

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: P970821

Luminaire Tested: **NAV-SB6C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42198.2 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

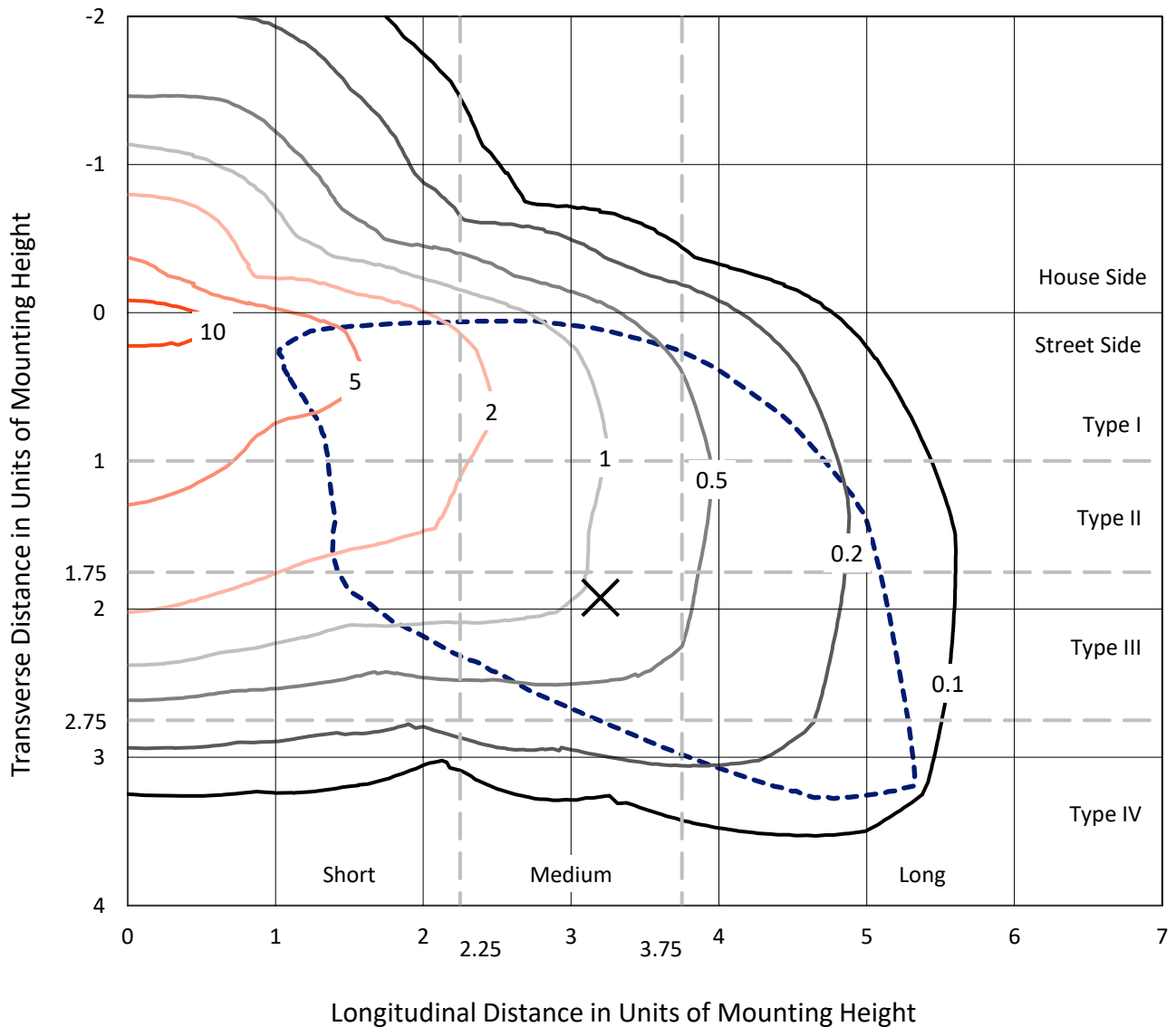
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

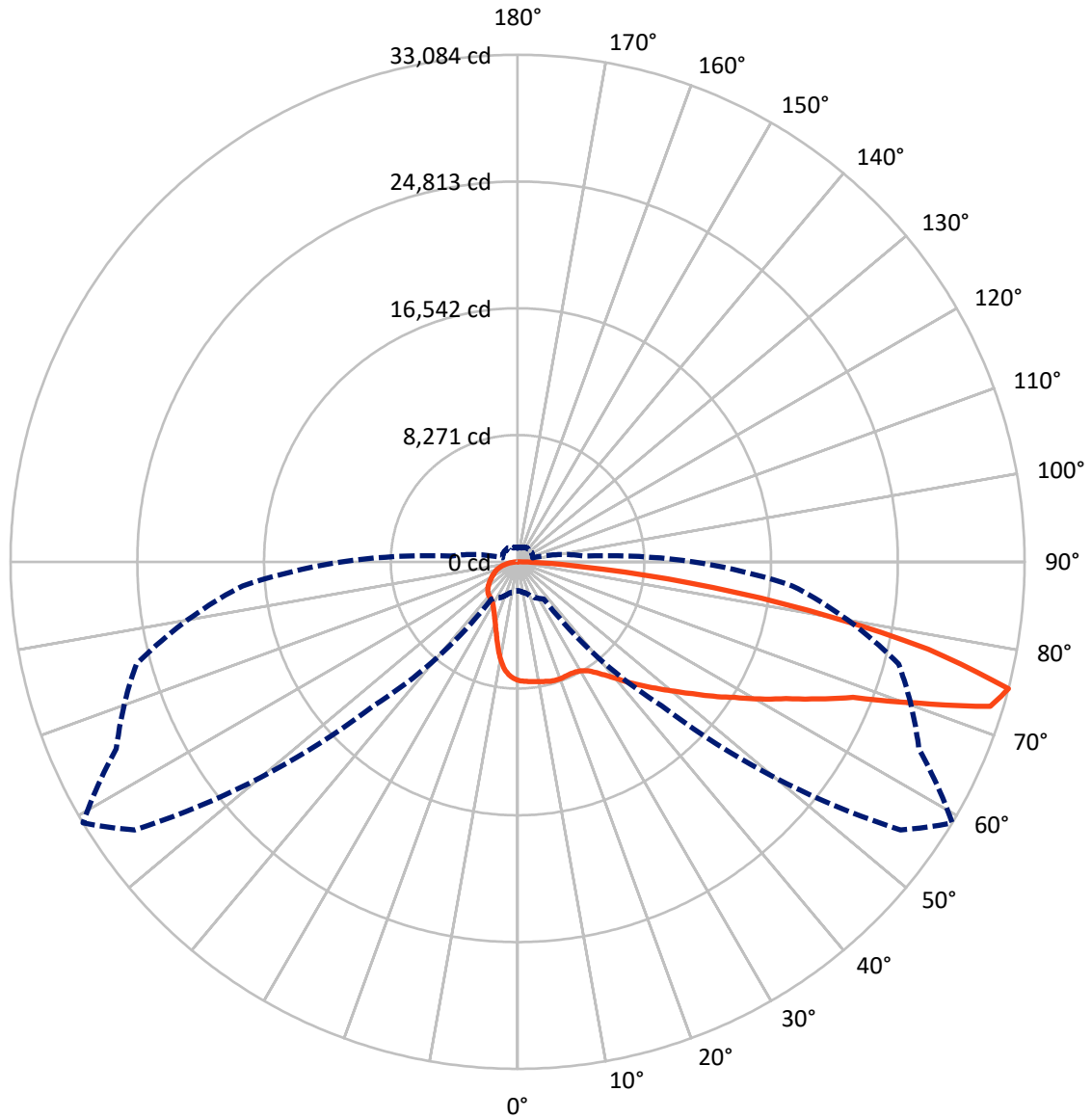
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7914.6	0.0	7914.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34283.7	0.0	34283.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	42198.2	0.0	42198.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.5	1.6
10°-20°	1775.2	4.2
20°-30°	2696.4	6.4
30°-40°	4008.1	9.5
40°-50°	5960.7	14.1
50°-60°	8091.0	19.2
60°-70°	9877.7	23.4
70°-80°	7751.9	18.4
80°-90°	1342.8	3.2
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°	42198.2	100.0
0°-180°	42198.2	100.0

Coefficient of Utilization

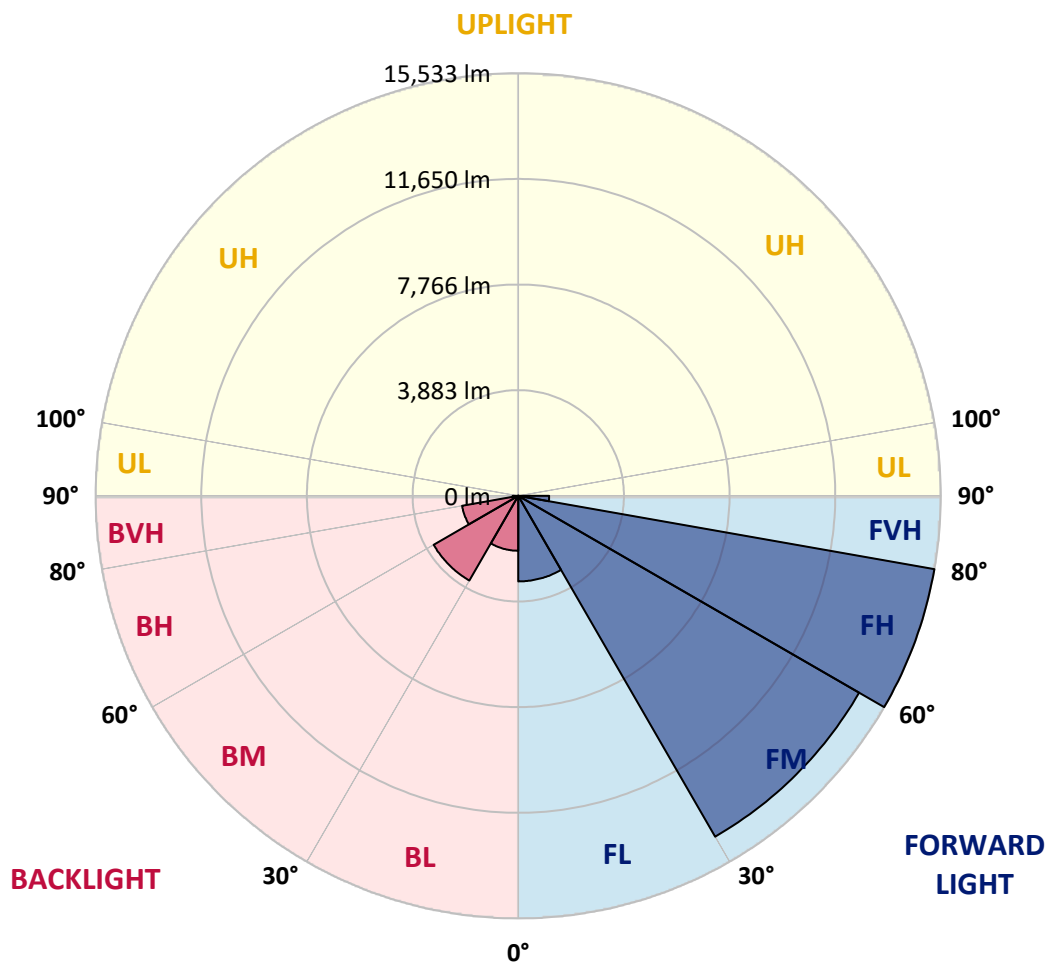


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3146.3	7.5			
FM (30°-60°)	14467.3	34.3			
FH (60°-80°)	15532.8	36.8			G5
FVH (80°-90°)	1137.3	2.7			G5
BL (0°-30°)	2019.7	4.8	B3/2500		
BM (30°-60°)	3592.4	8.5	B3/5000		
BH (60°-80°)	2096.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	205.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4
2.5°	7811.2	7784.0	7811.2	7799.8	7795.3	7786.2	7788.6	7804.5	7795.3	7806.7	7768.1
5°	7759.0	7743.2	7770.3	7763.6	7793.1	7797.6	7827.1	7845.2	7856.6	7858.9	7829.4
