

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: P884934

Luminaire Tested: **NAV-SB6A-727-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884934
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-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 24459 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

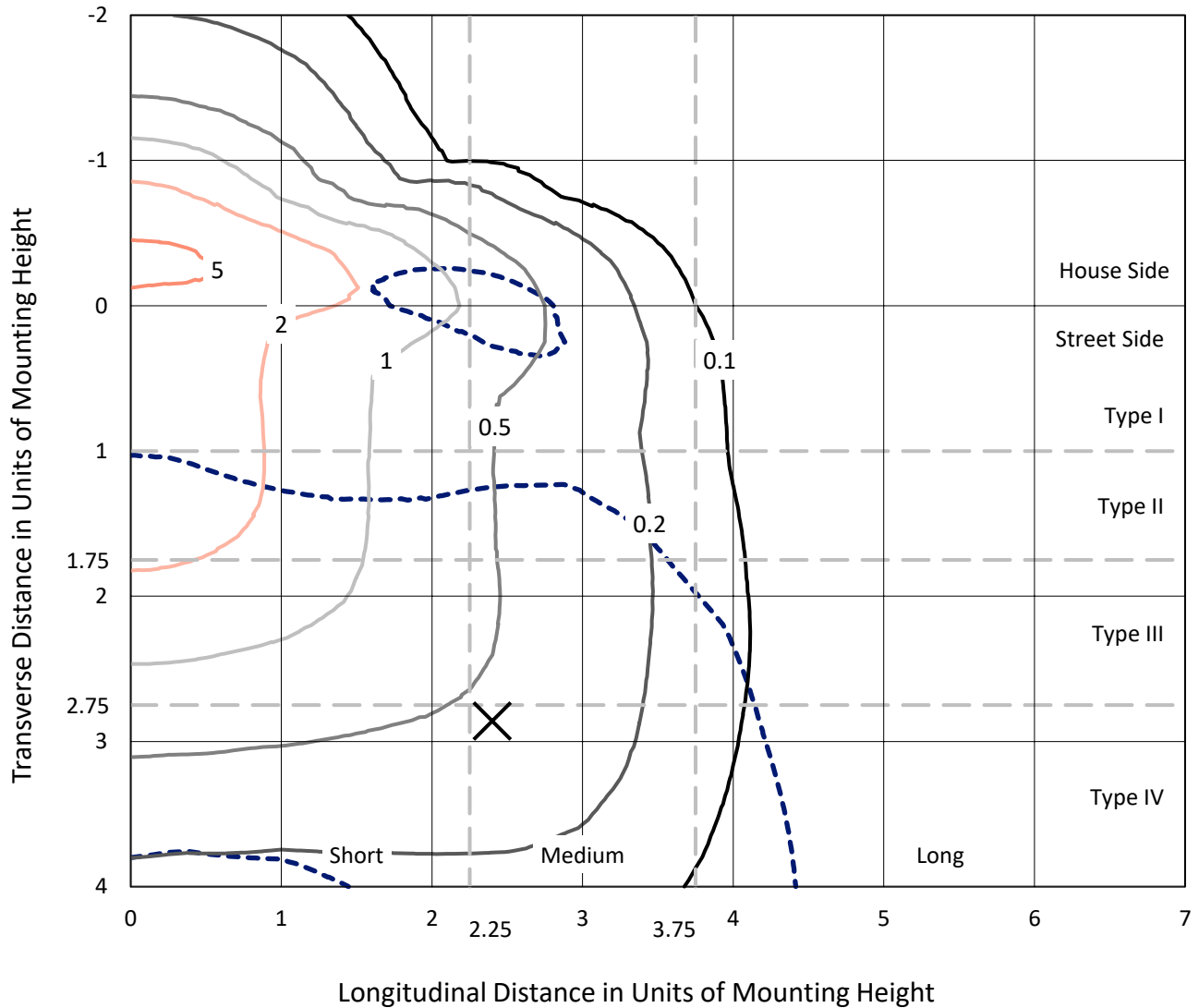
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

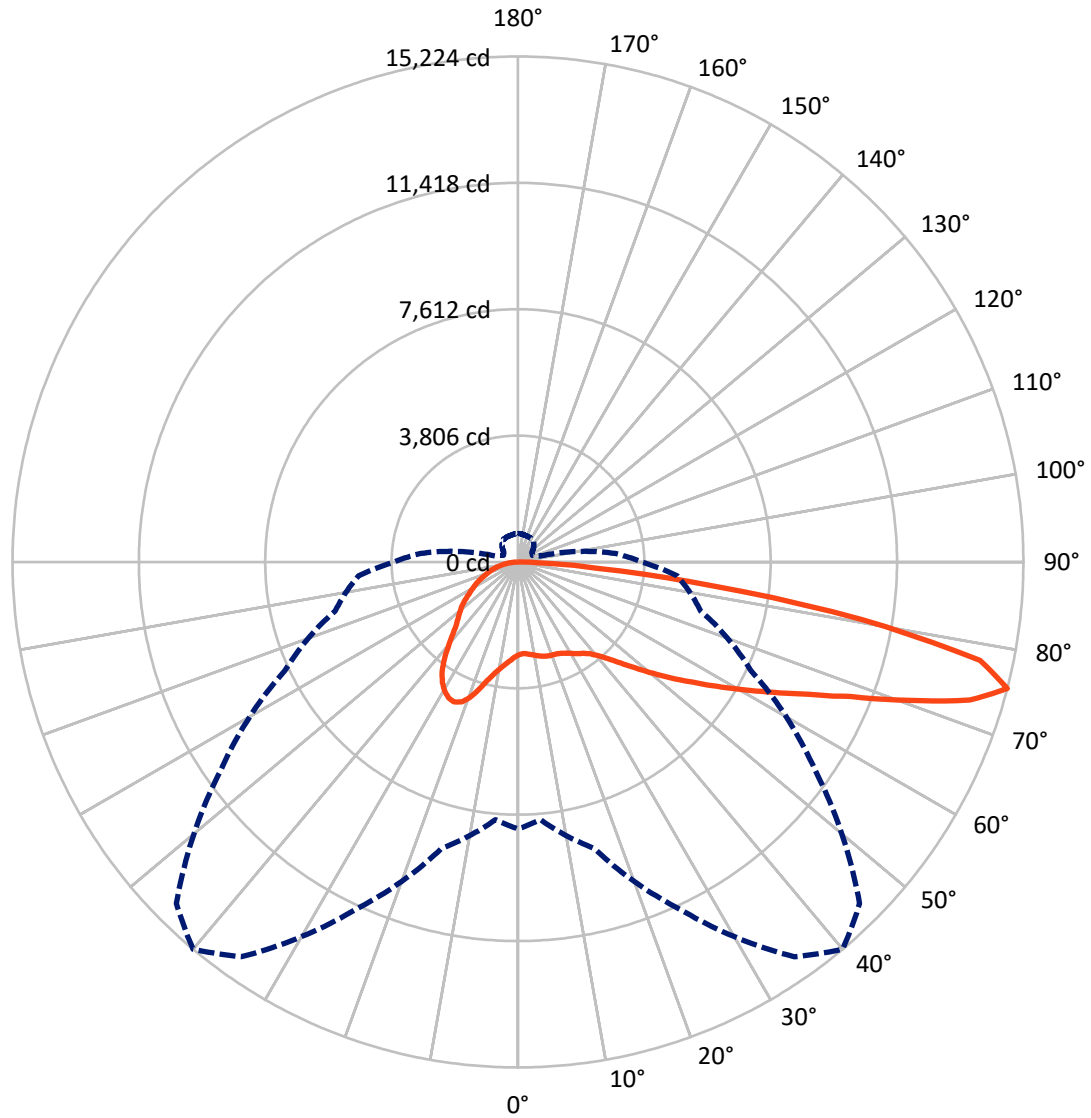
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	7578.2	0.0	7578.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16880.8	0.0	16880.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	24459.0	0.0	24459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.2	1.1
10°-20°	937.4	3.8
20°-30°	1711.5	7.0
30°-40°	2427.4	9.9
40°-50°	3277.8	13.4
50°-60°	4409.5	18.0
60°-70°	5596.6	22.9
70°-80°	5079.3	20.8
80°-90°	740.4	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°	24459.0	100.0
0°-180°	24459.0	100.0

Coefficient of Utilization



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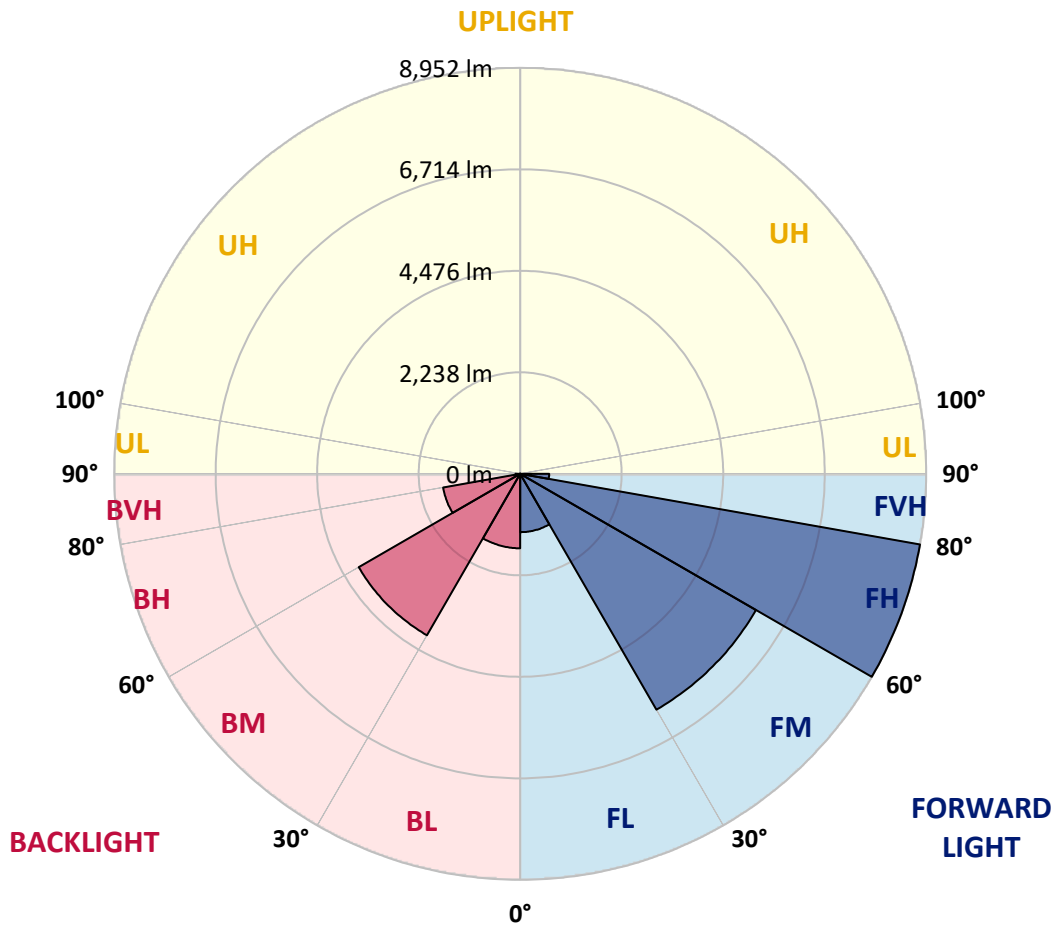
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.6	5.3			
FM (30°-60°)	6004.1	24.5			
FH (60°-80°)	8951.6	36.6			G4/12000
FVH (80°-90°)	638.5	2.6			G4/750
BL (0°-30°)	1641.5	6.7	B3/2500		
BM (30°-60°)	4110.5	16.8	B3/5000		
BH (60°-80°)	1724.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	101.9	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°	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9
