

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: P885284

Luminaire Tested: **NAV-SB6C-730-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885284  
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-SB6C-730-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

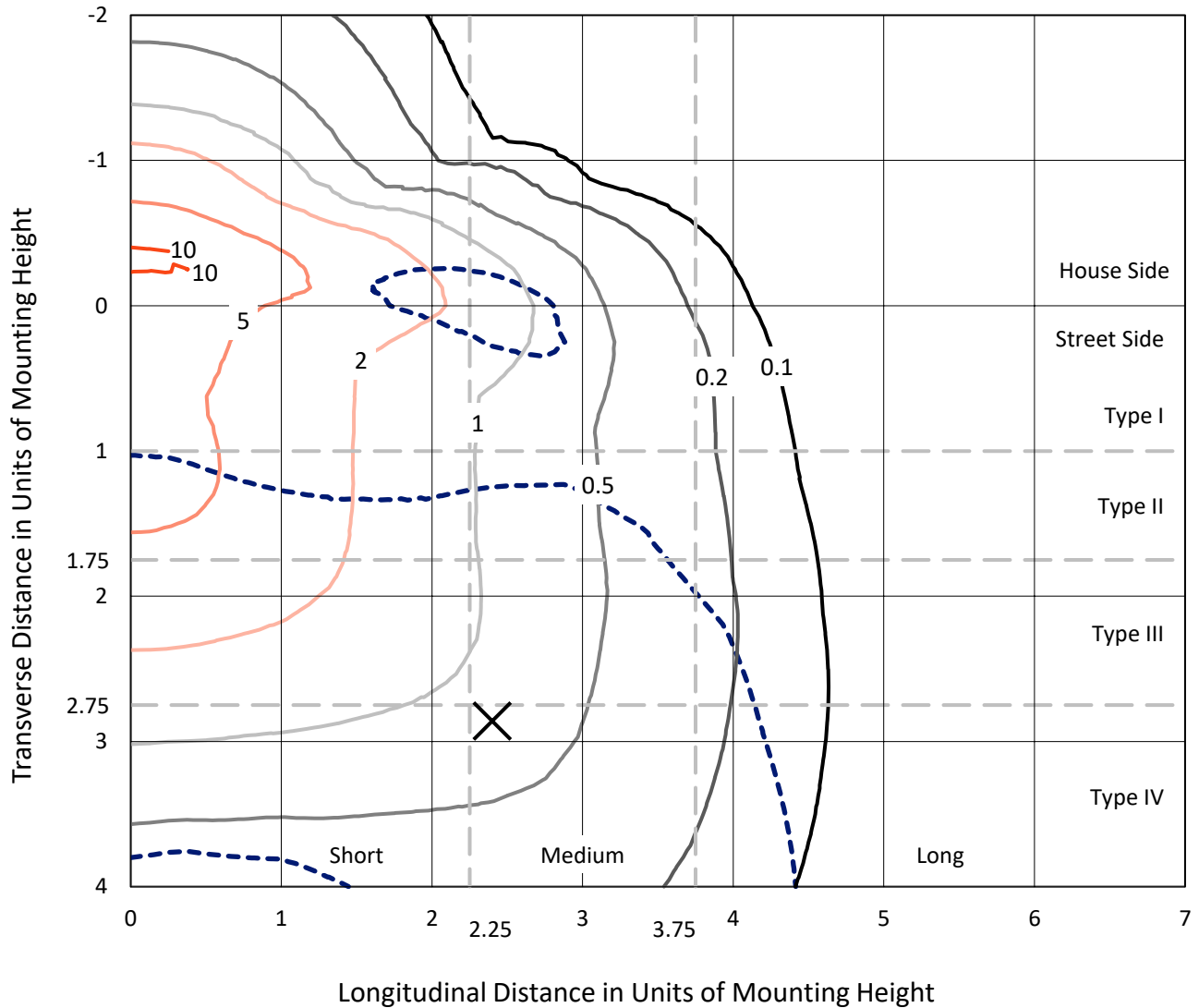
Lumens per Lamp: N/A  
Luminaire Lumens: 44355 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

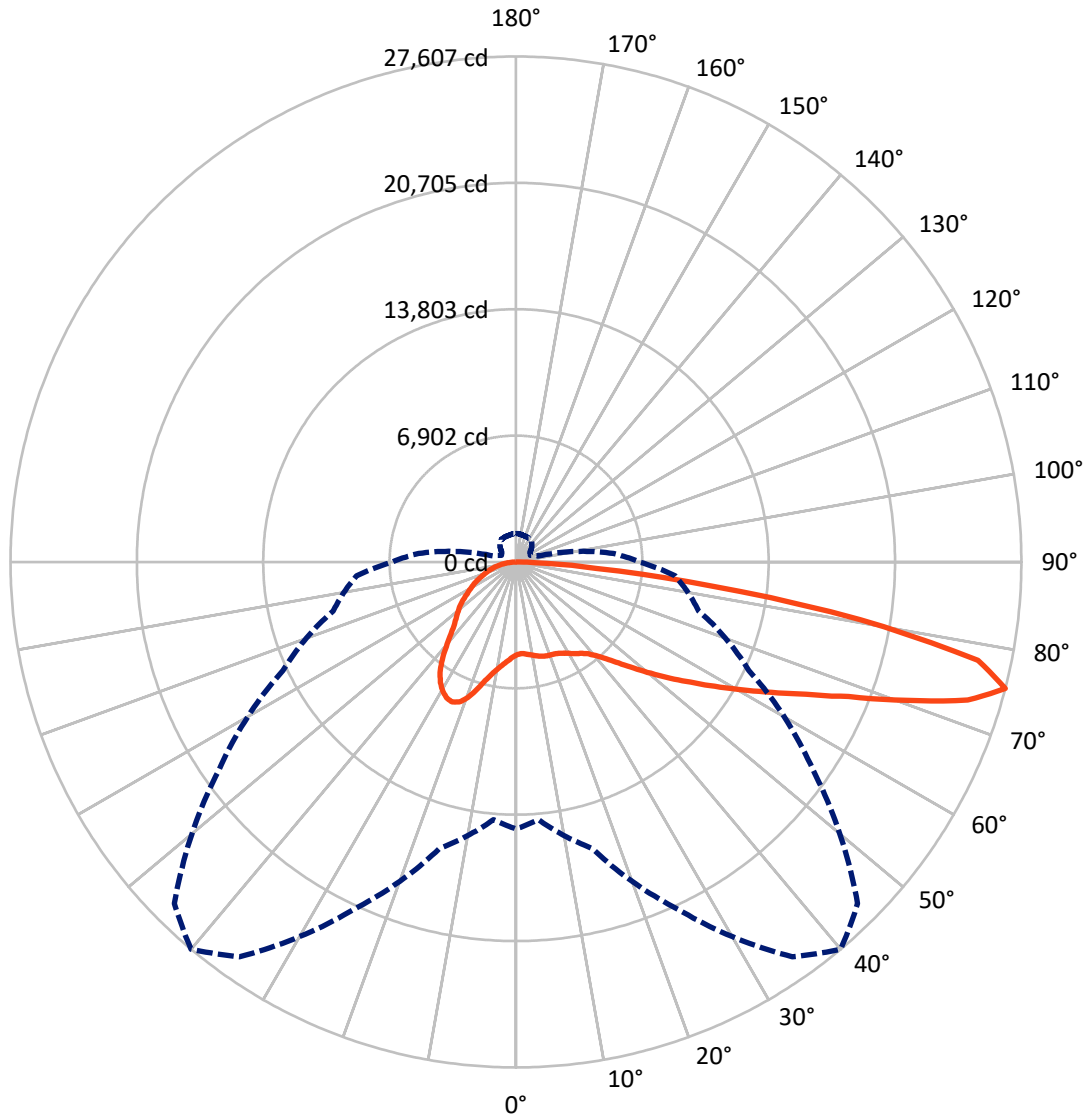
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13742.7	0.0	13742.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	30612.3	0.0	30612.3
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	44355.0	0.0	44355.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.3	1.1
10°-20°	1699.8	3.8
20°-30°	3103.8	7.0
30°-40°	4402.0	9.9
40°-50°	5944.0	13.4
50°-60°	7996.3	18.0
60°-70°	10149.1	22.9
70°-80°	9211.0	20.8
80°-90°	1342.7	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°	44355.0	100.0
0°-180°	44355.0	100.0

**Coefficient of Utilization**



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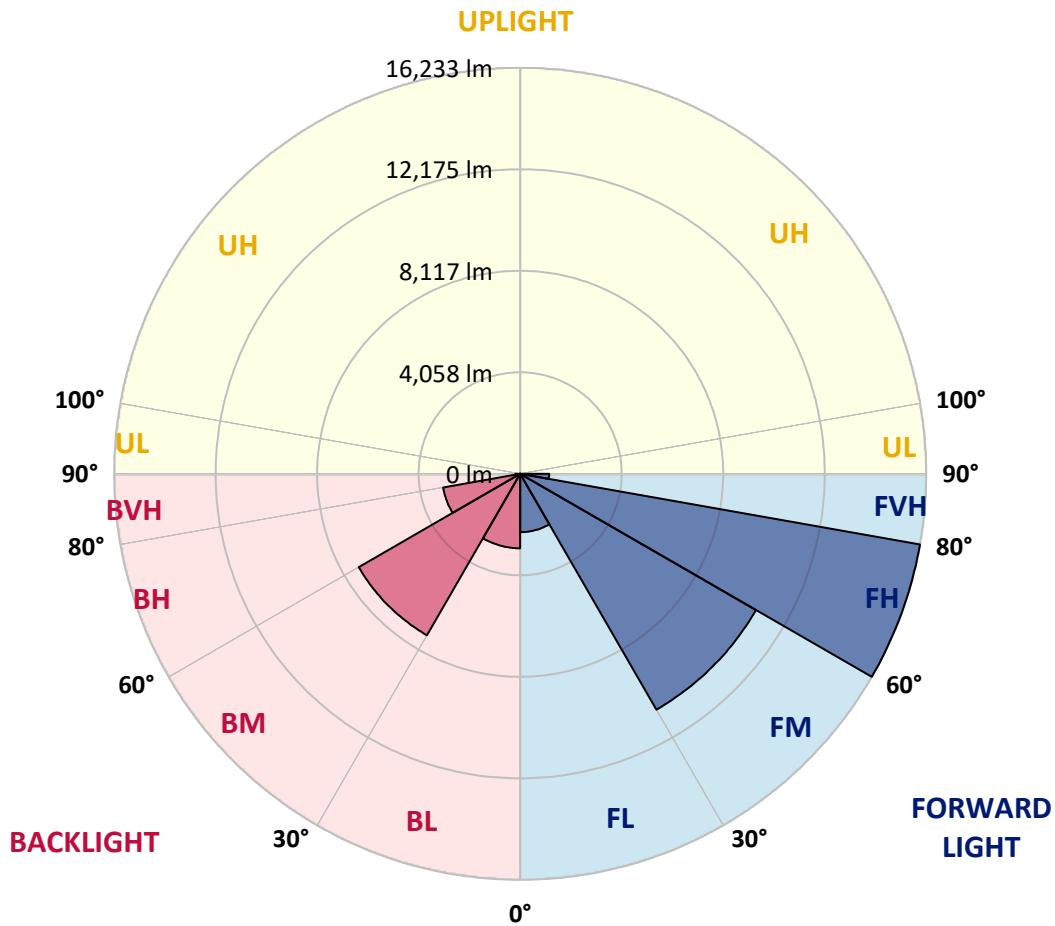
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2333.1	5.3			
FM (30°-60°)	10888.2	24.5			
FH (60°-80°)	16233.3	36.6			G5
FVH (80°-90°)	1157.8	2.6			G5
BL (0°-30°)	2976.8	6.7	B4/5000		
BM (30°-60°)	7454.2	16.8	B4/8500		
BH (60°-80°)	3126.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	184.9	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°	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1
