

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: P968692

Luminaire Tested: **NAV-SB5C-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32626.8 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

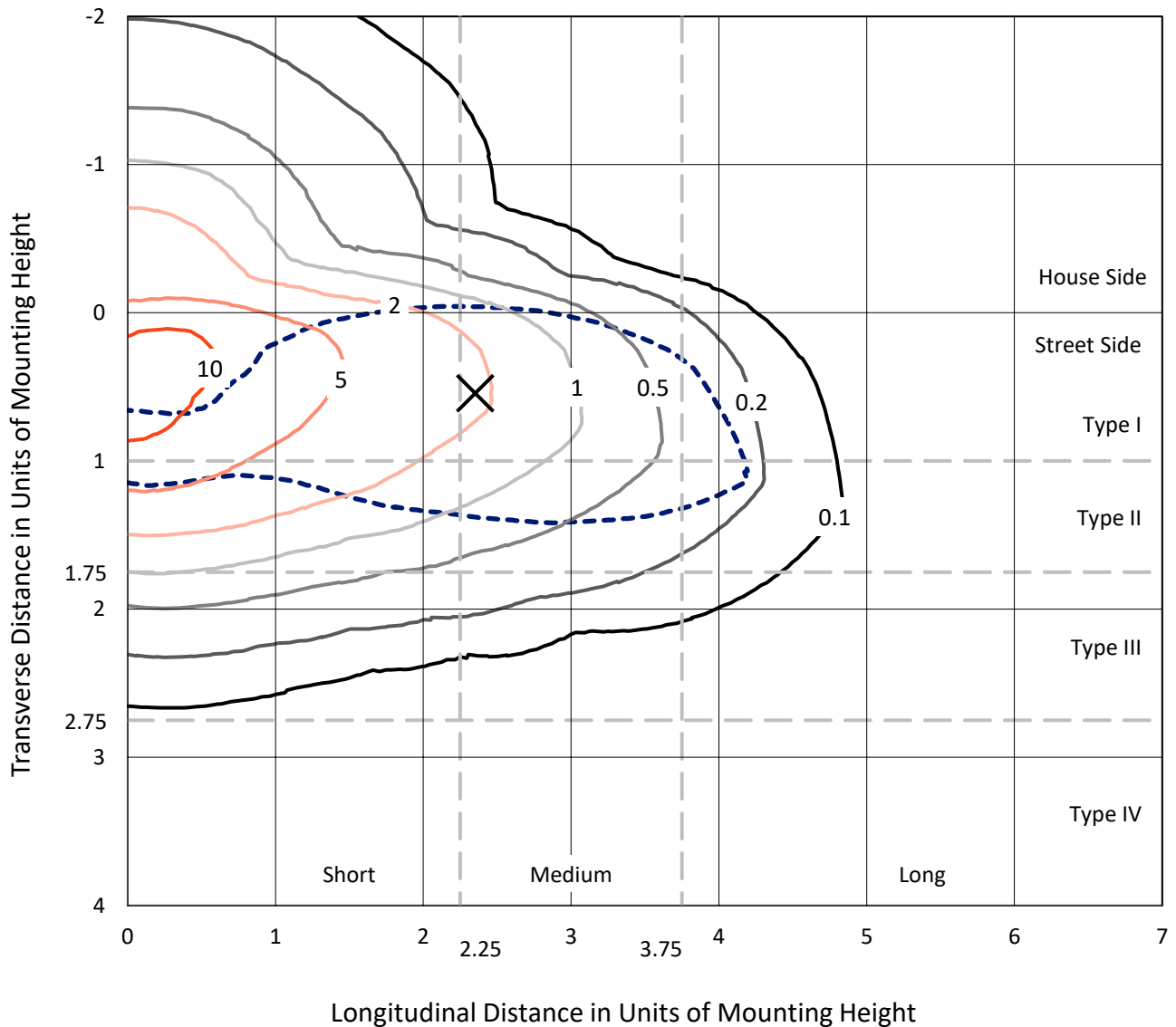
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

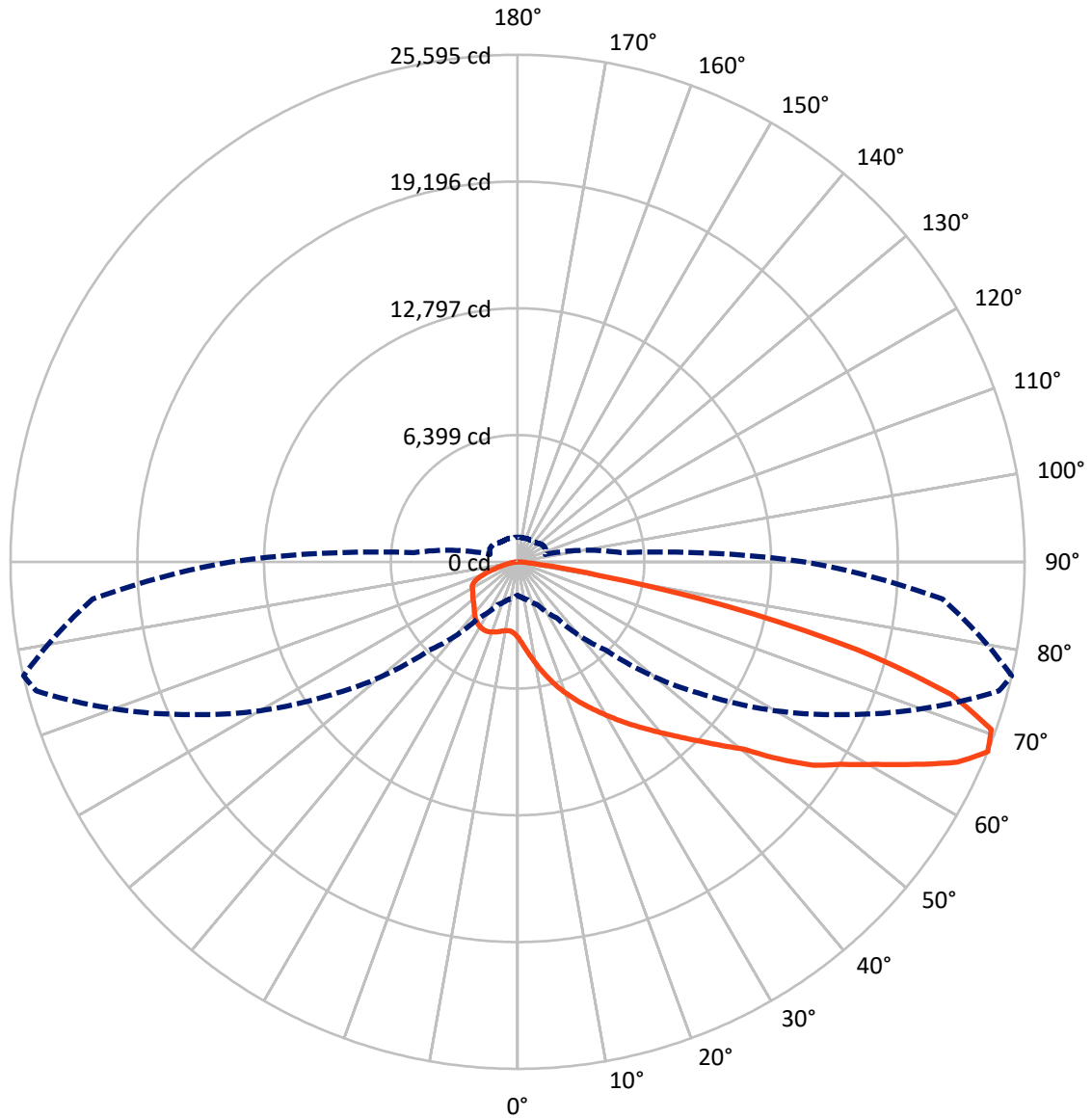
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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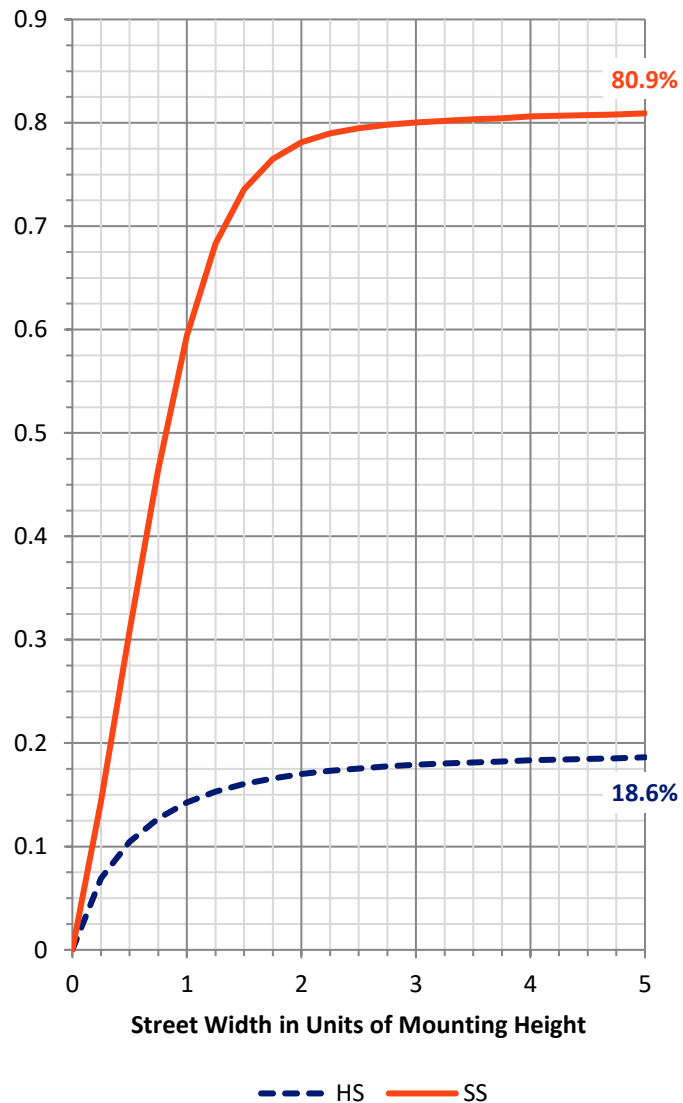
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6171.7	0.0	6171.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26455.1	0.0	26455.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	32626.8	0.0	32626.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.3	1.3
10°-20°	1474.1	4.5
20°-30°	2783.3	8.5
30°-40°	4483.9	13.7
40°-50°	6133.1	18.8
50°-60°	6918.2	21.2
60°-70°	6457.3	19.8
70°-80°	3539.7	10.8
80°-90°	427.0	1.3
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°	32626.8	100.0
0°-180°	32626.8	100.0

Coefficient of Utilization

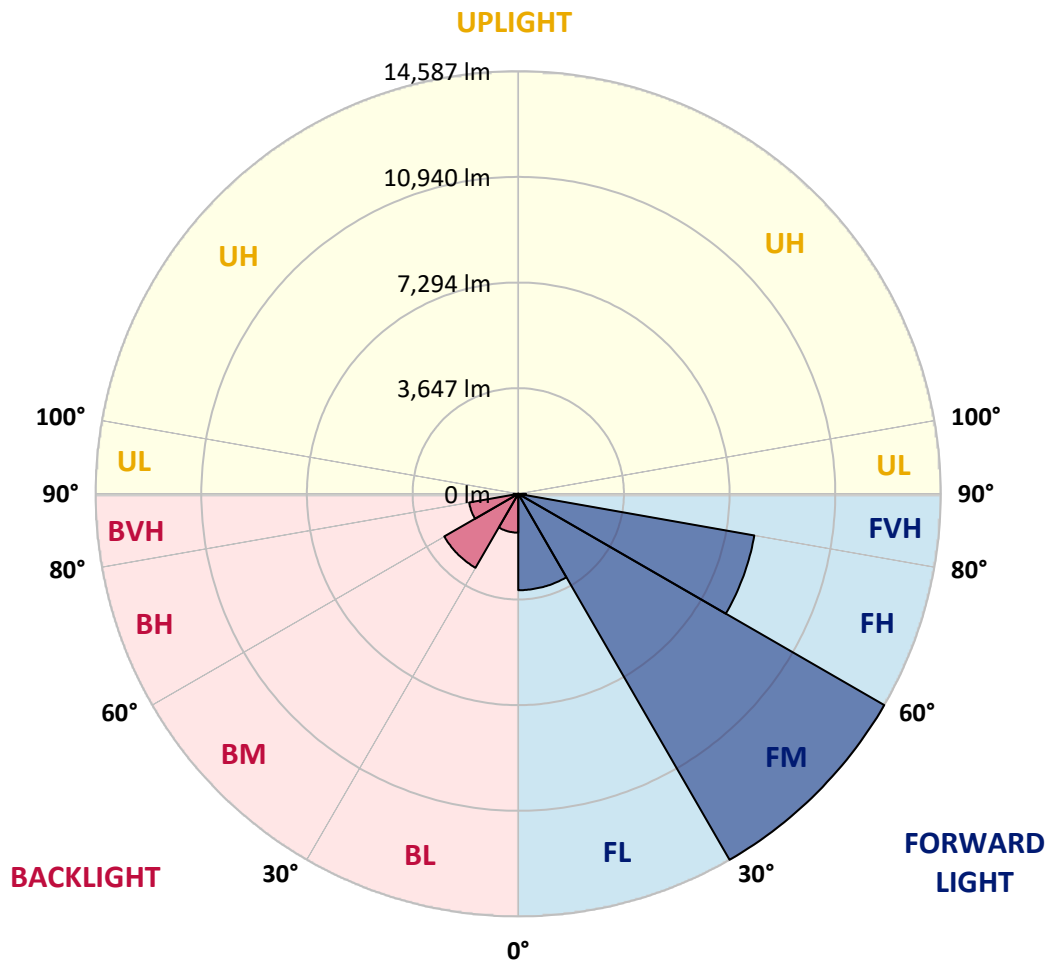


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3325.9	10.2			
FM (30°-60°)	14587.1	44.7			
FH (60°-80°)	8275.1	25.4			G4/12000
