

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: P970788

Luminaire Tested: **NAV-SB6C-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38221.2 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

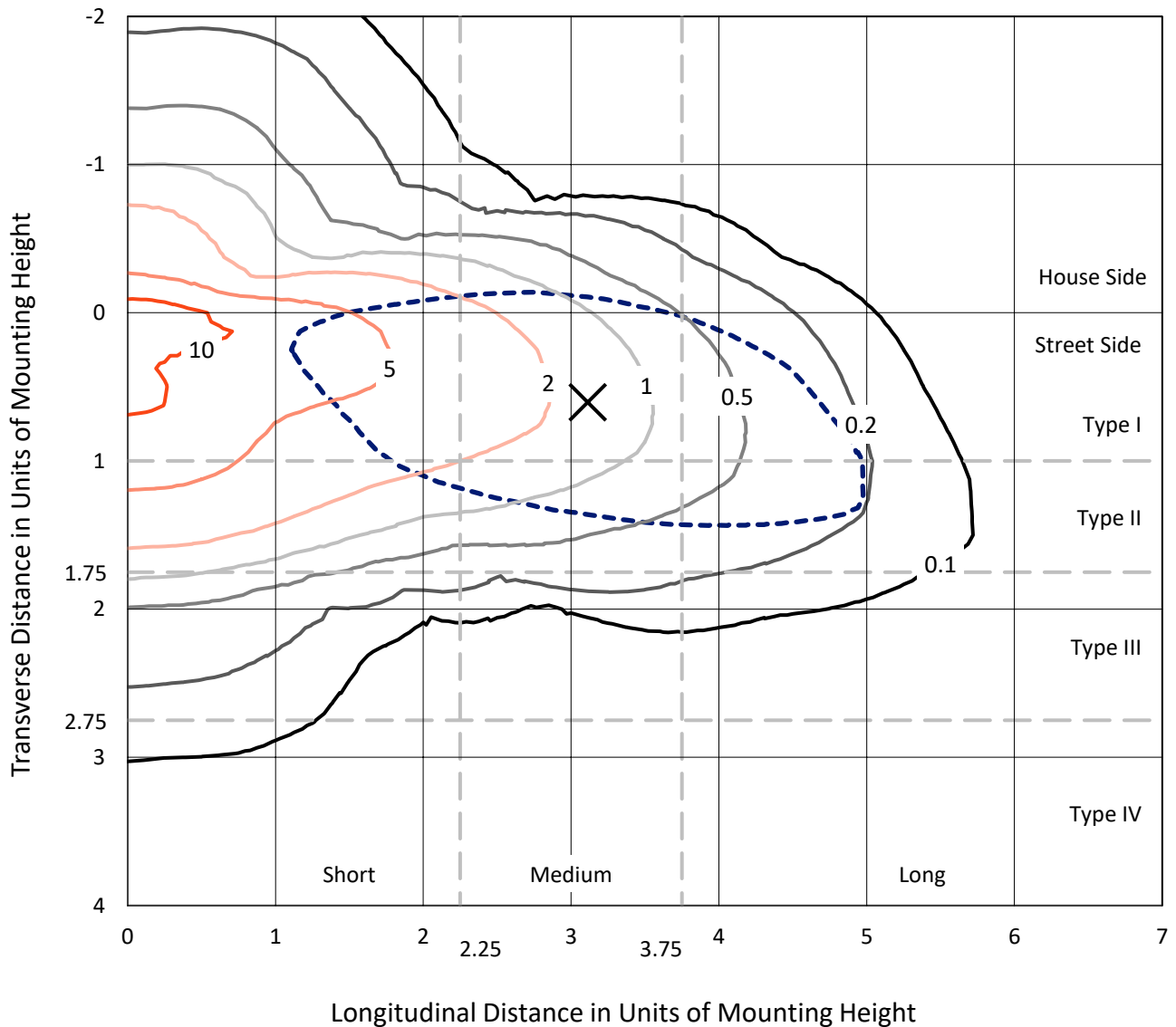
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

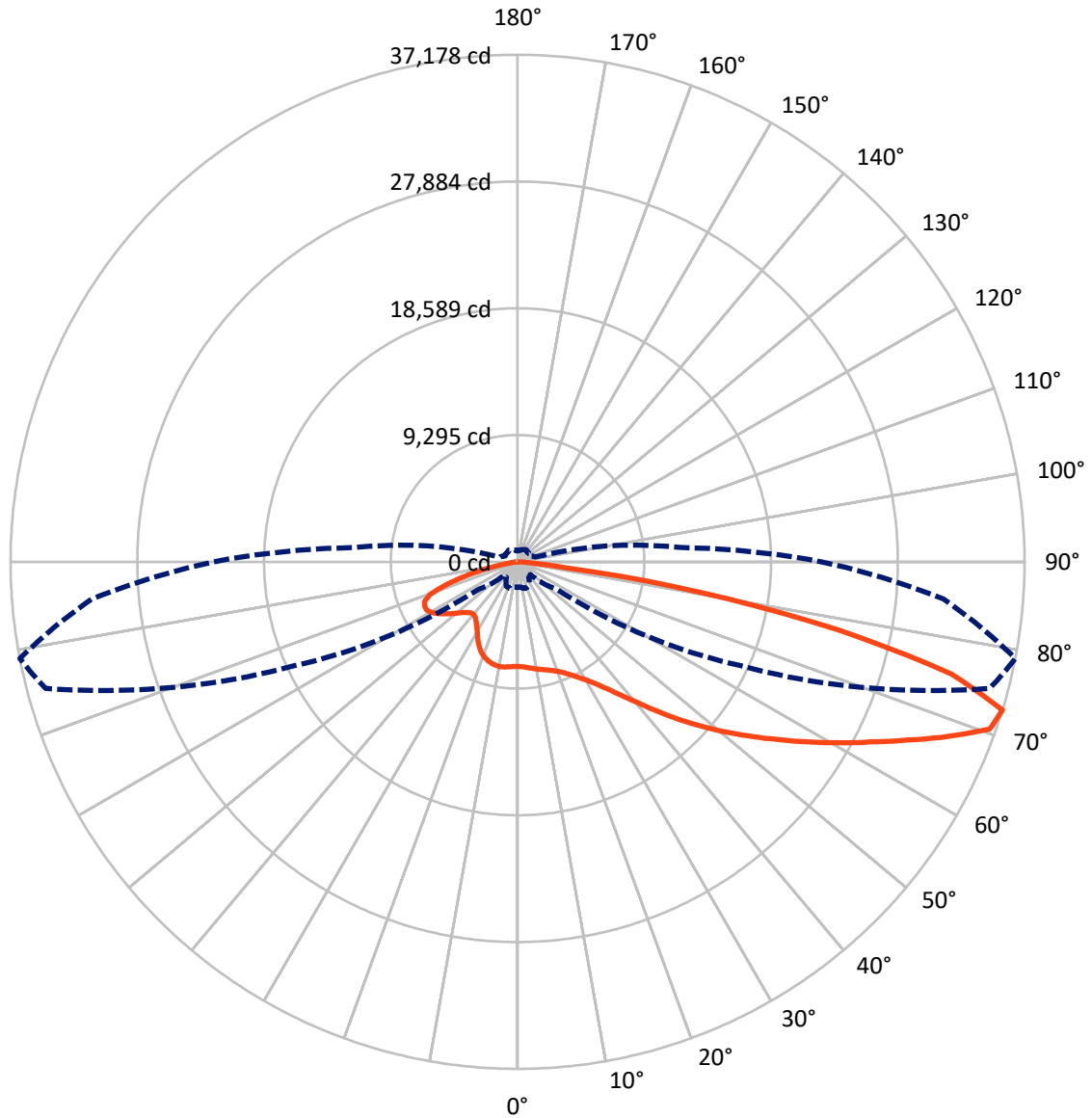
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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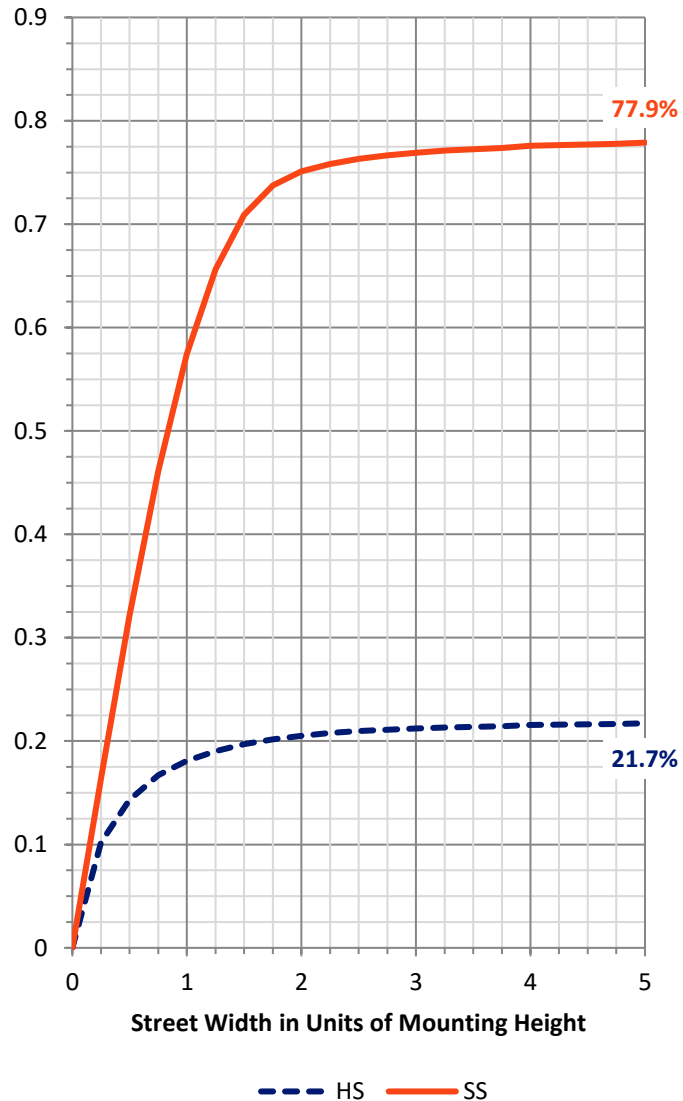
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8410.8	0.0	8410.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29810.5	0.0	29810.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	38221.2	0.0	38221.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.4	1.8
10°-20°	1820.9	4.8
20°-30°	2938.1	7.7
30°-40°	4409.7	11.5
40°-50°	6255.4	16.4
50°-60°	7899.7	20.7
60°-70°	8023.3	21.0
70°-80°	5468.2	14.3
80°-90°	709.5	1.9
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°	38221.2	100.0
0°-180°	38221.2	100.0

Coefficient of Utilization



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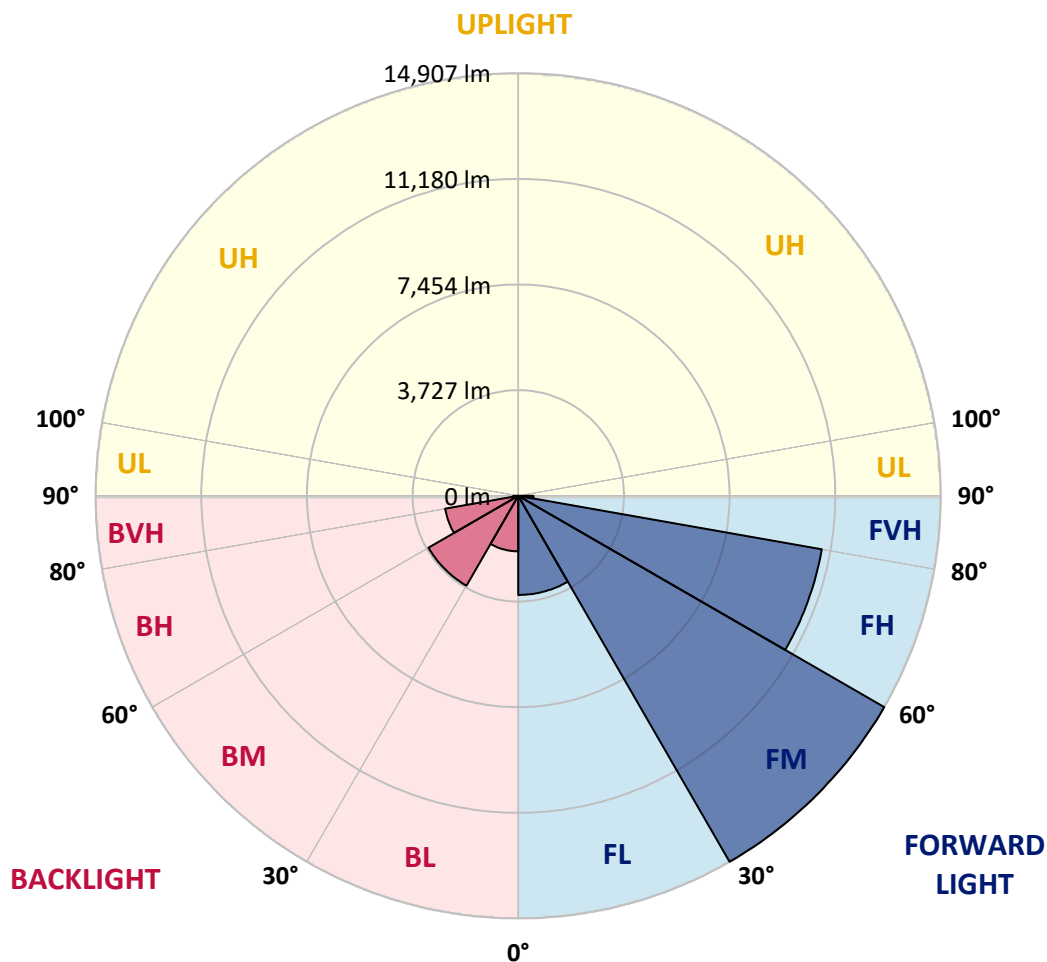
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3496.3	9.1			
FM (30°-60°)	14907.1	39.0			
