

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: P885269

Luminaire Tested: **NAV-SB6C-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885269  
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-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36248 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

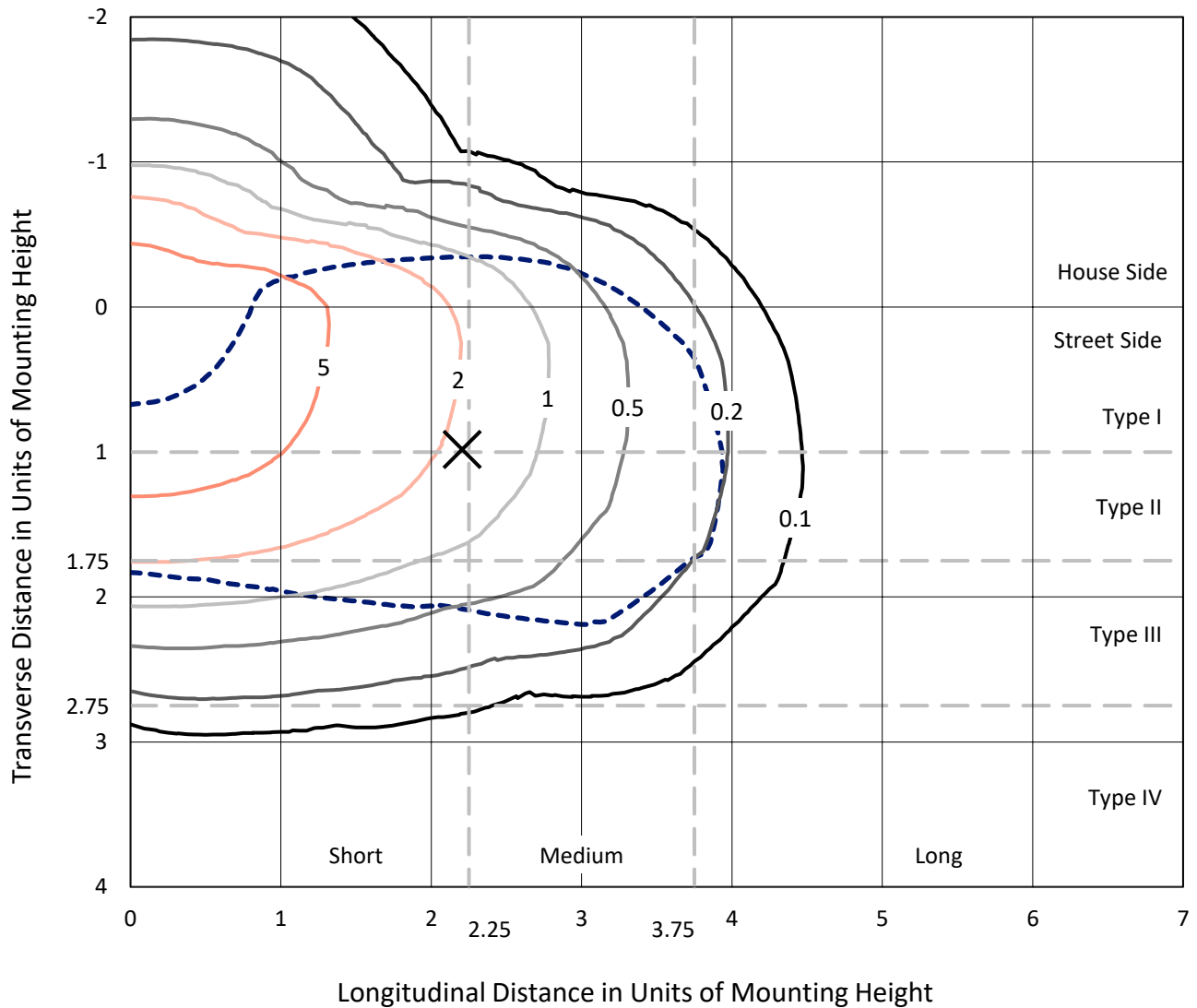
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

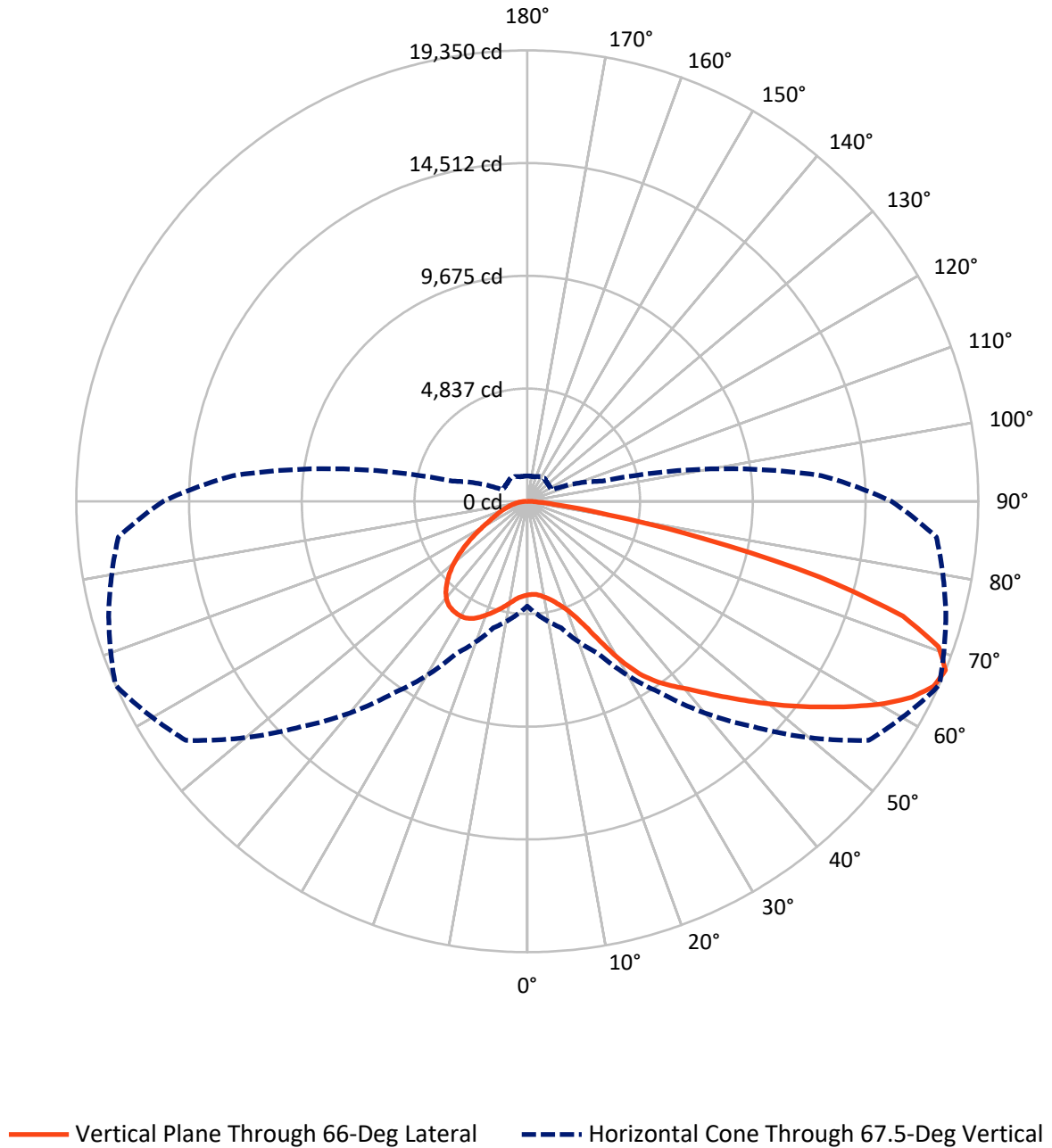
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9013.0	0.0	9013.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	27235.0	0.0	27235.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	36248.0	0.0	36248.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.6	1.1
10°-20°	1316.9	3.6
20°-30°	2538.3	7.0
30°-40°	4450.6	12.3
40°-50°	6616.6	18.3
50°-60°	8387.2	23.1
60°-70°	8206.7	22.6
70°-80°	3914.7	10.8
80°-90°	418.4	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°	36248.0	100.0
0°-180°	36248.0	100.0

**Coefficient of Utilization**



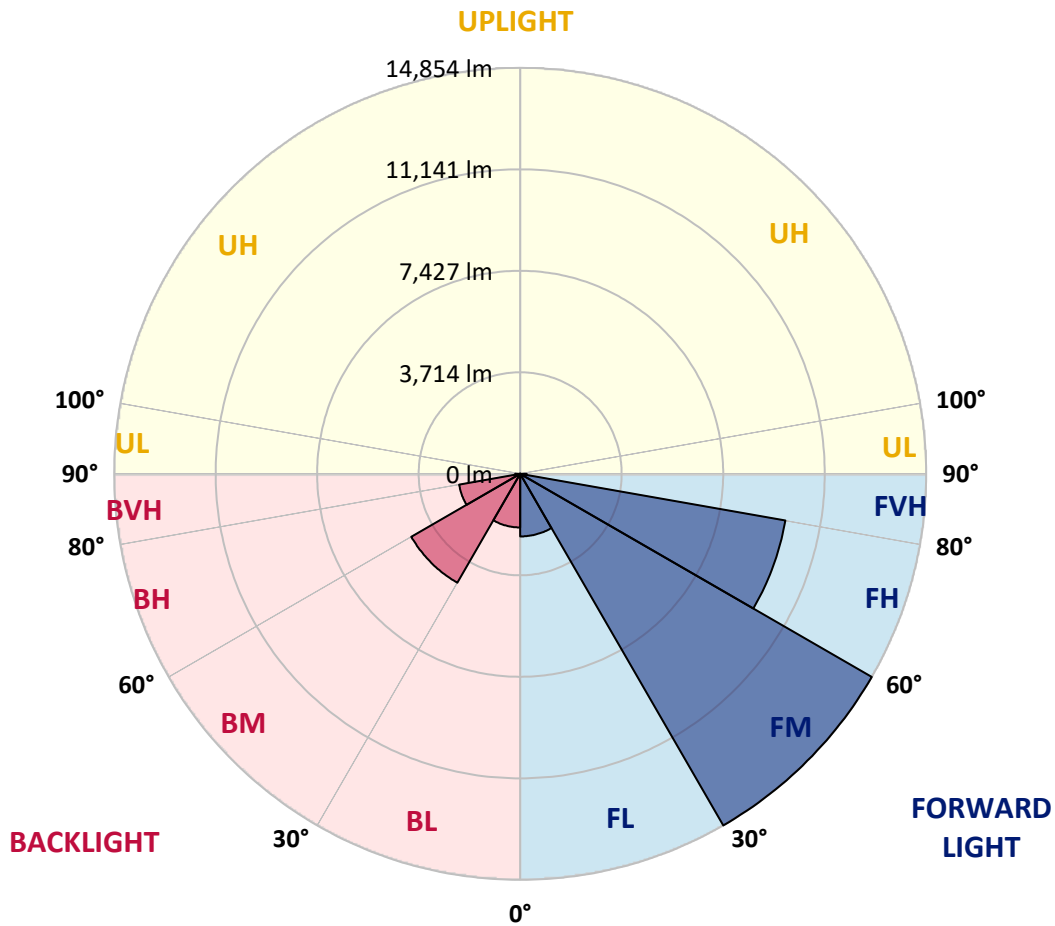
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2290.5	6.3			
FM (30°-60°)	14854.1	41.0			
FH (60°-80°)	9853.2	27.2			G4/12000
FVH (80°-90°)	237.2	0.7			G3/500
BL (0°-30°)	1963.3	5.4	B3/2500		
BM (30°-60°)	4600.3	12.7	B3/5000		
BH (60°-80°)	2268.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	181.2	0.5			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4
2.5°	3978.5	4001.3	3995.6	3986.1	3984.2	3988.0	3993.7	3999.4	3997.5	4007.1	4022.3
