

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: P971338

Luminaire Tested: **NAV-SB6D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52148.9 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

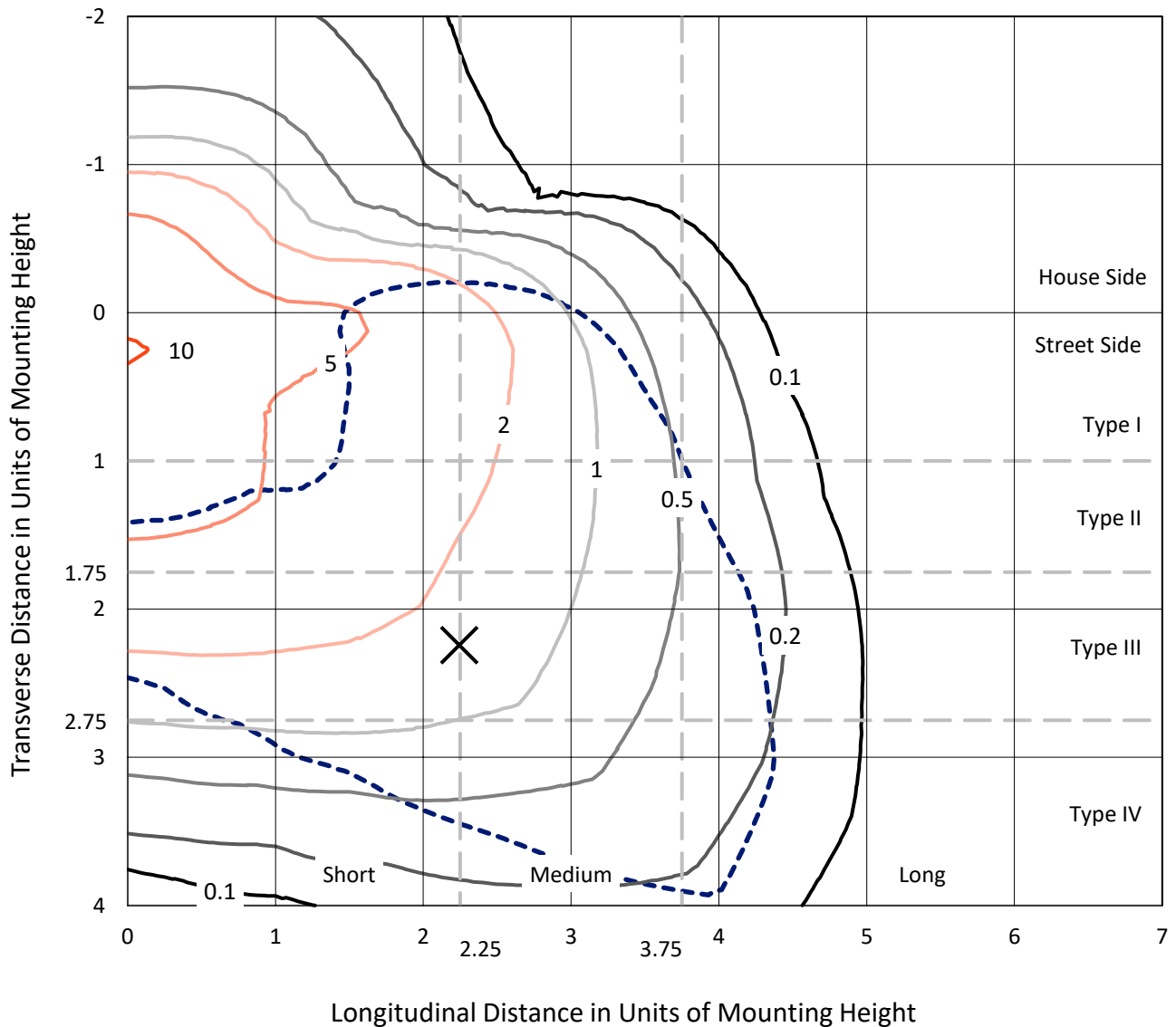
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

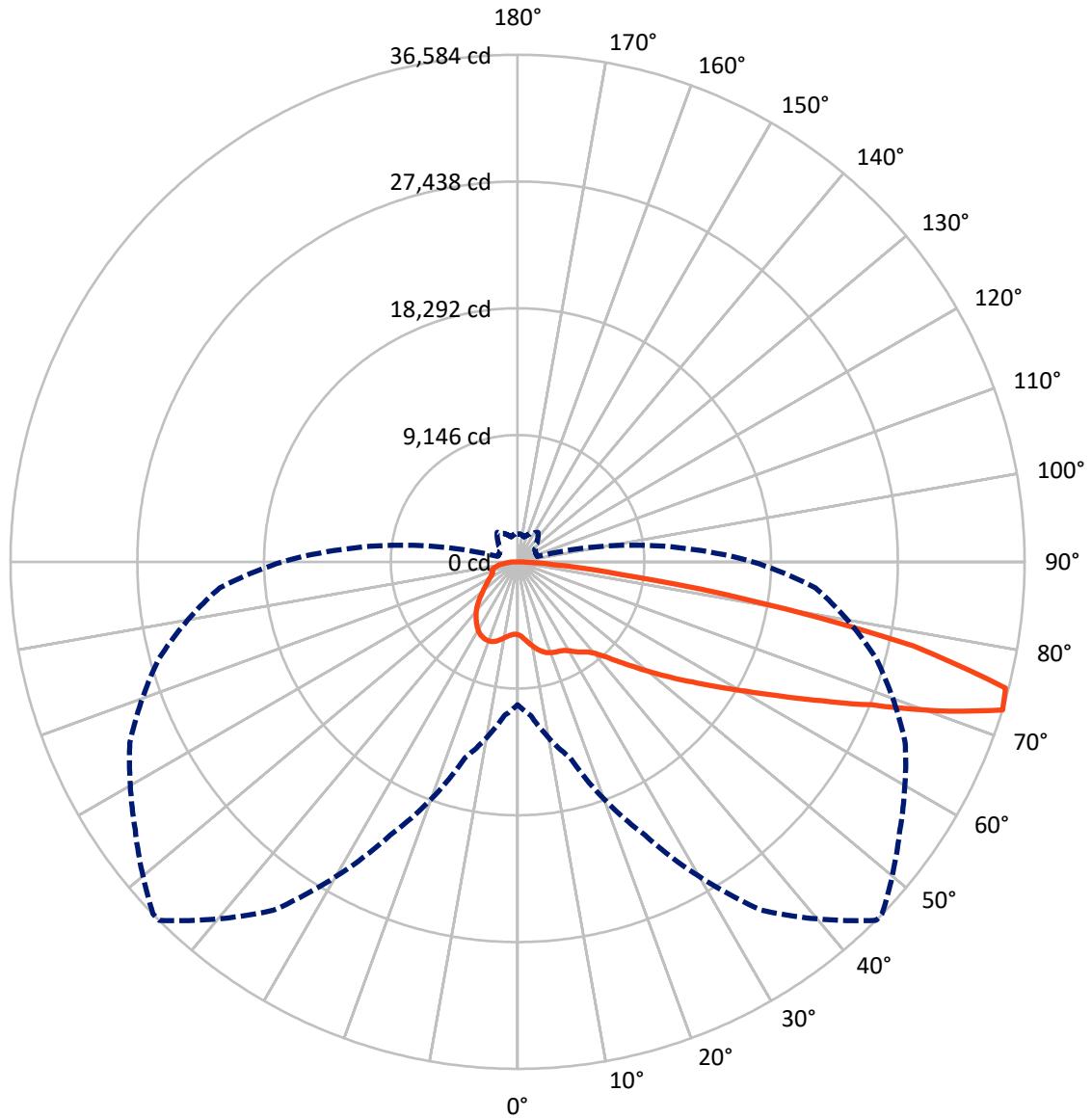
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11789.1	0.0	11789.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	40359.8	0.0	40359.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	52148.9	0.0	52148.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.4	1.0
10°-20°	1785.2	3.4
20°-30°	3105.5	6.0
30°-40°	4452.0	8.5
40°-50°	6268.6	12.0
50°-60°	9601.7	18.4
60°-70°	13909.5	26.7
70°-80°	11107.5	21.3
80°-90°	1383.4	2.7
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°	52148.9	100.0
0°-180°	52148.9	100.0

Coefficient of Utilization

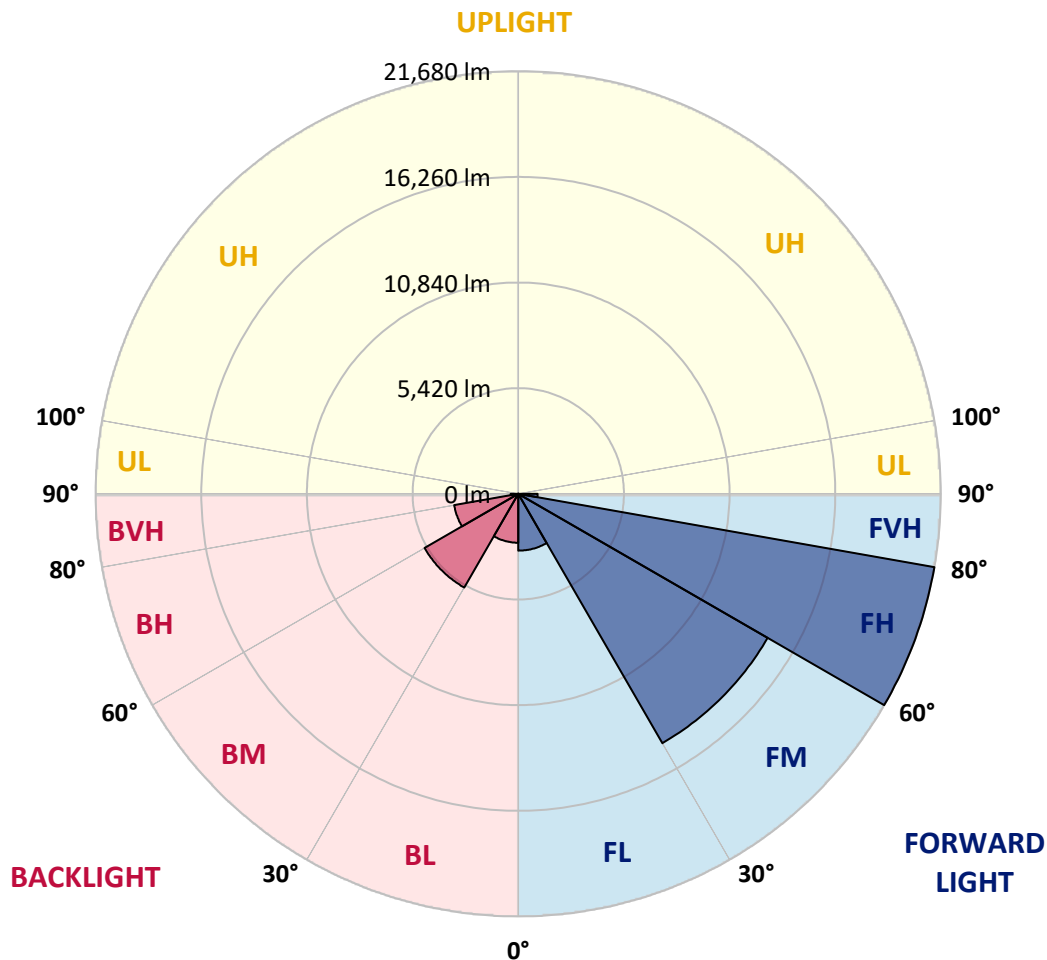


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.2	5.6			
FM (30°-60°)	14771.3	28.3			
FH (60°-80°)	21679.8	41.6			G5
FVH (80°-90°)	992.5	1.9			G5
BL (0°-30°)	2510.0	4.8	B4/5000		
BM (30°-60°)	5551.0	10.6	B4/8500		
BH (60°-80°)	3337.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	390.9	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8
2.5°	5466.8	5502.6	5469.6	5439.4	5425.6	5390.0	5387.2	5365.2	5351.4	5313.0	5302.0
5°	5848.8	5895.4	5840.4	5780.0	5725.0	5637.2	5626.2	5563.0	5491.5	5409.1	5362.5
