

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: P966576

Luminaire Tested: **NAV-SB4C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25192.4 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

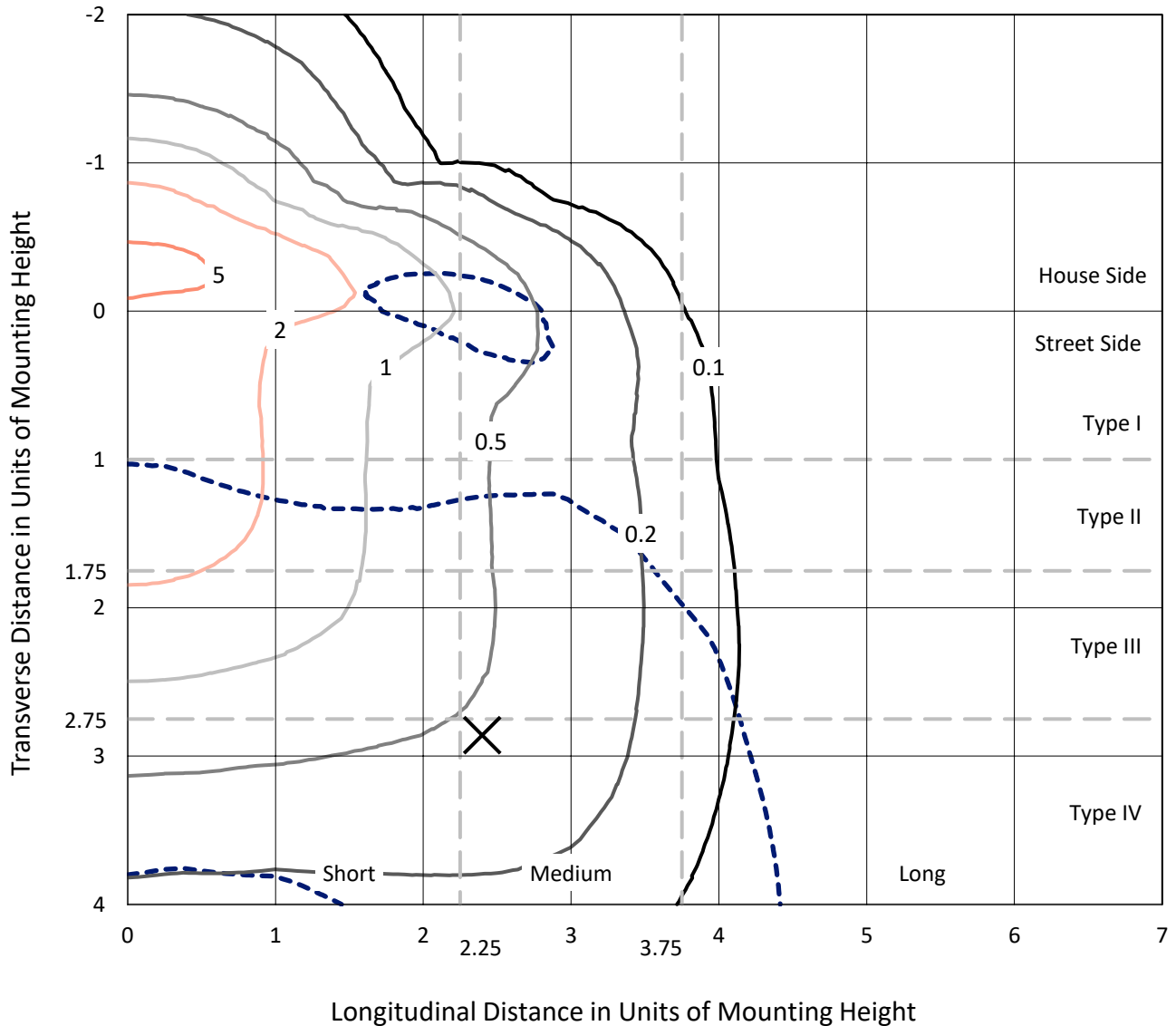
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

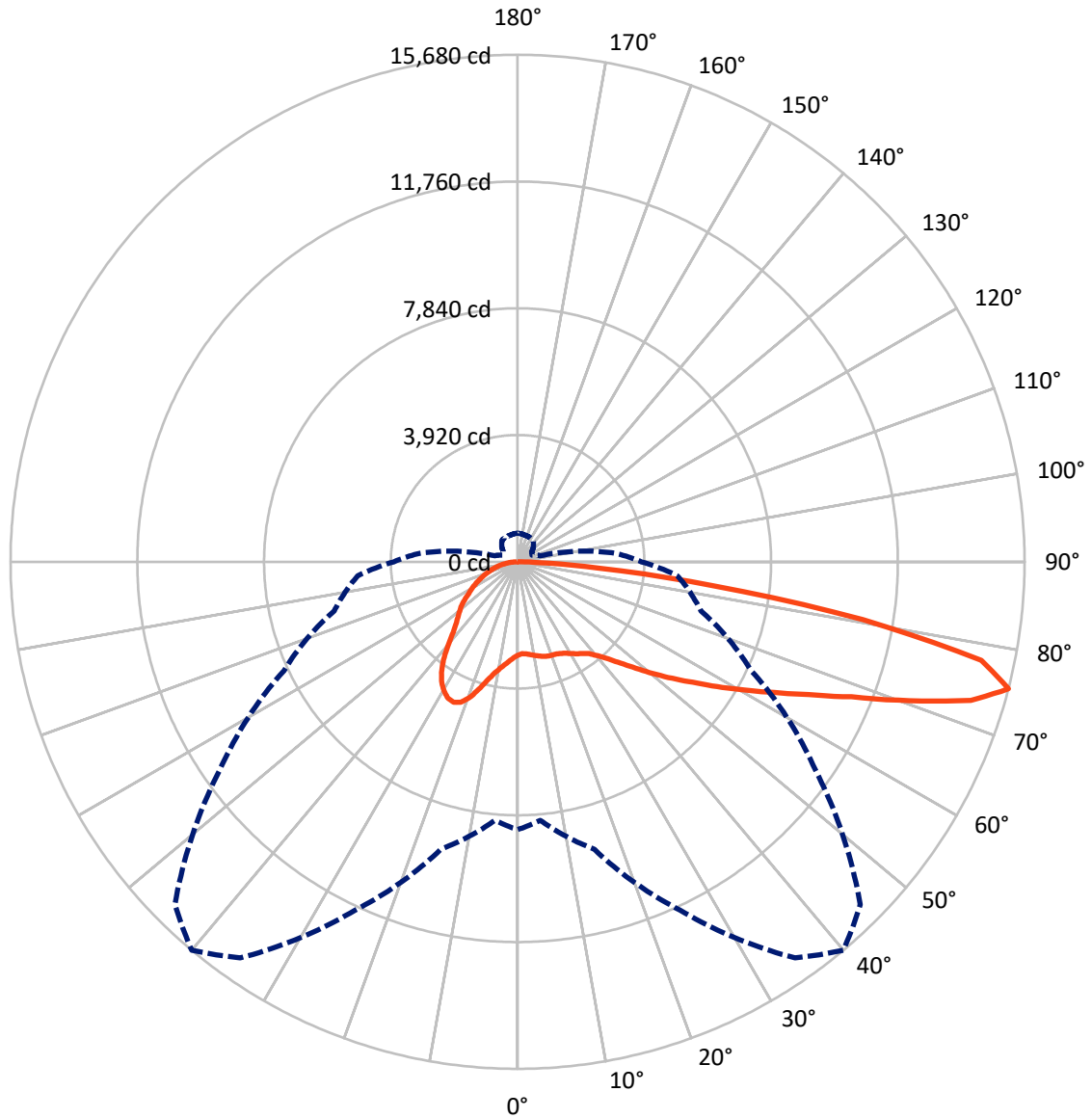
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	7805.5	0.0	7805.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17387.0	0.0	17387.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	25192.4	0.0	25192.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	1.1
10°-20°	965.5	3.8
20°-30°	1762.9	7.0
30°-40°	2500.2	9.9
40°-50°	3376.0	13.4
50°-60°	4541.7	18.0
60°-70°	5764.4	22.9
70°-80°	5231.6	20.8
80°-90°	762.6	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°	25192.4	100.0
0°-180°	25192.4	100.0

Coefficient of Utilization

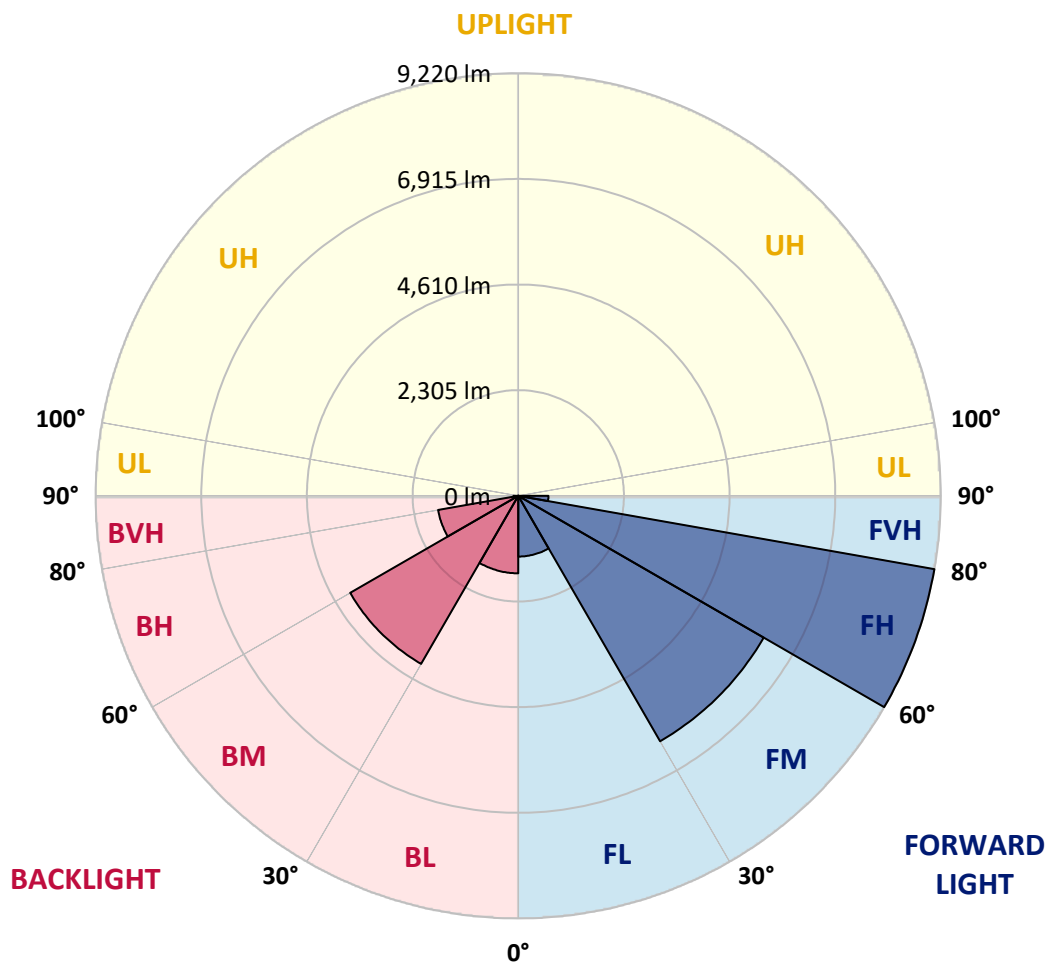


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.1	5.3			
FM (30°-60°)	6184.2	24.5			
FH (60°-80°)	9220.0	36.6			G4/12000
FVH (80°-90°)	657.6	2.6			G4/750
BL (0°-30°)	1690.7	6.7	B3/2500		
BM (30°-60°)	4233.8	16.8	B3/5000		
BH (60°-80°)	1776.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	105.0	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8
2.5°	2836.7	2852.8	2848.7	2843.4	2843.4	2844.7	2843.4	2852.8	2862.1	2871.4	2886.1
5°	2866.1	2882.1	2874.1	2867.4	2862.1	2860.8	2856.8	2855.4	2860.8	2872.8	2892.9
