4	3910.5	3851.0	3787.5	3722.5	3641.0	3584.3	3560.8	3562.3
20°	3806.8	3916.0	3968.5	3889.8	3799.9	3703.2	3592.6	3493.2	3440.6	3417.1	3414.4
22.5°	3925.6	4030.7	4007.1	3853.8	3726.7	3571.9	3433.7	3360.5	3334.2	3317.6	3320.4
25°	4068.0	4157.8	4034.8	3801.3	3606.5	3397.8	3291.4	3267.9	3255.5	3243.1	3243.1
27.5°	4253.1	4301.5	4055.5	3723.9	3418.6	3212.7	3173.9	3178.1	3173.9	3153.2	3157.4
30°	4497.7	4488.1	4074.9	3598.2	3203.0	3045.5	3048.2	3066.2	3069.0	3055.1	3062.1
32.5°	4819.7	4721.6	4084.5	3435.1	2997.1	2899.0	2901.8	2921.0	2934.9	2911.4	2922.5
35°	5209.4	4993.8	4069.4	3230.6	2838.2	2759.4	2738.7	2744.2	2748.3	2726.3	2741.5
37.5°	5663.9	5299.1	4001.6	3004.0	2706.9	2622.7	2578.4	2541.1	2519.0	2498.2	2512.1
40°	6162.7	5632.2	3877.3	2782.9	2560.4	2477.5	2411.2	2340.8	2266.2	2238.5	2250.9
42.5°	6685.0	5974.8	3726.7	2571.5	2391.8	2324.2	2253.7	2151.5	2039.5	1982.9	1989.7
45°	7226.8	6325.8	3578.8	2362.8	2219.1	2190.1	2108.6	1985.6	1864.1	1792.2	1786.7
47.5°	7757.3	6657.5	3361.9	2152.8	2057.5	2089.3	2025.7	1912.3	1776.9	1663.7	1651.3
50°	8264.5	6968.4	3006.7	1940.0	1926.2	2058.8	1998.0	1835.1	1680.3	1535.1	1522.7
52.5°	8767.4	7219.8	2552.1	1746.6	1855.8	2050.6	1962.2	1782.5	1593.2	1441.3	1424.6
55°	9194.4	7349.8	2114.2	1580.8	1753.5	1980.1	1919.3	1720.4	1470.3	1308.5	1294.8
57.5°	9437.6	7244.7	1749.4	1417.7	1612.5	1864.1	1846.0	1587.6	1323.8	1199.4	1182.8
60°	9332.6	6819.1	1450.9	1275.4	1478.5	1738.3	1718.9	1456.4	1211.9	1094.4	1077.8
62.5°	8753.6	6008.0	1214.6	1151.1	1356.9	1609.8	1591.8	1355.6	1126.2	1012.8	994.9
65°	7587.4	4887.4	1030.8	1047.3	1233.9	1455.0	1481.2	1271.2	1058.4	947.9	930.0
67.5°	5786.9	3540.1	887.1	957.6	1113.8	1303.0	1379.0	1210.4	1001.8	896.8	880.2
70°	3298.3	2010.5	765.5	870.5	1007.4	1162.0	1300.2	1162.0	941.0	853.9	842.9
72.5°	1250.5	923.0	661.8	783.5	905.1	1043.2	1213.2	1086.1	870.5	805.5	794.5
75°	667.4	562.4	556.9	681.2	787.6	927.2	1104.0	1011.5	818.1	851.2	878.8
77.5°	454.6	397.9	465.7	583.1	659.1	798.7	988.0	898.2	708.9	706.1	650.8
80°	315.1	281.9	378.6	469.8	509.8	671.6	862.2	771.0	577.6	538.9	515.4
82.5°	189.3	183.8	283.3	351.0	360.6	518.1	714.4	646.7	472.5	411.7	414.5
85°	103.6	109.2	181.0	205.9	210.0	362.0	559.6	500.2	363.4	305.3	308.1
87.5°	29.0	37.3	66.3	81.5	100.9	187.9	333.0	297.0	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)