

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: P883244

Luminaire Tested: **NAV-SB3C-730-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883244  
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-SB3C-730-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

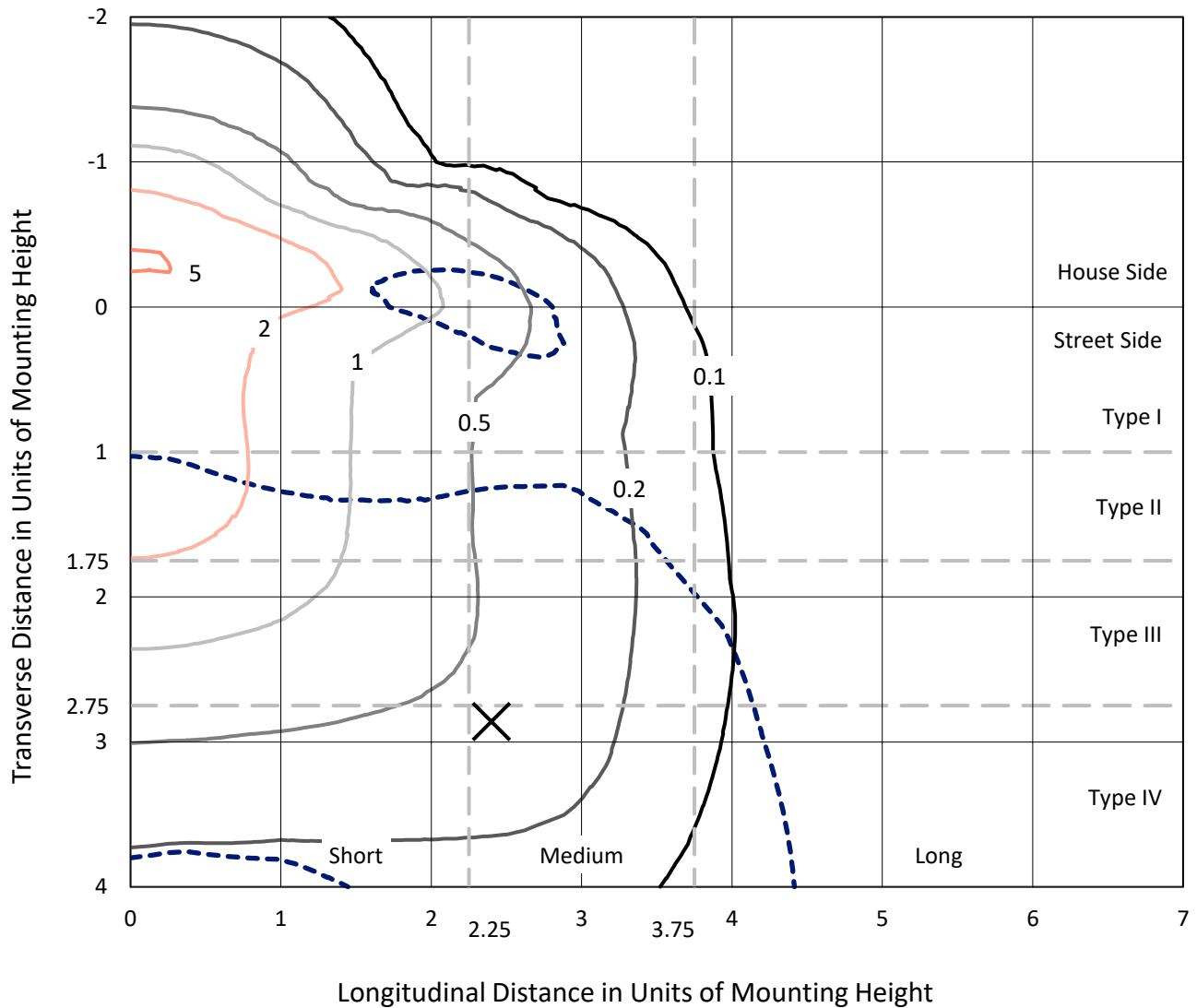
Lumens per Lamp: N/A  
Luminaire Lumens: 21919 lumens  
Efficiency: N/A  
Efficacy: 147.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P883244  
 CATALOG NUMBER: NAV-SB3C-730-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

