

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: P965515

Luminaire Tested: **NAV-SB4A-722-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4A-722-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15481.6 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

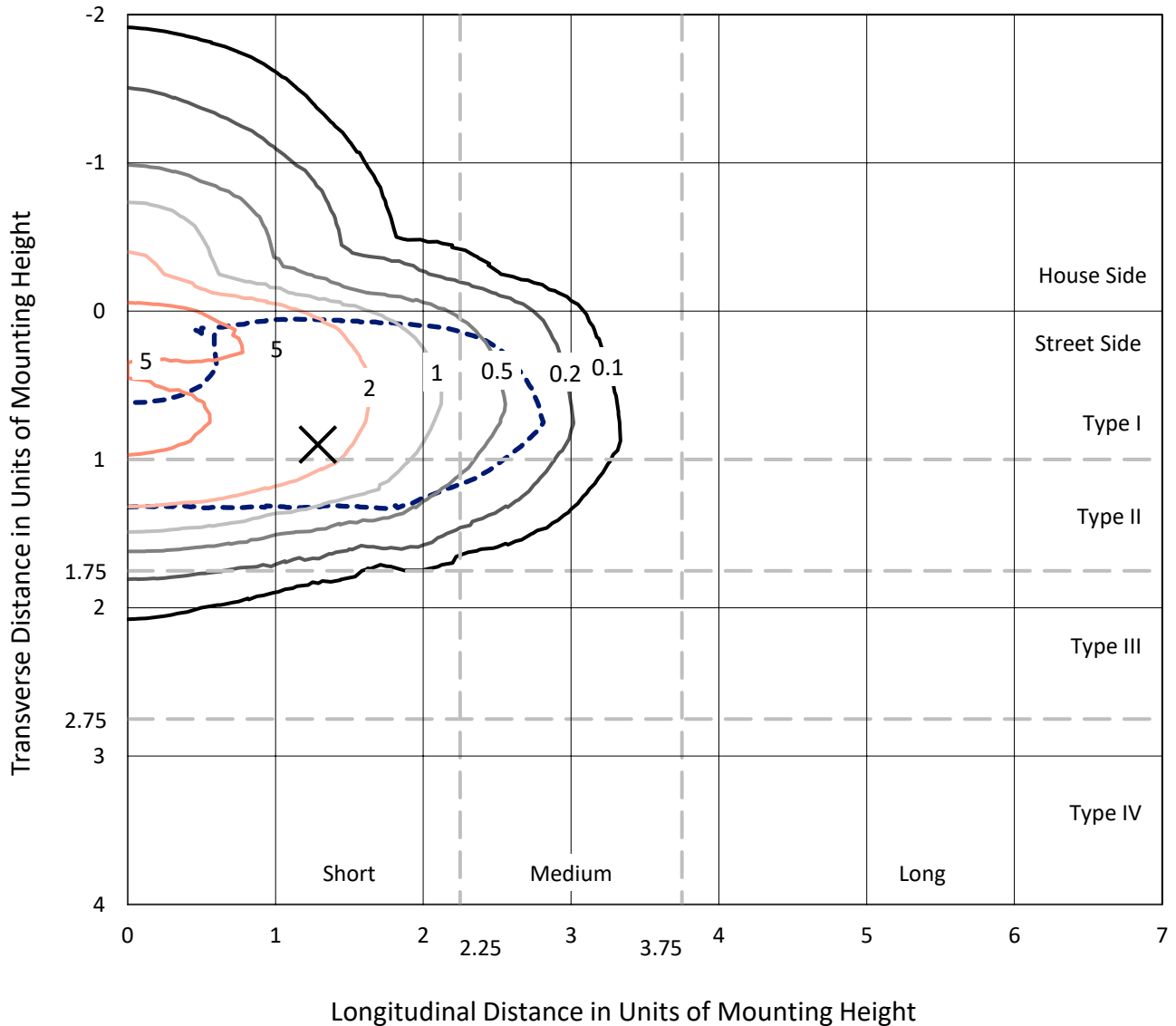
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

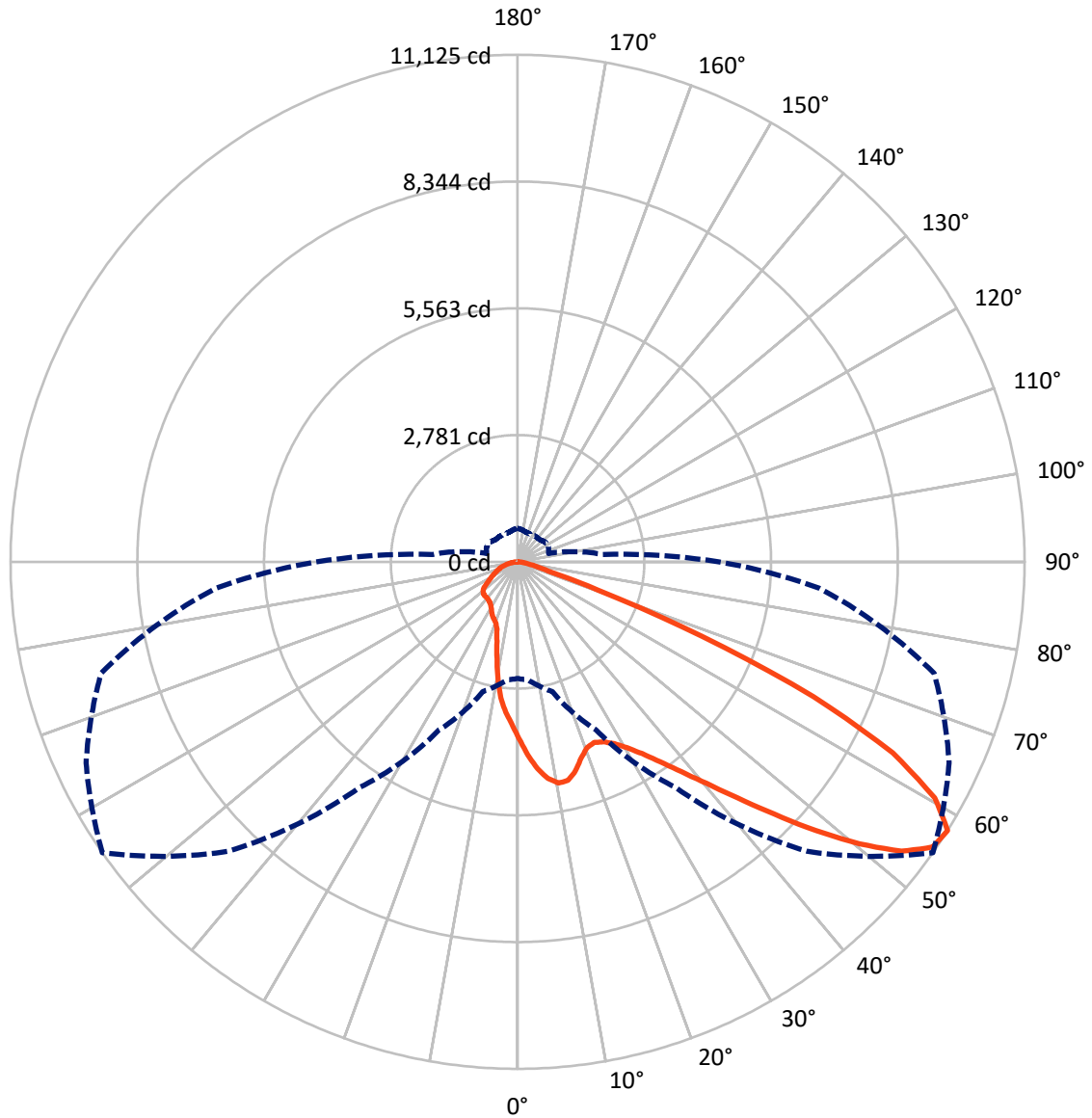
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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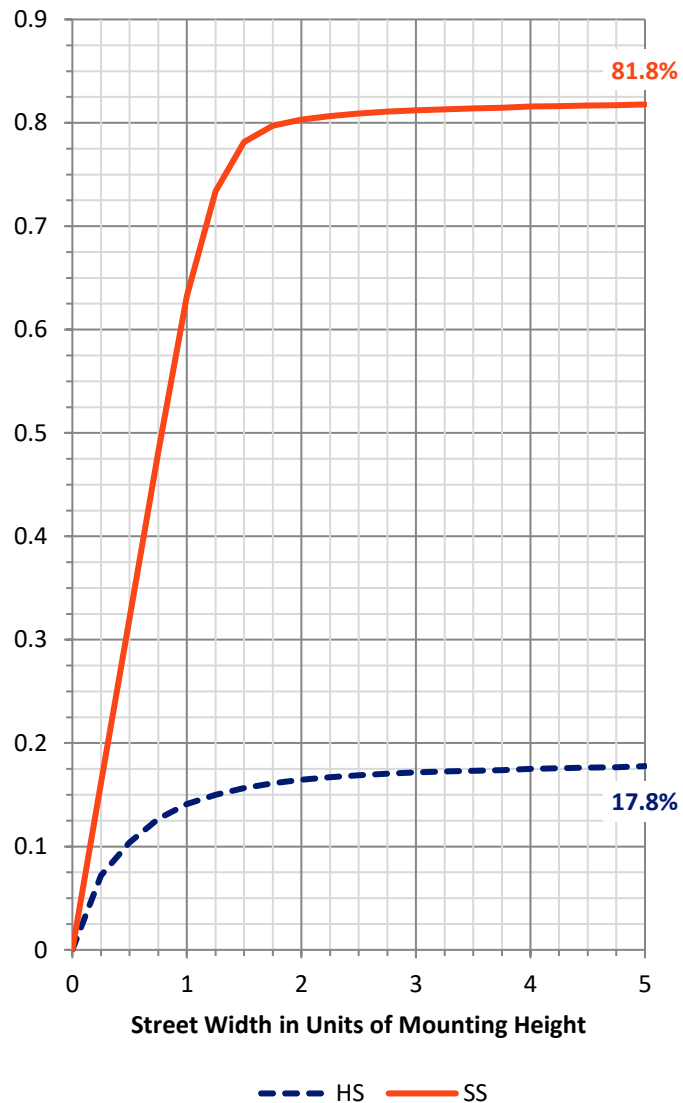
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2801.3	0.0	2801.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12680.3	0.0	12680.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	15481.6	0.0	15481.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.0	2.3
10°-20°	908.6	5.9
20°-30°	1449.8	9.4
30°-40°	2295.4	14.8
40°-50°	3513.4	22.7
50°-60°	3763.2	24.3
60°-70°	2367.4	15.3
70°-80°	700.1	4.5
80°-90°	123.8	0.8
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°	15481.6	100.0
0°-180°	15481.6	100.0

**Coefficient of Utilization**

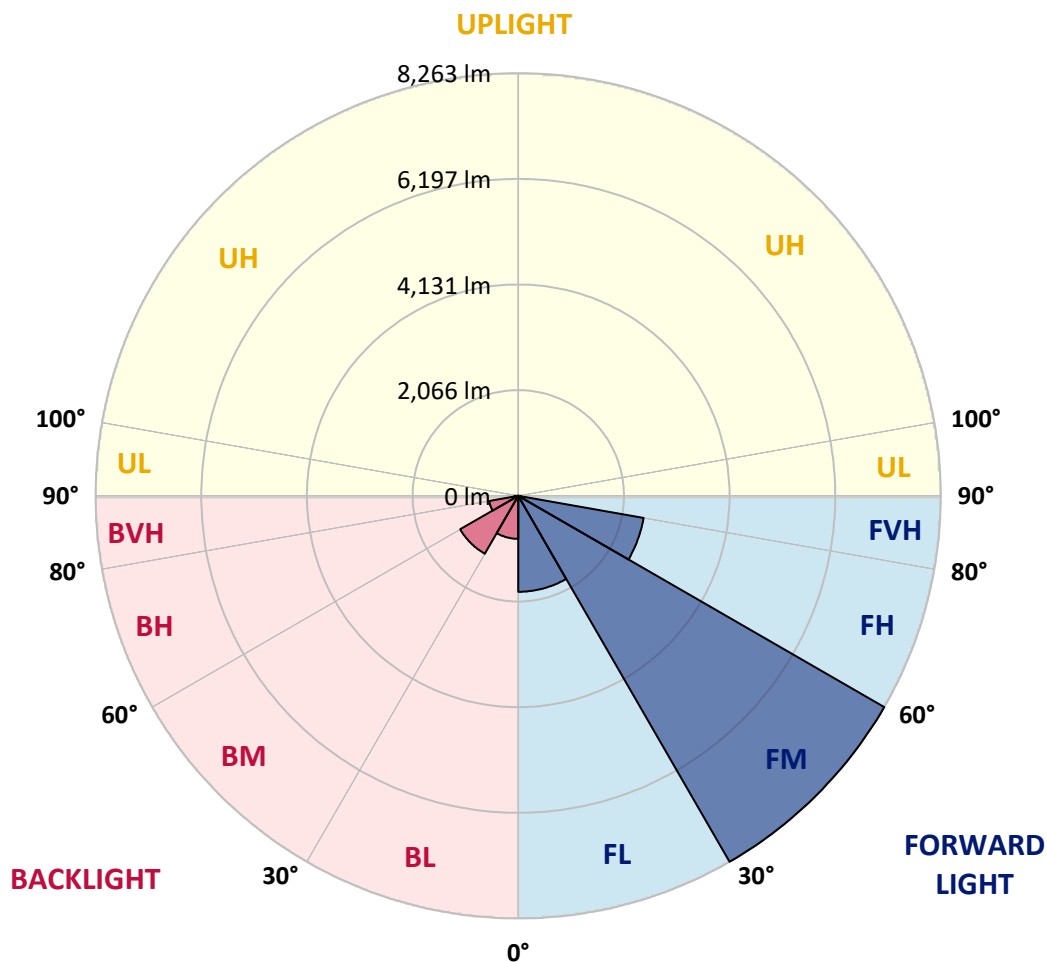


