

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: P884604

Luminaire Tested: **NAV-SB5C-730-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5C-730-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

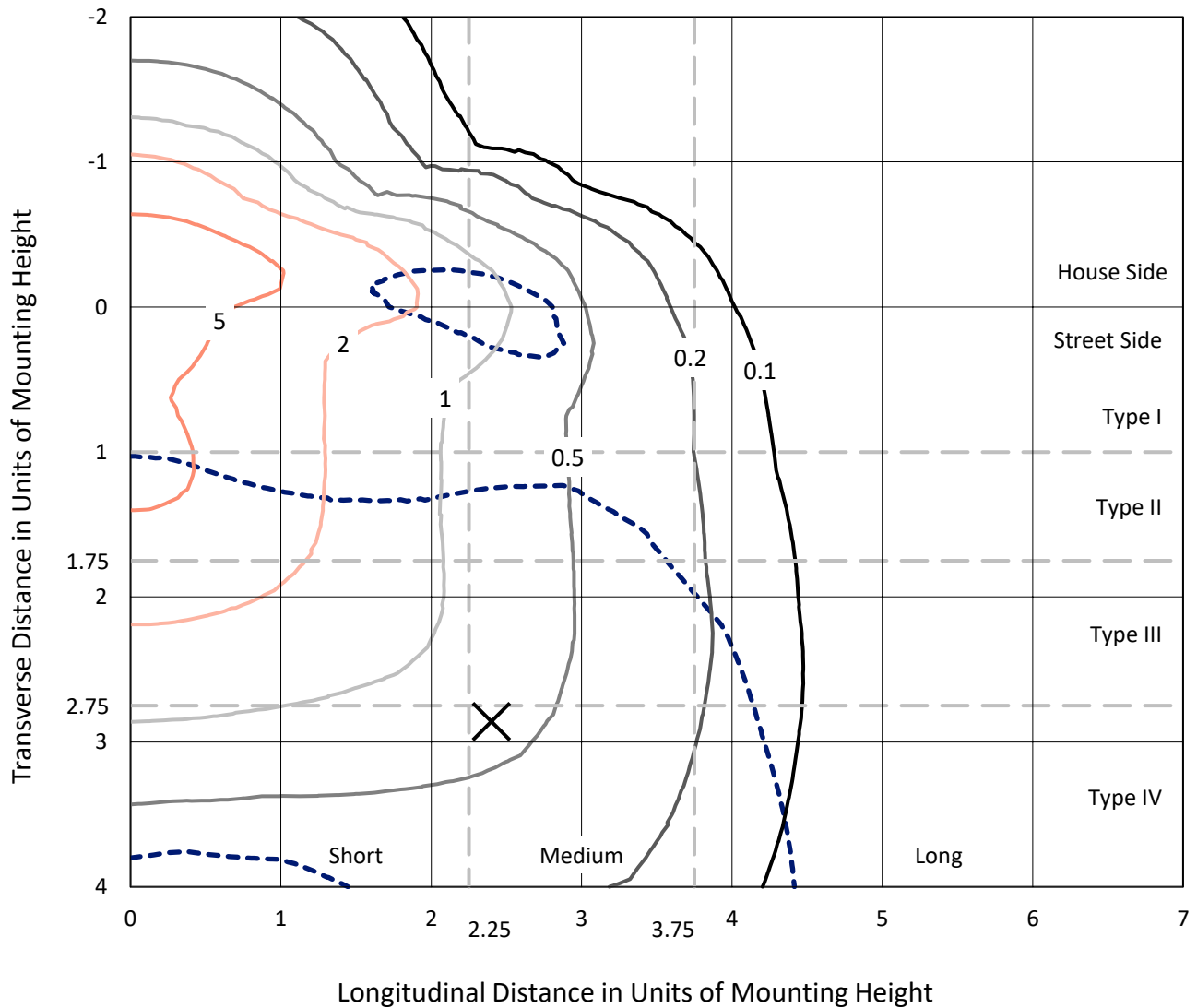
Lumens per Lamp: N/A  
Luminaire Lumens: 37082 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
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

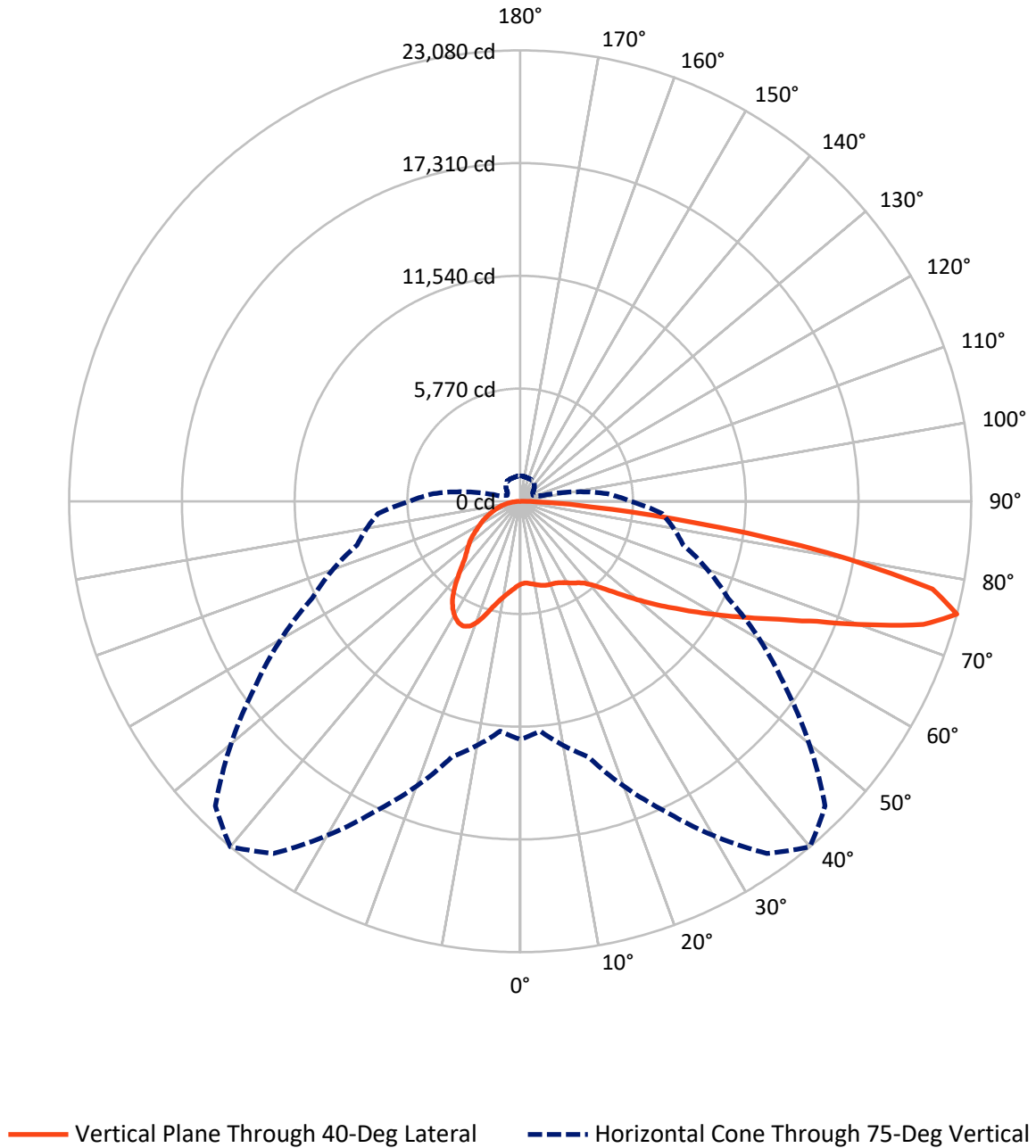
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11489.2	0.0	11489.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	25592.8	0.0	25592.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	37082.0	0.0	37082.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.3	1.1
10°-20°	1421.1	3.8
20°-30°	2594.8	7.0
30°-40°	3680.2	9.9
40°-50°	4969.4	13.4
50°-60°	6685.1	18.0
60°-70°	8485.0	22.9
70°-80°	7700.6	20.8
80°-90°	1122.5	3.0
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°	37082.0	100.0
0°-180°	37082.0	100.0

**Coefficient of Utilization**



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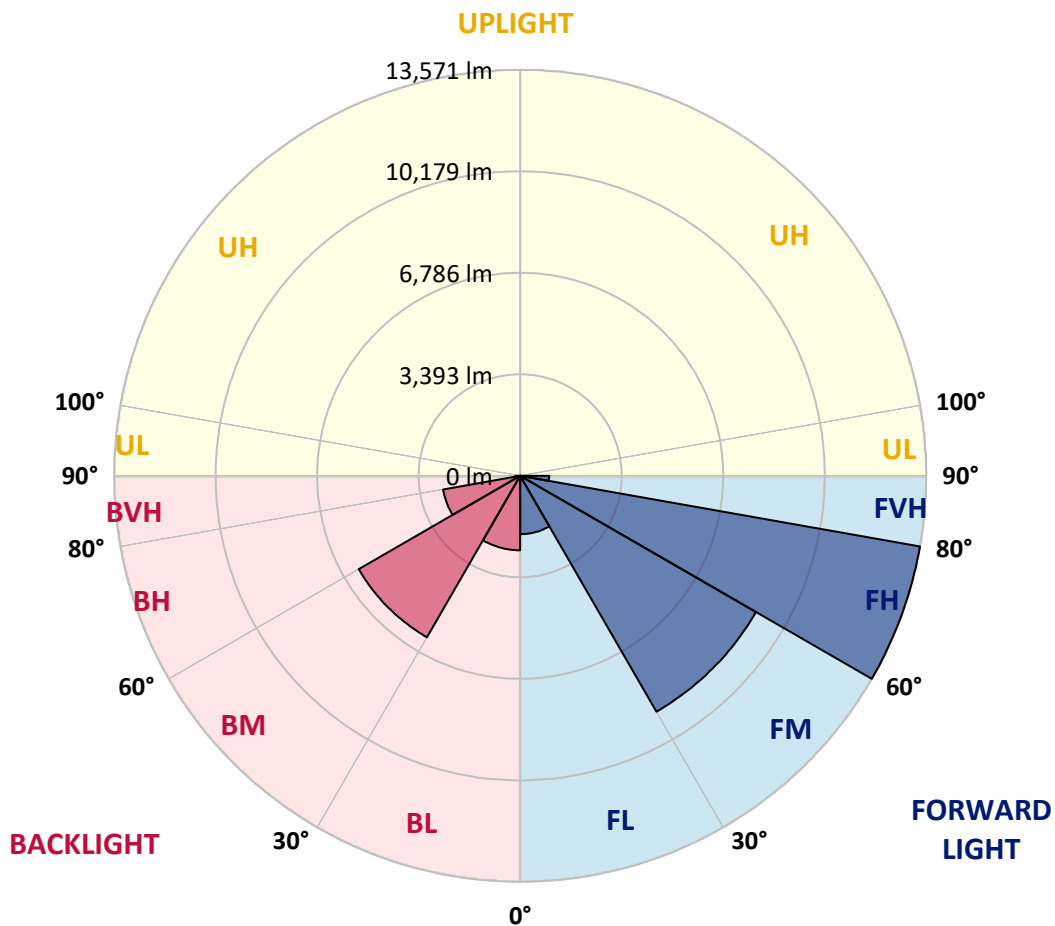
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.5	5.3			
FM (30°-60°)	9102.8	24.5			
FH (60°-80°)	13571.4	36.6			G5
FVH (80°-90°)	968.0	2.6			G5
BL (0°-30°)	2488.7	6.7	B3/2500		
BM (30°-60°)	6231.9	16.8	B4/8500		
BH (60°-80°)	2614.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	154.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4
