

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: P885119

Luminaire Tested: **NAV-SB6B-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33667 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

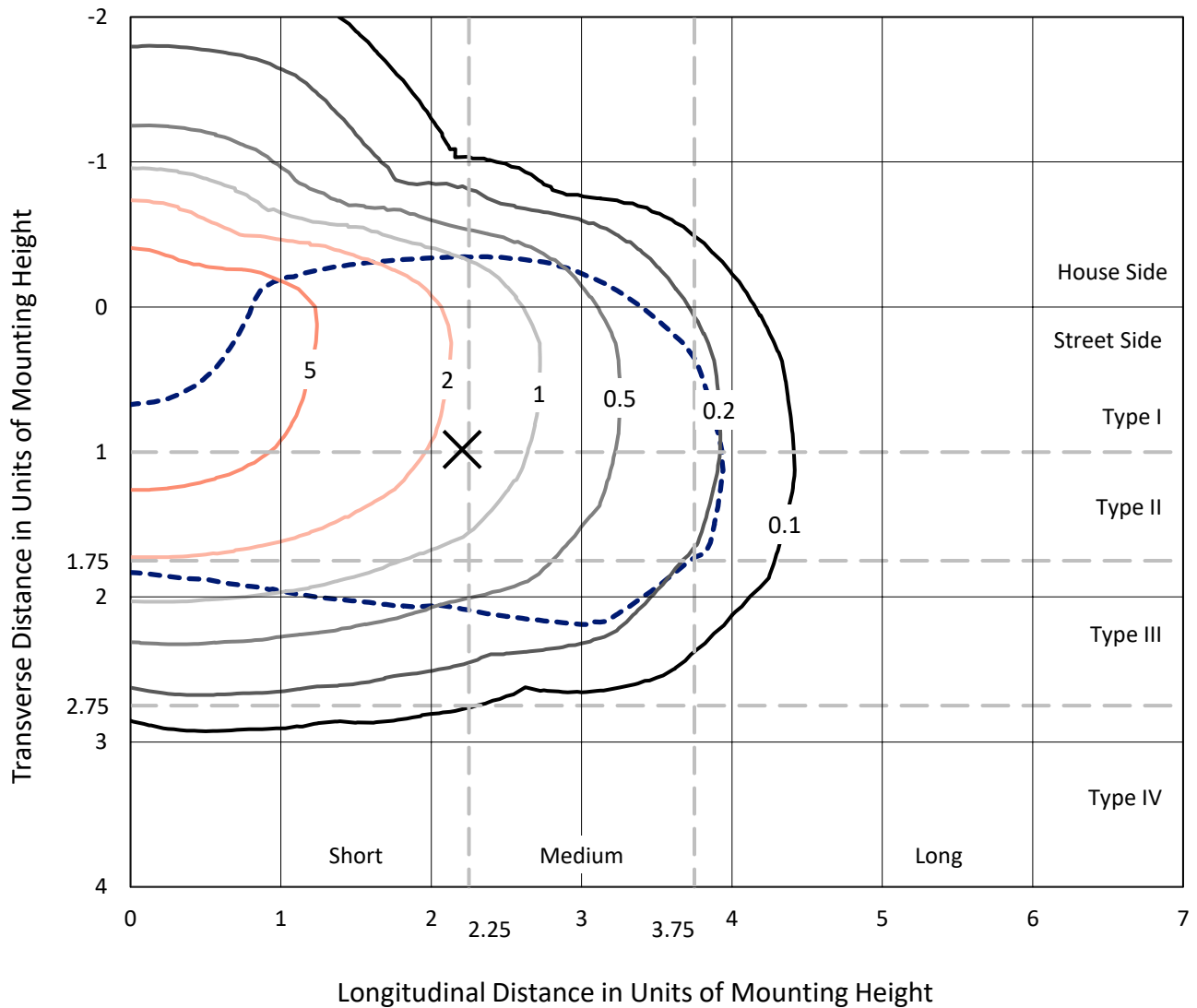
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

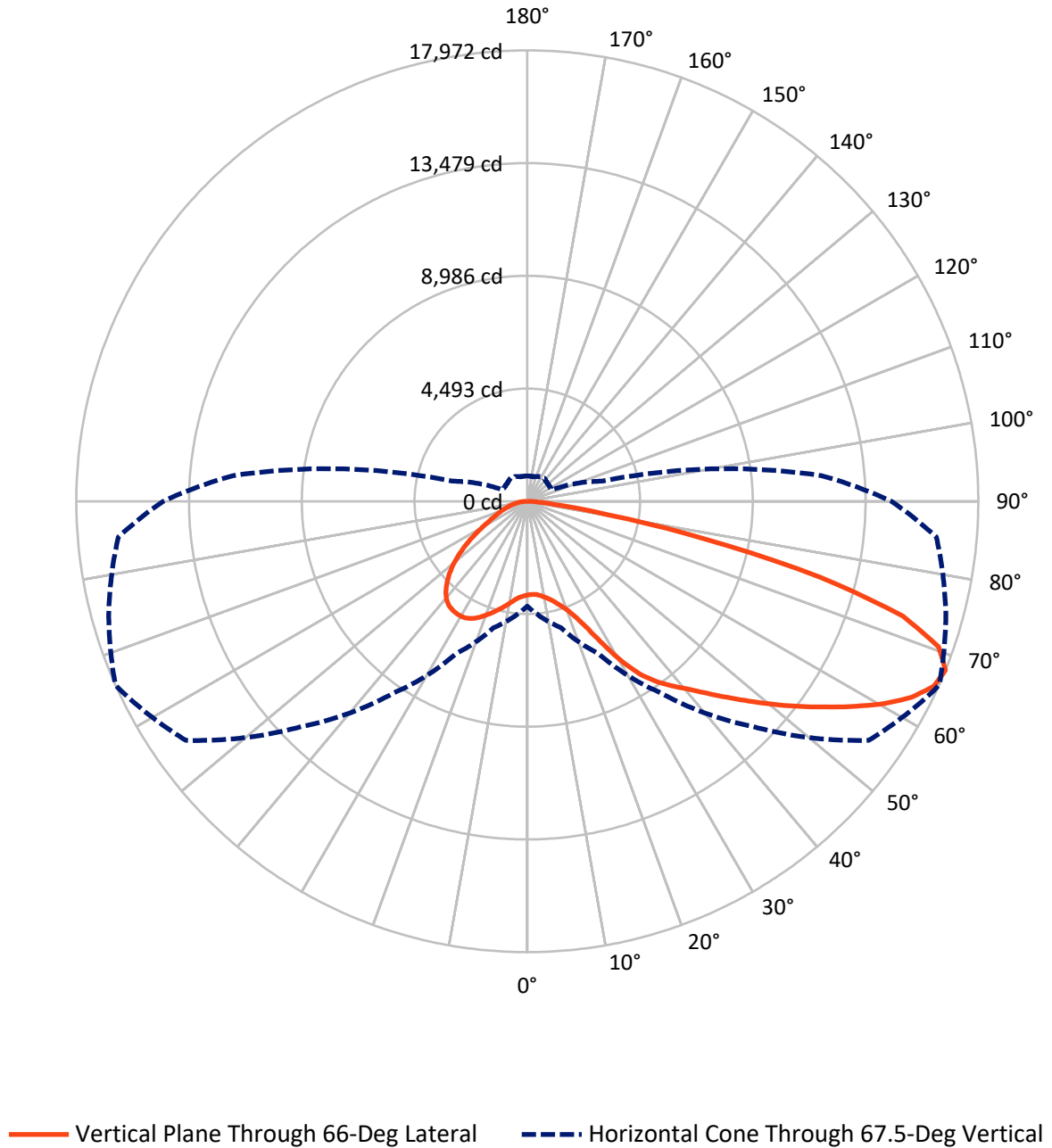
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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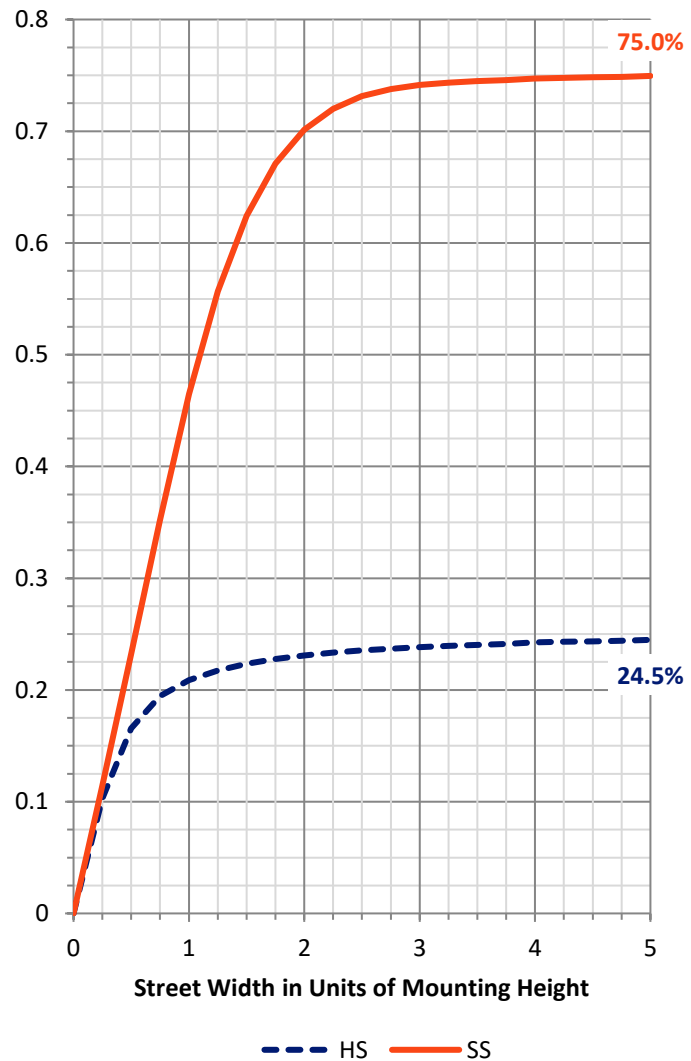
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8371.2	0.0	8371.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	25295.8	0.0	25295.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	33667.0	0.0	33667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	1.1
10°-20°	1223.2	3.6
20°-30°	2357.6	7.0
30°-40°	4133.7	12.3
40°-50°	6145.5	18.3
50°-60°	7790.0	23.1
60°-70°	7622.3	22.6
70°-80°	3635.9	10.8
80°-90°	388.6	1.2
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°	33667.0	100.0
0°-180°	33667.0	100.0

Coefficient of Utilization



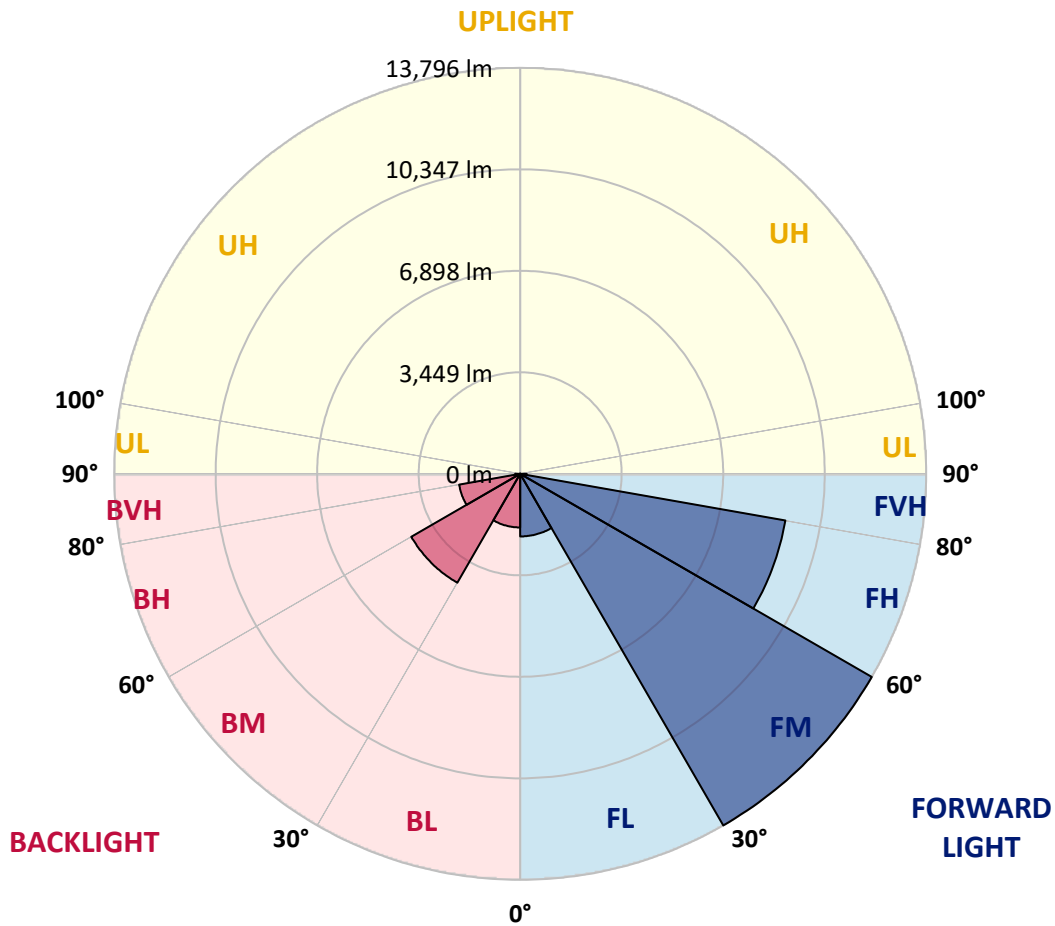
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2127.4	6.3			
FM (30°-60°)	13796.4	41.0			
FH (60°-80°)	9151.6	27.2			G4/12000
FVH (80°-90°)	220.3	0.7			G2/225