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.4	12.1			
FM (30°-60°)	8262.6	53.4			
FH (60°-80°)	2489.0	16.1			G2/5000
FVH (80°-90°)	52.3	0.3			G1/100
BL (0°-30°)	842.0	5.4	B2/1000		
BM (30°-60°)	1309.3	8.5	B2/2500		
BH (60°-80°)	578.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	71.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2
2.5°	4450.7	4447.4	4465.0	4405.0	4364.1	4309.0	4236.1	4143.3	4043.2	3937.6	3892.0
5°	4851.6	4823.5	4842.0	4797.2	4752.3	4669.1	4561.0	4409.8	4224.9	4014.4	3902.4
7.5°	4788.4	4769.1	4816.4	4856.3	4890.0	4879.6	4800.4	4641.9	4403.4	4097.6	3935.2
10°	4278.6	4256.9	4323.3	4461.8	4665.1	4842.0	4938.0	4839.5	4585.8	4188.9	3967.3
12.5°	3828.8	3818.3	3862.4	3974.4	4200.1	4539.4	4920.4	5012.5	4775.6	4297.0	4010.4
15°	3636.7	3623.9	3651.9	3708.8	3852.8	4168.9	4760.3	5130.9	4962.0	4421.8	4079.3
17.5°	3594.3	3579.9	3591.9	3621.5	3714.3	3955.2	4518.6	5189.4	5156.5	4561.0	4136.9
20°	3672.7	3660.7	3662.3	3660.7	3725.6	3916.8	4350.6	5166.9	5326.2	4689.1	4192.9
22.5°	3862.4	3842.4	3843.1	3800.8	3836.0	3984.1	4306.5	5106.9	5477.4	4801.2	4235.3
