

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: P970310

Luminaire Tested: **NAV-SB6B-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33327.9 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

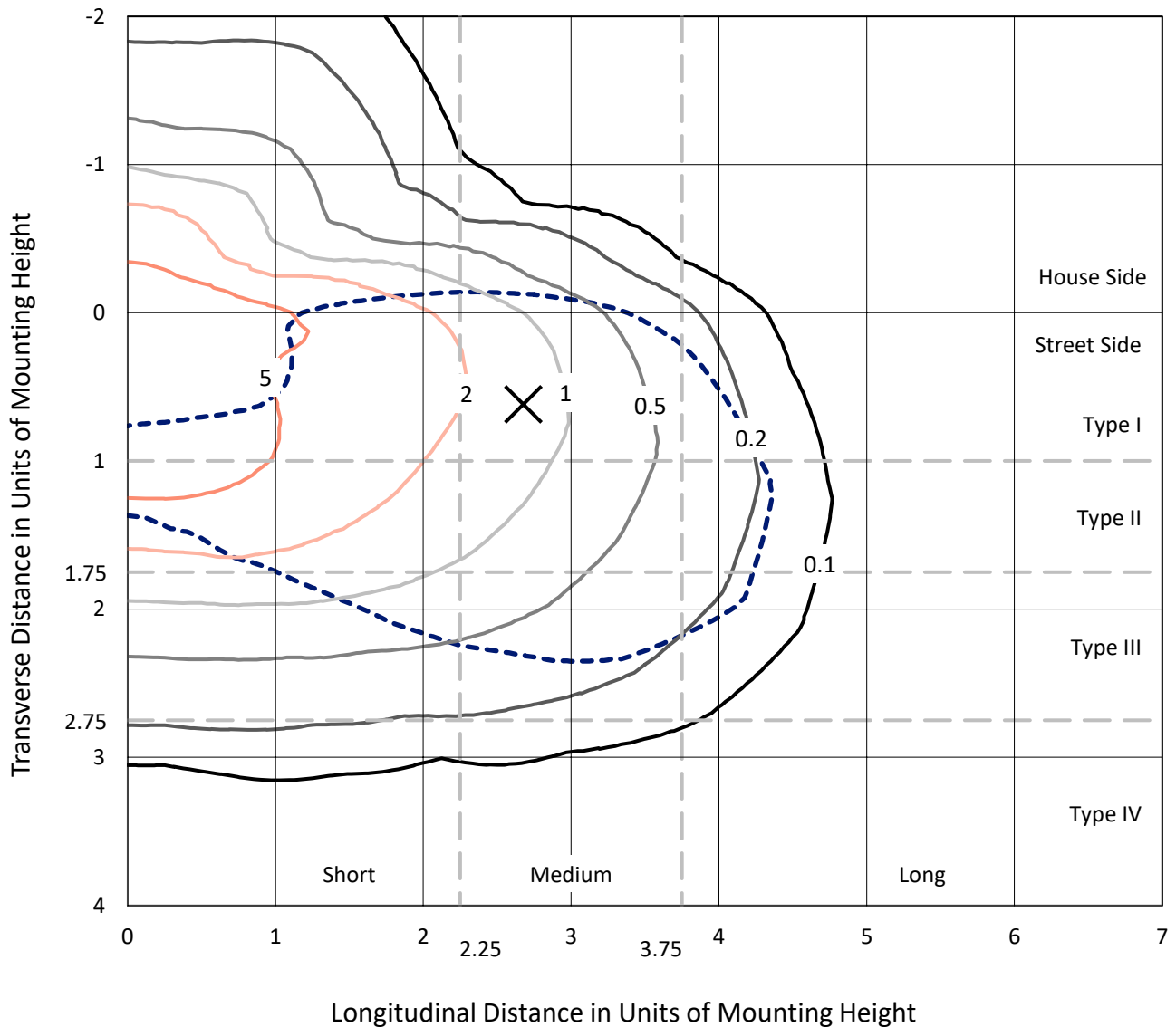
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

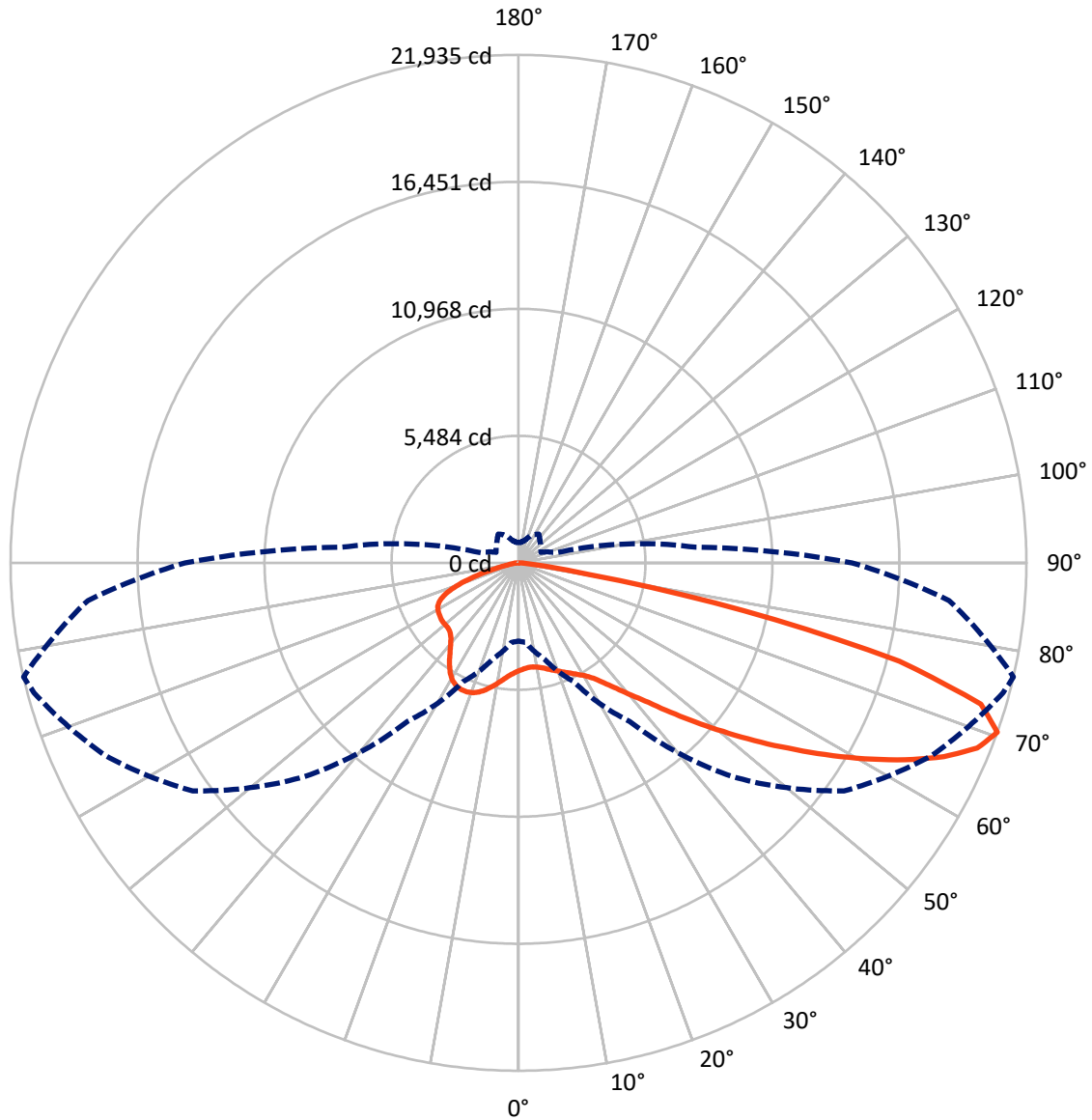
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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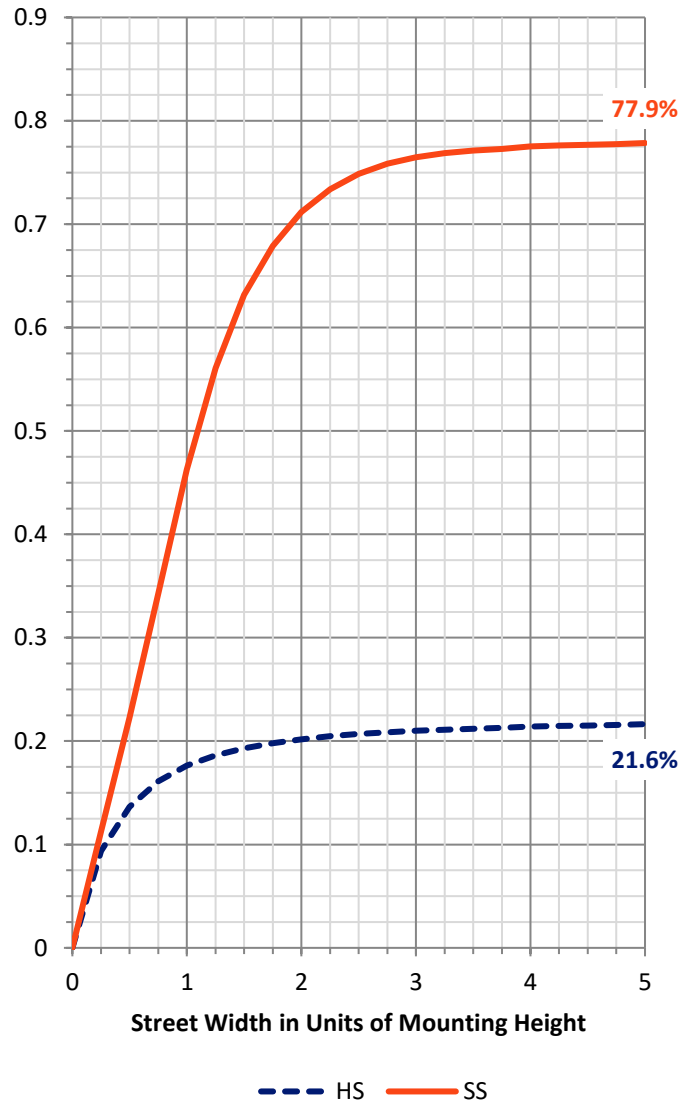
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7298.3	0.0	7298.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	26029.6	0.0	26029.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	33327.9	0.0	33327.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.4	1.3
10°-20°	1279.8	3.8
20°-30°	2188.7	6.6
30°-40°	3519.6	10.6
40°-50°	5495.0	16.5
50°-60°	7340.0	22.0
60°-70°	7823.3	23.5
70°-80°	4816.0	14.5
80°-90°	422.0	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°	33327.9	100.0
0°-180°	33327.9	100.0

Coefficient of Utilization

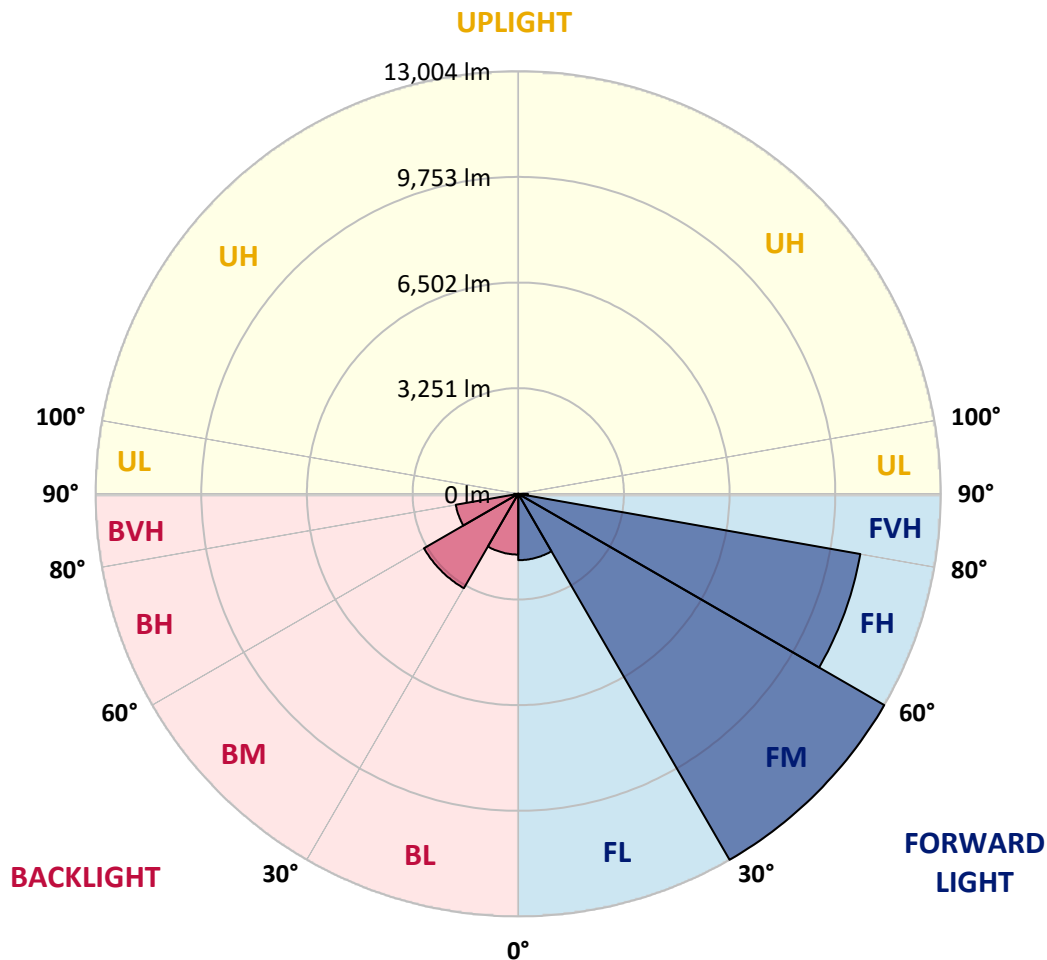


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.9	6.1			
FM (30°-60°)	13003.8	39.0			
FH (60°-80°)	10688.8	32.1			G4/12000