2.5°	4994.4	5022.7	5015.6	5006.2	5006.2	5008.5	5006.2	5022.7	5039.1	5055.6	5081.5
5°	5046.2	5074.4	5060.3	5048.5	5039.1	5036.8	5029.7	5027.4	5036.8	5057.9	5093.2
7.5°	5147.3	5175.6	5154.4	5133.2	5114.4	5105.0	5095.6	5081.5	5074.4	5086.2	5135.6
10°	5260.3	5288.5	5262.6	5225.0	5194.4	5182.6	5173.2	5159.1	5149.7	5156.7	5210.9
12.5°	5373.2	5401.4	5366.1	5314.4	5274.4	5267.3	5255.6	5250.8	5248.5	5246.1	5300.2
15°	5479.0	5502.6	5457.9	5396.7	5354.4	5342.6	5330.8	5337.9	5349.7	5363.8	5424.9
17.5°	5561.4	5584.9	5519.0	5439.0	5399.1	5394.3	5387.3	5410.8	5443.8	5479.0	5554.3
20°	5636.7	5660.2	5575.5	5467.3	5420.2	5420.2	5422.6	5472.0	5519.0	5570.8	5674.3
22.5°	5742.5	5761.3	5657.8	5509.6	5441.4	5446.1	5464.9	5514.3	5573.1	5643.7	5787.2
25°	5900.1	5914.3	5787.2	5589.6	5512.0	5526.1	5542.6	5566.1	5622.5	5704.9	5897.8
27.5°	6154.2	6166.0	5998.9	5730.8	5613.1	5636.7	5660.2	5643.7	5669.6	5740.2	5987.2
30°	6511.8	6518.9	6307.1	5951.9	5784.9	5796.6	5801.3	5733.1	5683.7	5740.2	6050.7
32.5°	6935.3	6932.9	6681.2	6220.1	5980.1	5968.4	5928.4	5794.3	5679.0	5728.4	6107.2
35°	7591.6	7565.7	7241.1	6596.5	6201.3	6128.3	6034.2	5862.5	5702.5	5716.6	6156.6
37.5°	8678.5	8598.5	8149.2	7212.9	6530.6	6344.8	6206.0	5973.1	5754.3	5711.9	6215.4
40°	9904.1	9803.0	9309.0	8057.4	7024.7	6725.9	6502.4	6130.7	5839.0	5733.1	6302.4
42.5°	11358.0	11214.5	10682.8	9052.5	7650.4	7217.6	6881.1	6330.7	5963.7	5801.3	6420.1
45°	13143.6	12953.0	12200.2	10174.7	8438.5	7862.2	7412.8	6634.1	6154.2	5933.1	6596.5
