

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: P969225

Luminaire Tested: **NAV-SB5D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44682.8 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

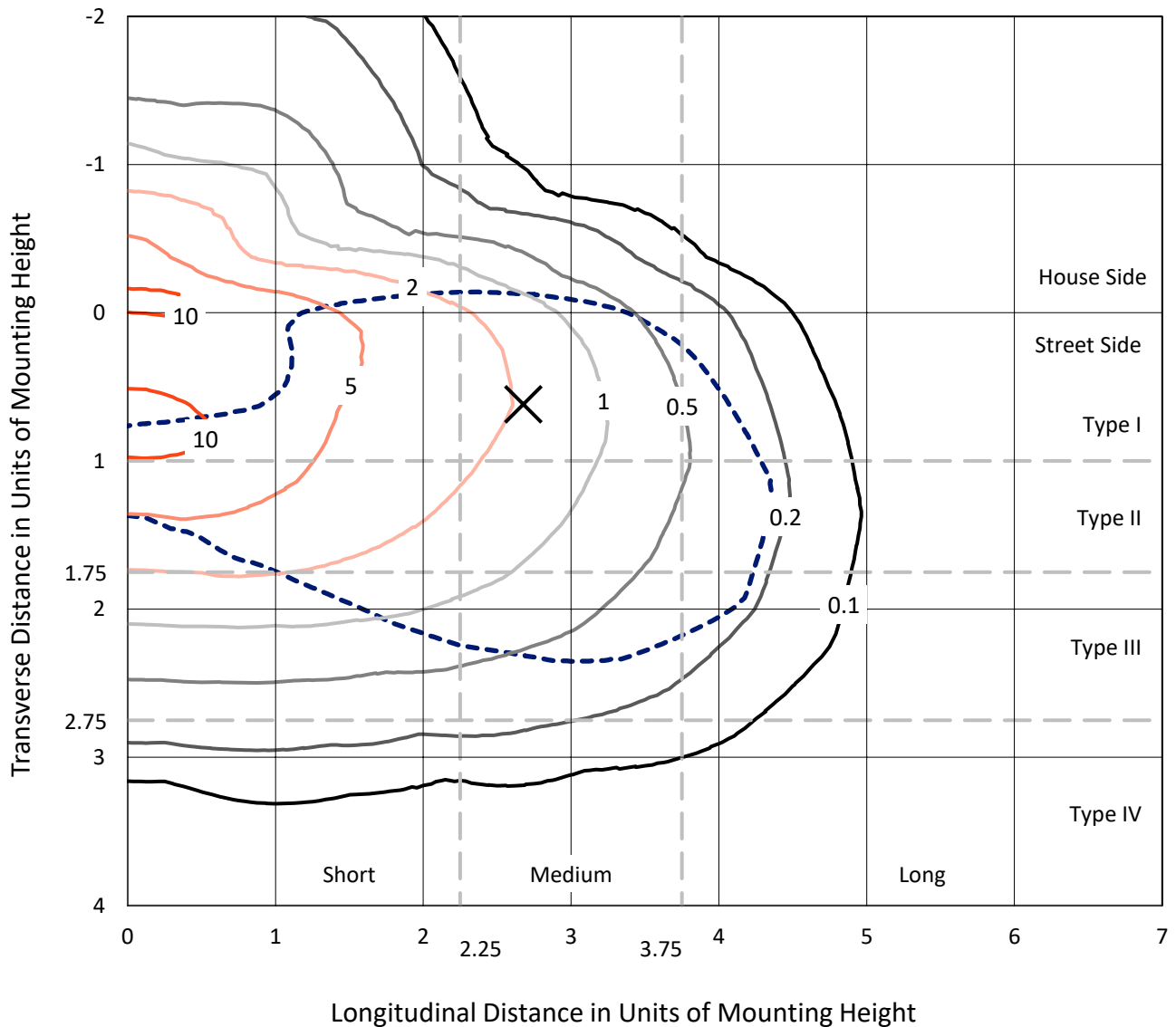
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

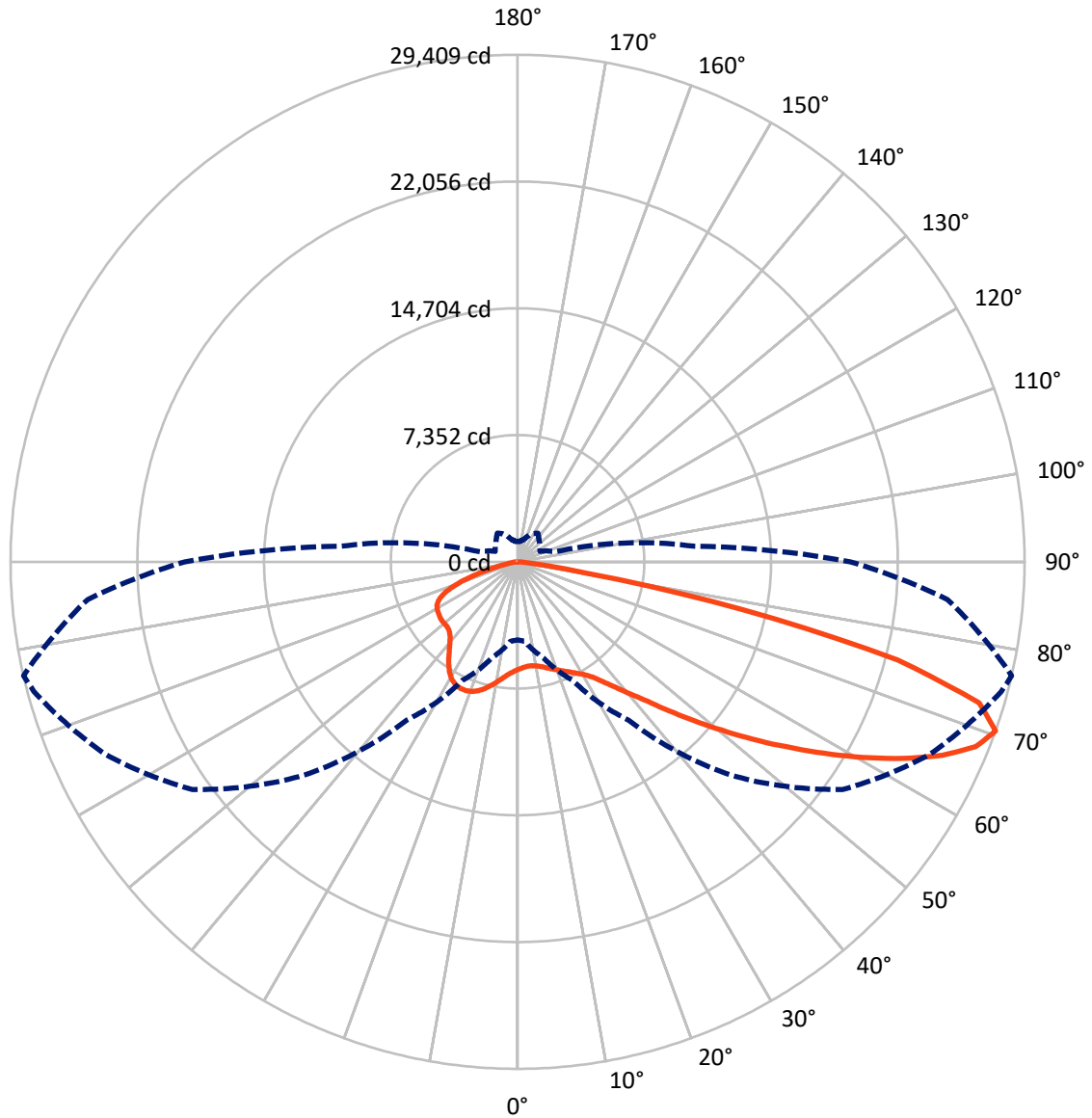
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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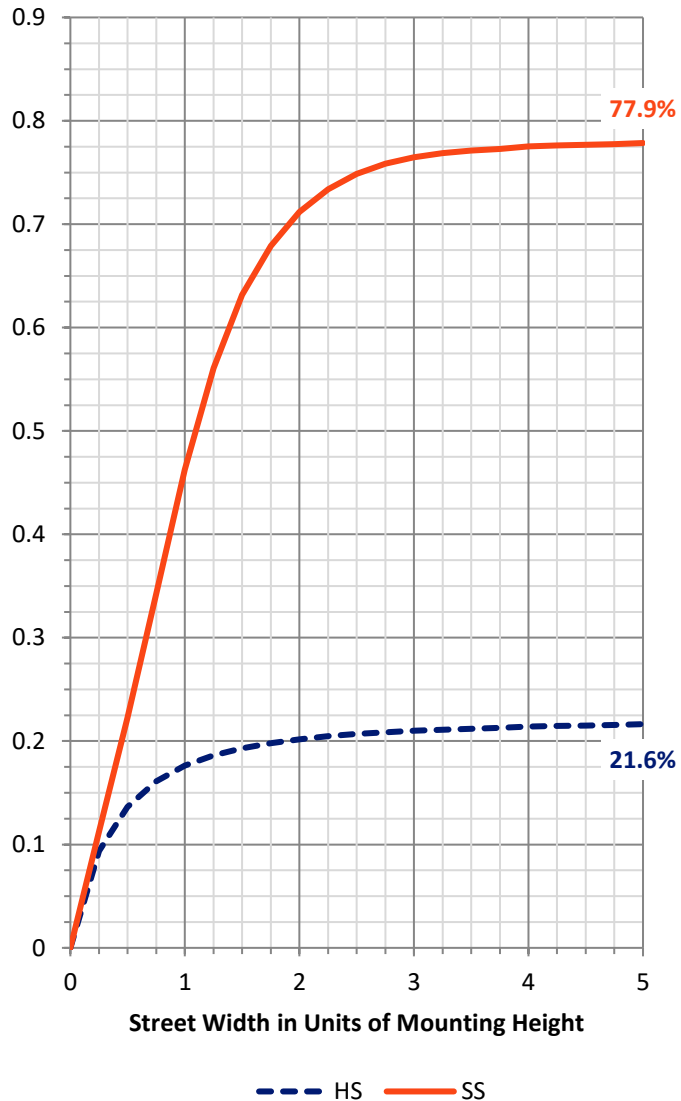
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9784.8	0.0	9784.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	34898.0	0.0	34898.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	44682.8	0.0	44682.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.5	1.3
10°-20°	1715.9	3.8
20°-30°	2934.3	6.6
30°-40°	4718.7	10.6
40°-50°	7367.2	16.5
50°-60°	9840.8	22.0
60°-70°	10488.8	23.5
70°-80°	6456.8	14.5
80°-90°	565.8	1.3
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°	44682.8	100.0
0°-180°	44682.8	100.0

Coefficient of Utilization

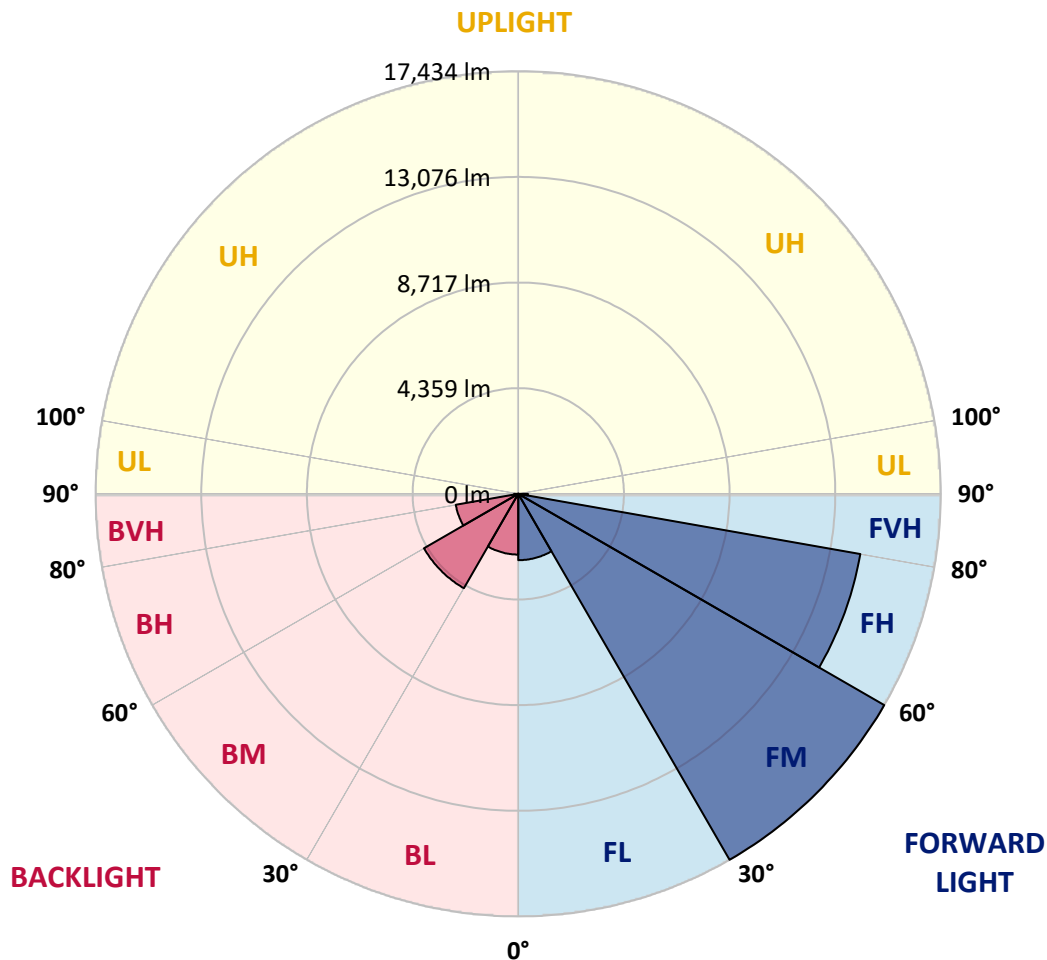


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2737.5	6.1			
FM (30°-60°)	17434.3	39.0			
FH (60°-80°)	14330.5	32.1			G5
FVH (80°-90°)	395.6	0.9			G3/500
