

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: P970804

Luminaire Tested: **NAV-SB6C-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30158.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

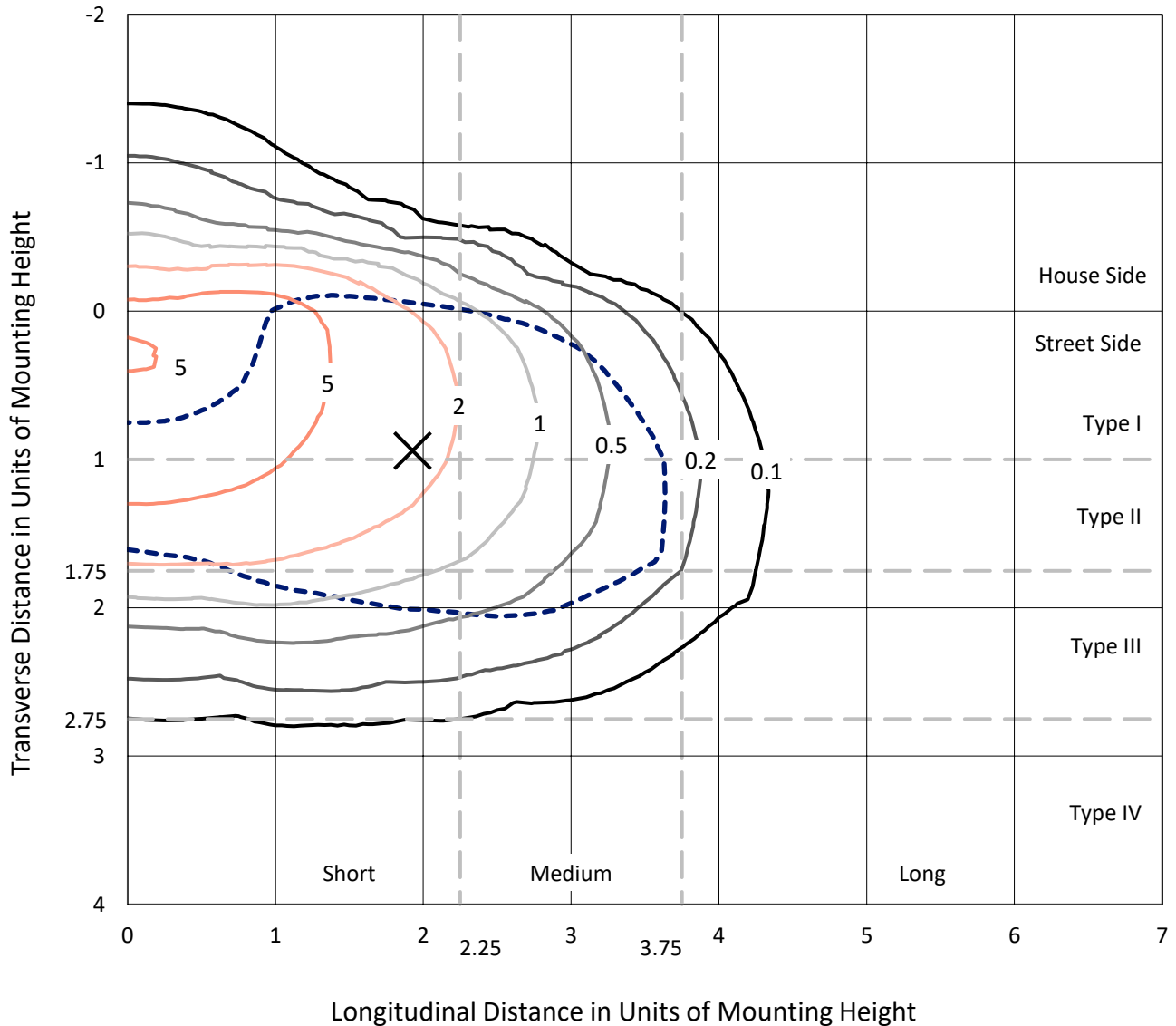
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970804
 CATALOG NUMBER: NAV-SB6C-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

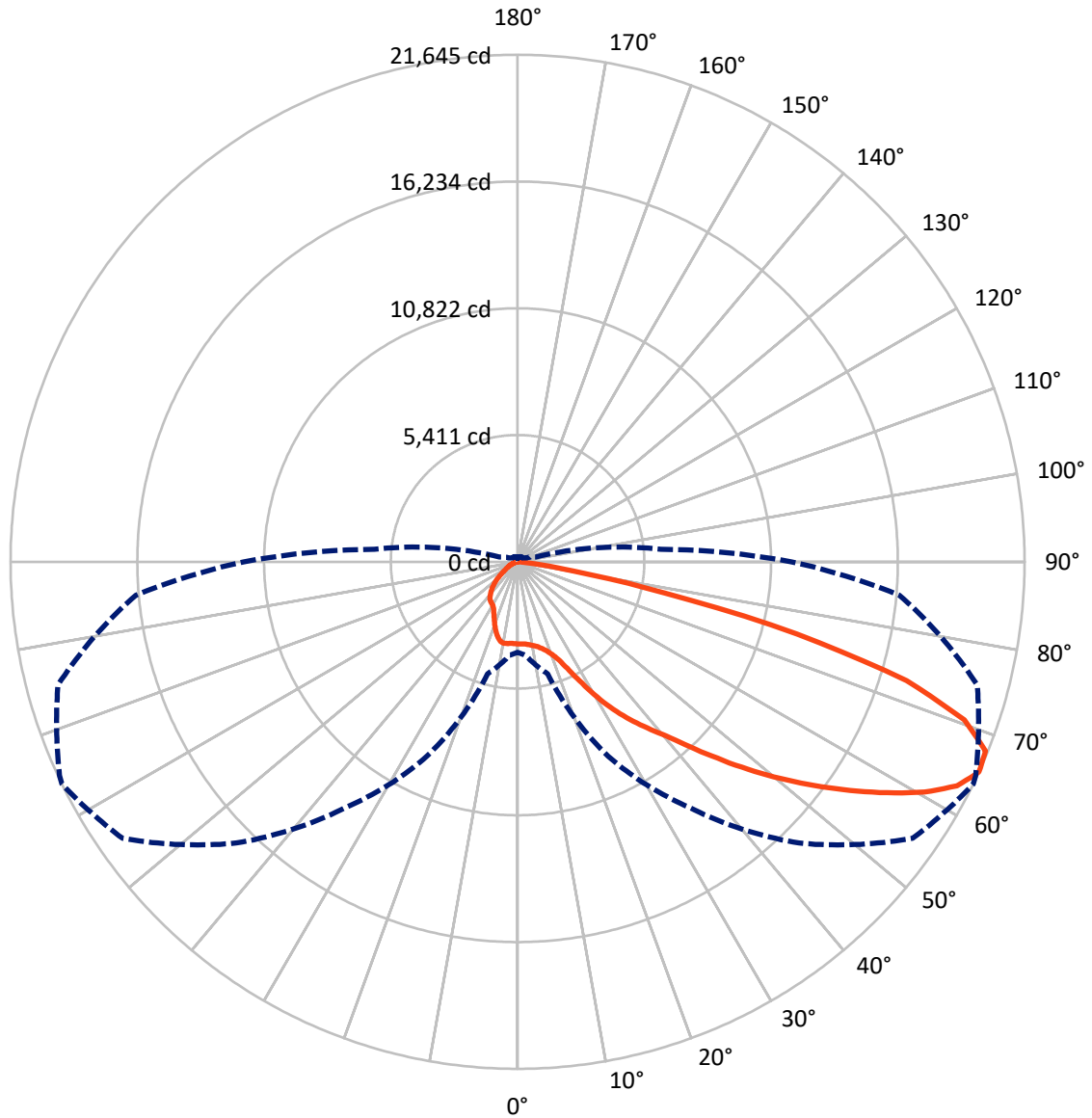
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

REPORT NUMBER: P970804
CATALOG NUMBER: NAV-SB6C-722-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P970804

CATALOG NUMBER: NAV-SB6C-722-U-T3-HSS

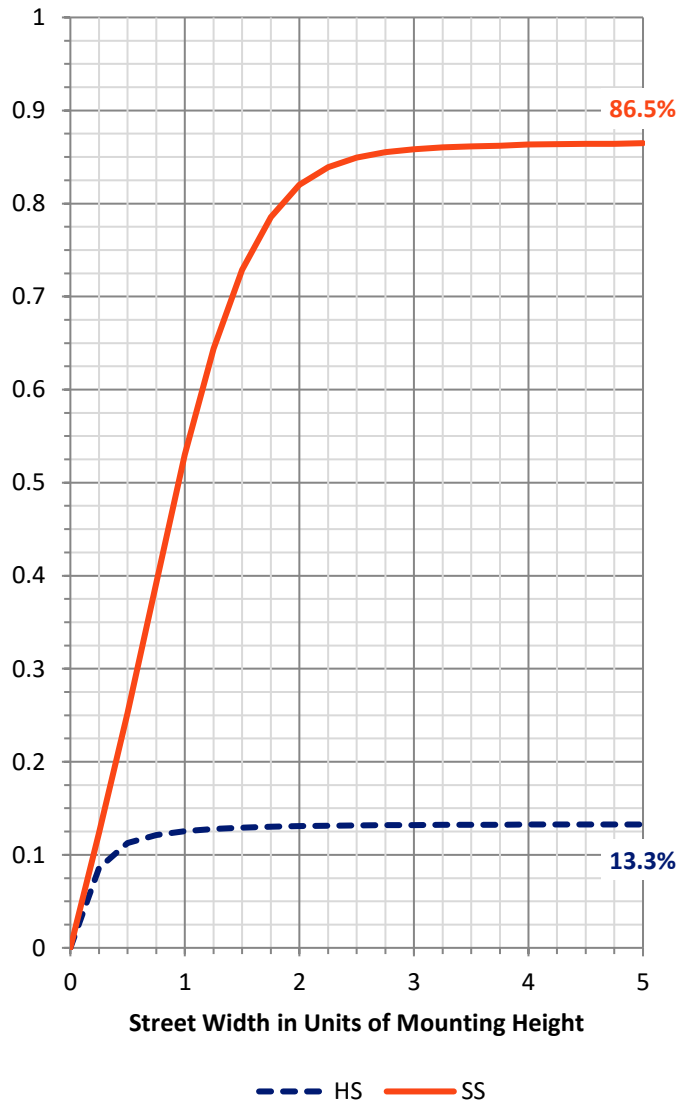
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4033.1	0.0	4033.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26125.4	0.0	26125.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	30158.6	0.0	30158.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.6	1.1
10°-20°	877.8	2.9
20°-30°	1663.3	5.5
30°-40°	3365.7	11.2
40°-50°	5733.5	19.0
50°-60°	7797.2	25.9
60°-70°	7321.9	24.3
70°-80°	2933.5	9.7
80°-90°	142.1	0.5
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°	30158.6	100.0
0°-180°	30158.6	100.0

Coefficient of Utilization