25°	4171.3	4135.3	4142.5	4034.4	4024.9	4134.4	4375.4	5060.4	5627.9	4890.8	4243.3
27.5°	4593.8	4553.0	4531.4	4370.6	4293.7	4348.2	4515.4	5076.5	5770.3	4968.5	4223.3
30°	5122.1	5072.5	5028.4	4800.4	4661.1	4641.1	4733.1	5182.1	5938.4	5050.1	4188.9
32.5°	5769.5	5711.9	5631.9	5329.4	5133.3	5028.4	5014.8	5370.2	6135.3	5154.1	4171.3
35°	6540.3	6465.1	6351.4	5960.1	5711.9	5497.5	5386.2	5641.5	6405.0	5310.9	4191.3
37.5°	7334.2	7249.4	7145.3	6679.5	6374.6	6058.5	5839.2	6009.7	6764.4	5523.8	4244.1
40°	8066.5	7971.2	7874.5	7459.8	7132.6	6751.6	6393.8	6475.4	7203.7	5778.3	4333.8
42.5°	8498.7	8428.3	8391.5	8167.3	7914.4	7527.9	7083.7	7027.7	7697.5	6071.3	4436.2
45°	8479.5	8450.6	8564.3	8657.2	8597.1	8382.7	7892.0	7638.3	8192.9	6325.0	4530.6
47.5°	8026.5	8045.7	8299.4	8821.3	9050.9	9163.0	8812.4	8237.7	8623.5	6514.7	4573.0
50°	6794.0	6810.0	7397.4	8522.7	9167.7	9799.2	9725.6	8822.8	8957.3	6630.7	4563.5
52.5°	5818.4	5828.8	6080.9	7637.5	8782.0	10119.3	10548.3	9374.2	9201.3	6662.7	4509.8
55°	4382.6	4418.6	4701.2	5992.0	7778.4	9865.6	11049.3	9942.5	9355.8	6665.9	4453.8
57.5°	2560.2	2599.5	2948.4	4067.3	6045.7	8981.3	11125.3	10446.7	9460.6	6640.4	4420.2
