

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: P971334

Luminaire Tested: **NAV-SB6D-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971334
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-SB6D-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 52286.3 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

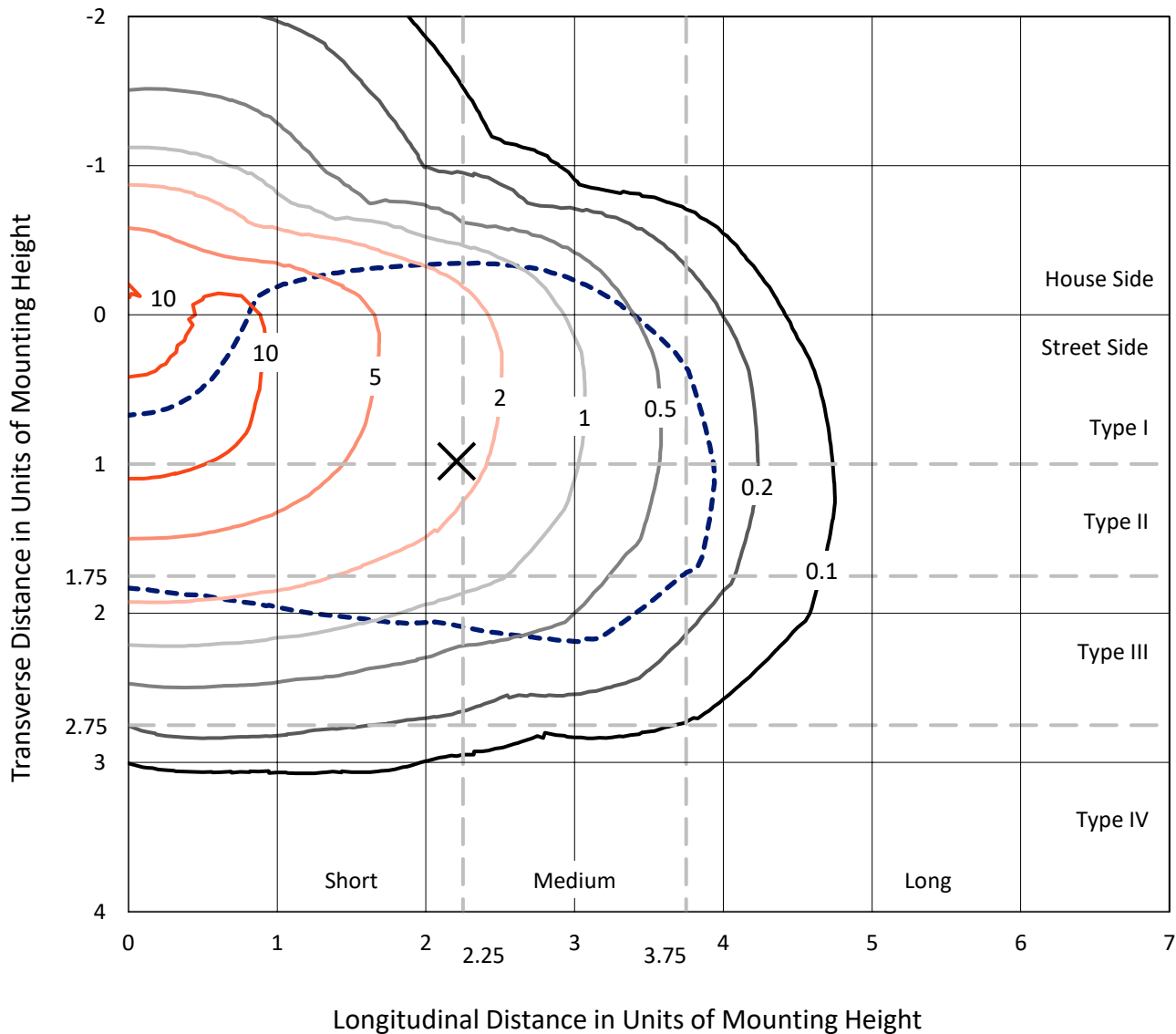
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

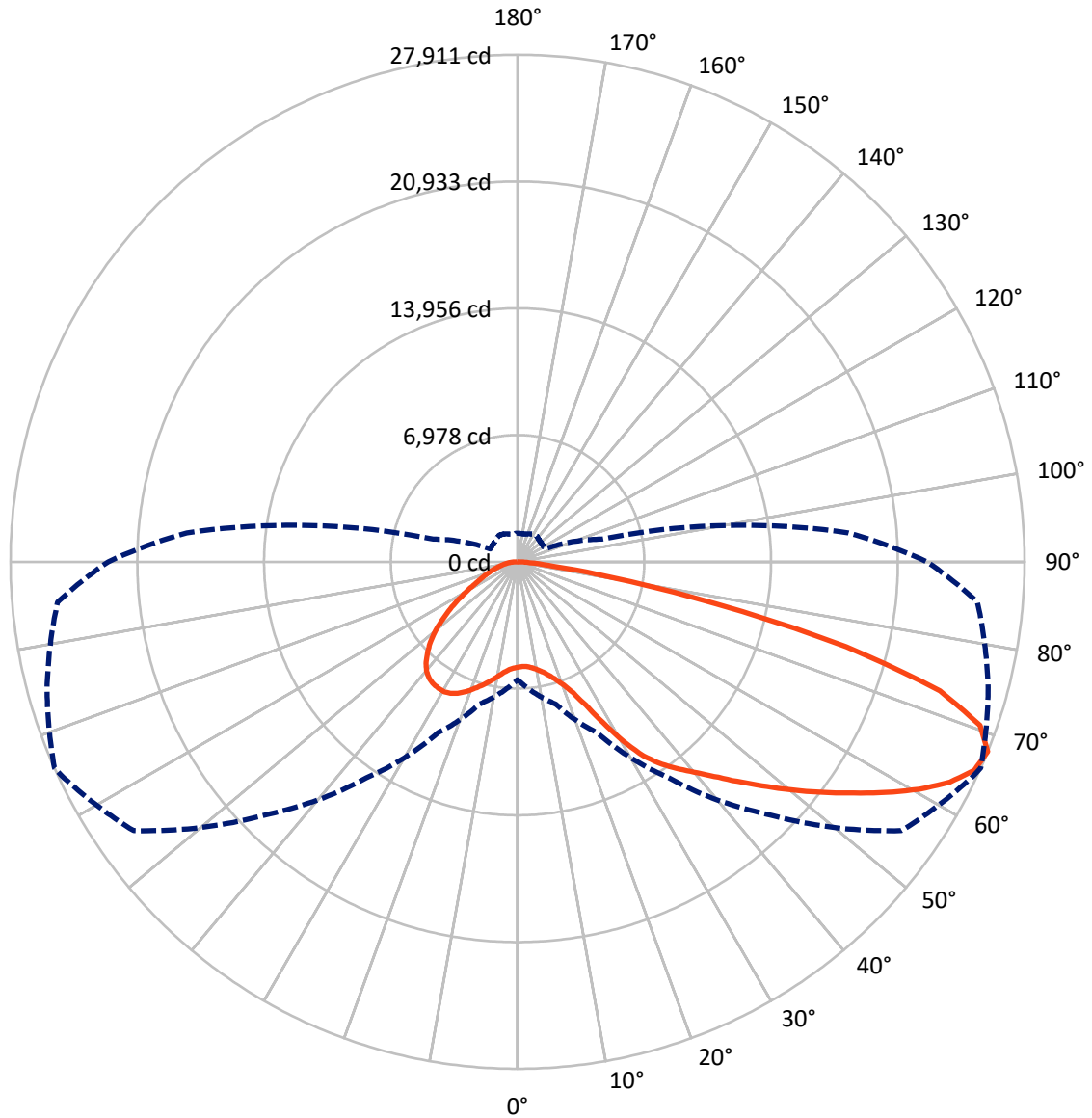
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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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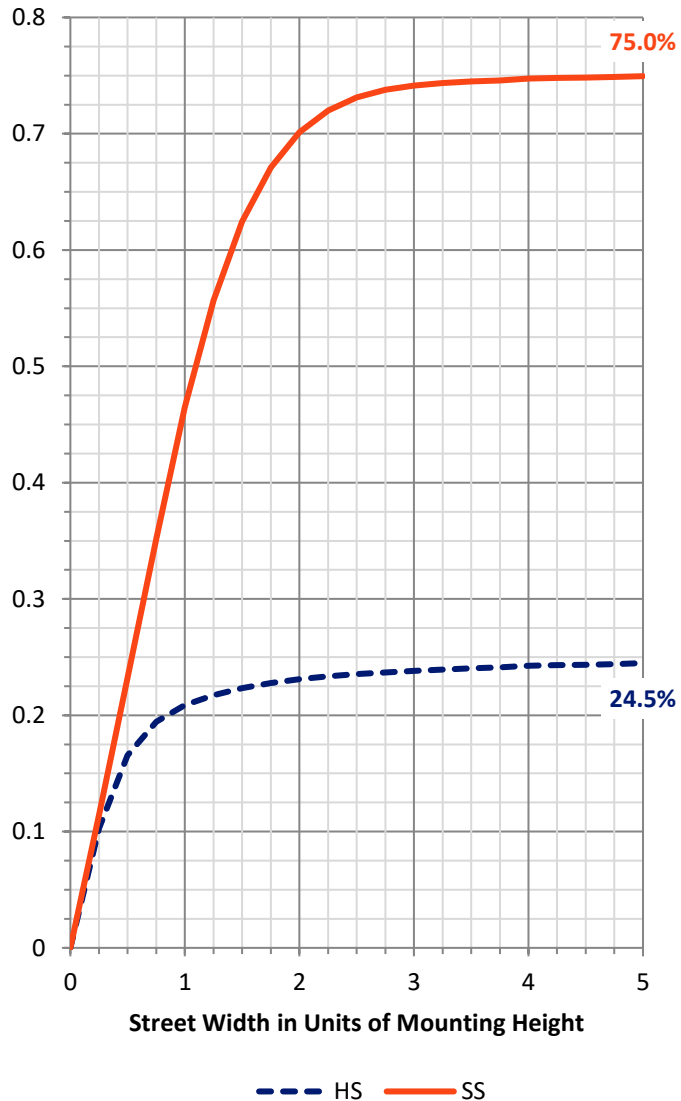
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13000.8	0.0	13000.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	39285.4	0.0	39285.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	52286.3	0.0	52286.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.0	1.1
10°-20°	1899.6	3.6
20°-30°	3661.4	7.0
30°-40°	6419.9	12.3
40°-50°	9544.2	18.3
50°-60°	12098.2	23.1
60°-70°	11837.8	22.6
70°-80°	5646.7	10.8
80°-90°	603.5	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°	52286.3	100.0
0°-180°	52286.3	100.0

Coefficient of Utilization

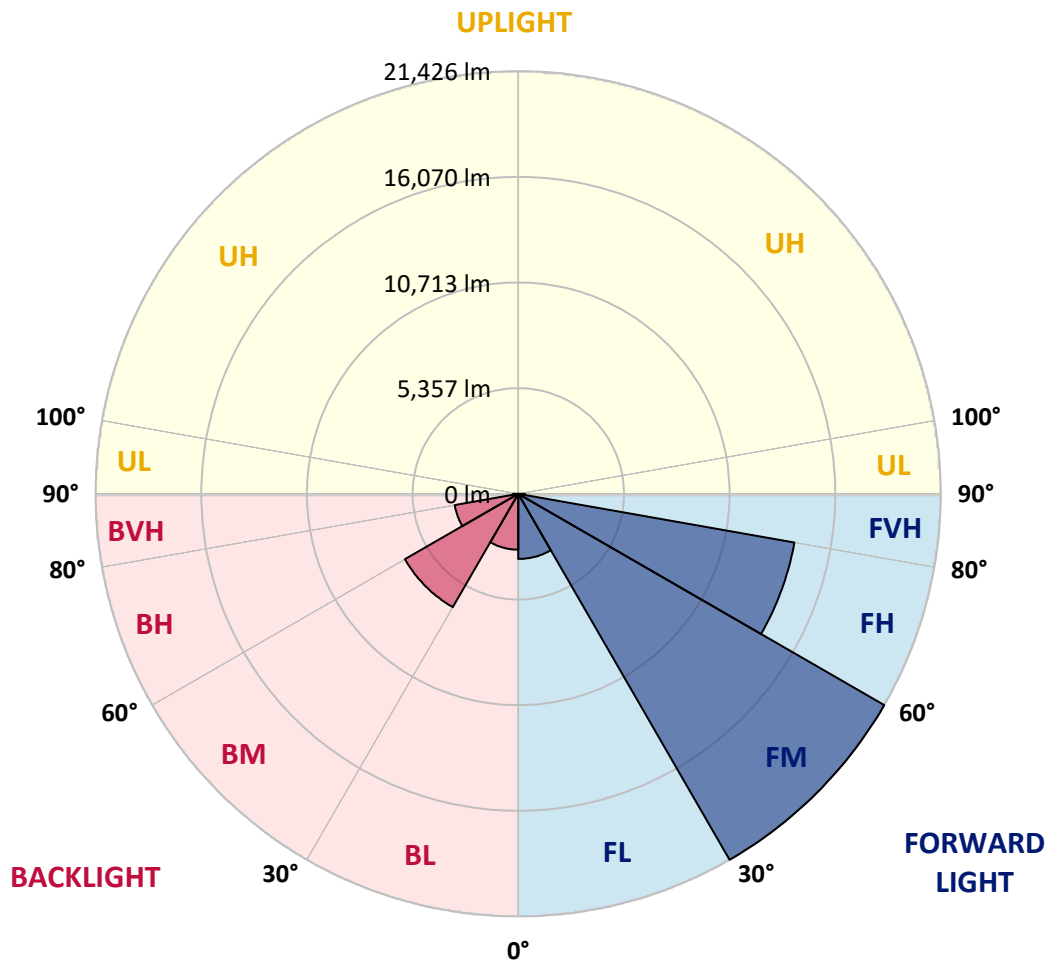


