

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: P885009

Luminaire Tested: **NAV-SB6A-830-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23840 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

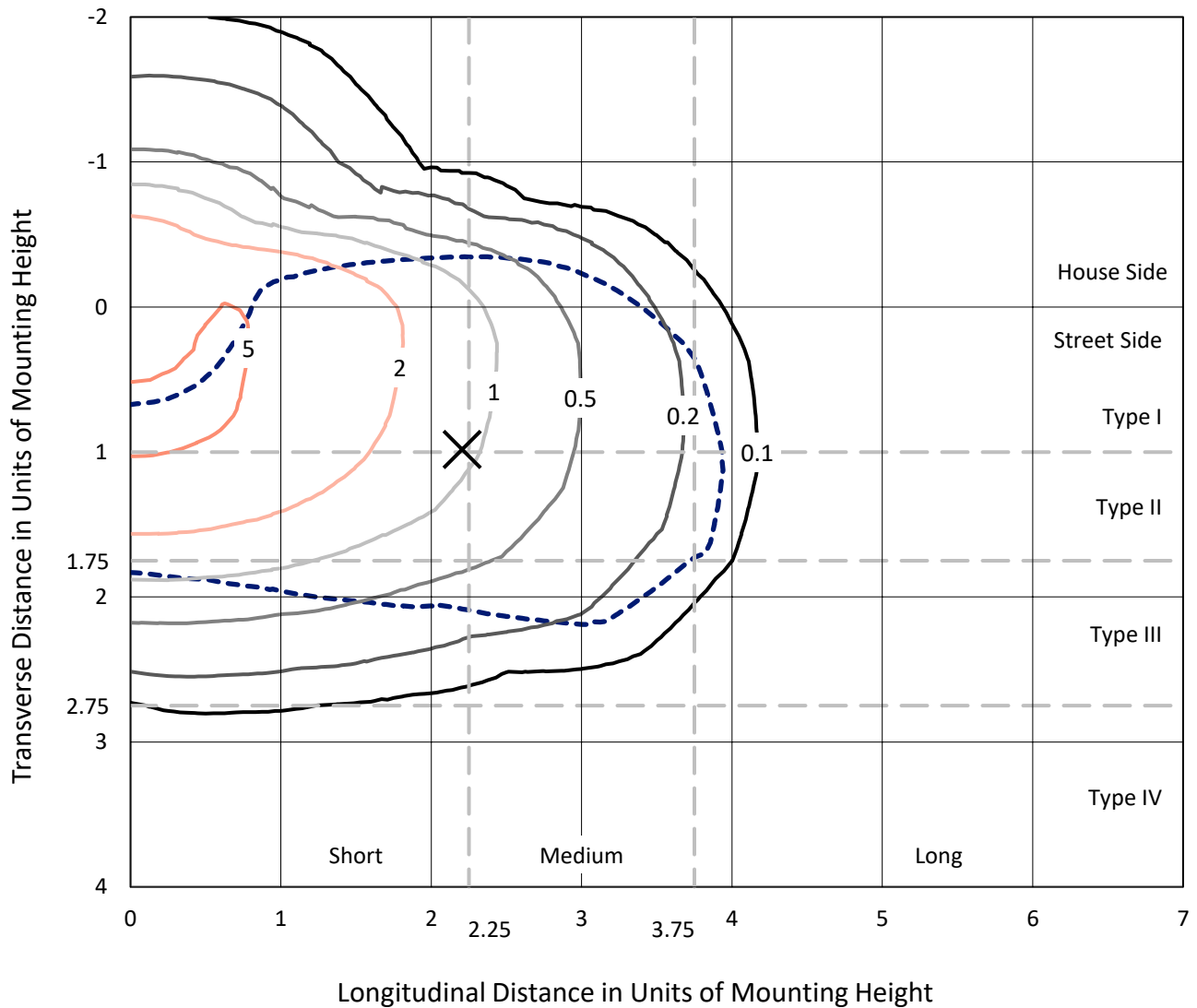
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

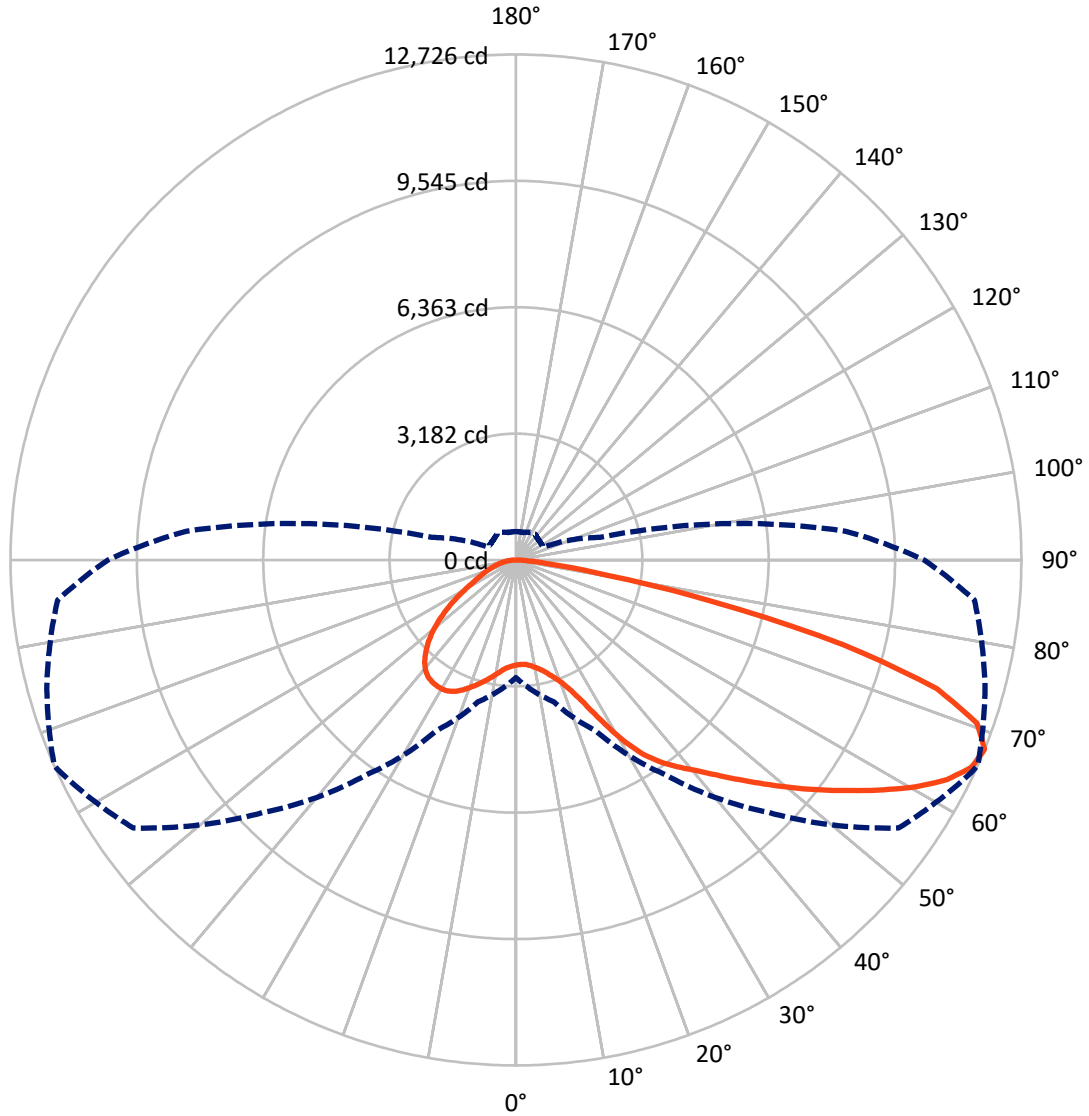
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5927.7	0.0	5927.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	17912.3	0.0	17912.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	23840.0	0.0	23840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.1
10°-20°	866.1	3.6
20°-30°	1669.4	7.0
30°-40°	2927.1	12.3
40°-50°	4351.7	18.3
50°-60°	5516.2	23.1
60°-70°	5397.5	22.6
70°-80°	2574.6	10.8
80°-90°	275.2	1.2
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°	23840.0	100.0
0°-180°	23840.0	100.0

Coefficient of Utilization



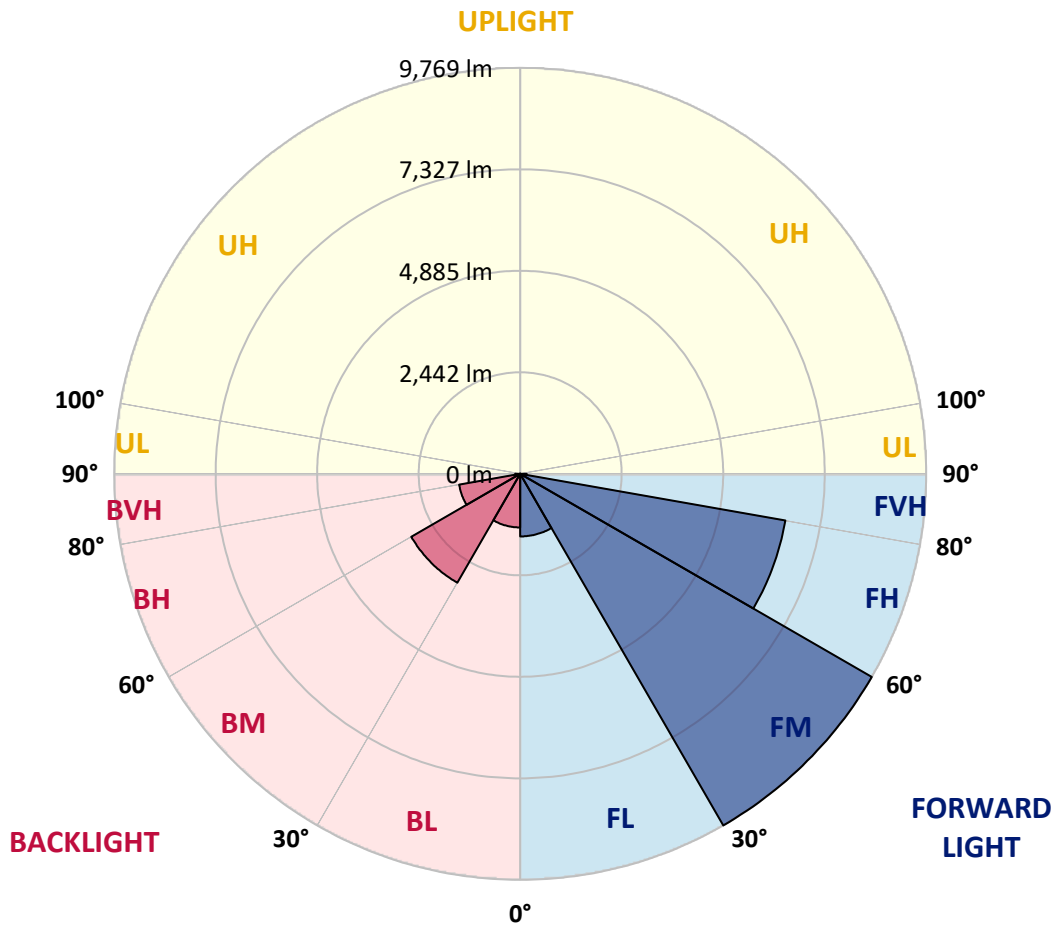
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.4	6.3			
FM (30°-60°)	9769.4	41.0			
FH (60°-80°)	6480.4	27.2			G3/7500
FVH (80°-90°)	156.0	0.7			G2/225
BL (0°-30°)	1291.3	5.4	B3/2500		
BM (30°-60°)	3025.6	12.7	B3/5000		
BH (60°-80°)	1491.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	119.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2
2.5°	2616.6	2631.6	2627.9	2621.6	2620.4	2622.9	2626.6	2630.4	2629.1	2635.4	2645.4
