

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: P968167

Luminaire Tested: **NAV-SB5B-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24408.3 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

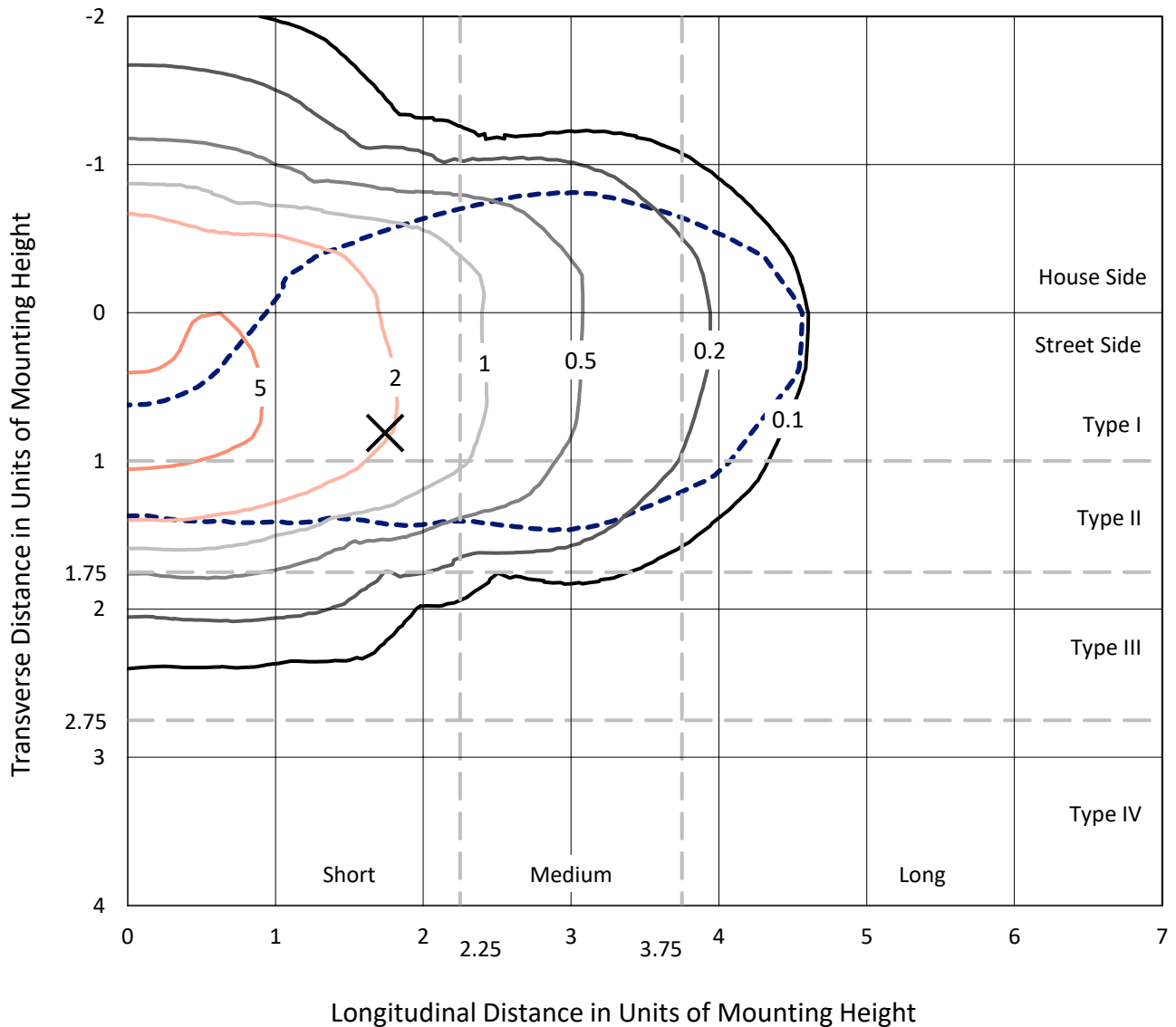
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968167
 CATALOG NUMBER: NAV-SB5B-722-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

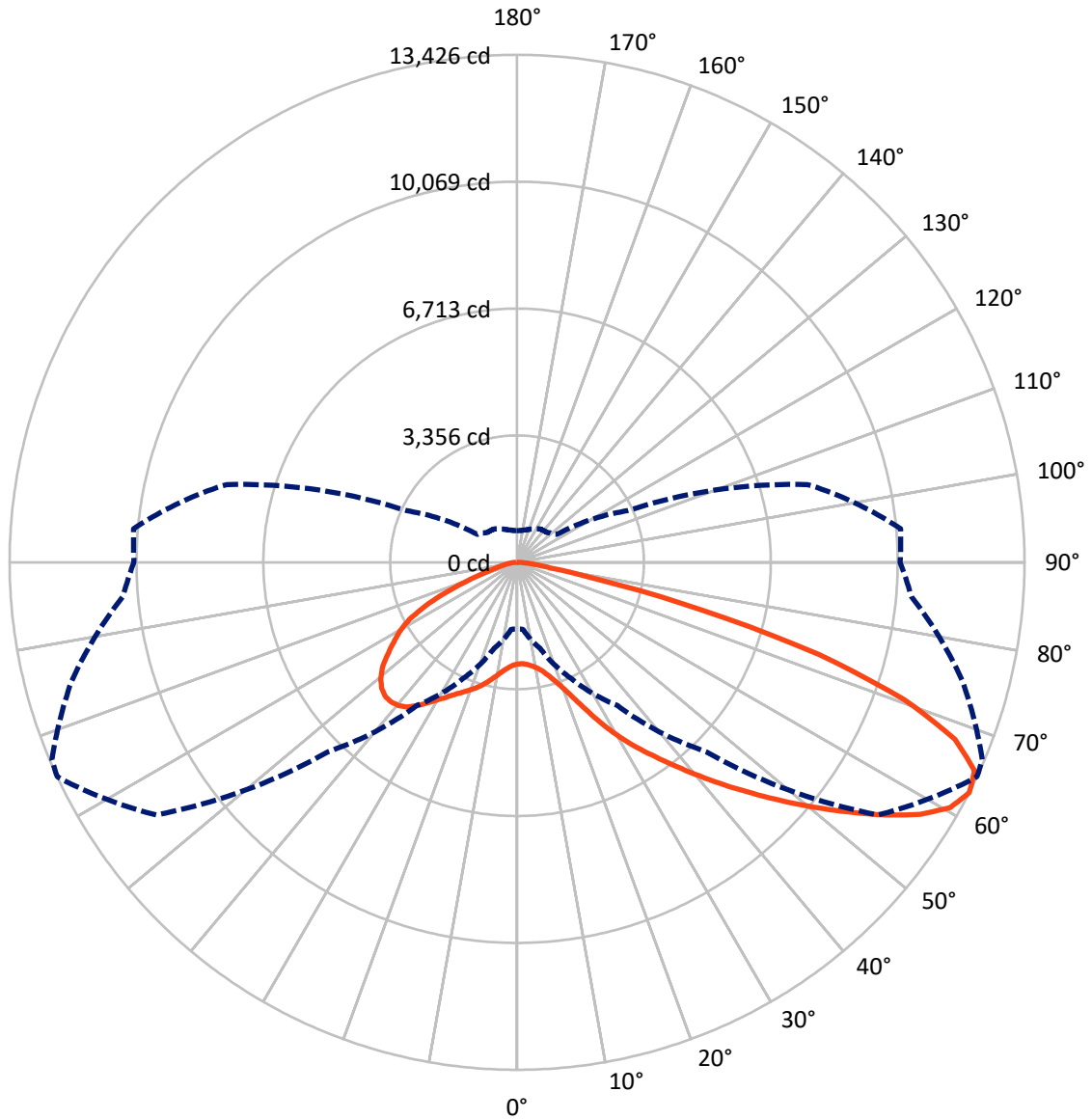
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P968167
CATALOG NUMBER: NAV-SB5B-722-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P968167
 CATALOG NUMBER: NAV-SB5B-722-U-T2U

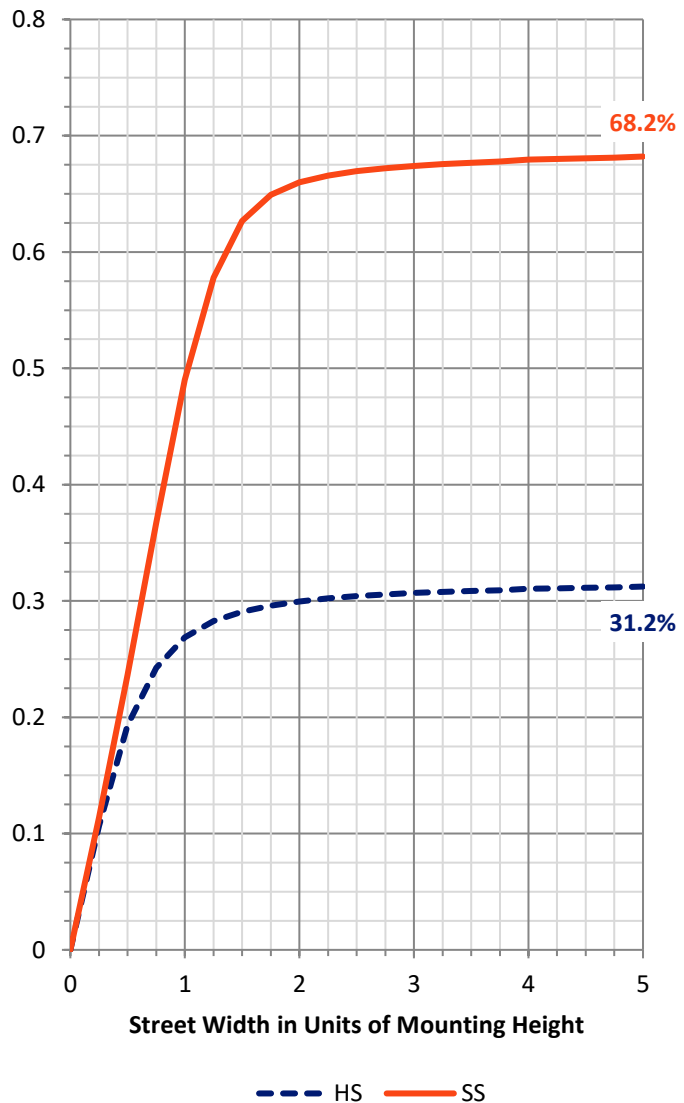
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7702.2	0.0	7702.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	16706.1	0.0	16706.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	24408.3	0.0	24408.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.1
10°-20°	909.4	3.7
20°-30°	1843.8	7.6
30°-40°	3190.7	13.1
40°-50°	4828.5	19.8
50°-60°	5661.1	23.2
60°-70°	4746.1	19.4
70°-80°	2620.3	10.7
80°-90°	340.4	1.4
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°	24408.3	100.0
0°-180°	24408.3	100.0

Coefficient of Utilization



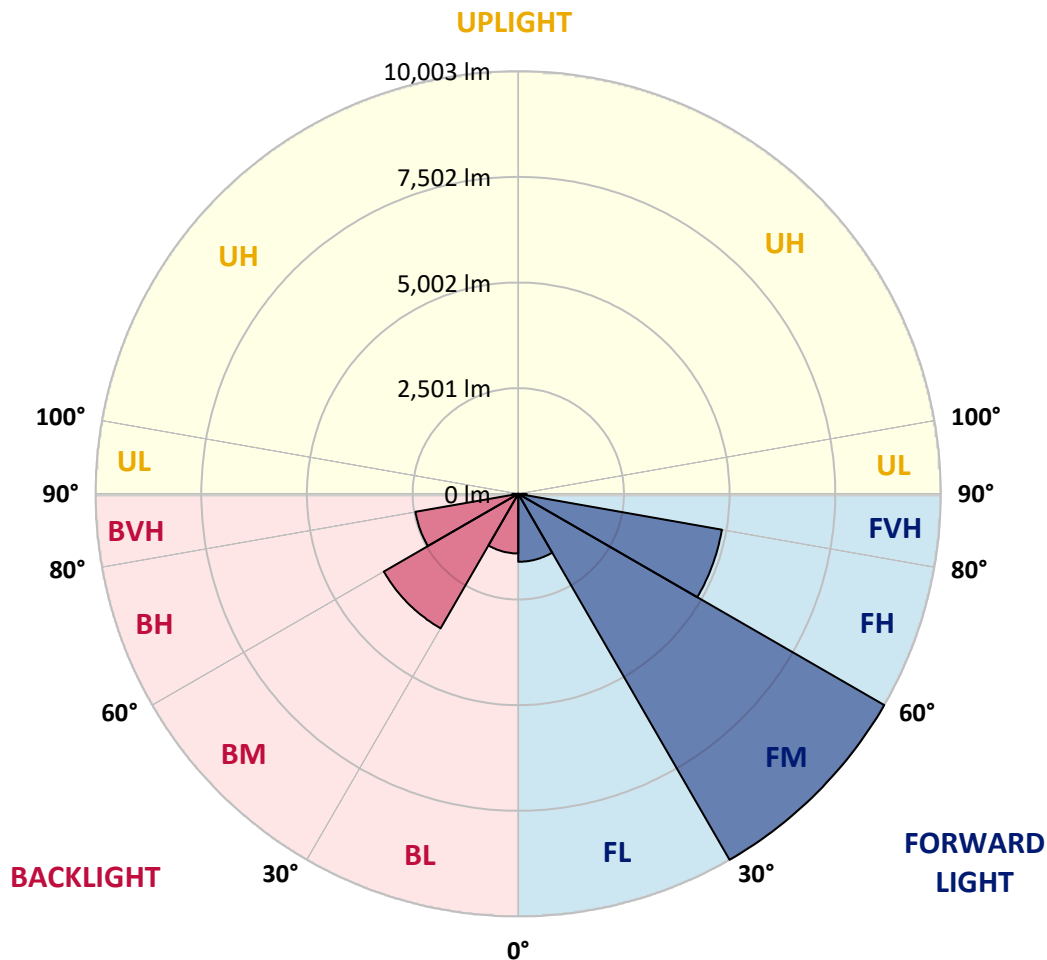
REPORT NUMBER: P968167