REPORT NUMBER: P970804

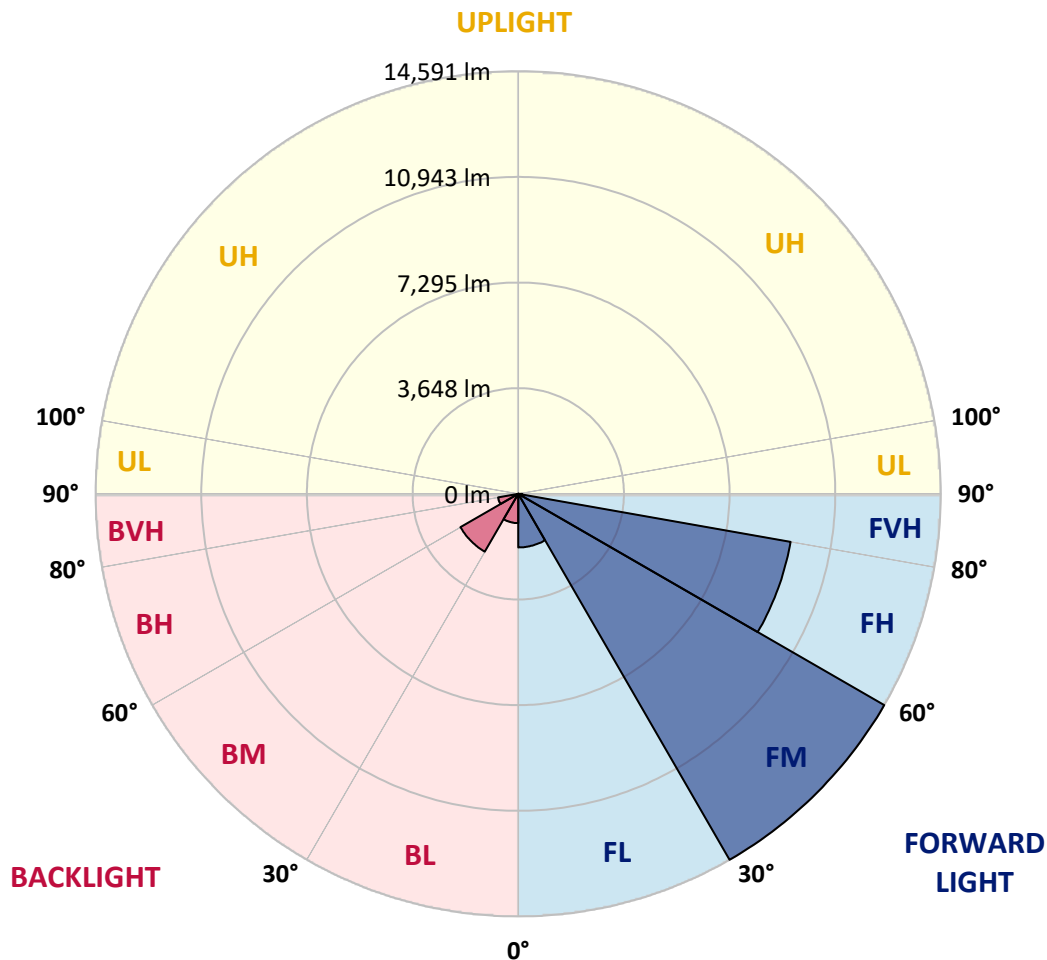
CATALOG NUMBER: NAV-SB6C-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1852.1	6.1			
FM (30°-60°)	14590.7	48.4			
FH (60°-80°)	9547.5	31.7			G4/12000
FVH (80°-90°)	135.2	0.4			G2/225
BL (0°-30°)	1012.6	3.4	B3/2500		
BM (30°-60°)	2305.7	7.6	B2/2500		
BH (60°-80°)	707.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P970804
 CATALOG NUMBER: NAV-SB6C-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8
2.5°	3495.7	3519.8	3513.8	3507.8	3505.7	3509.8	3511.8	3509.8	3509.8	3509.8	3511.8
5°	3428.9	3449.1	3449.1	3463.3	3483.5	3507.8	3526.0	3530.0	3534.0	3540.1	3538.1
7.5°	3301.5	3317.7	3329.8	3376.4	3426.9	3491.6	3546.2	3574.5	3578.5	3600.7	3608.8
10°	3214.6	3234.8	3255.0	3303.6	3376.4	3473.4	3566.4	3635.2	3645.2	3697.8	3722.1
12.5°	3210.6	3230.8	3257.0	3309.6	3394.5	3497.6	3610.9	3709.9	3728.1	3805.0	3855.5
15°	3253.0	3277.2	3301.5	3366.2	3457.2	3582.6	3703.8	3827.1	3845.4	3954.6	4009.2
17.5°	3340.0	3372.2	3390.5	3455.2	3552.2	3691.7	3851.4	3993.0	4009.2	4136.5	4205.3
20°	3511.8	3550.2	3556.2	3608.8	3703.8	3853.5	4043.5	4219.4	4239.6	4385.2	4462.0
22.5°	3867.6	3922.3	3873.7	3900.0	3984.9	4134.5	4340.7	4563.1	4591.4	4757.2	4825.9
