

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: P969226

Luminaire Tested: **NAV-SB5D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969226
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-SB5D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 43555.3 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

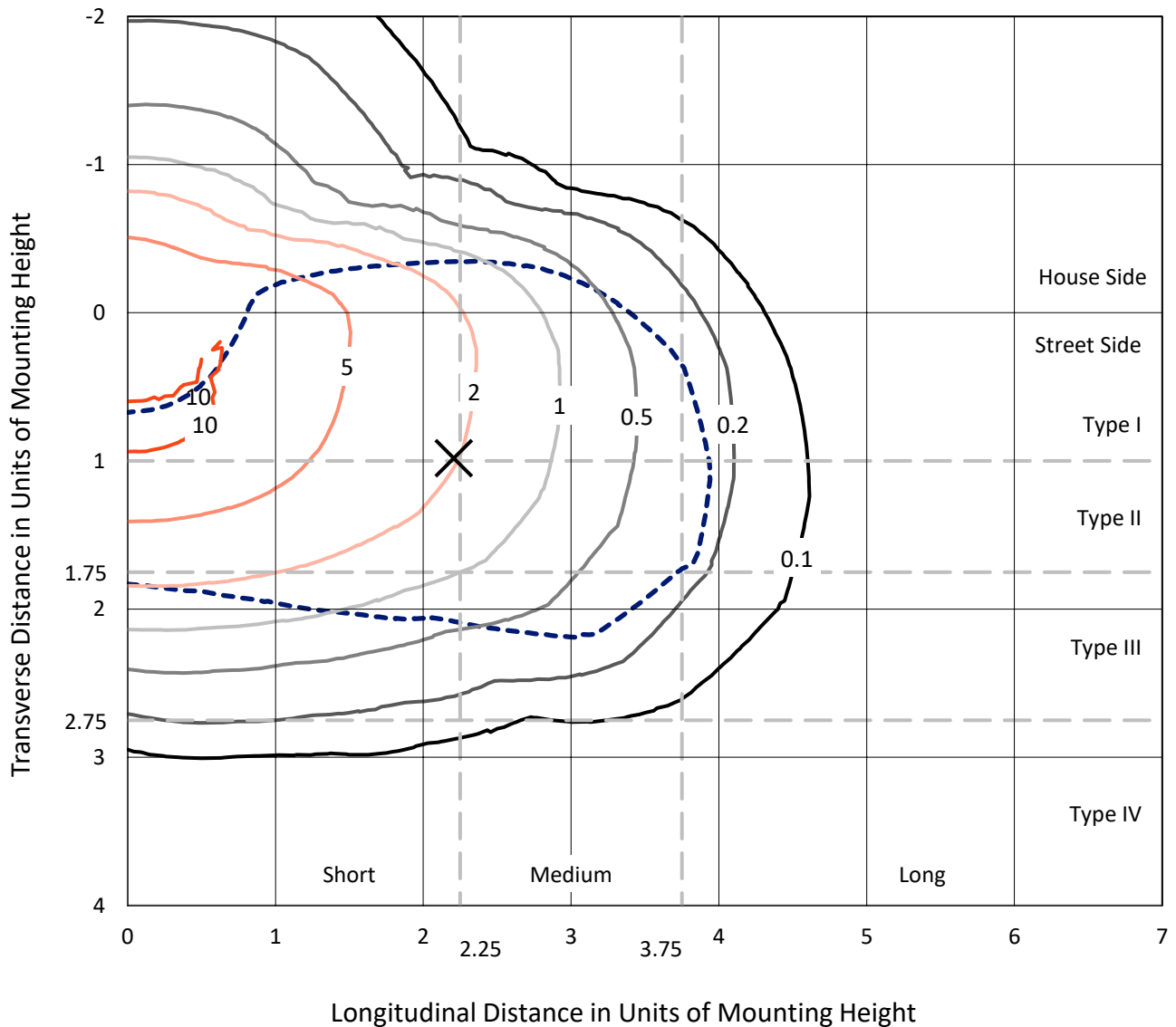
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

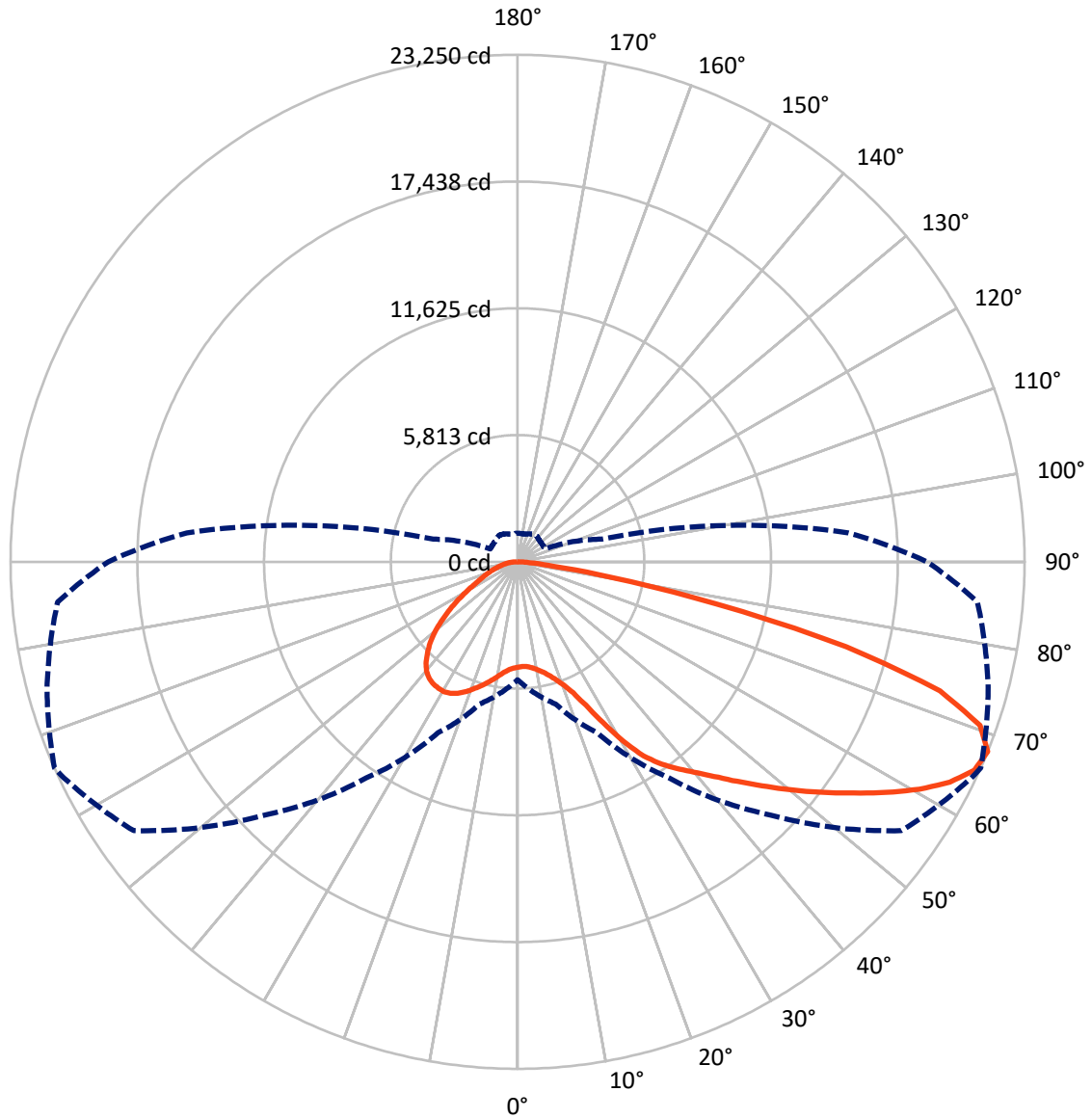
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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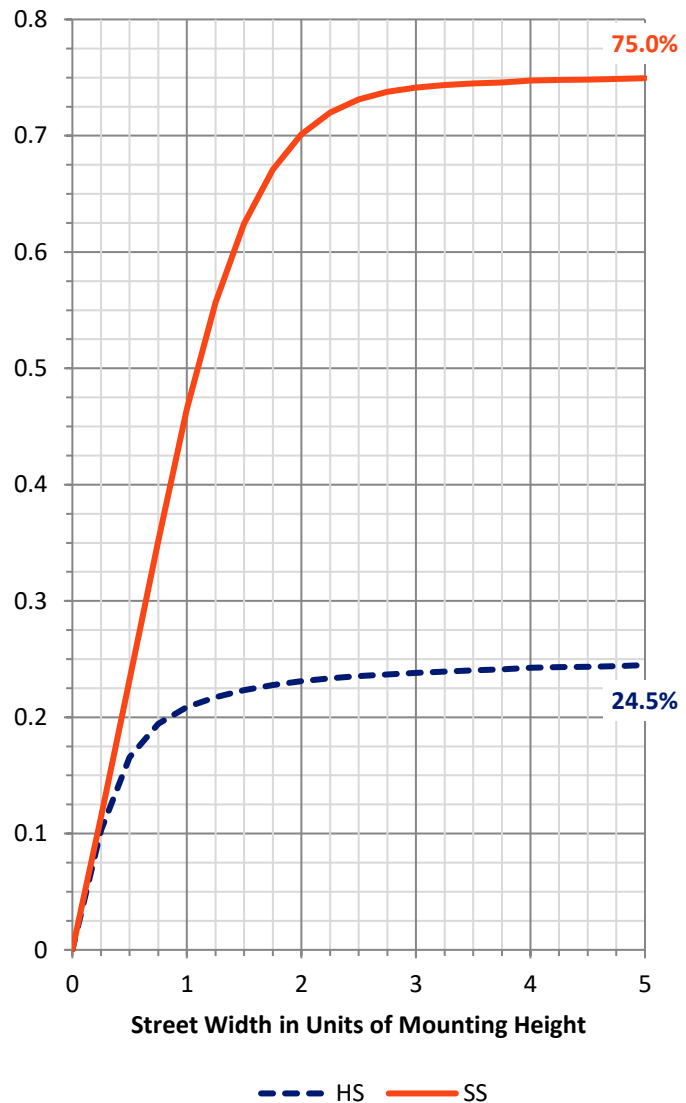
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10829.9	0.0	10829.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	32725.4	0.0	32725.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	43555.3	0.0	43555.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.0	1.1
10°-20°	1582.4	3.6
20°-30°	3050.0	7.0
30°-40°	5347.8	12.3
40°-50°	7950.5	18.3
50°-60°	10078.0	23.1
60°-70°	9861.1	22.6
70°-80°	4703.8	10.8
80°-90°	502.7	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°	43555.3	100.0
0°-180°	43555.3	100.0

Coefficient of Utilization



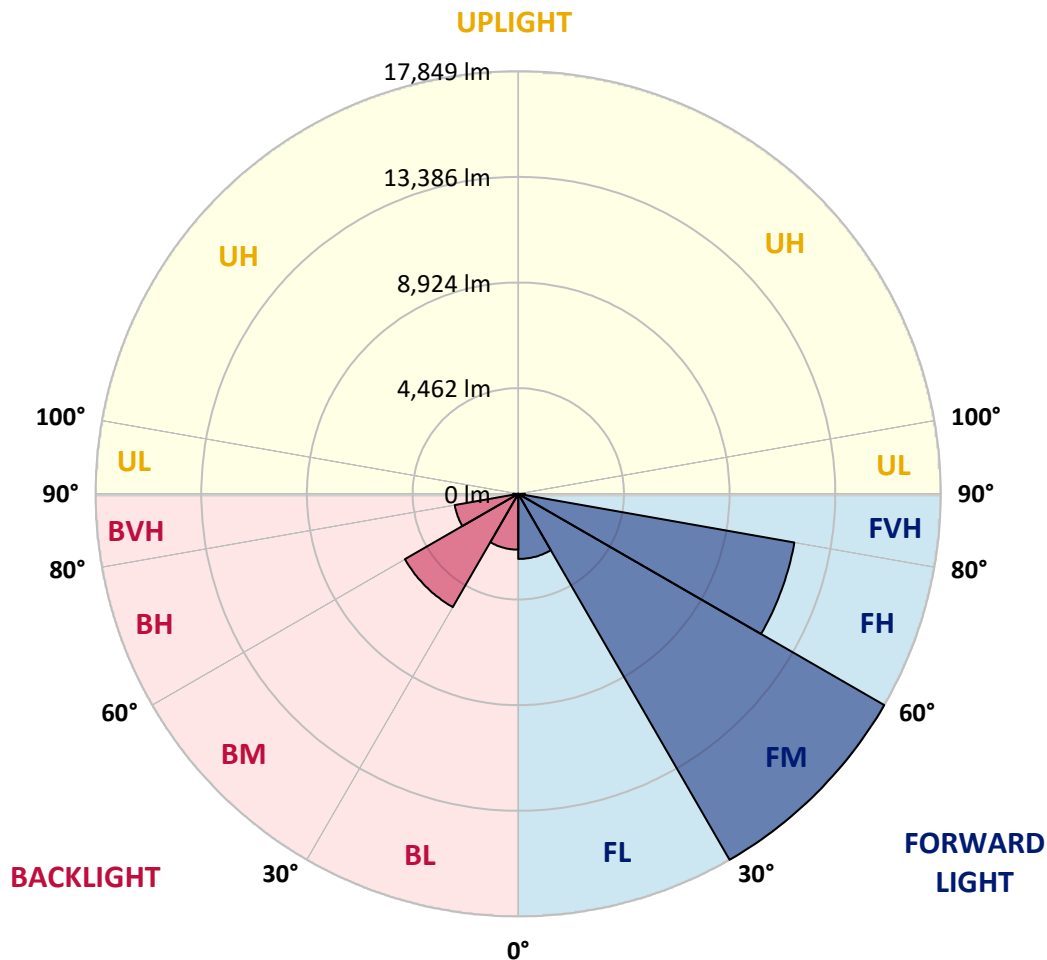
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2752.3	6.3			