 CATALOG NUMBER: NAV-SB5B-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.8	6.6			
FM (30°-60°)	10003.3	41.0			
FH (60°-80°)	4895.6	20.1			G2/5000
FVH (80°-90°)	198.4	0.8			G2/225
BL (0°-30°)	1412.5	5.8	B3/2500		
BM (30°-60°)	3676.9	15.1	B3/5000		
BH (60°-80°)	2470.8	10.1	B3/2500		G3/2500
BVH (80°-90°)	142.0	0.6			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



REPORT NUMBER: P968167
 CATALOG NUMBER: NAV-SB5B-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7
2.5°	2672.0	2664.4	2670.7	2670.7	2673.2	2672.0	2680.8	2683.3	2687.1	2694.7	2694.7
5°	2645.3	2644.1	2655.5	2665.6	2675.8	2684.6	2696.1	2712.5	2715.0	2723.8	2735.3
7.5°	2636.5	2628.9	2646.7	2659.3	2683.3	2704.9	2735.3	2763.1	2774.6	2778.4	2799.9
10°	2704.9	2692.3	2708.7	2716.2	2736.5	2758.1	2793.5	2837.8	2850.5	2865.7	2889.8
12.5°	2821.4	2807.5	2831.6	2842.9	2861.9	2880.9	2905.0	2948.0	2954.4	2982.2	3005.0
15°	2980.9	2964.5	2979.7	2993.6	3025.3	3043.0	3067.1	3108.8	3108.8	3130.4	3146.9
17.5°	3197.5	3176.0	3187.3	3192.5	3212.7	3239.3	3279.8	3316.5	3335.6	3328.0	3305.1
20°	3520.4	3493.8	3493.8	3468.5	3460.9	3482.4	3535.6	3586.3	3606.6	3567.3	3511.5
22.5°	4005.4	3967.5	3945.9	3859.7	3825.6	3828.2	3881.3	3943.4	3959.8	3890.2	3764.8
