

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: P968703

Luminaire Tested: **NAV-SB5C-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31969.7 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

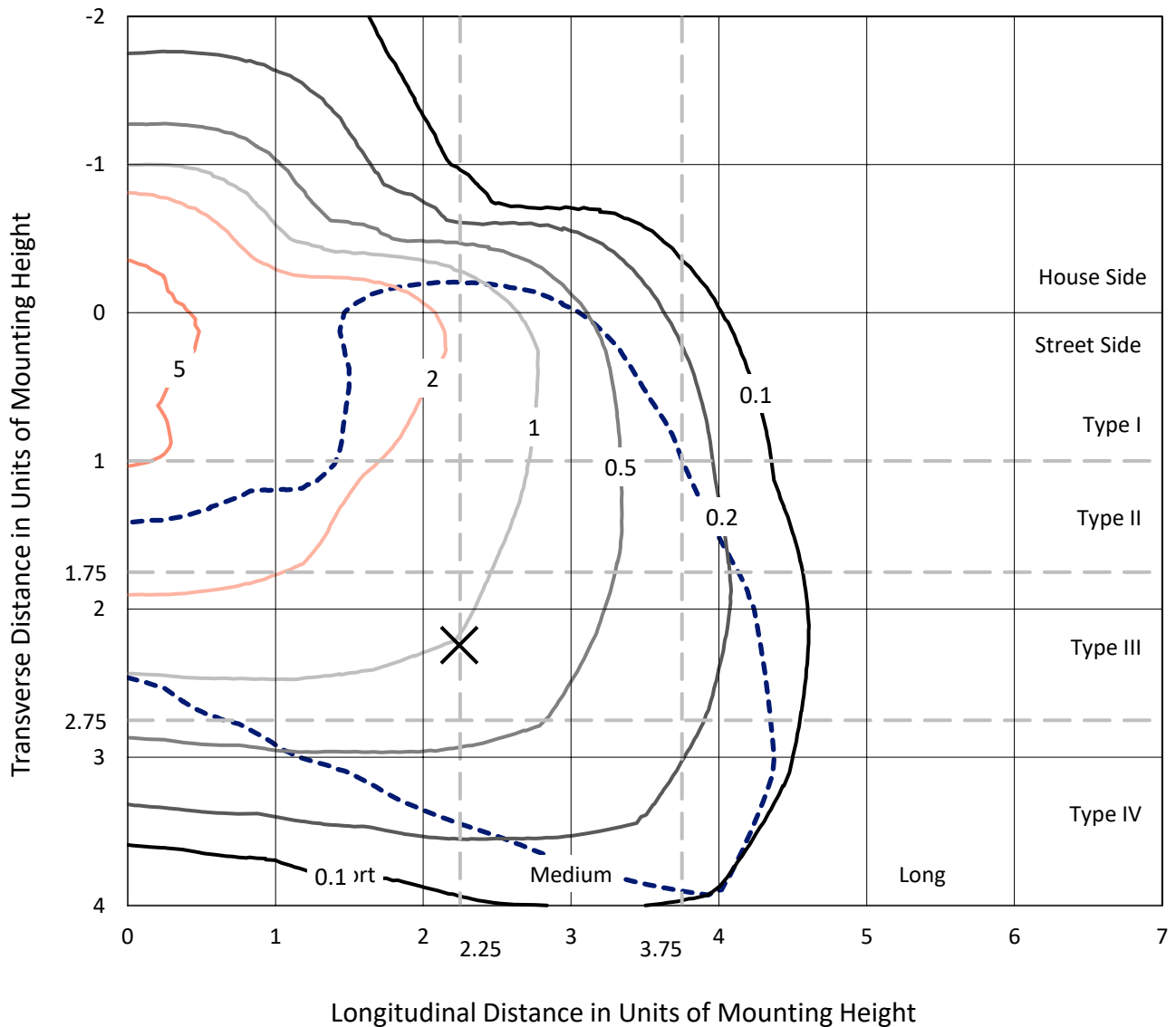
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968703
 CATALOG NUMBER: NAV-SB5C-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

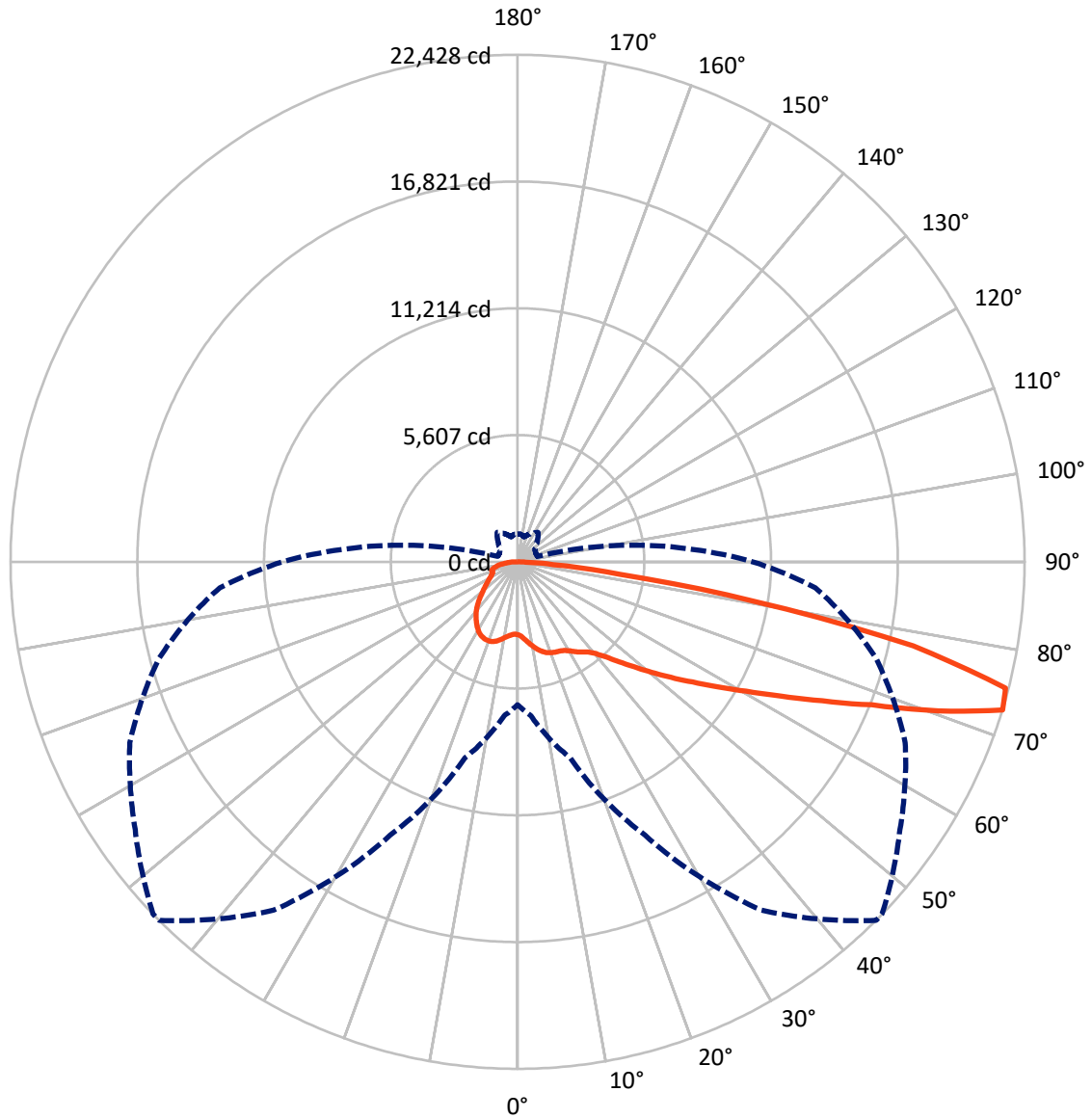
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P968703
CATALOG NUMBER: NAV-SB5C-722-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P968703
 CATALOG NUMBER: NAV-SB5C-722-U-T4W

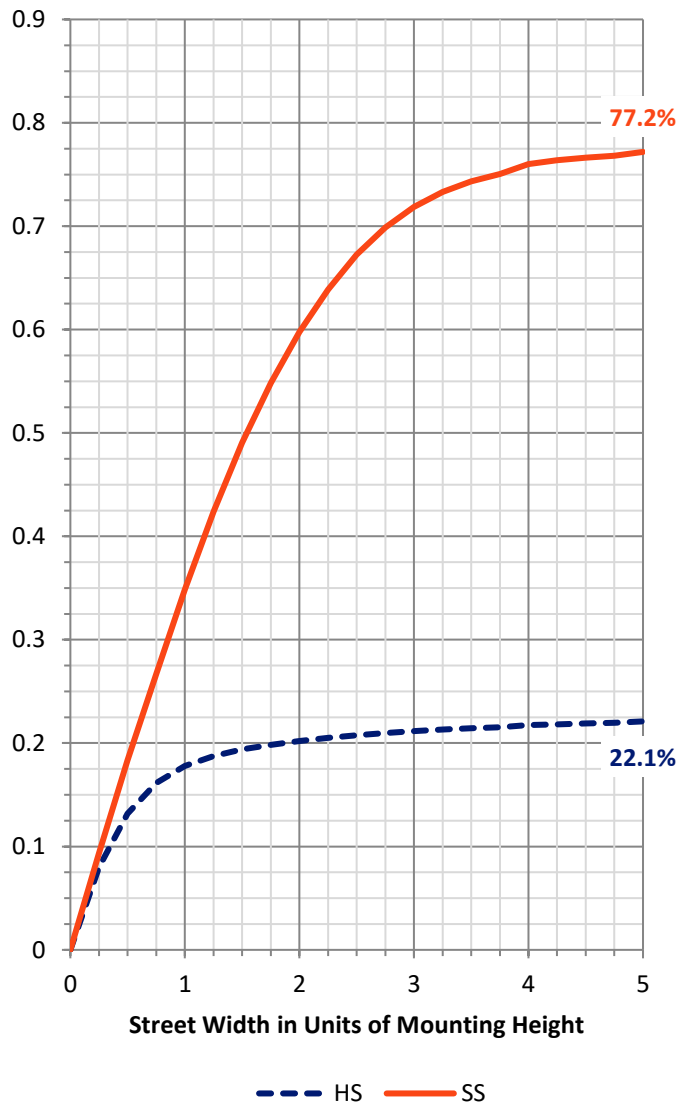
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7227.3	0.0	7227.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24742.5	0.0	24742.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	31969.7	0.0	31969.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	1.0
10°-20°	1094.4	3.4
20°-30°	1903.8	6.0
30°-40°	2729.3	8.5
40°-50°	3843.0	12.0
50°-60°	5886.3	18.4
60°-70°	8527.2	26.7
70°-80°	6809.5	21.3
80°-90°	848.1	2.7
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°	31969.7	100.0
0°-180°	31969.7	100.0

Coefficient of Utilization

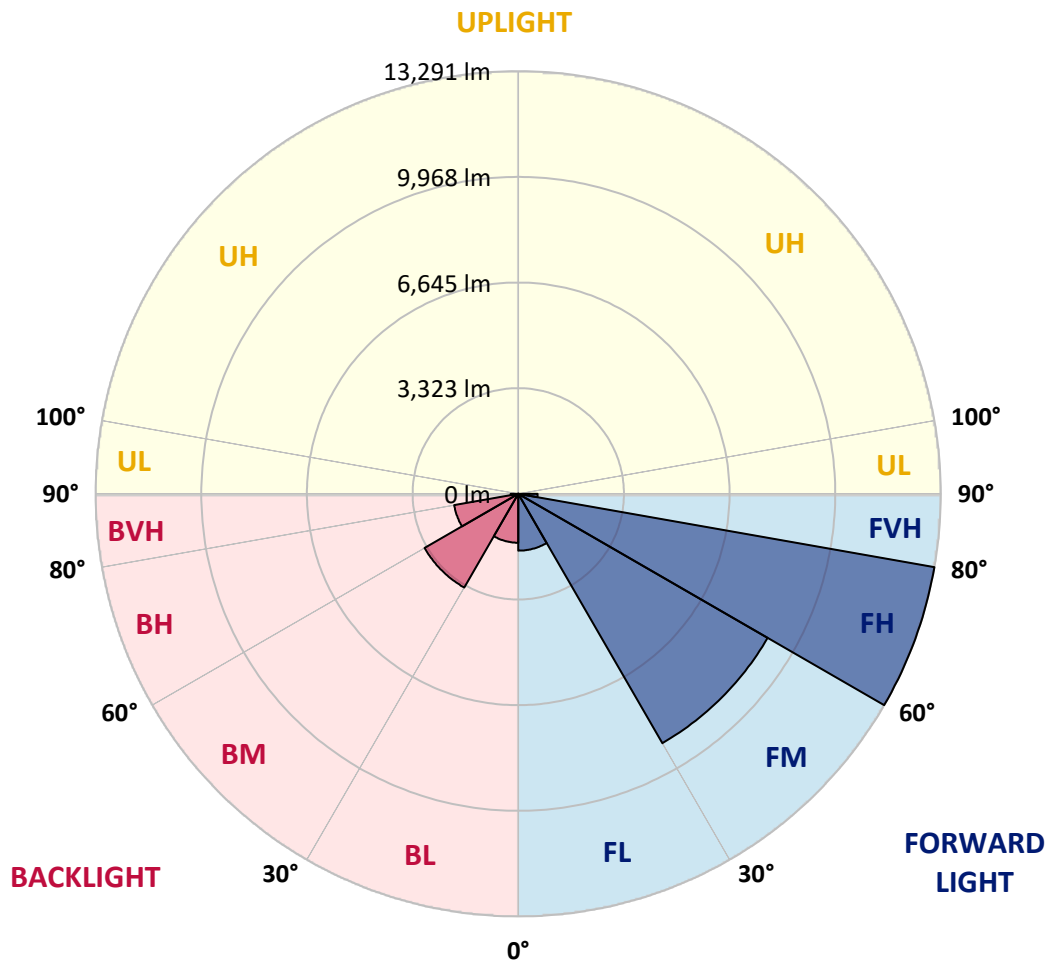


REPORT NUMBER: P968703