47.5°	14948.0	14995.0	13924.6	11459.2	9384.2	8657.3	8078.6	7090.5	6431.8	6144.8	6881.1
50°	16865.3	16898.2	15639.6	12882.5	10457.0	9556.0	8826.7	7601.0	6817.6	6445.9	7307.0
52.5°	18361.5	18366.2	17197.0	14371.6	11574.4	10544.0	9633.6	8184.4	7264.6	6845.9	7873.9
55°	19297.8	19286.0	18288.6	15780.8	12858.9	11581.5	10527.6	8847.9	7810.4	7316.4	8586.7
57.5°	19977.7	19942.4	19041.4	16992.3	14228.1	12807.2	11539.2	9600.7	8455.0	7876.3	9525.4
60°	20236.5	20215.3	19551.9	18039.2	15667.8	14162.2	12706.0	10442.9	9186.6	8537.3	10732.2
62.5°	20335.3	20375.3	20053.0	19053.1	17208.8	15663.1	13988.1	11449.8	10010.0	9285.4	12005.0
65°	20683.4	20756.4	20690.5	20380.0	18949.6	17420.5	15689.0	12647.2	10908.7	10087.6	13334.1
67.5°	21372.7	21445.7	21473.9	21967.9	21076.3	19610.7	17811.0	14138.7	11960.3	10920.4	14334.0
70°	21356.3	21335.1	21833.8	23231.2	23739.4	22643.1	20671.7	15973.7	13214.2	11612.1	14461.0
72.5°	19439.0	19269.6	20448.2	23217.1	25955.5	25809.6	24165.2	18340.3	14296.3	11696.8	12548.4
75°	14583.3	14131.6	16213.6	20923.4	26324.8	27606.9	26386.0	19808.3	14039.9	10334.7	8732.6
77.5°	6236.6	5782.5	8236.2	15489.1	23560.6	25807.2	24348.7	17281.7	11207.4	6834.1	4288.7
80°	1632.7	1630.3	2489.0	7022.3	16023.1	19057.8	16719.4	11160.4	6403.6	2441.9	1183.3
82.5°	675.2	658.7	915.1	2731.3	7829.2	10694.6	8727.9	4978.0	2312.5	661.1	392.9
85°	251.7	249.4	444.6	943.4	2761.9	4411.0	3192.4	1272.7	576.4	322.3	176.4
87.5°	70.6	68.2	96.5	327.0	672.8	1021.0	545.8	209.4	162.3	127.0	51.8
