

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: P967118

Luminaire Tested: **NAV-SB4D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34555.8 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

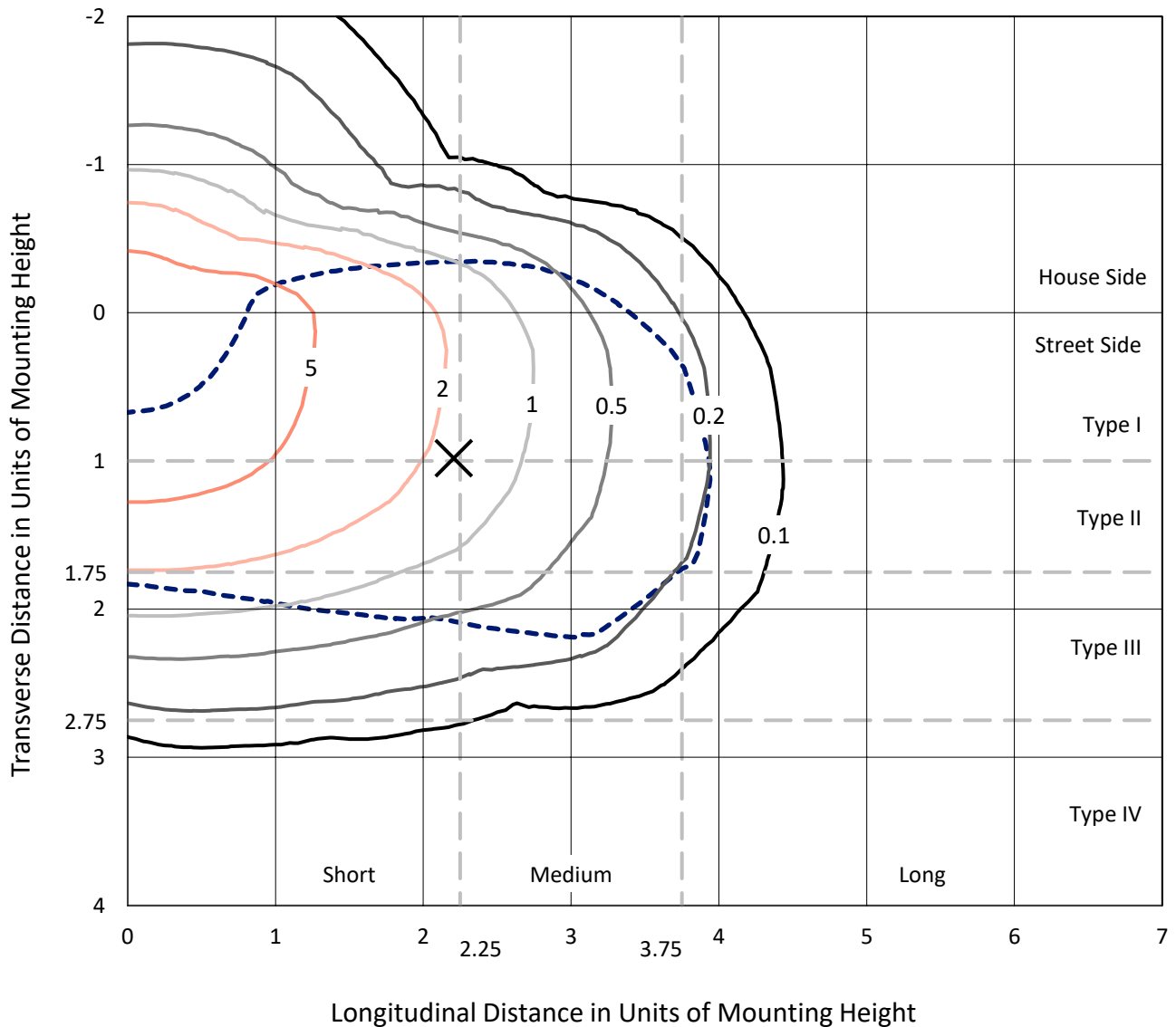
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P967118
 CATALOG NUMBER: NAV-SB4D-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

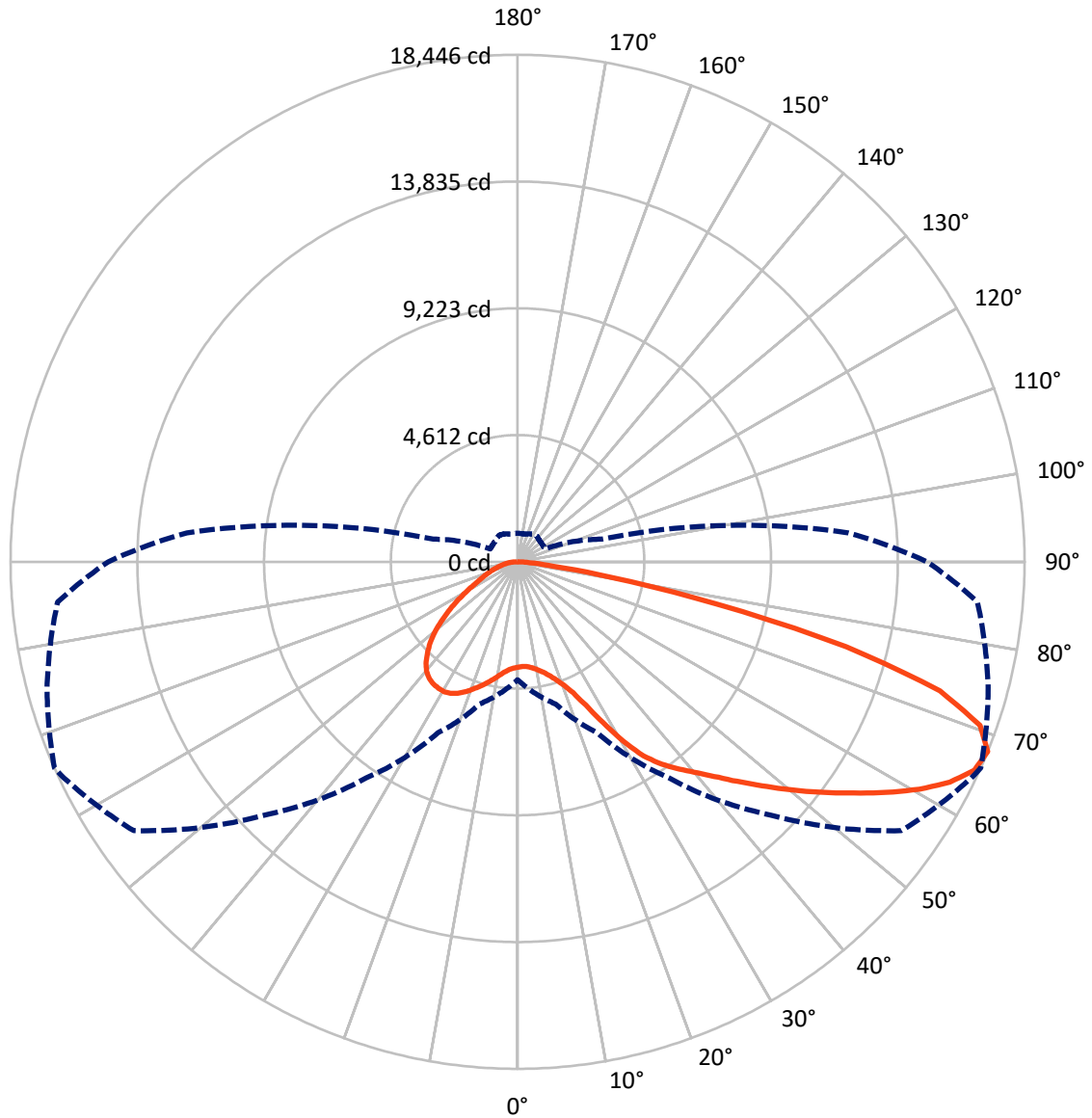
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

REPORT NUMBER: P967118
CATALOG NUMBER: NAV-SB4D-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P967118
 CATALOG NUMBER: NAV-SB4D-722-U-T3

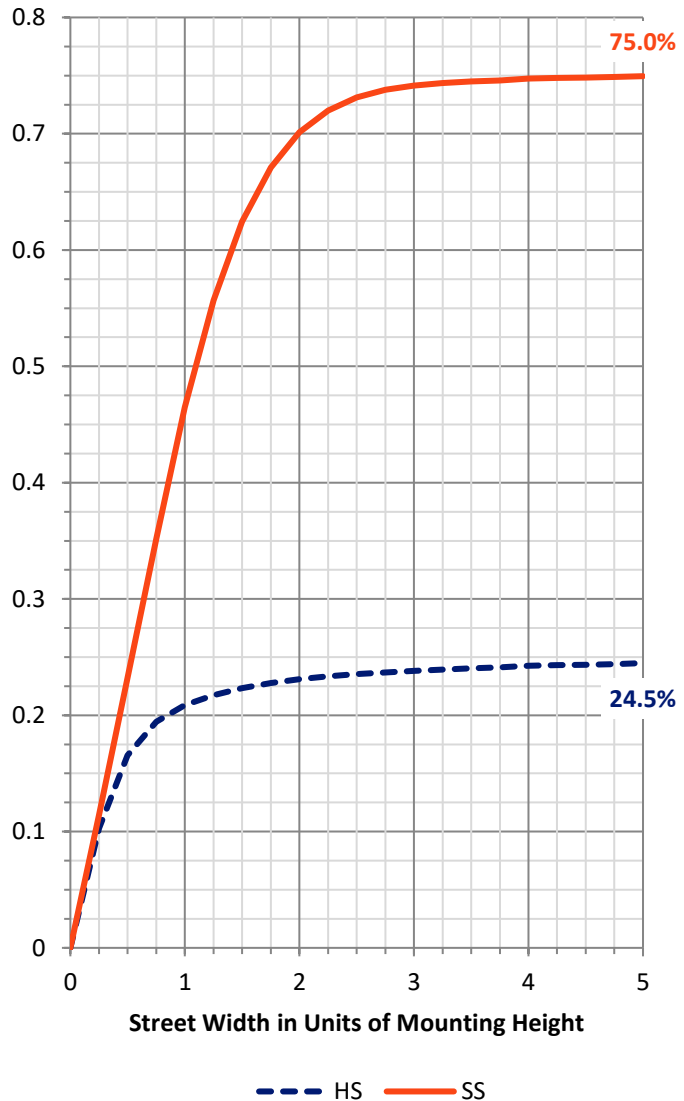
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8592.2	0.0	8592.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	25963.6	0.0	25963.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	34555.8	0.0	34555.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.0	1.1
10°-20°	1255.5	3.6
20°-30°	2419.8	7.0
30°-40°	4242.9	12.3
40°-50°	6307.7	18.3
50°-60°	7995.7	23.1
60°-70°	7823.6	22.6
70°-80°	3731.9	10.8
80°-90°	398.8	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°	34555.8	100.0
0°-180°	34555.8	100.0

Coefficient of Utilization



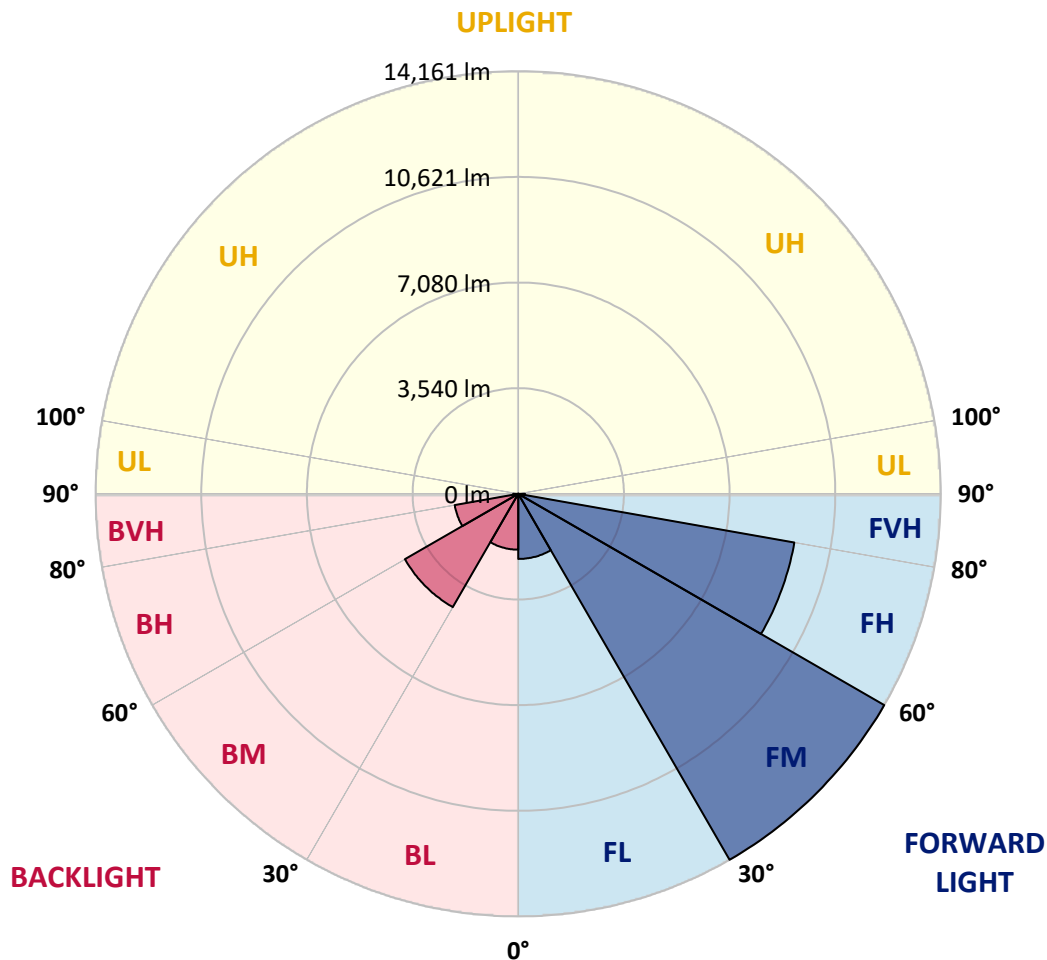
REPORT NUMBER: P967118