5°	3967.1	3989.9	3988.0	3988.0	3995.6	4010.9	4020.4	4029.9	4020.4	4031.8	4052.8
7.5°	3974.7	3991.8	3999.4	4007.1	4026.1	4054.7	4077.5	4098.5	4087.0	4100.4	4127.0
10°	4071.8	4085.1	4092.8	4092.8	4106.1	4138.5	4161.3	4199.4	4189.9	4210.8	4245.1
12.5°	4248.9	4262.3	4262.3	4254.6	4264.2	4285.1	4292.7	4334.6	4317.5	4351.8	4386.0
15°	4466.0	4492.7	4471.7	4458.4	4462.2	4483.2	4481.3	4513.6	4496.5	4525.1	4555.5
17.5°	4706.0	4740.3	4706.0	4704.1	4696.5	4719.3	4721.2	4749.8	4719.3	4740.3	4761.2
20°	4989.8	5037.4	5008.8	5018.3	5001.2	5010.7	5020.2	5062.1	5014.5	5029.8	5024.0
22.5°	5389.7	5446.8	5416.4	5452.6	5441.1	5433.5	5431.6	5505.9	5431.6	5437.3	5382.1
25°	5972.5	6041.0	5987.7	6037.2	6037.2	6062.0	6090.6	6185.8	6062.0	6025.8	5883.0
27.5°	6833.3	6901.9	6797.1	6827.6	6818.1	6879.0	6848.6	7084.7	6951.4	6892.4	6604.8
30°	7869.4	7991.2	7793.2	7785.6	7776.0	7873.2	7917.0	8073.1	7937.9	7878.9	7532.3
32.5°	8989.2	9116.8	8880.6	8812.1	8775.9	8834.9	8798.8	8924.4	8831.1	8739.7	8311.2
35°	10173.8	10299.5	10074.8	9941.4	9796.7	9672.9	9543.4	9575.8	9488.2	9349.2	8905.4
37.5°	11293.6	11524.1	11286.0	11143.2	10876.6	10634.7	10272.8	10122.4	10040.5	9912.9	9465.3
40°	12434.4	12565.8	12384.9	12263.0	11973.5	11594.5	11015.6	10697.5	10587.1	10463.3	10084.3
42.5°	13274.3	13400.0	13302.9	13219.1	12992.4	12552.5	11804.0	11406.0	11246.0	11107.0	10785.1
45°	13940.9	14034.2	13973.3	14003.7	13906.6	13480.0	12621.1	12165.9	12000.2	11830.7	11577.4