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°	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1	5072.1
2.5°	5088.5	5100.3	5121.5	5137.9	5159.1	5182.6	5215.6	5236.7	5257.9	5272.0	5262.6
5°	5109.7	5135.6	5189.7	5243.8	5307.3	5366.1	5434.3	5483.7	5523.7	5535.5	5540.2
7.5°	5156.7	5199.1	5290.8	5382.6	5483.7	5580.2	5679.0	5763.7	5831.9	5857.8	5860.2
10°	5239.1	5295.5	5424.9	5554.3	5688.4	5836.6	5963.7	6086.0	6182.4	6222.4	6224.8
12.5°	5342.6	5413.2	5582.6	5761.3	5947.2	6151.9	6316.5	6467.1	6587.1	6641.2	6641.2
15°	5476.7	5568.4	5784.9	6024.8	6297.7	6582.4	6791.8	6958.8	7092.9	7158.7	7154.0
17.5°	5622.5	5744.9	6017.8	6380.1	6770.6	7144.6	7389.3	7511.6	7650.4	7713.9	7711.6
20°	5763.7	5914.3	6304.8	6831.7	7351.7	7749.2	7946.8	7979.8	7989.2	7996.2	8015.1
22.5°	5909.6	6111.9	6664.7	7401.1	7958.6	8233.9	8262.1	8120.9	7923.3	7831.6	7857.4
25°	6069.5	6337.7	7135.2	8029.2	8480.9	8513.8	8297.4	7953.9	7579.8	7408.1	7434.0
27.5°	6224.8	6598.8	7699.8	8629.1	8857.3	8567.9	8102.1	7615.1	7163.5	6982.3	7003.5
30°	6380.1	6897.6	8323.2	9153.7	9029.0	8433.8	7793.9	7250.5	6796.5	6605.9	6627.1
32.5°	6537.7	7245.8	9040.8	9532.4	8998.4	8149.2	7410.5	6841.2	6441.2	6241.3	6267.1
35°	6716.5	7674.0	9720.7	9739.5	8793.8	7730.4	6904.7	6351.8	6003.7	5843.7	5879.0
37.5°	6949.4	8217.4	10320.5	9791.2	8436.2	7116.4	6276.5	5773.1	5486.1	5413.2	5464.9
40°	7238.7	8871.4	10779.3	9708.9	7906.9	6370.6	5589.6	5187.3	5025.0	5041.5	5097.9
42.5°	7615.1	9603.0	11101.6	9497.2	7170.5	5601.4	4987.4	4808.6	4886.2	4952.1	5013.2
