

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: P884954

Luminaire Tested: **NAV-SB6A-735-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884954
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-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 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: 26989 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

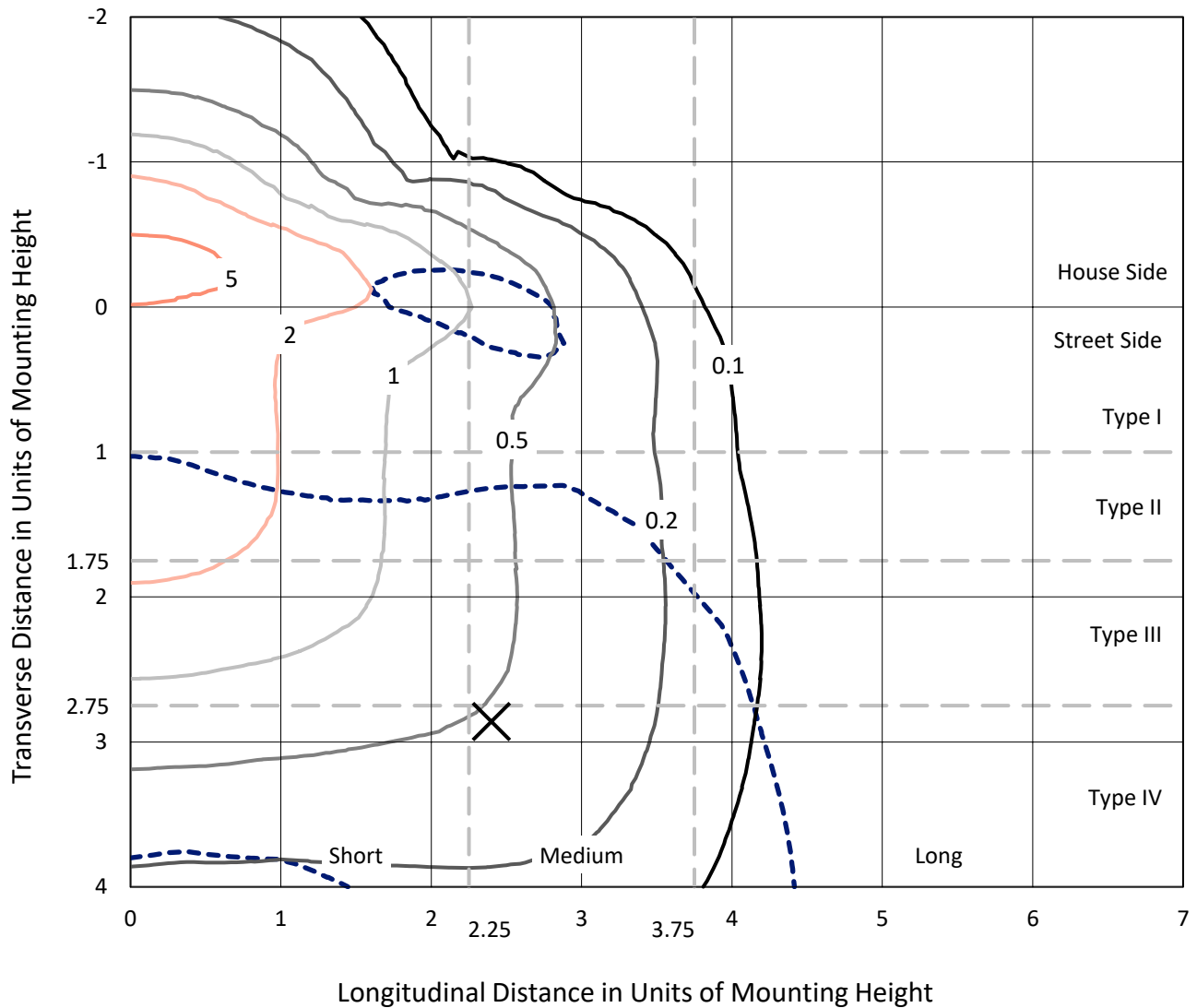
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