7.5°	6280.0	6321.2	6258.0	6167.4	6071.2	5925.6	5922.9	5807.5	5694.9	5554.8	5475.1
10°	6656.4	6711.3	6626.1	6502.5	6381.6	6216.8	6197.6	6065.7	5922.9	5741.5	5620.7
12.5°	6988.8	7027.2	6944.8	6793.7	6653.6	6488.8	6464.1	6318.5	6159.1	5953.1	5799.2
15°	7252.5	7302.0	7192.0	7030.0	6881.6	6719.6	6697.6	6565.7	6406.4	6189.4	5991.5
17.5°	7425.6	7466.8	7354.2	7172.8	7030.0	6895.4	6878.9	6769.0	6628.9	6409.1	6197.6
20°	7491.5	7535.5	7417.3	7233.3	7101.4	6997.1	6988.8	6909.1	6813.0	6612.4	6398.2
22.5°	7557.4	7598.6	7444.8	7252.5	7137.1	7071.2	7068.4	7016.2	6977.8	6813.0	6604.2
25°	7823.9	7834.9	7628.9	7351.4	7186.6	7128.9	7126.1	7123.3	7139.8	7010.8	6826.7
27.5°	8054.7	8051.9	7876.1	7615.1	7359.6	7238.8	7236.0	7263.5	7315.7	7208.5	7057.4
30°	8392.6	8362.4	8153.6	7881.6	7648.1	7461.3	7444.8	7420.1	7461.3	7376.1	7288.3
32.5°	9109.6	9013.4	8675.5	8192.0	7887.1	7744.3	7722.2	7568.4	7584.9	7532.7	7488.8
35°	10137.0	10010.7	9560.1	8779.9	8183.8	7980.5	7969.5	7774.4	7741.5	7694.8	7711.3
37.5°	11359.5	11202.9	10678.2	9631.5	8694.8	8255.2	8238.7	8063.0	7928.3	7878.9	7972.2
40°	12587.5	12389.7	11955.6	10669.9	9447.5	8714.0	8661.8	8395.4	8241.5	8159.1	8356.8
42.5°	13779.8	13615.0	13244.0	11834.8	10376.0	9384.3	9268.9	8812.8	8697.5	8620.6	8977.8
45°	14834.6	14686.3	14414.4	13079.2	11463.9	10296.3	10183.7	9439.2	9403.6	9403.6	9919.9
47.5°	15691.8	15658.8	15370.4	14348.5	12746.8	11334.8	11139.7	10310.1	10406.2	10554.6	11257.9
50°	16642.3	16551.6	16244.0	15598.3	14255.0	12524.3	12365.0	11378.7	11738.6	12145.2	13191.9
