

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: P970838

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43205.8 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

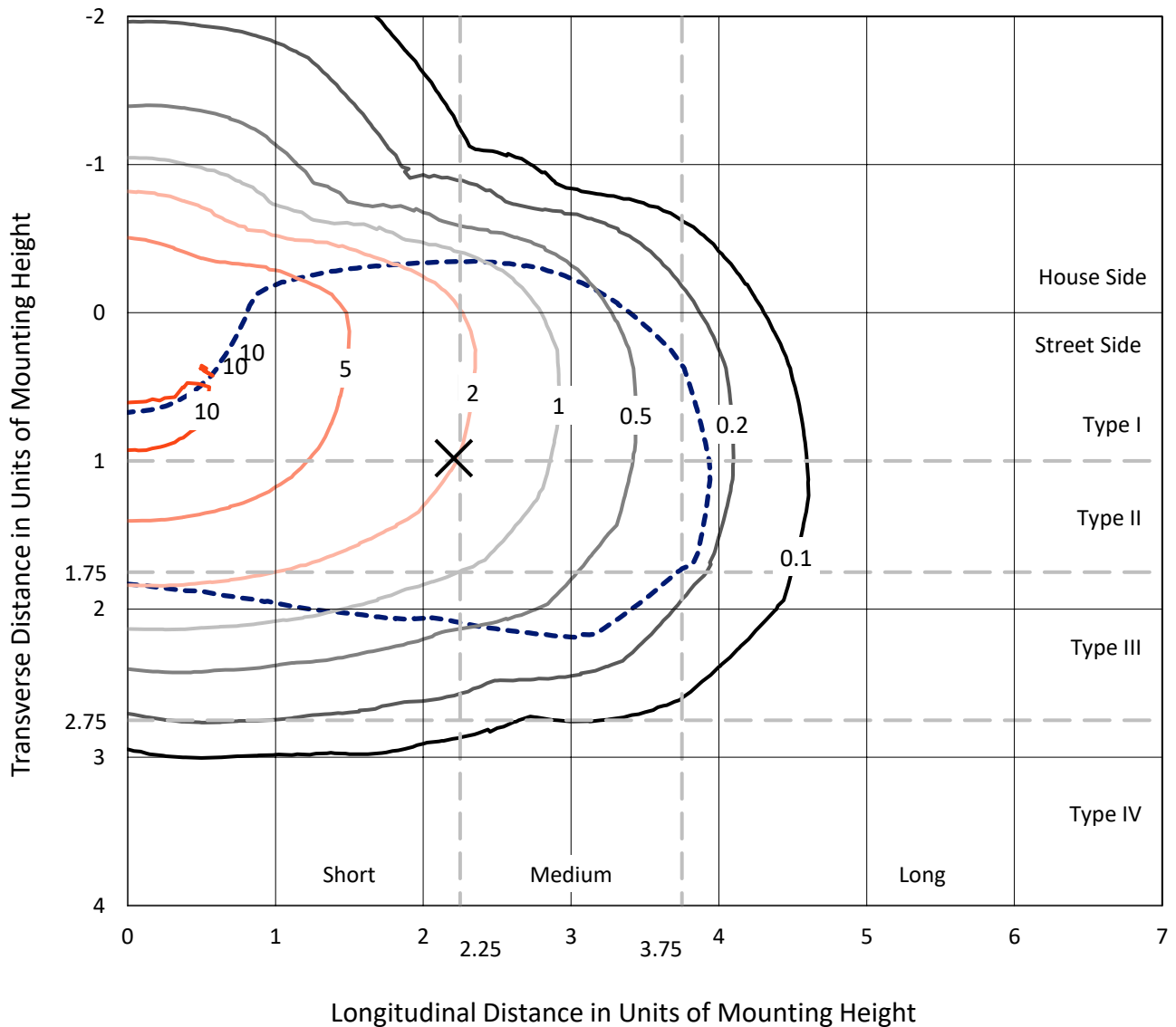
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

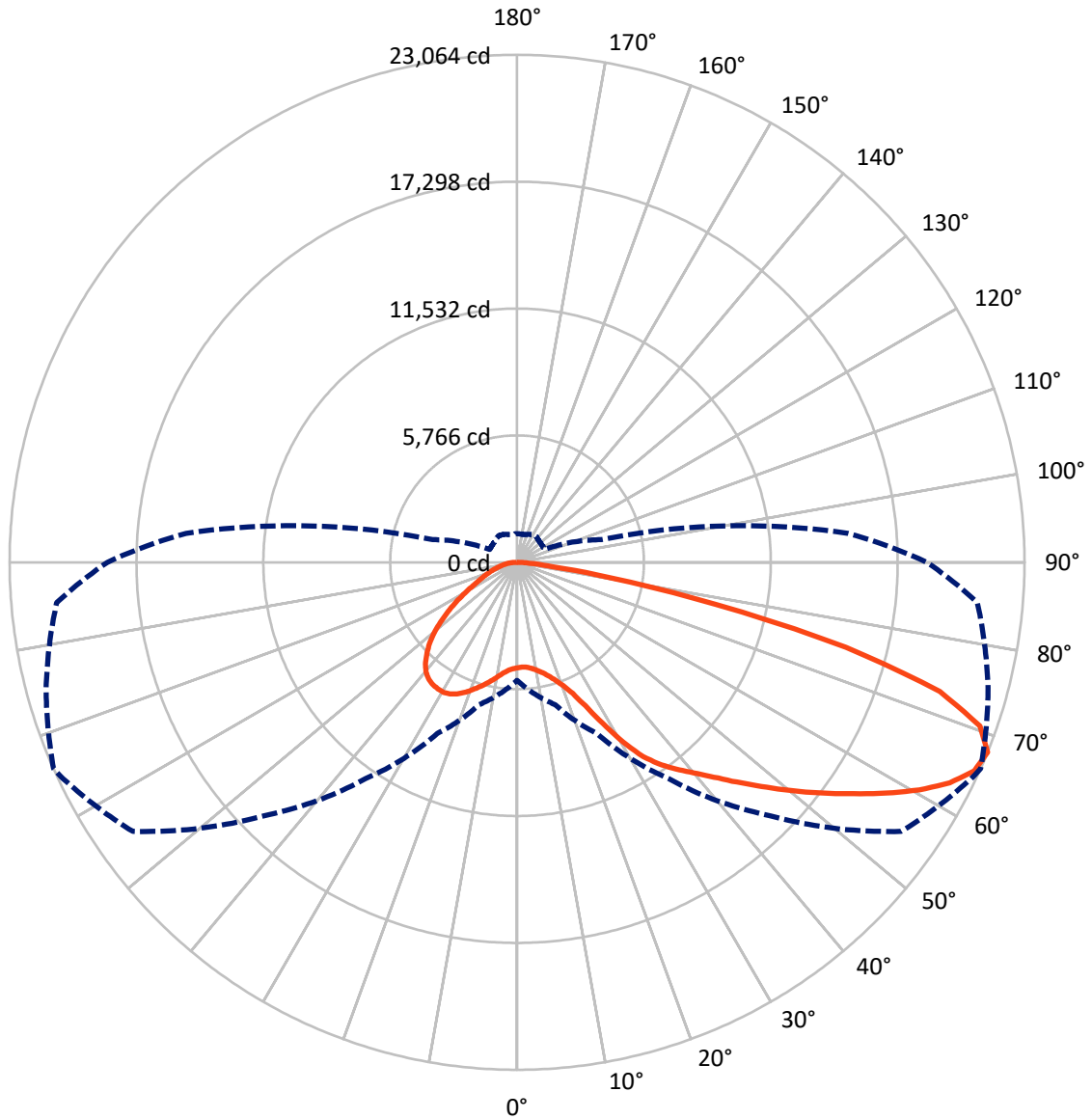
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10743.0	0.0	10743.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	32462.8	0.0	32462.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	43205.8	0.0	43205.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.1	1.1
10°-20°	1569.7	3.6
20°-30°	3025.6	7.0
30°-40°	5304.9	12.3
40°-50°	7886.7	18.3
50°-60°	9997.1	23.1
60°-70°	9781.9	22.6
70°-80°	4666.1	10.8
80°-90°	498.7	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°	43205.8	100.0
0°-180°	43205.8	100.0

Coefficient of Utilization

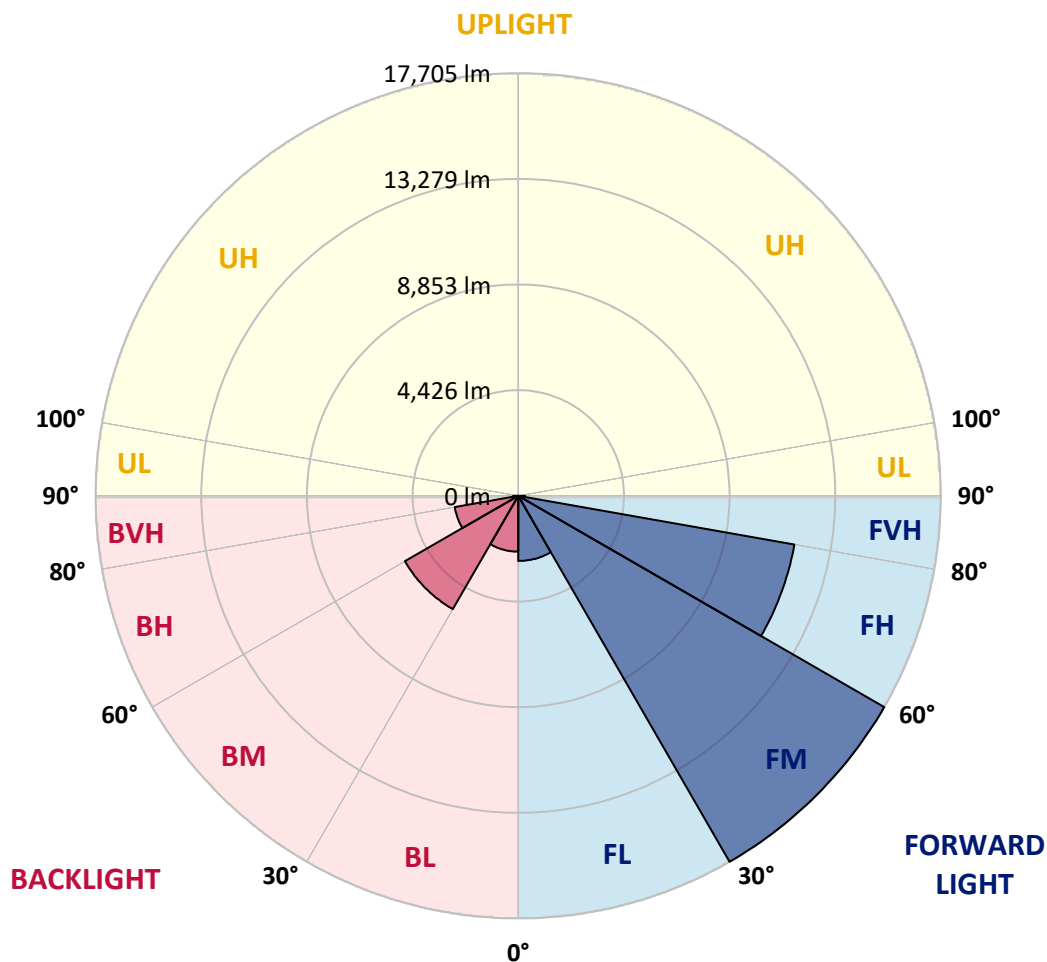


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.2	6.3			
FM (30°-60°)	17705.4	41.0			
FH (60°-80°)	11744.5	27.2			G4/12000
FVH (80°-90°)	282.7	0.7			G3/500
BL (0°-30°)	2340.2	5.4	B3/2500		
BM (30°-60°)	5483.3	12.7	B4/8500		
BH (60°-80°)	2703.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	215.9	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°	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1
2.5°	4742.2	4769.4	4762.6	4751.2	4748.9	4753.5	4760.3	4767.2	4764.8	4776.2	4794.3
5°	4728.5	4755.8	4753.5	4753.5	4762.6	4780.7	4792.1	4803.5	4792.1	4805.7	4830.7