2.5°	2754.1	2769.7	2765.8	2760.6	2760.6	2761.9	2760.6	2769.7	2778.8	2787.8	2802.1
5°	2782.6	2798.2	2790.4	2783.9	2778.8	2777.5	2773.6	2772.3	2777.5	2789.1	2808.6
7.5°	2838.4	2854.0	2842.3	2830.6	2820.3	2815.1	2809.9	2802.1	2798.2	2804.7	2831.9
10°	2900.7	2916.3	2902.0	2881.2	2864.4	2857.9	2852.7	2844.9	2839.7	2843.6	2873.5
12.5°	2963.0	2978.5	2959.1	2930.5	2908.5	2904.6	2898.1	2895.5	2894.2	2892.9	2922.8
15°	3021.3	3034.3	3009.7	2975.9	2952.6	2946.1	2939.6	2943.5	2950.0	2957.8	2991.5
17.5°	3066.8	3079.7	3043.4	2999.3	2977.2	2974.6	2970.8	2983.7	3001.9	3021.3	3062.9
20°	3108.3	3121.2	3074.5	3014.9	2988.9	2988.9	2990.2	3017.5	3043.4	3071.9	3129.0
22.5°	3166.6	3177.0	3119.9	3038.2	3000.6	3003.2	3013.6	3040.8	3073.2	3112.2	3191.3
25°	3253.6	3261.3	3191.3	3082.3	3039.5	3047.3	3056.4	3069.3	3100.5	3145.9	3252.3
27.5°	3393.7	3400.2	3308.0	3160.2	3095.3	3108.3	3121.2	3112.2	3126.4	3165.3	3301.6
30°	3590.8	3594.7	3478.0	3282.1	3190.0	3196.5	3199.1	3161.5	3134.2	3165.3	3336.6
32.5°	3824.4	3823.1	3684.3	3430.0	3297.7	3291.2	3269.1	3195.2	3131.6	3158.9	3367.7
35°	4186.3	4172.0	3993.0	3637.6	3419.6	3379.4	3327.5	3232.8	3144.6	3152.4	3395.0
37.5°	4785.6	4741.5	4493.8	3977.4	3601.2	3498.7	3422.2	3293.8	3173.1	3149.8	3427.4
40°	5461.5	5405.7	5133.3	4443.2	3873.7	3708.9	3585.7	3380.7	3219.8	3161.5	3475.4
42.5°	6263.2	6184.1	5890.9	4991.9	4218.7	3980.0	3794.5	3491.0	3288.6	3199.1	3540.3