52.5°	17515.9	17565.3	17221.9	16900.5	15958.2	13851.1	13571.0	12639.7	13417.1	14090.2	15458.2
55°	18414.2	18417.0	18320.8	18276.9	17743.9	15318.2	15010.5	14156.1	15392.3	16227.5	18101.0
57.5°	19257.6	19263.1	19405.9	19793.3	19815.3	17010.4	16661.5	16018.7	17587.4	18438.9	20826.3
60°	20010.4	20048.8	20438.9	21345.4	21636.6	18949.9	18620.3	18219.2	19856.5	20713.6	23691.5
62.5°	20263.0	20403.1	21271.2	22559.6	23436.0	21328.9	21004.8	20765.8	22241.0	23037.7	26087.1
65°	19834.5	20155.9	21834.4	23562.4	25287.6	24155.8	23834.3	23573.4	24718.9	25468.9	28054.0
67.5°	18782.3	19197.1	21801.4	24614.6	27534.8	27556.7	27257.3	26644.7	27375.5	27663.9	28694.1
70°	16010.5	16631.3	19881.2	25007.4	30114.4	32207.8	31919.2	30342.4	30026.5	28630.9	26891.9
72.5°	10315.6	11150.8	14639.7	21774.0	30688.5	36583.9	36567.5	33680.2	30864.4	26751.9	21567.9
75°	3763.6	4274.6	6802.0	13667.1	25760.1	36361.4	36468.6	33108.7	28174.9	20664.1	13436.3
77.5°	1370.8	1500.0	2219.7	5252.6	15842.9	29174.9	29397.4	26468.9	20054.2	10370.5	5324.0
80°	719.8	791.2	1137.3	2038.4	6788.3	17326.3	17675.2	15730.3	9425.5	3123.5	1596.1
82.5°	398.3	431.3	637.3	1107.1	3057.6	7409.1	7617.9	6214.1	3315.8	1324.1	659.3
85°	214.3	228.1	299.4	604.3	1494.4	2568.5	2626.3	1857.1	1321.4	777.5	318.7
87.5°	63.1	76.9	98.9	192.3	585.2	576.9	590.6	368.1	521.9	392.9	104.3
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°	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8	5260.8