7.5°	4737.7	4758.0	4767.2	4776.2	4798.9	4833.0	4860.2	4885.2	4871.5	4887.4	4919.2
10°	4853.4	4869.3	4878.4	4878.4	4894.3	4932.8	4960.1	5005.5	4994.1	5019.1	5059.9
12.5°	5064.5	5080.4	5080.4	5071.3	5082.7	5107.7	5116.7	5166.6	5146.2	5187.1	5227.9
15°	5323.3	5355.1	5330.1	5314.2	5318.7	5343.7	5341.5	5380.0	5359.6	5393.7	5429.9
17.5°	5609.3	5650.2	5609.3	5607.1	5597.9	5625.2	5627.5	5661.5	5625.2	5650.2	5675.1
20°	5947.6	6004.3	5970.2	5981.6	5961.2	5972.6	5983.8	6033.9	5977.1	5995.2	5988.5
22.5°	6424.3	6492.3	6456.1	6499.2	6485.6	6476.5	6474.2	6562.8	6474.2	6481.0	6415.2
25°	7118.9	7200.6	7137.1	7196.1	7196.1	7225.6	7259.7	7373.1	7225.6	7182.5	7012.2
27.5°	8145.0	8226.6	8101.8	8138.2	8126.8	8199.5	8163.1	8444.7	8285.7	8215.4	7872.6
30°	9379.9	9525.1	9289.1	9280.0	9268.7	9384.4	9436.7	9622.8	9461.6	9391.3	8978.1
32.5°	10714.6	10866.7	10585.3	10503.6	10460.4	10530.8	10487.7	10637.4	10526.2	10417.3	9906.5
35°	12126.7	12276.5	12008.6	11849.7	11677.2	11529.6	11375.2	11413.9	11309.4	11143.7	10614.8
37.5°	13461.4	13736.1	13452.4	13282.2	12964.3	12676.0	12244.6	12065.4	11967.8	11815.7	11282.2
40°	14821.2	14977.8	14762.2	14616.9	14271.9	13820.1	13130.0	12750.9	12619.3	12471.7	12020.0
42.5°	15822.3	15972.2	15856.3	15756.5	15486.3	14961.9	14069.9	13595.4	13404.7	13239.0	12855.3
45°	16616.8	16728.1	16655.4	16691.7	16576.0	16067.5	15043.7	14501.1	14303.7	14101.6	13799.7
47.5°	16936.9	17055.0	17170.7	17386.4	17583.9	17209.3	16090.1	15481.8	15272.9	15066.4	14769.0
