

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: P885094

Luminaire Tested: **NAV-SB6B-722-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26998 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

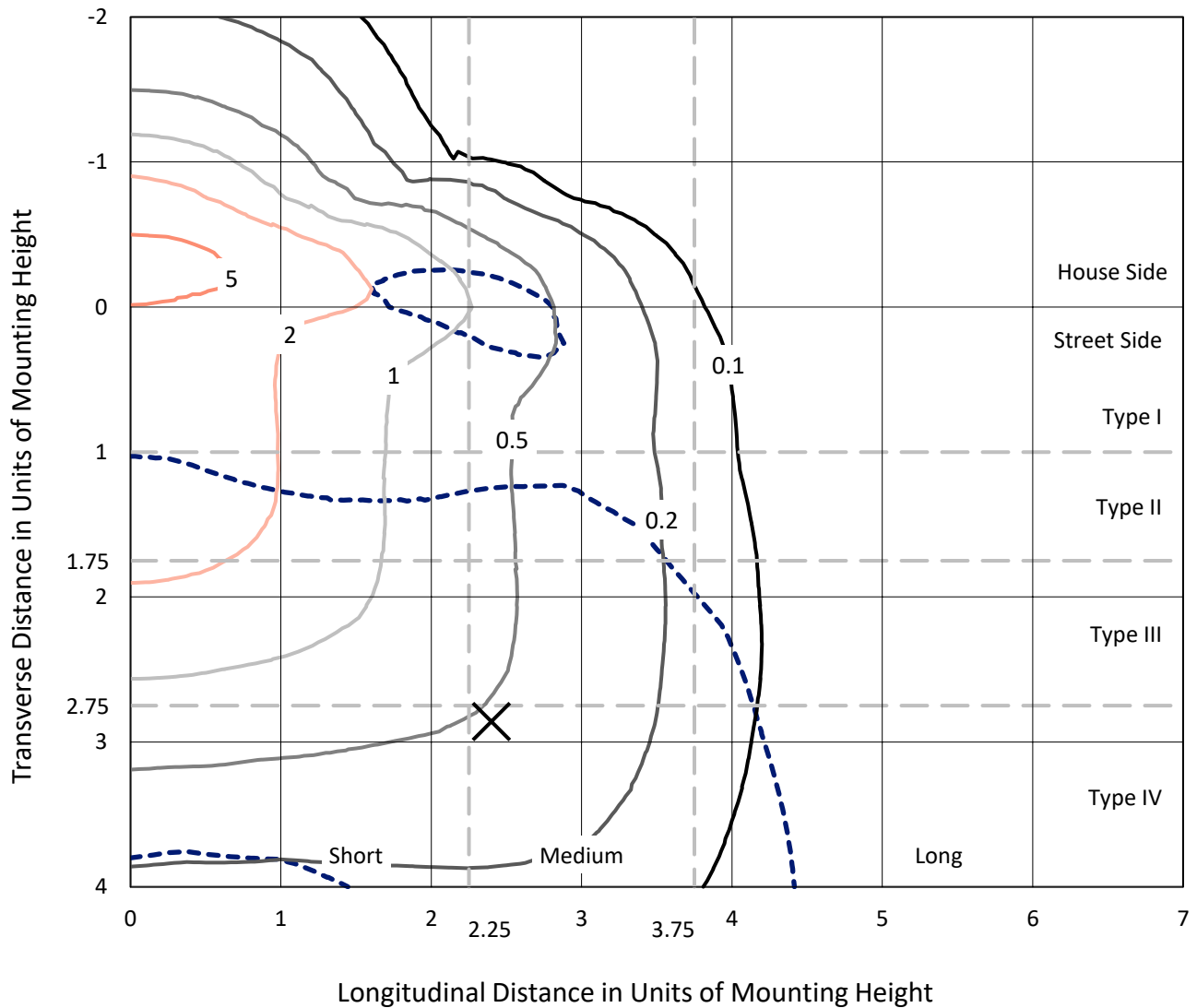
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885094
 CATALOG NUMBER: NAV-SB6B-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