FVH (80°-90°)	295.1	0.9			G3/500
BL (0°-30°)	1870.0	5.6	B3/2500		
BM (30°-60°)	3350.8	10.1	B3/5000		
BH (60°-80°)	1950.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	126.9	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5
2.5°	4285.9	4284.3	4306.4	4313.3	4354.3	4383.3	4437.8	4496.0	4571.0	4579.6	4625.6
5°	4038.5	4038.5	4064.1	4091.4	4144.3	4202.3	4285.9	4386.7	4516.4	4536.9	4651.2
7.5°	3828.6	3842.2	3864.4	3917.2	3978.7	4062.4	4190.4	4333.8	4504.5	4536.9	4721.3
10°	3659.6	3674.9	3702.2	3744.9	3837.1	3953.1	4120.4	4304.8	4533.5	4584.7	4823.6
12.5°	3606.7	3622.0	3637.3	3669.8	3755.1	3891.7	4091.4	4318.4	4603.5	4654.6	4963.6
15°	3729.6	3748.3	3736.3	3727.8	3772.2	3896.8	4105.0	4367.9	4690.5	4763.9	5136.0
17.5°	4012.9	4019.7	3992.4	3912.2	3905.4	3971.9	4169.9	4436.2	4799.8	4879.9	5310.1
20°	4470.3	4458.3	4402.1	4243.3	4152.9	4139.2	4280.8	4538.6	4912.4	4997.7	5497.9
22.5°	5091.6	5078.0	4965.3	4714.4	4513.0	4379.8	4441.3	4671.7	5038.7	5134.3	5680.4
25°	5866.6	5847.7	5682.2	5340.9	5028.4	4699.0	4659.8	4847.5	5194.1	5282.7	5871.7
27.5°	6771.2	6755.9	6576.6	6126.0	5675.4	5136.0	4931.2	5054.1	5356.2	5456.9	6086.8
30°	7744.1	7788.5	7471.0	6986.3	6416.2	5706.1	5296.5	5308.4	5566.2	5656.6	6347.9