 CATALOG NUMBER: NAV-SB4D-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.6	6.3			
FM (30°-60°)	14160.7	41.0			
FH (60°-80°)	9393.2	27.2			G4/12000
FVH (80°-90°)	226.1	0.7			G3/500
BL (0°-30°)	1871.7	5.4	B3/2500		
BM (30°-60°)	4385.6	12.7	B3/5000		
BH (60°-80°)	2162.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	172.7	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



REPORT NUMBER: P967118
 CATALOG NUMBER: NAV-SB4D-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	3792.7	3814.5	3809.1	3800.0	3798.2	3801.8	3807.3	3812.7	3811.0	3820.0	3834.5
5°	3781.8	3803.7	3801.8	3801.8	3809.1	3823.7	3832.7	3841.8	3832.7	3843.5	3863.5
7.5°	3789.1	3805.4	3812.7	3820.0	3838.1	3865.4	3887.2	3907.1	3896.2	3908.9	3934.4
10°	3881.7	3894.4	3901.7	3901.7	3914.4	3945.2	3967.1	4003.3	3994.3	4014.2	4046.9
12.5°	4050.6	4063.3	4063.3	4056.0	4065.0	4085.0	4092.3	4132.3	4115.9	4148.6	4181.3
15°	4257.5	4283.0	4263.0	4250.3	4254.0	4273.8	4272.1	4303.0	4286.5	4313.8	4342.9
17.5°	4486.3	4519.0	4486.3	4484.5	4477.2	4499.0	4500.9	4528.0	4499.0	4519.0	4539.0
20°	4756.8	4802.2	4775.0	4784.1	4767.7	4776.8	4785.9	4825.8	4780.4	4795.0	4789.5
22.5°	5138.1	5192.5	5163.5	5198.0	5187.1	5179.8	5178.1	5248.8	5178.1	5183.5	5130.8
25°	5693.7	5759.1	5708.2	5755.4	5755.4	5779.1	5806.2	5897.0	5779.1	5744.5	5608.3
