

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: P970506

Luminaire Tested: **NAV-SB6B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970506
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-SB6B-830-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31985.1 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 220.4
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



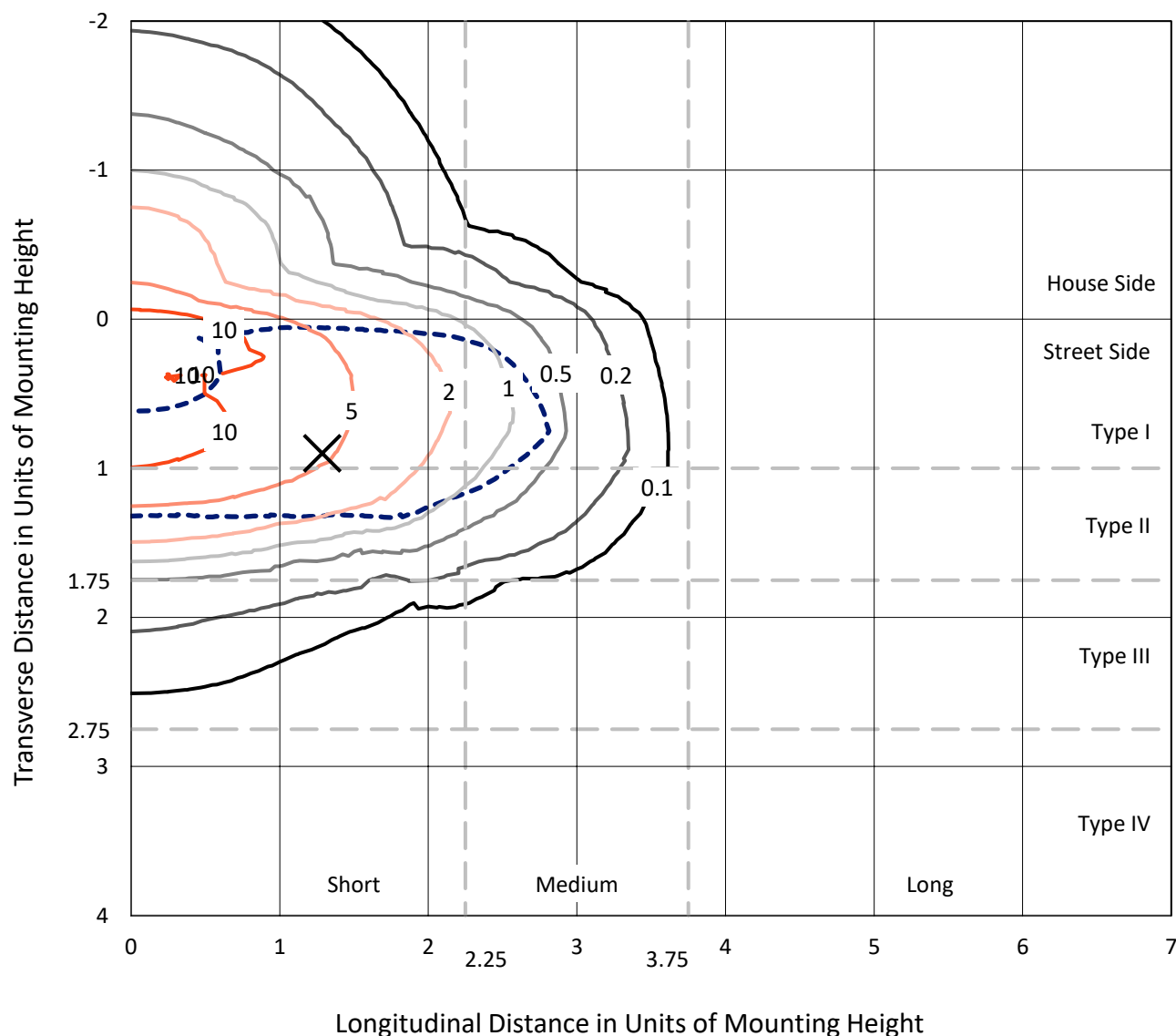
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

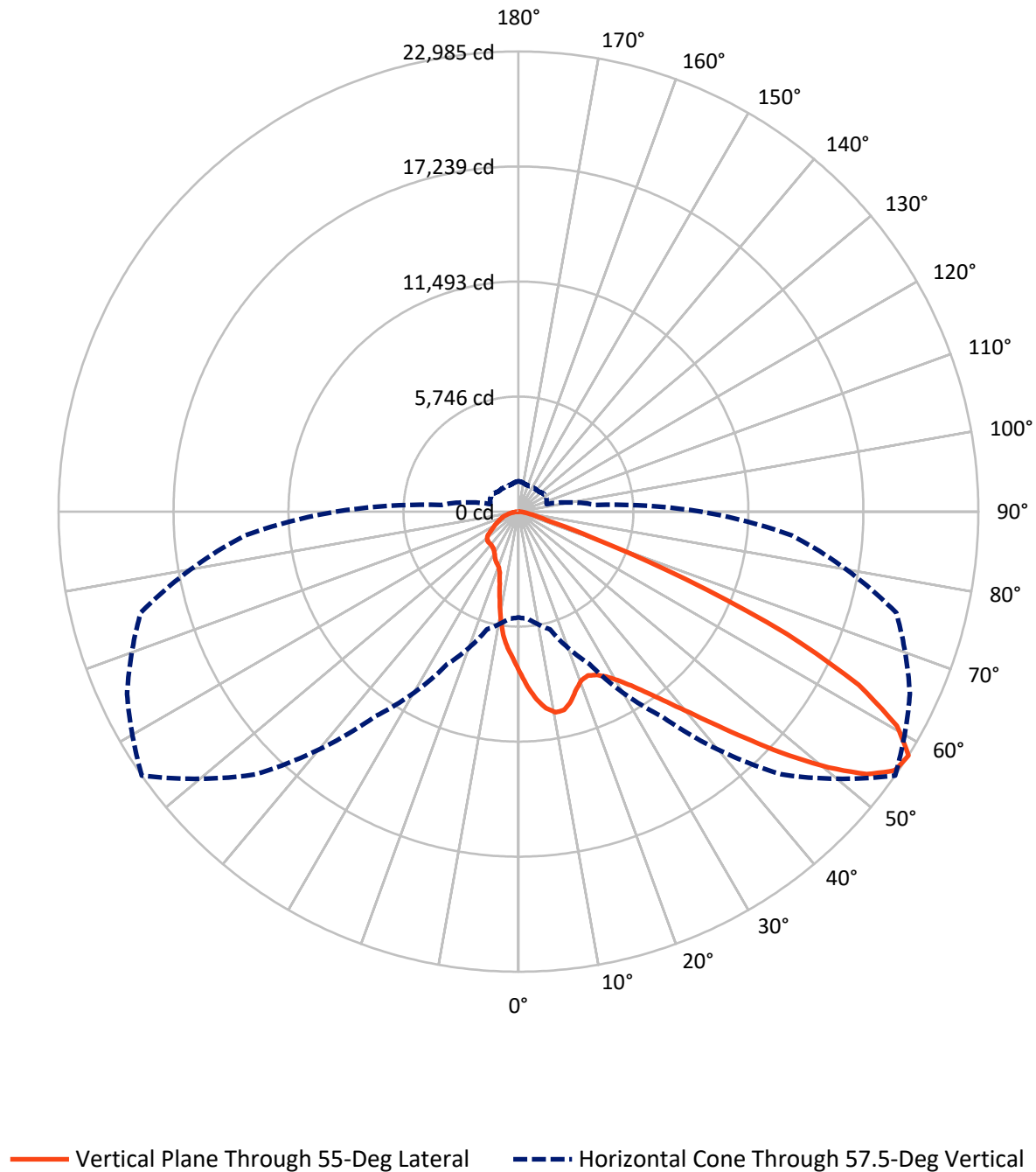


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc

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	5787.5	0.0	5787.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26197.6	0.0	26197.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	31985.1	0.0	31985.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.7	2.3
10°-20°	1877.1	5.9
20°-30°	2995.3	9.4
30°-40°	4742.4	14.8
40°-50°	7258.7	22.7
50°-60°	7774.7	24.3
60°-70°	4891.1	15.3
70°-80°	1446.4	4.5
80°-90°	255.7	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°	31985.1	100.0
0°-180°	31985.1	100.0

Coefficient of Utilization



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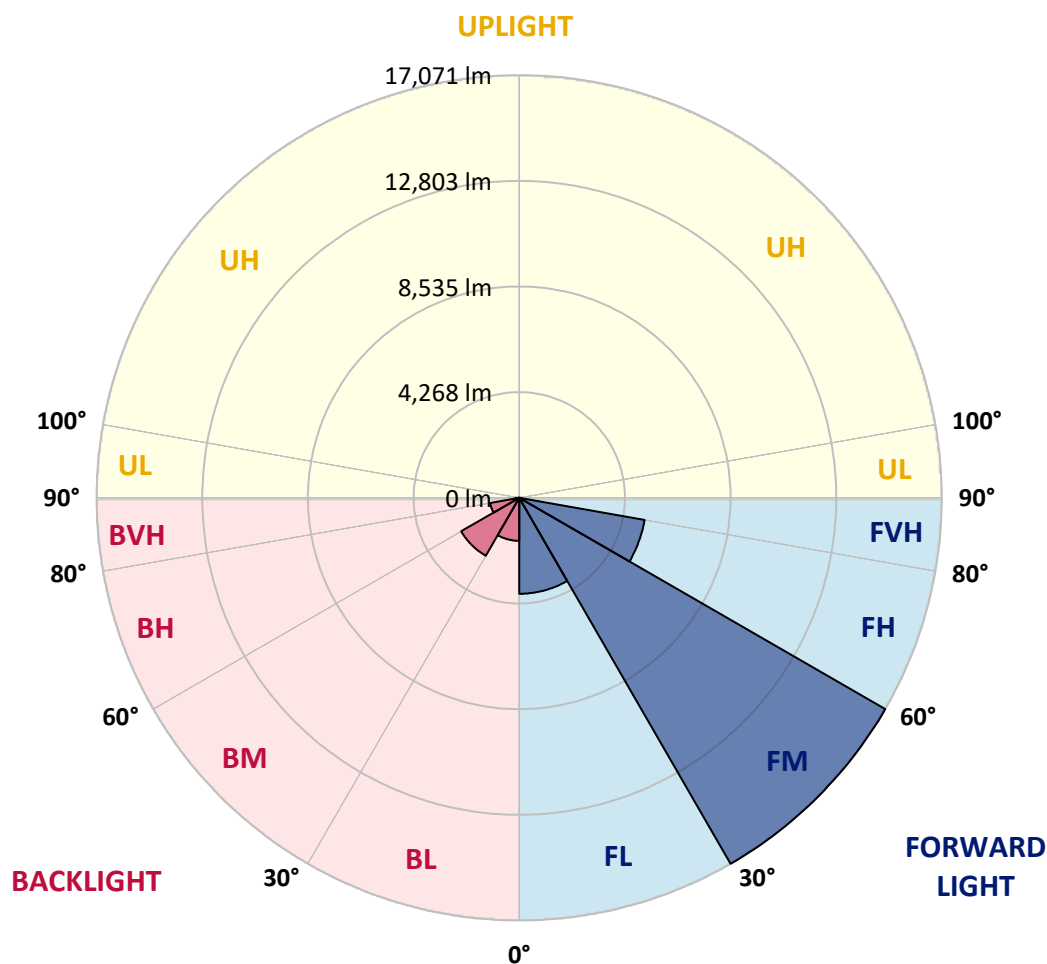
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3876.6	12.1			
FM	(30°-60°)	17070.7	53.4			
FH	(60°-80°)	5142.2	16.1			G3/7500
FVH	(80°-90°)	108.1	0.3			G2/225
BL	(0°-30°)	1739.5	5.4	B3/2500		
BM	(30°-60°)	2705.0	8.5	B3/5000		