32.5°	8887.8	8964.5	8582.2	7967.7	7189.4	6325.7	5757.3	5663.4	5871.7	5946.7	6677.4
35°	10021.1	10108.1	9790.7	9111.3	8215.2	7056.2	6238.7	6071.4	6277.9	6359.8	7114.3
37.5°	11000.8	11116.9	10953.0	10362.4	9312.7	7937.0	6866.8	6551.0	6778.0	6880.4	7701.4
40°	11774.1	11951.6	11939.6	11570.9	10606.6	9005.5	7663.9	7143.3	7399.4	7510.3	8413.2
42.5°	12402.2	12555.8	12689.0	12670.1	11956.7	10219.0	8601.0	7913.1	8107.6	8235.7	9213.7
45°	12835.8	12999.6	13286.4	13595.3	13255.6	11518.0	9674.6	8826.3	9003.8	9196.7	10167.9
47.5°	13223.2	13409.3	13781.3	14271.2	14358.3	12822.1	10850.6	9889.7	10051.9	10251.5	11125.5
50°	13257.4	13417.8	13994.7	14689.4	15141.7	14074.9	12113.8	11082.8	11234.7	11448.0	12151.3
52.5°	12432.9	12685.5	13692.6	14677.5	15501.9	15123.0	13368.3	12323.7	12494.3	12750.4	13213.0
55°	9650.7	10021.1	12806.8	14220.0	15373.9	15800.6	14561.4	13643.1	13861.6	14129.5	14281.4
57.5°	8312.5	8474.7	10166.2	13387.1	14790.1	15976.4	15568.4	14976.2	15327.7	15621.4	15411.4
60°	7471.0	7605.9	8606.1	12091.5	14022.0	15698.2	16346.8	16218.8	16826.4	17176.3	16567.0
62.5°	6569.7	6697.8	7607.6	10096.1	13038.8	15235.6	16838.4	17365.8	18362.7	18745.0	17655.9
65°	5675.4	5784.6	6656.9	8483.2	11789.4	14773.0	17092.7	18357.5	19784.4	20180.4	18560.6