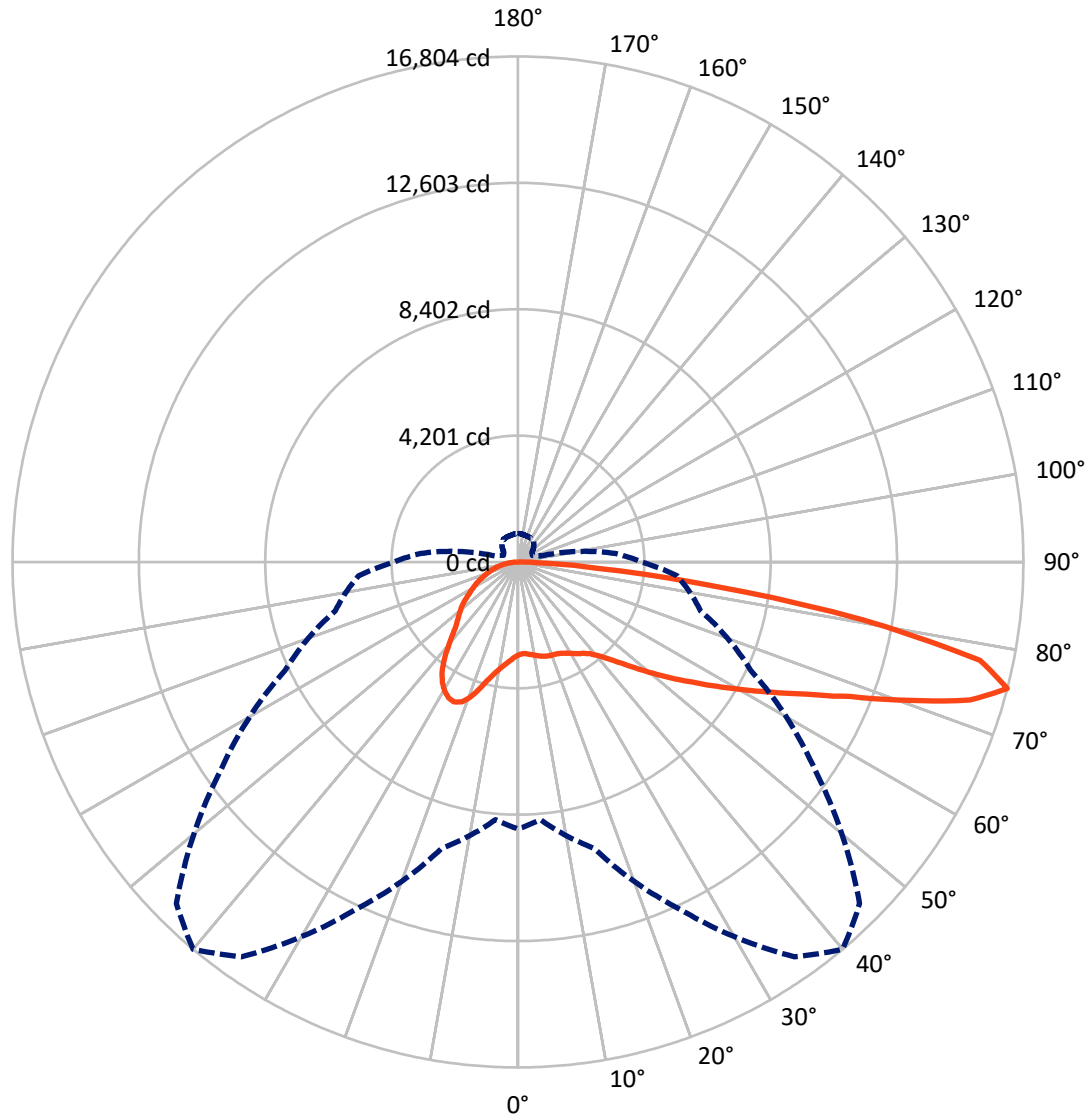
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P885094
CATALOG NUMBER: NAV-SB6B-722-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P885094

CATALOG NUMBER: NAV-SB6B-722-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8364.9	0.0	8364.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18633.1	0.0	18633.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	26998.0	0.0	26998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	1.1
10°-20°	1034.7	3.8
20°-30°	1889.2	7.0
30°-40°	2679.4	9.9
40°-50°	3618.0	13.4
50°-60°	4867.2	18.0
60°-70°	6177.6	22.9
70°-80°	5606.5	20.8
80°-90°	817.3	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°	26998.0	100.0
0°-180°	26998.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885094

