

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: P884924

Luminaire Tested: **NAV-SB6A-722-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884924
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-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 21507 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

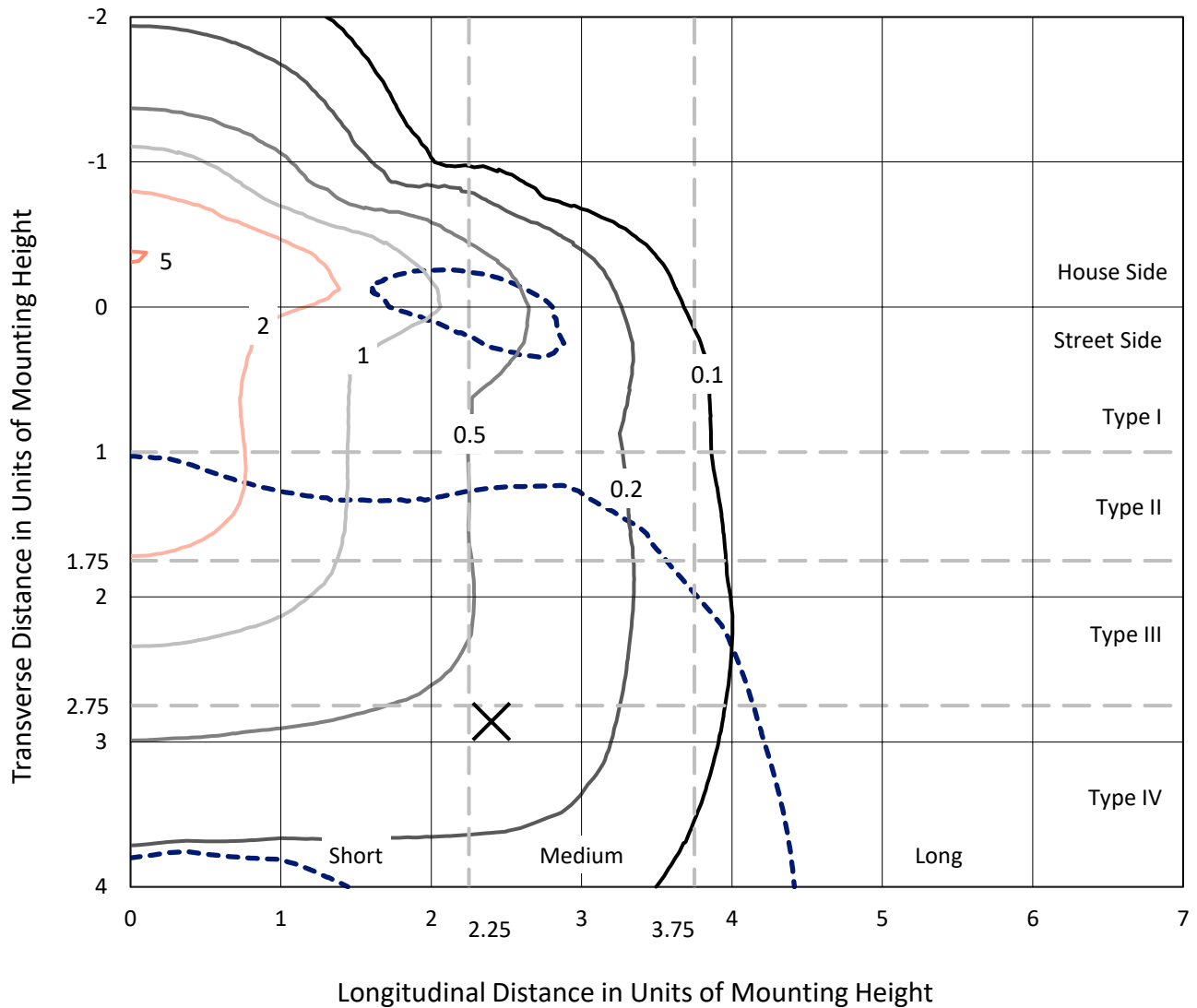
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884924
 CATALOG NUMBER: NAV-SB6A-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