FH (60°-80°)	10872.7	28.4			G4/12000
FVH (80°-90°)	534.4	1.4			G4/750
BL (0°-30°)	1959.1	5.1	B3/2500		
BM (30°-60°)	3657.8	9.6	B3/5000		
BH (60°-80°)	2618.8	6.9	B4/5000		G4/5000
BVH (80°-90°)	175.0	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5
2.5°	7676.6	7640.2	7662.5	7654.4	7664.4	7676.6	7680.6	7686.7	7706.9	7704.9	7702.9
5°	7660.4	7624.1	7654.4	7644.2	7670.5	7698.9	7723.1	7745.3	7777.7	7791.8	7771.7
7.5°	7626.0	7601.8	7632.2	7662.5	7711.0	7753.4	7787.7	7838.4	7884.8	7892.9	7907.1
10°	7425.9	7407.7	7478.5	7557.3	7690.8	7806.0	7880.8	7939.4	7990.0	7998.1	8018.3
12.5°	7217.6	7195.4	7274.2	7381.4	7597.7	7806.0	7963.6	8040.5	8085.0	8111.2	8141.6
15°	7183.3	7165.1	7209.5	7302.6	7482.5	7751.4	8020.3	8161.8	8200.2	8230.5	8242.6
17.5°	7349.0	7314.7	7332.8	7365.2	7470.4	7700.8	8064.8	8299.3	8358.0	8390.2	8390.2
20°	7733.2	7684.6	7656.3	7591.7	7573.5	7708.9	8060.7	8465.1	8541.9	8582.3	8592.5
22.5°	8244.7	8212.4	8151.7	7987.9	7810.0	7808.0	8137.6	8677.3	8820.9	8859.3	8835.1
25°	8863.4	8814.8	8738.0	8515.6	8174.0	8004.1	8266.9	8948.2	9188.8	9199.0	9128.2
27.5°	9575.0	9502.3	9397.1	9103.9	8643.0	8311.4	8465.1	9259.6	9611.4	9607.3	9461.8
30°	10325.1	10252.3	10141.1	9785.3	9205.0	8725.9	8740.1	9595.2	10112.8	10090.6	9841.8
