

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: P970802

Luminaire Tested: **NAV-SB6C-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38969.5 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

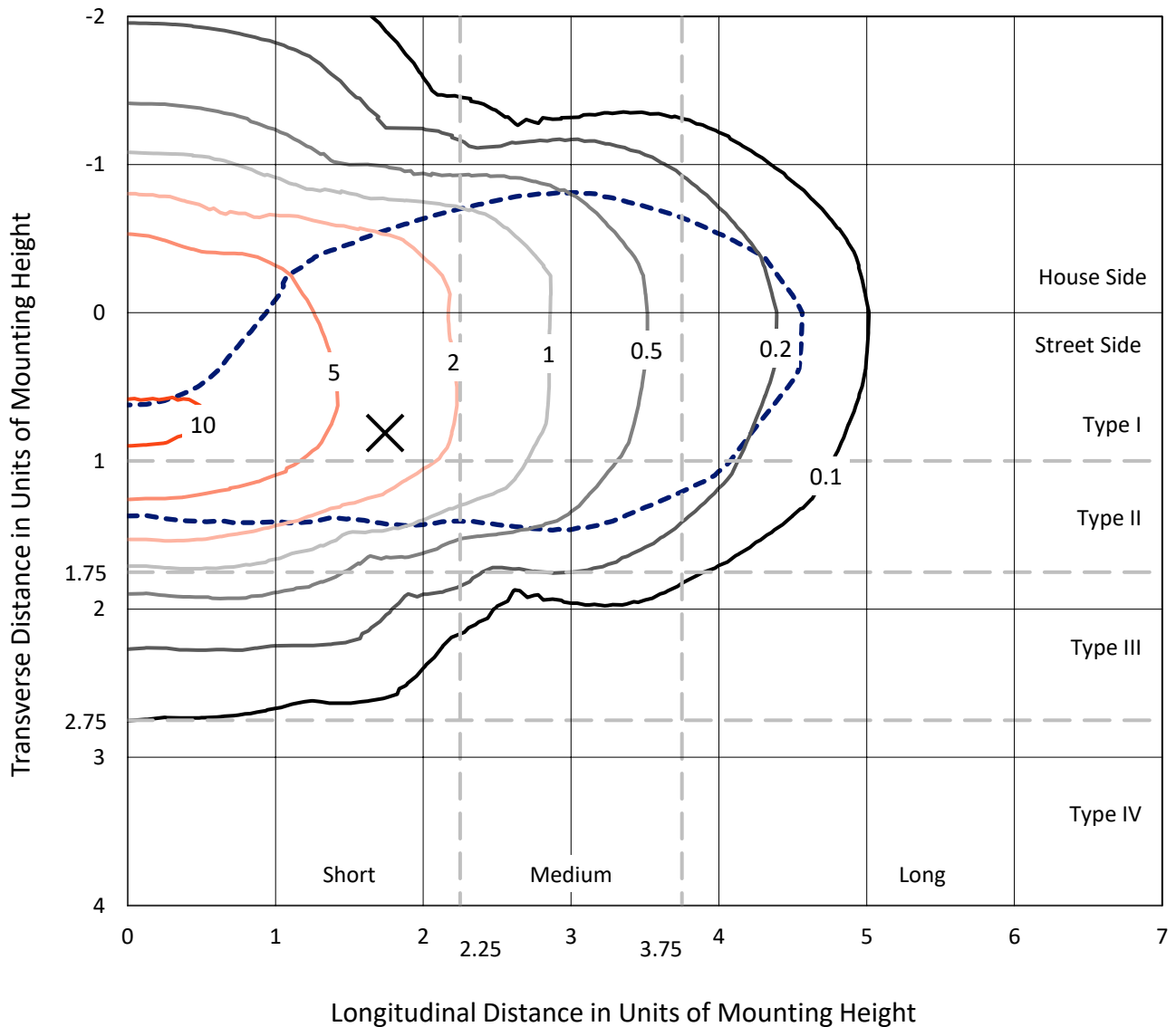
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

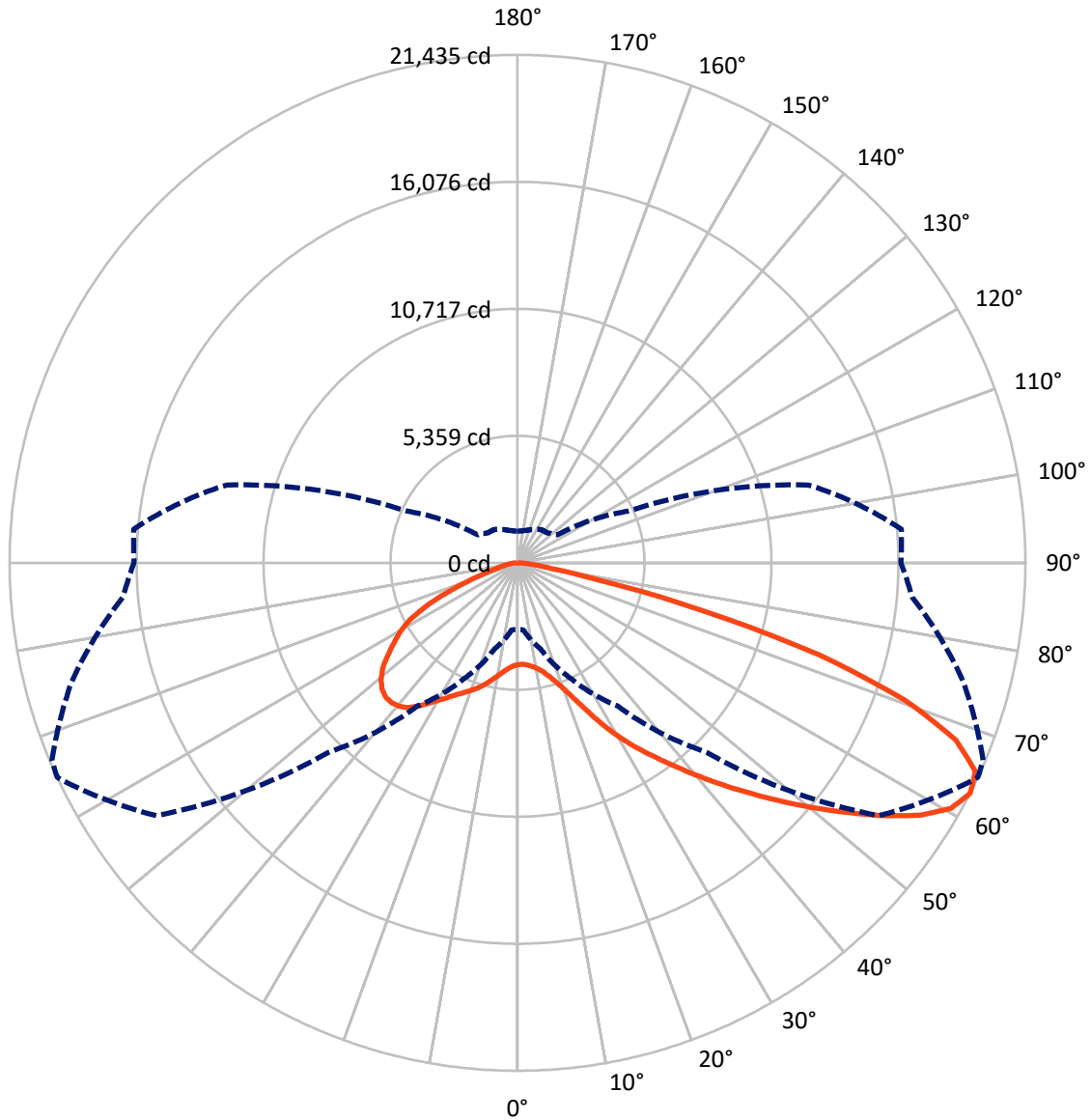
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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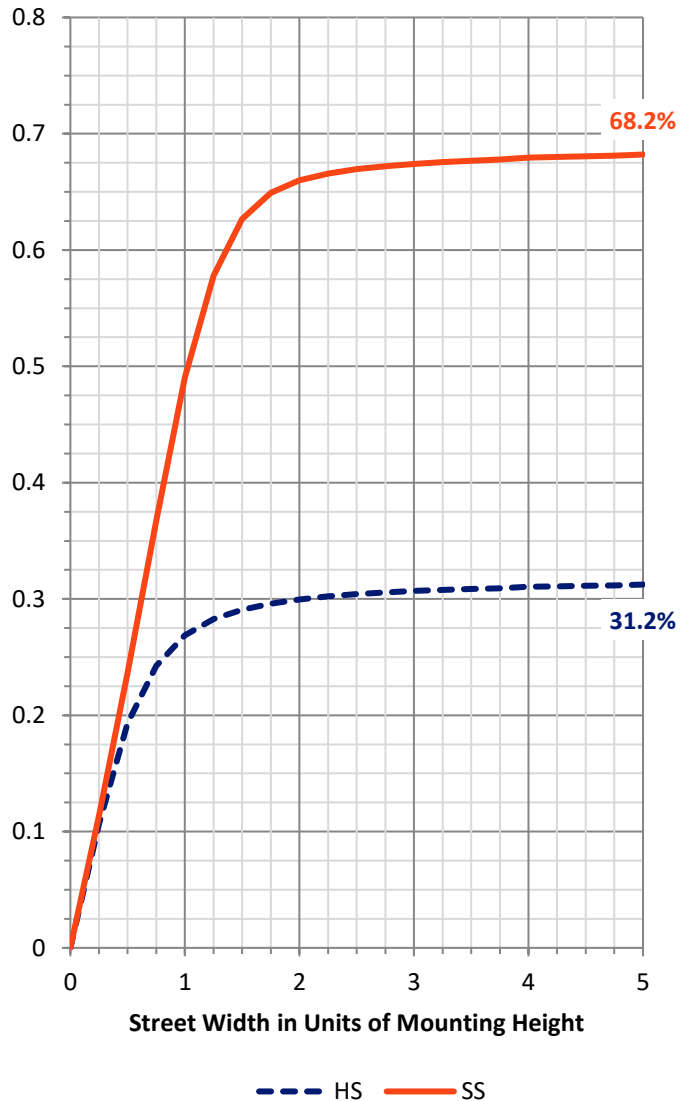
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12297.0	0.0	12297.0
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	26672.4	0.0	26672.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	38969.5	0.0	38969.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.1	1.1
10°-20°	1451.8	3.7
20°-30°	2943.8	7.6
30°-40°	5094.1	13.1
40°-50°	7709.0	19.8
50°-60°	9038.3	23.2
60°-70°	7577.5	19.4
70°-80°	4183.4	10.7
80°-90°	543.4	1.4
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°	38969.5	100.0
0°-180°	38969.5	100.0

**Coefficient of Utilization**

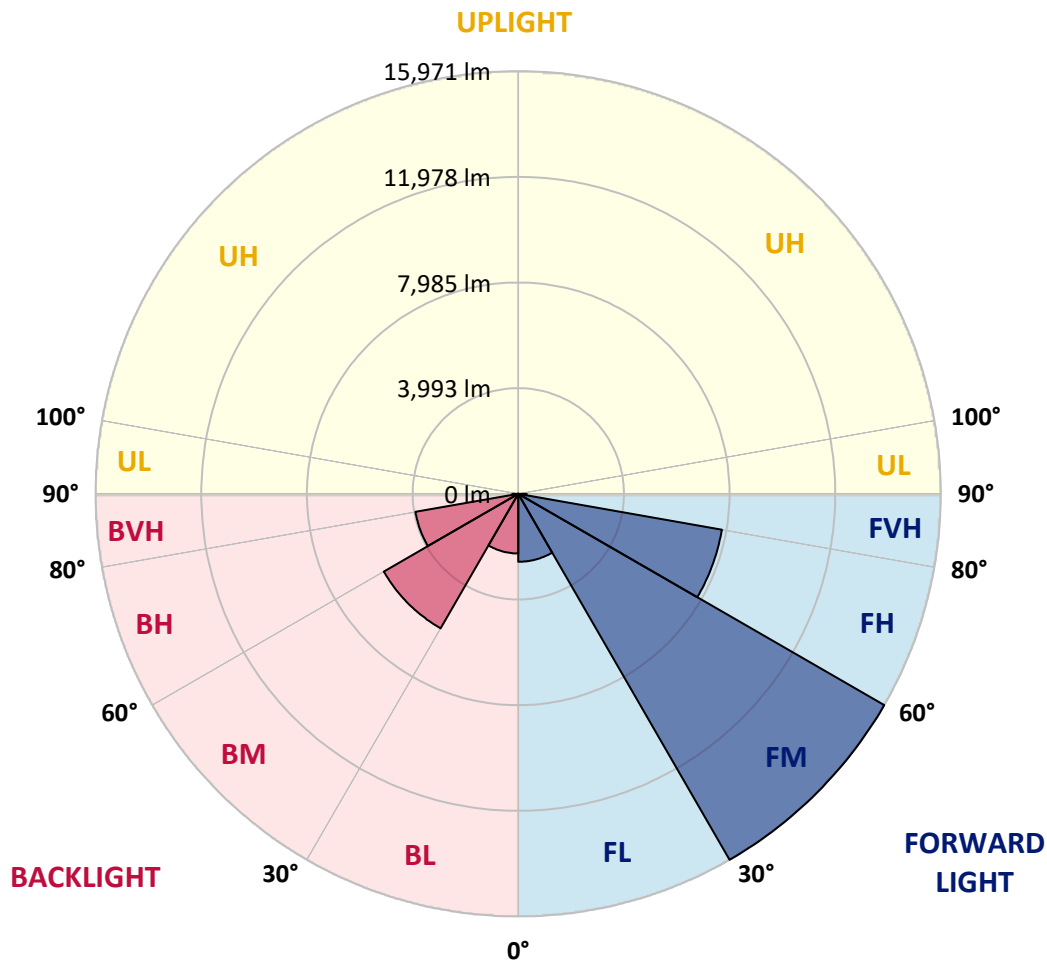


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2568.6	6.6			
FM (30°-60°)	15970.9	41.0			
FH (60°-80°)	7816.1	20.1			G4/12000