FVH (80°-90°)	267.0	0.8			G3/500
BL (0°-30°)	1341.9	4.1	B3/2500		
BM (30°-60°)	2948.1	9.0	B3/5000		
BH (60°-80°)	1721.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	160.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2
2.5°	4793.2	4826.8	4784.7	4784.7	4643.2	4569.1	4427.7	4320.0	4126.2	4092.5	3964.6
5°	5665.6	5707.7	5648.8	5623.5	5456.7	5303.5	5066.0	4832.0	4486.6	4451.3	4149.8
7.5°	6341.0	6394.8	6342.6	6315.6	6167.4	5995.6	5717.8	5391.1	4904.3	4835.2	4399.1
10°	6891.7	6900.1	6883.2	6893.3	6777.1	6635.6	6351.0	5970.4	5362.4	5268.1	4700.5
12.5°	7203.2	7241.9	7275.7	7336.2	7316.0	7228.5	6972.5	6517.8	5847.4	5726.2	5029.0
15°	7349.8	7417.1	7492.9	7632.7	7745.5	7767.4	7572.1	7105.5	6341.0	6194.4	5360.7
17.5°	7401.9	7466.0	7585.5	7787.6	8030.2	8193.5	8105.9	7676.4	6829.4	6661.0	5709.4
20°	7666.4	7684.9	7757.3	7949.3	8212.1	8483.2	8548.9	8225.5	7312.7	7122.4	6069.7
22.5°	8232.3	8195.2	8215.4	8303.0	8491.6	8754.3	8904.3	8710.6	7809.6	7590.5	6433.5
25°	9167.0	9059.2	8951.4	8850.4	8946.3	9094.5	9264.7	9195.6	8330.0	8052.1	6800.7
27.5°	10347.6	10216.2	9978.8	9647.0	9530.8	9582.9	9658.8	9645.2	8811.6	8530.4	7179.6
30°	11509.6	11356.4	11073.5	10593.5	10287.0	10148.8	10091.6	10052.9	9335.4	9035.6	7561.9