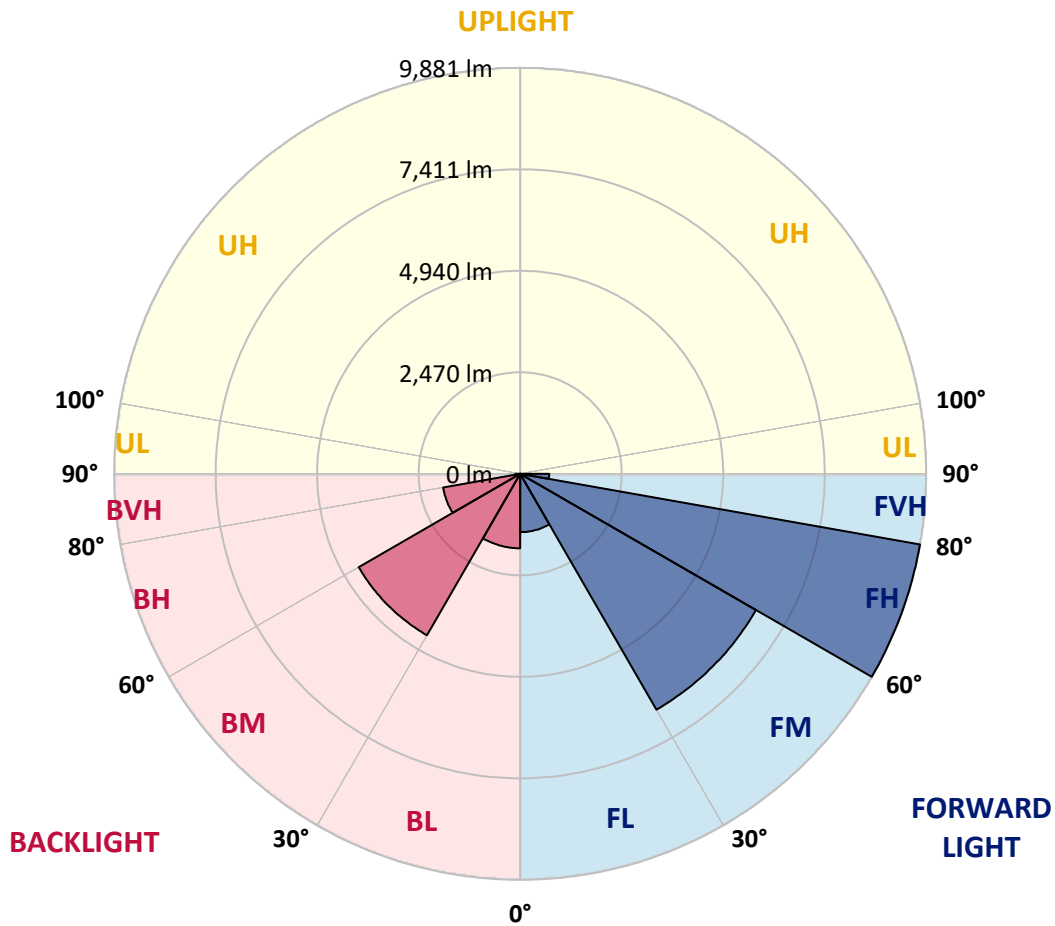
CATALOG NUMBER: NAV-SB6B-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.1	5.3			
FM (30°-60°)	6627.4	24.5			
FH (60°-80°)	9880.9	36.6			G4/12000
FVH (80°-90°)	704.7	2.6			G4/750
BL (0°-30°)	1811.9	6.7	B3/2500		
BM (30°-60°)	4537.2	16.8	B3/5000		
BH (60°-80°)	1903.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	112.5	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