BL (0°-30°)	1823.6	5.4	B3/2500		
BM (30°-60°)	4272.8	12.7	B3/5000		
BH (60°-80°)	2106.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	168.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1
2.5°	3695.2	3716.4	3711.1	3702.3	3700.5	3704.0	3709.4	3714.7	3712.9	3721.7	3735.9
5°	3684.6	3705.8	3704.0	3704.0	3711.1	3725.3	3734.1	3743.0	3734.1	3744.7	3764.2
7.5°	3691.7	3707.6	3714.7	3721.7	3739.4	3766.0	3787.2	3806.6	3796.0	3808.4	3833.2
10°	3781.9	3794.3	3801.3	3801.3	3813.7	3843.8	3865.0	3900.4	3891.5	3911.0	3942.8
12.5°	3946.4	3958.8	3958.8	3951.7	3960.5	3980.0	3987.1	4026.0	4010.1	4041.9	4073.7
15°	4148.0	4172.8	4153.3	4141.0	4144.5	4164.0	4162.2	4192.3	4176.3	4202.9	4231.2
17.5°	4370.9	4402.8	4370.9	4369.1	4362.1	4383.3	4385.1	4411.6	4383.3	4402.8	4422.2
20°	4634.5	4678.7	4652.2	4661.0	4645.1	4653.9	4662.8	4701.7	4657.5	4671.6	4666.3
22.5°	5005.9	5059.0	5030.7	5064.3	5053.7	5046.6	5044.9	5113.8	5044.9	5050.2	4998.9
25°	5547.2	5610.9	5561.4	5607.4	5607.4	5630.4	5656.9	5745.3	5630.4	5596.8	5464.1
27.5°	6346.8	6410.4	6313.1	6341.5	6332.6	6389.2	6360.9	6580.3	6456.4	6401.6	6134.5
30°	7309.0	7422.2	7238.3	7231.2	7222.4	7312.6	7353.3	7498.3	7372.7	7317.9	6995.9
