

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: P970010

Luminaire Tested: **NAV-SB6A-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26301.5 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 170.9
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

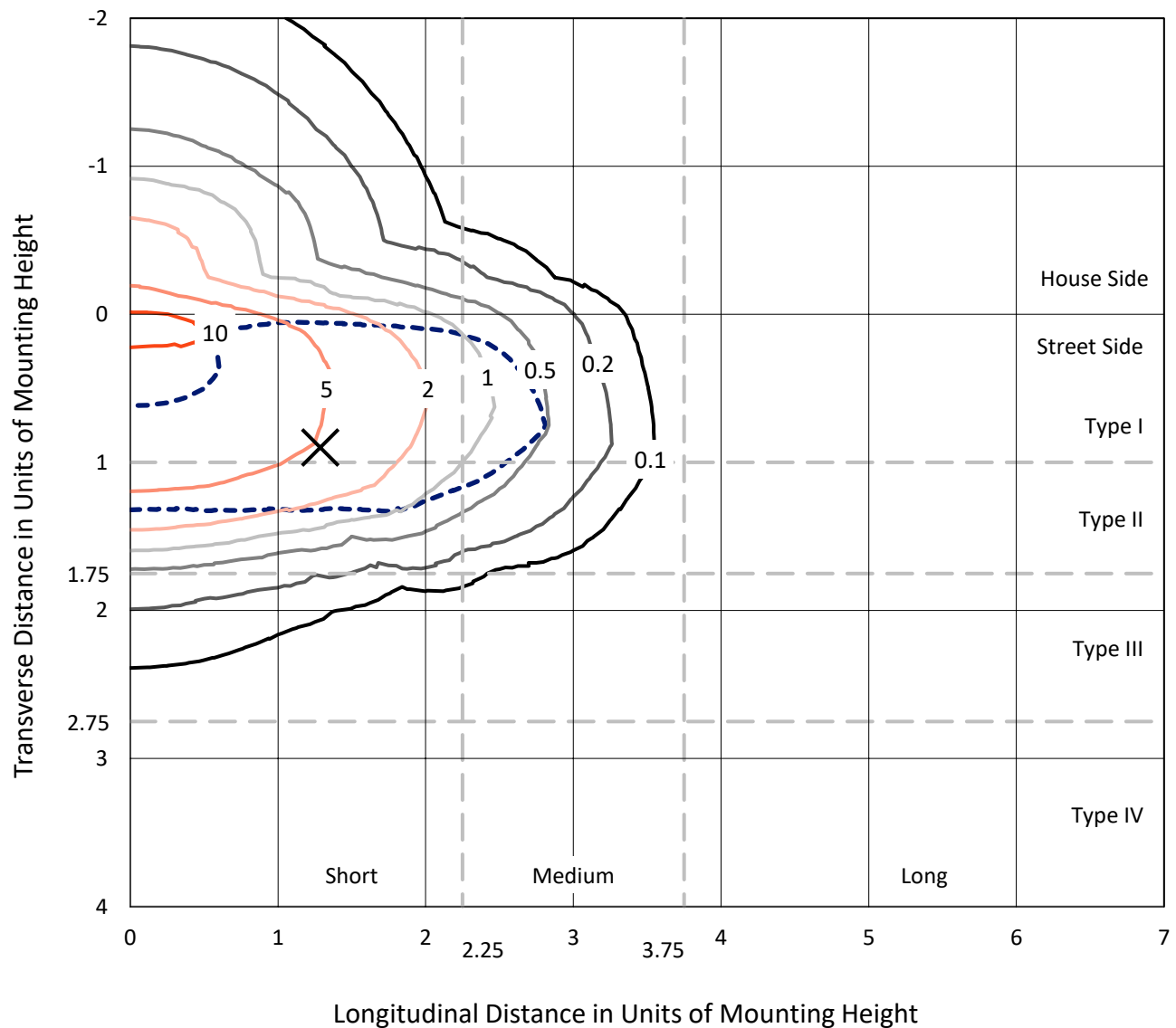


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Iso-Footcandle Lines of Horizontal Illumination

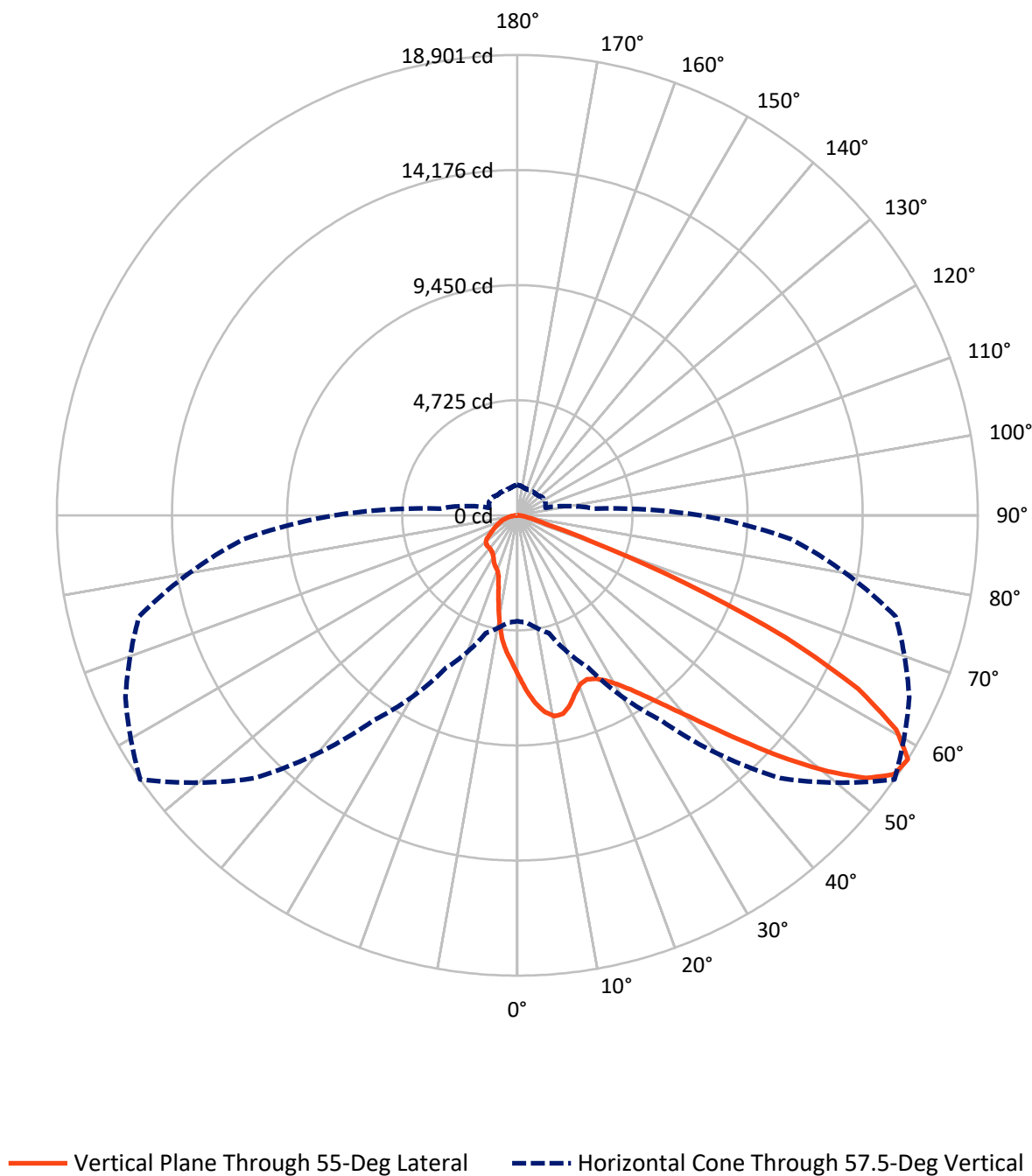
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4759.1	0.0	4759.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21542.4	0.0	21542.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	26301.5	0.0	26301.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.5	2.3
10°-20°	1543.6	5.9
20°-30°	2463.1	9.4
30°-40°	3899.7	14.8
40°-50°	5968.8	22.7
50°-60°	6393.2	24.3
60°-70°	4022.0	15.3
70°-80°	1189.4	4.5
80°-90°	210.3	0.8
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°	26301.5	100.0
0°-180°	26301.5	100.0

Coefficient of Utilization



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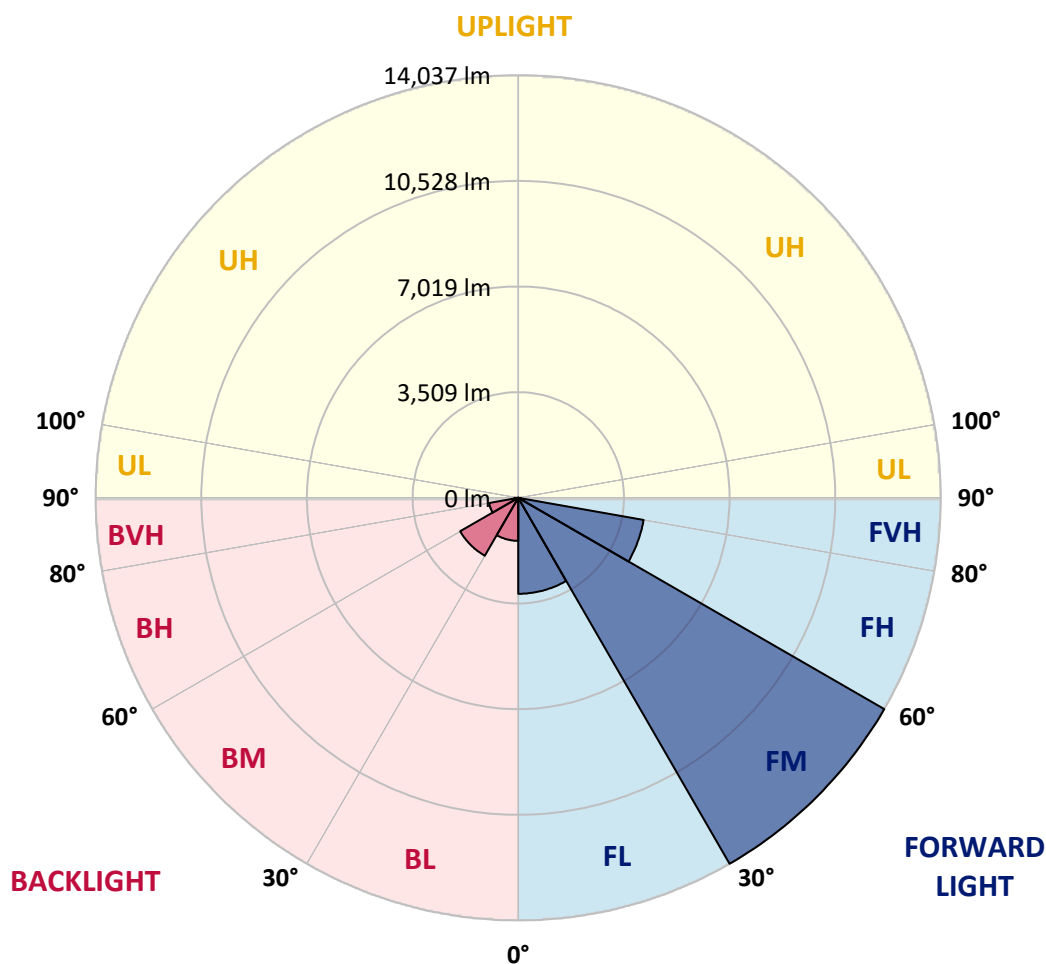
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3187.7	12.1			
FM	(30°-60°)	14037.3	53.4			
FH	(60°-80°)	4228.5	16.1			G2/5000
FVH	(80°-90°)	88.9	0.3			G1/100
BL	(0°-30°)	1430.4	5.4	B3/2500		
BM	(30°-60°)	2224.4	8.5	B2/2500		
BH	(60°-80°)	982.9	3.7	B2/1000		G2/1000