FM (30°-60°)	17848.6	41.0			
FH (60°-80°)	11839.5	27.2			G4/12000
FVH (80°-90°)	285.0	0.7			G3/500
BL (0°-30°)	2359.1	5.4	B3/2500		
BM (30°-60°)	5527.7	12.7	B4/8500		
BH (60°-80°)	2725.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	217.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8
2.5°	4780.5	4808.0	4801.1	4789.6	4787.4	4792.0	4798.8	4805.7	4803.4	4814.8	4833.2
5°	4766.8	4794.2	4792.0	4792.0	4801.1	4819.4	4830.8	4842.3	4830.8	4844.6	4869.8
7.5°	4776.0	4796.5	4805.7	4814.8	4837.7	4872.0	4899.5	4924.7	4911.0	4927.0	4959.1
10°	4892.6	4908.6	4917.8	4917.8	4933.8	4972.8	5000.2	5046.0	5034.5	5059.7	5100.9
12.5°	5105.4	5121.5	5121.5	5112.3	5123.8	5149.0	5158.1	5208.4	5187.8	5229.0	5270.2
15°	5366.4	5398.4	5373.3	5357.2	5361.8	5387.0	5384.6	5423.6	5403.0	5437.3	5473.9
17.5°	5654.7	5695.9	5654.7	5652.4	5643.2	5670.7	5673.0	5707.3	5670.7	5695.9	5721.0
20°	5995.6	6052.8	6018.6	6030.0	6009.4	6020.8	6032.3	6082.7	6025.5	6043.7	6036.8
22.5°	6476.3	6544.9	6508.2	6551.8	6538.1	6528.8	6526.6	6615.9	6526.6	6533.5	6467.0
25°	7176.5	7258.8	7194.8	7254.3	7254.3	7284.1	7318.4	7432.8	7284.1	7240.6	7068.9
27.5°	8210.9	8293.3	8167.4	8204.0	8192.5	8265.8	8229.2	8512.9	8352.7	8281.8	7936.3
30°	9455.7	9602.2	9364.2	9355.1	9343.6	9460.3	9513.0	9700.6	9538.1	9467.2	9050.8
