

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: P885014

Luminaire Tested: **NAV-SB6A-835-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22772 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

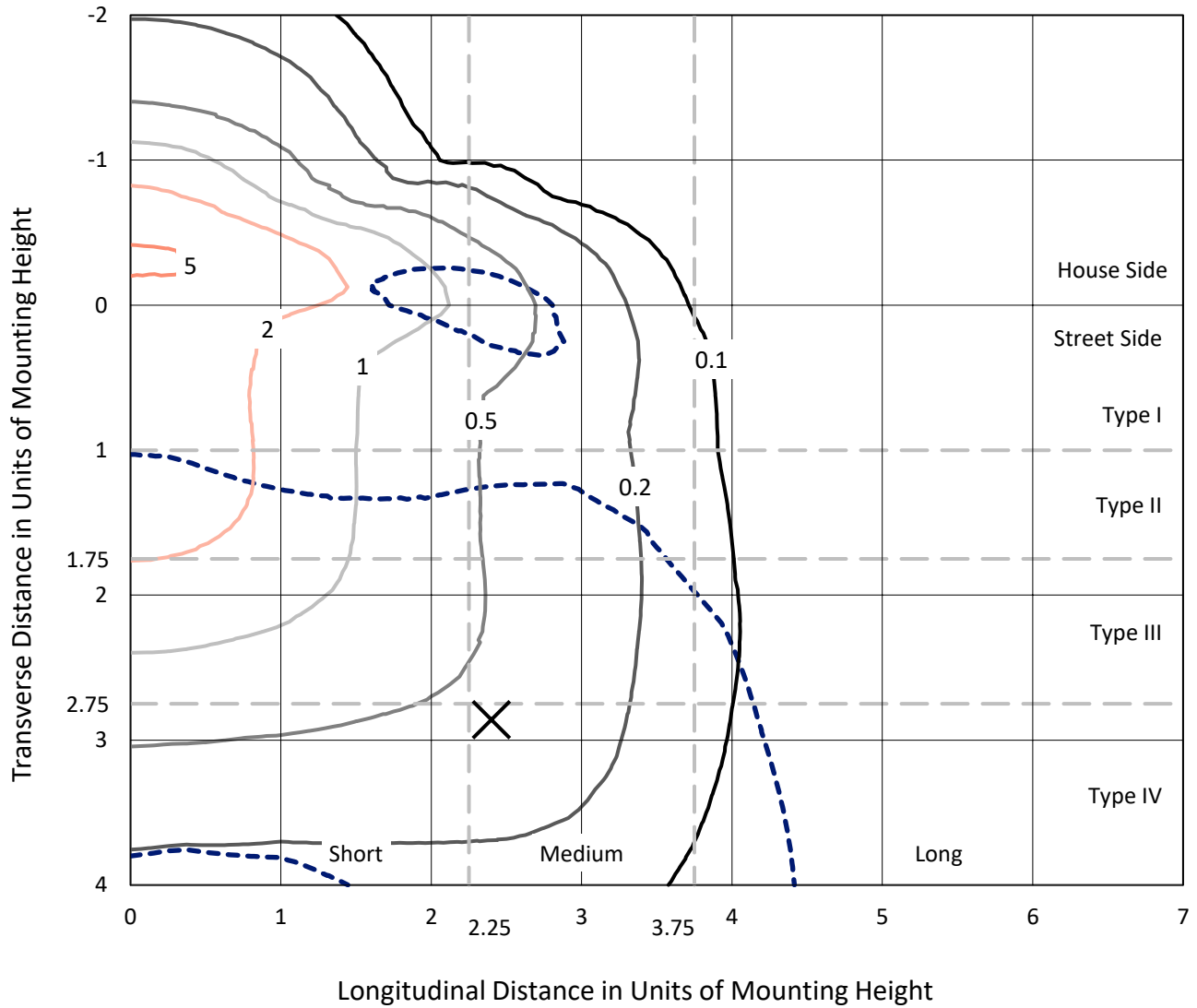
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

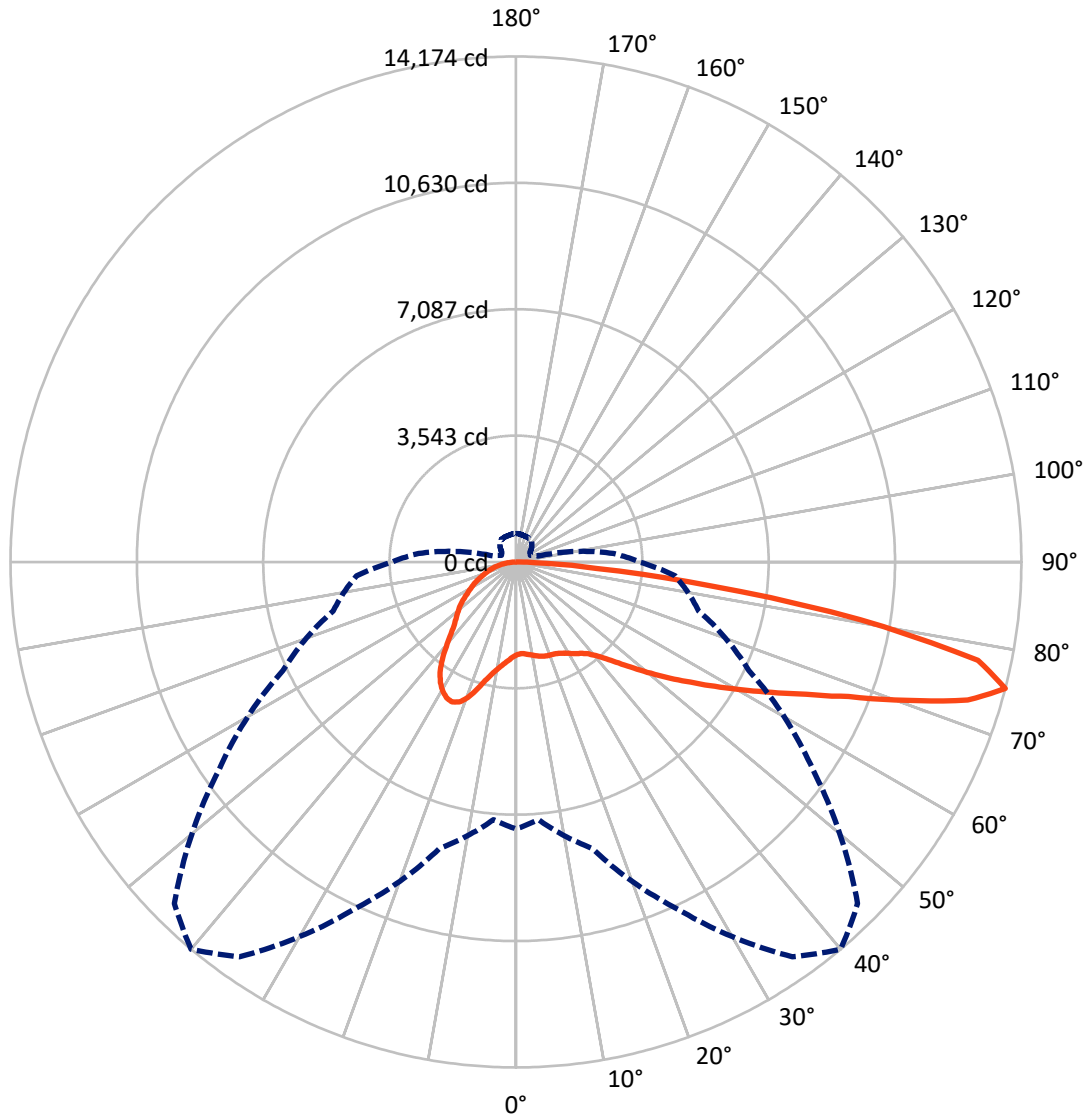
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7055.5	0.0	7055.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15716.5	0.0	15716.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	22772.0	0.0	22772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	1.1
10°-20°	872.7	3.8
20°-30°	1593.5	7.0
30°-40°	2260.0	9.9
40°-50°	3051.7	13.4
50°-60°	4105.3	18.0
60°-70°	5210.6	22.9
70°-80°	4728.9	20.8
80°-90°	689.3	3.0
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°	22772.0	100.0
0°-180°	22772.0	100.0

Coefficient of Utilization



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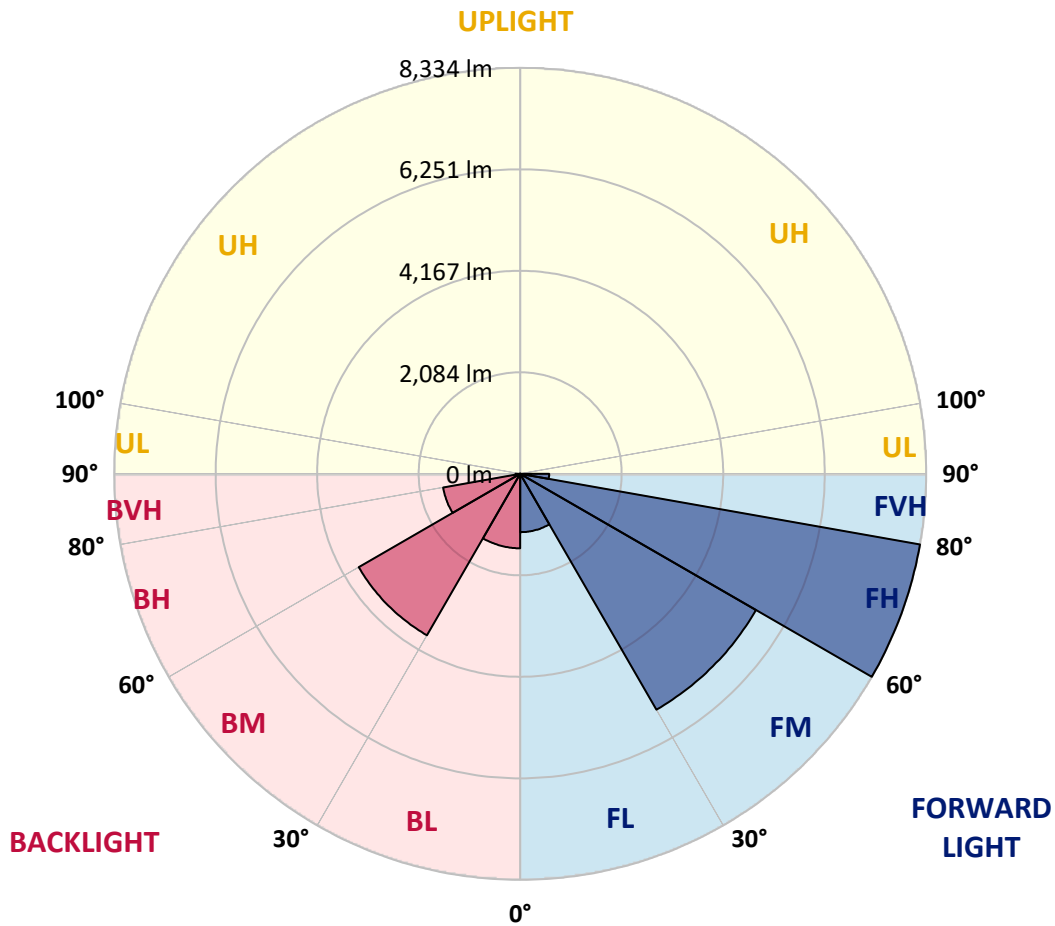
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.8	5.3			
FM (30°-60°)	5590.0	24.5			
FH (60°-80°)	8334.2	36.6			G4/12000
FVH (80°-90°)	594.4	2.6			G4/750
BL (0°-30°)	1528.3	6.7	B3/2500		
BM (30°-60°)	3827.0	16.8	B3/5000		
BH (60°-80°)	1605.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	94.9	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
2.5°	2564.2	2578.6	2575.0	2570.2	2570.2	2571.4	2570.2	2578.6	2587.1	2595.6	2608.8