 CATALOG NUMBER: NAV-SB5C-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.8	5.6			
FM (30°-60°)	9055.5	28.3			
FH (60°-80°)	13290.8	41.6			G5
FVH (80°-90°)	608.4	1.9			G4/750
BL (0°-30°)	1538.7	4.8	B3/2500		
BM (30°-60°)	3403.0	10.6	B3/5000		
BH (60°-80°)	2045.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	239.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short



REPORT NUMBER: P968703
 CATALOG NUMBER: NAV-SB5C-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2
2.5°	3351.4	3373.4	3353.1	3334.6	3326.1	3304.3	3302.6	3289.1	3280.7	3257.1	3250.4
5°	3585.6	3614.2	3580.5	3543.4	3509.7	3455.9	3449.1	3410.4	3366.6	3316.1	3287.5
7.5°	3849.9	3875.2	3836.5	3780.9	3722.0	3632.7	3631.0	3560.2	3491.3	3405.4	3356.5
10°	4080.6	4114.3	4062.2	3986.3	3912.2	3811.2	3799.4	3718.6	3631.0	3519.8	3445.7
12.5°	4284.4	4308.1	4257.5	4164.9	4079.0	3977.9	3962.8	3873.5	3775.8	3649.5	3555.2
15°	4446.1	4476.5	4409.0	4309.7	4218.8	4119.4	4105.9	4025.1	3927.4	3794.3	3673.1
17.5°	4552.2	4577.4	4508.5	4397.2	4309.7	4227.2	4217.1	4149.7	4063.8	3929.1	3799.4
20°	4592.6	4619.6	4547.2	4434.4	4353.5	4289.5	4284.4	4235.6	4176.7	4053.8	3922.4
22.5°	4633.1	4658.3	4564.0	4446.1	4375.4	4334.9	4333.3	4301.3	4277.7	4176.7	4048.6
25°	4796.4	4803.2	4676.9	4506.7	4405.8	4370.3	4368.7	4367.0	4377.1	4297.9	4185.1