BVH	(80°-90°)	121.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3
2.5°	7561.1	7555.7	7585.6	7483.6	7414.2	7320.4	7196.7	7039.0	6869.0	6689.6	6612.1
5°	8242.3	8194.7	8225.9	8149.9	8073.7	7932.3	7748.7	7491.7	7177.7	6820.0	6629.7
7.5°	8134.9	8102.2	8182.5	8250.4	8307.5	8289.9	8155.3	7886.0	7480.9	6961.5	6685.5
10°	7268.8	7232.1	7344.9	7580.2	7925.5	8225.9	8389.1	8221.9	7790.9	7116.5	6739.9
12.5°	6504.6	6486.9	6561.7	6752.1	7135.5	7712.0	8359.2	8515.6	8113.1	7300.0	6813.3
15°	6178.3	6156.6	6204.1	6300.7	6545.4	7082.5	8087.2	8716.8	8429.9	7512.1	6930.2
17.5°	6106.2	6081.8	6102.1	6152.5	6310.2	6719.5	7676.6	8816.0	8760.4	7748.7	7028.1
20°	6239.5	6219.1	6221.9	6219.1	6329.3	6654.2	7391.2	8778.0	9048.6	7966.3	7123.3
22.5°	6561.7	6527.7	6529.1	6457.1	6516.8	6768.4	7316.3	8676.0	9305.6	8156.6	7195.4
25°	7086.5	7025.4	7037.6	6854.1	6837.8	7024.0	7433.3	8597.2	9561.2	8309.0	7208.9
27.5°	7804.5	7735.2	7698.5	7425.1	7294.6	7387.1	7671.2	8624.3	9803.2	8440.8	7175.0
30°	8701.8	8617.6	8542.8	8155.3	7918.7	7884.7	8041.0	8803.8	10088.8	8579.5	7116.5
32.5°	9801.9	9704.0	9568.0	9054.0	8720.9	8542.8	8519.7	9123.3	10423.2	8756.3	7086.5
35°	11111.2	10983.4	10790.3	10125.5	9704.0	9339.6	9150.6	9584.3	10881.4	9022.8	7120.6
37.5°	12460.0	12315.9	12139.1	11347.8	10829.7	10292.6	9920.2	10209.7	11491.9	9384.4	7210.3
40°	13704.0	13542.3	13377.8	12673.4	12117.3	11470.2	10862.3	11001.0	12238.4	9816.8	7362.6