25°	4622.1	4562.6	4533.5	4406.9	4329.6	4262.5	4304.3	4384.0	4406.9	4320.7	4118.1
27.5°	5238.8	5242.7	5214.8	5062.8	4934.9	4812.1	4790.5	4874.1	4898.2	4800.7	4550.0
30°	6103.8	6013.8	5960.6	5778.2	5595.9	5423.7	5335.0	5369.3	5375.6	5259.1	4967.9
32.5°	6849.6	6826.8	6712.8	6553.2	6319.0	6049.2	5901.1	5846.7	5836.6	5670.6	5325.0
35°	7699.3	7686.7	7566.3	7376.4	7123.1	6748.3	6481.1	6325.4	6312.7	6079.7	5678.2
37.5°	8563.0	8563.0	8445.2	8237.5	7975.3	7506.8	7100.4	6853.4	6812.9	6509.0	6037.9
40°	9251.9	9210.0	9231.6	9144.2	8844.1	8346.4	7787.9	7429.6	7375.1	7010.4	6420.3
42.5°	9643.1	9629.2	9758.4	9855.9	9733.0	9335.4	8545.2	8053.8	7977.9	7562.6	6861.0
45°	9730.5	9715.3	9945.8	10302.9	10475.1	10311.7	9368.3	8711.1	8618.7	8140.0	7333.4
47.5°	9529.1	9498.8	9836.9	10400.4	10952.5	11239.9	10259.8	9424.1	9289.8	8702.2	7818.3
50°	8923.9	8894.7	9406.3	10154.7	11113.4	11870.6	11227.3	10180.1	9974.9	9305.1	8308.4
52.5°	7608.2	7622.1	8423.7	9451.9	10901.9	12263.2	12060.6	10976.6	10729.6	9921.7	8768.1
55°	5926.4	5956.8	6942.0	8074.1	10056.0	12203.6	12629.1	11797.1	11551.4	10501.7	9242.9
57.5°	4243.5	4377.7	5300.9	6421.6	8431.2	11260.2	12753.3	12577.3	12339.2	11134.9	9707.7
60°	2750.5	2774.6	3724.2	4853.9	6420.3	9583.6	12501.2	13168.6	12982.4	11780.7	10096.5