25°	4494.4	4571.2	4445.8	4401.3	4437.7	4593.4	4852.2	5133.3	5165.6	5299.0	5333.4
27.5°	5725.6	5626.5	5436.5	5250.6	5141.3	5230.3	5521.5	5869.2	5909.6	6039.0	5998.6
30°	7078.1	6991.2	6734.5	6322.1	6063.3	6049.1	6318.0	6706.2	6752.7	6876.0	6752.7
32.5°	8432.8	8349.9	8070.8	7563.4	7114.6	6892.2	7078.1	7508.8	7533.0	7612.0	7430.0
35°	9765.1	9680.2	9401.2	8881.6	8329.7	7824.2	7787.8	8273.1	8281.2	8364.0	8093.1
37.5°	11105.6	11034.7	10737.6	10228.1	9684.2	8986.7	8649.1	8996.8	9007.0	9087.9	8806.8
40°	12061.8	12092.1	11887.9	11493.7	11026.6	10264.5	9615.5	9767.1	9706.4	9841.9	9674.2
42.5°	12882.7	12943.3	12765.3	12567.2	12296.3	11625.1	10812.4	10786.1	10689.0	10761.9	10587.9
45°	13592.3	13642.9	13483.2	13436.6	13430.6	12959.5	12120.4	11962.8	11827.3	11813.1	11604.9
47.5°	13853.1	13950.1	14018.9	14174.5	14477.8	14279.7	13473.0	13228.3	13076.7	12965.5	12636.0
50°	13952.2	14055.3	14289.8	14742.7	15460.4	15545.4	14819.6	14544.5	14358.5	14156.4	13671.1
52.5°	13818.7	14002.7	14318.1	15080.3	16121.5	16560.2	16111.5	15870.8	15658.5	15329.0	14609.2
55°	13032.3	13216.2	13861.2	15076.3	16451.0	17271.9	17332.5	17225.4	16986.8	16467.2	15367.4
57.5°	11374.4	11647.4	12668.4	14562.8	16445.0	17884.5	18529.4	18606.3	18339.4	17595.4	15963.9