42.5°	14438.3	14318.6	14256.1	13875.4	13445.7	12789.0	12034.4	11939.2	13077.3	10314.5	7536.6
45°	14405.7	14356.8	14549.8	14707.5	14605.5	14241.1	13407.7	12976.7	13918.9	10745.5	7697.0
47.5°	13636.1	13668.7	14099.7	14986.2	15376.4	15566.8	14971.3	13995.0	14650.4	11067.6	7769.1
50°	11542.2	11569.4	12567.4	14479.0	15575.0	16647.7	16522.7	14989.0	15217.4	11264.9	7752.8
52.5°	9884.8	9902.4	10330.8	12975.3	14919.6	17191.6	17920.4	15925.7	15632.1	11319.2	7661.7
55°	7445.5	7506.7	7986.7	10179.8	13214.6	16760.6	18771.5	16891.2	15894.5	11324.6	7566.6
57.5°	4349.6	4416.2	5009.0	6909.8	10270.9	15258.1	18900.7	17747.8	16072.6	11281.2	7509.5
60°	2130.6	2159.2	2417.5	3631.7	6333.4	12363.4	17862.0	18162.4	16171.8	11258.1	7506.7
62.5°	1435.8	1431.7	1442.6	1792.0	3120.4	7943.1	15697.4	17436.4	16118.8	11169.6	7479.5
65°	1234.6	1219.6	1178.9	1257.7	1616.6	3633.0	12128.2	15269.0	15715.0	10948.0	7293.3
67.5°	1067.3	1068.7	1070.1	1045.6	1154.4	1676.5	7411.6	12027.7	14265.6	9898.3	6575.4
70°	883.8	896.1	901.5	901.5	940.8	1099.9	3164.0	8243.7	11252.6	7761.0	5295.9
72.5°	804.9	779.1	781.8	768.2	768.2	837.5	1274.0	4673.2	7089.3	4365.9	3231.9
75°	656.7	673.0	675.8	666.2	635.0	639.1	755.9	1960.6	3033.4	1811.1	1597.6
77.5°	567.0	567.0	572.5	565.6	541.1	478.6	504.4	760.0	1032.0	742.4	798.2
80°	455.5	454.2	477.2	490.9	452.7	353.5	322.3	420.1	458.2	326.4	414.7
82.5°	221.6	235.2	327.7	373.9	344.0	255.6	197.1	261.1	244.8	144.1	186.2