BL (0°-30°)	2507.2	5.6	B4/5000		
BM (30°-60°)	4492.4	10.1	B3/5000		
BH (60°-80°)	2615.1	5.9	B4/5000		G4/5000
BVH (80°-90°)	170.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6
2.5°	5746.3	5743.9	5773.7	5782.8	5837.8	5876.6	5949.9	6027.7	6128.4	6139.9	6201.7
5°	5414.4	5414.4	5448.7	5485.4	5556.3	5634.1	5746.3	5881.2	6055.2	6082.7	6236.0
7.5°	5132.9	5151.2	5181.0	5251.9	5334.3	5446.4	5618.0	5810.3	6039.1	6082.7	6329.8
10°	4906.4	4927.0	4963.6	5020.8	5144.4	5300.0	5524.2	5771.4	6078.0	6146.7	6467.0
12.5°	4835.4	4856.0	4876.6	4920.1	5034.5	5217.6	5485.4	5789.7	6171.8	6240.5	6654.7
15°	5000.2	5025.4	5009.4	4997.9	5057.5	5224.4	5503.6	5856.0	6288.6	6387.0	6885.8
17.5°	5380.1	5389.2	5352.7	5245.0	5235.9	5325.2	5590.7	5947.6	6435.1	6542.6	7119.2
20°	5993.4	5977.4	5901.8	5689.1	5567.7	5549.5	5739.4	6084.9	6586.0	6700.5	7371.0
22.5°	6826.4	6808.0	6657.1	6320.7	6050.6	5872.1	5954.4	6263.4	6755.5	6883.6	7615.9
25°	7865.3	7840.1	7618.1	7160.4	6741.7	6300.1	6247.4	6499.1	6963.6	7082.6	7872.2
27.5°	9078.2	9057.6	8817.3	8213.1	7609.0	6885.8	6611.2	6776.0	7181.0	7316.0	8160.5
30°	10382.5	10442.1	10016.4	9366.6	8602.2	7650.2	7101.0	7117.0	7462.5	7583.9	8510.7
32.5°	11915.8	12018.8	11506.1	10682.3	9638.8	8480.8	7718.9	7593.0	7872.2	7972.9	8952.3