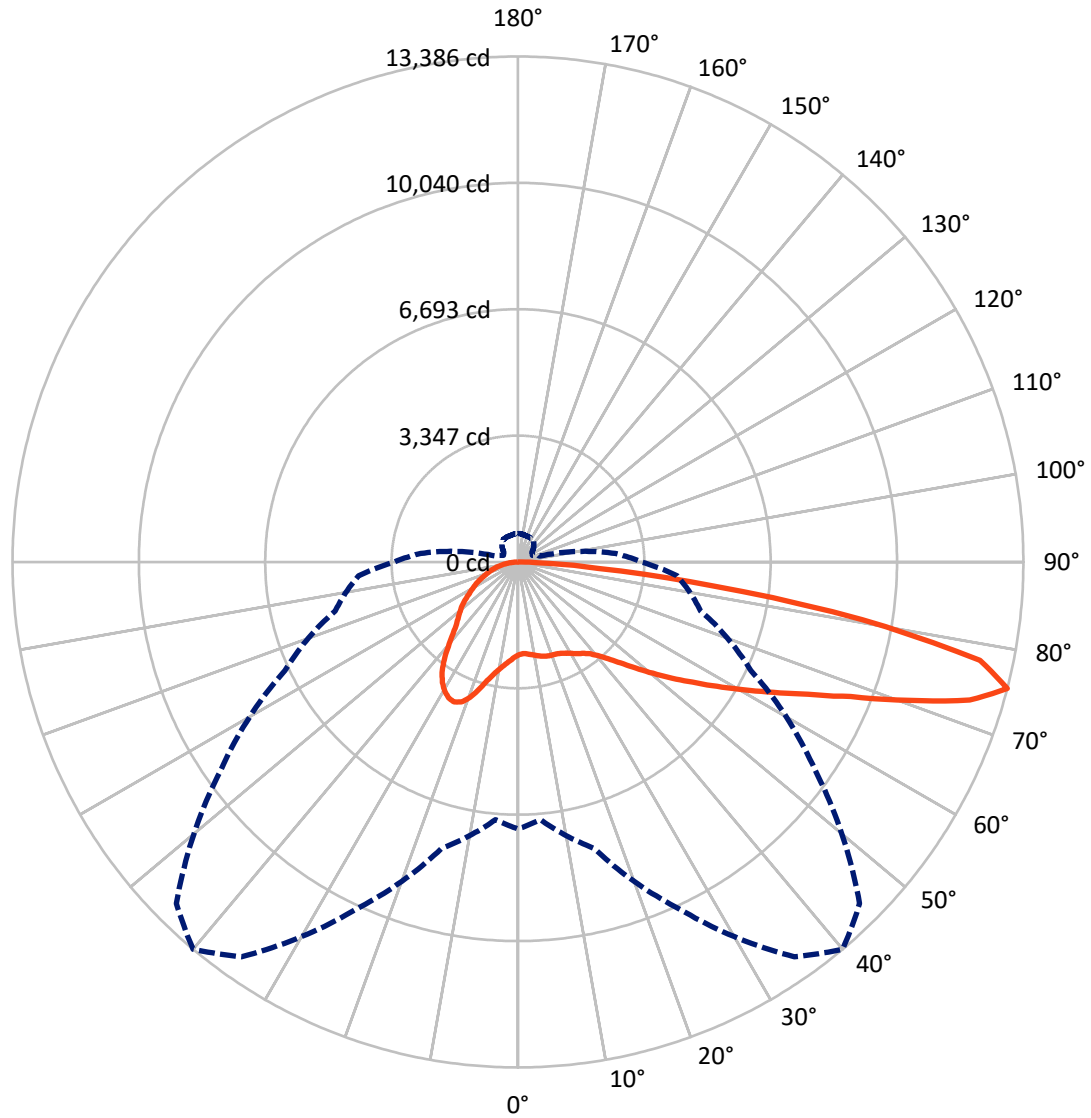
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P884924
CATALOG NUMBER: NAV-SB6A-722-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P884924

CATALOG NUMBER: NAV-SB6A-722-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6663.6	0.0	6663.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14843.4	0.0	14843.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	21507.0	0.0	21507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	1.1
10°-20°	824.2	3.8
20°-30°	1505.0	7.0
30°-40°	2134.5	9.9
40°-50°	2882.2	13.4
50°-60°	3877.3	18.0
60°-70°	4921.1	22.9
70°-80°	4466.2	20.8
80°-90°	651.0	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°	21507.0	100.0
0°-180°	21507.0	100.0

