

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: P885277

Luminaire Tested: **NAV-SB6C-727-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-727-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40818 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

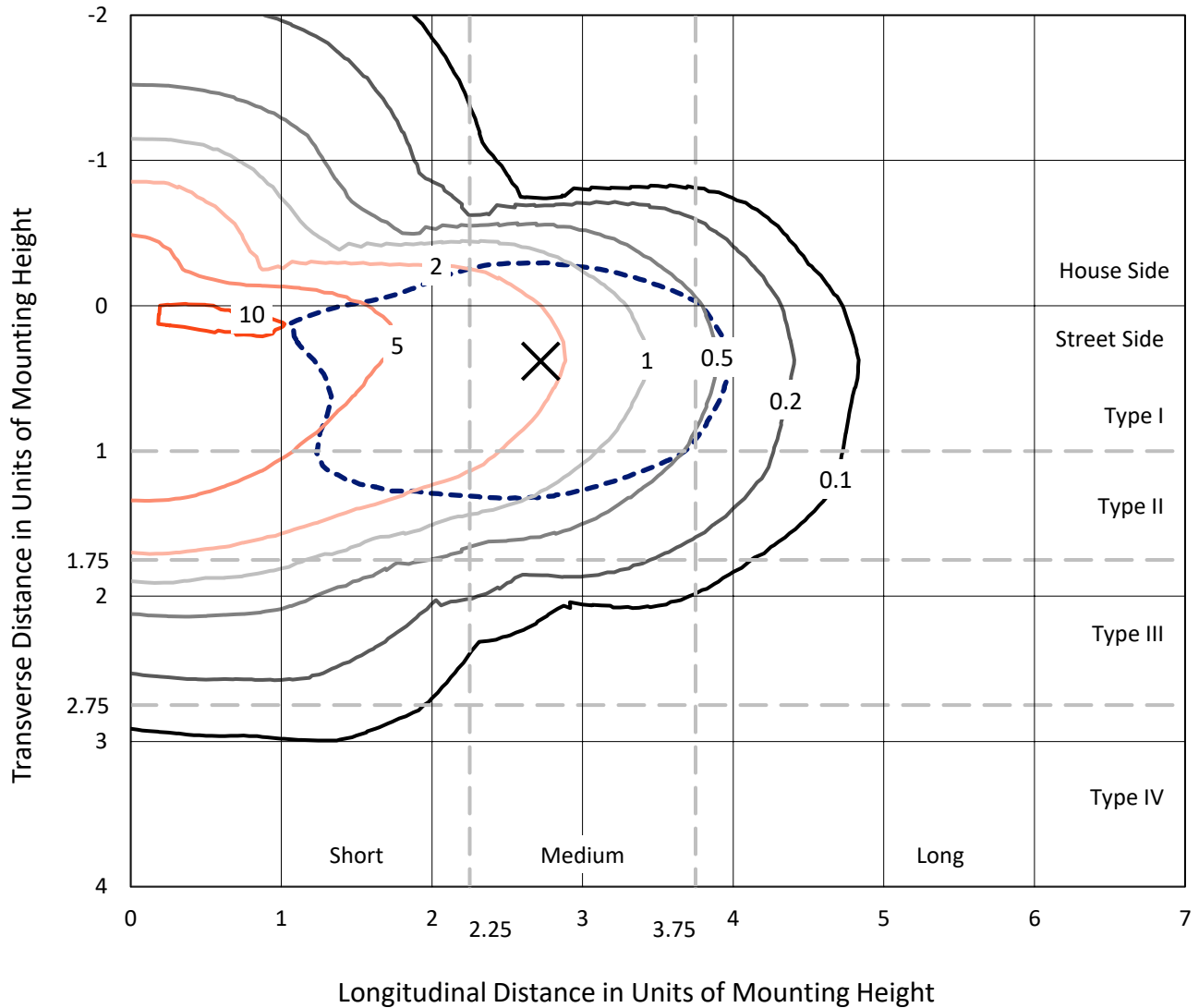
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

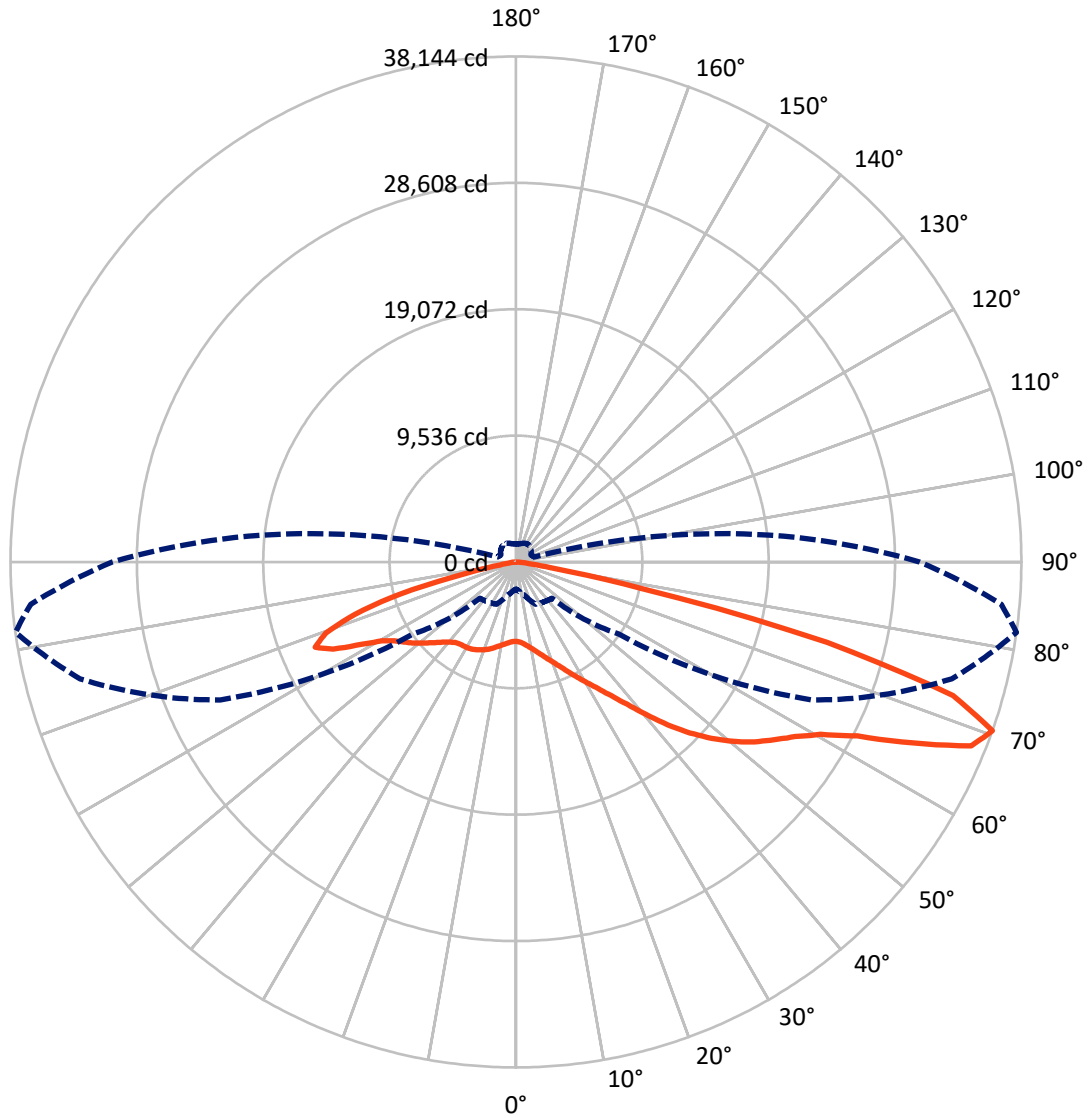
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10062.6	0.0	10062.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	30755.4	0.0	30755.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	40818.0	0.0	40818.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.0	1.4
10°-20°	1623.4	4.0
20°-30°	2715.8	6.7
30°-40°	4242.7	10.4
40°-50°	6757.0	16.6
50°-60°	9403.2	23.0
60°-70°	9836.2	24.1
70°-80°	5140.9	12.6
80°-90°	533.8	1.3
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°	40818.0	100.0
0°-180°	40818.0	100.0

**Coefficient of Utilization**



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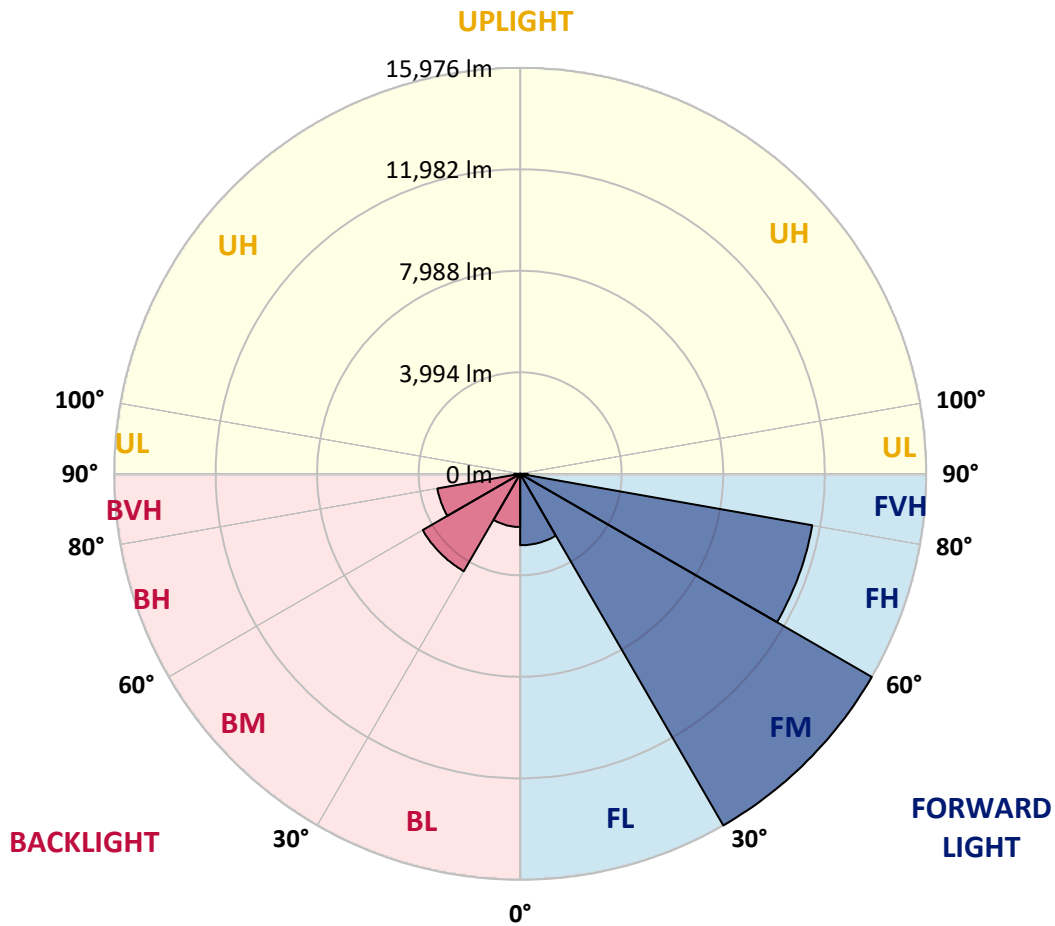
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2810.8	6.9			
FM (30°-60°)	15975.8	39.1			
FH (60°-80°)	11670.0	28.6			G4/12000
FVH (80°-90°)	298.8	0.7			G3/500
BL (0°-30°)	2093.4	5.1	B3/2500		
BM (30°-60°)	4427.2	10.8	B3/5000		
BH (60°-80°)	3307.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	235.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4
2.5°	6127.4	6162.0	6151.2	6140.4	6140.4	6125.2	6123.0	6101.4	6084.1	6055.9	6049.4
