

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: P970276

Luminaire Tested: **NAV-SB6B-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28648.7 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

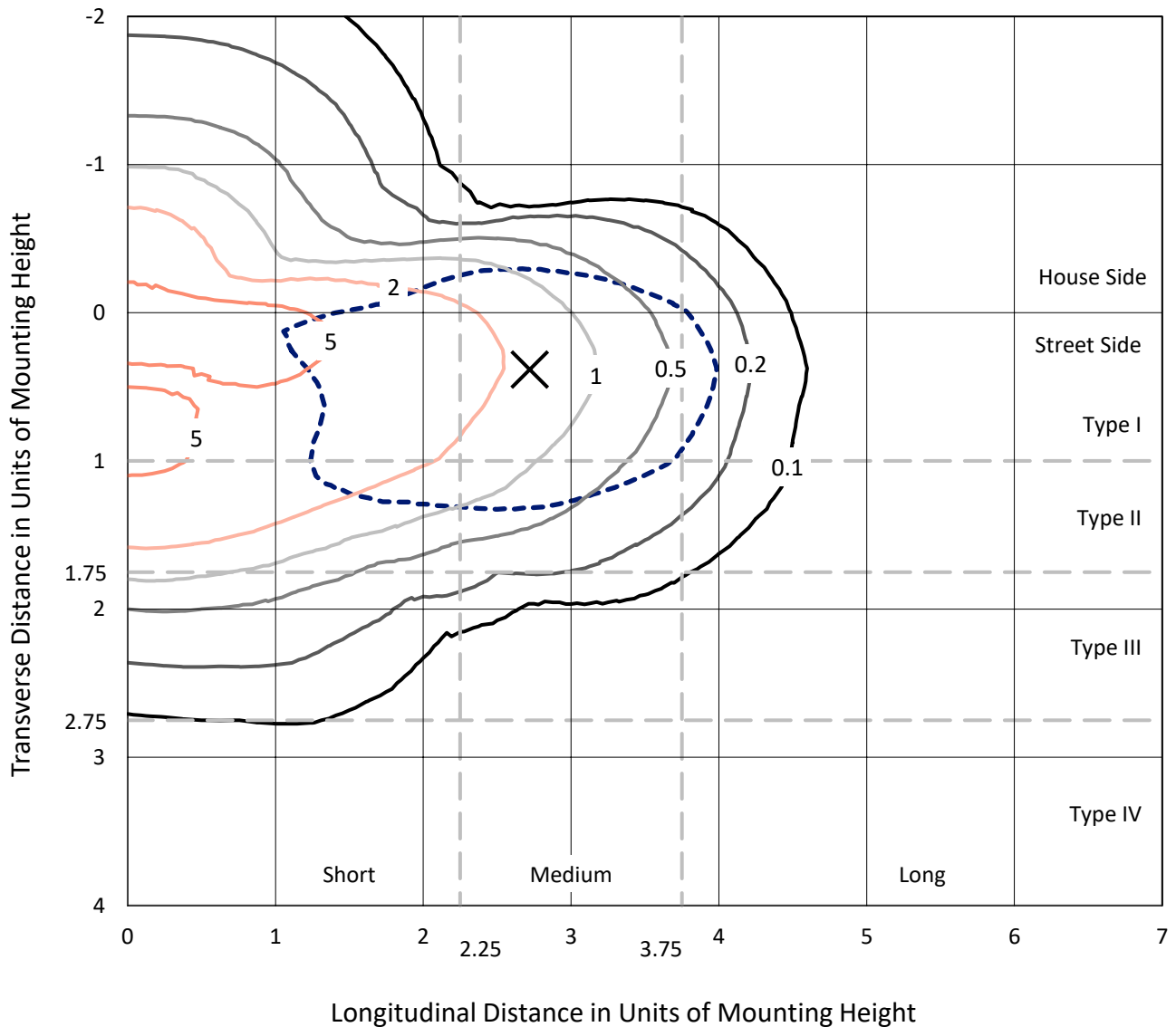
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

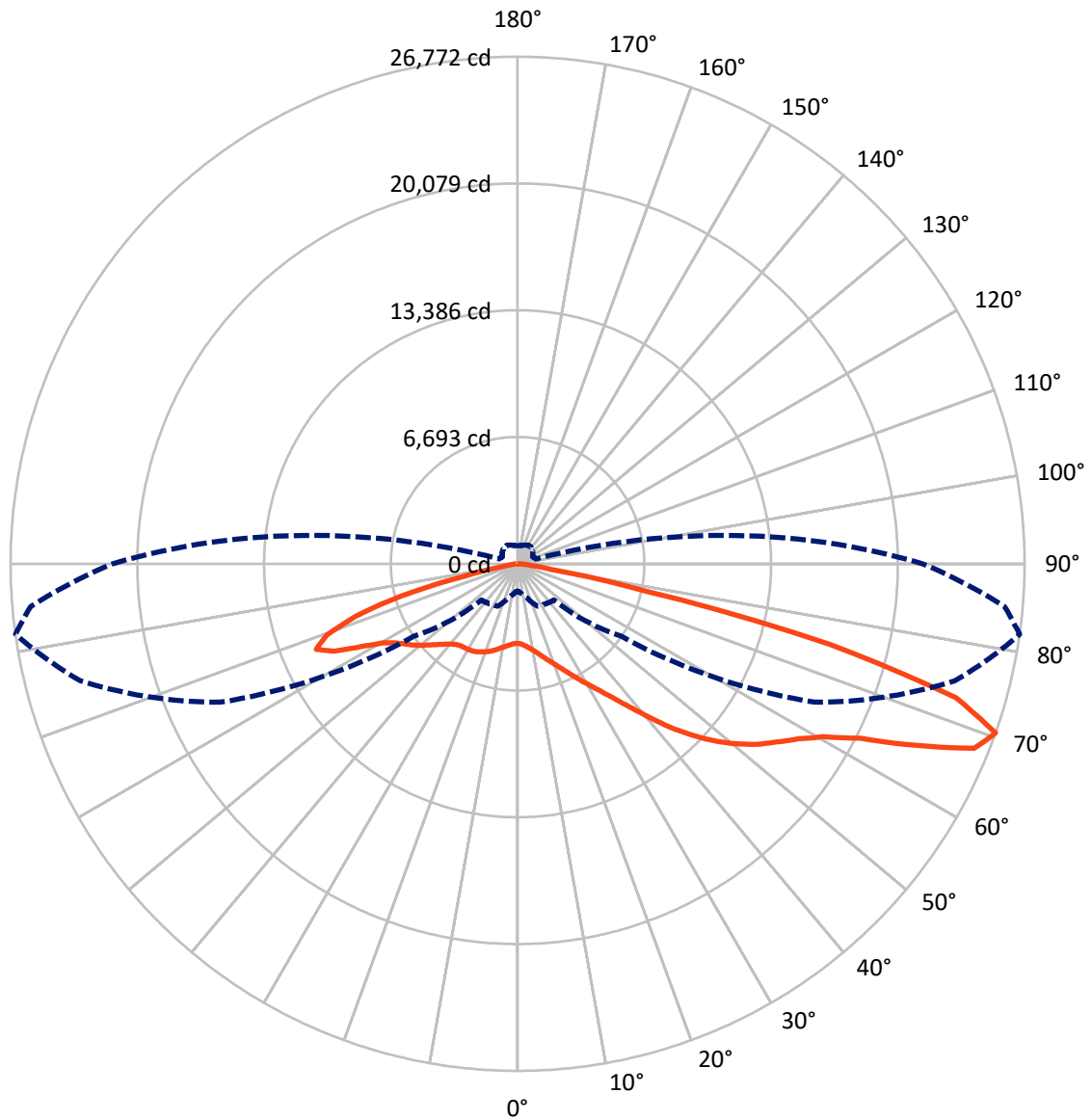
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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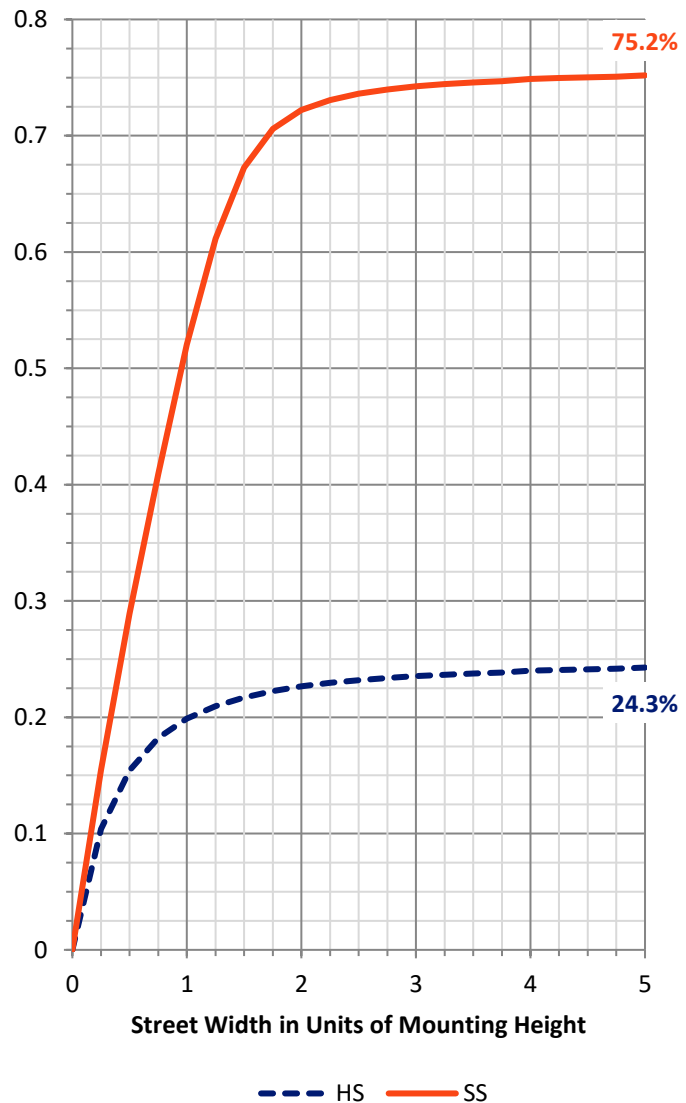
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7062.6	0.0	7062.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21586.1	0.0	21586.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	28648.7	0.0	28648.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.6	1.4
10°-20°	1139.4	4.0
20°-30°	1906.1	6.7
30°-40°	2977.8	10.4
40°-50°	4742.5	16.6
50°-60°	6599.8	23.0
60°-70°	6903.7	24.1
70°-80°	3608.2	12.6
80°-90°	374.7	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°	28648.7	100.0
0°-180°	28648.7	100.0

Coefficient of Utilization

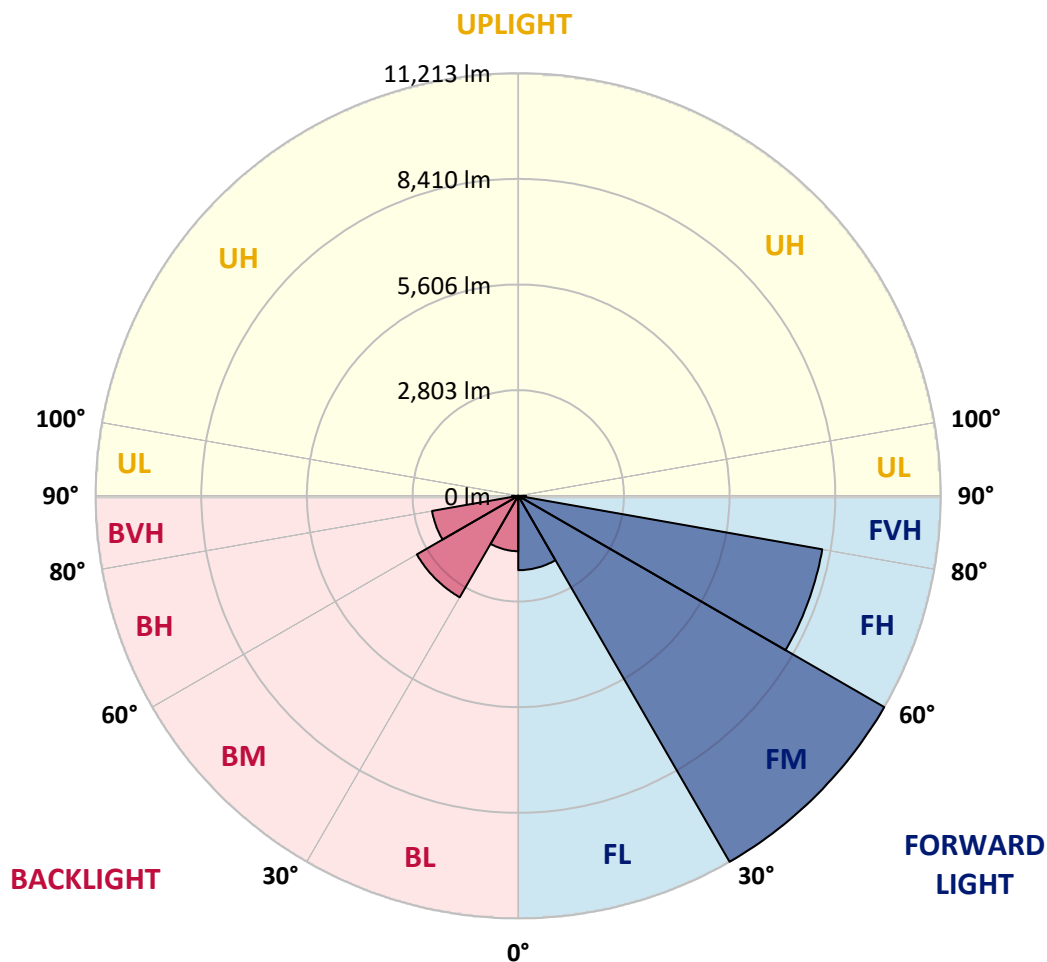


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1972.8	6.9			
FM (30°-60°)	11212.8	39.1			
FH (60°-80°)	8190.8	28.6			G4/12000