7.5°	2923.5	2939.6	2927.6	2915.5	2904.8	2899.5	2894.2	2886.1	2882.1	2888.8	2916.8
10°	2987.7	3003.8	2989.0	2967.7	2950.3	2943.6	2938.3	2930.3	2924.8	2928.9	2959.6
12.5°	3051.8	3067.8	3047.8	3018.4	2995.7	2991.7	2985.0	2982.3	2981.0	2979.7	3010.4
15°	3111.9	3125.3	3099.9	3065.2	3041.2	3034.4	3027.7	3031.7	3038.4	3046.5	3081.3
17.5°	3158.7	3172.1	3134.7	3089.2	3066.5	3063.8	3059.8	3073.2	3091.9	3111.9	3154.7
20°	3201.5	3214.8	3166.7	3105.2	3078.6	3078.6	3079.9	3107.9	3134.7	3164.1	3222.8
22.5°	3261.5	3272.3	3213.5	3129.3	3090.6	3093.2	3103.9	3132.0	3165.4	3205.5	3287.0
25°	3351.1	3359.1	3287.0	3174.7	3130.7	3138.7	3148.0	3161.4	3193.5	3240.2	3349.8
27.5°	3495.5	3502.1	3407.2	3254.9	3188.2	3201.5	3214.8	3205.5	3220.1	3260.2	3400.5
30°	3698.5	3702.5	3582.3	3380.6	3285.6	3292.3	3295.0	3256.2	3228.2	3260.2	3436.6
32.5°	3939.1	3937.7	3794.8	3532.9	3396.5	3389.9	3367.1	3291.0	3225.6	3253.6	3468.7
35°	4311.9	4297.1	4112.7	3746.6	3522.1	3480.7	3427.3	3329.7	3238.9	3246.9	3496.8
37.5°	4929.1	4883.7	4628.5	4096.7	3709.2	3603.7	3524.9	3392.5	3268.3	3244.2	3530.2
40°	5625.3	5567.8	5287.3	4576.4	3989.8	3820.1	3693.2	3482.0	3316.4	3256.2	3579.6
42.5°	6451.0	6369.6	6067.6	5141.6	4345.3	4099.4	3908.3	3595.6	3387.2	3295.0	3646.4
45°	7465.2	7356.9	6929.4	5779.0	4792.9	4465.5	4210.3	3768.0	3495.5	3369.8	3746.6
47.5°	8490.1	8516.7	7908.8	6508.5	5330.0	4917.1	4588.4	4027.2	3653.1	3490.1	3908.3