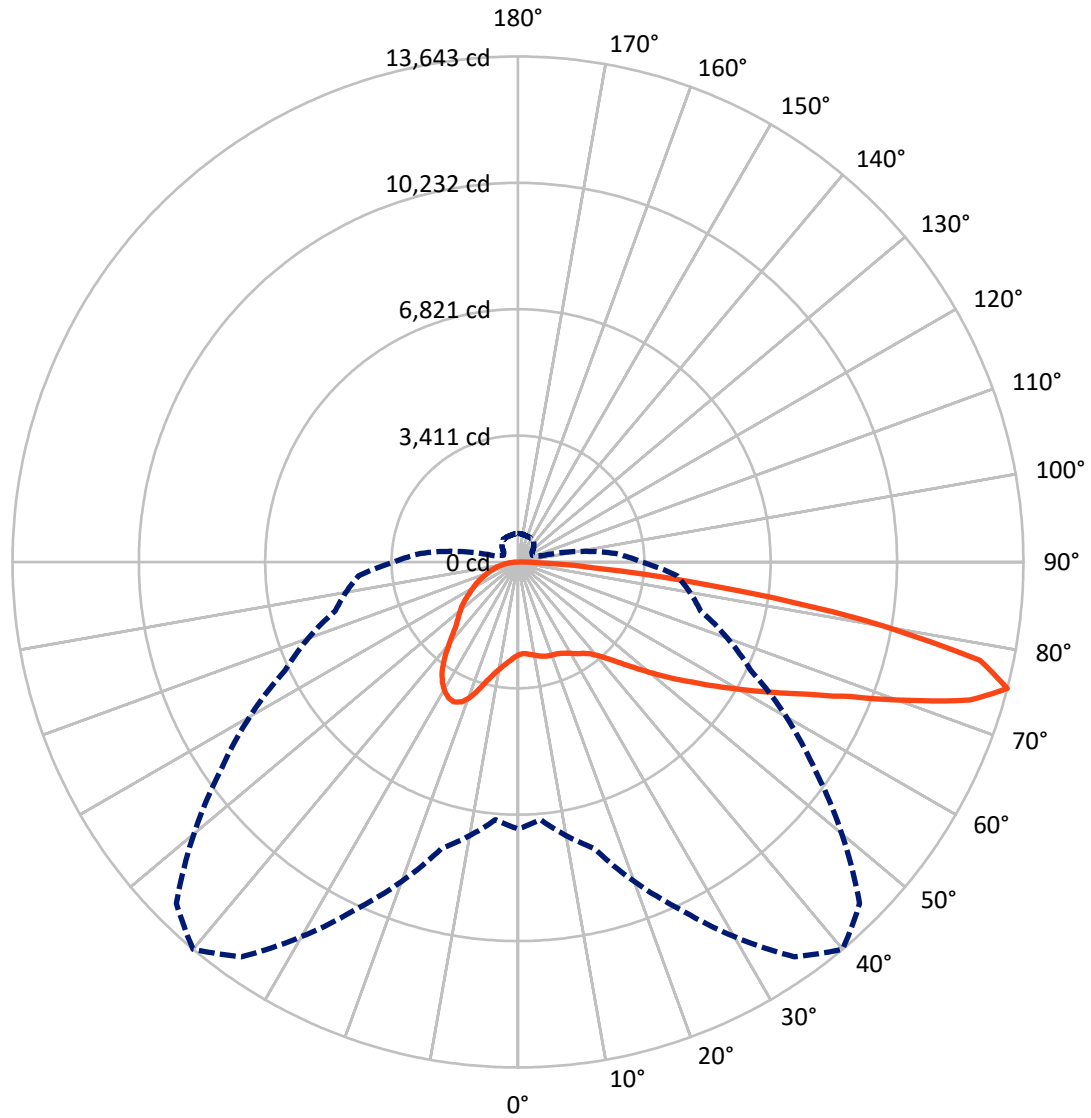
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P883244  
CATALOG NUMBER: NAV-SB3C-730-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P883244

CATALOG NUMBER: NAV-SB3C-730-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6791.2	0.0	6791.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	15127.8	0.0	15127.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	21919.0	0.0	21919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.2	1.1
10°-20°	840.0	3.8
20°-30°	1533.8	7.0
30°-40°	2175.3	9.9
40°-50°	2937.4	13.4
50°-60°	3951.5	18.0
60°-70°	5015.4	22.9
70°-80°	4551.8	20.8
80°-90°	663.5	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°	21919.0	100.0
0°-180°	21919.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P883244