5°	2590.7	2605.2	2598.0	2591.9	2587.1	2585.9	2582.3	2581.1	2585.9	2596.8	2614.9
7.5°	2642.7	2657.2	2646.3	2635.4	2625.7	2620.9	2616.1	2608.8	2605.2	2611.3	2636.6
10°	2700.6	2715.1	2701.8	2682.5	2666.8	2660.8	2655.9	2648.7	2643.9	2647.5	2675.3
12.5°	2758.6	2773.1	2755.0	2728.4	2707.9	2704.3	2698.2	2695.8	2694.6	2693.4	2721.2
15°	2813.0	2825.0	2802.1	2770.7	2748.9	2742.9	2736.9	2740.5	2746.5	2753.8	2785.2
17.5°	2855.2	2867.3	2833.5	2792.4	2771.9	2769.5	2765.9	2777.9	2794.8	2813.0	2851.6
20°	2893.9	2906.0	2862.5	2806.9	2782.8	2782.8	2784.0	2809.3	2833.5	2860.1	2913.2
22.5°	2948.2	2957.9	2904.7	2828.7	2793.6	2796.0	2805.7	2831.1	2861.3	2897.5	2971.2
25°	3029.2	3036.4	2971.2	2869.7	2829.9	2837.1	2845.6	2857.6	2886.6	2928.9	3027.9
27.5°	3159.6	3165.6	3079.9	2942.2	2881.8	2893.9	2906.0	2897.5	2910.8	2947.0	3073.8
30°	3343.2	3346.8	3238.1	3055.7	2970.0	2976.0	2978.4	2943.4	2918.0	2947.0	3106.5
32.5°	3560.6	3559.4	3430.1	3193.4	3070.2	3064.2	3043.6	2974.8	2915.6	2941.0	3135.4
35°	3897.6	3884.3	3717.6	3386.7	3183.8	3146.3	3098.0	3009.8	2927.7	2934.9	3160.8
37.5°	4455.6	4414.5	4183.8	3703.1	3352.8	3257.4	3186.2	3066.6	2954.3	2932.5	3191.0
40°	5084.8	5032.9	4779.2	4136.7	3606.5	3453.1	3338.3	3147.5	2997.8	2943.4	3235.7
42.5°	5831.2	5757.6	5484.6	4647.6	3927.8	3705.5	3532.8	3250.2	3061.8	2978.4	3296.1
45°	6748.0	6650.1	6263.6	5223.7	4332.4	4036.5	3805.8	3406.0	3159.6	3046.1	3386.7
47.5°	7674.3	7698.5	7148.9	5883.2	4817.9	4444.7	4147.6	3640.3	3302.1	3154.8	3532.8