32.5°	12437.7	12316.4	12038.5	11501.2	11056.6	10820.8	10630.5	10492.4	9882.7	9582.9	7966.2
35°	13249.5	13136.6	12818.2	12232.1	11748.9	11497.8	11248.7	10953.9	10452.0	10148.8	8400.7
37.5°	13990.4	13877.6	13441.4	12831.8	12345.0	12171.6	11949.2	11449.0	11023.0	10736.7	8860.4
40°	14458.6	14433.4	14025.8	13335.4	12830.0	12744.1	12670.0	12023.4	11656.2	11390.1	9365.7
42.5°	14578.3	14633.8	14310.4	13742.9	13261.2	13192.2	13365.6	12673.4	12366.9	12112.6	9938.3
45°	14290.2	14450.2	14238.1	13852.4	13567.7	13530.7	13982.0	13384.1	13153.4	12921.0	10628.8
47.5°	13561.0	13832.2	13744.5	13690.7	13650.2	13810.2	14524.4	14138.6	14044.3	13842.2	11417.1
50°	12089.1	12602.7	12755.9	13096.1	13486.8	14027.5	15017.8	14962.2	15085.1	14881.4	12377.0
52.5°	9544.2	10251.5	11140.8	11993.0	12985.0	13955.1	15560.1	16144.6	16663.2	16552.1	13902.9
55°	7878.6	8196.9	8880.7	10443.6	12011.6	13650.2	15804.3	17099.5	18229.5	18130.2	15059.9
57.5°	6598.6	6883.2	7304.3	8609.5	10539.6	12958.0	15955.9	17682.2	19302.4	19292.2	16201.8
60°	5226.0	5527.5	5958.6	6883.2	8820.0	11762.3	15922.2	18345.8	20671.6	20755.8	17594.6
62.5°	3676.6	4008.4	4486.6	5349.0	7063.5	10212.9	15235.1	18825.8	22283.3	22512.4	19270.3
65°	2416.7	2635.8	2996.2	3740.5	5263.1	8220.5	13923.1	18888.1	24008.0	24395.3	20843.4