FVH (80°-90°)	209.7	0.7			G2/225
BL (0°-30°)	1469.3	5.1	B3/2500		
BM (30°-60°)	3107.3	10.8	B3/5000		
BH (60°-80°)	2321.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	164.9	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2
2.5°	4300.6	4324.9	4317.3	4309.7	4309.7	4299.1	4297.5	4282.3	4270.2	4250.5	4245.9
5°	4355.3	4381.2	4378.1	4384.2	4404.0	4408.5	4413.1	4404.0	4379.6	4355.3	4344.7
7.5°	4306.6	4335.5	4344.7	4381.2	4441.9	4496.7	4537.8	4554.5	4531.6	4496.7	4480.0
10°	4142.5	4174.4	4206.4	4293.0	4400.9	4530.2	4639.6	4705.0	4700.4	4666.9	4638.1
12.5°	3809.6	3843.0	3911.4	4080.2	4277.8	4505.8	4709.6	4846.3	4893.5	4869.2	4818.9
15°	3543.5	3572.4	3624.1	3797.4	4054.3	4400.9	4735.4	5001.4	5121.5	5107.8	5047.0
17.5°	3535.9	3548.1	3580.0	3662.1	3859.7	4236.7	4708.0	5153.4	5383.0	5381.5	5305.4
20°	3669.7	3674.3	3692.6	3709.3	3821.7	4112.1	4638.1	5279.6	5676.3	5676.3	5594.2
22.5°	3855.2	3852.2	3870.4	3855.2	3909.9	4101.4	4593.9	5390.6	6003.2	6027.5	5924.2
25°	4133.4	4118.1	4113.6	4078.7	4089.3	4200.2	4642.6	5516.8	6390.9	6441.0	6311.8
27.5°	4504.3	4480.0	4463.3	4382.7	4355.3	4404.0	4791.6	5668.8	6822.6	6909.2	6745.0
30°	4987.8	4943.7	4919.3	4779.5	4680.7	4688.2	5016.6	5871.0	7274.1	7413.9	7205.6