60°	1254.1	1270.9	1423.0	2137.6	3727.9	7277.4	10513.9	10690.7	9519.1	6626.7	4418.6
62.5°	845.1	842.8	849.1	1054.8	1836.8	4675.5	9239.8	10263.4	9487.9	6574.7	4402.6
65°	726.7	717.9	693.9	740.3	951.6	2138.5	7138.9	8987.7	9250.2	6444.3	4292.9
67.5°	628.2	629.0	629.9	615.4	679.5	986.8	4362.6	7079.7	8397.0	5826.4	3870.4
70°	520.2	527.5	530.6	530.6	553.8	647.5	1862.3	4852.3	6623.6	4568.2	3117.2
72.5°	473.8	458.6	460.2	452.2	452.2	493.0	749.9	2750.7	4172.9	2569.9	1902.4
75°	386.5	396.2	397.8	392.2	373.7	376.2	445.0	1154.0	1785.6	1066.0	940.3
77.5°	333.7	333.7	336.9	332.9	318.6	281.7	296.9	447.4	607.4	437.0	469.8
80°	268.1	267.3	281.0	288.9	266.5	208.1	189.7	247.3	269.7	192.1	244.1
82.5°	130.5	138.5	192.9	220.1	202.4	150.5	116.0	153.6	144.0	84.9	109.7
85°	76.1	72.1	86.4	122.5	116.0	83.2	56.1	80.1	75.2	43.3	44.0
87.5°	24.0	22.4	17.6	41.6	33.6	23.2	15.2	23.2	20.8	9.6	9.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2	3879.2
2.5°	3835.1	3740.7	3647.1	3561.5	3509.4	3475.8	3442.3	3404.6	3390.2	3368.6
5°	3796.7	3614.3	3451.8	3311.8	3184.5	3084.4	2983.6	2902.0	2865.2	2890.0
7.5°	3774.4	3510.2	3259.7	3002.8	2755.5	2557.9	2385.8	2264.9	2210.5	2224.1