REPORT NUMBER: P885094

CATALOG NUMBER: NAV-SB6B-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3
2.5°	3040.0	3057.2	3052.9	3047.2	3047.2	3048.6	3047.2	3057.2	3067.2	3077.2	3093.0
5°	3071.5	3088.7	3080.1	3072.9	3067.2	3065.8	3061.5	3060.1	3065.8	3078.7	3100.1
7.5°	3133.1	3150.3	3137.4	3124.5	3113.0	3107.3	3101.6	3093.0	3088.7	3095.8	3125.9
10°	3201.8	3219.0	3203.2	3180.3	3161.7	3154.6	3148.8	3140.2	3134.5	3138.8	3171.7
12.5°	3270.5	3287.7	3266.2	3234.7	3210.4	3206.1	3198.9	3196.1	3194.7	3193.2	3226.2
15°	3335.0	3349.3	3322.1	3284.9	3259.1	3251.9	3244.8	3249.1	3256.2	3264.8	3302.0
17.5°	3385.1	3399.4	3359.3	3310.6	3286.3	3283.4	3279.1	3293.5	3313.5	3335.0	3380.8
20°	3430.9	3445.2	3393.7	3327.8	3299.2	3299.2	3300.6	3330.7	3359.3	3390.8	3453.8
22.5°	3495.4	3506.8	3443.8	3353.6	3312.1	3314.9	3326.4	3356.5	3392.3	3435.2	3522.6
25°	3591.3	3599.9	3522.6	3402.3	3355.0	3363.6	3373.6	3388.0	3422.3	3472.4	3589.9
27.5°	3745.9	3753.1	3651.4	3488.2	3416.6	3430.9	3445.2	3435.2	3451.0	3493.9	3644.3
30°	3963.6	3967.9	3839.0	3622.8	3521.1	3528.3	3531.2	3489.6	3459.6	3493.9	3682.9
32.5°	4221.4	4219.9	4066.7	3786.0	3640.0	3632.8	3608.5	3526.9	3456.7	3486.8	3717.3
35°	4620.9	4605.1	4407.5	4015.2	3774.6	3730.2	3672.9	3568.4	3471.0	3479.6	3747.4
37.5°	5282.4	5233.7	4960.2	4390.3	3975.1	3861.9	3777.5	3635.7	3502.5	3476.7	3783.2
40°	6028.5	5966.9	5666.2	4904.4	4275.8	4093.9	3957.9	3731.6	3554.1	3489.6	3836.2
42.5°	6913.4	6826.0	6502.4	5510.1	4656.7	4393.2	4188.4	3853.3	3630.0	3531.2	3907.8
45°	8000.2	7884.2	7426.0	6193.1	5136.4	4785.5	4512.0	4038.1	3745.9	3611.3	4015.2
47.5°	9098.5	9127.2	8475.6	6975.0	5712.0	5269.5	4917.3	4315.9	3914.9	3740.2	4188.4
50°	10265.6	10285.6	9519.5	7841.3	6365.0	5816.5	5372.6	4626.6	4149.8	3923.5	4447.6
52.5°	11176.3	11179.1	10467.5	8747.7	7045.1	6417.9	5863.8	4981.7	4421.8	4166.9	4792.7
55°	11746.2	11739.0	11131.9	9605.4	7827.0	7049.4	6407.9	5385.5	4754.0	4453.3	5226.6
57.5°	12160.0	12138.5	11590.1	10342.9	8660.4	7795.5	7023.7	5843.7	5146.4	4794.1	5797.9
60°	12317.5	12304.6	11900.8	10980.1	9536.7	8620.3	7733.9	6356.4	5591.7	5196.5	6532.5
62.5°	12377.7	12402.0	12205.8	11597.3	10474.6	9533.8	8514.3	6969.2	6092.9	5651.9	7307.2
65°	12589.6	12634.0	12593.9	12404.9	11534.3	10603.5	9549.6	7698.1	6639.9	6140.1	8116.2
67.5°	13009.2	13053.5	13070.7	13371.4	12828.7	11936.6	10841.2	8605.9	7280.0	6647.1	8724.8
70°	12999.1	12986.2	13289.8	14140.4	14449.7	13782.4	12582.4	9722.9	8043.2	7068.0	8802.1
72.5°	11832.1	11729.0	12446.4	14131.8	15798.6	15709.8	14708.9	11163.4	8701.9	7119.6	7638.0
75°	8876.6	8601.6	9868.9	12735.7	16023.4	16803.8	16060.6	12056.9	8545.8	6290.5	5315.4
77.5°	3796.1	3519.7	5013.2	9427.9	14340.9	15708.4	14820.6	10519.0	6821.8	4159.8	2610.4
80°	993.8	992.3	1515.0	4274.3	9752.9	11600.1	10176.8	6793.1	3897.7	1486.4	720.3
82.5°	411.0	400.9	557.0	1662.5	4765.5	6509.6	5312.5	3030.0	1407.6	402.4	239.1
85°	153.2	151.8	270.6	574.2	1681.1	2684.9	1943.1	774.7	350.8	196.2	107.4
87.5°	43.0	41.5	58.7	199.0	409.5	621.5	332.2	127.4	98.8	77.3	31.5
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: P885094