5°	6205.4	6242.2	6237.8	6246.5	6274.7	6281.2	6287.7	6274.7	6240.0	6205.4	6190.2
7.5°	6136.0	6177.2	6190.2	6242.2	6328.8	6406.8	6465.3	6489.1	6456.6	6406.8	6383.0
10°	5902.1	5947.6	5993.1	6116.6	6270.3	6454.4	6610.4	6703.5	6697.0	6649.4	6608.2
12.5°	5427.8	5475.4	5572.9	5813.3	6094.9	6419.8	6710.0	6904.9	6972.1	6937.4	6866.0
15°	5048.8	5089.9	5163.5	5410.5	5776.5	6270.3	6746.8	7125.9	7297.0	7277.5	7190.8
17.5°	5037.9	5055.3	5100.7	5217.7	5499.3	6036.4	6707.8	7342.5	7669.5	7667.3	7559.1
20°	5228.5	5235.0	5261.0	5284.8	5445.1	5858.8	6608.2	7522.2	8087.5	8087.5	7970.6
22.5°	5492.8	5488.4	5514.4	5492.8	5570.7	5843.6	6545.4	7680.3	8553.2	8587.9	8440.6
25°	5889.1	5867.5	5861.0	5811.2	5826.3	5984.4	6614.7	7860.1	9105.5	9177.0	8992.9
27.5°	6417.6	6383.0	6359.1	6244.3	6205.4	6274.7	6827.0	8076.7	9720.6	9844.1	9610.2
30°	7106.4	7043.6	7008.9	6809.6	6668.9	6679.7	7147.5	8364.8	10363.9	10563.2	10266.4
32.5°	8046.4	7948.9	7855.8	7528.7	7271.0	7186.5	7561.2	8763.3	11061.3	11379.7	10998.5
35°	9099.0	9021.0	8921.4	8416.8	8020.4	7825.5	8120.0	9319.9	11877.9	12382.5	11886.6
37.5°	10112.7	10045.5	10093.2	9413.1	8901.9	8618.2	8852.1	10067.2	12885.0	13630.1	12999.8
40°	11161.0	11109.0	11115.5	10465.7	9870.1	9551.7	9740.1	11005.0	14039.5	15113.8	14338.4
42.5°	12300.2	12261.3	12131.3	11555.2	10885.9	10589.2	10762.4	12088.0	15278.4	16803.2	15806.9
45°	13576.0	13552.1	13430.9	12770.2	12003.5	11670.0	11903.9	13283.6	16523.8	18393.0	17281.9