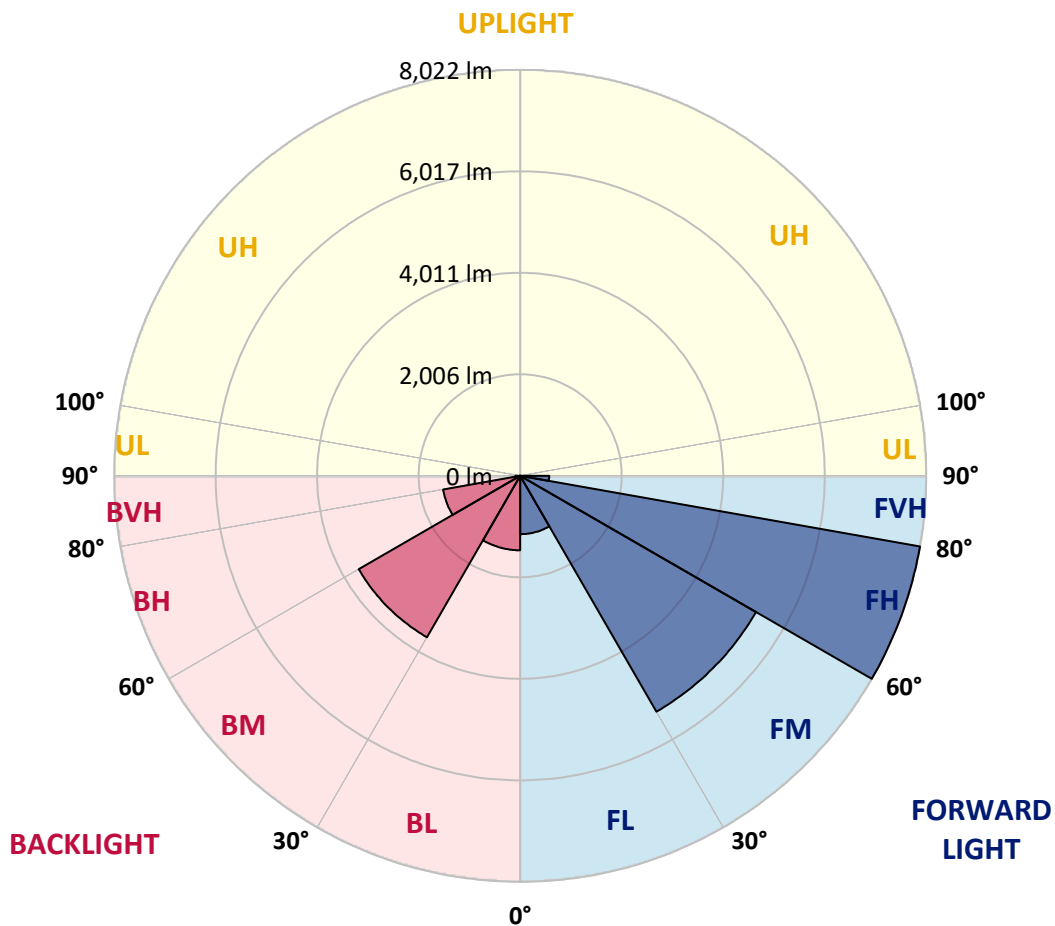
CATALOG NUMBER: NAV-SB3C-730-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1153.0	5.3			
FM (30°-60°)	5380.6	24.5			
FH (60°-80°)	8022.0	36.6			G4/12000
FVH (80°-90°)	572.2	2.6			G4/750
BL (0°-30°)	1471.0	6.7	B3/2500		
BM (30°-60°)	3683.6	16.8	B3/5000		
BH (60°-80°)	1545.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	91.4	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