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3304.0	6.3			
FM (30°-60°)	21426.5	41.0			
FH (60°-80°)	14212.8	27.2			G5
FVH (80°-90°)	342.2	0.7			G3/500
BL (0°-30°)	2832.0	5.4	B4/5000		
BM (30°-60°)	6635.8	12.7	B4/8500		
BH (60°-80°)	3271.7	6.3	B4/5000		G4/5000
BVH (80°-90°)	261.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2
2.5°	5738.8	5771.8	5763.6	5749.8	5747.1	5752.5	5760.8	5769.0	5766.2	5780.0	5802.0
5°	5722.3	5755.3	5752.5	5752.5	5763.6	5785.5	5799.2	5813.0	5799.2	5815.7	5846.0
7.5°	5733.3	5758.0	5769.0	5780.0	5807.4	5848.6	5881.7	5911.9	5895.4	5914.7	5953.1
10°	5873.5	5892.6	5903.6	5903.6	5922.9	5969.6	6002.5	6057.4	6043.7	6073.9	6123.5
12.5°	6128.9	6148.2	6148.2	6137.2	6150.9	6181.1	6192.1	6252.5	6227.8	6277.2	6326.7
15°	6442.0	6480.6	6450.3	6431.1	6436.6	6466.8	6464.1	6510.8	6486.0	6527.2	6571.2
17.5°	6788.2	6837.7	6788.2	6785.5	6774.4	6807.4	6810.2	6851.4	6807.4	6837.7	6867.9
20°	7197.6	7266.2	7225.0	7238.8	7214.1	7227.8	7241.5	7301.9	7233.2	7255.3	7247.0
22.5°	7774.4	7856.8	7812.9	7865.1	7848.6	7837.7	7834.9	7942.0	7834.9	7843.1	7763.5
25°	8615.0	8713.9	8637.1	8708.5	8708.5	8744.2	8785.4	8922.7	8744.2	8692.0	8486.0
27.5°	9856.8	9955.7	9804.6	9848.5	9834.8	9922.7	9878.7	10219.5	10027.1	9942.0	9527.2
30°	11351.3	11527.0	11241.4	11230.3	11216.6	11356.7	11419.9	11645.2	11450.2	11365.0	10865.0
