

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: P885279

Luminaire Tested: **NAV-SB6C-727-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885279  
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-727-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

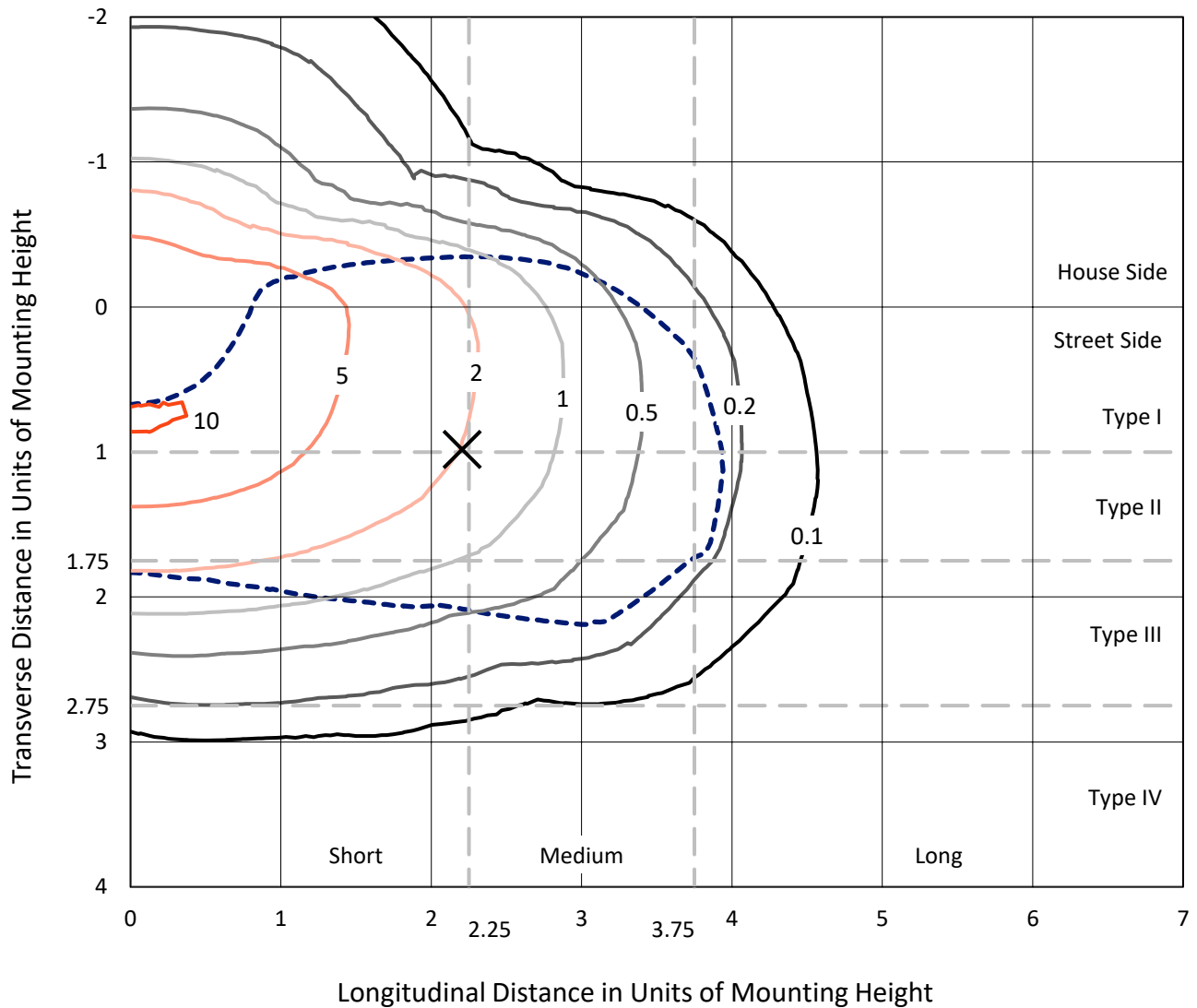
Lumens per Lamp: N/A  
Luminaire Lumens: 41223 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

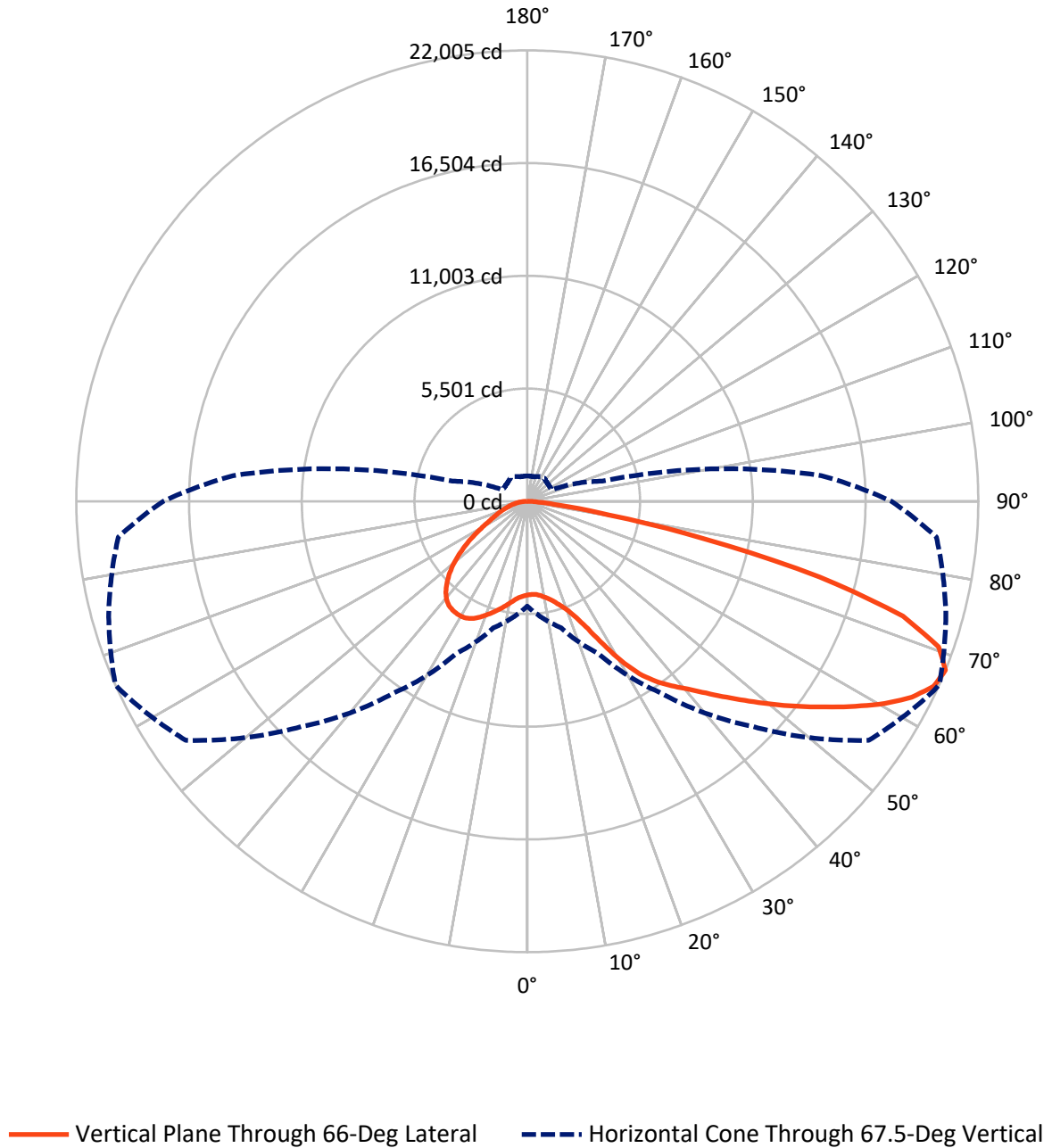
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	10250.0	0.0	10250.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	30973.0	0.0	30973.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	41223.0	0.0	41223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.3	1.1
10°-20°	1497.7	3.6
20°-30°	2886.7	7.0
30°-40°	5061.5	12.3
40°-50°	7524.7	18.3
50°-60°	9538.3	23.1
60°-70°	9333.0	22.6
70°-80°	4451.9	10.8
80°-90°	475.8	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°	41223.0	100.0
0°-180°	41223.0	100.0

**Coefficient of Utilization**



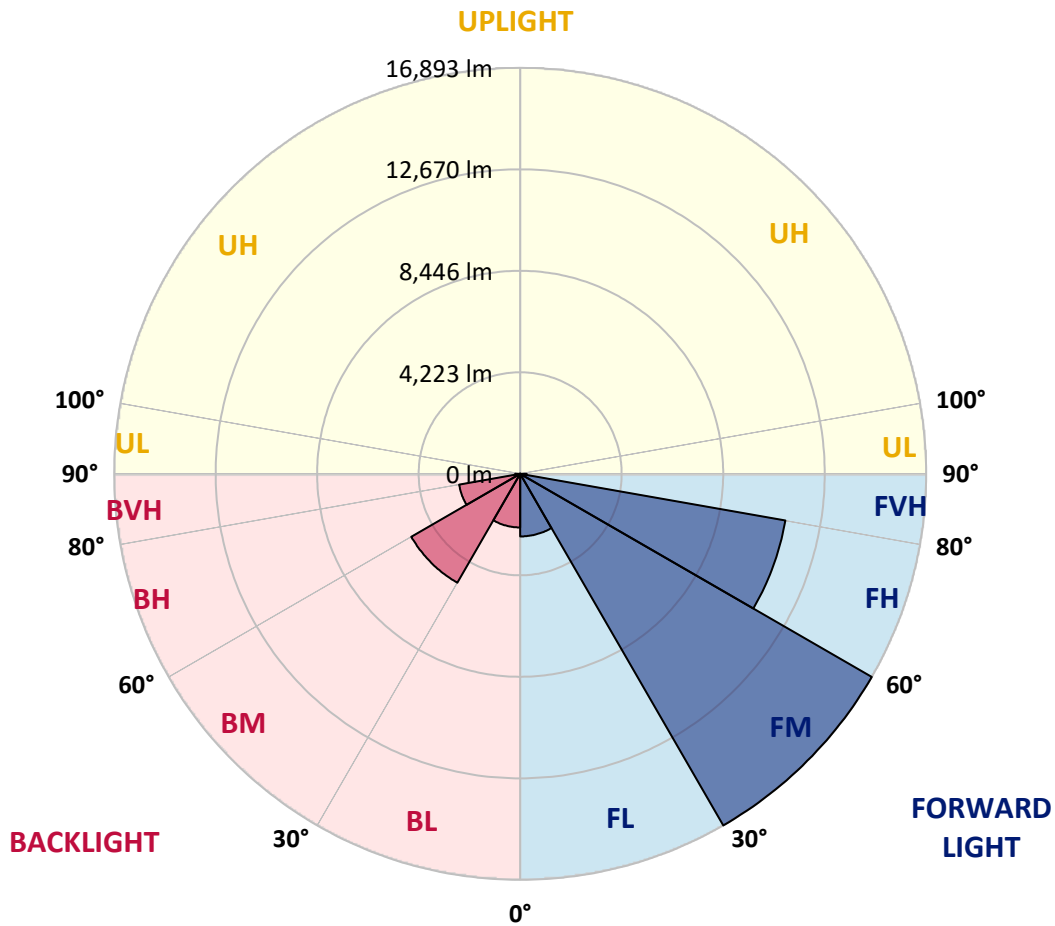
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2604.9	6.3			
FM (30°-60°)	16892.8	41.0			
FH (60°-80°)	11205.5	27.2			G4/12000
FVH (80°-90°)	269.8	0.7			G3/500
BL (0°-30°)	2232.8	5.4	B3/2500		
BM (30°-60°)	5231.7	12.7	B4/8500		
BH (60°-80°)	2579.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	206.0	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°	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2