27.5°	6514.3	6579.7	6479.8	6508.9	6499.8	6557.8	6528.8	6753.9	6626.9	6570.6	6296.5
30°	7502.0	7618.2	7429.4	7422.1	7413.0	7505.7	7547.4	7696.2	7567.4	7511.1	7180.6
32.5°	8569.5	8691.2	8466.1	8400.7	8366.3	8422.5	8388.0	8507.8	8418.8	8331.7	7923.2
35°	9698.9	9818.7	9604.5	9477.4	9339.4	9221.3	9097.9	9128.8	9045.2	8912.7	8489.7
37.5°	10766.4	10986.1	10759.1	10623.0	10368.8	10138.2	9793.3	9649.9	9571.8	9450.1	9023.5
40°	11853.9	11979.2	11806.8	11690.5	11414.6	11053.3	10501.3	10198.1	10092.9	9974.8	9613.5
42.5°	12654.6	12774.5	12681.8	12602.0	12385.9	11966.5	11253.0	10873.5	10721.0	10588.5	10281.7
45°	13290.0	13379.0	13320.9	13350.0	13257.4	12850.7	12031.9	11598.0	11440.0	11278.4	11036.9
47.5°	13546.1	13640.5	13733.1	13905.6	14063.5	13763.9	12868.9	12382.3	12215.2	12050.0	11812.2
50°	13517.0	13613.2	13882.0	14248.7	14738.9	14639.0	13751.2	13217.5	13063.1	12874.3	12654.6
52.5°	13284.6	13393.6	13738.5	14348.6	15129.3	15294.4	14649.9	14079.8	13934.6	13709.5	13489.8
55°	12674.6	12739.9	13257.4	14121.6	15221.9	15752.0	15530.5	14998.5	14853.3	14539.2	14299.6
57.5°	11543.4	11637.8	12391.3	13509.8	14989.5	16062.5	16304.0	15964.5	15824.7	15372.5	15122.0
60°	10067.4	10218.1	11080.6	12482.1	14397.6	16060.6	17006.6	16913.9	16797.8	16193.2	15931.8