2.5°	4175.5	4199.1	4193.2	4185.3	4185.3	4187.3	4185.3	4199.1	4212.8	4226.6	4248.2
5°	4218.7	4242.3	4230.5	4220.7	4212.8	4210.9	4205.0	4203.0	4210.9	4228.6	4258.1
7.5°	4303.3	4326.9	4309.2	4291.5	4275.8	4267.9	4260.0	4248.2	4242.3	4252.2	4293.5
10°	4397.7	4421.3	4399.7	4368.2	4342.6	4332.8	4324.9	4313.1	4305.3	4311.2	4356.4
12.5°	4492.1	4515.7	4486.2	4443.0	4409.5	4403.6	4393.8	4389.9	4387.9	4385.9	4431.2
15°	4580.6	4600.3	4562.9	4511.8	4476.4	4466.6	4456.7	4462.6	4472.5	4484.3	4535.4
17.5°	4649.5	4669.1	4614.1	4547.2	4513.8	4509.8	4503.9	4523.6	4551.1	4580.6	4643.6
20°	4712.4	4732.1	4661.3	4570.8	4531.5	4531.5	4533.4	4574.7	4614.1	4657.3	4743.9
22.5°	4800.9	4816.6	4730.1	4606.2	4549.2	4553.1	4568.8	4610.1	4659.3	4718.3	4838.3
25°	4932.7	4944.5	4838.3	4673.1	4608.2	4620.0	4633.7	4653.4	4700.6	4769.4	4930.7
27.5°	5145.1	5154.9	5015.3	4791.1	4692.7	4712.4	4732.1	4718.3	4739.9	4798.9	5005.5
30°	5444.0	5449.9	5272.9	4976.0	4836.3	4846.1	4850.1	4793.0	4751.7	4798.9	5058.6
32.5°	5798.1	5796.1	5585.7	5200.2	4999.6	4989.7	4956.3	4844.2	4747.8	4789.1	5105.8
35°	6346.8	6325.2	6053.7	5514.8	5184.4	5123.5	5044.8	4901.2	4767.5	4779.3	5147.1
37.5°	7255.4	7188.6	6812.9	6030.1	5459.8	5304.4	5188.4	4993.7	4810.7	4775.3	5196.2
40°	8280.1	8195.6	7782.5	6736.2	5872.8	5623.0	5436.2	5125.4	4881.5	4793.0	5269.0
42.5°	9495.6	9375.6	8931.1	7568.2	6396.0	6034.1	5752.8	5292.6	4985.8	4850.1	5367.3
45°	10988.4	10829.1	10199.7	8506.3	7054.8	6573.0	6197.3	5546.3	5145.1	4960.2	5514.8
