

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: P966607

Luminaire Tested: **NAV-SB4C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966607
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-SB4C-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28285.9 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

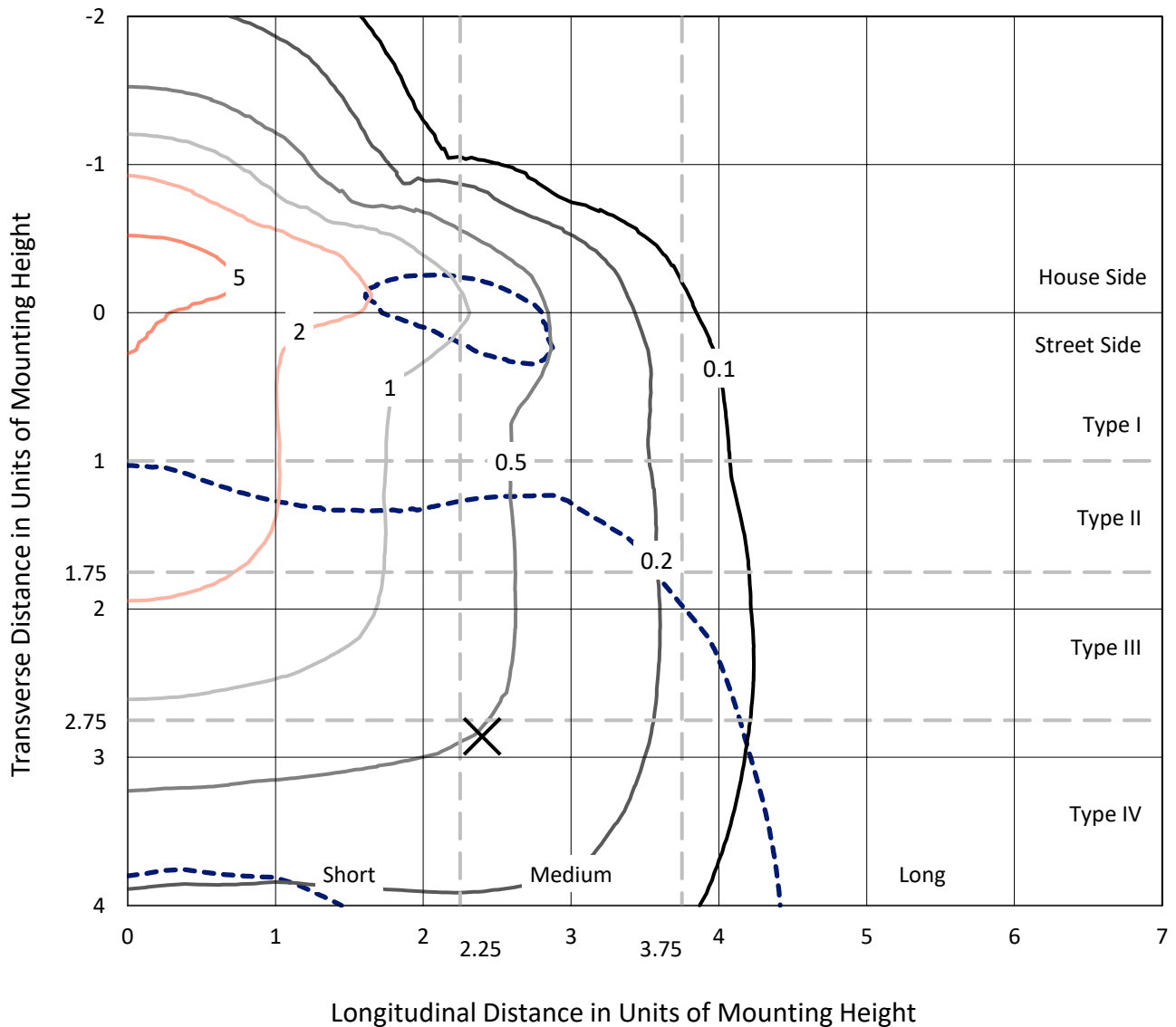
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

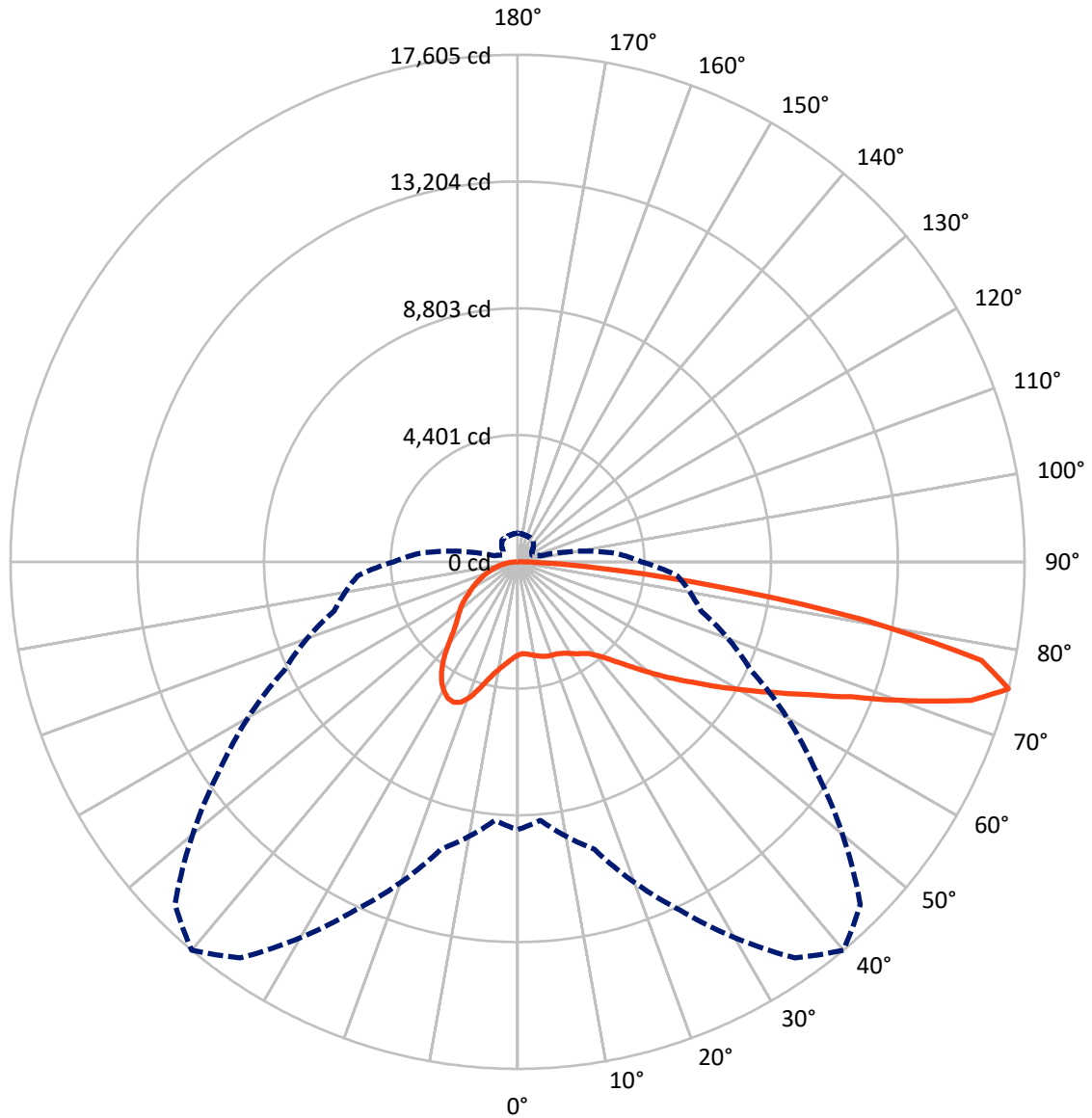
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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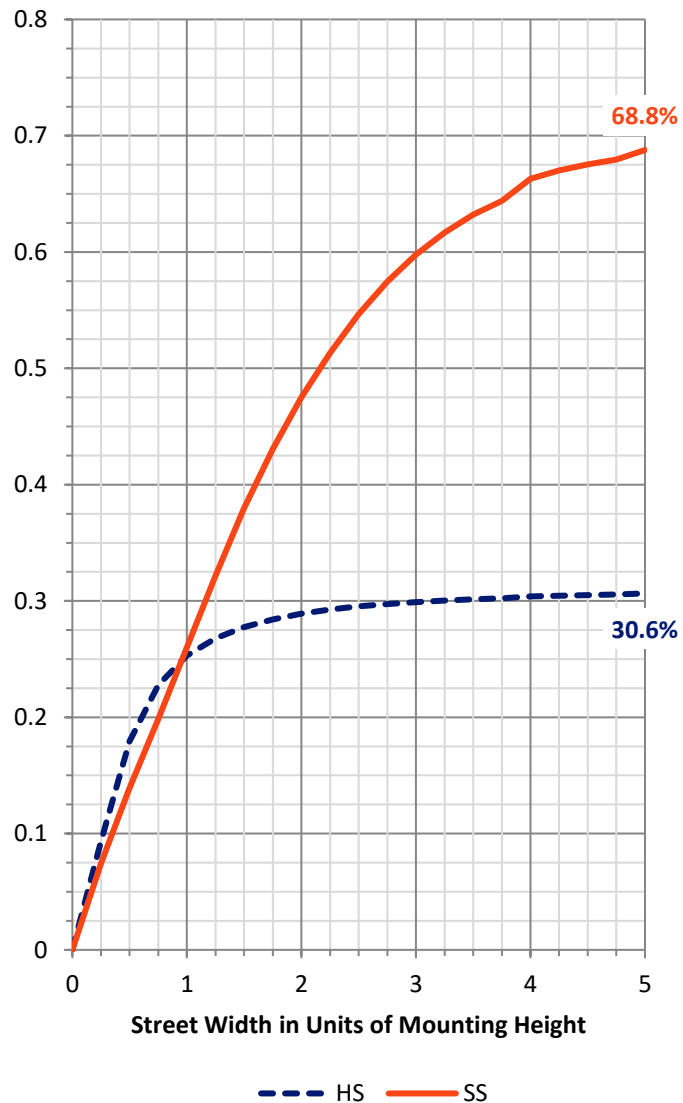
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8763.9	0.0	8763.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19522.0	0.0	19522.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	28285.9	0.0	28285.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.9	1.1
10°-20°	1084.0	3.8
20°-30°	1979.3	7.0
30°-40°	2807.2	9.9
40°-50°	3790.6	13.4
50°-60°	5099.4	18.0
60°-70°	6472.3	22.9
70°-80°	5874.0	20.8
80°-90°	856.2	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°	28285.9	100.0
0°-180°	28285.9	100.0

Coefficient of Utilization

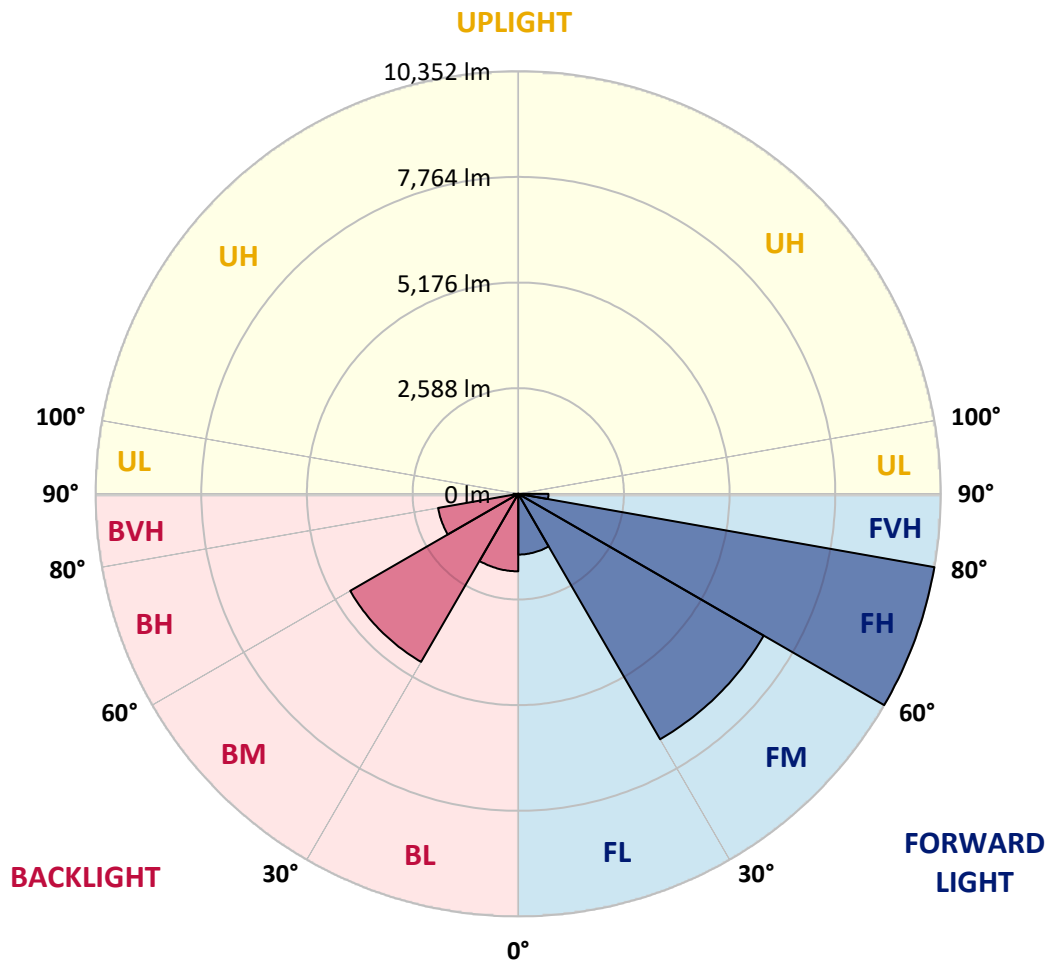


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.9	5.3			