50°	9579.0	9597.7	8882.9	7316.9	5939.3	5427.6	5013.3	4317.2	3872.2	3661.1	4150.1
52.5°	10428.9	10431.5	9767.4	8162.7	6573.9	5988.8	5471.7	4648.6	4126.1	3888.2	4472.2
55°	10960.6	10954.0	10387.5	8963.0	7303.5	6577.9	5979.3	5025.4	4436.1	4155.5	4877.1
57.5°	11346.7	11326.8	10815.0	9651.2	8081.2	7274.1	6554.0	5452.9	4802.2	4473.5	5410.2
60°	11493.7	11481.7	11105.0	10245.8	8898.9	8043.8	7216.7	5931.3	5217.8	4849.0	6095.7
62.5°	11549.9	11572.6	11389.5	10821.6	9774.1	8896.3	7944.9	6503.1	5685.4	5273.8	6818.5
65°	11747.6	11789.0	11751.6	11575.2	10762.9	9894.3	8910.9	7183.3	6195.8	5729.5	7573.4
67.5°	12139.2	12180.6	12196.6	12477.2	11970.8	11138.4	10116.1	8030.4	6793.1	6202.5	8141.3
70°	12129.7	12117.8	12401.1	13194.7	13483.4	12860.7	11741.0	9072.6	7505.3	6595.4	8213.4
72.5°	11040.8	10944.6	11614.1	13186.7	14742.0	14659.1	13725.2	10416.8	8119.9	6643.4	7127.1
75°	8282.9	8026.4	9208.9	11884.0	14951.8	15680.0	14986.5	11250.6	7974.3	5869.8	4959.9
77.5°	3542.2	3284.3	4677.9	8797.4	13381.8	14657.8	13829.4	9815.5	6365.6	3881.6	2435.8
80°	927.3	926.0	1413.7	3988.5	9100.7	10824.3	9496.2	6338.8	3637.1	1386.9	672.1
82.5°	383.5	374.1	519.8	1551.3	4446.8	6074.3	4957.2	2827.4	1313.4	375.5	223.1
85°	143.0	141.7	252.6	535.8	1568.7	2505.3	1813.2	722.8	327.4	183.1	100.2
87.5°	40.1	38.7	54.7	185.7	382.1	579.9	310.0	118.9	92.1	72.2	29.4
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°	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8	2880.8