32.5°	12966.6	13150.6	12809.9	12711.0	12658.9	12744.0	12691.9	12873.2	12738.5	12606.7	11988.6
35°	14675.3	14856.6	14532.4	14340.2	14131.4	13952.8	13766.0	13812.7	13686.3	13485.8	12845.7
37.5°	16290.6	16623.0	16279.7	16073.6	15689.0	15340.1	14818.1	14601.1	14482.9	14299.0	13653.3
40°	17936.2	18125.7	17864.7	17688.9	17271.4	16724.6	15889.6	15430.8	15271.4	15092.8	14546.2
42.5°	19147.6	19328.9	19188.8	19068.0	18741.1	18106.5	17026.9	16452.7	16222.0	16021.4	15557.1
45°	20109.2	20243.8	20155.9	20199.8	20059.7	19444.4	18205.3	17548.8	17309.8	17065.3	16699.9
47.5°	20496.5	20639.4	20779.4	21040.5	21279.4	20826.2	19471.8	18735.6	18482.8	18232.8	17872.9
50°	20452.5	20598.2	21004.7	21559.6	22301.3	22150.2	20806.9	19999.3	19765.8	19480.0	19147.6
52.5°	20100.9	20265.8	20787.7	21710.7	22892.0	23142.0	22166.8	21304.2	21084.4	20743.7	20411.3
55°	19177.9	19276.8	20059.7	21367.4	23032.2	23834.3	23499.1	22694.2	22474.5	21999.2	21636.6
57.5°	17466.4	17609.3	18749.3	20441.6	22680.5	24304.1	24669.4	24155.7	23944.2	23260.1	22881.1
60°	15232.9	15461.0	16765.8	18886.6	21784.9	24301.3	25732.6	25592.5	25416.6	24501.8	24106.3
62.5°	12705.6	12969.3	14224.7	16688.9	20219.0	23611.8	26397.3	26795.8	26705.0	25647.4	25141.9