32.5°	5647.4	5579.1	5513.7	5284.2	5103.3	5043.9	5306.9	6150.6	7763.6	7987.0	7719.5
35°	6386.3	6331.5	6261.6	5907.4	5629.2	5492.5	5699.2	6541.3	8336.6	8690.9	8342.8
37.5°	7097.7	7050.6	7084.1	6606.7	6248.0	6048.8	6213.0	7065.8	9043.6	9566.5	9124.1
40°	7833.5	7797.0	7801.6	7345.6	6927.5	6704.0	6836.2	7724.1	9853.8	10607.8	10063.7
42.5°	8633.2	8605.8	8514.6	8110.2	7640.5	7432.2	7553.7	8484.1	10723.3	11793.5	11094.3
45°	9528.5	9511.8	9426.6	8963.0	8424.9	8190.8	8354.9	9323.3	11597.5	12909.4	12129.5
47.5°	10302.3	10316.0	10305.3	9914.6	9356.7	9013.1	9209.3	10199.0	12410.8	13958.3	13122.3
50°	10674.8	10746.2	10851.1	10729.5	10382.8	10033.2	10071.2	11044.2	13186.1	14941.8	14073.9
52.5°	10480.1	10615.4	10901.2	11095.8	11229.6	11156.6	11054.7	11883.2	13915.7	15829.7	14973.8
55°	9755.0	9945.1	10419.3	10889.1	11571.6	12102.2	12235.9	12813.6	14627.2	16611.0	15825.1
57.5°	8434.0	8742.5	9168.2	10118.3	11267.6	12559.7	13613.2	14104.2	15381.3	17445.6	16715.9
60°	6168.9	6582.3	7111.4	8525.2	10203.5	12315.0	14785.3	16086.6	16452.9	18526.5	17875.8
62.5°	3947.9	4203.3	4689.8	6021.5	7950.5	11060.9	15144.1	18564.5	18269.6	20299.0	19614.9
65°	2702.9	2867.0	3312.5	4060.4	5139.8	8233.3	14183.3	20422.1	21154.9	23108.3	22588.4