47.5°	14678.4	14697.9	14682.8	14126.1	13331.2	12841.7	13121.1	14531.1	17682.5	19887.5	18696.2
50°	15209.1	15310.9	15460.3	15287.0	14793.2	14295.1	14349.2	15735.4	18787.2	21288.8	20052.1
52.5°	14931.8	15124.6	15531.8	15809.0	15999.6	15895.7	15750.5	16931.0	19826.8	22553.7	21334.3
55°	13898.7	14169.4	14845.2	15514.5	16487.0	17242.9	17433.5	18256.5	20840.5	23667.0	22547.2
57.5°	12016.5	12456.2	13062.6	14416.3	16053.8	17894.8	19395.8	20095.4	21914.8	24856.1	23816.4
60°	8789.3	9378.4	10132.2	12146.5	14537.6	17546.1	21065.7	22919.7	23441.7	26396.0	25469.0
62.5°	5624.9	5988.8	6681.9	8579.2	11327.7	15759.2	21576.9	26450.2	26030.0	28921.5	27946.8
65°	3851.0	4084.9	4719.5	5785.2	7323.0	11730.6	20208.0	29096.9	30140.9	32924.1	32183.4
67.5°	2798.4	2976.0	3517.4	4451.0	4771.5	6941.8	15681.2	28975.6	34137.0	37048.0	35895.7
70°	2040.3	2165.9	2620.8	3517.4	3671.2	3861.8	9499.7	24630.8	34050.4	38144.0	36764.3
72.5°	1511.8	1598.4	1903.8	2729.1	2971.6	2607.8	4702.2	17901.3	29259.4	34500.9	33394.1
75°	1093.8	1158.8	1384.0	2087.9	2378.2	1986.1	2345.7	10461.4	20409.4	24269.1	24464.0
77.5°	836.0	885.9	1033.1	1529.1	1903.8	1490.2	1455.5	4812.7	9677.3	9725.0	10270.8
80°	671.4	703.9	784.1	1076.5	1459.8	1115.4	948.7	1942.8	3058.3	2588.3	2716.1
82.5°	493.8	548.0	662.8	755.9	1044.0	768.9	578.3	981.2	1163.1	1000.7	1009.3
85°	281.6	318.4	400.7	541.5	667.1	470.0	331.4	435.3	541.5	444.0	396.4
87.5°	99.6	130.0	140.8	212.3	290.2	194.9	127.8	125.6	177.6	132.1	110.5