FVH (80°-90°)	316.7	0.8			G3/500
BL (0°-30°)	2255.1	5.8	B3/2500		
BM (30°-60°)	5870.4	15.1	B4/8500		
BH (60°-80°)	3944.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	226.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2
2.5°	4265.9	4253.9	4263.9	4263.9	4268.0	4265.9	4280.1	4284.2	4290.2	4302.3	4302.3
5°	4223.5	4221.5	4239.7	4255.9	4272.0	4286.1	4304.4	4330.6	4334.7	4348.9	4367.0
7.5°	4209.4	4197.3	4225.6	4245.8	4284.2	4318.5	4367.0	4411.5	4429.7	4435.8	4470.1
10°	4318.5	4298.3	4324.6	4336.8	4369.1	4403.4	4460.1	4530.8	4551.0	4575.3	4613.7
12.5°	4504.6	4482.3	4520.7	4538.9	4569.2	4599.6	4637.9	4706.7	4716.8	4761.3	4797.7
15°	4759.3	4733.0	4757.2	4779.5	4830.0	4858.3	4896.7	4963.5	4963.5	4997.8	5024.1
17.5°	5105.0	5070.7	5088.8	5096.9	5129.3	5171.7	5236.4	5295.0	5325.4	5313.3	5276.8
20°	5620.6	5578.0	5578.0	5537.7	5525.6	5559.9	5644.8	5725.6	5758.0	5695.4	5606.4
22.5°	6394.9	6334.3	6299.9	6162.4	6107.8	6111.9	6196.7	6295.9	6322.1	6210.9	6010.8
25°	7379.5	7284.5	7237.9	7035.8	6912.5	6805.3	6872.0	6999.4	7035.8	6898.4	6574.9
27.5°	8364.1	8370.2	8325.7	8083.0	7878.9	7682.8	7648.4	7781.8	7820.2	7664.5	7264.3
30°	9745.0	9601.5	9516.5	9225.4	8934.3	8659.3	8517.8	8572.4	8582.4	8396.5	7931.4