47.5°	14209.4	14308.4	14405.6	14586.5	14752.2	14438.0	13499.0	12988.6	12813.4	12640.1	12390.6
50°	14178.9	14279.9	14561.7	14946.5	15460.7	15355.9	14424.6	13864.7	13702.8	13504.8	13274.3
52.5°	13935.2	14049.4	14411.3	15051.2	15870.1	16043.4	15367.3	14769.3	14617.0	14380.8	14150.4
55°	13295.3	13363.8	13906.6	14813.1	15967.3	16523.4	16291.0	15733.0	15580.6	15251.2	14999.8
57.5°	12108.8	12207.8	12998.2	14171.3	15723.5	16849.0	17102.3	16746.2	16599.6	16125.3	15862.5
60°	10560.4	10718.5	11623.1	13093.4	15102.6	16847.1	17839.4	17742.2	17620.4	16986.2	16711.9
62.5°	8808.3	8991.1	9861.5	11569.8	14017.1	16369.1	18300.3	18576.4	18513.6	17780.3	17429.9
65°	6764.8	6890.5	7757.0	9598.6	12327.8	15342.6	18353.6	19145.9	19157.3	18384.1	17805.1
67.5°	4504.1	4866.0	5618.3	7202.8	10065.2	13664.7	17885.1	19239.2	19349.6	18591.6	17616.5
70°	2197.8	2673.9	3410.9	4681.2	7202.8	11091.8	16660.5	18473.6	18719.3	17986.0	16492.9
72.5°	912.3	1066.5	1468.4	2310.1	4134.7	7484.7	14199.9	16397.7	16852.8	15936.8	13866.6
75°	615.2	666.6	839.9	1184.6	1883.5	3690.9	10240.5	12226.8	12960.1	12036.4	9838.6
77.5°	474.2	506.6	611.3	828.5	1119.8	1396.0	5481.1	7368.5	7747.5	7172.3	5119.3
80°	373.3	398.0	457.1	603.7	794.2	746.6	1868.3	3338.6	3557.6	2984.3	1645.5
82.5°	323.8	333.3	327.6	409.5	527.5	436.1	613.2	1232.2	1359.8	986.5	537.1
85°	234.3	260.9	272.3	253.3	280.0	220.9	251.4	436.1	479.9	428.5	302.8
87.5°	95.2	140.9	173.3	163.8	102.8	62.8	78.1	127.6	146.6	160.0	99.0