67.5°	1694.3	1778.5	1990.7	2394.9	3469.4	6303.9	11833.0	18243.1	25158.2	25594.5	21525.5
70°	1322.0	1364.2	1472.0	1633.6	2179.4	4239.1	9067.6	16565.5	24912.3	25367.1	20813.0
72.5°	1141.8	1182.3	1222.7	1242.9	1461.9	2617.2	6142.2	13850.7	22596.6	22904.9	18096.5
75°	1035.8	1045.9	1079.5	1072.9	1114.9	1697.6	3545.2	10091.6	17828.7	17722.6	13358.9
77.5°	870.7	884.2	939.7	931.3	990.3	1160.4	1840.8	6512.7	11558.5	10837.6	7435.7
80°	737.7	744.4	805.0	794.9	860.6	840.4	939.7	3319.5	4902.7	4153.2	2144.0
82.5°	256.0	316.6	614.7	633.2	656.8	508.6	542.3	1354.1	1497.2	1147.0	449.7
85°	124.6	133.0	313.2	444.6	442.9	256.0	264.4	483.4	471.6	370.5	149.9
87.5°	20.2	25.2	37.0	173.4	138.1	67.3	90.9	94.3	97.7	84.3	33.7
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°	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2	3828.2
2.5°	3870.2	3786.0	3609.2	3445.8	3317.8	3194.9	3125.8	3066.9	3033.2	3026.4	3026.4
5°	3974.6	3801.2	3479.5	3208.4	3031.5	2900.1	2831.2	2787.3	2765.4	2751.9	2750.3
7.5°	4124.6	3870.2	3412.1	3103.9	2918.7	2824.4	2789.0	2782.3	2780.6	2782.3	2787.3
10°	4331.8	3983.0	3405.4	3078.7	2923.7	2871.5	2869.8	2871.5	2878.3	2879.9	2881.6
12.5°	4555.7	4099.3	3432.3	3100.5	2987.8	2959.1	2954.0	2952.4	2957.4	2960.8	2962.5