62.5°	8397.1	8571.4	9401.1	11029.7	13362.7	15604.9	17445.9	17709.2	17649.3	16950.3	16616.3
65°	6449.0	6568.8	7394.9	9150.6	11752.2	14626.3	17496.8	18252.1	18262.9	17525.9	16973.9
67.5°	4293.8	4638.8	5355.9	6866.6	9595.3	13026.8	17050.2	18341.0	18446.3	17723.7	16794.1
70°	2095.2	2549.1	3251.7	4462.7	6866.6	10574.0	15882.7	17611.1	17845.4	17146.4	15723.0
72.5°	869.7	1016.7	1399.8	2202.3	3941.6	7135.2	13537.0	15632.2	16066.1	15192.9	13219.2
75°	586.4	635.5	800.6	1129.2	1795.6	3518.6	9762.4	11656.1	12355.0	11474.5	9379.3
77.5°	452.1	483.0	582.8	789.8	1067.5	1330.9	5225.2	7024.5	7385.8	6837.5	4880.3
80°	355.9	379.5	435.7	575.5	757.1	711.8	1781.0	3182.7	3391.5	2845.0	1568.7
82.5°	308.6	317.8	312.3	390.3	503.0	415.7	584.7	1174.6	1296.3	940.4	512.0
85°	223.3	248.8	259.6	241.5	266.9	210.6	239.6	415.7	457.6	408.5	288.6
87.5°	90.8	134.4	165.2	156.1	98.1	60.0	74.4	121.7	139.8	152.5	94.4
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: P967118
 CATALOG NUMBER: NAV-SB4D-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	3836.4	3849.1	3858.1	3869.0	3876.2	3887.2	3908.9	3921.6	3923.5	3932.5	3930.8
5°	3870.8	3889.0	3908.9	3938.0	3970.6	3997.9	4039.6	4068.7	4079.6	4088.7	4086.9
7.5°	3945.2	3970.6	4007.0	4057.9	4105.0	4141.3	4192.1	4226.7	4261.1	4273.8	4275.7
10°	4056.0	4092.3	4145.0	4214.0	4264.8	4312.0	4364.7	4393.7	4428.2	4442.8	4450.0