FM (30°-60°)	6943.6	24.5			
FH (60°-80°)	10352.2	36.6			G4/12000
FVH (80°-90°)	738.4	2.6			G4/750
BL (0°-30°)	1898.3	6.7	B3/2500		
BM (30°-60°)	4753.6	16.8	B3/5000		
BH (60°-80°)	1994.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	117.9	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°	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5
2.5°	3185.0	3203.0	3198.5	3192.6	3192.6	3194.0	3192.6	3203.0	3213.5	3224.0	3240.5
5°	3218.0	3236.0	3227.0	3219.5	3213.5	3212.0	3207.5	3206.0	3212.0	3225.6	3248.0
7.5°	3282.6	3300.5	3287.1	3273.5	3261.5	3255.5	3249.6	3240.5	3236.0	3243.5	3275.1
10°	3354.5	3372.6	3356.1	3332.1	3312.5	3305.0	3299.1	3290.0	3284.0	3288.5	3323.0
12.5°	3426.6	3444.6	3422.1	3389.1	3363.5	3359.0	3351.5	3348.6	3347.0	3345.5	3380.0
15°	3494.1	3509.1	3480.6	3441.5	3414.6	3407.1	3399.5	3404.0	3411.6	3420.5	3459.6
17.5°	3546.6	3561.6	3519.5	3468.6	3443.1	3440.1	3435.6	3450.6	3471.6	3494.1	3542.1
20°	3594.6	3609.6	3555.6	3486.5	3456.6	3456.6	3458.0	3489.6	3519.5	3552.5	3618.6
22.5°	3662.1	3674.1	3608.1	3513.6	3470.0	3473.1	3485.1	3516.6	3554.1	3599.1	3690.6
25°	3762.6	3771.6	3690.6	3564.5	3515.0	3524.1	3534.6	3549.6	3585.6	3638.1	3761.1
27.5°	3924.6	3932.1	3825.6	3654.6	3579.6	3594.6	3609.6	3599.1	3615.6	3660.6	3818.1