15°	4799.9	4252.5	3477.8	3147.8	3058.5	3028.2	3023.1	3013.0	3011.3	3009.6	3008.0
17.5°	5050.9	4404.1	3528.4	3198.2	3103.9	3061.9	3043.3	3019.8	3001.2	2996.2	3001.2
20°	5305.2	4554.0	3563.7	3223.5	3107.3	3048.4	3011.3	2970.9	2938.9	2920.3	2927.1
22.5°	5576.3	4710.6	3585.7	3216.8	3076.9	2996.2	2928.8	2881.6	2832.8	2800.8	2802.5
25°	5840.8	4847.0	3583.9	3181.4	3018.0	2915.3	2829.4	2768.8	2701.4	2667.8	2667.8
27.5°	6095.1	4970.0	3541.8	3119.1	2933.9	2819.3	2716.6	2644.2	2578.5	2546.5	2544.8
30°	6357.8	5072.7	3476.2	3028.2	2834.4	2708.2	2595.3	2533.0	2474.0	2443.7	2442.1
32.5°	6618.8	5167.0	3383.5	2915.3	2719.9	2598.7	2487.6	2430.3	2394.9	2394.9	2396.6
35°	6895.0	5232.7	3260.5	2783.9	2598.7	2482.4	2394.9	2361.2	2357.8	2337.6	2332.6
37.5°	7186.4	5274.9	3110.7	2649.2	2479.1	2369.6	2342.7	2302.3	2268.6	2224.8	2218.1
40°	7492.9	5317.0	2930.5	2509.4	2352.8	2292.2	2280.4	2226.5	2130.5	2022.7	2007.6
42.5°	7865.1	5345.6	2743.5	2369.6	2219.7	2199.5	2216.4	2123.7	1970.5	1889.7	1891.3
45°	8296.2	5392.7	2571.7	2231.5	2083.3	2083.3	2154.0	2032.8	1906.5	1856.0	1864.4
47.5°	8855.4	5502.2	2411.7	2079.9	1957.0	1990.7	2016.0	1923.3	1852.6	1790.3	1788.6
50°	9663.8	5764.9	2246.7	1926.7	1861.0	1928.3	1893.0	1839.2	1756.6	1706.1	1701.0