32.5°	8349.1	8467.7	8248.3	8184.6	8151.0	8205.9	8172.2	8289.0	8202.3	8117.4	7719.4
35°	9449.4	9566.1	9357.4	9233.6	9099.1	8984.2	8863.9	8894.0	8812.6	8683.5	8271.3
37.5°	10489.5	10703.5	10482.4	10349.7	10102.1	9877.5	9541.4	9401.6	9325.6	9207.0	8791.4
40°	11549.0	11671.1	11503.1	11389.8	11121.0	10769.0	10231.2	9935.8	9833.2	9718.3	9366.2
42.5°	12329.1	12445.9	12355.7	12277.8	12067.3	11658.7	10963.5	10593.8	10445.3	10316.1	10017.2
45°	12948.2	13034.9	12978.3	13006.6	12916.4	12520.2	11722.4	11299.6	11145.7	10988.3	10753.0
47.5°	13197.6	13289.6	13379.8	13547.9	13701.8	13409.9	12537.9	12063.8	11901.1	11740.1	11508.4
50°	13169.3	13263.1	13524.9	13882.2	14359.8	14262.5	13397.5	12877.5	12727.1	12543.2	12329.1
52.5°	12942.9	13049.1	13385.1	13979.5	14740.1	14901.1	14273.1	13717.7	13576.2	13356.8	13142.8
55°	12348.6	12412.3	12916.4	13758.4	14830.3	15346.8	15131.0	14612.8	14471.2	14165.2	13931.7
57.5°	11246.6	11338.5	12072.6	13162.3	14603.9	15649.3	15884.6	15553.8	15417.6	14977.1	14733.0
60°	9808.5	9955.3	10795.5	12161.1	14027.3	15647.6	16569.1	16478.9	16365.7	15776.7	15522.0
62.5°	8181.1	8350.9	9159.3	10746.0	13019.0	15203.6	16997.2	17253.7	17195.3	16514.3	16188.8
65°	6283.1	6399.8	7204.7	8915.2	11450.0	14250.1	17046.7	17782.6	17793.2	17075.0	16537.3
