

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: P965014

Luminaire Tested: **NAV-SB3D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25802.3 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

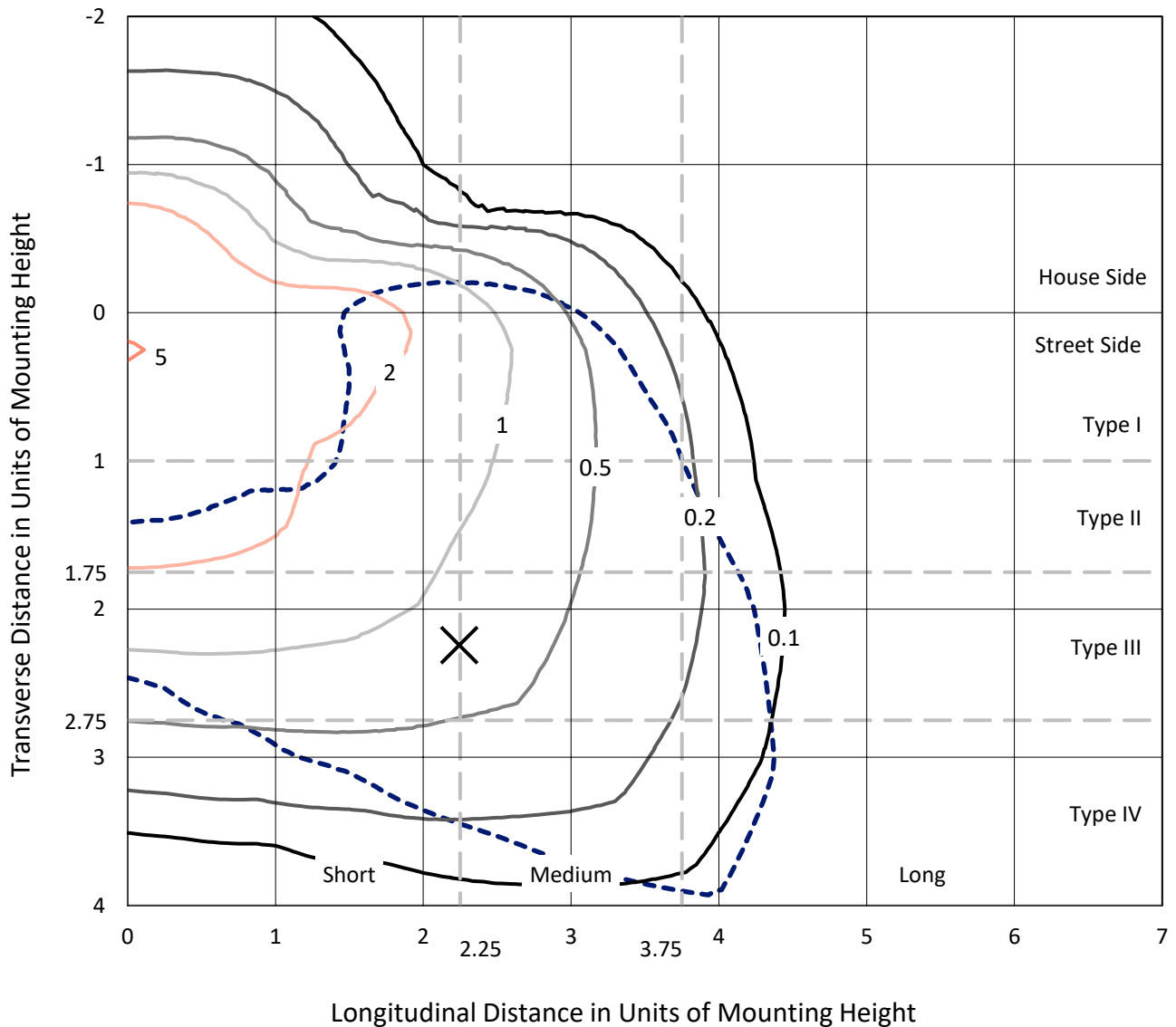
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

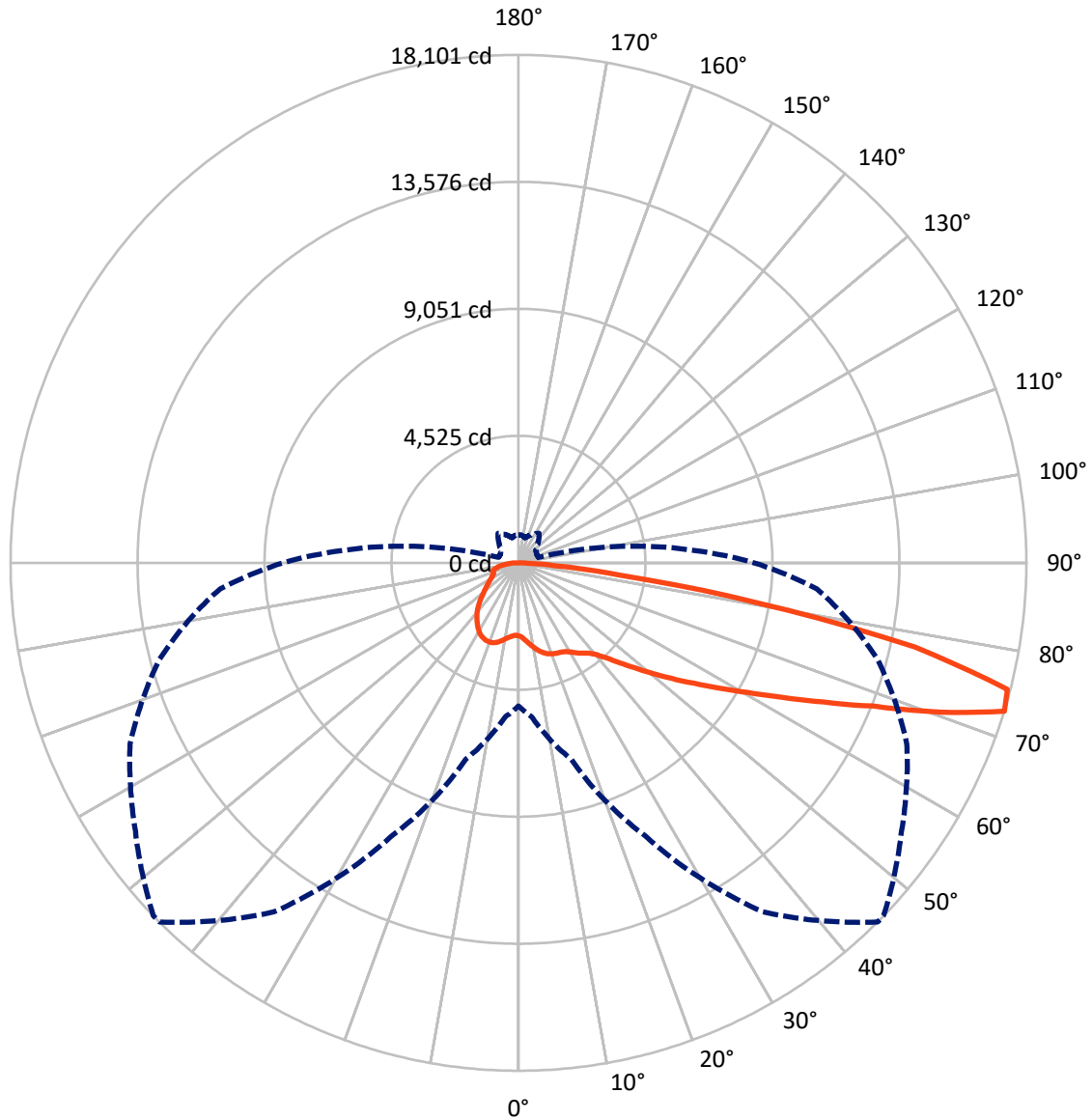
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5833.0	0.0	5833.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19969.3	0.0	19969.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	25802.3	0.0	25802.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.9	1.0
10°-20°	883.3	3.4
20°-30°	1536.6	6.0
30°-40°	2202.7	8.5
40°-50°	3101.6	12.0
50°-60°	4750.7	18.4
60°-70°	6882.2	26.7
70°-80°	5495.8	21.3
80°-90°	684.5	2.7
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°	25802.3	100.0
0°-180°	25802.3	100.0

Coefficient of Utilization

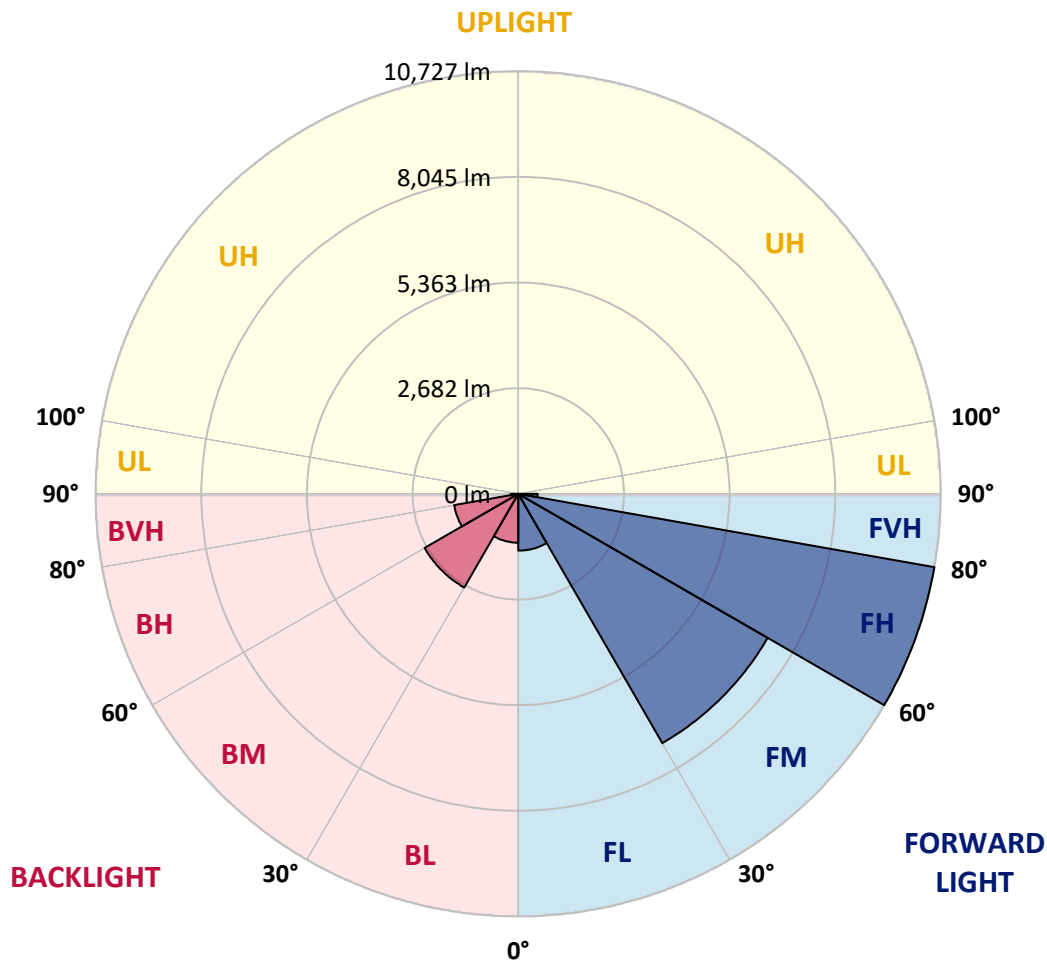


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.9	5.6			
FM (30°-60°)	7308.6	28.3			
FH (60°-80°)	10726.8	41.6			G4/12000
FVH (80°-90°)	491.1	1.9			G3/500
BL (0°-30°)	1241.9	4.8	B3/2500		
BM (30°-60°)	2746.5	10.6	B3/5000		
BH (60°-80°)	1651.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	193.4	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0
2.5°	2704.9	2722.6	2706.2	2691.3	2684.5	2666.8	2665.5	2654.6	2647.8	2628.8	2623.4
5°	2893.8	2916.9	2889.8	2859.9	2832.7	2789.1	2783.7	2752.4	2717.2	2676.4	2653.2