2.5°	5285.5	5277.3	5247.1	5233.3	5216.8	5214.1	5227.8	5230.6	5233.3	5236.1	5247.1
5°	5335.0	5307.6	5280.1	5263.6	5269.0	5271.8	5299.2	5318.5	5332.3	5343.2	5348.8
7.5°	5431.2	5409.1	5362.5	5359.7	5367.9	5392.6	5428.4	5472.4	5497.1	5516.3	5521.8
10°	5574.0	5532.7	5477.8	5486.1	5502.6	5538.3	5612.5	5648.2	5689.4	5725.0	5716.8
12.5°	5719.6	5683.8	5620.7	5626.2	5653.7	5716.8	5788.3	5832.2	5859.7	5887.2	5898.2
15°	5909.1	5846.0	5777.3	5777.3	5826.7	5895.4	5928.4	5964.1	5980.6	6010.8	6021.8
17.5°	6104.2	6021.8	5931.2	5925.6	5986.1	6019.0	6038.3	6043.7	6049.2	6082.2	6093.2
20°	6299.2	6208.6	6079.5	6068.5	6082.2	6076.7	6073.9	6068.5	6076.7	6117.9	6134.4
22.5°	6491.5	6387.2	6208.6	6159.1	6120.7	6068.5	6065.7	6063.0	6068.5	6109.7	6137.2
25°	6716.8	6590.4	6351.4	6203.1	6073.9	6002.5	6010.8	6013.6	6019.0	6052.0	6096.0
27.5°	6961.3	6821.2	6483.3	6189.4	5955.9	5906.4	5892.6	5900.9	5920.1	5972.4	6024.5
30°	7205.7	7040.9	6604.2	6134.4	5807.5	5738.8	5694.9	5714.1	5774.5	5826.7	5884.4
32.5°	7428.3	7263.5	6700.3	6013.6	5617.9	5510.8	5453.1	5477.8	5538.3	5557.5	5626.2
35°	7689.3	7502.5	6741.5	5821.3	5411.9	5247.1	5170.2	5134.4	5164.7	5145.4	5205.9
37.5°	7980.5	7785.5	6736.0	5568.5	5170.2	4980.6	4873.5	4738.9	4675.6	4609.7	4650.9
40°	8411.8	8131.6	6670.1	5263.6	4870.7	4697.7	4505.4	4277.3	4134.4	4005.4	4013.6
42.5°	8999.7	8612.4	6549.2	4928.4	4532.9	4370.7	4109.7	3843.2	3618.0	3403.7	3384.6
45°	9876.1	9241.4	6398.2	4571.3	4167.4	4008.1	3725.2	3425.8	3170.2	2895.5	2862.5