27.5°	4937.9	4936.2	4828.5	4668.5	4511.8	4437.7	4436.0	4452.9	4484.9	4419.2	4326.5
30°	5145.1	5126.5	4998.5	4831.7	4688.7	4574.2	4564.0	4548.8	4574.2	4521.9	4468.0
32.5°	5584.6	5525.7	5318.5	5022.1	4835.1	4747.6	4734.1	4639.8	4649.9	4617.9	4591.0
35°	6214.5	6137.0	5860.8	5382.5	5017.1	4892.4	4885.7	4766.1	4745.9	4717.3	4727.4
37.5°	6964.0	6867.9	6546.3	5904.6	5330.3	5060.8	5050.7	4943.0	4860.4	4830.1	4887.4
40°	7716.7	7595.5	7329.4	6541.2	5791.8	5342.1	5310.1	5146.7	5052.4	5001.9	5123.2
42.5°	8447.6	8346.6	8119.2	7255.3	6360.9	5753.0	5682.3	5402.7	5331.9	5284.8	5503.7
45°	9094.3	9003.4	8836.6	8018.2	7027.9	6312.2	6243.1	5786.7	5764.8	5764.8	6081.4
47.5°	9619.8	9599.6	9422.7	8796.2	7814.4	6948.8	6829.2	6320.6	6379.5	6470.4	6901.6
50°	10202.5	10146.9	9958.3	9562.5	8738.9	7678.0	7580.3	6975.7	7196.3	7445.6	8087.2
52.5°	10738.1	10768.3	10557.9	10360.8	9783.1	8491.4	8319.6	7748.7	8225.3	8638.0	9476.6
55°	11288.7	11290.5	11231.5	11204.6	10877.8	9390.7	9202.1	8678.4	9436.3	9948.2	11096.8
57.5°	11805.8	11809.2	11896.8	12134.3	12147.7	10428.1	10214.3	9820.2	10781.9	11303.9	12767.5
60°	12267.3	12290.9	12530.0	13085.8	13264.3	11617.1	11415.1	11169.2	12173.0	12698.4	14524.0
62.5°	12422.2	12508.1	13040.3	13830.1	14367.4	13075.6	12877.0	12730.4	13634.8	14123.2	15992.6