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°	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4	4020.4
2.5°	4024.2	4037.5	4047.0	4058.5	4066.1	4077.5	4100.4	4113.7	4115.6	4125.1	4123.2
5°	4060.4	4079.4	4100.4	4130.8	4165.1	4193.7	4237.5	4268.0	4279.4	4288.9	4287.0
7.5°	4138.5	4165.1	4203.2	4256.5	4306.1	4344.1	4397.5	4433.7	4469.8	4483.2	4485.1
10°	4254.6	4292.7	4348.0	4420.3	4473.7	4523.2	4578.4	4608.9	4645.1	4660.3	4667.9
12.5°	4399.4	4439.4	4511.7	4612.7	4662.2	4696.5	4715.5	4707.9	4715.5	4728.9	4732.7
15°	4565.1	4608.9	4690.8	4799.3	4833.6	4803.1	4761.2	4723.1	4717.4	4721.2	4734.6
17.5°	4761.2	4793.6	4888.8	4980.2	4955.5	4829.8	4738.4	4677.4	4647.0	4637.4	4650.8
20°	5035.5	5035.5	5113.6	5170.7	5005.0	4791.7	4648.9	4549.8	4487.0	4460.3	4454.6
22.5°	5368.8	5338.3	5387.8	5347.8	4995.5	4685.0	4487.0	4315.6	4220.4	4182.3	4176.6
25°	5791.6	5755.4	5742.0	5494.5	4926.9	4515.6	4193.7	3986.1	3902.3	3881.4	3885.2
27.5°	6429.6	6338.1	6164.8	5574.4	4801.2	4248.9	3850.9	3658.5	3610.9	3612.8	3618.5
30°	7279.0	7096.1	6671.4	5587.8	4595.5	3871.8	3500.5	3363.3	3340.5	3350.0	3382.4
32.5°	8065.5	7892.2	7189.5	5526.8	4279.4	3502.4	3186.2	3094.8	3060.5	3071.9	3087.2
35°	8682.6	8635.0	7669.4	5441.1	3890.9	3155.7	2904.4	2826.3	2759.6	2744.4	2755.8
37.5°	9265.4	9246.3	8029.3	5321.2	3506.2	2910.1	2677.7	2574.9	2477.7	2424.4	2426.3
40°	9905.3	9886.2	8265.5	5136.4	3165.3	2696.8	2473.9	2338.7	2218.7	2121.6	2131.1
42.5°	10625.2	10512.8	8377.9	4871.7	2875.8	2515.8	2308.2	2125.4	1967.3	1877.8	1883.5