7.5°	3107.2	3127.6	3096.3	3051.5	3004.0	2931.9	2930.6	2873.5	2817.7	2748.4	2709.0
10°	3293.4	3320.6	3278.5	3217.4	3157.5	3075.9	3066.5	3001.2	2930.6	2840.8	2781.0
12.5°	3457.9	3476.9	3436.2	3361.4	3292.1	3210.5	3198.3	3126.2	3047.4	2945.4	2869.4
15°	3588.4	3612.9	3558.5	3478.3	3404.9	3324.7	3313.8	3248.6	3169.7	3062.4	2964.5
17.5°	3674.0	3694.4	3638.6	3549.0	3478.3	3411.7	3403.5	3349.2	3279.9	3171.1	3066.5
20°	3706.7	3728.4	3669.9	3578.9	3513.6	3462.0	3457.9	3418.5	3370.9	3271.7	3165.7
22.5°	3739.3	3759.7	3683.5	3588.4	3531.3	3498.7	3497.3	3471.5	3452.5	3370.9	3267.6
25°	3871.1	3876.6	3774.7	3637.3	3555.8	3527.2	3525.9	3524.6	3532.7	3468.8	3377.7
27.5°	3985.3	3984.0	3896.9	3767.8	3641.4	3581.7	3580.2	3593.9	3619.7	3566.7	3491.9
30°	4152.5	4137.5	4034.2	3899.7	3784.1	3691.7	3683.5	3671.3	3691.7	3649.6	3606.1
32.5°	4507.2	4459.7	4292.5	4053.3	3902.4	3831.8	3820.8	3744.7	3752.8	3727.0	3705.3
35°	5015.6	4953.1	4730.2	4344.2	4049.2	3948.6	3943.2	3846.6	3830.3	3807.3	3815.4
37.5°	5620.5	5543.0	5283.4	4765.5	4302.0	4084.5	4076.3	3989.4	3922.8	3898.3	3944.5
40°	6228.1	6130.2	5915.5	5279.3	4674.4	4311.6	4285.7	4153.8	4077.8	4037.0	4134.8
42.5°	6818.0	6736.4	6552.9	5855.6	5133.8	4643.1	4586.1	4360.5	4303.4	4265.3	4442.0
45°	7339.9	7266.5	7132.0	6471.3	5672.1	5094.5	5038.7	4670.4	4652.7	4652.7	4908.2
47.5°	7764.0	7747.7	7605.0	7099.4	6306.9	5608.3	5511.7	5101.2	5148.8	5222.2	5570.2