35°	13435.3	13552.0	13126.4	12215.6	11014.1	9460.3	8364.2	8139.9	8416.8	8526.7	9538.1
37.5°	14748.9	14904.5	14684.8	13893.1	12485.6	10641.1	9206.3	8782.9	9087.3	9224.6	10325.3
40°	15785.5	16023.5	16007.5	15513.2	14220.2	12073.7	10275.0	9577.1	9920.4	10069.1	11279.6
42.5°	16627.7	16833.7	17012.1	16986.9	16030.4	13700.8	11531.4	10609.2	10870.0	11041.6	12352.9
45°	17208.9	17428.6	17813.1	18227.3	17771.9	15442.2	12970.8	11833.4	12071.4	12330.0	13632.1
47.5°	17728.4	17977.9	18476.8	19133.5	19250.2	17190.6	14547.5	13259.1	13476.5	13744.2	14915.9
50°	17774.2	17989.3	18762.7	19694.1	20300.6	18870.4	16240.9	14858.7	15062.4	15348.5	16291.2
52.5°	16668.9	17007.5	18357.8	19678.2	20783.4	20275.4	17922.9	16522.4	16751.3	17094.5	17714.7
55°	12938.8	13435.3	17170.0	19064.8	20611.8	21183.9	19522.6	18291.3	18584.3	18943.5	19147.2
57.5°	11144.6	11362.0	13629.8	17948.1	19829.1	21419.6	20872.7	20078.6	20550.0	20943.6	20662.2
60°	10016.4	10197.2	11538.2	16211.2	18799.4	21046.6	21916.2	21744.6	22559.2	23028.4	22211.4
62.5°	8808.1	8979.7	10199.5	13536.0	17481.3	20426.4	22575.3	23282.4	24618.9	25131.5	23671.5
65°	7609.0	7755.5	8924.9	11373.5	15806.1	19806.3	22916.2	24612.0	26525.1	27056.0	24884.3