5°	2609.1	2624.1	2622.9	2622.9	2627.9	2637.9	2644.2	2650.4	2644.2	2651.7	2665.5
7.5°	2614.1	2625.4	2630.4	2635.4	2647.9	2666.7	2681.7	2695.5	2688.0	2696.8	2714.3
10°	2678.0	2686.8	2691.8	2691.8	2700.5	2721.8	2736.9	2761.9	2755.6	2769.4	2792.0
12.5°	2794.5	2803.2	2803.2	2798.2	2804.5	2818.3	2823.3	2850.8	2839.6	2862.1	2884.7
15°	2937.3	2954.8	2941.0	2932.3	2934.8	2948.5	2947.3	2968.6	2957.3	2976.1	2996.1
17.5°	3095.1	3117.6	3095.1	3093.8	3088.8	3103.9	3105.1	3123.9	3103.9	3117.6	3131.4
20°	3281.7	3313.0	3294.3	3300.5	3289.2	3295.5	3301.8	3329.3	3298.0	3308.0	3304.3
22.5°	3544.8	3582.3	3562.3	3586.1	3578.6	3573.6	3572.3	3621.2	3572.3	3576.1	3539.8
25°	3928.1	3973.1	3938.1	3970.6	3970.6	3986.9	4005.7	4068.3	3986.9	3963.1	3869.2
27.5°	4494.2	4539.3	4470.4	4490.5	4484.2	4524.3	4504.2	4659.6	4571.9	4533.0	4343.9
30°	5175.6	5255.8	5125.5	5120.5	5114.2	5178.1	5206.9	5309.6	5220.7	5181.9	4953.9
32.5°	5912.1	5996.0	5840.7	5795.6	5771.8	5810.7	5786.9	5869.5	5808.2	5748.0	5466.2
35°	6691.2	6773.9	6626.1	6538.4	6443.2	6361.8	6276.6	6297.9	6240.3	6148.9	5857.0
37.5°	7427.7	7579.3	7422.7	7328.8	7153.4	6994.3	6756.4	6657.4	6603.5	6519.6	6225.3
40°	8178.0	8264.4	8145.4	8065.3	7874.9	7625.6	7244.9	7035.7	6963.0	6881.6	6632.3
42.5°	8730.4	8813.1	8749.2	8694.1	8545.0	8255.7	7763.4	7501.6	7396.4	7305.0	7093.3
45°	9168.8	9230.2	9190.1	9210.1	9146.3	8865.7	8300.8	8001.4	7892.4	7781.0	7614.4
47.5°	9345.4	9410.5	9474.4	9593.4	9702.4	9495.7	8878.2	8542.5	8427.3	8313.3	8149.2