30°	4152.7	4157.2	4022.2	3795.6	3689.1	3696.6	3699.6	3656.1	3624.6	3660.6	3858.6
32.5°	4422.8	4421.2	4260.7	3966.6	3813.6	3806.1	3780.6	3695.1	3621.6	3653.1	3894.6
35°	4841.3	4824.8	4617.7	4206.7	3954.7	3908.1	3848.2	3738.6	3636.6	3645.6	3926.2
37.5°	5534.4	5483.4	5196.9	4599.8	4164.7	4046.2	3957.6	3809.1	3669.6	3642.6	3963.7
40°	6316.0	6251.5	5936.5	5138.3	4479.8	4289.2	4146.6	3909.7	3723.6	3656.1	4019.1
42.5°	7243.2	7151.6	6812.7	5772.9	4878.8	4602.8	4388.2	4037.2	3803.2	3699.6	4094.2
45°	8381.8	8260.4	7780.3	6488.6	5381.4	5013.8	4727.3	4230.7	3924.6	3783.6	4206.7
47.5°	9532.6	9562.5	8880.0	7307.7	5984.5	5520.9	5151.9	4521.8	4101.6	3918.7	4388.2
50°	10755.2	10776.2	9973.7	8215.4	6668.5	6094.0	5628.9	4847.3	4347.7	4110.7	4659.8
52.5°	11709.4	11712.5	10966.8	9165.0	7381.2	6724.1	6143.5	5219.4	4632.8	4365.7	5021.4
55°	12306.6	12299.0	11663.0	10063.7	8200.3	7385.7	6713.6	5642.4	4980.8	4665.8	5475.9
57.5°	12740.1	12717.6	12143.0	10836.3	9073.5	8167.3	7358.7	6122.5	5391.9	5022.8	6074.5
60°	12905.2	12891.6	12468.5	11503.9	9991.6	9031.5	8102.8	6659.6	5858.5	5444.4	6844.1
62.5°	12968.1	12993.6	12788.1	12150.5	10974.3	9988.6	8920.5	7301.7	6383.6	5921.4	7655.7
65°	13190.2	13236.6	13194.6	12996.6	12084.4	11109.4	10005.1	8065.3	6956.7	6433.1	8503.4