50°	8234.3	8189.4	8037.2	7717.7	7053.1	6196.8	6117.9	5630.0	5808.1	6009.3	6527.1
52.5°	8666.6	8691.0	8521.1	8362.1	7895.9	6853.4	6714.7	6253.8	6638.5	6971.5	7648.4
55°	9111.0	9112.4	9064.8	9043.1	8779.3	7579.2	7426.9	7004.2	7615.9	8029.0	8956.0
57.5°	9528.3	9531.1	9601.7	9793.4	9804.2	8416.5	8243.8	7925.7	8701.8	9123.2	10304.4
60°	9900.8	9919.7	10112.8	10561.3	10705.4	9376.1	9213.0	9014.5	9824.6	10248.7	11722.1
62.5°	10025.8	10095.1	10524.6	11162.1	11595.7	10553.2	10392.8	10274.5	11004.4	11398.6	12907.4
65°	9813.8	9972.7	10803.3	11658.2	12511.9	11951.8	11792.8	11663.7	12230.5	12601.6	13880.6
67.5°	9293.2	9498.4	10787.0	12178.8	13623.7	13634.6	13486.4	13183.3	13544.9	13687.5	14197.3
70°	7921.7	8228.9	9836.8	12373.2	14900.0	15935.8	15793.1	15012.9	14856.6	14166.0	13305.6
72.5°	5104.0	5517.2	7243.4	10773.4	15184.1	18101.1	18092.9	16664.3	15271.1	13236.3	10671.4
75°	1862.1	2115.0	3365.5	6762.2	12745.7	17991.0	18044.0	16381.7	13940.4	10224.3	6648.0
77.5°	678.2	742.1	1098.3	2598.9	7838.8	14435.2	14545.3	13096.3	9922.5	5131.2	2634.2
80°	356.1	391.4	562.7	1008.6	3358.7	8572.8	8745.4	7783.0	4663.5	1545.5	789.8
82.5°	197.1	213.4	315.4	547.8	1512.8	3665.9	3769.2	3074.6	1640.6	655.2	326.3
85°	106.0	112.9	148.1	299.0	739.4	1270.9	1299.4	918.8	653.8	384.7	157.6
87.5°	31.3	38.0	48.9	95.1	289.6	285.5	292.2	182.1	258.3	194.3	51.7
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°	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0