CATALOG NUMBER: NAV-SB6B-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3	3087.3
2.5°	3097.3	3104.4	3117.3	3127.4	3140.2	3154.6	3174.6	3187.5	3200.4	3209.0	3203.2
5°	3110.2	3125.9	3158.9	3191.8	3230.5	3266.2	3307.8	3337.8	3362.2	3369.3	3372.2
7.5°	3138.8	3164.6	3220.4	3276.3	3337.8	3396.6	3456.7	3508.2	3549.8	3565.5	3567.0
10°	3188.9	3223.3	3302.0	3380.8	3462.4	3552.6	3630.0	3704.4	3763.1	3787.5	3788.9
12.5°	3251.9	3294.9	3398.0	3506.8	3619.9	3744.5	3844.8	3936.4	4009.4	4042.4	4042.4
15°	3333.6	3389.4	3521.1	3667.2	3833.3	4006.6	4134.0	4235.7	4317.3	4357.4	4354.5
17.5°	3422.3	3496.8	3662.9	3883.4	4121.1	4348.8	4497.7	4572.2	4656.7	4695.3	4693.9
20°	3508.2	3599.9	3837.6	4158.3	4474.8	4716.8	4837.1	4857.1	4862.9	4867.2	4878.6
22.5°	3597.0	3720.2	4056.7	4504.9	4844.2	5011.8	5029.0	4943.0	4822.8	4766.9	4782.7
25°	3694.4	3857.6	4343.1	4887.2	5162.1	5182.2	5050.4	4841.4	4613.7	4509.2	4524.9
27.5°	3788.9	4016.6	4686.7	5252.3	5391.2	5215.1	4931.6	4635.2	4360.2	4250.0	4262.9
30°	3883.4	4198.4	5066.2	5571.7	5495.8	5133.5	4744.0	4413.2	4136.9	4020.9	4033.8
32.5°	3979.4	4410.4	5502.9	5802.2	5477.2	4960.2	4510.6	4164.1	3920.6	3798.9	3814.7
35°	4088.2	4671.0	5916.8	5928.2	5352.6	4705.3	4202.7	3866.2	3654.3	3556.9	3578.4
37.5°	4229.9	5001.8	6281.9	5959.7	5134.9	4331.6	3820.4	3514.0	3339.3	3294.9	3326.4
40°	4406.1	5399.8	6561.1	5909.6	4812.7	3877.7	3402.3	3157.4	3058.6	3068.6	3103.0
42.5°	4635.2	5845.2	6757.3	5780.7	4364.5	3409.4	3035.7	2926.9	2974.1	3014.2	3051.5
45°	4933.0	6307.7	6879.0	5561.6	3857.6	3012.8	2819.5	2845.3	2881.1	2885.4	2914.0
47.5°	5313.9	6775.9	6959.2	5230.9	3340.7	2733.6	2682.0	2687.7	2680.6	2650.5	2673.4
50°	5789.3	7231.3	7030.8	4792.7	2901.1	2558.9	2490.1	2470.1	2371.3	2273.9	2286.8
52.5°	6330.6	7649.4	7060.9	4248.6	2558.9	2412.8	2301.1	2175.1	1990.4	1960.3	1970.3
55°	6932.0	8036.0	6983.6	3579.8	2271.1	2225.2	2056.3	1904.5	1884.4	1858.7	1863.0
57.5°	7650.8	8452.7	6826.0	2833.8	1976.1	2006.1	1841.5	1858.7	1822.9	1782.8	1775.6
60°	8437.0	8883.7	6549.7	2153.6	1671.1	1732.6	1785.6	1784.2	1774.2	1741.2	1729.8
62.5°	9144.4	9167.3	6005.5	1649.6	1403.3	1520.7	1665.3	1663.9	1655.3	1636.7	1629.5
65°	9565.3	9124.3	5097.7	1298.8	1182.8	1346.0	1502.1	1513.6	1515.0	1513.6	1513.6
67.5°	9490.9	8621.7	3851.9	1033.9	1000.9	1168.5	1340.3	1356.0	1367.5	1370.4	1373.2
70°	8648.9	7517.7	2511.6	824.8	839.1	1012.4	1187.1	1202.8	1212.9	1224.3	1230.0
72.5°	6741.6	5527.3	1437.7	667.3	697.4	877.8	1035.3	1053.9	1059.6	1081.1	1089.7
75°	4108.2	3250.5	776.1	525.5	572.8	750.3	884.9	906.4	916.4	942.2	945.1
77.5°	1953.2	1407.6	442.5	409.5	461.1	612.9	747.5	771.8	744.6	758.9	747.5
80°	660.1	522.7	279.2	312.2	352.3	478.3	598.5	622.9	565.6	562.8	557.0
82.5°	230.5	211.9	177.6	207.6	227.7	342.2	452.5	484.0	421.0	419.6	399.5
85°	90.2	85.9	98.8	113.1	136.0	210.5	297.8	313.6	259.2	209.1	206.2
87.5°	18.6	20.0	24.3	25.8	41.5	73.0	107.4	131.7	104.5	88.8	81.6
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)