

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: P885349

Luminaire Tested: **NAV-SB6C-830-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39801 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

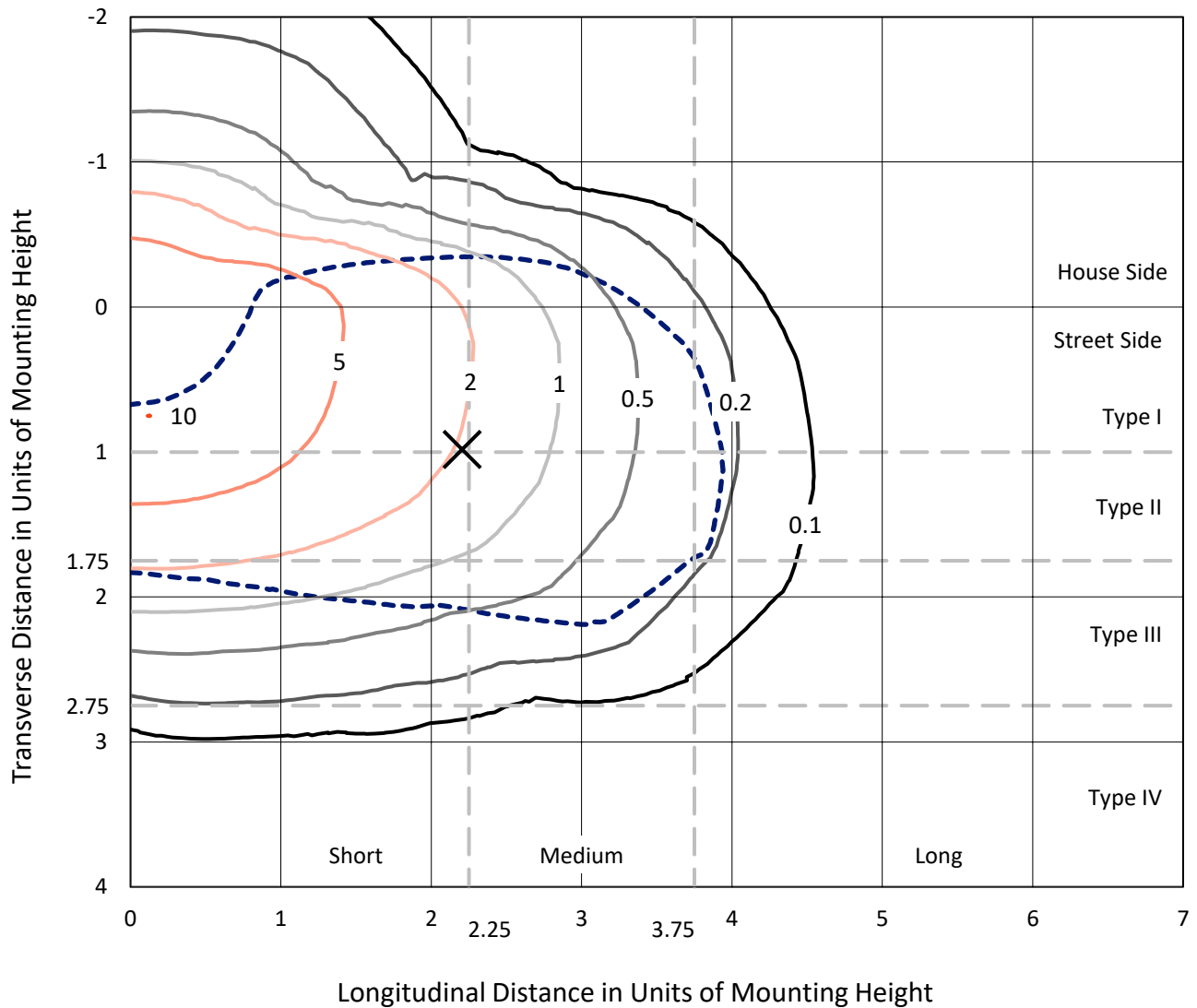
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

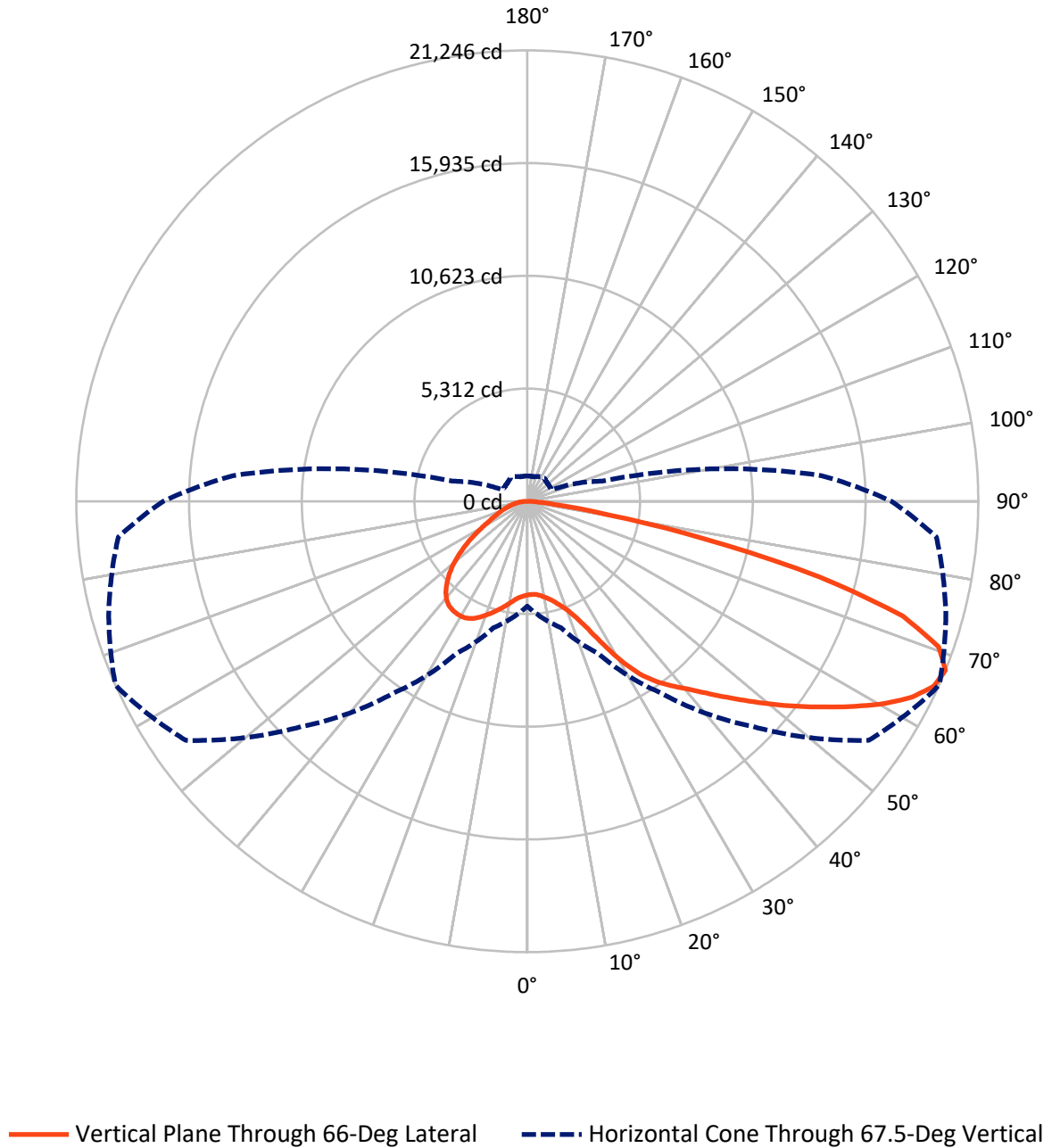
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9896.4	0.0	9896.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	29904.6	0.0	29904.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	39801.0	0.0	39801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	1.1
10°-20°	1446.0	3.6
20°-30°	2787.1	7.0
30°-40°	4886.9	12.3
40°-50°	7265.2	18.3
50°-60°	9209.3	23.1
60°-70°	9011.1	22.6
70°-80°	4298.4	10.8
80°-90°	459.4	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°	39801.0	100.0
0°-180°	39801.0	100.0

Coefficient of Utilization



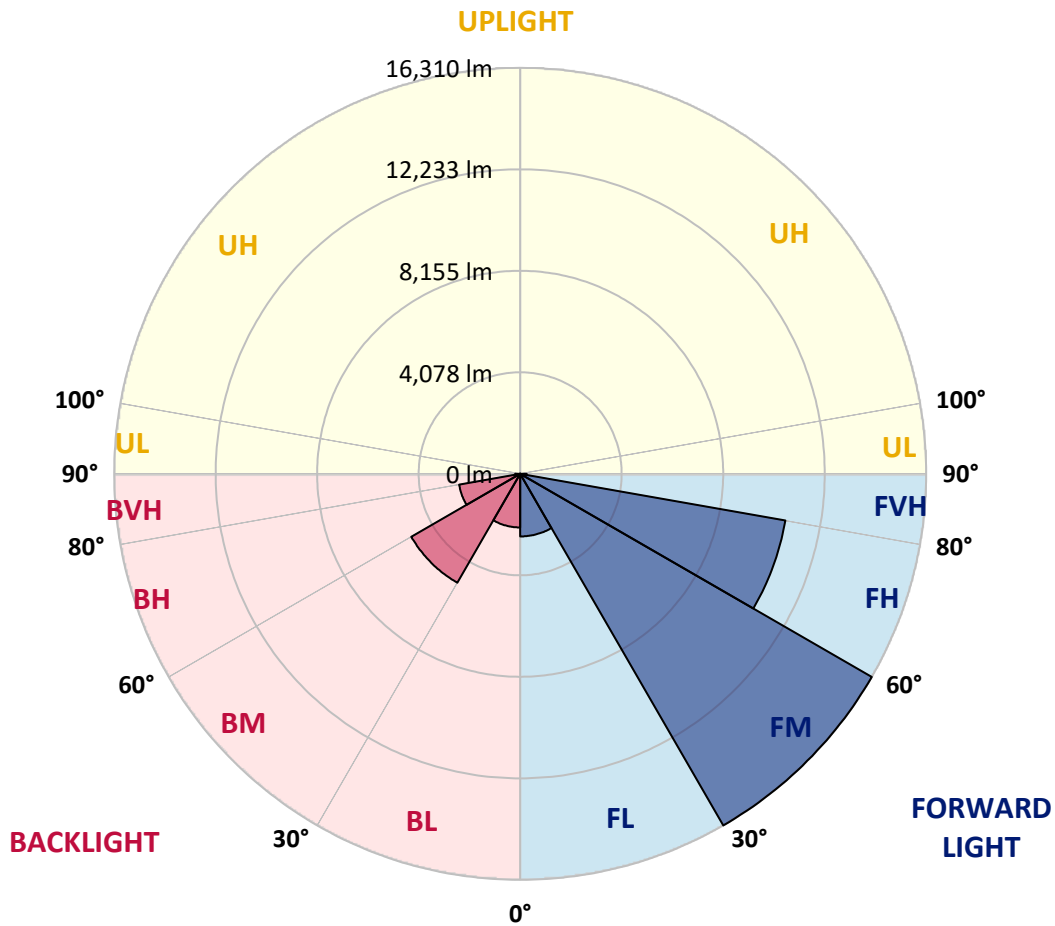
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2515.0	6.3			
FM (30°-60°)	16310.1	41.0			
FH (60°-80°)	10819.0	27.2			G4/12000
FVH (80°-90°)	260.4	0.7			G3/500
BL (0°-30°)	2155.8	5.4	B3/2500		
BM (30°-60°)	5051.2	12.7	B4/8500		
BH (60°-80°)	2490.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	198.9	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°	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5
2.5°	4368.5	4393.5	4387.3	4376.8	4374.7	4378.9	4385.2	4391.5	4389.4	4399.8	4416.5