85°	129.1	122.4	146.9	208.1	197.1	141.4	95.2	136.0	127.8	73.4	74.8
87.5°	40.8	38.0	29.9	70.7	57.1	39.5	25.8	39.5	35.4	16.3	16.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3	6590.3
2.5°	6515.5	6355.1	6196.0	6050.5	5962.1	5905.0	5847.9	5784.0	5759.6	5722.9
5°	6450.2	6140.3	5864.2	5626.3	5410.2	5240.1	5068.8	4930.1	4867.6	4909.8
7.5°	6412.2	5963.4	5537.9	5101.4	4681.4	4345.5	4053.2	3847.8	3755.4	3778.6
10°	6378.2	5763.6	5115.1	4425.7	3822.0	3406.0	3106.9	2950.5	2892.0	2904.2
12.5°	6346.9	5539.3	4605.2	3698.3	3056.5	2781.8	2696.3	2697.6	2708.5	2716.7
15°	6341.5	5268.7	4035.5	3062.0	2643.2	2625.5	2718.0	2776.4	2807.7	2817.2
17.5°	6333.4	4945.1	3454.9	2628.2	2542.6	2662.2	2747.9	2786.0	2810.4	2811.8
20°	6300.7	4534.5	2919.2	2421.6	2520.8	2624.2	2677.2	2707.1	2727.5	2734.3
22.5°	6200.1	4077.7	2501.8	2329.1	2433.8	2516.8	2579.3	2613.2	2625.5	2633.6
25°	6019.2	3566.4	2213.5	2240.8	2312.8	2417.5	2467.8	2474.6	2470.6	2482.8
27.5°	5782.6	3018.4	2034.0	2121.0	2213.5	2303.3	2330.4	2326.3	2318.2	2331.9
30°	5497.2	2526.2	1919.8	1986.4	2112.9	2194.5	2219.0	2209.5	2193.2	2208.1
32.5°	5195.3	2123.8	1826.0	1892.7	2030.0	2110.2	2134.7	2125.1	2112.9	2125.1
35°	4913.8	1842.3	1739.0	1830.1	1964.7	2043.5	2074.8	2076.2	2076.2	2091.2
37.5°	4655.4	1677.8	1667.0	1790.7	1919.8	1990.5	2035.4	2038.1	1979.7	1983.8
40°	4416.2	1608.5	1634.4	1764.8	1876.4	1944.3	1947.1	1794.8	1687.4	1684.6
