

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: P969769

Luminaire Tested: **NAV-SB6A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969769
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-SB6A-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 25635.3 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

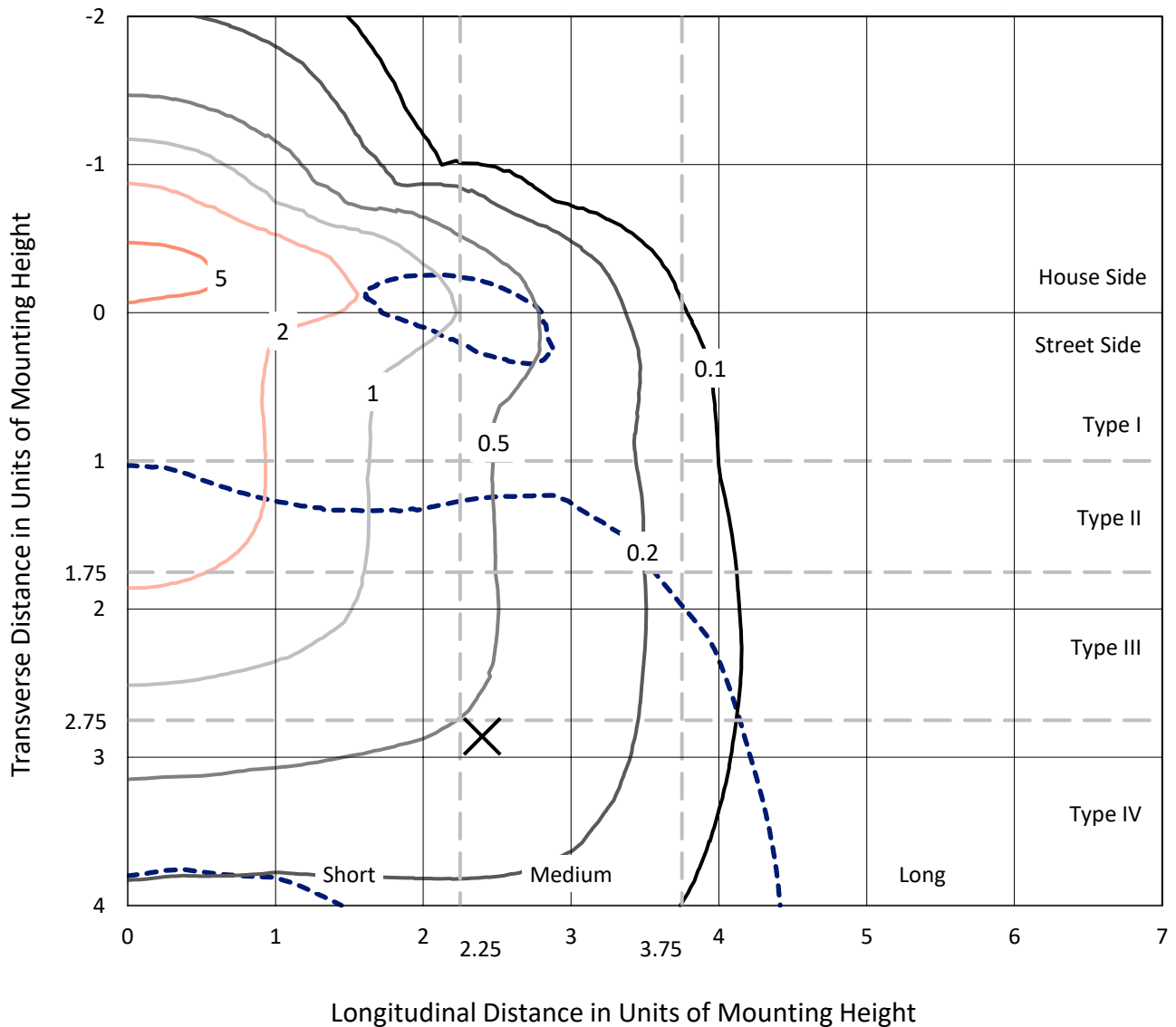
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

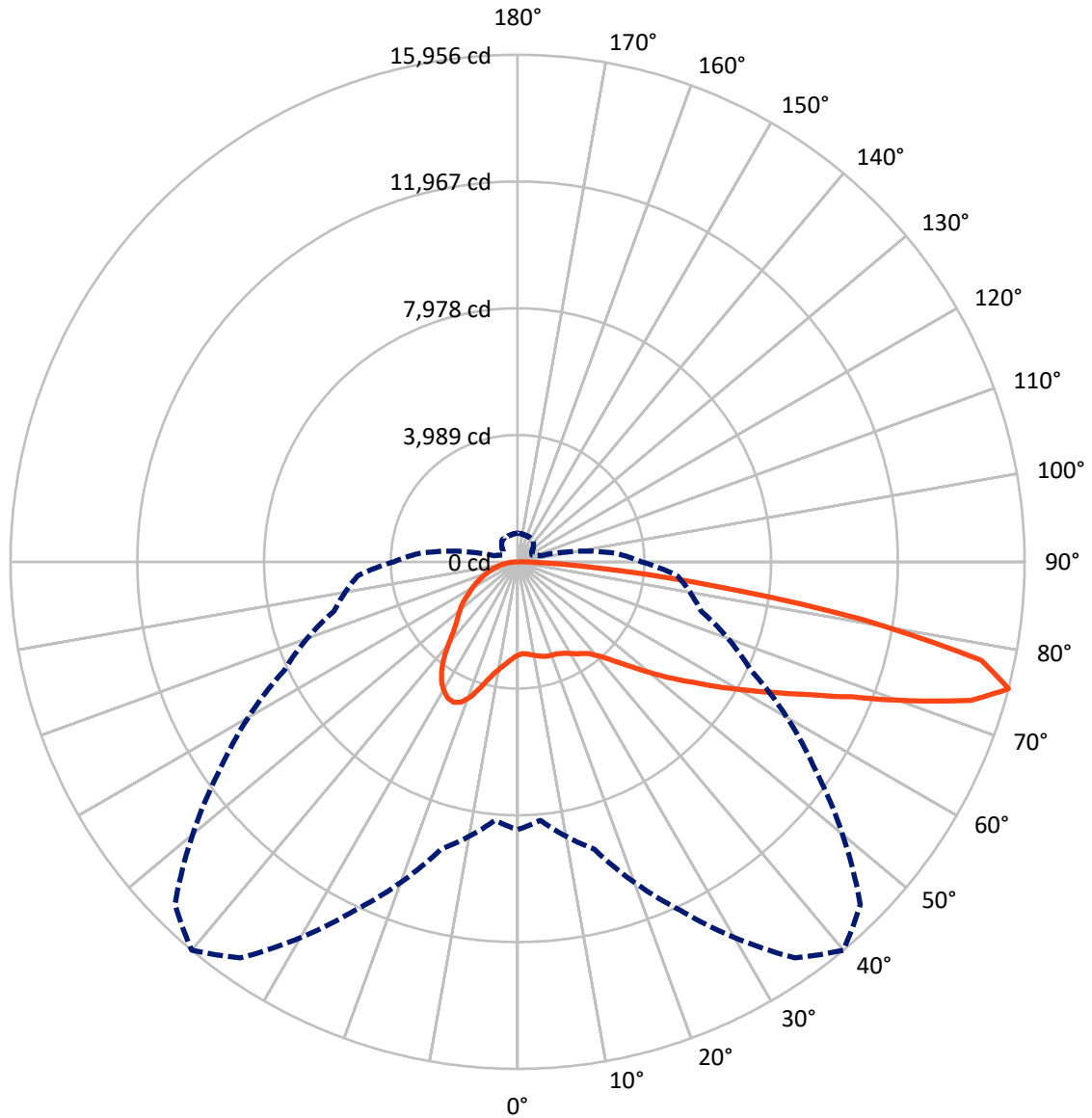
× Max cd
 - - - 1/2 Max cd



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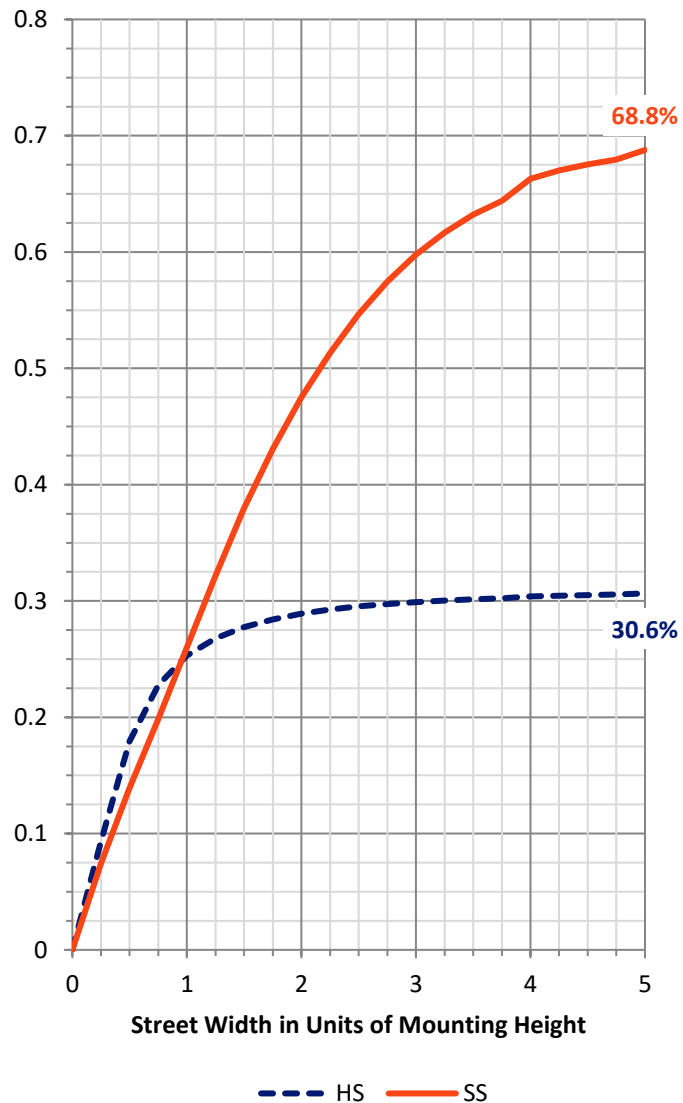
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7942.7	0.0	7942.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17692.6	0.0	17692.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	25635.3	0.0	25635.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	1.1
10°-20°	982.4	3.8
20°-30°	1793.8	7.0
30°-40°	2544.2	9.9
40°-50°	3435.4	13.4
50°-60°	4621.5	18.0
60°-70°	5865.8	22.9
70°-80°	5323.5	20.8
80°-90°	776.0	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°	25635.3	100.0
0°-180°	25635.3	100.0

Coefficient of Utilization

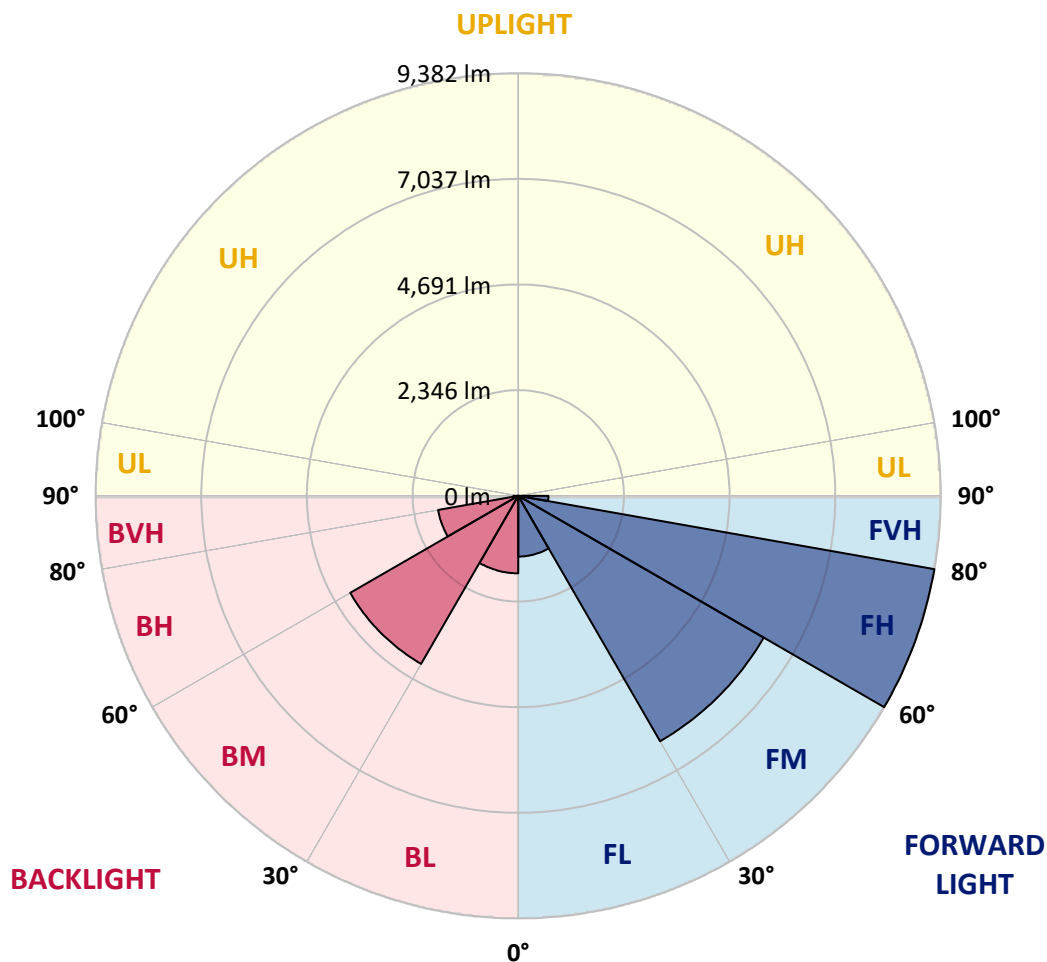


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.4	5.3			