67.5°	1964.1	2088.7	2468.8	3124.0	3349.0	4872.2	11006.1	20337.0	23959.6	26002.7	25194.0
70°	1432.0	1520.2	1839.5	2468.8	2576.7	2710.5	6667.5	17287.5	23898.8	26772.0	25803.6
72.5°	1061.1	1121.9	1336.2	1915.4	2085.7	1830.3	3300.3	12564.3	20536.2	24215.0	23438.2
75°	767.7	813.3	971.4	1465.4	1669.1	1394.0	1646.4	7342.5	14324.7	17033.7	17170.5
77.5°	586.8	621.8	725.1	1073.3	1336.2	1045.9	1021.5	3377.9	6792.2	6825.6	7208.7
80°	471.3	494.0	550.3	755.5	1024.6	782.9	665.8	1363.6	2146.5	1816.6	1906.3
82.5°	346.6	384.6	465.1	530.5	732.8	539.7	405.9	688.6	816.3	702.3	708.4
85°	197.6	223.4	281.3	380.1	468.2	329.8	232.6	305.6	380.1	311.6	278.2
87.5°	69.9	91.2	98.8	148.9	203.7	136.8	89.7	88.1	124.6	92.8	77.5
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°	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2	4200.2
2.5°	4230.7	4223.1	4192.7	4151.7	4109.0	4068.0	4054.3	4025.5	4005.7	3995.0	4007.2
5°	4315.8	4291.5	4220.0	4128.8	4033.1	3929.6	3856.7	3789.8	3741.1	3695.5	3713.8
7.5°	4437.4	4394.9	4271.7	4112.1	3941.8	3770.1	3642.3	3545.1	3479.7	3437.1	3446.3
10°	4578.8	4513.4	4324.9	4086.3	3823.2	3576.9	3426.5	3342.8	3301.8	3279.1	3285.1
12.5°	4741.4	4648.7	4379.6	4026.9	3642.3	3361.1	3257.8	3233.5	3234.9	3236.4	3239.5