42.5°	4220.4	1594.9	1643.8	1762.1	1845.1	1847.8	1656.1	1537.8	1507.9	1509.2
45°	4036.9	1590.8	1665.6	1762.1	1798.9	1596.2	1467.1	1435.8	1438.5	1449.5
47.5°	3831.6	1574.5	1669.6	1737.7	1665.6	1419.5	1381.4	1367.9	1362.4	1365.1
50°	3607.2	1516.1	1618.0	1688.7	1437.2	1343.4	1295.8	1291.7	1298.5	1302.6
52.5°	3370.6	1420.9	1529.6	1600.3	1332.5	1276.7	1223.7	1233.2	1263.1	1272.6
55°	3215.6	1309.3	1412.7	1423.5	1259.0	1214.2	1169.3	1191.0	1246.8	1264.4
57.5°	3174.8	1191.0	1279.4	1267.2	1165.2	1159.8	1132.6	1151.6	1222.3	1248.1
60°	3162.5	1085.0	1148.9	1139.4	1074.1	1099.9	1093.2	1102.7	1127.2	1135.3
62.5°	3067.4	1000.7	1032.0	1018.4	992.5	1037.4	1053.7	1033.3	1052.4	1061.9
65°	2825.4	932.7	917.8	908.3	919.1	959.9	992.5	951.8	969.4	996.6
67.5°	2425.7	840.3	799.5	810.4	844.4	866.1	908.3	862.0	877.0	923.2
70°	1962.0	723.3	686.6	717.9	750.5	795.4	802.2	770.9	806.3	857.9
72.5°	1388.3	605.1	579.2	643.1	653.9	712.5	697.5	682.5	731.5	749.2
75°	962.7	488.1	473.1	522.1	561.5	611.8	601.0	618.7	722.0	730.1
77.5°	609.2	379.4	369.8	401.1	455.5	511.3	528.9	730.1	1233.2	1282.2
80°	353.5	282.8	271.9	296.4	344.0	395.6	509.8	896.1	813.0	803.6
82.5°	197.1	194.4	180.8	187.7	229.8	285.6	720.6	630.9	512.6	528.9
85°	92.5	114.2	97.9	93.8	129.1	334.5	481.3	360.3	239.3	233.9
87.5°	24.5	21.7	21.7	24.5	54.4	288.2	191.7	153.6	91.1	88.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)