12.5°	4194.0	4232.1	4301.1	4397.4	4444.5	4477.2	4495.3	4488.2	4495.3	4508.1	4511.7
15°	4351.9	4393.7	4471.8	4575.3	4608.0	4578.9	4539.0	4502.6	4497.2	4500.9	4513.6
17.5°	4539.0	4569.9	4660.6	4747.8	4724.1	4604.3	4517.2	4459.1	4430.0	4420.9	4433.6
20°	4800.4	4800.4	4874.8	4929.3	4771.4	4568.0	4431.8	4337.4	4277.5	4252.1	4246.7
22.5°	5118.1	5089.1	5136.3	5098.1	4762.3	4466.3	4277.5	4114.1	4023.3	3987.0	3981.6
25°	5521.2	5486.7	5474.0	5238.0	4697.0	4304.8	3997.9	3800.0	3720.1	3700.1	3703.8
27.5°	6129.4	6042.3	5877.0	5314.2	4577.1	4050.6	3671.1	3487.8	3442.4	3444.2	3449.6
30°	6939.1	6764.9	6360.0	5326.9	4381.1	3691.1	3337.1	3206.3	3184.6	3193.6	3224.4
32.5°	7689.0	7523.8	6853.9	5268.8	4079.6	3338.8	3037.5	2950.4	2917.7	2928.5	2943.1
35°	8277.3	8231.9	7311.3	5187.1	3709.3	3008.4	2768.7	2694.3	2630.8	2616.2	2627.2
37.5°	8832.8	8814.7	7654.5	5072.7	3342.5	2774.2	2552.7	2454.7	2362.1	2311.3	2313.0
40°	9442.8	9424.7	7879.6	4896.6	3017.5	2570.9	2358.4	2229.6	2115.2	2022.5	2031.7
42.5°	10129.2	10022.0	7986.8	4644.3	2741.6	2398.4	2200.5	2026.2	1875.5	1790.2	1795.6
45°	10878.9	10637.6	7985.0	4322.9	2509.1	2240.4	2031.7	1784.7	1644.9	1565.1	1561.4
47.5°	11674.2	11225.8	7886.9	3967.1	2284.0	2066.1	1770.2	1581.4	1488.8	1439.7	1428.8