32.5°	10873.0	10818.4	10796.1	10521.2	9852.0	9215.2	9055.5	9967.2	10731.4	10711.2	10363.5
35°	11293.6	11222.7	11249.1	11109.6	10557.6	9763.0	9441.6	10410.0	11483.6	11481.5	11048.9
37.5°	11710.0	11647.3	11669.5	11576.6	11210.6	10458.5	9912.7	10951.8	12415.6	12460.1	11877.8
40°	12090.1	12023.4	12112.3	12025.4	11718.1	11198.4	10448.4	11564.5	13495.2	13580.1	12880.6
42.5°	12318.6	12266.0	12413.6	12415.6	12158.9	11823.2	11036.8	12239.7	14744.6	14934.7	14113.8
45°	12397.4	12379.2	12601.6	12648.1	12549.0	12185.1	11566.4	12975.6	16091.2	16430.8	15519.0
47.5°	12312.5	12278.1	12585.4	12757.3	12836.1	12354.9	12005.2	13772.2	17465.9	17963.2	17051.5
50°	11883.8	11817.1	12274.1	12636.0	12916.9	12466.2	12447.9	14692.0	19028.7	19572.6	18592.1
52.5°	11113.6	11063.0	11582.6	12211.3	12739.0	12520.7	12945.2	15696.8	20512.7	21216.3	20171.0
55°	10128.9	10062.2	10634.4	11455.2	12296.3	12502.5	13442.7	16821.0	22263.5	22977.2	21802.6
57.5°	8568.2	8434.7	9158.6	10128.9	11574.5	12480.3	13960.2	17939.0	24042.7	24897.9	23543.3
60°	6291.7	6093.5	6981.1	8131.5	10163.4	12263.9	14601.1	19192.5	26177.7	26948.0	25443.8
62.5°	3663.5	3548.1	4128.4	5202.0	7660.4	10990.3	14961.0	20650.2	28276.3	29084.9	27311.8
65°	2844.6	2812.3	2862.8	2945.6	4263.9	8228.5	13851.0	22071.4	30945.0	31511.1	29258.8