67.5°	6272.6	6393.8	7499.2	9595.3	13769.4	18957.3	23085.6	25657.8	28184.2	28639.6	25483.9
70°	4526.5	4620.3	5762.2	7588.4	11213.3	17497.3	23017.0	26399.3	29044.6	29408.5	25030.8
72.5°	2139.7	2224.4	3565.4	4927.0	7920.3	14655.0	21627.9	25811.1	28170.5	27989.7	22257.2
75°	1142.0	1215.1	2048.2	2702.6	4183.2	10046.1	17698.7	22234.3	23655.5	22776.6	16449.2
77.5°	773.5	830.7	1267.8	1622.5	1910.8	4769.1	11375.8	15394.2	14810.6	13359.8	8238.3
80°	613.3	672.8	1038.9	1098.5	924.6	1723.2	4700.4	7126.1	5119.2	4094.0	2343.4
82.5°	471.4	537.8	874.2	796.3	503.5	707.1	1368.5	2254.1	1311.3	997.7	567.5
85°	288.3	359.3	686.5	508.0	283.7	322.7	464.5	627.0	400.5	334.2	203.7
87.5°	146.5	205.9	347.9	185.3	128.1	75.5	123.6	123.6	105.3	91.5	52.6
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°	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6	6233.6
2.5°	6256.5	6302.3	6380.1	6453.4	6510.6	6565.4	6620.4	6650.2	6659.3	6695.9	6716.5
5°	6329.8	6414.4	6565.4	6707.4	6796.6	6851.5	6890.5	6913.3	6917.9	6929.3	6947.7
7.5°	6464.8	6599.8	6810.3	6952.3	7018.6	7014.0	6998.0	6940.8	6917.9	6897.3	6901.8
10°	6654.7	6833.3	7091.8	7190.3	7149.1	7039.2	6897.3	6730.3	6652.5	6576.9	6554.1
12.5°	6890.5	7117.0	7371.0	7366.5	7162.8	6881.2	6551.8	6295.4	6133.0	6016.2	5988.8