67.5°	13629.7	13676.3	13694.2	14009.3	13440.7	12506.0	11358.3	9016.5	7627.2	6964.2	9140.9
70°	13619.3	13605.7	13923.8	14814.9	15138.9	14439.9	13182.6	10186.7	8426.8	7405.2	9222.0
72.5°	12396.6	12288.5	13040.2	14805.9	16552.2	16459.2	15410.6	11696.0	9117.0	7459.2	8002.3
75°	9300.0	9012.0	10339.7	13343.1	16787.8	17605.4	16826.8	12632.1	8953.5	6590.5	5568.9
77.5°	3977.1	3687.6	5252.4	9877.6	15025.0	16457.7	15527.5	11020.8	7147.2	4358.2	2734.9
80°	1041.2	1039.7	1587.2	4478.2	10218.2	12153.5	10662.3	7117.2	4083.7	1557.3	754.6
82.5°	430.6	420.0	583.6	1741.8	4992.8	6820.1	5566.0	3174.5	1474.8	421.6	250.5
85°	160.5	159.0	283.5	601.6	1761.3	2813.0	2035.9	811.6	367.6	205.5	112.5
87.5°	45.0	43.5	61.5	208.5	429.1	651.1	348.1	133.6	103.5	81.0	33.0
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°	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5
2.5°	3245.0	3252.5	3266.1	3276.5	3290.0	3305.0	3326.0	3339.6	3353.1	3362.1	3356.1
5°	3258.6	3275.1	3309.5	3344.1	3384.6	3422.1	3465.5	3497.1	3522.6	3530.1	3533.1
7.5°	3288.5	3315.6	3374.1	3432.5	3497.1	3558.6	3621.6	3675.6	3719.1	3735.6	3737.2
10°	3341.1	3377.1	3459.6	3542.1	3627.6	3722.1	3803.2	3881.2	3942.7	3968.2	3969.6