2.5°	4524.5	4550.5	4544.0	4533.2	4531.0	4535.4	4541.9	4548.4	4546.2	4557.0	4574.3
5°	4511.5	4537.5	4535.4	4535.4	4544.0	4561.3	4572.2	4583.0	4572.2	4585.2	4609.0
7.5°	4520.2	4539.7	4548.4	4557.0	4578.7	4611.2	4637.2	4661.0	4648.0	4663.1	4693.5
10°	4630.7	4645.8	4654.5	4654.5	4669.6	4706.5	4732.5	4775.8	4764.9	4788.8	4827.7
12.5°	4832.1	4847.2	4847.2	4838.6	4849.4	4873.2	4881.9	4929.5	4910.1	4949.0	4988.0
15°	5079.0	5109.3	5085.5	5070.3	5074.7	5098.5	5096.3	5133.1	5113.6	5146.1	5180.8
17.5°	5351.9	5390.9	5351.9	5349.7	5341.1	5367.1	5369.2	5401.7	5367.1	5390.9	5414.7
20°	5674.6	5728.8	5696.3	5707.1	5687.6	5698.4	5709.3	5756.9	5702.8	5720.1	5713.6
22.5°	6129.4	6194.4	6159.8	6200.9	6187.9	6179.3	6177.1	6261.6	6177.1	6183.6	6120.8
25°	6792.2	6870.2	6809.5	6865.8	6865.8	6894.0	6926.5	7034.8	6894.0	6852.8	6690.4
27.5°	7771.2	7849.2	7730.0	7764.7	7753.9	7823.2	7788.5	8057.1	7905.5	7838.3	7511.3
30°	8949.4	9088.0	8862.8	8854.1	8843.3	8953.8	9003.6	9181.2	9027.4	8960.3	8566.1
32.5°	10223.0	10368.1	10099.5	10021.5	9980.4	10047.5	10006.4	10149.3	10043.2	9939.2	9451.9
35°	11570.1	11713.1	11457.5	11305.9	11141.3	11000.5	10853.2	10890.1	10790.4	10632.3	10127.7
37.5°	12843.7	13105.7	12835.0	12672.6	12369.3	12094.3	11682.8	11511.7	11418.5	11273.4	10764.4
40°	14141.0	14290.5	14084.7	13946.1	13616.9	13185.9	12527.5	12165.8	12040.1	11899.4	11468.3
42.5°	15096.2	15239.1	15128.7	15033.4	14775.6	14275.3	13424.1	12971.5	12789.5	12631.4	12265.4
45°	15854.3	15960.4	15891.1	15925.7	15815.3	15330.1	14353.3	13835.6	13647.2	13454.5	13166.4