65°	9757.9	9939.2	11189.1	13845.6	17782.3	22131.1	26474.3	27617.1	27633.6	26518.3	25683.1
67.5°	6497.1	7019.0	8104.1	10389.7	14518.7	19710.9	25798.5	27751.8	27911.1	26817.7	25411.2
70°	3170.2	3857.0	4920.1	6752.5	10389.7	15999.4	24032.0	26647.3	27001.8	25944.1	23790.4
72.5°	1315.9	1538.4	2118.1	3332.3	5964.1	10796.3	20482.8	23653.0	24309.5	22988.2	20002.1
75°	887.3	961.6	1211.4	1708.8	2717.0	5324.0	14771.5	17636.8	18694.4	17362.0	14191.7
77.5°	684.1	730.7	881.8	1195.0	1615.3	2013.6	7906.3	10628.7	11175.4	10345.7	7384.3
80°	538.4	574.2	659.3	870.8	1145.5	1076.9	2694.9	4815.8	5131.7	4304.8	2373.5
82.5°	467.0	480.7	472.5	590.6	761.0	629.1	884.6	1777.5	1961.4	1423.0	774.7
85°	337.9	376.4	392.9	365.4	403.8	318.7	362.6	629.1	692.3	618.1	436.8
87.5°	137.4	203.3	250.0	236.3	148.3	90.6	112.6	184.1	211.6	230.7	142.9
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°	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2	5799.2
2.5°	5804.8	5823.9	5837.7	5854.2	5865.2	5881.7	5914.7	5933.8	5936.6	5950.3	5947.6
5°	5857.0	5884.4	5914.7	5958.5	6008.0	6049.2	6112.4	6156.4	6172.9	6186.6	6183.8
7.5°	5969.6	6008.0	6063.0	6139.9	6211.3	6266.2	6343.2	6395.4	6447.6	6466.8	6469.6
10°	6137.2	6192.1	6271.8	6376.1	6453.1	6524.5	6604.2	6648.2	6700.3	6722.3	6733.2
12.5°	6345.9	6403.6	6508.0	6653.6	6725.0	6774.4	6801.9	6790.9	6801.9	6821.2	6826.7