5°	4355.9	4381.0	4378.9	4378.9	4387.3	4404.0	4414.5	4424.9	4414.5	4427.0	4450.0
7.5°	4364.3	4383.1	4391.5	4399.8	4420.7	4452.1	4477.2	4500.2	4487.6	4502.3	4531.6
10°	4470.9	4485.6	4493.9	4493.9	4508.6	4544.1	4569.2	4611.0	4600.6	4623.6	4661.2
12.5°	4665.4	4680.0	4680.0	4671.7	4682.1	4705.1	4713.5	4759.5	4740.7	4778.3	4816.0
15°	4903.8	4933.1	4910.1	4895.4	4899.6	4922.6	4920.5	4956.1	4937.2	4968.6	5002.1
17.5°	5167.3	5204.9	5167.3	5165.2	5156.8	5181.9	5184.0	5215.4	5181.9	5204.9	5227.9
20°	5478.9	5531.1	5499.8	5510.2	5491.4	5501.9	5512.3	5558.3	5506.0	5522.8	5516.5
22.5°	5918.0	5980.7	5947.3	5987.0	5974.5	5966.1	5964.0	6045.6	5964.0	5970.3	5909.6
25°	6557.9	6633.2	6574.6	6629.0	6629.0	6656.2	6687.6	6792.1	6656.2	6616.5	6459.6
27.5°	7503.1	7578.4	7463.4	7496.8	7486.4	7553.3	7519.8	7779.1	7632.8	7567.9	7252.2
30°	8640.7	8774.5	8557.1	8548.7	8538.2	8644.9	8693.0	8864.5	8716.0	8651.2	8270.6
32.5°	9870.3	10010.4	9751.1	9675.8	9636.1	9700.9	9661.2	9799.2	9696.7	9596.4	9125.9
35°	11171.0	11309.0	11062.3	10915.9	10757.0	10621.0	10478.8	10514.4	10418.2	10265.5	9778.3
37.5°	12400.6	12653.7	12392.3	12235.4	11942.7	11677.1	11279.8	11114.6	11024.6	10884.5	10393.1
40°	13653.2	13797.5	13598.9	13465.0	13147.2	12731.0	12095.3	11746.1	11624.8	11488.9	11072.7
42.5°	14575.4	14713.5	14606.8	14514.8	14266.0	13782.9	12961.1	12524.0	12348.4	12195.7	11842.3
45°	15307.4	15409.8	15342.9	15376.4	15269.7	14801.3	13858.2	13358.4	13176.5	12990.3	12712.2
47.5°	15602.2	15710.9	15817.6	16016.3	16198.2	15853.1	14822.2	14261.8	14069.4	13879.1	13605.1