FM (30°-60°)	6292.9	24.5			
FH (60°-80°)	9382.1	36.6			G4/12000
FVH (80°-90°)	669.2	2.6			G4/750
BL (0°-30°)	1720.5	6.7	B3/2500		
BM (30°-60°)	4308.2	16.8	B3/5000		
BH (60°-80°)	1807.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	106.8	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4
2.5°	2886.6	2902.9	2898.8	2893.4	2893.4	2894.7	2893.4	2902.9	2912.4	2921.9	2936.8
5°	2916.4	2932.8	2924.6	2917.9	2912.4	2911.0	2906.9	2905.6	2911.0	2923.3	2943.7
7.5°	2975.0	2991.3	2979.1	2966.8	2955.9	2950.5	2945.0	2936.8	2932.8	2939.6	2968.1
10°	3040.1	3056.5	3041.6	3019.8	3002.1	2995.4	2989.9	2981.7	2976.3	2980.4	3011.7
12.5°	3105.4	3121.7	3101.3	3071.5	3048.4	3044.2	3037.5	3034.7	3033.4	3032.1	3063.3
15°	3166.6	3180.3	3154.4	3119.1	3094.6	3087.8	3080.9	3085.0	3091.9	3100.0	3135.4
17.5°	3214.2	3227.8	3189.8	3143.6	3120.4	3117.7	3113.6	3127.2	3146.2	3166.6	3210.2
20°	3257.8	3271.4	3222.4	3159.9	3132.6	3132.6	3134.0	3162.5	3189.8	3219.6	3279.5
22.5°	3319.0	3329.8	3270.0	3184.4	3144.9	3147.6	3158.5	3187.0	3221.1	3261.9	3344.8
25°	3410.1	3418.2	3344.8	3230.6	3185.7	3193.8	3203.3	3217.0	3249.6	3297.2	3408.6
27.5°	3556.9	3563.6	3467.2	3312.1	3244.1	3257.8	3271.4	3261.9	3276.8	3317.6	3460.3