Coefficient of Utilization



REPORT NUMBER: P884924

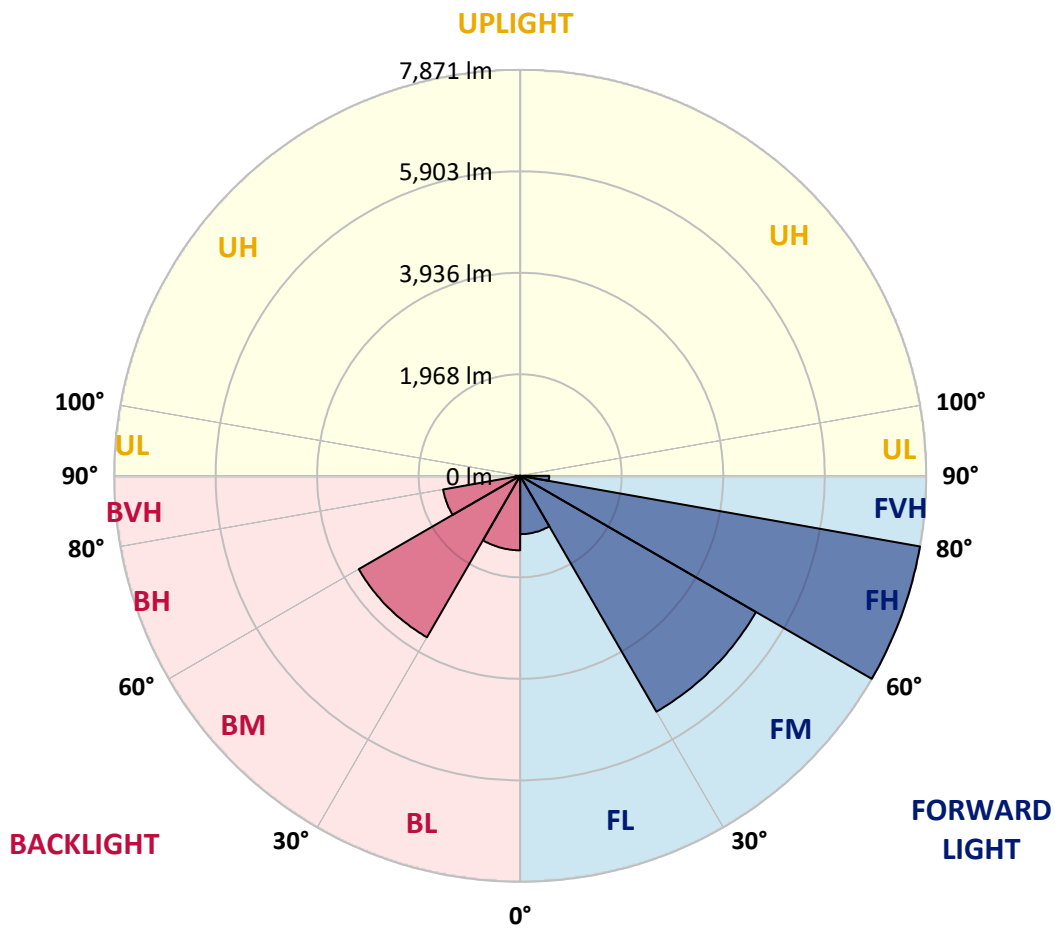
CATALOG NUMBER: NAV-SB6A-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.3	5.3			
FM (30°-60°)	5279.5	24.5			
FH (60°-80°)	7871.2	36.6			G4/12000
FVH (80°-90°)	561.4	2.6			G4/750
BL (0°-30°)	1443.4	6.7	B3/2500		
BM (30°-60°)	3614.4	16.8	B3/5000		
BH (60°-80°)	1516.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	89.6	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: P884924