67.5°	2602.0	2577.8	2600.0	2444.3	2163.3	4583.3	10957.9	22431.3	33803.7	34147.4	30963.1
70°	2312.9	2284.6	2357.4	2223.9	1702.3	2084.4	7080.2	21125.2	36078.2	36723.1	32259.1
72.5°	1884.3	1852.0	2021.7	1961.1	1433.5	1338.4	3556.2	18021.9	35839.6	37178.0	31331.1
75°	1447.6	1429.4	1631.6	1682.1	1168.6	1053.3	1706.3	13396.1	31539.4	32887.8	27002.5
77.5°	1124.1	1110.0	1213.1	1397.1	942.2	816.8	1049.3	8497.5	23767.7	24004.3	18608.2
80°	843.1	802.7	897.7	1081.7	733.9	596.4	711.7	4955.4	15023.6	13618.6	8099.1
82.5°	527.7	507.5	586.3	721.8	517.5	410.4	463.0	2737.5	6020.7	3546.2	1562.8
85°	301.2	293.2	319.4	412.5	281.1	236.6	264.9	1209.0	1099.8	756.1	471.1
87.5°	121.3	117.3	145.5	184.0	103.1	86.9	93.0	291.1	242.6	224.4	155.7
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°	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5	7672.5
2.5°	7694.8	7694.8	7666.5	7622.0	7571.5	7539.1	7486.5	7472.4	7417.8	7401.6	7427.9
5°	7787.7	7771.7	7684.6	7559.4	7387.5	7229.7	7055.9	6946.7	6793.1	6738.5	6778.9
7.5°	7905.0	7860.5	7711.0	7436.0	7076.1	6722.4	6354.4	6075.4	5808.5	5713.5	5725.6
10°	8012.2	7949.5	7694.8	7213.6	6591.0	5978.3	5392.0	4981.6	4670.2	4542.9	4571.2
12.5°	8119.3	8004.1	7587.7	6843.6	5901.5	5070.6	4445.8	4126.4	3934.4	3780.7	3831.2