45°	7247.9	7142.8	6727.7	5610.7	4653.3	4335.5	4087.7	3658.3	3393.7	3271.7	3637.6
47.5°	8242.9	8268.8	7678.6	6319.0	5174.8	4774.0	4454.8	3910.0	3546.7	3388.5	3794.5
50°	9300.1	9318.3	8624.3	7103.9	5766.4	5269.5	4867.4	4191.5	3759.5	3554.5	4029.3
52.5°	10125.2	10127.8	9483.1	7925.0	6382.6	5814.4	5312.3	4513.2	4006.0	3775.1	4342.0
55°	10641.5	10635.0	10085.0	8702.1	7090.9	6386.5	5805.3	4879.0	4306.9	4034.5	4735.0
57.5°	11016.4	10997.0	10500.1	9370.2	7845.9	7062.4	6363.1	5294.2	4662.4	4343.3	5252.7
60°	11159.1	11147.5	10781.6	9947.5	8639.8	7809.6	7006.6	5758.6	5065.8	4707.8	5918.2
62.5°	11213.6	11235.7	11057.9	10506.6	9489.5	8637.2	7713.6	6313.8	5519.9	5120.3	6620.0
65°	11405.6	11445.8	11409.5	11238.3	10449.5	9606.3	8651.5	6974.1	6015.5	5562.7	7352.9
67.5°	11785.7	11825.9	11841.5	12113.9	11622.3	10814.1	9821.6	7796.6	6595.3	6021.9	7904.3
70°	11776.6	11765.0	12040.0	12810.6	13090.8	12486.2	11399.1	8808.5	7286.8	6403.3	7974.3
72.5°	10719.4	10626.0	11275.9	12802.8	14312.8	14232.4	13325.6	10113.5	7883.5	6450.0	6919.7
75°	8041.8	7792.7	8940.8	11537.9	14516.5	15223.5	14550.2	10923.0	7742.1	5698.9	4815.5
77.5°	3439.1	3188.7	4541.8	8541.2	12992.2	14231.1	13426.8	9529.8	6180.2	3768.6	2364.9
80°	900.3	899.0	1372.5	3872.4	8835.7	10509.2	9219.7	6154.3	3531.2	1346.6	652.5
82.5°	372.3	363.2	504.6	1506.1	4317.3	5897.4	4812.9	2745.0	1275.2	364.5	216.6
85°	138.8	137.5	245.2	520.2	1523.0	2432.4	1760.4	701.8	317.8	177.7	97.3
87.5°	38.9	37.6	53.2	180.3	371.0	563.0	301.0	115.5	89.5	70.1	28.5