REPORT NUMBER: P883244

CATALOG NUMBER: NAV-SB3C-730-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5
2.5°	2468.1	2482.1	2478.6	2473.9	2473.9	2475.1	2473.9	2482.1	2490.2	2498.3	2511.1
5°	2493.7	2507.6	2500.7	2494.8	2490.2	2489.0	2485.5	2484.4	2489.0	2499.5	2516.9
7.5°	2543.7	2557.6	2547.2	2536.7	2527.4	2522.7	2518.1	2511.1	2507.6	2513.4	2537.9
10°	2599.5	2613.4	2600.6	2582.0	2566.9	2561.1	2556.5	2549.5	2544.8	2548.3	2575.1
12.5°	2655.3	2669.2	2651.8	2626.2	2606.4	2603.0	2597.1	2594.8	2593.7	2592.5	2619.2
15°	2707.6	2719.2	2697.1	2666.9	2646.0	2640.2	2634.3	2637.8	2643.6	2650.6	2680.8
17.5°	2748.3	2759.9	2727.4	2687.8	2668.1	2665.7	2662.2	2673.9	2690.2	2707.6	2744.8
20°	2785.5	2797.1	2755.3	2701.8	2678.5	2678.5	2679.7	2704.1	2727.4	2752.9	2804.1
22.5°	2837.8	2847.1	2795.9	2722.7	2689.0	2691.3	2700.6	2725.0	2754.1	2789.0	2859.9
25°	2915.7	2922.7	2859.9	2762.2	2723.9	2730.8	2739.0	2750.6	2778.5	2819.2	2914.5
27.5°	3041.2	3047.1	2964.5	2832.0	2773.9	2785.5	2797.1	2789.0	2801.8	2836.6	2958.7
30°	3218.0	3221.4	3116.8	2941.3	2858.7	2864.5	2866.9	2833.1	2808.7	2836.6	2990.1
32.5°	3427.2	3426.0	3301.7	3073.8	2955.2	2949.4	2929.6	2863.4	2806.4	2830.8	3018.0
35°	3751.6	3738.8	3578.3	3259.8	3064.5	3028.5	2982.0	2897.1	2818.0	2825.0	3042.4
37.5°	4288.7	4249.1	4027.1	3564.4	3227.3	3135.4	3066.8	2951.7	2843.6	2822.7	3071.5
40°	4894.4	4844.4	4600.2	3981.7	3471.4	3323.7	3213.3	3029.6	2885.5	2833.1	3114.5
42.5°	5612.8	5541.9	5279.2	4473.5	3780.6	3566.7	3400.5	3128.4	2947.1	2866.9	3172.6
45°	6495.2	6401.0	6029.0	5028.0	4170.1	3885.3	3663.2	3278.4	3041.2	2932.0	3259.8
47.5°	7386.9	7410.1	6881.2	5662.8	4637.4	4278.2	3992.2	3503.9	3178.4	3036.6	3400.5
50°	8334.4	8350.6	7728.7	6366.1	5167.6	4722.3	4361.9	3756.2	3369.1	3185.4	3610.9
52.5°	9073.7	9076.1	8498.3	7102.0	5719.8	5210.6	4760.7	4044.5	3590.0	3383.0	3891.1
55°	9536.4	9530.6	9037.7	7798.4	6354.5	5723.3	5202.4	4372.4	3859.7	3615.5	4243.3
57.5°	9872.4	9855.0	9409.7	8397.1	7031.1	6328.9	5702.3	4744.4	4178.2	3892.2	4707.2
60°	10000.3	9989.8	9662.0	8914.5	7742.6	6998.6	6279.0	5160.6	4539.8	4218.9	5303.6
62.5°	10049.1	10068.9	9909.6	9415.5	8504.1	7740.3	6912.5	5658.2	4946.7	4588.6	5932.5
65°	10221.2	10257.2	10224.7	10071.2	9364.4	8608.7	7753.1	6249.9	5390.8	4985.0	6589.4
67.5°	10561.8	10597.8	10611.8	10855.9	10415.3	9691.1	8801.7	6987.0	5910.4	5396.6	7083.4
70°	10553.7	10543.2	10789.7	11480.2	11731.3	11189.6	10215.4	7893.7	6530.1	5738.4	7146.2
72.5°	9606.2	9522.5	10104.9	11473.2	12826.5	12754.4	11941.8	9063.3	7064.8	5780.2	6201.1
75°	7206.7	6983.5	8012.3	10339.8	13009.0	13642.6	13039.2	9788.7	6938.1	5107.1	4315.4
77.5°	3081.9	2857.6	4070.1	7654.3	11643.0	12753.2	12032.4	8540.1	5538.4	3377.2	2119.3
80°	806.8	805.7	1230.0	3470.2	7918.2	9417.9	8262.3	5515.2	3164.5	1206.7	584.8
82.5°	333.7	325.5	452.2	1349.7	3869.0	5285.0	4313.1	2460.0	1142.8	326.7	194.1
85°	124.4	123.2	219.7	466.2	1364.8	2179.8	1577.6	628.9	284.8	159.3	87.2
87.5°	34.9	33.7	47.7	161.6	332.5	504.5	269.7	103.5	80.2	62.8	25.6
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: P883244