47.5°	16159.6	16272.3	16382.7	16588.5	16776.9	16419.5	15351.8	14771.3	14572.0	14375.0	14091.2
50°	16125.0	16239.8	16560.3	16997.8	17582.6	17463.5	16404.4	15767.6	15583.5	15358.3	15096.2
52.5°	15847.8	15977.7	16389.2	17117.0	18048.3	18245.4	17476.5	16796.4	16623.1	16354.6	16092.5
55°	15120.0	15198.0	15815.3	16846.2	18158.7	18791.2	18526.9	17892.3	17719.1	17344.4	17058.5
57.5°	13770.7	13883.3	14782.1	16116.3	17881.5	19161.6	19449.6	19044.6	18877.8	18338.5	18039.6
60°	12009.8	12189.6	13218.4	14890.4	17175.4	19159.4	20287.8	20177.4	20038.7	19317.5	19005.6
62.5°	10017.2	10225.1	11214.9	13157.7	15940.9	18615.7	20812.0	21126.0	21054.5	20220.7	19822.1
65°	7693.2	7836.2	8821.6	10916.0	14019.7	17448.3	20872.6	21773.6	21786.6	20907.3	20248.8
67.5°	5122.3	5533.8	6389.3	8191.4	11446.7	15540.2	20339.8	21879.7	22005.4	21143.3	20034.4
70°	2499.4	3040.9	3879.1	5323.7	8191.4	12614.1	18947.1	21009.0	21288.4	20454.6	18756.5
72.5°	1037.5	1212.9	1669.9	2627.2	4702.1	8511.9	16148.8	18648.2	19165.9	18124.1	15769.8
75°	699.6	758.1	955.2	1347.2	2142.1	4197.5	11645.9	13905.0	14738.8	13688.4	11188.9
77.5°	539.3	576.1	695.2	942.2	1273.5	1587.6	6233.4	8379.8	8810.8	8156.7	5821.9
80°	424.5	452.7	519.8	686.6	903.2	849.0	2124.7	3796.8	4045.9	3393.9	1871.3
82.5°	368.2	379.0	372.5	465.7	599.9	496.0	697.4	1401.3	1546.4	1121.9	610.8
85°	266.4	296.7	309.7	288.1	318.4	251.2	285.9	496.0	545.8	487.3	344.4
87.5°	108.3	160.3	197.1	186.3	117.0	71.5	88.8	145.1	166.8	181.9	112.6