15°	6584.9	6648.2	6766.2	6922.8	6972.3	6928.3	6867.9	6813.0	6804.7	6810.2	6829.4
17.5°	6867.9	6914.5	7051.9	7183.8	7148.0	6966.8	6834.9	6747.0	6703.1	6689.4	6708.5
20°	7263.5	7263.5	7376.1	7458.5	7219.5	6911.9	6705.8	6563.0	6472.3	6433.8	6425.6
22.5°	7744.2	7700.3	7771.7	7714.0	7205.7	6758.0	6472.3	6225.0	6087.7	6032.7	6024.5
25°	8354.1	8301.9	8282.6	7925.5	7106.8	6513.5	6049.2	5749.8	5628.9	5598.7	5604.2
27.5°	9274.4	9142.5	8892.5	8040.9	6925.6	6128.9	5554.8	5277.3	5208.6	5211.3	5219.6
30°	10499.6	10235.9	9623.3	8060.2	6628.9	5584.9	5049.3	4851.4	4818.5	4832.3	4878.9
32.5°	11634.2	11384.2	10370.5	7972.2	6172.9	5052.0	4596.0	4464.1	4414.7	4431.2	4453.1
35°	12524.3	12455.6	11062.8	7848.6	5612.4	4552.0	4189.4	4076.7	3980.6	3958.7	3975.2
37.5°	13364.9	13337.4	11582.0	7675.5	5057.6	4197.7	3862.5	3714.2	3574.1	3497.1	3499.9
40°	14288.0	14260.5	11922.6	7409.1	4565.8	3890.0	3568.5	3373.5	3200.5	3060.3	3074.1
42.5°	15326.3	15164.3	12084.7	7027.2	4148.2	3629.0	3329.5	3065.8	2837.8	2708.7	2717.0
45°	16461.0	16095.6	12082.0	6540.9	3796.6	3390.0	3074.1	2700.5	2488.9	2368.1	2362.5
47.5°	17664.2	16985.7	11933.7	6002.5	3455.9	3126.2	2678.4	2392.8	2252.6	2178.5	2162.0
50°	18905.9	17818.0	11680.9	5384.4	3107.0	2826.8	2431.2	2236.1	2129.0	2060.4	2035.6