50°	8658.7	8675.6	8029.4	6613.9	5368.7	4906.1	4531.7	3902.4	3500.2	3309.4	3751.4
52.5°	9426.8	9429.3	8829.0	7378.4	5942.4	5413.3	4945.9	4201.9	3729.7	3514.7	4042.5
55°	9907.6	9901.5	9389.4	8101.9	6601.8	5946.0	5404.9	4542.5	4009.9	3756.2	4408.5
57.5°	10256.6	10238.5	9775.9	8723.9	7304.8	6575.2	5924.2	4929.0	4340.8	4043.7	4890.4
60°	10389.5	10378.6	10038.0	9261.4	8043.9	7270.9	6523.3	5361.4	4716.4	4383.1	5510.0
62.5°	10440.2	10460.7	10295.3	9781.9	8835.0	8041.5	7181.6	5878.3	5139.2	4767.2	6163.4
65°	10618.9	10656.4	10622.6	10463.1	9728.8	8943.7	8054.8	6493.1	5600.6	5179.0	6845.8
67.5°	10972.8	11010.3	11024.8	11278.4	10820.6	10068.2	9144.2	7258.9	6140.4	5606.6	7359.1
70°	10964.4	10953.5	11209.6	11927.0	12187.9	11625.0	10612.9	8200.9	6784.2	5961.7	7424.3
72.5°	9980.0	9893.1	10498.2	11919.7	13325.6	13250.7	12406.5	9416.0	7339.8	6005.2	6442.4
75°	7487.1	7255.2	8324.1	10742.1	13515.2	14173.5	13546.6	10169.6	7208.1	5305.8	4483.3
77.5°	3201.9	2968.8	4228.5	7952.1	12096.1	13249.5	12500.7	8872.5	5753.9	3508.6	2201.8
80°	838.2	837.0	1277.8	3605.3	8226.3	9784.4	8583.8	5729.8	3287.6	1253.7	607.5
82.5°	346.6	338.2	469.8	1402.3	4019.5	5490.6	4480.9	2555.7	1187.3	339.4	201.7
85°	129.2	128.0	228.3	484.3	1418.0	2264.6	1639.0	653.4	295.9	165.5	90.6
87.5°	36.2	35.0	49.5	167.9	345.4	524.2	280.2	107.5	83.3	65.2	26.6
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°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0