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°	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2	4572.2
2.5°	4576.5	4591.7	4602.5	4615.5	4624.2	4637.2	4663.1	4678.3	4680.5	4691.3	4689.1
5°	4617.7	4639.3	4663.1	4697.8	4736.8	4769.3	4819.1	4853.7	4866.7	4877.6	4875.4
7.5°	4706.5	4736.8	4780.1	4840.7	4897.1	4940.4	5001.0	5042.2	5083.3	5098.5	5100.7
10°	4838.6	4881.9	4944.7	5027.0	5087.7	5144.0	5206.8	5241.4	5282.6	5299.9	5308.6
12.5°	5003.2	5048.7	5131.0	5245.8	5302.1	5341.1	5362.7	5354.1	5362.7	5377.9	5382.2
15°	5191.6	5241.4	5334.6	5458.0	5497.0	5462.4	5414.7	5371.4	5364.9	5369.2	5384.4
17.5°	5414.7	5451.5	5559.8	5663.8	5635.6	5492.7	5388.7	5319.4	5284.8	5273.9	5289.1
20°	5726.6	5726.6	5815.4	5880.4	5691.9	5449.4	5286.9	5174.3	5102.8	5072.5	5066.0
22.5°	6105.6	6071.0	6127.3	6081.8	5681.1	5328.1	5102.8	4907.9	4799.6	4756.3	4749.8
25°	6586.4	6545.3	6530.1	6248.6	5603.1	5135.3	4769.3	4533.2	4437.9	4414.1	4418.4
27.5°	7312.0	7208.1	7011.0	6339.5	5460.2	4832.1	4379.4	4160.7	4106.5	4108.7	4115.2
30°	8278.0	8070.1	7587.1	6354.7	5226.3	4403.2	3980.9	3824.9	3799.0	3809.8	3846.6
32.5°	9172.5	8975.4	8176.2	6285.4	4866.7	3983.1	3623.5	3519.6	3480.6	3493.6	3510.9
35°	9874.3	9820.1	8722.0	6187.9	4424.9	3588.9	3303.0	3214.2	3138.4	3121.0	3134.0
37.5°	10537.0	10515.4	9131.4	6051.5	3987.4	3309.5	3045.2	2928.3	2817.8	2757.2	2759.3
40°	11264.7	11243.1	9399.9	5841.4	3599.7	3066.9	2813.5	2659.7	2523.3	2412.8	2423.6
42.5°	12083.5	11955.7	9527.7	5540.3	3270.5	2861.1	2625.0	2417.1	2237.4	2135.6	2142.1