65°	12159.5	12356.5	13385.6	14444.8	15502.5	14808.6	14611.6	14451.6	15153.9	15613.6	17198.5
67.5°	11514.4	11768.7	13365.3	15089.8	16880.1	16893.6	16710.1	16334.5	16782.4	16959.2	17590.8
70°	9815.2	10195.8	12188.1	15330.7	18461.5	19744.9	19568.0	18601.3	18407.7	17552.1	16486.0
72.5°	6323.9	6835.9	8974.8	13348.5	18813.5	22427.7	22417.6	20647.5	18921.3	16400.1	13222.2
75°	2307.3	2620.5	4169.9	8378.6	15792.2	22291.3	22356.9	20297.3	17272.5	12668.1	8237.1
77.5°	840.4	919.5	1360.8	3220.0	9712.4	17885.5	18022.0	16226.7	12294.3	6357.7	3263.9
80°	441.3	485.0	697.2	1249.7	4161.5	10621.9	10835.8	9643.4	5778.2	1914.9	978.5
82.5°	244.2	264.4	390.7	678.8	1874.4	4542.1	4670.1	3809.5	2032.8	811.8	404.2
85°	131.4	139.8	183.6	370.5	916.1	1574.7	1610.1	1138.5	810.1	476.6	195.4
87.5°	38.7	47.2	60.7	117.9	358.7	353.6	362.1	225.7	320.0	240.9	64.0
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: P968703
 CATALOG NUMBER: NAV-SB5C-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2	3225.2
2.5°	3240.3	3235.2	3216.7	3208.2	3198.2	3196.5	3204.9	3206.6	3208.2	3210.0	3216.7
5°	3270.6	3253.8	3237.0	3226.8	3230.2	3231.8	3248.7	3260.5	3268.9	3275.7	3279.0
7.5°	3329.5	3316.1	3287.5	3285.7	3290.8	3305.9	3327.9	3354.8	3370.0	3381.8	3385.2
10°	3417.1	3391.8	3358.2	3363.2	3373.4	3395.2	3440.7	3462.6	3487.9	3509.7	3504.7