30°	3763.5	3767.6	3645.2	3439.9	3343.4	3350.2	3352.9	3313.5	3284.9	3317.6	3497.0
32.5°	4008.3	4006.9	3861.5	3595.0	3456.3	3449.4	3426.4	3348.9	3282.3	3310.7	3529.7
35°	4387.6	4372.6	4185.1	3812.5	3584.0	3541.9	3487.6	3388.2	3295.8	3304.0	3558.2
37.5°	5015.7	4969.5	4709.9	4168.7	3774.5	3667.0	3586.8	3452.2	3325.7	3301.2	3592.2
40°	5724.2	5665.7	5380.1	4656.9	4059.9	3887.3	3758.1	3543.3	3374.7	3313.5	3642.5
42.5°	6564.4	6481.5	6174.2	5232.0	4421.6	4171.4	3977.0	3658.8	3446.8	3352.9	3710.5
45°	7596.4	7486.3	7051.2	5880.5	4877.1	4544.0	4284.3	3834.2	3556.9	3429.0	3812.5
47.5°	8639.3	8666.5	8047.8	6622.9	5423.7	5003.5	4669.1	4098.1	3717.3	3551.4	3977.0
50°	9747.4	9766.4	9039.0	7445.5	6043.7	5522.9	5101.4	4393.0	3940.3	3725.5	4223.1
52.5°	10612.1	10614.9	9939.1	8306.2	6689.6	6094.0	5567.8	4730.3	4198.6	3956.6	4550.8
55°	11153.3	11146.5	10570.0	9120.6	7431.9	6693.6	6084.5	5113.7	4514.1	4228.5	4962.7
57.5°	11546.2	11525.8	11005.1	9820.8	8223.3	7401.9	6669.2	5548.7	4886.6	4552.1	5505.3
60°	11695.8	11683.6	11300.1	10425.9	9055.4	8185.1	7343.5	6035.5	5309.5	4934.2	6202.8
62.5°	11752.9	11776.0	11589.8	11011.9	9945.9	9052.6	8084.5	6617.5	5785.3	5366.6	6938.3
65°	11954.2	11996.3	11958.2	11778.7	10952.0	10068.3	9067.6	7309.5	6304.8	5830.2	7706.6