15°	8220.4	8058.7	7421.8	6348.3	5145.4	4302.3	3841.3	3586.6	3432.9	3331.9	3350.0
17.5°	8337.7	8105.2	7173.2	5719.5	4425.6	3770.6	3394.5	3240.8	3210.5	3198.4	3206.5
20°	8501.5	8147.6	6845.7	5015.9	3895.9	3346.0	3151.9	3137.7	3135.8	3129.6	3149.9
22.5°	8677.3	8198.2	6413.0	4377.1	3445.0	3081.1	3046.8	3018.5	3000.3	2998.2	3020.5
25°	8885.6	8214.3	5871.2	3853.5	3061.0	2955.8	2915.4	2872.9	2860.8	2860.8	2872.9
27.5°	9087.8	8159.8	5240.4	3398.6	2844.6	2840.6	2788.0	2773.9	2771.8	2777.9	2794.0
30°	9290.0	8056.7	4613.6	2978.0	2719.2	2719.2	2701.1	2711.1	2719.2	2739.5	2753.7
32.5°	9562.8	7947.5	4090.0	2666.6	2610.1	2589.9	2608.0	2628.3	2636.4	2662.6	2684.9
35°	9963.2	7870.7	3673.5	2496.9	2496.9	2470.6	2480.7	2476.6	2458.5	2446.4	2474.7
37.5°	10492.9	7866.7	3329.8	2418.0	2401.9	2397.8	2399.8	2373.5	2302.8	2217.9	2219.8
40°	11129.8	7975.8	3065.0	2363.4	2351.2	2375.5	2363.4	2292.6	2098.6	1951.0	1947.0
42.5°	11984.9	8287.1	2895.1	2296.7	2333.1	2363.4	2314.9	2070.3	1938.9	1839.8	1835.8
45°	12991.8	8792.6	2808.2	2226.0	2298.8	2335.2	2100.6	1993.4	1888.4	1769.0	1761.0
47.5°	14132.1	9429.5	2788.0	2159.3	2221.9	2244.1	2009.6	1961.1	1841.8	1712.5	1702.3
50°	15373.4	10183.6	2842.6	2080.3	2110.7	2033.9	1979.3	1934.8	1811.5	1684.1	1669.9
