

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: P964602

Luminaire Tested: **NAV-SB3C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964602
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-SB3C-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24693.3 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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



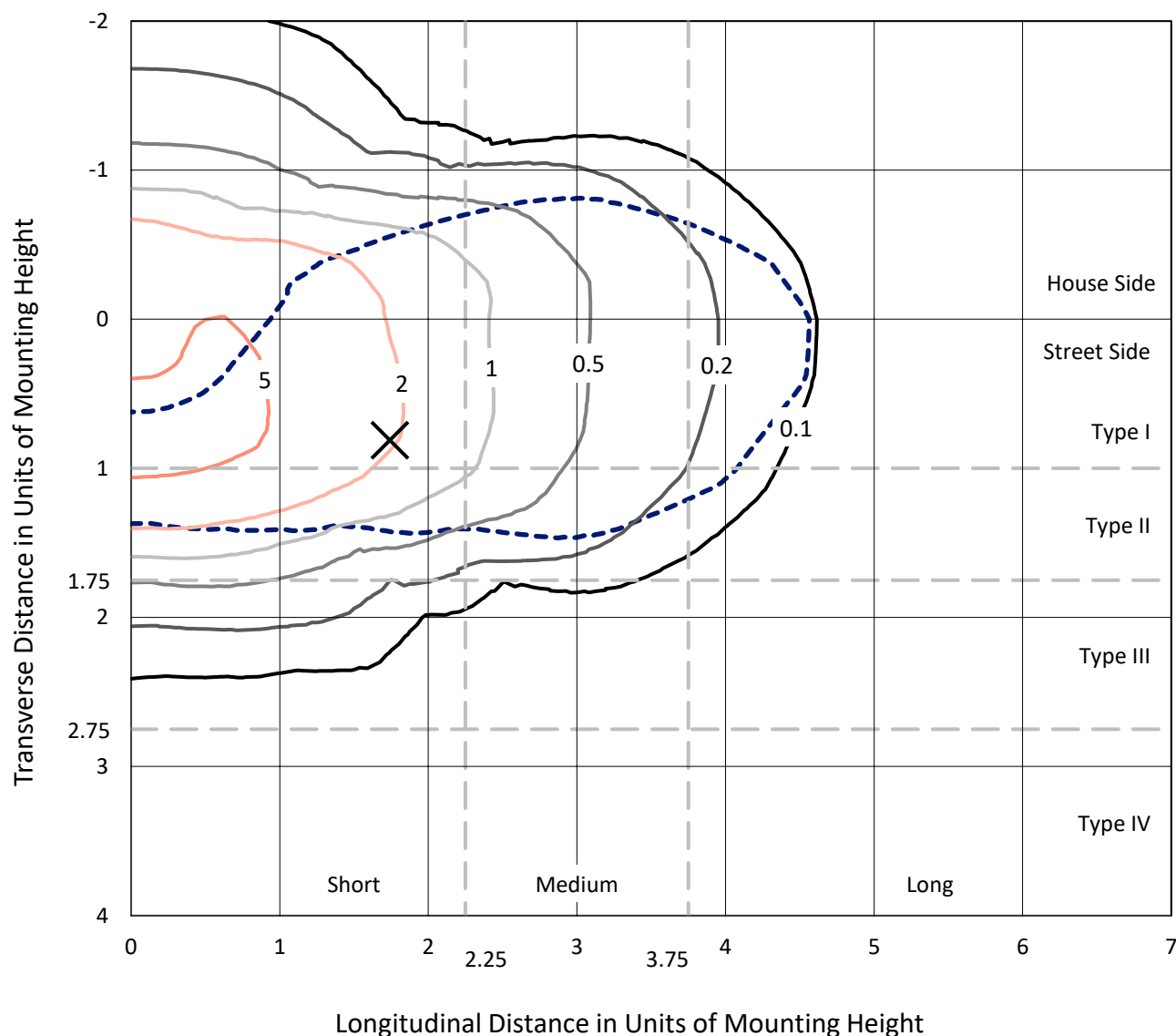
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

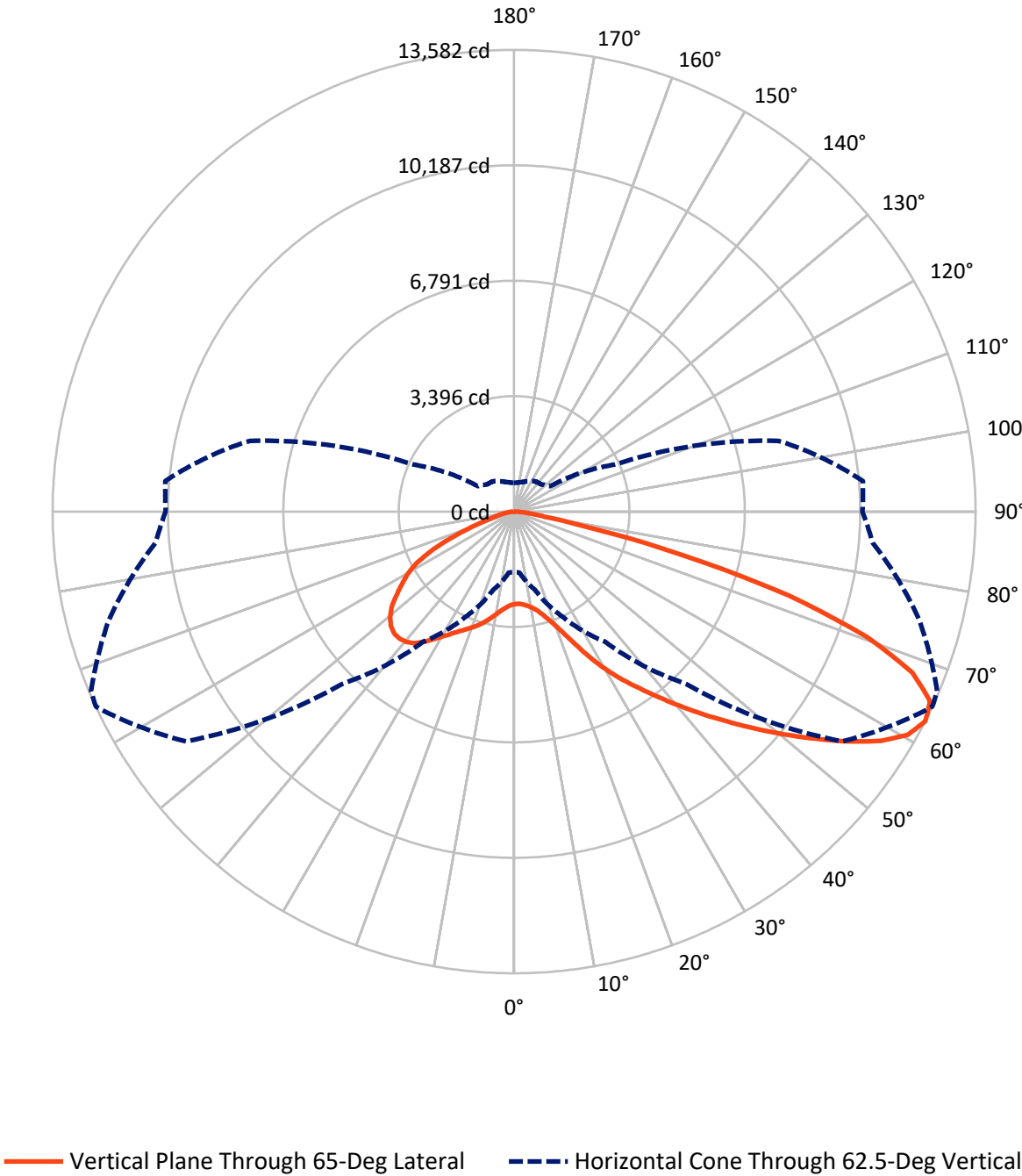


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc

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	7792.1	0.0	7792.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	16901.1	0.0	16901.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	24693.3	0.0	24693.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	1.1
10°-20°	920.0	3.7
20°-30°	1865.3	7.6
30°-40°	3227.9	13.1
40°-50°	4884.8	19.8
50°-60°	5727.2	23.2
60°-70°	4801.6	19.4
70°-80°	2650.8	10.7
80°-90°	344.3	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°	24693.3	100.0
0°-180°	24693.3	100.0

Coefficient of Utilization



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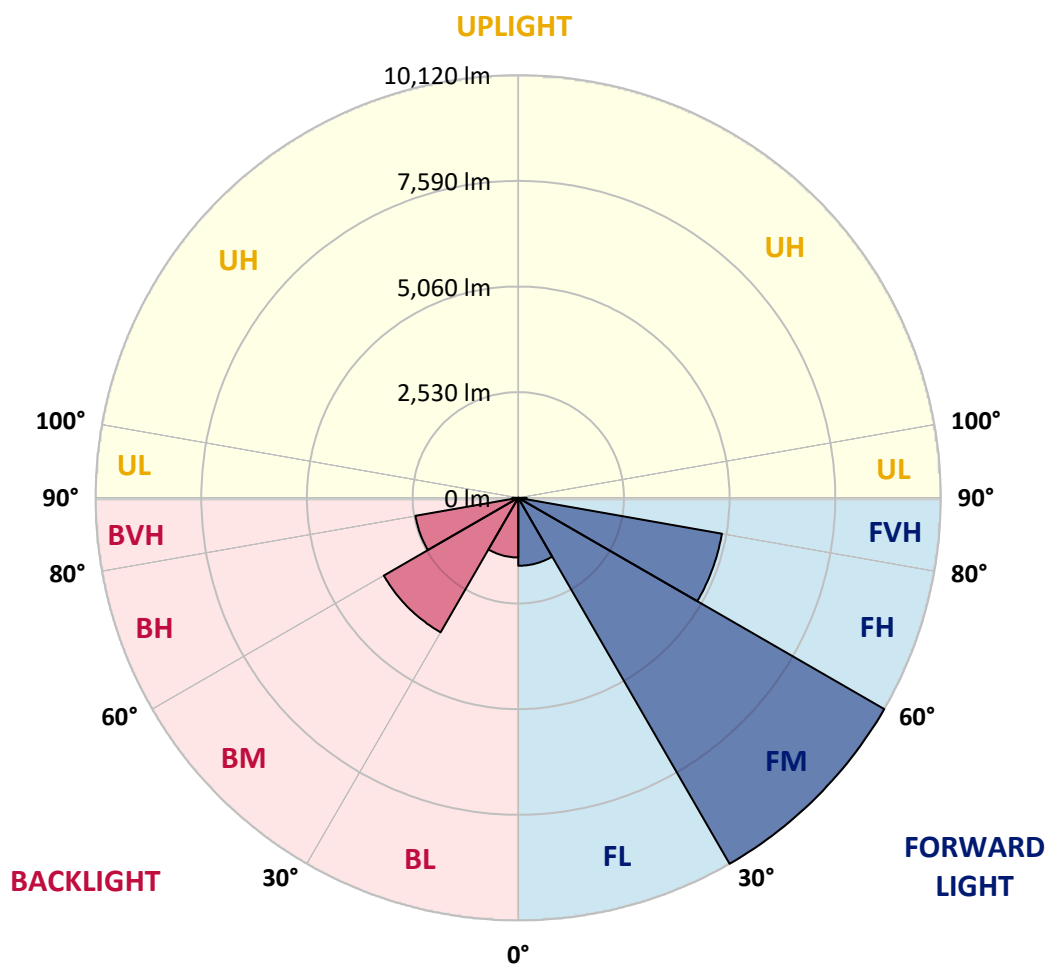
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1627.6	6.6			
FM	(30°-60°)	10120.1	41.0			
FH	(60°-80°)	4952.7	20.1			G2/5000
FVH	(80°-90°)	200.7	0.8			G2/225
BL	(0°-30°)	1429.0	5.8	B3/2500		
BM	(30°-60°)	3719.8	15.1	B3/5000		
BH	(60°-80°)	2499.6	10.1	B3/2500		G3/2500