12.5°	3407.1	3452.1	3560.1	3674.1	3792.6	3923.2	4028.1	4124.2	4200.7	4235.2	4235.2
15°	3492.6	3551.1	3689.1	3842.1	4016.2	4197.7	4331.2	4437.7	4523.2	4565.2	4562.3
17.5°	3585.6	3663.6	3837.6	4068.6	4317.7	4556.2	4712.2	4790.2	4878.8	4919.3	4917.8
20°	3675.6	3771.6	4020.7	4356.8	4688.2	4941.8	5067.8	5088.8	5094.9	5099.4	5111.4
22.5°	3768.6	3897.7	4250.2	4719.8	5075.3	5250.9	5268.9	5178.8	5052.8	4994.3	5010.8
25°	3870.6	4041.7	4550.3	5120.4	5408.4	5429.4	5291.4	5072.3	4833.8	4724.2	4740.7
27.5°	3969.6	4208.2	4910.3	5502.9	5648.5	5463.9	5166.8	4856.3	4568.2	4452.7	4466.2
30°	4068.6	4398.7	5307.9	5837.5	5757.9	5378.4	4970.3	4623.8	4334.2	4212.6	4226.2
32.5°	4169.2	4620.8	5765.4	6079.0	5738.5	5196.9	4725.8	4362.7	4107.7	3980.2	3996.7
35°	4283.2	4893.8	6199.0	6211.0	5607.9	4929.8	4403.2	4050.7	3828.6	3726.6	3749.1
37.5°	4431.7	5240.3	6581.6	6244.0	5379.9	4538.3	4002.6	3681.6	3498.5	3452.1	3485.1
40°	4616.3	5657.4	6874.2	6191.5	5042.3	4062.7	3564.5	3308.1	3204.6	3215.0	3251.0
42.5°	4856.3	6124.0	7079.7	6056.5	4572.7	3572.1	3180.5	3066.5	3116.0	3158.0	3197.0
45°	5168.4	6608.6	7207.2	5826.9	4041.7	3156.5	2953.9	2981.0	3018.5	3023.0	3053.0
47.5°	5567.4	7099.2	7291.2	5480.4	3500.1	2864.0	2809.9	2816.0	2808.5	2776.9	2800.9
50°	6065.5	7576.3	7366.2	5021.4	3039.5	2681.0	2608.9	2587.9	2484.4	2382.4	2395.9