15°	4942.1	4812.9	4423.7	3897.8	3406.7	3195.4	3177.2	3216.8	3257.8	3277.5	3276.0
17.5°	5168.7	4986.2	4431.4	3684.9	3175.7	3089.0	3146.7	3231.9	3294.2	3321.6	3327.7
20°	5411.9	5162.5	4376.6	3383.9	2985.6	3002.3	3105.7	3215.2	3283.6	3318.5	3327.7
22.5°	5690.1	5351.0	4245.9	3067.7	2830.5	2908.1	3029.7	3136.1	3207.6	3242.6	3251.7
25°	6007.7	5562.4	4040.7	2801.7	2696.8	2801.7	2923.3	3011.4	3069.3	3101.1	3110.3
27.5°	6360.4	5782.7	3767.0	2590.4	2579.7	2692.3	2792.6	2861.0	2891.4	2915.7	2924.8
30°	6714.7	5983.4	3435.6	2430.8	2477.9	2584.3	2655.8	2686.1	2695.2	2699.8	2710.5
32.5°	7097.7	6156.8	3087.5	2298.6	2380.6	2479.4	2522.0	2535.6	2493.1	2464.2	2473.3
35°	7561.4	6342.2	2747.0	2193.6	2284.8	2370.0	2383.6	2371.4	2321.3	2262.1	2265.0
37.5°	8134.5	6573.2	2474.9	2119.1	2195.1	2251.4	2234.7	2231.6	2236.1	2166.2	2170.8
40°	8836.8	6874.3	2275.7	2061.4	2122.2	2134.4	2087.2	2113.0	2135.9	2029.4	2032.5
42.5°	9616.7	7237.6	2149.5	2021.8	2061.4	2032.5	1959.5	1988.4	1985.3	1845.5	1844.0
45°	10411.7	7632.9	2105.5	1993.0	2005.1	1947.4	1866.8	1874.4	1810.6	1684.4	1688.9
47.5°	11202.2	8057.0	2132.8	1968.6	1935.2	1869.8	1807.5	1774.1	1679.8	1585.6	1585.6
50°	11977.5	8502.4	2233.2	1920.0	1839.5	1801.4	1755.8	1696.5	1596.2	1515.7	1509.5