50°	16900.6	17020.9	17356.8	17815.4	18428.4	18303.5	17193.5	16526.1	16333.1	16097.0	15822.3
52.5°	16610.0	16746.2	17177.6	17940.3	18916.4	19123.0	18317.1	17604.3	17422.7	17141.2	16866.6
55°	15847.3	15929.0	16576.0	17656.5	19032.2	19695.1	19418.1	18753.0	18571.4	18178.6	17879.0
57.5°	14433.0	14551.1	15493.2	16891.5	18741.6	20083.2	20385.1	19960.6	19785.9	19220.6	18907.4
60°	12587.5	12775.9	13854.2	15606.6	18001.6	20081.0	21263.6	21147.9	21002.6	20246.6	19919.7
62.5°	10499.0	10717.0	11754.4	13790.7	16707.6	19511.2	21813.0	22142.2	22067.2	21193.3	20775.6
65°	8063.3	8213.1	9245.9	11441.0	14694.1	18287.6	21876.6	22820.9	22834.5	21912.9	21222.8
67.5°	5368.6	5800.0	6696.6	8585.4	11997.2	16287.7	21318.2	22932.1	23063.8	22160.3	20998.0
70°	2619.7	3187.1	4065.7	5579.8	8585.4	13220.9	19858.5	22019.6	22312.4	21438.4	19658.7
72.5°	1087.3	1271.2	1750.2	2753.6	4928.3	8921.3	16925.5	19545.2	20087.7	18995.8	16528.3
75°	733.2	794.5	1001.1	1411.9	2245.1	4399.4	12206.1	14573.8	15447.8	14346.8	11727.1
77.5°	565.3	603.8	728.7	987.5	1334.8	1664.0	6533.2	8782.8	9234.6	8549.0	6101.9
80°	445.0	474.5	544.8	719.7	946.6	889.9	2226.9	3979.5	4240.4	3557.2	1961.3
82.5°	385.9	397.3	390.4	488.1	628.8	519.9	730.9	1468.7	1620.8	1175.9	640.1
85°	279.2	311.0	324.6	302.0	333.7	263.3	299.6	519.9	572.1	510.8	360.9
87.5°	113.5	168.0	206.5	195.3	122.6	74.9	93.1	152.1	174.8	190.6	118.1
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°	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1	4792.1