32.5°	10801.3	10954.7	10671.0	10588.6	10545.1	10616.0	10572.5	10723.6	10611.4	10501.5	9986.7
35°	12224.8	12375.7	12105.8	11945.6	11771.6	11622.9	11467.3	11506.2	11401.0	11233.9	10700.7
37.5°	13570.4	13847.2	13561.2	13389.6	13069.2	12778.6	12343.8	12163.0	12064.6	11911.2	11373.5
40°	14941.1	15099.0	14881.6	14735.2	14387.3	13931.9	13236.2	12854.1	12721.4	12572.5	12117.2
42.5°	15950.3	16101.3	15984.7	15883.9	15611.7	15083.0	14183.6	13705.4	13513.1	13346.1	12959.4
45°	16751.3	16863.4	16790.1	16826.8	16710.1	16197.5	15165.4	14618.4	14419.4	14215.7	13911.3
47.5°	17073.9	17192.9	17309.6	17527.0	17726.1	17348.5	16220.3	15607.1	15396.5	15188.2	14888.4
50°	17037.3	17158.6	17497.3	17959.5	18577.4	18451.5	17332.5	16659.7	16465.2	16227.2	15950.3
52.5°	16744.4	16881.6	17316.5	18085.4	19069.4	19277.7	18465.3	17746.7	17563.7	17279.9	17003.0
55°	15975.4	16057.9	16710.1	17799.3	19186.2	19854.4	19575.1	18904.7	18721.6	18325.7	18023.6
57.5°	14549.8	14668.8	15618.4	17028.1	18893.2	20245.7	20550.0	20122.1	19945.9	19376.1	19060.3
60°	12689.3	12879.2	13966.2	15732.9	18147.2	20243.3	21435.6	21319.0	21172.5	20410.4	20080.9
62.5°	10583.9	10803.6	11849.4	13902.2	16842.8	19669.0	21989.4	22321.3	22245.8	21364.7	20943.6