2.5°	2612.5	2618.5	2629.4	2637.8	2648.7	2660.8	2677.7	2688.6	2699.4	2706.7	2701.8
5°	2623.3	2636.6	2664.4	2692.2	2724.8	2755.0	2790.0	2815.4	2835.9	2841.9	2844.4
7.5°	2647.5	2669.2	2716.3	2763.4	2815.4	2864.9	2915.6	2959.1	2994.1	3007.4	3008.6
10°	2689.8	2718.7	2785.2	2851.6	2920.5	2996.5	3061.8	3124.6	3174.1	3194.6	3195.8
12.5°	2742.9	2779.1	2866.1	2957.9	3053.3	3158.4	3242.9	3320.2	3381.8	3409.6	3409.6
15°	2811.7	2858.9	2970.0	3093.2	3233.3	3379.4	3486.9	3572.7	3641.5	3675.3	3672.9
17.5°	2886.6	2949.4	3089.5	3275.5	3476.0	3668.1	3793.7	3856.5	3927.8	3960.4	3959.2
20°	2959.1	3036.4	3236.9	3507.4	3774.4	3978.5	4079.9	4096.8	4101.7	4105.3	4115.0
22.5°	3034.0	3137.9	3421.7	3799.7	4086.0	4227.3	4241.8	4169.3	4067.9	4020.8	4034.0
25°	3116.1	3253.8	3663.2	4122.2	4354.1	4371.0	4259.9	4083.6	3891.5	3803.4	3816.6
27.5°	3195.8	3387.9	3953.1	4430.2	4547.4	4398.8	4159.7	3909.6	3677.7	3584.7	3595.6
30°	3275.5	3541.3	4273.2	4699.5	4635.5	4329.9	4001.4	3722.4	3489.3	3391.5	3402.4
32.5°	3356.5	3720.0	4641.6	4894.0	4619.8	4183.8	3804.6	3512.3	3306.9	3204.3	3217.6
35°	3448.3	3939.8	4990.6	5000.3	4514.7	3968.8	3544.9	3261.0	3082.3	3000.2	3018.3
37.5°	3567.8	4218.8	5298.6	5026.8	4331.2	3653.6	3222.4	2963.9	2816.6	2779.1	2805.7
40°	3716.4	4554.6	5534.1	4984.6	4059.4	3270.7	2869.7	2663.2	2579.9	2588.3	2617.3
42.5°	3909.6	4930.2	5699.6	4875.9	3681.4	2875.8	2560.5	2468.7	2508.6	2542.4	2573.8