50°	9325.4	9391.8	9577.1	9830.2	10168.3	10099.5	9487.0	9118.7	9012.2	8882.0	8730.4
52.5°	9165.0	9240.2	9478.2	9899.0	10437.6	10551.6	10107.0	9713.7	9613.5	9458.1	9306.6
55°	8744.2	8789.3	9146.3	9742.5	10501.5	10867.3	10714.5	10347.5	10247.3	10030.6	9865.2
57.5°	7963.8	8029.0	8548.8	9320.4	10341.2	11081.5	11248.1	11013.8	10917.4	10605.5	10432.6
60°	6945.5	7049.5	7644.4	8611.4	9932.9	11080.2	11732.8	11668.9	11588.8	11171.7	10991.3
62.5°	5793.1	5913.4	6485.8	7609.4	9218.9	10765.8	12035.9	12217.5	12176.2	11694.0	11463.5
65°	4449.1	4531.8	5101.7	6312.9	8107.9	10090.7	12071.0	12592.1	12599.6	12091.0	11710.3
67.5°	2962.3	3200.3	3695.1	4737.2	6619.8	8987.2	11762.9	12653.4	12726.1	12227.6	11586.3
70°	1445.5	1758.6	2243.3	3078.8	4737.2	7295.0	10957.5	12149.9	12311.5	11829.3	10847.2
72.5°	600.0	701.4	965.7	1519.4	2719.3	4922.6	9339.1	10784.6	11084.0	10481.5	9119.9
75°	404.6	438.4	552.4	779.1	1238.8	2427.5	6735.1	8041.5	8523.7	7916.2	6470.8
77.5°	311.9	333.2	402.1	544.9	736.5	918.1	3604.9	4846.2	5095.4	4717.2	3366.9
80°	245.5	261.8	300.6	397.1	522.3	491.0	1228.8	2195.8	2339.8	1962.8	1082.2
82.5°	212.9	219.2	215.4	269.3	347.0	286.8	403.3	810.4	894.3	648.8	353.2
85°	154.1	171.6	179.1	166.6	184.1	145.3	165.3	286.8	315.6	281.8	199.2
87.5°	62.6	92.7	114.0	107.7	67.6	41.3	51.4	83.9	96.4	105.2	65.1
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°	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2	2644.2