65°	8128.5	8279.5	9320.7	11533.6	14813.0	18435.5	22053.5	23005.5	23019.2	22090.2	21394.5
67.5°	5412.1	5846.9	6750.9	8654.8	12094.3	16419.5	21490.6	23117.6	23250.4	22339.6	21167.9
70°	2640.8	3213.0	4098.6	5625.0	8654.8	13327.8	20019.2	22197.7	22492.9	21611.8	19817.8
72.5°	1096.1	1281.6	1764.3	2775.9	4968.2	8993.5	17062.5	19703.4	20250.2	19149.6	16662.0
75°	739.1	800.9	1009.2	1423.4	2263.2	4435.0	12304.8	14691.6	15572.7	14462.9	11822.0
77.5°	569.8	608.7	734.6	995.5	1345.6	1677.4	6586.0	8853.9	9309.3	8618.2	6151.3
80°	448.5	478.3	549.2	725.4	954.3	897.1	2245.0	4011.6	4274.8	3586.0	1977.2
82.5°	389.0	400.5	393.6	492.0	633.9	524.1	736.9	1480.6	1634.0	1185.4	645.3
85°	281.5	313.5	327.3	304.3	336.4	265.5	302.1	524.1	576.7	514.9	363.9
87.5°	114.4	169.3	208.3	196.8	123.6	75.5	93.8	153.3	176.2	192.2	119.0
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°	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8	4830.8
2.5°	4835.4	4851.4	4862.9	4876.6	4885.8	4899.5	4927.0	4943.0	4945.3	4956.7	4954.4
5°	4878.9	4901.8	4927.0	4963.6	5004.8	5039.1	5091.8	5128.4	5142.1	5153.5	5151.2
7.5°	4972.8	5004.8	5050.6	5114.6	5174.1	5219.9	5284.0	5327.4	5370.9	5387.0	5389.2
10°	5112.3	5158.1	5224.4	5311.4	5375.5	5435.0	5501.4	5538.0	5581.4	5599.8	5608.9
12.5°	5286.2	5334.3	5421.2	5542.6	5602.0	5643.2	5666.1	5657.0	5666.1	5682.2	5686.7