62.5°	1762.7	1779.2	2357.9	3395.0	4620.8	7090.2	11652.8	13425.7	13368.7	12207.4	10470.1
65°	1295.5	1282.8	1584.1	2243.9	3112.6	4372.6	10005.3	13301.5	13414.3	12474.7	10779.0
67.5°	1081.5	1063.7	1211.9	1553.8	2293.3	2483.3	7403.0	12495.0	12907.7	12444.2	11005.7
70°	985.2	970.1	1060.0	1153.6	1789.3	1662.7	3731.9	10862.6	11498.3	12098.6	10968.9
72.5°	834.6	807.9	930.8	1024.5	1391.7	1275.2	1542.4	8343.9	9118.9	10990.5	10452.3
75°	647.1	629.3	734.5	901.6	1046.0	995.4	975.1	5066.6	5912.5	8499.6	9144.2
77.5°	512.9	488.8	585.1	702.8	940.8	750.9	710.4	2181.9	3020.2	5426.2	6842.0
80°	386.2	364.7	444.4	556.0	723.0	566.0	459.7	890.2	1138.5	2749.3	3440.6
82.5°	274.8	255.8	310.3	407.7	486.3	507.8	282.4	499.0	561.0	1060.0	768.6
85°	176.0	164.6	207.7	255.8	308.9	326.7	172.2	260.9	286.2	436.9	320.4
87.5°	96.2	78.5	111.4	119.0	143.1	130.5	82.3	95.0	102.6	158.3	135.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P968167
 CATALOG NUMBER: NAV-SB5B-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7	2689.7
2.5°	2699.8	2703.6	2716.2	2720.0	2729.0	2740.3	2747.9	2755.5	2755.5	2763.1	2763.1
5°	2736.5	2745.4	2772.0	2786.0	2808.7	2831.6	2845.4	2861.9	2872.0	2877.1	2879.6
7.5°	2807.5	2821.4	2859.3	2883.4	2922.7	2954.4	2975.9	2998.6	3003.8	3017.7	3012.6
10°	2903.7	2920.1	2963.2	3008.8	3055.6	3094.9	3115.2	3131.7	3137.9	3140.5	3134.1