67.5°	12352.5	12394.6	12411.0	12696.5	12181.2	11334.1	10294.0	8171.5	6912.5	6311.5	8284.4
70°	12342.9	12330.7	12619.0	13426.7	13720.3	13086.7	11947.3	9232.1	7637.2	6711.3	8357.8
72.5°	11234.8	11136.9	11818.1	13418.5	15001.1	14916.8	13966.4	10599.9	8262.6	6760.2	7252.4
75°	8428.6	8167.5	9370.8	12092.8	15214.6	15955.6	15250.0	11448.3	8114.4	5973.0	5047.1
77.5°	3604.4	3342.0	4760.2	8952.0	13617.0	14915.5	14072.4	9988.0	6477.4	3949.8	2478.7
80°	943.6	942.3	1438.5	4058.6	9260.7	11014.5	9663.1	6450.2	3701.0	1411.3	683.9
82.5°	390.2	380.7	528.9	1578.6	4525.0	6181.1	5044.3	2877.1	1336.5	382.0	227.0
85°	145.4	144.1	257.0	545.2	1596.2	2549.4	1845.1	735.5	333.1	186.2	102.0
87.5°	40.8	39.5	55.8	189.0	388.9	590.1	315.4	121.1	93.8	73.4	29.9
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°	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4	2931.4
2.5°	2940.9	2947.7	2960.0	2969.5	2981.7	2995.4	3014.3	3026.6	3038.8	3047.0	3041.6
5°	2953.2	2968.1	2999.5	3030.7	3067.4	3101.3	3140.8	3169.4	3192.5	3199.2	3202.0
7.5°	2980.4	3004.9	3057.9	3110.9	3169.4	3225.2	3282.3	3331.1	3370.6	3385.6	3386.9
10°	3028.0	3060.5	3135.4	3210.2	3287.7	3373.3	3446.8	3517.4	3573.2	3596.3	3597.6
12.5°	3087.8	3128.6	3226.5	3329.8	3437.2	3555.5	3650.6	3737.7	3807.1	3838.3	3838.3