2.5°	2890.2	2896.9	2908.8	2918.2	2930.3	2943.6	2962.2	2974.3	2986.3	2994.3	2989.0
5°	2902.2	2916.8	2947.6	2978.3	3014.4	3047.8	3086.6	3114.7	3137.3	3144.0	3146.6
7.5°	2928.9	2952.9	3005.1	3057.2	3114.7	3169.4	3225.6	3273.6	3312.4	3327.0	3328.4
10°	2975.7	3007.8	3081.3	3154.7	3230.9	3315.1	3387.2	3456.7	3511.4	3534.2	3535.5
12.5°	3034.4	3074.5	3170.7	3272.3	3377.9	3494.1	3587.6	3673.2	3741.2	3772.0	3772.0
15°	3110.6	3162.7	3285.6	3422.0	3576.9	3738.6	3857.5	3952.4	4028.6	4066.0	4063.3
17.5°	3193.5	3263.0	3418.0	3623.7	3845.5	4058.0	4197.0	4266.4	4345.3	4381.4	4379.9
20°	3273.6	3359.1	3580.9	3880.2	4175.5	4401.3	4513.6	4532.3	4537.7	4541.7	4552.3
22.5°	3356.5	3471.4	3785.4	4203.6	4520.2	4676.6	4692.7	4612.5	4500.3	4448.1	4462.8
25°	3447.3	3599.7	4052.6	4560.3	4816.9	4835.6	4712.6	4517.6	4305.1	4207.6	4222.3
27.5°	3535.5	3748.0	4373.3	4901.0	5030.7	4866.4	4601.7	4325.2	4068.6	3965.7	3977.8
30°	3623.7	3917.7	4727.4	5199.0	5128.3	4790.1	4426.8	4118.0	3860.3	3752.0	3764.0
32.5°	3713.3	4115.4	5134.9	5414.2	5110.9	4628.5	4209.0	3885.6	3658.4	3544.9	3559.5
35°	3814.7	4358.6	5521.1	5531.7	4994.6	4390.7	3921.6	3607.7	3409.9	3319.1	3339.1
37.5°	3947.1	4667.2	5861.8	5561.1	4791.6	4041.9	3565.0	3279.0	3116.0	3074.5	3103.9
40°	4111.4	5038.7	6122.3	5514.4	4490.8	3618.4	3174.7	2946.3	2854.1	2863.4	2895.5
42.5°	4325.2	5454.2	6305.4	5394.2	4072.6	3181.4	2832.7	2731.1	2775.2	2812.6	2847.3