12.5°	3506.4	3484.5	3445.7	3449.1	3465.9	3504.7	3548.4	3575.4	3592.3	3609.1	3615.9
15°	3622.6	3583.8	3541.8	3541.8	3572.0	3614.2	3634.3	3656.3	3666.3	3684.9	3691.6
17.5°	3742.2	3691.6	3636.1	3632.7	3669.7	3689.9	3701.8	3705.1	3708.4	3728.6	3735.4
20°	3861.7	3806.1	3727.0	3720.2	3728.6	3725.4	3723.6	3720.2	3725.4	3750.6	3760.7
22.5°	3979.7	3915.6	3806.1	3775.8	3752.2	3720.2	3718.6	3716.9	3720.2	3745.6	3762.4
25°	4117.7	4040.2	3893.8	3802.7	3723.6	3679.9	3684.9	3686.6	3689.9	3710.2	3737.2
27.5°	4267.6	4181.7	3974.5	3794.3	3651.3	3620.9	3612.5	3617.5	3629.3	3661.3	3693.3
30°	4417.5	4316.5	4048.6	3760.7	3560.2	3518.2	3491.3	3503.0	3540.0	3572.0	3607.4
32.5°	4553.9	4452.9	4107.6	3686.6	3444.1	3378.4	3343.0	3358.2	3395.2	3407.0	3449.1
35°	4713.9	4599.4	4132.9	3568.6	3317.7	3216.7	3169.5	3147.7	3166.2	3154.4	3191.4
37.5°	4892.4	4772.8	4129.5	3413.8	3169.5	3053.4	2987.7	2905.2	2866.4	2826.0	2851.2
40°	5156.9	4985.1	4089.1	3226.8	2985.9	2879.8	2762.0	2622.2	2534.6	2455.5	2460.5
42.5°	5517.3	5279.8	4015.0	3021.4	2778.9	2679.5	2519.4	2356.1	2218.0	2086.7	2074.9
45°	6054.5	5665.5	3922.4	2802.5	2554.8	2457.1	2283.7	2100.1	1943.5	1775.1	1754.9
47.5°	6829.2	6184.1	3834.8	2553.2	2319.1	2229.8	2073.2	1903.1	1717.8	1554.4	1536.0