15°	3165.3	3218.3	3343.4	3482.1	3639.8	3804.3	3925.3	4021.9	4099.4	4137.4	4134.7
17.5°	3249.6	3320.3	3478.0	3687.4	3913.1	4129.3	4270.7	4341.4	4421.6	4458.3	4457.0
20°	3331.1	3418.2	3643.9	3948.4	4248.9	4478.7	4592.9	4612.0	4617.4	4621.5	4632.4
22.5°	3415.5	3532.4	3852.0	4277.5	4599.7	4758.8	4775.2	4693.6	4579.3	4526.3	4541.3
25°	3508.0	3662.9	4123.9	4640.5	4901.5	4920.6	4795.6	4597.0	4380.8	4281.5	4296.5
27.5°	3597.6	3813.8	4450.1	4987.2	5119.2	4951.9	4682.7	4401.2	4140.2	4035.4	4047.7
30°	3687.4	3986.5	4810.4	5290.4	5218.4	4874.4	4504.6	4190.5	3928.0	3817.9	3830.1
32.5°	3778.5	4187.7	5225.1	5509.4	5200.6	4709.9	4283.0	3953.9	3722.7	3607.2	3622.1
35°	3881.8	4435.2	5618.1	5629.0	5082.4	4467.9	3990.6	3671.0	3469.8	3377.4	3397.8
37.5°	4016.5	4749.3	5964.8	5658.9	4875.7	4113.0	3627.6	3336.6	3170.7	3128.6	3158.5
40°	4183.6	5127.3	6230.0	5611.4	4569.9	3682.0	3230.6	2998.0	2904.2	2913.8	2946.4
42.5°	4401.2	5550.2	6416.2	5489.0	4144.3	3237.4	2882.5	2779.2	2824.0	2862.1	2897.5
45°	4684.0	5989.3	6531.8	5280.9	3662.9	2860.7	2677.2	2701.6	2735.6	2739.7	2766.9
47.5°	5045.7	6433.9	6608.0	4966.8	3172.1	2595.6	2546.6	2552.0	2545.3	2516.7	2538.5
50°	5497.1	6866.3	6675.9	4550.8	2754.7	2429.7	2364.5	2345.4	2251.6	2159.2	2171.4