32.5°	10935.8	10899.4	10717.5	10462.7	10088.7	9658.1	9421.5	9334.6	9318.4	9053.5	8501.6
35°	12292.4	12272.2	12080.1	11776.8	11372.6	10774.1	10347.5	10098.8	10078.6	9706.5	9065.7
37.5°	13671.3	13671.3	13483.3	13151.7	12733.2	11985.1	11336.1	10941.9	10877.2	10392.0	9639.8
40°	14771.2	14704.4	14738.8	14599.3	14120.1	13325.6	12434.0	11861.8	11774.9	11192.6	10250.4
42.5°	15395.9	15373.7	15579.9	15735.5	15539.4	14904.6	13643.0	12858.5	12737.3	12074.1	10954.0
45°	15535.4	15511.1	15879.1	16449.2	16724.2	16463.3	14957.1	13907.8	13760.2	12996.0	11708.2
47.5°	15213.9	15165.4	15705.3	16604.9	17486.4	17945.4	16380.5	15046.1	14831.7	13893.7	12482.4
50°	14247.5	14201.0	15017.8	16212.6	17743.2	18952.1	17925.1	16253.1	15925.6	14856.0	13264.9
52.5°	12146.9	12169.1	13448.9	15090.6	17405.5	19578.9	19255.4	17524.8	17130.5	15840.7	13998.8
55°	9462.0	9510.5	11083.4	12890.9	16055.0	19483.9	20163.3	18834.9	18442.7	16766.6	14757.0
57.5°	6775.0	6989.3	8463.2	10252.5	13461.0	17977.7	20361.4	20080.4	19700.3	17777.5	15499.0
60°	4391.3	4429.7	5946.0	7749.5	10250.4	15300.9	19959.0	21024.5	20727.3	18808.6	16119.7
62.5°	2814.3	2840.6	3764.5	5420.4	7377.4	11320.0	18604.5	21434.9	21344.0	19490.0	16716.1
65°	2068.2	2048.1	2529.3	3582.6	4969.5	6981.2	15974.1	21236.8	21416.8	19916.6	17209.4