67.5°	4678.5	4769.0	5593.4	7157.0	10270.3	14139.8	17219.0	19137.6	21021.9	21361.6	19007.8
70°	3376.2	3446.2	4297.9	5660.0	8363.7	13050.8	17167.8	19690.6	21663.7	21935.1	18669.9
72.5°	1595.9	1659.1	2659.4	3674.9	5907.5	10930.9	16131.8	19251.9	21011.7	20876.9	16601.1
75°	851.8	906.3	1527.7	2015.9	3120.2	7493.2	13201.0	16584.1	17644.0	16988.6	12269.0
77.5°	577.0	619.6	945.6	1210.2	1425.3	3557.2	8484.9	11482.2	11046.9	9964.7	6144.8
80°	457.5	501.8	774.9	819.3	689.6	1285.2	3505.9	5315.2	3818.3	3053.6	1747.8
82.5°	351.6	401.1	652.0	594.0	375.6	527.5	1020.7	1681.3	978.1	744.2	423.3
85°	215.0	267.9	512.1	378.9	211.7	240.7	346.4	467.7	298.7	249.2	151.9
87.5°	109.3	153.6	259.4	138.3	95.6	56.4	92.1	92.1	78.5	68.3	39.3
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°	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5	4649.5
2.5°	4666.6	4700.8	4758.8	4813.4	4856.0	4897.0	4938.0	4960.2	4967.0	4994.3	5009.7
5°	4721.3	4784.4	4897.0	5002.8	5069.4	5110.4	5139.5	5156.5	5159.8	5168.5	5182.1
7.5°	4821.9	4922.7	5079.7	5185.5	5235.0	5231.6	5219.6	5177.0	5159.8	5144.6	5148.0
10°	4963.6	5096.7	5289.6	5363.0	5332.3	5250.4	5144.6	5019.9	4961.9	4905.5	4888.5
12.5°	5139.5	5308.4	5497.9	5494.4	5342.5	5132.6	4886.8	4695.6	4574.5	4487.3	4467.0