60°	9077.7	9447.7	10693.1	13424.5	15937.5	18216.1	19578.7	19962.9	19679.8	18707.4	16447.0
62.5°	6334.2	6762.7	7941.5	11641.3	14777.0	17977.5	20345.0	21054.6	20840.3	19702.0	16633.0
65°	3863.6	4001.1	4951.3	9160.6	12803.8	16978.7	20581.5	21644.9	21574.2	20310.6	16358.1
67.5°	2573.7	2689.0	2961.8	6281.6	9939.0	14983.2	20015.5	21541.9	21562.1	20211.6	15351.2
70°	1550.7	1649.7	1827.7	3653.3	6441.3	11859.7	18262.5	20227.8	20345.0	18887.3	13442.7
72.5°	638.9	705.6	867.4	1655.8	3335.9	7527.0	14542.5	17366.9	17639.8	15880.9	10317.0
75°	361.9	396.3	509.5	831.0	1447.6	3507.8	8808.8	12328.7	12731.0	10945.8	6206.8
77.5°	240.6	256.8	329.5	537.8	814.8	1196.9	3764.5	6423.2	7191.4	5978.3	2686.9
80°	161.7	175.9	226.4	359.9	529.7	513.5	1198.9	2379.6	2927.5	2054.1	655.1
82.5°	109.2	111.2	161.7	236.6	335.6	248.7	353.8	739.9	930.0	594.4	248.7
85°	62.6	60.7	119.3	137.5	149.6	103.1	107.1	222.4	291.1	250.7	141.6
87.5°	8.1	12.1	46.5	36.4	20.2	22.2	22.2	38.4	56.6	60.7	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P970804
 CATALOG NUMBER: NAV-SB6C-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8	3507.8
2.5°	3511.8	3509.8	3503.8	3497.6	3483.5	3475.4	3479.5	3475.4	3473.4	3475.4	3483.5
5°	3538.1	3532.0	3515.9	3495.7	3467.4	3432.9	3410.7	3378.4	3348.1	3329.8	3333.9