BVH	(80°-90°)	143.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1
2.5°	2703.1	2695.4	2701.9	2701.9	2704.5	2703.1	2712.1	2714.7	2718.5	2726.2	2726.2
5°	2676.3	2674.9	2686.5	2696.8	2707.0	2715.9	2727.5	2744.1	2746.7	2755.7	2767.2
7.5°	2667.3	2659.6	2677.5	2690.3	2714.7	2736.4	2767.2	2795.4	2807.0	2810.8	2832.6
10°	2736.4	2723.6	2740.3	2748.0	2768.5	2790.3	2826.1	2871.0	2883.8	2899.2	2923.5
12.5°	2854.3	2840.3	2864.6	2876.1	2895.3	2914.6	2938.9	2982.4	2988.8	3017.0	3040.0
15°	3015.8	2999.0	3014.4	3028.6	3060.5	3078.5	3102.9	3145.1	3145.1	3166.9	3183.5
17.5°	3234.8	3213.1	3224.5	3229.7	3250.2	3277.1	3318.1	3355.2	3374.5	3366.8	3343.8
20°	3561.5	3534.6	3534.6	3509.0	3501.3	3523.0	3576.8	3628.1	3648.6	3608.9	3552.5
22.5°	4052.1	4013.7	3992.0	3904.8	3870.3	3872.9	3926.7	3989.4	4006.0	3935.6	3808.8
25°	4676.0	4615.9	4586.4	4458.2	4380.1	4312.3	4354.5	4435.2	4458.2	4371.2	4166.2
27.5°	5300.0	5303.9	5275.7	5121.9	4992.5	4868.2	4846.5	4931.0	4955.4	4856.8	4603.1
30°	6175.0	6084.0	6030.2	5845.8	5661.3	5487.0	5397.3	5431.9	5438.3	5320.5	5025.8
32.5°	6929.5	6906.4	6791.2	6629.8	6392.8	6119.9	5970.0	5914.9	5904.7	5736.8	5387.1
35°	7789.2	7776.4	7654.7	7462.5	7206.3	6827.1	6556.7	6399.2	6386.4	6150.6	5744.5
37.5°	8662.9	8662.9	8543.8	8333.7	8068.5	7594.4	7183.2	6933.4	6892.4	6584.9	6108.4
40°	9359.8	9317.6	9339.4	9250.9	8947.3	8443.8	7878.9	7516.3	7461.2	7092.3	6495.2
42.5°	9755.7	9741.6	9872.3	9970.9	9846.7	9444.3	8645.0	8147.9	8071.1	7650.8	6941.1