47.5°	12496.9	12536.3	11641.4	9580.2	7845.5	7237.7	6753.9	5927.9	5377.2	5137.2	5752.8
50°	14099.8	14127.4	13075.1	10770.1	8742.3	7989.1	7379.4	6354.7	5699.7	5389.0	6108.8
52.5°	15350.7	15354.6	14377.2	12015.1	9676.6	8815.1	8054.0	6842.4	6073.4	5723.3	6582.8
55°	16133.5	16123.7	15289.7	13193.2	10750.4	9682.5	8801.3	7397.1	6529.7	6116.7	7178.7
57.5°	16701.9	16672.4	15919.1	14206.0	11895.1	10707.1	9647.1	8026.4	7068.6	6584.8	7963.5
60°	16918.2	16900.5	16345.9	15081.3	13098.7	11840.0	10622.6	8730.5	7680.3	7137.4	8972.4
62.5°	17000.8	17034.3	16764.8	15928.9	14387.0	13094.8	11694.5	9572.3	8368.6	7762.9	10036.5
65°	17291.9	17352.9	17297.8	17038.2	15842.4	14564.0	13116.5	10573.4	9120.0	8433.5	11147.7
67.5°	17868.2	17929.2	17952.8	18365.8	17620.4	16395.1	14890.5	11820.3	9999.1	9129.8	11983.6
70°	17854.4	17836.7	18253.7	19421.9	19846.8	18930.3	17282.1	13354.4	11047.4	9708.0	12089.8
72.5°	16251.5	16109.9	17095.2	19410.1	21699.5	21577.5	20202.8	15333.0	11952.1	9778.8	10490.8
75°	12192.1	11814.4	13555.0	17492.5	22008.3	23080.2	22059.4	16560.3	11737.7	8640.1	7300.7
77.5°	5213.9	4834.3	6885.7	12949.3	19697.3	21575.6	20356.2	14448.0	9369.7	5713.5	3585.4
80°	1364.9	1363.0	2080.9	5870.8	13395.7	15932.9	13977.9	9330.4	5353.6	2041.5	989.3
82.5°	564.5	550.7	765.1	2283.4	6545.4	8941.0	7296.8	4161.7	1933.3	552.7	328.5
85°	210.4	208.5	371.7	788.7	2309.0	3687.7	2668.9	1064.0	481.9	269.4	147.5
87.5°	59.0	57.0	80.6	273.4	562.5	853.6	456.3	175.0	135.7	106.2	43.3