2.5°	4796.6	4812.5	4823.9	4837.5	4846.6	4860.2	4887.4	4903.3	4905.5	4916.9	4914.7
5°	4839.7	4862.5	4887.4	4923.8	4964.6	4998.7	5050.9	5087.2	5100.8	5112.2	5109.9
7.5°	4932.8	4964.6	5010.0	5073.5	5132.6	5178.0	5241.5	5284.7	5327.8	5343.7	5346.0
10°	5071.3	5116.7	5182.5	5268.8	5332.4	5391.4	5457.2	5493.6	5536.6	5554.9	5563.9
12.5°	5243.8	5291.5	5377.8	5498.1	5557.1	5597.9	5620.7	5611.6	5620.7	5636.6	5641.1
15°	5441.3	5493.6	5591.2	5720.5	5761.4	5725.1	5675.1	5629.7	5622.9	5627.5	5643.3
17.5°	5675.1	5713.8	5827.2	5936.2	5906.7	5756.9	5648.0	5575.3	5538.9	5527.6	5543.5
20°	6002.0	6002.0	6095.1	6163.2	5965.7	5711.5	5541.3	5423.2	5348.2	5316.5	5309.7
22.5°	6399.3	6363.0	6422.0	6374.4	5954.3	5584.3	5348.2	5144.0	5030.5	4985.1	4978.2
25°	6903.3	6860.1	6844.2	6549.1	5872.6	5382.3	4998.7	4751.2	4651.3	4626.3	4631.0
27.5°	7663.7	7554.8	7348.2	6644.5	5722.8	5064.5	4590.1	4360.8	4304.1	4306.3	4313.1
30°	8676.2	8458.2	7952.1	6660.3	5477.7	4615.1	4172.4	4008.9	3981.7	3993.0	4031.6
32.5°	9613.7	9407.1	8569.5	6587.7	5100.8	4174.6	3797.8	3688.9	3648.0	3661.6	3679.7
35°	10349.2	10292.4	9141.6	6485.6	4637.7	3761.4	3461.8	3368.8	3289.3	3271.2	3284.8
37.5°	11043.9	11021.1	9570.5	6342.5	4179.1	3468.6	3191.7	3069.2	2953.3	2889.8	2892.0
40°	11806.6	11783.9	9852.1	6122.3	3772.8	3214.4	2948.8	2787.6	2644.6	2528.9	2540.2
42.5°	12664.7	12530.7	9986.0	5806.8	3427.8	2998.7	2751.3	2533.4	2345.0	2238.3	2245.1