45°	9844.1	9828.7	10061.9	10423.1	10597.4	10432.1	9477.7	8812.8	8719.3	8235.1	7418.9
47.5°	9640.4	9609.7	9951.7	10521.8	11080.4	11371.1	10379.6	9534.0	9398.2	8803.8	7909.6
50°	9028.0	8998.6	9516.1	10273.3	11243.1	12009.2	11358.3	10298.9	10091.3	9413.6	8405.4
52.5°	7696.9	7711.1	8522.0	9562.2	11029.1	12406.3	12201.4	11104.7	10854.9	10037.5	8870.5
55°	5995.6	6026.4	7023.1	8168.4	10173.3	12346.1	12776.6	11934.9	11686.3	10624.3	9350.9
57.5°	4293.0	4428.8	5362.8	6496.6	8529.6	11391.6	12902.1	12724.0	12483.2	11264.9	9821.0
60°	2782.6	2807.0	3767.8	4910.6	6495.2	9695.5	12647.2	13322.3	13134.0	11918.2	10214.3
62.5°	1783.3	1800.0	2385.5	3434.7	4674.8	7173.0	11788.8	13582.4	13524.8	12349.9	10592.2
65°	1310.6	1297.8	1602.7	2270.2	3149.0	4423.7	10122.1	13456.8	13570.9	12620.3	10904.9
67.5°	1094.1	1076.1	1226.0	1571.9	2320.1	2512.3	7489.4	12640.8	13058.4	12589.6	11134.2
70°	996.7	981.3	1072.3	1167.1	1810.3	1682.1	3775.5	10989.4	11632.5	12239.8	11097.1
72.5°	844.3	817.3	941.7	1036.4	1407.9	1290.1	1560.4	8441.3	9225.3	11118.8	10574.3
75°	654.7	636.7	743.0	912.1	1058.2	1007.0	986.5	5125.7	5981.5	8598.8	9250.9
77.5°	518.9	494.5	591.8	711.0	951.9	759.7	718.7	2207.3	3055.4	5489.6	6921.8
80°	390.7	369.0	449.7	562.4	731.5	572.7	465.0	900.7	1151.7	2781.3	3480.8
82.5°	278.0	258.8	313.9	412.6	492.0	513.7	285.7	504.7	567.5	1072.3	777.7
85°	178.0	166.6	210.1	258.8	312.6	330.6	174.2	263.9	289.6	442.0	324.1
87.5°	97.4	79.4	112.7	120.4	144.7	131.9	83.2	96.0	103.7	160.1	137.0