10°	3754.4	3392.5	3010.8	2605.0	2249.7	2004.8	1828.7	1736.8	1702.3	1709.5
12.5°	3735.9	3260.5	2710.7	2176.9	1799.2	1637.4	1587.0	1587.8	1594.3	1599.1
15°	3732.7	3101.2	2375.3	1802.4	1555.8	1545.4	1599.8	1634.3	1652.7	1658.2
17.5°	3727.9	2910.8	2033.6	1547.0	1496.6	1567.0	1617.4	1639.9	1654.2	1655.1
20°	3708.8	2669.1	1718.3	1425.4	1483.8	1544.7	1575.8	1593.5	1605.5	1609.5
22.5°	3649.5	2400.1	1472.6	1370.9	1432.5	1481.4	1518.2	1538.2	1545.4	1550.2
25°	3543.0	2099.3	1303.0	1319.0	1361.4	1423.0	1452.6	1456.6	1454.2	1461.4
27.5°	3403.8	1776.7	1197.3	1248.6	1303.0	1355.8	1371.8	1369.4	1364.6	1372.6
30°	3235.7	1487.0	1130.1	1169.3	1243.7	1291.7	1306.2	1300.5	1290.9	1299.7
32.5°	3058.1	1250.1	1074.8	1114.1	1194.8	1242.1	1256.5	1250.9	1243.7	1250.9
35°	2892.3	1084.4	1023.7	1077.3	1156.5	1202.9	1221.3	1222.1	1222.1	1230.9
37.5°	2740.3	987.6	981.2	1054.0	1130.1	1171.7	1198.1	1199.7	1165.3	1167.7
40°	2599.5	946.8	962.0	1038.8	1104.4	1144.5	1146.1	1056.5	993.2	991.6
42.5°	2484.2	938.8	967.6	1037.2	1086.1	1087.6	974.8	905.2	887.5	888.4
45°	2376.2	936.3	980.4	1037.2	1058.8	939.6	863.6	845.1	846.8	853.1