50°	12494.9	11775.9	7719.9	3558.6	2053.4	1868.3	1606.8	1477.8	1407.1	1361.7	1345.3
52.5°	13266.5	12275.2	7518.4	3095.6	1819.2	1675.8	1534.1	1434.3	1359.9	1309.0	1287.3
55°	13983.7	12705.5	7233.3	2621.7	1628.6	1546.8	1499.7	1416.1	1330.9	1270.9	1247.3
57.5°	14620.9	12985.0	6741.2	2176.9	1492.4	1458.0	1463.4	1385.3	1287.3	1236.5	1203.8
60°	15151.0	13190.2	6013.3	1764.7	1381.7	1370.7	1407.1	1327.2	1212.8	1154.7	1129.2
62.5°	15468.8	13186.6	5120.0	1445.2	1287.3	1290.9	1332.6	1254.6	1138.4	1083.9	1067.5
65°	15441.5	12863.4	4139.6	1236.5	1196.5	1200.1	1254.6	1174.6	1076.7	1044.0	1042.1
67.5°	14895.1	12075.4	3175.4	1100.2	1096.6	1112.9	1176.5	1120.2	1038.5	1034.8	1040.4
70°	13415.3	10439.6	2287.6	991.3	993.1	1016.7	1100.2	1085.7	1018.5	1025.8	1024.0
72.5°	10757.4	7959.5	1536.0	876.9	878.7	916.9	1027.7	1058.5	998.6	1094.8	1109.4
75°	7164.3	4963.8	987.7	755.3	757.1	806.2	964.1	1005.8	944.1	1091.2	1100.2
77.5°	3442.4	2231.3	715.3	635.5	635.5	680.8	833.3	900.6	804.3	847.9	777.1
80°	1189.2	838.8	562.8	512.0	501.1	532.0	702.6	780.7	693.5	639.1	599.1
82.5°	468.4	435.7	452.1	397.6	361.3	381.3	546.5	644.5	510.1	461.1	459.3
85°	268.8	283.2	319.5	263.2	208.8	234.2	401.3	463.0	384.9	339.5	346.8
87.5°	72.7	99.8	147.1	136.1	94.4	99.8	190.6	256.0	221.5	170.7	176.1
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)