67.5°	4183.4	4519.5	5218.2	6689.9	9348.6	12691.7	16611.6	17869.3	17971.9	17267.9	16362.2
70°	2041.3	2483.5	3168.1	4347.9	6689.9	10302.0	15474.2	17158.2	17386.4	16705.3	15318.5
72.5°	847.3	990.6	1363.8	2145.7	3840.2	6951.7	13188.8	15230.1	15652.9	14802.0	12879.2
75°	571.3	619.1	780.1	1100.2	1749.4	3428.1	9511.3	11356.2	12037.3	11179.4	9138.1
77.5°	440.5	470.5	567.8	769.5	1040.1	1296.6	5090.8	6843.8	7195.8	6661.6	4754.8
80°	346.7	369.7	424.5	560.7	737.6	693.4	1735.3	3100.9	3304.3	2771.8	1528.3
82.5°	300.7	309.6	304.2	380.3	490.0	405.1	569.6	1144.5	1263.0	916.3	498.8
85°	217.6	242.3	253.0	235.3	260.0	205.2	233.5	405.1	445.8	398.0	281.3
87.5°	88.4	130.9	161.0	152.1	95.5	58.4	72.5	118.5	136.2	148.6	92.0
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°	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1	3734.1
2.5°	3737.7	3750.0	3758.9	3769.5	3776.6	3787.2	3808.4	3820.8	3822.6	3831.4	3829.6
5°	3771.3	3789.0	3808.4	3836.7	3868.6	3895.1	3935.8	3964.1	3974.7	3983.5	3981.8
7.5°	3843.8	3868.6	3903.9	3953.5	3999.4	4034.8	4084.4	4118.0	4151.6	4164.0	4165.7
10°	3951.7	3987.1	4038.4	4105.6	4155.1	4201.1	4252.4	4280.7	4314.3	4328.5	4335.5
12.5°	4086.1	4123.3	4190.5	4284.2	4330.2	4362.1	4379.8	4372.7	4379.8	4392.1	4395.7