15°	5485.4	5538.0	5636.4	5766.9	5808.1	5771.4	5721.0	5675.3	5668.5	5673.0	5689.1
17.5°	5721.0	5760.0	5874.4	5984.3	5954.4	5803.4	5693.6	5620.4	5583.8	5572.3	5588.3
20°	6050.6	6050.6	6144.5	6213.0	6014.0	5757.6	5586.0	5467.0	5391.5	5359.5	5352.7
22.5°	6451.0	6414.4	6473.9	6425.9	6002.5	5629.5	5391.5	5185.6	5071.2	5025.4	5018.5
25°	6959.1	6915.6	6899.6	6602.1	5920.2	5425.8	5039.1	4789.6	4689.0	4663.9	4668.4
27.5°	7725.7	7615.9	7407.7	6698.2	5769.1	5105.4	4627.2	4396.0	4338.8	4341.2	4348.0
30°	8746.3	8526.7	8016.3	6714.3	5522.0	4652.4	4206.1	4041.4	4013.9	4025.4	4064.2
32.5°	9691.5	9483.2	8638.8	6641.0	5142.1	4208.4	3828.6	3718.7	3677.5	3691.2	3709.6
35°	10433.0	10375.7	9215.5	6538.1	4675.2	3791.9	3489.8	3396.0	3315.9	3297.6	3311.4
37.5°	11133.1	11110.3	9648.0	6393.8	4213.0	3496.7	3217.5	3094.0	2977.2	2913.2	2915.4
40°	11902.1	11879.2	9931.7	6171.8	3803.4	3240.4	2972.7	2810.1	2666.0	2549.3	2560.8
42.5°	12767.1	12632.1	10066.7	5853.8	3455.5	3023.0	2773.5	2553.9	2364.0	2256.4	2263.2
45°	13712.2	13407.8	10064.5	5448.7	3162.6	2823.9	2560.8	2249.6	2073.3	1972.6	1968.0
47.5°	14714.6	14149.3	9940.9	5000.2	2878.8	2604.2	2231.2	1993.2	1876.5	1814.8	1801.0
50°	15748.9	14842.7	9730.3	4485.3	2588.2	2354.8	2025.3	1862.7	1773.6	1716.4	1695.8