67.5°	1726.6	1698.3	1934.9	2480.7	3661.4	3964.7	11819.4	19949.0	20608.0	19868.1	17571.3
70°	1573.0	1548.7	1692.3	1841.8	2856.8	2654.6	5958.2	17342.9	18357.8	19316.1	17512.6
72.5°	1332.4	1289.9	1486.0	1635.6	2221.9	2036.0	2462.6	13321.5	14558.9	17547.1	16687.8
75°	1033.1	1004.8	1172.6	1439.5	1670.0	1589.2	1556.8	8089.2	9439.7	13570.2	14599.3
77.5°	818.9	780.4	934.1	1122.1	1502.1	1198.9	1134.3	3483.6	4821.9	8663.3	10923.7
80°	616.6	582.3	709.6	887.5	1154.5	903.7	733.9	1421.3	1817.6	4389.3	5493.2
82.5°	438.7	408.4	495.4	651.0	776.3	810.8	450.9	796.6	895.6	1692.3	1227.2
85°	281.1	262.8	331.6	408.4	493.3	521.6	275.0	416.5	456.9	697.5	511.5
87.5°	153.6	125.4	177.9	190.0	228.5	208.3	131.4	151.6	163.8	252.8	216.4
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°	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2	4294.2
2.5°	4310.4	4316.5	4336.8	4342.8	4357.0	4375.1	4387.3	4399.4	4399.4	4411.5	4411.5
5°	4369.1	4383.2	4425.6	4447.9	4484.3	4520.7	4542.9	4569.2	4585.4	4593.5	4597.5
7.5°	4482.3	4504.6	4565.1	4603.6	4666.3	4716.8	4751.2	4787.6	4795.7	4817.9	4809.8
10°	4636.0	4662.2	4731.0	4803.8	4878.6	4941.2	4973.6	4999.8	5010.0	5014.0	5003.9
12.5°	4811.9	4850.3	4939.2	5028.1	5107.1	5161.6	5169.7	5163.6	5135.4	5111.1	5111.1