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°	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4	4240.4
2.5°	4254.1	4264.0	4281.7	4295.4	4313.1	4332.8	4360.3	4378.1	4395.8	4407.6	4399.7
5°	4271.8	4293.5	4338.7	4384.0	4437.1	4486.2	4543.3	4584.6	4618.0	4627.8	4631.8
7.5°	4311.2	4346.6	4423.3	4500.0	4584.6	4665.2	4747.8	4818.6	4875.6	4897.3	4899.2
10°	4380.0	4427.2	4535.4	4643.6	4755.7	4879.6	4985.8	5088.1	5168.7	5202.1	5204.1
12.5°	4466.6	4525.6	4667.2	4816.6	4972.0	5143.1	5280.8	5406.7	5507.0	5552.2	5552.2
15°	4578.7	4655.4	4836.3	5036.9	5265.1	5503.0	5678.1	5817.7	5929.8	5984.9	5981.0
17.5°	4700.6	4802.9	5031.0	5333.9	5660.4	5973.1	6177.7	6279.9	6396.0	6449.1	6447.1
20°	4818.6	4944.5	5271.0	5711.5	6146.2	6478.6	6643.8	6671.3	6679.2	6685.1	6700.8
22.5°	4940.5	5109.7	5571.9	6187.5	6653.6	6883.7	6907.3	6789.3	6624.1	6547.4	6569.0
25°	5074.3	5298.5	5965.2	6712.6	7090.2	7117.8	6936.8	6649.7	6337.0	6193.4	6215.0
27.5°	5204.1	5516.8	6437.3	7214.1	7404.9	7163.0	6773.6	6366.5	5988.8	5837.4	5855.1
30°	5333.9	5766.6	6958.5	7652.7	7548.5	7050.9	6515.9	6061.6	5682.0	5522.7	5540.4
32.5°	5465.7	6057.7	7558.3	7969.4	7522.9	6812.9	6195.4	5719.4	5385.0	5217.9	5239.5
35°	5615.2	6415.6	8126.7	8142.5	7351.8	6462.8	5772.5	5310.3	5019.2	4885.5	4915.0
37.5°	5809.9	6870.0	8628.3	8185.7	7052.9	5949.5	5247.4	4826.5	4586.5	4525.6	4568.8
40°	6051.8	7416.7	9011.8	8116.9	6610.3	5326.0	4673.1	4336.7	4201.0	4214.8	4262.0
42.5°	6366.5	8028.4	9281.2	7939.9	5994.7	4682.9	4169.6	4020.1	4085.0	4140.1	4191.2