47.5°	11139.7	10087.5	6255.3	4164.7	3782.9	3637.2	3381.8	3104.3	2802.1	2535.6	2505.4
50°	12875.9	11301.9	6123.5	3769.1	3403.7	3293.8	3090.6	2807.6	2502.6	2288.4	2274.7
52.5°	15084.6	12952.8	6068.5	3387.2	3049.4	3008.2	2846.0	2582.3	2293.8	2112.5	2098.8
55°	17620.3	14928.1	6068.5	3021.9	2738.9	2752.6	2640.0	2395.5	2145.5	1983.5	1967.0
57.5°	20208.1	16928.0	5958.6	2684.0	2475.2	2532.9	2461.4	2247.2	2021.9	1854.3	1826.9
60°	22592.6	18603.8	5513.6	2376.3	2241.7	2332.4	2285.6	2101.6	1826.9	1686.7	1664.8
62.5°	24425.0	19548.8	4656.5	2131.8	2049.4	2153.7	2129.0	1909.3	1791.2	1733.5	1714.2
65°	25342.5	19394.9	3560.3	1914.8	1887.3	2049.4	1997.2	1988.9	1895.5	1829.6	1807.6
67.5°	24779.4	18070.9	2582.3	1755.4	1793.9	1953.2	2153.7	2186.7	2013.7	1884.6	1862.5
70°	22309.6	15675.3	1923.0	1604.3	1675.8	1956.0	2456.0	2288.4	1975.2	1824.1	1799.4
72.5°	16971.9	11689.2	1491.7	1445.0	1521.9	1969.7	2590.6	2241.7	1865.3	2016.4	2000.0
75°	9705.7	6417.3	1197.7	1250.0	1329.6	1840.6	2521.9	2120.8	1780.1	1851.6	1851.6
77.5°	3700.5	2467.0	989.0	1057.7	1068.7	1607.1	2412.0	2112.5	1695.0	1653.8	1508.2
80°	1282.9	964.2	818.7	840.6	826.9	1428.5	2313.1	1837.8	1387.3	1241.7	1200.5
82.5°	524.7	480.7	648.3	620.8	587.9	1109.9	1868.1	1502.6	1134.6	1002.8	991.7
85°	228.1	304.9	428.6	376.4	340.6	769.2	1497.2	1271.9	958.8	826.9	824.1
87.5°	46.7	115.4	181.3	170.4	175.8	513.7	1063.1	903.8	678.6	508.2	398.3
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)