7.5°	7672.7	7656.9	7695.5	7727.3	7790.8	7809.0	7870.3	7899.8	7915.7	7942.9	7899.8
10°	7357.2	7350.4	7445.7	7566.0	7715.9	7809.0	7902.0	7951.9	7977.0	8049.5	7999.6
12.5°	6798.8	6807.8	6932.7	7164.2	7463.9	7763.6	7938.3	8011.0	8049.5	8140.3	8117.7
15°	6265.3	6263.1	6399.3	6646.7	7066.7	7563.8	7956.5	8081.4	8147.2	8281.1	8262.9
17.5°	5956.6	5947.6	6042.9	6231.3	6621.7	7257.3	7911.1	8119.9	8260.7	8428.7	8412.8
20°	5899.8	5881.7	5931.7	6024.7	6301.6	6921.4	7793.1	8119.9	8351.5	8569.4	8560.3
22.5°	6106.4	6076.9	6056.5	6045.1	6167.7	6644.5	7659.1	8092.7	8485.5	8771.4	8755.6
25°	6521.9	6476.5	6372.0	6269.8	6233.5	6519.6	7541.1	8085.9	8685.2	9043.9	8984.8
27.5°	7193.8	7137.0	6925.9	6680.7	6460.6	6583.2	7488.9	8126.7	8905.4	9332.1	9214.1
30°	8026.9	7965.6	7700.0	7323.1	6928.2	6819.2	7554.7	8247.0	9186.9	9715.8	9484.2
32.5°	8773.7	8705.6	8478.6	8094.9	7561.5	7227.8	7763.6	8476.3	9629.6	10249.3	9890.5
35°	9436.6	9357.1	9152.8	8798.7	8337.9	7802.1	8140.3	8882.6	10258.3	11116.4	10442.2
37.5°	10085.8	9992.7	9770.3	9395.7	9073.4	8567.2	8660.2	9404.8	11093.7	12169.7	11173.1
40°	10812.2	10678.2	10408.2	10038.1	9724.9	9463.8	9343.5	10044.9	11942.7	13345.6	12085.7
42.5°	11516.0	11388.8	11066.5	10750.9	10358.2	10283.3	10135.7	10794.1	12871.1	14637.2	13011.9
45°	12274.2	12122.1	11731.6	11332.1	11084.7	10828.1	10903.0	11543.1	13781.4	15953.9	13983.5
47.5°	12984.7	12814.4	12353.6	11908.7	11772.4	11286.7	11606.7	12367.2	14728.0	17288.7	14945.9