BH	(60°-80°)	1195.3	3.7	B3/2500		G3/2500
BVH	(80°-90°)	147.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5
2.5°	9195.1	9188.4	9224.8	9100.8	9016.4	8902.3	8751.9	8560.1	8353.4	8135.1	8040.9
5°	10023.4	9965.6	10003.6	9910.9	9818.4	9646.4	9423.2	9110.7	8728.7	8293.9	8062.3
7.5°	9892.8	9853.1	9950.7	10033.3	10102.8	10081.3	9917.6	9590.2	9097.5	8465.9	8130.2
10°	8839.5	8794.9	8932.2	9218.1	9638.2	10003.6	10202.0	9998.6	9474.5	8654.4	8196.3
12.5°	7910.2	7888.8	7979.7	8211.2	8677.4	9378.5	10165.6	10355.8	9866.3	8877.5	8285.6
15°	7513.5	7487.0	7544.8	7662.3	7959.8	8613.0	9834.9	10600.4	10251.6	9135.5	8427.8
17.5°	7425.8	7396.0	7420.8	7482.0	7673.9	8171.5	9335.6	10721.2	10653.4	9423.2	8546.9
20°	7587.9	7563.1	7566.3	7563.1	7696.9	8092.2	8988.3	10674.9	11003.9	9687.8	8662.6
22.5°	7979.7	7938.4	7940.1	7852.4	7925.1	8231.1	8897.4	10550.8	11316.4	9919.2	8750.2
25°	8618.0	8543.6	8558.4	8335.2	8315.4	8541.9	9039.6	10455.0	11627.3	10104.4	8766.7
27.5°	9491.0	9406.6	9362.0	9029.6	8871.0	8983.4	9328.9	10488.0	11921.6	10264.9	8725.4
30°	10582.3	10479.8	10388.9	9917.6	9629.9	9588.6	9778.7	10706.3	12268.8	10433.5	8654.4
32.5°	11919.9	11800.9	11635.6	11010.6	10605.5	10388.9	10360.7	11094.9	12675.6	10648.4	8618.0
35°	13512.3	13356.9	13122.0	12313.5	11800.9	11357.8	11127.9	11655.4	13232.9	10972.5	8659.3
37.5°	15152.5	14977.3	14762.3	13800.0	13170.0	12516.9	12063.8	12416.0	13975.3	11412.3	8768.5