45°	8104.5	10362.9	11301.6	9137.2	6337.7	4949.7	4632.1	4674.5	4733.3	4740.3	4787.4
47.5°	8730.2	11132.2	11433.3	8593.8	5488.5	4491.0	4406.3	4415.7	4403.9	4354.5	4392.2
50°	9511.3	11880.3	11550.9	7873.9	4766.2	4204.0	4091.0	4058.1	3895.8	3735.8	3757.0
52.5°	10400.5	12567.2	11600.3	6980.0	4204.0	3964.0	3780.5	3573.5	3270.0	3220.6	3237.1
55°	11388.6	13202.4	11473.3	5881.3	3731.1	3655.8	3378.2	3128.9	3095.9	3053.6	3060.6
57.5°	12569.6	13887.0	11214.5	4655.7	3246.5	3295.9	3025.4	3053.6	2994.8	2928.9	2917.1
60°	13861.1	14595.1	10760.5	3538.2	2745.4	2846.6	2933.6	2931.3	2914.8	2860.7	2841.9
62.5°	15023.3	15060.9	9866.5	2710.1	2305.5	2498.4	2736.0	2733.6	2719.5	2688.9	2677.2
65°	15714.9	14990.3	8375.0	2133.7	1943.2	2211.4	2467.8	2486.6	2489.0	2486.6	2486.6
67.5°	15592.6	14164.6	6328.3	1698.5	1644.4	1919.7	2202.0	2227.8	2246.7	2251.4	2256.1
70°	14209.3	12350.8	4126.3	1355.1	1378.6	1663.2	1950.2	1976.1	1992.6	2011.4	2020.8
72.5°	11075.7	9080.8	2361.9	1096.3	1145.7	1442.1	1700.9	1731.5	1740.9	1776.2	1790.3
75°	6749.4	5340.2	1275.1	863.4	941.0	1232.7	1453.9	1489.2	1505.6	1548.0	1552.7
77.5°	3208.9	2312.5	726.9	672.8	757.5	1006.9	1228.0	1268.0	1223.3	1246.8	1228.0
80°	1084.5	858.7	458.7	512.9	578.7	785.7	983.4	1023.4	929.2	924.5	915.1
82.5°	378.8	348.2	291.7	341.1	374.1	562.3	743.4	795.2	691.6	689.3	656.4
85°	148.2	141.2	162.3	185.8	223.5	345.8	489.3	515.2	425.8	343.5	338.8
87.5°	30.6	32.9	40.0	42.3	68.2	120.0	176.4	216.4	171.7	145.9	134.1
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)