50°	13368.3	13200.3	12816.7	12414.9	12308.2	11851.9	12369.5	13272.9	15720.0	18618.9	15869.9
52.5°	13688.4	13506.7	13005.1	12782.6	12750.8	12467.1	13309.3	14308.1	16712.1	19794.8	16762.0
55°	14028.9	13826.8	13186.7	12987.0	13132.2	13157.2	14423.9	15481.7	17760.8	20941.2	17604.2
57.5°	14421.5	14165.1	13361.5	13159.5	13504.5	13965.3	15704.1	16698.5	18791.4	22003.6	18353.3
60°	14791.6	14532.9	13697.5	13434.2	13906.3	14902.9	17172.8	18171.7	19958.2	22950.2	19061.5
62.5°	14864.2	14650.8	13965.3	13963.1	14451.1	15997.0	18911.8	19658.6	20977.4	23885.4	19697.2
65°	13606.7	13472.7	13066.4	13942.6	15232.0	17572.4	20848.1	21560.9	22273.7	24702.6	20255.6
67.5°	10356.0	10374.1	10344.6	12035.8	14600.9	19835.6	23651.6	23597.1	23874.1	25619.7	20898.0
70°	4735.3	4842.0	5536.6	8308.3	11697.5	20096.7	28287.0	27581.0	25883.0	26806.9	21454.2
72.5°	2558.3	2640.1	2923.8	4024.8	7032.6	17867.5	31751.1	32252.8	28554.9	27606.0	20843.6
75°	1877.3	1922.7	2120.2	2558.3	2953.3	13279.8	30509.4	33083.6	28888.6	25742.3	17999.2
77.5°	1405.2	1425.6	1586.8	2027.1	1511.9	7000.9	24378.0	27399.5	24729.9	21150.0	13295.7
80°	1019.3	1041.9	1162.2	1520.9	1060.2	2560.7	16739.3	19231.8	16936.8	13481.8	6626.2
82.5°	703.7	712.8	765.0	1035.1	740.0	994.2	9497.9	11277.6	9454.7	4730.8	1788.8
85°	424.5	435.8	458.6	603.8	419.9	472.2	4099.7	4240.4	2826.2	1130.5	556.2
87.5°	174.8	186.1	204.3	254.2	165.7	131.7	676.5	849.0	528.9	331.4	172.5
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°	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4	7745.4