2.5°	2615.2	2611.1	2596.1	2589.4	2581.2	2579.8	2586.7	2588.0	2589.4	2590.7	2596.1
5°	2639.7	2626.0	2612.4	2604.3	2607.0	2608.4	2622.0	2631.5	2638.2	2643.7	2646.4
7.5°	2687.2	2676.4	2653.2	2651.9	2656.0	2668.2	2685.9	2707.6	2719.8	2729.4	2732.0
10°	2757.9	2737.5	2710.3	2714.4	2722.6	2740.2	2776.9	2794.6	2815.0	2832.7	2828.6
12.5°	2829.9	2812.3	2781.0	2783.7	2797.3	2828.6	2864.0	2885.7	2899.3	2912.8	2918.3
15°	2923.7	2892.4	2858.5	2858.5	2882.9	2916.9	2933.2	2950.9	2959.1	2974.0	2979.5
17.5°	3020.3	2979.5	2934.6	2931.9	2961.8	2978.1	2987.6	2990.3	2993.1	3009.4	3014.8
20°	3116.7	3071.9	3008.0	3002.5	3009.4	3006.6	3005.3	3002.5	3006.6	3027.0	3035.2
22.5°	3211.9	3160.3	3071.9	3047.4	3028.4	3002.5	3001.2	2999.9	3002.5	3022.9	3036.6
25°	3323.4	3260.8	3142.5	3069.2	3005.3	2969.9	2974.0	2975.4	2978.1	2994.4	3016.2
27.5°	3444.3	3375.0	3207.8	3062.4	2946.9	2922.4	2915.6	2919.6	2929.1	2955.0	2980.8
30°	3565.3	3483.8	3267.6	3035.2	2873.5	2839.5	2817.7	2827.3	2857.1	2882.9	2911.5
32.5°	3675.4	3593.9	3315.2	2975.4	2779.7	2726.6	2698.1	2710.3	2740.2	2749.8	2783.7
35°	3804.5	3712.1	3335.6	2880.2	2677.7	2596.1	2558.1	2540.5	2555.4	2545.9	2575.7
37.5°	3948.6	3852.1	3332.9	2755.2	2558.1	2464.3	2411.3	2344.7	2313.4	2280.8	2301.2
40°	4162.0	4023.3	3300.3	2604.3	2410.0	2324.3	2229.2	2116.3	2045.7	1981.7	1985.8
42.5°	4452.9	4261.2	3240.4	2438.5	2242.8	2162.5	2033.4	1901.6	1790.2	1684.1	1674.5