40°	16665.5	16468.7	16268.6	15412.1	14735.8	13948.8	13209.7	13378.3	14883.0	11938.2	8953.6
42.5°	17558.4	17412.8	17336.7	16873.8	16351.3	15552.6	14635.0	14519.2	15903.2	12543.3	9165.2
45°	17518.7	17459.1	17694.0	17885.7	17761.7	17318.6	16305.0	15780.8	16926.7	13067.5	9360.4
47.5°	16582.8	16622.4	17146.6	18224.7	18699.3	18930.7	18206.5	17019.3	17816.2	13459.4	9448.0
50°	14036.5	14069.5	15283.2	17608.0	18940.7	20245.3	20093.2	18228.0	18505.8	13699.1	9428.2
52.5°	12020.8	12042.3	12563.1	15779.2	18143.6	20906.6	21792.9	19367.3	19010.1	13765.2	9317.4
55°	9054.4	9128.9	9712.6	12379.6	16070.2	20382.5	22828.0	20541.2	19329.2	13771.9	9201.6
57.5°	5289.5	5370.5	6091.5	8403.1	12490.4	18555.4	22985.1	21582.9	19545.8	13718.9	9132.2
60°	2591.0	2625.7	2939.9	4416.4	7702.0	15035.1	21721.8	22087.2	19666.6	13690.8	9128.9
62.5°	1746.1	1741.2	1754.4	2179.3	3794.8	9659.6	19089.5	21204.3	19602.0	13583.4	9095.8
65°	1501.3	1483.2	1433.6	1529.5	1966.0	4418.1	14749.0	18568.6	19110.9	13313.8	8869.3
67.5°	1298.0	1299.6	1301.3	1271.5	1403.8	2038.7	9013.1	14626.7	17348.3	12037.4	7996.2
70°	1074.8	1089.7	1096.2	1096.2	1144.2	1337.6	3847.6	10025.1	13684.3	9438.1	6440.3
72.5°	978.9	947.4	950.8	934.2	934.2	1018.5	1549.3	5683.0	8621.3	5309.3	3930.4
75°	798.7	818.5	821.7	810.2	772.1	777.2	919.3	2384.4	3688.9	2202.4	1942.9
77.5°	689.5	689.5	696.1	687.9	658.0	582.0	613.5	924.3	1255.0	902.8	970.6
80°	553.9	552.3	580.4	596.9	550.6	429.9	391.9	511.0	557.2	396.9	504.3