2.5°	7756.8	7740.8	7697.7	7638.7	7584.2	7516.1	7486.6	7461.6	7438.9	7395.8	7375.4
5°	7804.5	7761.3	7645.5	7495.7	7325.5	7139.3	6957.7	6832.9	6726.2	6646.7	6580.8
7.5°	7877.0	7795.3	7584.2	7277.8	6887.3	6487.7	6126.8	5870.4	5677.4	5607.1	5484.5
10°	7951.9	7854.4	7486.6	6946.3	6272.2	5657.0	5178.0	4914.7	4760.3	4710.4	4633.2
12.5°	8040.5	7897.5	7334.5	6485.5	5584.3	4910.1	4492.4	4338.0	4258.6	4231.4	4238.2
15°	8169.9	7933.8	7105.2	5908.9	4928.3	4365.3	4095.2	3988.5	3947.6	3945.3	3954.4
17.5°	8267.5	7940.6	6748.8	5291.5	4424.3	4036.1	3813.7	3772.8	3800.1	3840.9	3856.8
20°	8376.5	7879.3	6281.2	4728.5	4070.2	3747.8	3654.7	3682.0	3747.8	3806.8	3827.2
22.5°	8453.7	7768.1	5716.0	4290.3	3763.7	3582.2	3577.6	3634.3	3670.6	3700.1	3716.0
25°	8521.7	7579.7	5116.7	3922.7	3511.8	3482.2	3532.2	3514.0	3489.1	3514.0	3529.9
27.5°	8571.7	7282.3	4580.9	3600.3	3334.7	3414.2	3384.7	3343.8	3341.5	3355.1	3377.8
30°	8555.8	6885.0	4140.6	3293.8	3209.9	3287.1	3216.7	3209.9	3203.0	3209.9	3234.8
32.5°	8555.8	6433.3	3802.3	3082.7	3130.4	3100.8	3094.1	3078.2	3050.9	3048.7	3078.2
35°	8603.4	5981.6	3511.8	2969.2	3064.5	2994.2	2998.7	2960.1	2903.4	2876.1	2903.4
37.5°	8701.1	5618.3	3223.4	2914.7	2948.8	2946.6	2928.3	2862.5	2762.7	2676.4	2705.9
40°	8937.2	5511.6	3026.0	2889.8	2894.3	2921.6	2873.9	2746.8	2519.8	2379.0	2397.2
42.5°	9307.2	5691.0	2982.9	2828.5	2858.0	2885.3	2792.2	2497.0	2335.9	2251.9	2251.9