45°	12978.0	12689.9	9525.5	5157.0	2993.2	2672.7	2423.6	2129.1	1962.3	1867.0	1862.7
47.5°	13926.6	13391.6	9408.6	4732.5	2724.7	2464.8	2111.7	1886.5	1776.0	1717.5	1704.5
50°	14905.6	14047.9	9209.3	4245.1	2449.6	2228.7	1916.8	1763.0	1678.6	1624.4	1604.9
52.5°	15826.1	14643.5	8968.9	3692.8	2170.2	1999.1	1830.2	1711.0	1622.2	1561.6	1535.6
55°	16681.6	15156.8	8628.9	3127.5	1942.8	1845.3	1789.0	1689.4	1587.6	1516.1	1488.0
57.5°	17441.8	15490.4	8041.9	2596.9	1780.4	1739.2	1745.7	1652.6	1535.6	1475.0	1436.0
60°	18074.3	15735.1	7173.4	2105.2	1648.2	1635.2	1678.6	1583.3	1446.8	1377.5	1347.2
62.5°	18453.3	15730.8	6107.8	1724.0	1535.6	1539.9	1589.8	1496.6	1358.0	1293.0	1273.5
65°	18420.8	15345.3	4938.2	1475.0	1427.3	1431.6	1496.6	1401.3	1284.4	1245.4	1243.2
67.5°	17768.9	14405.3	3788.1	1312.5	1308.2	1327.7	1403.5	1336.3	1238.9	1234.6	1241.0
70°	16003.7	12453.8	2729.0	1182.6	1184.7	1212.9	1312.5	1295.2	1215.1	1223.7	1221.6
72.5°	12832.8	9495.2	1832.3	1046.1	1048.3	1093.8	1225.9	1262.7	1191.2	1306.0	1323.4
75°	8546.6	5921.5	1178.2	901.0	903.2	961.7	1150.1	1199.9	1126.3	1301.7	1312.5
77.5°	4106.5	2661.9	853.4	758.1	758.1	812.2	994.1	1074.3	959.5	1011.5	927.0
80°	1418.7	1000.6	671.4	610.8	597.8	634.6	838.2	931.3	827.4	762.4	714.7
82.5°	558.8	519.8	539.3	474.3	431.0	454.8	651.9	768.9	608.6	550.1	548.0
85°	320.6	337.9	381.2	314.1	249.1	279.4	478.7	552.3	459.2	405.0	413.7
87.5°	86.6	119.1	175.4	162.4	112.6	119.1	227.4	305.4	264.2	203.6	210.1
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)