7.5°	3608.8	3602.8	3580.5	3524.0	3432.9	3289.4	3158.0	3042.7	2955.8	2905.3	2907.3
10°	3722.1	3711.9	3677.6	3552.2	3313.6	3000.3	2739.5	2523.1	2381.6	2315.0	2308.8
12.5°	3855.5	3843.3	3782.8	3526.0	3087.2	2598.0	2238.1	1997.5	1866.1	1807.5	1801.4
15°	4013.2	3997.0	3877.8	3400.6	2757.7	2153.2	1823.6	1643.7	1558.8	1506.2	1508.2
17.5°	4209.3	4181.0	3948.5	3212.6	2399.8	1813.5	1568.9	1433.5	1358.6	1308.1	1304.0
20°	4464.1	4417.5	4005.1	2988.2	2070.3	1599.2	1397.1	1283.8	1227.2	1182.7	1174.6
22.5°	4819.9	4753.1	4073.9	2745.6	1837.8	1451.6	1269.7	1186.7	1140.3	1089.8	1081.7
25°	5260.6	5181.8	4158.7	2521.1	1678.0	1324.3	1176.7	1107.9	1053.3	994.7	988.6
27.5°	5877.2	5735.7	4259.9	2337.2	1540.6	1215.0	1091.7	1015.0	952.2	903.7	893.6
30°	6564.6	6332.1	4348.8	2226.0	1415.2	1114.0	980.5	903.7	845.1	810.8	804.6
32.5°	7215.7	6900.3	4407.4	2177.4	1302.1	998.8	859.3	776.3	731.8	721.8	727.9
35°	7830.3	7413.8	4401.3	2131.0	1200.9	883.6	739.9	655.1	620.6	626.8	626.8
37.5°	8537.9	7961.7	4358.9	2058.2	1118.1	778.4	636.8	562.0	531.8	533.7	541.8
40°	9360.7	8594.5	4332.7	1920.6	1027.0	681.3	552.0	491.3	469.0	460.9	458.9
42.5°	10238.2	9207.1	4336.7	1764.9	913.8	594.4	493.3	442.8	422.5	416.5	414.5
45°	11119.7	9791.4	4342.7	1603.3	794.6	527.7	450.9	408.4	396.3	388.2	388.2