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°	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4
2.5°	6027.7	6016.9	5973.6	5915.1	5854.5	5796.0	5776.5	5735.3	5707.2	5692.0	5709.4
5°	6149.0	6114.4	6012.6	5882.6	5746.2	5598.9	5494.9	5399.6	5330.3	5265.3	5291.3
7.5°	6322.3	6261.7	6086.2	5858.8	5616.2	5371.5	5189.5	5050.9	4957.8	4897.1	4910.1
10°	6523.7	6430.6	6162.0	5822.0	5447.3	5096.4	4882.0	4762.9	4704.4	4671.9	4680.5
12.5°	6755.5	6623.4	6240.0	5737.5	5189.5	4788.8	4641.6	4606.9	4609.1	4611.2	4615.6
15°	7041.4	6857.3	6302.8	5553.4	4853.8	4552.8	4526.8	4583.1	4641.6	4669.7	4667.6
17.5°	7364.1	7104.2	6313.6	5250.2	4524.6	4401.1	4483.4	4604.7	4693.5	4732.5	4741.2
20°	7710.7	7355.5	6235.7	4821.3	4253.9	4277.7	4425.0	4580.9	4678.4	4728.2	4741.2
22.5°	8107.0	7624.0	6049.4	4370.8	4032.9	4143.4	4316.7	4468.3	4570.1	4619.9	4632.9
25°	8559.7	7925.1	5757.0	3991.8	3842.3	3991.8	4165.1	4290.7	4373.0	4418.5	4431.5
27.5°	9062.2	8239.1	5367.1	3690.7	3675.6	3835.8	3978.8	4076.3	4119.6	4154.2	4167.2
30°	9566.9	8525.1	4895.0	3463.3	3530.4	3682.1	3783.9	3827.2	3840.2	3846.7	3861.8
32.5°	10112.7	8772.0	4399.0	3274.9	3391.8	3532.6	3593.3	3612.7	3552.1	3511.0	3523.9
35°	10773.3	9036.2	3913.8	3125.4	3255.4	3376.7	3396.2	3378.8	3307.4	3222.9	3227.2
37.5°	11589.8	9365.4	3526.1	3019.3	3127.6	3207.7	3183.9	3179.6	3186.1	3086.4	3092.9
40°	12590.5	9794.3	3242.4	2937.0	3023.6	3040.9	2973.8	3010.6	3043.1	2891.5	2895.8
42.5°	13701.6	10311.9	3062.6	2880.7	2937.0	2895.8	2791.9	2833.0	2828.7	2629.4	2627.3