CATALOG NUMBER: NAV-SB6A-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4
2.5°	2421.7	2435.4	2432.0	2427.4	2427.4	2428.6	2427.4	2435.4	2443.4	2451.4	2463.9
5°	2446.8	2460.5	2453.7	2447.9	2443.4	2442.2	2438.8	2437.7	2442.2	2452.5	2469.6
7.5°	2495.9	2509.5	2499.3	2489.0	2479.9	2475.3	2470.8	2463.9	2460.5	2466.2	2490.2
10°	2550.6	2564.3	2551.8	2533.5	2518.7	2513.0	2508.4	2501.6	2497.0	2500.4	2526.7
12.5°	2605.4	2619.1	2601.9	2576.8	2557.5	2554.0	2548.3	2546.0	2544.9	2543.8	2570.0
15°	2656.7	2668.1	2646.4	2616.8	2596.2	2590.5	2584.8	2588.3	2594.0	2600.8	2630.5
17.5°	2696.6	2708.0	2676.1	2637.3	2617.9	2615.6	2612.2	2623.6	2639.6	2656.7	2693.2
20°	2733.1	2744.5	2703.5	2651.0	2628.2	2628.2	2629.3	2653.3	2676.1	2701.2	2751.4
22.5°	2784.5	2793.6	2743.4	2671.5	2638.4	2640.7	2649.9	2673.8	2702.3	2736.5	2806.1
25°	2860.9	2867.7	2806.1	2710.3	2672.7	2679.5	2687.5	2698.9	2726.3	2766.2	2859.7
27.5°	2984.1	2989.8	2908.8	2778.8	2721.7	2733.1	2744.5	2736.5	2749.1	2783.3	2903.1
30°	3157.5	3160.9	3058.2	2886.0	2805.0	2810.7	2813.0	2779.9	2755.9	2783.3	2933.9
32.5°	3362.8	3361.6	3239.6	3016.0	2899.7	2894.0	2874.6	2809.5	2753.7	2777.6	2961.3
35°	3681.0	3668.5	3511.1	3198.5	3006.9	2971.5	2925.9	2842.6	2765.1	2771.9	2985.2
37.5°	4208.1	4169.3	3951.4	3497.4	3166.6	3076.5	3009.2	2896.2	2790.2	2769.6	3013.7
40°	4802.4	4753.3	4513.8	3906.9	3406.1	3261.3	3152.9	2972.7	2831.2	2779.9	3055.9
42.5°	5507.3	5437.7	5179.9	4389.4	3709.6	3499.7	3336.6	3069.6	2891.7	2813.0	3113.0
45°	6373.1	6280.7	5915.7	4933.5	4091.7	3812.2	3594.4	3216.8	2984.1	2876.9	3198.5
47.5°	7248.0	7270.8	6751.8	5556.4	4550.3	4197.8	3917.2	3438.1	3118.7	2979.5	3336.6
50°	8177.7	8193.7	7583.4	6246.5	5070.4	4633.5	4279.9	3685.6	3305.8	3125.5	3543.0
52.5°	8903.2	8905.5	8338.5	6968.6	5612.3	5112.6	4671.2	3968.5	3522.5	3319.4	3817.9
55°	9357.2	9351.5	8867.8	7651.8	6235.1	5615.7	5104.6	4290.2	3787.1	3547.6	4163.6
57.5°	9686.8	9669.7	9232.8	8239.3	6899.0	6210.0	5595.1	4655.2	4099.7	3819.1	4618.7
60°	9812.3	9802.1	9480.4	8746.9	7597.1	6867.0	6160.9	5063.6	4454.4	4139.6	5203.9
62.5°	9860.2	9879.6	9723.3	9238.5	8344.2	7594.8	6782.6	5551.8	4853.7	4502.4	5821.0
65°	10029.1	10064.4	10032.5	9881.9	9188.4	8446.9	7607.3	6132.4	5289.4	4891.3	6465.5
67.5°	10363.3	10398.6	10412.3	10651.9	10219.6	9508.9	8636.3	6855.6	5799.3	5295.1	6950.3
70°	10355.3	10345.0	10586.9	11264.4	11510.8	10979.3	10023.4	7745.4	6407.3	5630.5	7011.9
72.5°	9425.6	9343.5	9915.0	11257.6	12585.4	12514.6	11717.3	8892.9	6932.0	5671.6	6084.5
75°	7071.2	6852.2	7861.7	10145.4	12764.5	13386.1	12794.1	9604.7	6807.7	5011.1	4234.3
77.5°	3024.0	2803.8	3993.6	7510.4	11424.1	12513.5	11806.3	8379.6	5434.3	3313.7	2079.5
80°	791.6	790.5	1206.9	3405.0	7769.3	9240.8	8107.0	5411.5	3105.0	1184.0	573.8
82.5°	327.4	319.4	443.7	1324.4	3796.3	5185.6	4232.0	2413.7	1121.3	320.5	190.5
85°	122.1	120.9	215.6	457.4	1339.2	2138.8	1547.9	617.1	279.5	156.3	85.6
87.5°	34.2	33.1	46.8	158.6	326.2	495.1	264.6	101.5	78.7	61.6	25.1
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: P884924