CATALOG NUMBER: NAV-SB3C-730-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5
2.5°	2514.6	2520.4	2530.9	2539.0	2549.5	2561.1	2577.4	2587.8	2598.3	2605.3	2600.6
5°	2525.1	2537.9	2564.6	2591.3	2622.7	2651.8	2685.5	2709.9	2729.7	2735.5	2737.8
7.5°	2548.3	2569.2	2614.6	2659.9	2709.9	2757.6	2806.4	2848.3	2882.0	2894.8	2895.9
10°	2589.0	2616.9	2680.8	2744.8	2811.1	2884.3	2947.1	3007.5	3055.2	3075.0	3076.1
12.5°	2640.2	2675.0	2758.7	2847.1	2938.9	3040.1	3121.5	3195.9	3255.2	3281.9	3281.9
15°	2706.4	2751.8	2858.7	2977.3	3112.2	3252.8	3356.3	3438.8	3505.1	3537.7	3535.3
17.5°	2778.5	2839.0	2973.8	3152.8	3345.8	3530.7	3651.6	3712.0	3780.6	3812.0	3810.9
20°	2848.3	2922.7	3115.6	3376.1	3633.0	3829.5	3927.1	3943.4	3948.0	3951.5	3960.8
22.5°	2920.3	3020.3	3293.5	3657.4	3932.9	4068.9	4082.9	4013.1	3915.5	3870.1	3882.9
25°	2999.4	3131.9	3526.0	3967.8	4191.0	4207.3	4100.3	3930.6	3745.7	3660.9	3673.7
27.5°	3076.1	3261.0	3805.0	4264.2	4377.0	4234.0	4003.8	3763.2	3540.0	3450.5	3460.9
30°	3152.8	3408.6	4113.1	4523.5	4461.9	4167.8	3851.5	3583.0	3358.6	3264.5	3274.9
32.5°	3230.7	3580.7	4467.7	4710.7	4446.8	4027.1	3662.0	3380.7	3183.1	3084.3	3097.0
35°	3319.1	3792.3	4803.7	4813.0	4345.6	3820.2	3412.1	3138.9	2966.8	2887.8	2905.2
37.5°	3434.2	4060.8	5100.1	4838.6	4168.9	3516.7	3101.7	2852.9	2711.1	2675.0	2700.6
40°	3577.2	4384.0	5326.8	4797.9	3907.3	3148.2	2762.2	2563.4	2483.2	2491.4	2519.3
42.5°	3763.2	4745.5	5486.1	4693.2	3543.5	2768.0	2464.6	2376.3	2414.6	2447.2	2477.4
45°	4005.0	5121.1	5584.9	4515.4	3131.9	2446.0	2289.1	2310.0	2339.1	2342.5	2365.8
47.5°	4314.2	5501.2	5650.0	4246.8	2712.2	2219.3	2177.5	2182.1	2176.3	2151.9	2170.5
50°	4700.2	5870.9	5708.1	3891.1	2355.3	2077.5	2021.7	2005.4	1925.2	1846.1	1856.6
52.5°	5139.7	6210.4	5732.6	3449.3	2077.5	1958.9	1868.2	1765.9	1616.0	1591.5	1599.7
55°	5627.9	6524.3	5669.8	2906.4	1843.8	1806.6	1669.4	1546.2	1529.9	1509.0	1512.5
57.5°	6211.5	6862.6	5541.9	2300.7	1604.3	1628.7	1495.0	1509.0	1479.9	1447.4	1441.6
60°	6849.8	7212.5	5317.5	1748.5	1356.7	1406.7	1449.7	1448.5	1440.4	1413.7	1404.4
62.5°	7424.1	7442.7	4875.8	1339.3	1139.3	1234.6	1352.1	1350.9	1343.9	1328.8	1323.0
65°	7765.9	7407.8	4138.7	1054.4	960.3	1092.8	1219.5	1228.8	1230.0	1228.8	1228.8
67.5°	7705.4	6999.7	3127.3	839.4	812.6	948.6	1088.2	1100.9	1110.2	1112.6	1114.9
70°	7021.8	6103.4	2039.1	669.6	681.3	821.9	963.8	976.5	984.7	994.0	998.6
72.5°	5473.3	4487.5	1167.2	541.8	566.2	712.6	840.5	855.6	860.3	877.7	884.7
75°	3335.4	2639.0	630.1	426.7	465.0	609.2	718.5	735.9	744.0	765.0	767.3
77.5°	1585.7	1142.8	359.2	332.5	374.3	497.6	606.9	626.6	604.5	616.2	606.9
80°	535.9	424.3	226.7	253.4	286.0	388.3	485.9	505.7	459.2	456.9	452.2
82.5°	187.2	172.1	144.2	168.6	184.8	277.9	367.4	392.9	341.8	340.6	324.4
85°	73.2	69.8	80.2	91.8	110.4	170.9	241.8	254.6	210.4	169.7	167.4
87.5°	15.1	16.3	19.8	20.9	33.7	59.3	87.2	107.0	84.9	72.1	66.3
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)