15°	7176.5	7437.4	7631.8	7476.2	7030.1	6524.3	6041.5	5707.3	5560.8	5432.7	5419.0
17.5°	7471.7	7750.8	7840.1	7441.9	6695.9	5995.6	5448.7	5185.6	5041.4	4972.8	4993.3
20°	7760.1	8036.9	7963.7	7245.1	6187.9	5396.1	4908.6	4764.5	4734.8	4750.8	4743.9
22.5°	8064.4	8311.5	7988.8	6865.2	5540.2	4782.8	4515.0	4519.6	4586.0	4634.0	4645.5
25°	8375.6	8542.7	7922.5	6316.0	4844.6	4332.0	4265.6	4338.8	4469.3	4563.1	4588.3
27.5°	8675.4	8748.7	7778.3	5636.4	4247.3	4009.3	4020.8	4171.8	4368.5	4499.0	4531.1
30°	9014.1	8931.7	7501.5	4872.0	3833.1	3732.4	3828.6	4004.8	4201.6	4318.2	4345.7
32.5°	9396.3	9089.6	7062.0	4164.9	3540.1	3510.4	3668.4	3782.8	3869.7	3904.0	3922.4
35°	9872.3	9311.6	6499.1	3668.4	3277.0	3348.0	3499.0	3441.7	3407.5	3389.2	3407.5
37.5°	10490.2	9611.3	5840.0	3345.7	3064.2	3231.2	3293.0	3114.6	2979.6	2913.2	2929.1
40°	11233.9	10050.7	5206.2	3096.2	2929.1	3130.6	3023.0	2807.9	2636.3	2542.4	2549.3
42.5°	12059.9	10510.8	4673.0	2908.5	2853.7	3048.1	2823.9	2567.6	2290.7	2260.9	2290.7
45°	12927.3	10984.4	4309.1	2764.4	2817.0	2977.2	2709.5	2295.3	2098.5	2219.7	2283.8
47.5°	13794.7	11419.2	4089.4	2656.9	2798.8	2897.2	2608.8	2144.3	2004.7	2180.9	2263.2
50°	14760.3	11808.3	3991.0	2579.0	2778.2	2865.1	2457.7	2105.4	1906.3	2022.9	2110.0