45°	4160.9	5320.3	5802.3	4691.1	3253.8	2541.2	2378.2	2399.9	2430.1	2433.7	2457.9
47.5°	4482.1	5715.3	5869.9	4412.1	2817.8	2305.7	2262.2	2267.0	2261.0	2235.6	2255.0
50°	4883.1	6099.4	5930.3	4042.5	2447.0	2158.3	2100.4	2083.4	2000.1	1918.0	1928.9
52.5°	5339.7	6452.0	5955.6	3583.5	2158.3	2035.1	1940.9	1834.6	1678.8	1653.5	1661.9
55°	5846.9	6778.2	5890.4	3019.5	1915.6	1876.9	1734.4	1606.4	1589.5	1567.7	1571.3
57.5°	6453.3	7129.6	5757.6	2390.2	1666.8	1692.1	1553.2	1567.7	1537.5	1503.7	1497.7
60°	7116.3	7493.2	5524.5	1816.5	1409.5	1461.4	1506.1	1504.9	1496.5	1468.7	1459.0
62.5°	7713.0	7732.3	5065.5	1391.4	1183.6	1282.7	1404.7	1403.5	1396.2	1380.5	1374.5
65°	8068.1	7696.1	4299.8	1095.5	997.6	1135.3	1267.0	1276.6	1277.8	1276.6	1276.6
67.5°	8005.3	7272.1	3249.0	872.0	844.2	985.6	1130.5	1143.8	1153.4	1155.9	1158.3
70°	7295.1	6340.9	2118.5	695.7	707.8	853.9	1001.3	1014.5	1023.0	1032.7	1037.5
72.5°	5686.3	4662.1	1212.6	562.8	588.2	740.4	873.2	888.9	893.8	911.9	919.1
75°	3465.2	2741.7	654.6	443.3	483.1	632.9	746.4	764.5	773.0	794.7	797.1
77.5°	1647.4	1187.3	373.2	345.4	388.9	516.9	630.5	651.0	628.1	640.1	630.5
80°	556.8	440.8	235.5	263.3	297.1	403.4	504.9	525.4	477.1	474.7	469.8
82.5°	194.5	178.8	149.8	175.1	192.0	288.7	381.7	408.2	355.1	353.9	337.0
85°	76.1	72.5	83.3	95.4	114.7	177.5	251.2	264.5	218.6	176.3	173.9
87.5°	15.7	16.9	20.5	21.7	35.0	61.6	90.6	111.1	88.2	74.9	68.8
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)