47.5°	2255.3	926.8	982.8	1022.8	980.4	835.6	813.1	805.1	802.0	803.5
50°	2123.3	892.4	952.4	994.0	845.9	790.7	762.7	760.3	764.3	766.7
52.5°	1984.0	836.3	900.4	942.0	784.3	751.5	720.3	725.9	743.5	749.1
55°	1892.8	770.7	831.6	837.9	741.1	714.7	688.3	701.1	733.9	744.4
57.5°	1868.8	701.1	753.1	745.9	685.9	682.6	666.7	677.8	719.4	734.7
60°	1861.6	638.7	676.3	670.7	632.2	647.5	643.5	649.0	663.5	668.3
62.5°	1805.5	589.1	607.4	599.4	584.2	610.7	620.2	608.2	619.4	625.0
65°	1663.1	549.0	540.2	534.6	541.0	565.0	584.2	560.3	570.6	586.6
67.5°	1427.8	494.6	470.6	477.0	497.0	509.8	534.6	507.4	516.2	543.5
70°	1154.9	425.8	404.2	422.6	441.8	468.2	472.2	453.8	474.6	505.0
72.5°	817.1	356.2	340.9	378.5	385.0	419.3	410.6	401.8	430.6	441.0
75°	566.6	287.3	278.5	307.3	330.6	360.2	353.7	364.2	425.0	429.8
77.5°	358.5	223.2	217.7	236.1	268.1	300.9	311.3	429.8	725.9	754.7
80°	208.1	166.5	160.1	174.5	202.4	232.9	300.1	527.5	478.6	473.0
82.5°	116.0	114.5	106.4	110.5	135.3	168.1	424.1	371.4	301.8	311.3
85°	54.4	67.2	57.6	55.2	76.1	196.9	283.3	212.1	140.8	137.7
87.5°	14.5	12.8	12.8	14.5	32.0	169.6	112.9	90.4	53.6	52.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)