52.5°	12696.6	8950.8	2345.6	1839.5	1719.3	1742.1	1713.3	1644.8	1546.0	1463.9	1465.4
55°	13377.6	9399.2	2389.7	1728.5	1606.8	1690.4	1673.7	1547.5	1429.0	1362.1	1356.0
57.5°	14119.5	9938.9	2341.1	1587.1	1515.7	1631.2	1567.3	1427.4	1359.0	1308.9	1304.3
60°	15147.1	10785.7	2236.1	1412.2	1429.0	1543.0	1433.6	1375.8	1301.2	1245.1	1242.0
62.5°	16854.3	12365.2	2067.4	1238.9	1327.2	1412.2	1369.7	1311.9	1235.9	1181.2	1181.2
65°	19377.7	14560.3	1749.8	1103.6	1213.1	1284.5	1301.2	1243.5	1164.5	1106.7	1109.8
67.5°	21506.0	15937.6	1324.1	991.2	1096.0	1181.2	1228.3	1172.1	1088.4	1032.2	1033.7
70°	21389.0	14937.3	1011.0	880.2	992.7	1079.3	1140.1	1096.0	1006.3	953.1	957.8
72.5°	18997.8	12495.9	817.8	767.7	887.8	972.9	1045.9	1012.4	921.3	869.5	869.5
75°	13956.8	8870.2	653.6	653.6	757.1	861.9	942.5	921.3	837.6	801.1	790.5
77.5°	5883.1	3721.4	512.3	542.7	629.3	740.4	840.7	848.3	775.3	820.9	744.9
80°	1564.3	1026.1	390.7	427.2	494.0	611.1	731.2	728.2	649.1	606.6	564.0
82.5°	595.9	404.4	278.2	301.0	357.2	468.2	579.2	597.5	518.3	448.4	448.4
85°	229.5	173.3	171.8	180.9	208.3	310.2	437.8	453.0	390.7	331.4	342.0
87.5°	59.2	51.7	63.9	60.8	95.7	165.7	250.8	259.9	238.6	138.4	197.6
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)