82.5°	269.5	286.1	398.5	454.7	418.3	310.9	239.7	317.4	297.7	175.3	226.5
85°	157.0	148.8	178.6	253.0	239.7	172.0	115.7	165.3	155.4	89.3	90.9
87.5°	49.6	46.3	36.4	86.0	69.5	48.0	31.4	48.0	42.9	19.9	19.9
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°	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5	8014.5
2.5°	7923.5	7728.4	7534.9	7358.0	7250.5	7181.0	7111.7	7034.0	7004.1	6959.5
5°	7844.1	7467.1	7131.4	6842.1	6579.2	6372.5	6164.1	5995.5	5919.5	5970.7
7.5°	7797.8	7252.2	6734.7	6203.9	5693.0	5284.5	4929.0	4679.3	4566.9	4595.1
10°	7756.5	7009.2	6220.4	5382.1	4648.0	4142.0	3778.3	3588.0	3517.0	3531.8
12.5°	7718.5	6736.3	5600.4	4497.5	3717.1	3383.0	3278.9	3280.5	3293.7	3303.7
15°	7711.9	6407.3	4907.5	3723.6	3214.4	3192.9	3305.3	3376.5	3414.5	3426.1
17.5°	7702.0	6013.7	4201.5	3196.2	3092.0	3237.6	3341.7	3388.0	3417.8	3419.4
20°	7662.3	5514.4	3550.0	2944.8	3065.6	3191.2	3255.7	3292.1	3316.9	3325.2
22.5°	7539.9	4958.8	3042.4	2832.4	2959.7	3060.5	3136.7	3178.0	3192.9	3202.8
25°	7319.9	4337.1	2691.9	2725.0	2812.6	2939.9	3001.1	3009.3	3004.4	3019.2
27.5°	7032.2	3670.7	2473.6	2579.4	2691.9	2801.0	2834.0	2829.1	2819.2	2835.8
30°	6685.0	3072.1	2334.7	2415.7	2569.5	2668.7	2698.5	2686.9	2667.0	2685.3
32.5°	6318.0	2582.7	2220.7	2301.6	2468.6	2566.2	2596.0	2584.4	2569.5	2584.4
35°	5975.6	2240.4	2114.8	2225.6	2389.3	2485.2	2523.2	2524.9	2524.9	2543.0
37.5°	5661.5	2040.4	2027.1	2177.6	2334.7	2420.7	2475.3	2478.6	2407.5	2412.4