52.5°	10667.6	5919.9	2100.1	1788.6	1778.5	1845.8	1795.3	1744.9	1682.5	1615.1	1601.7
55°	11351.4	5948.5	1977.2	1687.6	1722.9	1716.2	1697.6	1652.2	1618.5	1529.2	1530.9
57.5°	12116.0	6005.8	1876.2	1626.9	1687.6	1613.5	1606.7	1567.9	1524.2	1463.6	1443.3
60°	13030.5	6095.1	1788.6	1603.3	1657.2	1546.1	1512.4	1497.2	1453.4	1423.1	1431.5
62.5°	14027.5	6175.8	1699.3	1606.7	1621.9	1480.4	1429.9	1424.9	1397.9	1387.7	1387.7
65°	14707.9	5955.2	1588.1	1603.3	1566.3	1413.1	1349.0	1347.4	1325.4	1322.0	1320.4
67.5°	14470.4	5256.3	1438.3	1556.2	1509.0	1345.6	1274.9	1268.2	1239.5	1241.3	1241.3
70°	13281.4	4259.3	1231.1	1440.0	1438.3	1285.0	1197.4	1175.6	1136.8	1143.6	1150.3
72.5°	11051.6	3156.2	953.2	1246.3	1325.4	1229.5	1108.2	1072.9	1024.0	1030.7	1029.0
75°	7981.3	2145.6	693.9	948.2	1153.6	1163.8	1020.6	960.0	901.1	911.1	914.5
77.5°	4084.1	1216.0	510.3	653.4	906.1	1057.7	941.5	860.6	847.2	941.5	927.9
80°	1332.2	609.7	353.7	458.1	594.5	865.7	825.2	732.6	729.3	751.1	645.0
82.5°	397.5	257.7	227.3	301.5	328.4	663.6	712.4	554.1	476.6	501.8	518.8
85°	136.4	124.6	129.7	149.9	156.6	389.1	498.6	367.2	347.0	382.3	377.3
87.5°	32.0	43.8	37.0	33.7	33.7	94.3	193.7	153.2	212.2	141.4	136.4
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)