2.5°	2646.7	2655.4	2661.7	2669.2	2674.2	2681.7	2696.8	2705.5	2706.8	2713.1	2711.8
5°	2670.5	2683.0	2696.8	2716.8	2739.4	2758.2	2787.0	2807.0	2814.5	2820.8	2819.5
7.5°	2721.8	2739.4	2764.4	2799.5	2832.1	2857.1	2892.2	2916.0	2939.8	2948.5	2949.8
10°	2798.2	2823.3	2859.6	2907.2	2942.3	2974.8	3011.2	3031.2	3055.0	3065.0	3070.0
12.5°	2893.4	2919.7	2967.3	3033.7	3066.3	3088.8	3101.4	3096.3	3101.4	3110.1	3112.6
15°	3002.4	3031.2	3085.1	3156.5	3179.0	3159.0	3131.4	3106.4	3102.6	3105.1	3113.9
17.5°	3131.4	3152.7	3215.3	3275.5	3259.2	3176.5	3116.4	3076.3	3056.3	3050.0	3058.8
20°	3311.8	3311.8	3363.1	3400.7	3291.7	3151.5	3057.5	2992.4	2951.1	2933.5	2929.8
22.5°	3531.0	3510.9	3543.5	3517.2	3285.5	3081.3	2951.1	2838.3	2775.7	2750.6	2746.9
25°	3809.1	3785.3	3776.5	3613.7	3240.4	2969.8	2758.2	2621.6	2566.5	2552.7	2555.2
27.5°	4228.7	4168.5	4054.6	3666.3	3157.7	2794.5	2532.7	2406.2	2374.9	2376.1	2379.9
30°	4787.3	4667.1	4387.7	3675.0	3022.4	2546.5	2302.2	2212.0	2197.0	2203.3	2224.6
32.5°	5304.6	5190.6	4728.4	3635.0	2814.5	2303.5	2095.5	2035.4	2012.9	2020.4	2030.4
35°	5710.5	5679.1	5044.1	3578.6	2559.0	2075.5	1910.2	1858.8	1815.0	1805.0	1812.5
37.5°	6093.7	6081.2	5280.8	3499.7	2306.0	1913.9	1761.1	1693.5	1629.6	1594.5	1595.8
40°	6514.6	6502.1	5436.1	3378.2	2081.8	1773.6	1627.1	1538.2	1459.2	1395.4	1401.6
42.5°	6988.1	6914.2	5510.0	3204.1	1891.4	1654.6	1518.1	1397.9	1293.9	1235.0	1238.8