52.5°	6011.0	7263.3	6704.5	4034.1	2429.7	2291.0	2185.0	2065.3	1889.9	1861.4	1870.9
55°	6582.1	7630.4	6631.0	3399.1	2156.4	2112.9	1952.4	1808.3	1789.3	1764.8	1768.9
57.5°	7264.7	8026.1	6481.5	2690.7	1876.4	1904.9	1748.5	1764.8	1730.8	1692.8	1686.0
60°	8011.1	8435.3	6219.1	2045.0	1586.7	1645.2	1695.5	1694.1	1684.6	1653.3	1642.5
62.5°	8682.8	8704.5	5702.4	1566.3	1332.5	1443.9	1581.3	1579.9	1571.7	1554.1	1547.3
65°	9082.5	8663.7	4840.4	1233.2	1123.1	1278.1	1426.3	1437.2	1438.5	1437.2	1437.2
67.5°	9011.8	8186.5	3657.5	981.6	950.4	1109.5	1272.6	1287.6	1298.5	1301.2	1303.9
70°	8212.3	7138.2	2384.9	783.2	796.7	961.2	1127.2	1142.2	1151.6	1162.6	1168.0
72.5°	6401.2	5248.3	1365.1	633.6	662.2	833.4	983.1	1000.7	1006.1	1026.5	1034.7
75°	3900.8	3086.4	737.0	499.0	543.9	712.5	840.3	860.7	870.2	894.6	897.4
77.5°	1854.5	1336.5	420.1	388.9	437.8	581.9	709.7	732.9	707.0	720.6	709.7
80°	626.8	496.3	265.2	296.4	334.5	454.1	568.4	591.4	537.1	534.3	528.9
82.5°	218.9	201.2	168.6	197.1	216.2	324.9	429.7	459.6	399.7	398.4	379.4
85°	85.7	81.6	93.8	107.4	129.1	199.9	282.8	297.8	246.1	198.5	195.8
87.5°	17.6	19.1	23.2	24.5	39.5	69.4	102.0	125.0	99.2	84.3	77.5
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)