15°	5352.8	5547.4	5692.4	5576.4	5243.5	4866.3	4506.2	4256.9	4147.8	4052.1	4041.9
17.5°	5572.9	5781.2	5847.7	5550.8	4994.3	4472.1	4064.1	3867.8	3760.2	3709.1	3724.4
20°	5788.1	5994.6	5940.0	5404.0	4615.4	4024.9	3661.3	3553.7	3531.5	3543.5	3538.4
22.5°	6015.0	6199.4	5958.7	5120.6	4132.4	3567.4	3367.6	3371.1	3420.6	3456.4	3465.0
25°	6247.2	6371.8	5909.2	4711.0	3613.4	3231.1	3181.6	3236.2	3333.5	3403.5	3422.3
27.5°	6470.8	6525.4	5801.7	4204.0	3168.0	2990.4	2998.9	3111.6	3258.5	3355.7	3379.6
30°	6723.4	6662.0	5595.2	3633.9	2859.0	2783.9	2855.6	2987.1	3133.8	3220.9	3241.4
32.5°	7008.4	6779.8	5267.5	3106.6	2640.5	2618.4	2736.1	2821.5	2886.3	2911.9	2925.6
35°	7363.5	6945.3	4847.5	2736.1	2444.2	2497.2	2609.9	2567.1	2541.6	2527.9	2541.6
37.5°	7824.3	7168.8	4355.9	2495.5	2285.5	2410.1	2456.2	2323.1	2222.4	2172.9	2184.8
40°	8379.1	7496.6	3883.1	2309.4	2184.8	2335.1	2254.8	2094.4	1966.4	1896.4	1901.5
42.5°	8995.3	7839.7	3485.4	2169.4	2128.5	2273.6	2106.3	1915.1	1708.6	1686.4	1708.6
45°	9642.2	8193.0	3214.1	2061.9	2101.1	2220.7	2021.0	1712.0	1565.2	1655.7	1703.4
47.5°	10289.1	8517.3	3050.2	1981.7	2087.5	2160.9	1945.9	1599.3	1495.3	1626.7	1688.1
50°	11009.4	8807.5	2976.8	1923.6	2072.1	2137.0	1833.2	1570.3	1421.9	1508.9	1573.8