50°	15568.8	15679.6	15989.1	16411.5	16976.1	16861.1	15838.5	15223.7	15046.0	14828.5	14575.4
52.5°	15301.1	15426.6	15823.9	16526.5	17425.7	17616.0	16873.6	16217.0	16049.7	15790.4	15537.4
55°	14598.4	14673.7	15269.7	16265.1	17532.4	18143.0	17887.9	17275.1	17107.9	16746.1	16470.0
57.5°	13295.6	13404.4	14272.2	15560.4	17264.7	18500.6	18778.7	18387.6	18226.6	17705.9	17417.3
60°	11595.5	11769.1	12762.4	14376.8	16583.0	18498.5	19588.0	19481.3	19347.5	18651.1	18350.0
62.5°	9671.7	9872.4	10828.1	12703.8	15391.0	17973.6	20094.0	20397.3	20328.2	19523.1	19138.4
65°	7427.8	7565.8	8517.3	10539.5	13536.1	16846.5	20152.6	21022.5	21035.1	20186.1	19550.3
67.5°	4945.6	5342.9	6168.9	7908.8	11051.8	15004.1	19638.2	21125.0	21246.3	20414.0	19343.3
70°	2413.2	2936.0	3745.3	5140.1	7908.8	12179.0	18293.5	20284.3	20554.1	19749.0	18109.5
72.5°	1001.7	1171.1	1612.3	2536.6	4539.9	8218.3	15591.8	18005.0	18504.8	17498.9	15225.8
75°	675.4	731.9	922.2	1300.7	2068.2	4052.7	11244.2	13425.3	14230.4	13216.2	10803.0
77.5°	520.7	556.3	671.3	909.7	1229.6	1532.8	6018.4	8090.7	8506.9	7875.3	5621.1
80°	409.9	437.1	501.9	662.9	872.0	819.7	2051.4	3665.8	3906.3	3276.9	1806.8
82.5°	355.5	366.0	359.7	449.6	579.3	478.9	673.4	1353.0	1493.1	1083.2	589.7
85°	257.2	286.5	299.0	278.1	307.4	242.6	276.0	478.9	527.0	470.5	332.5
87.5°	104.6	154.7	190.3	179.8	112.9	69.0	85.7	140.1	161.0	175.7	108.7
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°	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5	4414.5