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°	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9	2796.9
2.5°	2806.0	2812.5	2824.2	2833.2	2844.9	2857.9	2876.1	2887.7	2899.4	2907.2	2902.0
5°	2817.7	2831.9	2861.8	2891.6	2926.6	2959.1	2996.7	3023.9	3046.0	3052.5	3055.1
7.5°	2843.6	2867.0	2917.6	2968.2	3023.9	3077.1	3131.6	3178.3	3215.9	3230.2	3231.5
10°	2889.0	2920.2	2991.5	3062.9	3136.8	3218.5	3288.6	3356.0	3409.2	3431.3	3432.6
12.5°	2946.1	2985.0	3078.4	3177.0	3279.5	3392.4	3483.2	3566.2	3632.4	3662.2	3662.2
15°	3020.1	3070.6	3190.0	3322.3	3472.8	3629.8	3745.2	3837.3	3911.3	3947.6	3945.0
17.5°	3100.5	3167.9	3318.4	3518.2	3733.5	3939.8	4074.7	4142.2	4218.7	4253.8	4252.5
20°	3178.3	3261.3	3476.7	3767.3	4054.0	4273.2	4382.2	4400.3	4405.5	4409.4	4419.8
22.5°	3258.7	3370.3	3675.2	4081.2	4388.7	4540.5	4556.0	4478.2	4369.2	4318.6	4332.9
25°	3347.0	3494.9	3934.6	4427.6	4676.7	4694.8	4575.5	4386.1	4179.8	4085.1	4099.4
27.5°	3432.6	3638.8	4246.0	4758.4	4884.2	4724.7	4467.8	4199.3	3950.2	3850.3	3862.0
30°	3518.2	3803.6	4589.7	5047.7	4978.9	4650.7	4297.9	3998.2	3747.8	3642.7	3654.4
32.5°	3605.1	3995.6	4985.4	5256.5	4962.1	4493.8	4086.4	3772.5	3551.9	3441.7	3455.9
35°	3703.7	4231.7	5360.3	5370.7	4849.2	4262.8	3807.5	3502.6	3310.6	3222.4	3241.9
37.5°	3832.1	4531.4	5691.1	5399.2	4652.0	3924.2	3461.1	3183.5	3025.2	2985.0	3013.6
40°	3991.7	4892.0	5944.1	5353.8	4360.1	3513.0	3082.3	2860.5	2771.0	2780.1	2811.2
42.5°	4199.3	5295.5	6121.8	5237.1	3954.1	3088.8	2750.2	2651.6	2694.4	2730.8	2764.5