45°	14834.4	10875.1	2999.8	2839.5	2856.8	2774.5	2659.7	2670.6	2579.6	2399.8	2406.3
47.5°	15960.6	11479.4	3038.8	2804.9	2757.2	2664.1	2575.3	2527.6	2393.3	2259.1	2259.1
50°	17065.3	12114.0	3181.7	2735.6	2620.8	2566.6	2501.6	2417.2	2274.2	2159.4	2150.8
52.5°	18089.7	12752.9	3342.0	2620.8	2449.7	2482.1	2441.0	2343.5	2202.7	2085.8	2087.9
55°	19060.1	13391.9	3404.8	2462.6	2289.4	2408.5	2384.7	2204.9	2036.0	1940.7	1932.0
57.5°	20117.0	14160.8	3335.5	2261.2	2159.4	2324.0	2233.1	2033.8	1936.3	1864.9	1858.4
60°	21581.2	15367.2	3186.1	2012.1	2036.0	2198.4	2042.5	1960.2	1854.0	1773.9	1769.6
62.5°	24013.5	17617.6	2945.6	1765.2	1890.8	2012.1	1951.5	1869.2	1760.9	1682.9	1682.9
65°	27608.9	20745.2	2493.0	1572.5	1728.4	1830.2	1854.0	1771.7	1659.1	1576.8	1581.1
67.5°	30641.2	22707.5	1886.5	1412.2	1561.6	1682.9	1750.1	1669.9	1550.8	1470.7	1472.8
70°	30474.5	21282.3	1440.3	1254.1	1414.3	1537.8	1624.4	1561.6	1433.8	1358.0	1364.5
72.5°	27067.5	17803.8	1165.3	1093.8	1264.9	1386.2	1490.2	1442.5	1312.5	1238.9	1238.9
75°	19885.3	12638.1	931.3	931.3	1078.6	1228.1	1342.9	1312.5	1193.4	1141.4	1126.3
77.5°	8382.1	5302.2	729.9	773.2	896.7	1054.8	1197.8	1208.6	1104.6	1169.6	1061.3
80°	2228.7	1462.0	556.6	608.6	703.9	870.7	1041.8	1037.5	924.8	864.2	803.6
82.5°	849.0	576.1	396.4	428.9	509.0	667.1	825.2	851.2	738.6	638.9	638.9
85°	327.1	246.9	244.7	257.7	296.7	441.8	623.8	645.4	556.6	472.2	487.3
87.5°	84.5	73.6	91.0	86.6	136.5	236.1	357.4	370.4	340.0	197.1	281.6
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)