47.5°	11948.6	10288.7	4229.6	1429.4	677.3	477.1	416.5	388.2	378.0	368.0	368.0
50°	12721.0	10620.3	3956.6	1227.2	584.2	436.6	390.2	370.0	359.9	349.7	349.7
52.5°	13321.4	10672.9	3505.7	1019.0	519.6	406.4	374.0	355.9	343.7	333.6	331.6
55°	13588.2	10343.4	2864.9	824.9	469.0	380.1	357.8	339.7	325.5	315.4	313.3
57.5°	13519.5	9649.9	2234.1	663.2	420.6	353.8	337.6	325.5	309.3	293.2	291.1
60°	13181.9	8721.8	1684.2	552.0	376.1	325.5	315.4	305.2	283.0	258.8	254.7
62.5°	12597.6	7555.3	1200.9	456.9	327.5	293.2	289.2	281.1	248.7	204.2	200.2
65°	11704.0	6138.1	808.7	380.1	281.1	256.8	258.8	244.7	202.1	151.6	147.6
67.5°	10397.9	4488.3	517.5	311.4	234.5	214.3	216.4	208.3	171.9	129.4	123.3
70°	8734.0	2972.0	337.6	236.6	188.0	165.7	177.9	179.9	145.5	105.2	101.1
72.5°	6402.9	1754.9	236.6	175.9	137.5	115.2	145.5	149.6	117.3	78.8	74.8
75°	3649.3	832.9	177.9	127.4	84.9	80.9	113.3	113.3	80.9	52.6	48.5
77.5°	1532.5	347.8	125.4	82.9	48.5	46.5	76.9	70.7	40.4	24.3	24.3
80°	442.8	155.7	66.7	40.4	20.2	18.2	30.3	22.2	10.1	4.0	4.0
82.5°	173.8	68.8	26.2	16.2	8.1	8.1	4.0	0.0	0.0	0.0	0.0
85°	103.1	28.3	12.1	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.2	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)