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°	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1	2721.1
2.5°	2731.3	2735.2	2748.0	2751.8	2760.8	2772.3	2780.0	2787.7	2787.7	2795.4	2795.4
5°	2768.5	2777.4	2804.4	2818.4	2841.5	2864.6	2878.7	2895.3	2905.6	2910.7	2913.3
7.5°	2840.3	2854.3	2892.8	2917.1	2956.8	2988.8	3010.6	3033.7	3038.8	3052.9	3047.7
10°	2937.6	2954.3	2997.8	3043.9	3091.3	3131.1	3151.6	3168.2	3174.6	3177.2	3170.7
12.5°	3049.1	3073.4	3129.7	3186.1	3236.1	3270.7	3275.8	3272.0	3254.1	3238.7	3238.7
15°	3186.1	3207.9	3270.7	3332.2	3380.9	3387.3	3355.2	3334.7	3313.0	3309.1	3309.1
17.5°	3350.1	3361.7	3419.3	3479.5	3483.4	3461.5	3414.2	3395.0	3374.5	3360.4	3361.7
20°	3541.0	3537.2	3578.2	3603.8	3576.8	3510.2	3438.6	3406.5	3386.0	3369.4	3370.6
22.5°	3769.0	3739.6	3734.5	3728.0	3656.3	3516.7	3419.3	3378.3	3346.3	3323.3	3330.9
25°	4100.8	3988.1	3910.0	3866.4	3705.0	3482.0	3357.8	3266.9	3206.6	3166.9	3182.3
27.5°	4515.9	4326.3	4129.0	4022.7	3705.0	3411.6	3209.2	3061.9	2963.2	2922.3	2942.8
30°	4911.8	4713.3	4422.5	4211.0	3696.0	3296.3	2969.6	2764.6	2649.3	2608.3	2632.7
32.5°	5250.0	5033.5	4733.8	4417.3	3674.2	3109.2	2672.4	2445.6	2334.2	2285.5	2309.8
35°	5563.9	5333.3	5046.3	4644.1	3616.6	2835.1	2345.7	2172.8	2048.5	1970.4	1996.0
37.5°	5885.4	5611.3	5342.3	4849.1	3512.8	2514.8	2094.6	1947.3	1801.2	1696.2	1724.4
40°	6235.2	5907.3	5658.7	4970.7	3342.4	2209.9	1899.9	1765.4	1610.4	1498.9	1520.7
42.5°	6643.8	6262.1	6011.0	5033.5	3109.2	1993.4	1773.0	1641.1	1495.1	1404.1	1422.1