45°	6775.6	8663.7	9448.4	7639.0	5298.5	4138.1	3872.6	3908.0	3957.2	3963.1	4002.4
47.5°	7298.7	9306.8	9558.5	7184.6	4588.5	3754.6	3683.8	3691.6	3681.8	3640.5	3672.0
50°	7951.7	9932.2	9656.9	6582.8	3984.7	3514.6	3420.2	3392.7	3257.0	3123.2	3140.9
52.5°	8695.1	10506.5	9698.2	5835.4	3514.6	3314.0	3160.6	2987.5	2733.8	2692.5	2706.3
55°	9521.2	11037.6	9592.0	4916.9	3119.3	3056.4	2824.3	2615.8	2588.3	2552.9	2558.8
57.5°	10508.5	11609.9	9375.6	3892.3	2714.2	2755.5	2529.3	2552.9	2503.7	2448.6	2438.8
60°	11588.3	12201.9	8996.0	2958.0	2295.2	2379.8	2452.6	2450.6	2436.8	2391.6	2375.9
62.5°	12559.9	12591.3	8248.7	2265.7	1927.4	2088.7	2287.4	2285.4	2273.6	2248.0	2238.2
65°	13138.1	12532.3	7001.7	1783.9	1624.6	1848.8	2063.2	2078.9	2080.9	2078.9	2078.9
67.5°	13035.8	11842.0	5290.6	1420.0	1374.8	1604.9	1840.9	1862.5	1878.3	1882.2	1886.1
70°	11879.3	10325.6	3449.7	1132.9	1152.5	1390.5	1630.5	1652.1	1665.9	1681.6	1689.5
72.5°	9259.6	7591.8	1974.6	916.5	957.8	1205.6	1422.0	1447.5	1455.4	1484.9	1496.7
75°	5642.7	4464.6	1066.0	721.8	786.7	1030.6	1215.5	1245.0	1258.7	1294.1	1298.1
77.5°	2682.7	1933.3	607.7	562.5	633.3	841.8	1026.7	1060.1	1022.7	1042.4	1026.7
80°	906.7	717.9	383.5	428.8	483.8	656.9	822.1	855.5	776.9	772.9	765.1
82.5°	316.7	291.1	243.9	285.2	312.7	470.1	621.5	664.8	578.2	576.3	548.7
85°	123.9	118.0	135.7	155.4	186.8	289.1	409.1	430.7	356.0	287.1	283.2
87.5°	25.6	27.5	33.4	35.4	57.0	100.3	147.5	180.9	143.6	121.9	112.1
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)