52.5°	16721.5	15472.1	9476.3	3901.8	2293.0	2112.2	1933.8	1807.9	1714.0	1649.9	1622.5
55°	17625.4	16014.4	9117.1	3304.5	2052.7	1949.8	1890.2	1784.9	1677.4	1601.9	1572.1
57.5°	18428.7	16366.8	8496.9	2743.8	1881.1	1837.6	1844.5	1746.1	1622.5	1558.4	1517.2
60°	19096.9	16625.4	7579.3	2224.4	1741.5	1727.7	1773.6	1672.8	1528.7	1455.4	1423.4
62.5°	19497.3	16620.8	6453.4	1821.6	1622.5	1627.1	1679.7	1581.3	1434.8	1366.2	1345.6
65°	19463.0	16213.4	5217.6	1558.4	1508.1	1512.7	1581.3	1480.6	1357.0	1315.8	1313.5
67.5°	18774.2	15220.3	4002.4	1386.8	1382.2	1402.8	1482.9	1411.9	1309.0	1304.4	1311.3
70°	16909.1	13158.4	2883.4	1249.5	1251.7	1281.6	1386.8	1368.5	1283.8	1292.9	1290.7
72.5°	13558.9	10032.5	1936.0	1105.3	1107.6	1155.7	1295.3	1334.1	1258.6	1380.0	1398.2
75°	9030.1	6256.5	1244.9	952.0	954.3	1016.1	1215.1	1267.8	1190.0	1375.3	1386.8
77.5°	4338.8	2812.5	901.6	800.9	800.9	858.1	1050.4	1135.1	1013.7	1068.7	979.5
80°	1499.0	1057.3	709.4	645.3	631.6	670.6	885.6	984.0	874.2	805.5	755.2
82.5°	590.4	549.2	569.8	501.1	455.4	480.5	688.8	812.4	643.1	581.3	578.9
85°	338.7	357.0	402.7	331.8	263.1	295.2	505.7	583.5	485.1	427.9	437.1
87.5°	91.5	125.9	185.3	171.6	119.0	125.9	240.3	322.7	279.2	215.1	222.0
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)