45°	7070.4	6652.9	6332.6	5032.2	2849.2	1892.3	1732.0	1601.4	1440.0	1345.2	1360.6
47.5°	7517.6	7061.5	6610.5	4950.2	2623.7	1906.3	1709.0	1515.6	1337.5	1245.3	1258.1
50°	7966.0	7508.6	6879.6	4796.5	2527.6	1875.5	1623.2	1395.1	1185.0	1101.8	1106.9
52.5°	8410.5	7983.9	7111.4	4577.4	2430.3	1761.6	1513.0	1238.8	1122.3	1064.6	1064.6
55°	8857.6	8454.1	7363.9	4258.5	2186.8	1628.3	1328.5	1179.9	1072.3	1019.8	1014.6
57.5°	9306.1	8997.2	7603.4	3939.5	1880.7	1464.3	1227.3	1108.1	1022.3	977.5	969.9
60°	9772.3	9618.6	7850.7	3646.0	1578.3	1254.2	1153.0	1050.5	963.4	913.5	909.6
62.5°	10252.8	10302.8	8044.1	3268.1	1300.3	1126.1	1086.4	981.3	896.8	849.4	848.1
65°	10737.1	10962.5	8171.0	2744.1	1054.3	1004.4	1014.6	905.8	819.9	778.9	777.7
67.5°	11102.2	11437.8	8135.1	2076.6	864.8	889.1	925.0	826.4	745.6	713.6	714.8
70°	11143.2	11381.4	7781.5	1422.1	723.9	776.3	825.0	748.1	664.9	641.9	643.1
72.5°	10597.4	10612.7	6796.4	928.9	612.3	681.5	720.0	668.7	588.0	565.0	563.6
75°	9166.4	8777.0	4989.9	612.3	512.4	585.5	621.4	585.5	507.3	512.4	494.5
77.5°	6944.9	6216.0	3029.8	435.6	427.9	492.0	540.6	515.0	448.4	503.5	443.3
80°	3578.2	3362.9	1351.6	325.4	338.2	393.3	444.5	411.2	354.9	338.2	308.7
82.5°	819.9	953.1	532.9	233.2	244.7	283.1	339.5	308.7	254.9	215.2	212.7
85°	287.0	313.9	235.7	146.1	143.5	176.8	230.6	206.2	172.9	138.4	146.1
87.5°	90.9	119.1	88.4	58.9	61.5	79.4	106.3	97.4	80.7	52.5	55.0
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)