2.5°	4418.6	4433.3	4443.7	4456.3	4464.6	4477.2	4502.3	4516.9	4519.0	4529.5	4527.4
5°	4458.4	4479.3	4502.3	4535.7	4573.4	4604.8	4652.9	4686.3	4698.9	4709.3	4707.2
7.5°	4544.1	4573.4	4615.2	4673.8	4728.1	4770.0	4828.5	4868.2	4908.0	4922.6	4924.7
10°	4671.7	4713.5	4774.1	4853.6	4912.2	4966.5	5027.2	5060.6	5100.4	5117.1	5125.5
12.5°	4830.6	4874.5	4954.0	5064.8	5119.2	5156.8	5177.7	5169.4	5177.7	5192.4	5196.6
15°	5012.5	5060.6	5150.5	5269.7	5307.4	5273.9	5227.9	5186.1	5179.8	5184.0	5198.6
17.5°	5227.9	5263.5	5368.0	5468.4	5441.2	5303.2	5202.8	5135.9	5102.5	5092.0	5106.6
20°	5529.0	5529.0	5614.8	5677.5	5495.6	5261.4	5104.5	4995.8	4926.8	4897.5	4891.2
22.5°	5895.0	5861.5	5915.9	5872.0	5485.1	5144.3	4926.8	4738.6	4634.0	4592.2	4585.9
25°	6359.2	6319.5	6304.9	6033.0	5409.9	4958.2	4604.8	4376.8	4284.8	4261.8	4266.0
27.5°	7059.8	6959.4	6769.1	6120.9	5271.8	4665.4	4228.3	4017.1	3964.9	3966.9	3973.2
30°	7992.4	7791.7	7325.4	6135.5	5046.0	4251.3	3843.6	3693.0	3667.9	3678.4	3713.9
32.5°	8856.1	8665.8	7894.2	6068.6	4698.9	3845.7	3498.5	3398.1	3360.5	3373.1	3389.8
35°	9533.6	9481.4	8421.1	5974.5	4272.3	3465.1	3189.0	3103.3	3030.1	3013.4	3025.9
37.5°	10173.5	10152.6	8816.4	5842.7	3849.8	3195.3	2940.2	2827.3	2720.6	2662.1	2664.1
40°	10876.2	10855.3	9075.7	5639.9	3475.5	2961.1	2716.4	2568.0	2436.2	2329.6	2340.0
42.5°	11666.6	11543.3	9199.1	5349.2	3157.7	2762.4	2534.5	2333.7	2160.2	2061.9	2068.2