52.5°	6632.6	8014.3	7397.7	4451.3	2681.0	2528.0	2410.9	2278.9	2085.4	2053.8	2064.4
55°	7262.7	8419.3	7316.7	3750.6	2379.4	2331.4	2154.3	1995.4	1974.4	1947.3	1951.8
57.5°	8015.8	8856.0	7151.6	2969.0	2070.3	2101.9	1929.4	1947.3	1909.8	1867.9	1860.3
60°	8839.5	9307.5	6862.2	2256.3	1750.8	1815.3	1870.8	1869.3	1858.8	1824.3	1812.3
62.5°	9580.6	9604.6	6292.1	1728.3	1470.3	1593.3	1744.8	1743.3	1734.3	1714.8	1707.2
65°	10021.6	9559.6	5340.9	1360.7	1239.2	1410.2	1573.8	1585.8	1587.2	1585.8	1585.8
67.5°	9943.6	9033.0	4035.6	1083.2	1048.7	1224.2	1404.2	1420.8	1432.7	1435.7	1438.7
70°	9061.5	7876.3	2631.5	864.2	879.1	1060.7	1243.7	1260.2	1270.7	1282.7	1288.7
72.5°	7063.2	5790.9	1506.2	699.2	730.6	919.6	1084.7	1104.1	1110.2	1132.7	1141.6
75°	4304.2	3405.6	813.1	550.6	600.1	786.2	927.1	949.7	960.1	987.2	990.1
77.5°	2046.3	1474.8	463.6	429.1	483.1	642.1	783.1	808.6	780.1	795.1	783.1
80°	691.6	547.6	292.5	327.1	369.1	501.1	627.1	652.6	592.6	589.6	583.6
82.5°	241.5	222.0	186.0	217.5	238.5	358.5	474.1	507.1	441.1	439.6	418.6
85°	94.5	90.0	103.5	118.5	142.5	220.6	312.0	328.5	271.5	219.0	216.1
87.5°	19.5	21.0	25.5	27.0	43.5	76.5	112.5	138.1	109.5	93.0	85.5
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)