45°	4886.5	4572.5	3165.7	2261.8	2062.0	1983.2	1843.2	1694.9	1568.6	1432.6	1416.3
47.5°	5511.7	4991.1	3095.0	2060.7	1871.6	1799.6	1673.2	1536.0	1386.4	1254.6	1239.6
50°	6370.8	5591.9	3029.8	1864.9	1684.1	1629.7	1529.2	1389.2	1238.3	1132.2	1125.4
52.5°	7463.6	6408.8	3002.5	1676.0	1508.8	1488.4	1408.1	1277.7	1135.0	1045.3	1038.4
55°	8718.2	7386.2	3002.5	1495.2	1355.2	1361.9	1306.3	1185.3	1061.6	981.3	973.2
57.5°	9998.6	8375.7	2948.2	1328.0	1224.7	1253.3	1217.9	1111.8	1000.4	917.5	903.9
60°	11178.4	9204.8	2728.0	1175.8	1109.2	1154.0	1130.9	1039.9	903.9	834.6	823.7
62.5°	12085.1	9672.4	2303.9	1054.7	1014.0	1065.7	1053.4	944.6	886.2	857.7	848.2
65°	12539.0	9596.3	1761.6	947.4	933.8	1014.0	988.2	984.1	937.9	905.3	894.4
67.5°	12260.3	8941.1	1277.7	868.6	887.5	966.5	1065.7	1082.0	996.3	932.4	921.6
70°	11038.4	7755.9	951.5	793.8	829.1	967.8	1215.1	1132.2	977.3	902.5	890.3
72.5°	8397.4	5783.6	738.1	714.9	753.1	974.6	1281.8	1109.2	922.9	997.7	989.5
75°	4802.2	3175.2	592.7	618.5	657.8	910.7	1247.8	1049.3	880.8	916.1	916.1
77.5°	1830.9	1220.6	489.3	523.3	528.7	795.2	1193.4	1045.3	838.7	818.3	746.2
80°	634.8	477.1	405.1	415.9	409.2	706.8	1144.5	909.4	686.4	614.4	594.0
82.5°	259.6	237.9	320.8	307.2	290.9	549.1	924.2	743.5	561.4	496.1	490.7
85°	112.9	150.9	212.1	186.2	168.5	380.6	740.8	629.3	474.4	409.2	407.7
87.5°	23.1	57.1	89.7	84.3	87.0	254.2	526.0	447.2	335.7	251.4	197.1
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)