52.5°	11724.6	9032.8	2922.2	1865.6	2050.0	2118.3	1778.6	1536.2	1333.1	1338.2	1374.0
55°	12438.1	9179.6	2862.4	1788.8	2000.5	2077.3	1773.5	1498.7	1266.5	1242.6	1259.7
57.5°	13199.3	9263.2	2789.0	1703.4	1915.1	1973.1	1768.3	1469.6	1246.0	1206.7	1211.9
60°	13974.2	9386.1	2693.5	1599.3	1800.7	1848.6	1756.3	1459.4	1234.1	1167.5	1172.6
62.5°	14669.0	9428.8	2579.1	1500.4	1653.9	1725.7	1730.8	1450.9	1201.6	1087.3	1087.3
65°	15124.7	9244.5	2379.4	1387.6	1495.3	1599.3	1681.3	1421.9	1143.6	1029.2	1029.2
67.5°	15105.9	8718.8	2067.0	1242.6	1341.6	1459.4	1609.6	1372.4	1073.6	957.6	962.7
70°	14402.7	7680.9	1671.1	1073.6	1172.6	1309.1	1517.4	1299.0	989.9	879.0	889.3
72.5°	12352.7	6011.6	1213.6	875.7	976.3	1153.8	1397.9	1210.2	904.7	809.0	803.9
75°	8824.5	3804.6	822.8	672.5	759.5	978.1	1249.5	1106.1	826.2	812.5	766.4
77.5°	4507.8	1817.8	544.5	491.6	529.1	771.5	1049.7	988.3	838.0	670.8	597.4
80°	1466.2	670.8	343.1	334.6	351.6	513.7	812.5	810.8	635.0	455.7	402.8
82.5°	467.7	288.4	223.6	215.0	206.5	322.6	566.7	641.8	428.4	288.4	286.8
85°	186.0	172.4	131.4	121.2	87.0	151.9	297.0	426.7	319.2	208.3	213.4
87.5°	68.3	68.3	35.9	25.6	18.8	51.2	80.3	128.0	182.7	107.5	105.8
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)