45°	9777.1	6004.2	3075.9	2739.9	2771.7	2819.4	2542.4	2401.7	2329.1	2331.4	2342.6
47.5°	10371.9	6333.4	3248.4	2662.7	2646.9	2674.1	2376.8	2290.5	2190.6	2215.5	2279.1
50°	11059.6	6667.1	3411.9	2558.3	2508.4	2419.8	2270.1	2188.3	2061.2	2002.1	2018.0
52.5°	11804.2	6989.5	3477.7	2431.2	2358.5	2256.4	2197.4	2097.6	1943.2	1845.5	1843.3
55°	12510.2	7282.3	3405.0	2279.1	2208.8	2129.3	2120.2	2058.9	1893.2	1757.1	1757.1
57.5°	13177.6	7527.5	3223.4	2124.7	2056.7	2009.0	2070.3	2040.8	1831.9	1657.1	1648.1
60°	13742.9	7695.5	2960.1	1968.1	1920.4	1895.5	1988.6	1979.5	1745.7	1550.4	1543.6
62.5°	14192.4	7761.3	2669.6	1818.4	1807.0	1761.6	1875.0	1875.0	1636.7	1446.0	1439.2
65°	14544.1	7697.7	2374.5	1670.7	1693.4	1625.3	1736.6	1722.9	1520.9	1352.9	1343.9
67.5°	14855.1	7488.9	2047.5	1525.5	1577.7	1491.4	1591.3	1559.5	1393.8	1259.8	1250.8
70°	14993.6	7003.1	1675.3	1380.2	1443.7	1359.8	1446.0	1387.0	1250.8	1160.0	1141.8
72.5°	13881.4	5820.4	1318.9	1228.1	1282.6	1214.5	1289.3	1221.3	1096.4	1055.5	1021.5
75°	11484.2	4367.5	1014.7	1062.4	1103.2	1051.0	1101.0	1051.0	937.6	967.1	883.0
77.5°	8340.1	2948.8	776.3	887.5	905.8	878.5	921.7	864.9	762.7	755.9	721.9
80°	4147.4	1727.5	608.3	701.4	694.6	676.5	726.4	699.2	612.9	649.2	642.5
82.5°	1200.9	740.0	442.7	492.6	479.0	483.5	519.9	533.4	799.1	792.2	810.4
85°	376.8	290.6	265.6	274.7	261.1	267.8	306.5	608.3	562.9	329.1	356.4
87.5°	97.6	99.8	65.8	70.4	72.7	86.3	97.6	370.0	177.0	115.7	122.6
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)