CATALOG NUMBER: NAV-SB6A-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4	2459.4
2.5°	2467.3	2473.0	2483.3	2491.3	2501.6	2513.0	2528.9	2539.2	2549.5	2556.3	2551.8
5°	2477.6	2490.2	2516.4	2542.6	2573.4	2601.9	2635.0	2659.0	2678.4	2684.1	2686.4
7.5°	2500.4	2521.0	2565.4	2609.9	2659.0	2705.7	2753.7	2794.7	2827.8	2840.3	2841.5
10°	2540.3	2567.7	2630.5	2693.2	2758.2	2830.1	2891.7	2951.0	2997.8	3017.2	3018.3
12.5°	2590.5	2624.8	2706.9	2793.6	2883.7	2982.9	3062.8	3135.8	3194.0	3220.2	3220.2
15°	2655.6	2700.0	2805.0	2921.3	3053.7	3191.7	3293.2	3374.2	3439.2	3471.2	3468.9
17.5°	2726.3	2785.6	2917.9	3093.6	3282.9	3464.3	3582.9	3642.3	3709.6	3740.4	3739.2
20°	2794.7	2867.7	3057.1	3312.6	3564.7	3757.5	3853.3	3869.3	3873.8	3877.2	3886.4
22.5°	2865.4	2963.5	3231.6	3588.6	3859.0	3992.5	4006.1	3937.7	3841.9	3797.4	3809.9
25°	2943.0	3073.1	3459.8	3893.2	4112.2	4128.2	4023.3	3856.7	3675.3	3592.1	3604.6
27.5°	3018.3	3199.7	3733.5	4184.1	4294.7	4154.4	3928.6	3692.5	3473.4	3385.6	3395.9
30°	3093.6	3344.5	4035.8	4438.5	4378.0	4089.4	3779.1	3515.6	3295.5	3203.1	3213.4
32.5°	3170.0	3513.4	4383.7	4622.1	4363.2	3951.4	3593.2	3317.2	3123.2	3026.3	3038.8
35°	3256.7	3721.0	4713.4	4722.5	4263.9	3748.3	3348.0	3079.9	2911.1	2833.5	2850.6
37.5°	3369.6	3984.5	5004.3	4747.6	4090.6	3450.6	3043.4	2799.3	2660.1	2624.8	2649.9
40°	3509.9	4301.6	5226.7	4707.7	3833.9	3089.0	2710.3	2515.2	2436.5	2444.5	2471.9
42.5°	3692.5	4656.3	5383.0	4605.0	3476.9	2716.0	2418.3	2331.6	2369.2	2401.2	2430.8
45°	3929.7	5024.8	5479.9	4430.5	3073.1	2400.0	2246.0	2266.6	2295.1	2298.5	2321.3
47.5°	4233.1	5397.8	5543.8	4167.0	2661.3	2177.6	2136.5	2141.1	2135.4	2111.4	2129.7
50°	4611.9	5760.5	5600.8	3817.9	2311.1	2038.4	1983.7	1967.7	1889.0	1811.4	1821.7
52.5°	5043.0	6093.6	5624.8	3384.5	2038.4	1922.1	1833.1	1732.7	1585.6	1561.6	1569.6
55°	5522.1	6401.6	5563.2	2851.8	1809.2	1772.7	1638.0	1517.1	1501.2	1480.6	1484.1
57.5°	6094.8	6733.6	5437.7	2257.4	1574.2	1598.1	1466.9	1480.6	1452.1	1420.2	1414.5
60°	6721.0	7076.9	5217.6	1715.6	1331.2	1380.2	1422.5	1421.3	1413.3	1387.1	1378.0
62.5°	7284.5	7302.8	4784.1	1314.1	1117.9	1211.4	1326.6	1325.5	1318.7	1303.8	1298.1
65°	7619.9	7268.6	4060.9	1034.6	942.2	1072.3	1196.6	1205.7	1206.9	1205.7	1205.7
67.5°	7560.6	6868.2	3068.5	823.6	797.4	930.8	1067.7	1080.2	1089.4	1091.7	1093.9
70°	6889.8	5988.7	2000.8	657.0	668.5	806.5	945.6	958.2	966.2	975.3	979.9
72.5°	5370.4	4403.1	1145.3	531.6	555.5	699.3	824.7	839.6	844.1	861.2	868.1
75°	3272.7	2589.4	618.3	418.6	456.3	597.7	705.0	722.1	730.0	750.6	752.9
77.5°	1555.9	1121.3	352.5	326.2	367.3	488.2	595.4	614.8	593.2	604.6	595.4
80°	525.9	416.4	222.4	248.7	280.6	381.0	476.8	496.2	450.6	448.3	443.7
82.5°	183.7	168.8	141.4	165.4	181.4	272.6	360.5	385.6	335.4	334.2	318.3
85°	71.9	68.4	78.7	90.1	108.4	167.7	237.3	249.8	206.5	166.5	164.3
87.5°	14.8	16.0	19.4	20.5	33.1	58.2	85.6	104.9	83.3	70.7	65.0
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)