12.5°	3013.9	3037.9	3093.7	3149.4	3198.7	3233.0	3238.0	3234.2	3216.4	3201.3	3201.3
15°	3149.4	3170.9	3233.0	3293.7	3341.8	3348.2	3316.5	3296.3	3274.8	3271.0	3271.0
17.5°	3311.5	3322.8	3379.8	3439.4	3443.2	3421.7	3374.8	3355.7	3335.6	3321.6	3322.8
20°	3500.2	3496.4	3536.9	3562.2	3535.6	3469.7	3398.8	3367.2	3346.9	3330.4	3331.8
22.5°	3725.6	3696.5	3691.3	3685.1	3614.2	3476.1	3379.8	3339.3	3307.7	3284.8	3292.5
25°	4053.6	3942.0	3864.9	3821.8	3662.2	3441.8	3319.1	3229.2	3169.6	3130.4	3145.6
27.5°	4463.9	4276.4	4081.3	3976.3	3662.2	3372.2	3172.2	3026.5	2929.0	2888.6	2908.7
30°	4855.1	4658.8	4371.4	4162.4	3653.4	3258.3	2935.4	2732.8	2618.8	2578.3	2602.3
32.5°	5189.5	4975.5	4679.1	4366.3	3631.9	3073.4	2641.5	2417.5	2307.3	2259.1	2283.2
35°	5499.6	5271.8	4988.1	4590.5	3574.9	2802.4	2318.7	2147.7	2024.9	1947.6	1972.9
37.5°	5817.5	5546.6	5280.6	4793.1	3472.3	2485.8	2070.5	1924.8	1780.4	1676.6	1704.5
40°	6163.2	5839.0	5593.4	4913.3	3303.9	2184.4	1878.0	1745.0	1591.8	1481.6	1503.2
42.5°	6567.2	6189.9	5941.6	4975.5	3073.4	1970.5	1752.6	1622.2	1477.8	1387.8	1405.6
45°	6988.9	6576.1	6259.5	4974.1	2816.3	1870.4	1712.1	1582.9	1423.3	1329.6	1344.8
47.5°	7430.8	6980.0	6534.3	4893.1	2593.5	1884.3	1689.3	1498.0	1322.0	1230.9	1243.5