45°	4603.1	5885.9	6419.0	5189.7	3599.7	2811.3	2631.0	2655.0	2688.4	2692.4	2719.1
47.5°	4958.5	6322.8	6493.8	4881.0	3117.3	2550.7	2502.6	2508.0	2501.3	2473.2	2494.6
50°	5402.2	6747.7	6560.6	4472.2	2707.1	2387.7	2323.6	2304.9	2212.7	2121.9	2133.8
52.5°	5907.2	7137.8	6588.7	3964.4	2387.7	2251.4	2147.3	2029.6	1857.3	1829.2	1838.5
55°	6468.5	7498.6	6516.5	3340.5	2119.2	2076.4	1918.7	1777.1	1758.4	1734.4	1738.4
57.5°	7139.1	7887.5	6369.6	2644.3	1843.9	1872.0	1718.3	1734.4	1701.0	1663.6	1656.8
60°	7872.7	8289.6	6111.7	2009.6	1559.3	1616.7	1666.2	1664.9	1655.5	1624.8	1614.1
62.5°	8532.8	8554.1	5603.9	1539.2	1309.4	1419.0	1554.0	1552.7	1544.6	1527.2	1520.6
65°	8925.6	8514.1	4756.8	1212.0	1103.7	1256.0	1401.7	1412.3	1413.7	1412.3	1412.3
67.5°	8856.2	8045.1	3594.3	964.7	934.0	1090.3	1250.7	1265.4	1276.0	1278.7	1281.4
70°	8070.4	7014.9	2343.7	769.7	783.0	944.6	1107.7	1122.4	1131.7	1142.5	1147.8
72.5°	6290.7	5157.6	1341.5	622.7	650.7	819.1	966.1	983.4	988.8	1008.8	1016.8
75°	3833.5	3033.1	724.2	490.4	534.4	700.2	825.7	845.8	855.2	879.2	881.9
77.5°	1822.6	1313.4	412.9	382.1	430.3	571.8	697.5	720.2	694.8	708.2	697.5
80°	616.0	487.7	260.6	291.3	328.7	446.3	558.5	581.3	527.8	525.1	519.8
82.5°	215.1	197.7	165.6	193.7	212.5	319.4	422.2	451.6	392.9	391.5	372.8
85°	84.2	80.2	92.1	105.6	126.9	196.4	277.9	292.6	241.8	195.1	192.4
87.5°	17.3	18.8	22.8	24.1	38.7	68.2	100.2	122.9	97.6	82.8	76.2
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)