45°	12530.3	12252.2	9197.0	4979.1	2890.0	2580.5	2340.0	2055.6	1894.6	1802.6	1798.4
47.5°	13446.2	12929.7	9084.0	4569.2	2630.7	2379.7	2038.9	1821.4	1714.8	1658.3	1645.7
50°	14391.4	13563.3	8891.6	4098.7	2365.1	2151.8	1850.7	1702.2	1620.7	1568.4	1549.6
52.5°	15280.2	14138.4	8659.5	3565.4	2095.4	1930.1	1767.0	1652.0	1566.3	1507.7	1482.6
55°	16106.2	14634.0	8331.2	3019.6	1875.8	1781.7	1727.3	1631.1	1532.8	1463.8	1436.6
57.5°	16840.2	14956.0	7764.5	2507.3	1718.9	1679.2	1685.5	1595.6	1482.6	1424.1	1386.4
60°	17450.8	15192.3	6926.0	2032.6	1591.4	1578.8	1620.7	1528.6	1396.9	1330.0	1300.7
62.5°	17816.8	15188.2	5897.1	1664.6	1482.6	1486.8	1534.9	1445.0	1311.2	1248.4	1229.6
65°	17785.4	14815.9	4767.9	1424.1	1378.1	1382.3	1445.0	1353.0	1240.1	1202.4	1200.3
67.5°	17155.9	13908.4	3657.5	1267.2	1263.1	1281.9	1355.1	1290.3	1196.1	1192.0	1198.2
70°	15451.6	12024.2	2634.9	1141.8	1143.9	1171.1	1267.2	1250.5	1173.1	1181.5	1179.4
72.5°	12390.2	9167.7	1769.1	1010.0	1012.1	1056.0	1183.6	1219.2	1150.1	1261.0	1277.7
75°	8251.8	5717.3	1137.6	869.9	872.0	928.5	1110.4	1158.5	1087.4	1256.8	1267.2
77.5°	3964.9	2570.0	823.9	731.9	731.9	784.2	959.8	1037.2	926.4	976.6	895.0
80°	1369.7	966.1	648.3	589.7	577.2	612.7	809.3	899.2	798.8	736.1	690.1
82.5°	539.5	501.9	520.7	458.0	416.1	439.1	629.4	742.4	587.6	531.2	529.1
85°	309.5	326.2	368.0	303.2	240.5	269.8	462.1	533.2	443.3	391.0	399.4
87.5°	83.6	115.0	169.4	156.8	108.7	115.0	219.6	294.9	255.1	196.6	202.8
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)