52.5°	16657.2	11014.5	2951.8	1973.2	1999.5	1914.6	1967.2	1928.7	1793.3	1621.4	1609.4
55°	17918.7	11851.5	3056.9	1847.9	1886.3	1807.5	1932.8	1904.4	1710.4	1516.3	1506.2
57.5°	19200.6	12684.5	3160.0	1736.7	1777.1	1704.4	1878.2	1839.8	1617.4	1419.3	1415.2
60°	20532.9	13493.2	3208.6	1629.5	1657.8	1609.4	1795.3	1728.6	1512.3	1320.2	1314.2
62.5°	21780.3	14166.4	3129.6	1522.3	1540.6	1520.4	1686.1	1597.2	1407.1	1209.0	1206.9
65°	23031.7	14566.7	2887.0	1417.3	1421.3	1411.2	1532.5	1455.7	1283.8	1111.9	1099.8
67.5°	24166.0	14791.2	2500.9	1304.0	1294.0	1289.9	1389.0	1302.1	1164.5	1015.0	1002.8
70°	24406.6	14221.0	1910.6	1170.6	1170.6	1160.5	1231.2	1142.3	1033.1	911.8	907.7
72.5°	22291.8	11962.7	1356.6	1019.0	1035.1	1015.0	1073.6	998.8	899.6	818.8	794.6
75°	17975.4	8772.4	986.7	863.3	891.5	857.2	911.8	859.3	774.3	772.3	695.5
77.5°	12350.8	5424.4	715.7	711.7	731.8	687.4	750.1	721.8	644.9	610.6	572.2
80°	5270.8	2163.3	521.6	549.9	549.9	509.5	582.3	590.4	523.7	507.5	507.5
82.5°	1049.3	614.6	365.9	378.0	355.8	343.7	412.5	456.9	630.8	701.5	703.6
85°	315.4	226.4	220.4	206.2	181.9	184.0	242.6	458.9	566.1	323.5	279.0
87.5°	86.9	56.6	58.6	46.5	38.4	50.5	82.9	347.8	190.0	80.9	68.8
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)