50°	7874.0	7422.0	6800.3	4741.1	2498.4	1853.9	1604.4	1379.0	1171.4	1089.1	1094.1
52.5°	8313.5	7891.8	7029.4	4524.7	2402.2	1741.2	1495.6	1224.6	1109.4	1052.4	1052.4
55°	8755.4	8356.5	7278.8	4209.3	2161.6	1609.6	1313.2	1166.2	1060.0	1008.0	1003.0
57.5°	9198.7	8893.4	7515.7	3894.0	1858.9	1447.4	1213.2	1095.4	1010.5	966.2	958.6
60°	9659.6	9507.6	7760.1	3604.0	1560.2	1239.7	1139.7	1038.4	952.3	902.9	899.1
62.5°	10134.5	10183.9	7951.3	3230.4	1285.4	1113.1	1073.9	970.1	886.4	839.6	838.3
65°	10613.2	10836.0	8076.7	2712.5	1042.2	992.8	1003.0	895.3	810.5	770.0	768.6
67.5°	10974.1	11305.9	8041.2	2052.8	854.7	878.8	914.3	816.8	737.0	705.3	706.6
70°	11014.5	11250.1	7691.7	1405.6	715.4	767.4	815.5	739.5	657.2	634.5	635.7
72.5°	10475.1	10490.3	6717.8	918.1	605.3	673.7	711.7	661.0	581.3	558.4	557.2
75°	9060.6	8675.6	4932.4	605.3	506.6	578.7	614.2	578.7	501.4	506.6	488.8
77.5°	6864.8	6144.3	2994.8	430.6	422.9	486.3	534.4	509.0	443.2	497.6	438.2
80°	3536.9	3324.1	1336.0	321.6	334.4	388.8	439.4	406.5	350.8	334.4	305.1
82.5°	810.5	942.2	526.7	230.5	241.9	279.8	335.6	305.1	252.0	212.8	210.2
85°	283.6	310.3	233.0	144.3	141.9	174.8	228.0	203.9	171.0	136.7	144.3
87.5°	89.9	117.8	87.3	58.2	60.8	78.5	105.1	96.2	79.7	52.0	54.4
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)