15°	4240.0	4280.7	4356.8	4457.6	4489.4	4461.1	4422.2	4386.8	4381.5	4385.1	4397.4
17.5°	4422.2	4452.3	4540.7	4625.6	4602.6	4485.9	4401.0	4344.4	4316.1	4307.2	4319.6
20°	4676.9	4676.9	4749.5	4802.5	4648.6	4450.5	4317.8	4225.9	4167.5	4142.7	4137.4
22.5°	4986.5	4958.2	5004.2	4967.0	4639.8	4351.5	4167.5	4008.3	3919.8	3884.5	3879.2
25°	5379.2	5345.6	5333.2	5103.2	4576.1	4194.0	3895.1	3702.3	3624.4	3605.0	3608.5
27.5°	5971.8	5886.8	5725.9	5177.5	4459.4	3946.4	3576.7	3398.0	3353.8	3355.6	3360.9
30°	6760.7	6590.9	6196.4	5189.9	4268.3	3596.1	3251.2	3123.9	3102.6	3111.5	3141.5
32.5°	7491.2	7330.3	6677.5	5133.3	3974.7	3253.0	2959.3	2874.4	2842.6	2853.2	2867.4
35°	8064.3	8020.1	7123.3	5053.7	3613.8	2931.0	2697.5	2625.0	2563.1	2549.0	2559.6
37.5°	8605.6	8587.9	7457.6	4942.3	3256.5	2702.9	2487.1	2391.5	2301.3	2251.8	2253.6
40°	9200.0	9182.3	7677.0	4770.7	2939.9	2504.7	2297.8	2172.2	2060.8	1970.5	1979.4
42.5°	9868.6	9764.2	7781.3	4524.8	2671.0	2336.7	2143.9	1974.1	1827.3	1744.1	1749.4
45°	10599.2	10363.9	7779.6	4211.7	2444.6	2182.8	1979.4	1738.8	1602.6	1524.8	1521.2
47.5°	11373.9	10937.0	7684.0	3865.0	2225.3	2013.0	1724.7	1540.7	1450.5	1402.7	1392.1
50°	12173.5	11473.0	7521.3	3467.0	2000.6	1820.2	1565.5	1439.9	1370.9	1326.7	1310.7