45°	7505.4	7338.8	5508.8	2982.4	1731.0	1545.7	1401.6	1231.3	1134.8	1079.7	1077.2
47.5°	8054.0	7744.6	5441.2	2736.9	1575.7	1425.4	1221.3	1091.0	1027.1	993.3	985.8
50°	8620.2	8124.2	5325.9	2455.0	1416.7	1288.9	1108.5	1019.6	970.7	939.4	928.2
52.5°	9152.5	8468.6	5186.9	2135.6	1255.1	1156.1	1058.4	989.5	938.2	903.1	888.1
55°	9647.3	8765.5	4990.2	1808.7	1123.6	1067.2	1034.6	977.0	918.1	876.8	860.5
57.5°	10086.9	8958.4	4650.8	1501.8	1029.6	1005.8	1009.6	955.7	888.1	853.0	830.5
60°	10452.7	9099.9	4148.5	1217.5	953.2	945.7	970.7	915.6	836.7	796.6	779.1
62.5°	10671.9	9097.4	3532.2	997.0	888.1	890.6	919.4	865.5	785.4	747.8	736.5
65°	10653.1	8874.4	2855.9	853.0	825.4	827.9	865.5	810.4	742.8	720.2	719.0
67.5°	10276.1	8330.8	2190.7	759.1	756.6	767.8	811.7	772.8	716.5	714.0	717.7
70°	9255.2	7202.3	1578.2	683.9	685.2	701.4	759.1	749.0	702.7	707.7	706.4
72.5°	7421.5	5491.3	1059.7	605.0	606.2	632.5	709.0	730.2	688.9	755.3	765.3
75°	4942.6	3424.5	681.4	521.1	522.3	556.1	665.1	693.9	651.3	752.8	759.1
77.5°	2374.9	1539.4	493.5	438.4	438.4	469.7	574.9	621.3	554.9	584.9	536.1
80°	820.4	578.7	388.3	353.2	345.7	367.0	484.7	538.6	478.5	440.9	413.3
82.5°	323.2	300.6	311.9	274.3	249.3	263.0	377.0	444.7	352.0	318.2	316.9
85°	185.4	195.4	220.5	181.6	144.0	161.6	276.8	319.4	265.5	234.2	239.2
87.5°	50.1	68.9	101.5	93.9	65.1	68.9	131.5	176.6	152.8	117.7	121.5
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)