45°	13602.2	13300.3	9983.7	5405.0	3137.2	2801.2	2540.2	2231.4	2056.7	1956.8	1952.2
47.5°	14596.5	14035.7	9861.1	4960.1	2855.8	2583.3	2213.3	1977.2	1861.4	1800.2	1786.6
50°	15622.5	14723.6	9652.3	4449.3	2567.4	2335.9	2009.0	1847.9	1759.3	1702.5	1682.1
52.5°	16587.4	15347.8	9400.3	3870.4	2274.6	2095.3	1918.2	1793.3	1700.3	1636.7	1609.5
55°	17484.0	15885.9	9043.9	3278.0	2036.3	1934.1	1875.0	1770.7	1664.0	1589.1	1559.5
57.5°	18280.8	16235.5	8428.7	2721.8	1866.0	1822.9	1829.6	1732.0	1609.5	1545.9	1505.0
60°	18943.6	16491.9	7518.5	2206.5	1727.5	1713.9	1759.3	1659.4	1516.4	1443.7	1411.9
62.5°	19340.9	16487.4	6401.5	1807.0	1609.5	1614.0	1666.2	1568.7	1423.3	1355.3	1334.8
65°	19306.9	16083.4	5175.7	1545.9	1496.0	1500.5	1568.7	1468.7	1346.1	1305.2	1303.0
67.5°	18623.5	15098.1	3970.3	1375.7	1371.1	1391.5	1471.0	1400.7	1298.5	1294.0	1300.7
70°	16773.5	13052.9	2860.3	1239.4	1241.7	1271.2	1375.7	1357.5	1273.5	1282.6	1280.3
72.5°	13450.0	9951.9	1920.4	1096.4	1098.7	1146.4	1284.8	1323.5	1248.6	1368.9	1387.0
75°	8957.7	6206.4	1234.9	944.3	946.6	1007.9	1205.4	1257.6	1180.4	1364.3	1375.7
77.5°	4304.1	2789.9	894.4	794.5	794.5	851.3	1041.9	1126.0	1005.6	1060.2	971.6
80°	1486.9	1048.8	703.8	640.1	626.6	665.1	878.5	976.1	867.2	799.1	749.1
82.5°	585.7	544.8	565.3	497.1	451.7	476.7	683.3	805.9	637.9	576.6	574.3
85°	336.0	354.1	399.5	329.1	261.1	292.8	501.6	578.8	481.2	424.5	433.6
87.5°	90.8	124.8	183.9	170.3	118.1	124.8	238.3	320.1	277.0	213.4	220.2
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)