15°	5028.1	5062.6	5161.6	5258.7	5335.5	5345.6	5295.0	5262.7	5228.3	5222.3	5222.3
17.5°	5287.0	5305.2	5396.1	5491.1	5497.2	5462.8	5388.0	5357.7	5325.4	5303.1	5305.2
20°	5588.2	5582.2	5646.8	5687.3	5644.8	5539.7	5426.5	5375.9	5343.5	5317.3	5319.3
22.5°	5948.1	5901.5	5893.5	5883.4	5770.1	5549.8	5396.1	5331.4	5280.9	5244.5	5256.6
25°	6471.7	6293.8	6170.5	6101.7	5847.0	5495.2	5299.0	5155.5	5060.5	4997.8	5022.1
27.5°	7126.8	6827.5	6516.2	6348.4	5847.0	5384.0	5064.5	4832.1	4676.4	4611.7	4644.1
30°	7751.6	7438.1	6979.2	6645.6	5832.9	5202.1	4686.5	4363.0	4181.1	4116.4	4154.7
32.5°	8285.3	7943.5	7470.5	6971.1	5798.4	4906.9	4217.5	3859.5	3683.6	3606.9	3645.3
35°	8780.6	8416.7	7963.8	7329.0	5707.5	4474.2	3701.9	3428.9	3232.8	3109.5	3149.9
37.5°	9288.0	8855.4	8430.8	7652.4	5543.7	3968.8	3305.6	3073.2	2842.6	2676.9	2721.3
40°	9840.0	9322.5	8930.2	7844.5	5274.9	3487.6	2998.3	2786.1	2541.4	2365.5	2399.8
42.5°	10484.9	9882.4	9486.2	7943.5	4906.9	3145.9	2798.1	2589.9	2359.4	2215.8	2244.1
45°	11158.3	10499.1	9993.6	7941.6	4496.5	2986.1	2733.5	2527.2	2272.5	2122.9	2147.2
47.5°	11863.9	11144.1	10432.4	7812.1	4140.6	3008.4	2697.1	2391.7	2110.8	1965.1	1985.4
50°	12571.4	11849.7	10857.0	7569.5	3989.0	2959.9	2561.6	2201.7	1870.1	1738.7	1746.8