52.5°	12925.2	11959.4	7325.0	3015.9	1772.4	1632.7	1494.7	1397.4	1324.9	1275.4	1254.1
55°	13623.9	12378.7	7047.2	2554.3	1586.7	1507.1	1461.1	1379.7	1296.6	1238.2	1215.2
57.5°	14244.8	12651.1	6567.9	2120.9	1454.0	1420.4	1425.7	1349.7	1254.1	1204.6	1172.8
60°	14761.3	12850.9	5858.5	1719.4	1346.1	1335.5	1370.9	1293.1	1181.6	1125.0	1100.2
62.5°	15070.9	12847.4	4988.3	1408.0	1254.1	1257.7	1298.4	1222.3	1109.1	1056.0	1040.1
65°	15044.4	12532.5	4033.1	1204.6	1165.7	1169.2	1222.3	1144.5	1048.9	1017.1	1015.3
67.5°	14511.9	11764.9	3093.8	1071.9	1068.4	1084.3	1146.2	1091.4	1011.8	1008.3	1013.6
70°	13070.3	10171.1	2228.8	965.8	967.6	990.6	1071.9	1057.8	992.3	999.4	997.7
72.5°	10480.6	7754.8	1496.5	854.4	856.1	893.3	1001.2	1031.3	972.9	1066.6	1080.8
75°	6980.0	4836.1	962.3	735.9	737.6	785.4	939.3	980.0	919.8	1063.1	1071.9
77.5°	3353.8	2174.0	696.9	619.1	619.1	663.3	811.9	877.4	783.6	826.1	757.1
80°	1158.6	817.2	548.4	498.8	488.2	518.3	684.6	760.6	675.7	622.6	583.7
82.5°	456.4	424.5	440.5	387.4	352.0	371.5	532.4	628.0	497.1	449.3	447.5
85°	261.8	275.9	311.3	256.5	203.4	228.2	390.9	451.1	375.0	330.8	337.9
87.5°	70.8	97.3	143.3	132.7	92.0	97.3	185.7	249.4	215.8	166.3	171.6
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)