45°	11411.7	11158.4	8376.0	4534.6	2632.0	2350.1	2131.1	1872.1	1725.5	1641.7	1637.9
47.5°	12245.9	11775.5	8273.1	4161.3	2395.9	2167.3	1856.9	1658.8	1561.7	1510.3	1498.8
50°	13106.7	12352.5	8097.9	3732.8	2154.0	1959.7	1685.5	1550.3	1476.0	1428.4	1411.2
52.5°	13916.1	12876.3	7886.5	3247.2	1908.3	1757.8	1609.3	1504.5	1426.5	1373.1	1350.3
55°	14668.4	13327.6	7587.5	2750.1	1708.3	1622.6	1573.1	1485.5	1396.0	1333.1	1308.4
57.5°	15336.9	13620.9	7071.4	2283.5	1565.5	1529.3	1535.0	1453.1	1350.3	1297.0	1262.7
60°	15893.0	13836.1	6307.7	1851.2	1449.3	1437.9	1476.0	1392.2	1272.2	1211.3	1184.6
62.5°	16226.3	13832.3	5370.7	1516.0	1350.3	1354.1	1397.9	1316.0	1194.1	1137.0	1119.8
65°	16197.7	13493.3	4342.2	1297.0	1255.1	1258.9	1316.0	1232.2	1129.4	1095.1	1093.2
67.5°	15624.5	12666.8	3331.0	1154.1	1150.3	1167.5	1234.1	1175.1	1089.4	1085.6	1091.3
70°	14072.3	10950.8	2399.7	1039.9	1041.8	1066.5	1154.1	1138.9	1068.4	1076.0	1074.1
72.5°	11284.1	8349.3	1611.2	919.9	921.8	961.8	1077.9	1110.3	1047.5	1148.4	1163.6
75°	7515.1	5206.9	1036.0	792.3	794.2	845.6	1011.3	1055.1	990.3	1144.6	1154.1
77.5°	3610.9	2340.6	750.4	666.6	666.6	714.2	874.2	944.6	843.7	889.4	815.1
80°	1247.4	879.9	590.4	537.1	525.6	558.0	737.0	818.9	727.5	670.4	628.5
82.5°	491.4	457.1	474.2	417.1	379.0	399.9	573.3	676.1	535.2	483.7	481.8
85°	281.9	297.1	335.2	276.2	219.0	245.7	420.9	485.6	403.8	356.1	363.8
87.5°	76.2	104.7	154.3	142.8	99.0	104.7	200.0	268.5	232.3	179.0	184.7
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)