40°	5370.5	1956.1	1987.5	2146.2	2281.9	2364.5	2367.8	2182.6	2051.9	2048.7
42.5°	5132.4	1939.5	1999.1	2142.9	2243.8	2247.1	2013.9	1870.1	1833.7	1835.4
45°	4909.2	1934.6	2025.5	2142.9	2187.6	1941.1	1784.1	1746.1	1749.4	1762.6
47.5°	4659.5	1914.7	2030.5	2113.1	2025.5	1726.2	1680.0	1663.4	1656.8	1660.1
50°	4386.7	1843.7	1967.7	2053.6	1747.7	1633.6	1575.7	1570.8	1579.1	1584.0
52.5°	4099.0	1727.8	1860.2	1946.2	1620.4	1552.7	1488.1	1499.7	1536.1	1547.6
55°	3910.5	1592.3	1718.0	1731.2	1531.1	1476.5	1422.0	1448.4	1516.3	1537.7
57.5°	3860.9	1448.4	1555.9	1541.1	1417.1	1410.4	1377.4	1400.5	1486.5	1517.9
60°	3846.0	1319.5	1397.2	1385.6	1306.3	1337.6	1329.4	1341.0	1370.7	1380.7
62.5°	3730.3	1217.0	1255.0	1238.5	1207.0	1261.6	1281.5	1256.6	1279.8	1291.4
65°	3435.9	1134.3	1116.1	1104.5	1117.8	1167.4	1207.0	1157.4	1179.0	1212.0
67.5°	2949.8	1021.8	972.2	985.4	1026.8	1053.3	1104.5	1048.3	1066.5	1122.7
70°	2386.0	879.7	835.0	873.0	912.8	967.3	975.6	937.6	980.5	1043.3
72.5°	1688.2	735.8	704.4	782.1	795.3	866.4	848.2	830.0	889.6	911.0
75°	1170.7	593.6	575.4	635.0	682.9	744.0	730.8	752.3	878.0	888.0
77.5°	740.8	461.4	449.8	487.8	553.9	621.7	643.2	888.0	1499.7	1559.2
80°	429.9	343.9	330.7	360.5	418.3	481.1	620.0	1089.7	988.8	977.2
82.5°	239.7	236.5	219.9	228.2	279.4	347.3	876.4	767.2	623.4	643.2
85°	112.4	138.9	119.0	114.1	157.0	406.7	585.4	438.2	291.0	284.4
87.5°	29.7	26.4	26.4	29.7	66.1	350.5	233.2	186.9	110.8	107.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)