52.5°	20073.4	18573.5	11376.0	4683.9	2752.6	2535.6	2321.3	2170.2	2057.6	1980.7	1947.7
55°	21158.6	19224.6	10944.6	3966.9	2464.2	2340.6	2269.1	2142.8	2013.6	1923.0	1887.3
57.5°	22122.8	19647.6	10200.2	3293.8	2258.2	2206.0	2214.2	2096.1	1947.7	1870.8	1821.3
60°	22924.9	19958.1	9098.6	2670.2	2090.6	2074.1	2129.0	2008.2	1835.1	1747.2	1708.8
62.5°	23405.8	19952.5	7746.9	2186.7	1947.7	1953.2	2016.4	1898.3	1722.5	1640.0	1615.3
65°	23364.6	19463.6	6263.5	1870.8	1810.4	1815.9	1898.3	1777.5	1629.0	1579.6	1576.9
67.5°	22537.6	18271.3	4804.8	1664.8	1659.3	1684.0	1780.1	1695.0	1571.3	1565.9	1574.1
70°	20298.7	15796.2	3461.4	1500.0	1502.6	1538.4	1664.8	1642.8	1541.2	1552.2	1549.4
72.5°	16276.9	12043.5	2324.1	1326.9	1329.6	1387.3	1554.9	1601.6	1511.0	1656.5	1678.5
75°	10840.3	7510.7	1494.4	1142.8	1145.5	1219.8	1458.8	1521.9	1428.5	1651.1	1664.8
77.5°	5208.6	3376.2	1082.4	961.6	961.6	1030.2	1261.0	1362.6	1217.0	1282.9	1175.8
80°	1799.4	1269.2	851.6	774.7	758.2	804.9	1063.1	1181.3	1049.4	967.0	906.5
82.5°	708.8	659.3	684.1	601.7	546.6	576.9	826.9	975.3	771.9	697.8	695.1
85°	406.6	428.6	483.5	398.3	315.9	354.3	607.1	700.5	582.4	513.7	524.7
87.5°	109.9	151.1	222.5	206.0	142.9	151.1	288.4	387.3	335.2	258.2	266.5
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)