50°	7893.5	6928.6	3754.0	2310.7	2086.7	2019.2	1894.6	1721.2	1534.2	1402.9	1394.5
52.5°	9247.7	7940.7	3720.2	2076.5	1869.4	1844.2	1744.8	1583.1	1406.3	1295.1	1286.7
55°	10802.1	9151.6	3720.2	1852.6	1679.1	1687.5	1618.5	1468.6	1315.3	1216.0	1205.8
57.5°	12388.6	10377.6	3652.9	1645.4	1517.4	1552.8	1509.0	1377.6	1239.5	1136.8	1119.9
60°	13850.3	11405.0	3380.0	1456.7	1374.2	1429.9	1401.2	1288.3	1119.9	1034.0	1020.6
62.5°	14973.7	11984.3	2854.6	1306.9	1256.3	1320.4	1305.2	1170.4	1098.1	1062.7	1050.9
65°	15536.1	11890.0	2182.6	1173.8	1157.0	1256.3	1224.4	1219.3	1162.0	1121.7	1108.1
67.5°	15190.9	11078.3	1583.1	1076.1	1099.7	1197.4	1320.4	1340.6	1234.5	1155.3	1141.8
70°	13676.9	9609.7	1178.9	983.5	1027.4	1199.1	1505.6	1402.9	1210.9	1118.3	1103.1
72.5°	10404.6	7166.0	914.5	885.9	933.1	1207.6	1588.1	1374.2	1143.5	1236.1	1226.0
75°	5950.0	3934.2	734.3	766.3	815.1	1128.4	1546.0	1300.1	1091.3	1135.1	1135.1
77.5°	2268.5	1512.4	606.3	648.4	655.2	985.2	1478.7	1295.1	1039.1	1013.8	924.6
80°	786.5	591.1	501.8	515.4	507.0	875.8	1418.1	1126.7	850.4	761.3	735.9
82.5°	321.6	294.7	397.5	380.6	360.4	680.4	1145.2	921.3	695.6	614.7	607.9
85°	139.8	187.0	262.7	230.7	208.8	471.6	917.9	779.7	587.7	507.0	505.2
87.5°	28.6	70.7	111.1	104.4	107.8	315.0	651.8	554.1	415.9	311.6	244.2
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)