52.5°	13273.0	12599.7	11222.9	7223.8	3835.3	2779.9	2387.7	1955.1	1771.1	1680.1	1680.1
55°	13978.6	13341.7	11621.2	6720.4	3451.2	2569.7	2096.6	1862.0	1692.3	1609.4	1601.3
57.5°	14686.2	14199.0	11999.3	6216.9	2968.0	2310.9	1936.8	1748.9	1613.4	1542.6	1530.5
60°	15422.1	15179.5	12389.5	5754.0	2490.9	1979.3	1819.6	1657.8	1520.4	1441.6	1435.5
62.5°	16180.3	16259.2	12694.7	5157.6	2052.2	1777.1	1714.5	1548.7	1415.2	1340.4	1338.4
65°	16944.6	17300.4	12894.9	4330.6	1663.9	1585.1	1601.3	1429.4	1294.0	1229.3	1227.2
67.5°	17520.7	18050.5	12838.3	3277.3	1364.7	1403.1	1459.7	1304.0	1176.7	1126.2	1128.1
70°	17585.5	17961.5	12280.3	2244.1	1142.3	1225.2	1302.1	1180.7	1049.3	1012.9	1015.0
72.5°	16724.2	16748.5	10725.6	1465.7	966.4	1075.6	1136.2	1055.3	928.0	891.6	889.6
75°	14465.8	13851.2	7874.9	966.4	808.7	923.9	980.5	923.9	800.6	808.7	780.4
77.5°	10960.1	9809.7	4781.5	687.4	675.3	776.3	853.2	812.7	707.7	794.6	699.6
80°	5646.8	5307.1	2133.0	513.5	533.7	620.6	701.5	649.0	560.1	533.7	487.3
82.5°	1294.0	1504.2	841.0	368.0	386.1	446.8	535.8	487.3	402.3	339.7	335.6
85°	452.8	495.4	372.0	230.5	226.4	279.0	363.9	325.5	273.0	218.3	230.5
87.5°	143.5	188.0	139.5	93.0	97.1	125.4	167.8	153.6	127.4	82.9	86.9
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)