52.5°	15719.2	12110.4	3917.8	2501.2	2748.4	2840.0	2384.6	2059.5	1787.3	1794.2	1842.1
55°	16675.7	12307.2	3837.7	2398.3	2682.0	2785.0	2377.7	2009.2	1698.0	1665.9	1688.9
57.5°	17696.3	12419.3	3739.3	2283.8	2567.6	2645.4	2370.8	1970.4	1670.5	1618.0	1624.8
60°	18735.4	12584.0	3611.2	2144.3	2414.3	2478.3	2354.8	1956.6	1654.6	1565.3	1572.1
62.5°	19666.7	12641.2	3457.8	2011.6	2217.5	2313.6	2320.5	1945.1	1611.1	1457.8	1457.8
65°	20277.7	12394.1	3190.1	1860.5	2004.7	2144.3	2254.1	1906.3	1533.2	1380.0	1380.0
67.5°	20252.6	11689.3	2771.3	1665.9	1798.7	1956.6	2157.9	1839.9	1439.4	1283.8	1290.7
70°	19309.7	10297.9	2240.3	1439.4	1572.1	1755.2	2034.4	1741.5	1327.3	1178.5	1192.3
72.5°	16561.3	8059.8	1627.1	1173.9	1309.0	1546.9	1874.2	1622.5	1212.9	1084.8	1077.9
75°	11831.2	5100.9	1103.0	901.6	1018.3	1311.3	1675.2	1482.9	1107.6	1089.3	1027.5
77.5°	6043.7	2437.1	730.0	659.1	709.4	1034.3	1407.4	1325.0	1123.6	899.3	800.9
80°	1965.7	899.3	460.0	448.5	471.4	688.8	1089.3	1087.0	851.3	611.0	540.1
82.5°	627.0	386.7	299.8	288.3	276.9	432.6	759.7	860.5	574.4	386.7	384.5
85°	249.5	231.1	176.2	162.5	116.7	203.7	398.2	572.2	427.9	279.2	286.1
87.5°	91.5	91.5	48.1	34.3	25.2	68.7	107.5	171.6	244.9	144.2	141.9
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)