45°	4469.1	5714.5	6232.1	5038.6	3494.9	2729.5	2554.3	2577.7	2610.1	2614.0	2639.9
47.5°	4814.2	6138.7	6304.7	4738.9	3026.5	2476.5	2429.8	2435.0	2428.5	2401.3	2422.0
50°	5244.9	6551.2	6369.6	4342.0	2628.3	2318.2	2256.0	2237.8	2148.3	2060.1	2071.7
52.5°	5735.2	6930.0	6396.9	3849.0	2318.2	2185.9	2084.7	1970.6	1803.2	1776.0	1785.0
55°	6280.1	7280.3	6326.8	3243.2	2057.5	2016.0	1862.9	1725.4	1707.2	1683.9	1687.8
57.5°	6931.3	7657.8	6184.1	2567.3	1790.2	1817.5	1668.3	1683.9	1651.4	1615.1	1608.6
60°	7643.5	8048.3	5933.7	1951.1	1513.9	1569.7	1617.7	1616.4	1607.3	1577.5	1567.1
62.5°	8284.4	8305.1	5440.8	1494.5	1271.3	1377.7	1508.7	1507.4	1499.6	1482.8	1476.3
65°	8665.8	8266.2	4618.3	1176.6	1071.5	1219.4	1360.8	1371.2	1372.5	1371.2	1371.2
67.5°	8598.3	7810.9	3489.7	936.6	906.8	1058.6	1214.2	1228.5	1238.9	1241.5	1244.1
70°	7835.5	6810.7	2275.4	747.2	760.2	917.2	1075.4	1089.7	1098.8	1109.2	1114.4
72.5°	6107.6	5007.5	1302.5	604.5	631.8	795.2	937.9	954.8	960.0	979.4	987.2
75°	3721.9	2944.8	703.1	476.1	518.9	679.8	801.7	821.2	830.3	853.6	856.2
77.5°	1769.5	1275.2	400.9	371.0	417.7	555.2	677.2	699.2	674.6	687.6	677.2
80°	598.0	473.5	253.0	282.8	319.1	433.3	542.3	564.3	512.4	509.8	504.6
82.5°	208.9	192.0	160.9	188.1	206.3	310.0	409.9	438.5	381.4	380.1	361.9
85°	81.7	77.8	89.5	102.5	123.2	190.7	269.8	284.1	234.8	189.4	186.8
87.5°	16.9	18.2	22.1	23.4	37.6	66.2	97.3	119.3	94.7	80.4	73.9
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)