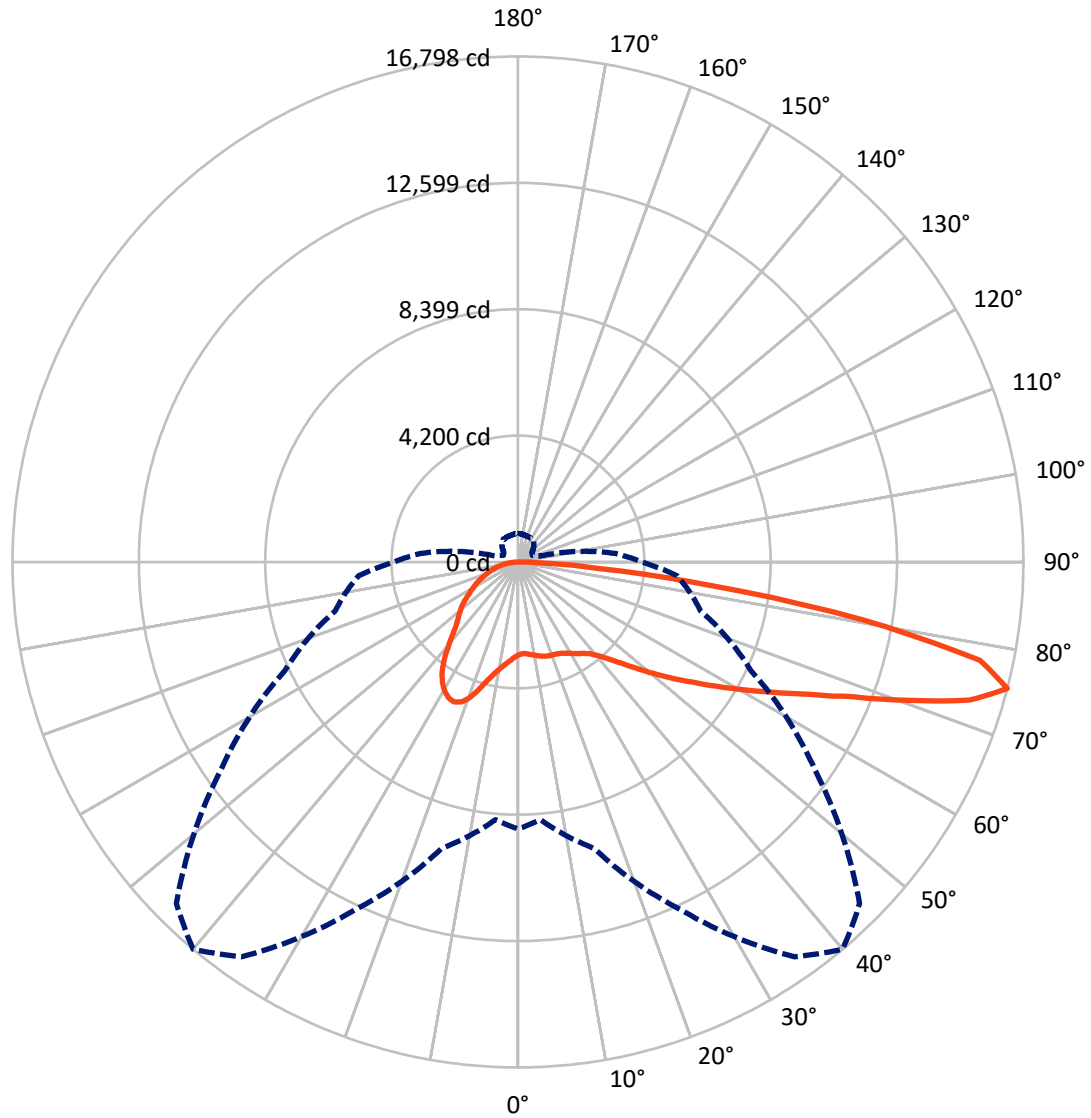
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	8362.1	0.0	8362.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18626.9	0.0	18626.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	26989.0	0.0	26989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.1	1.1
10°-20°	1034.3	3.8
20°-30°	1888.6	7.0
30°-40°	2678.5	9.9
40°-50°	3616.8	13.4
50°-60°	4865.6	18.0
60°-70°	6175.5	22.9
70°-80°	5604.7	20.8
80°-90°	817.0	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°	26989.0	100.0
0°-180°	26989.0	100.0

Coefficient of Utilization



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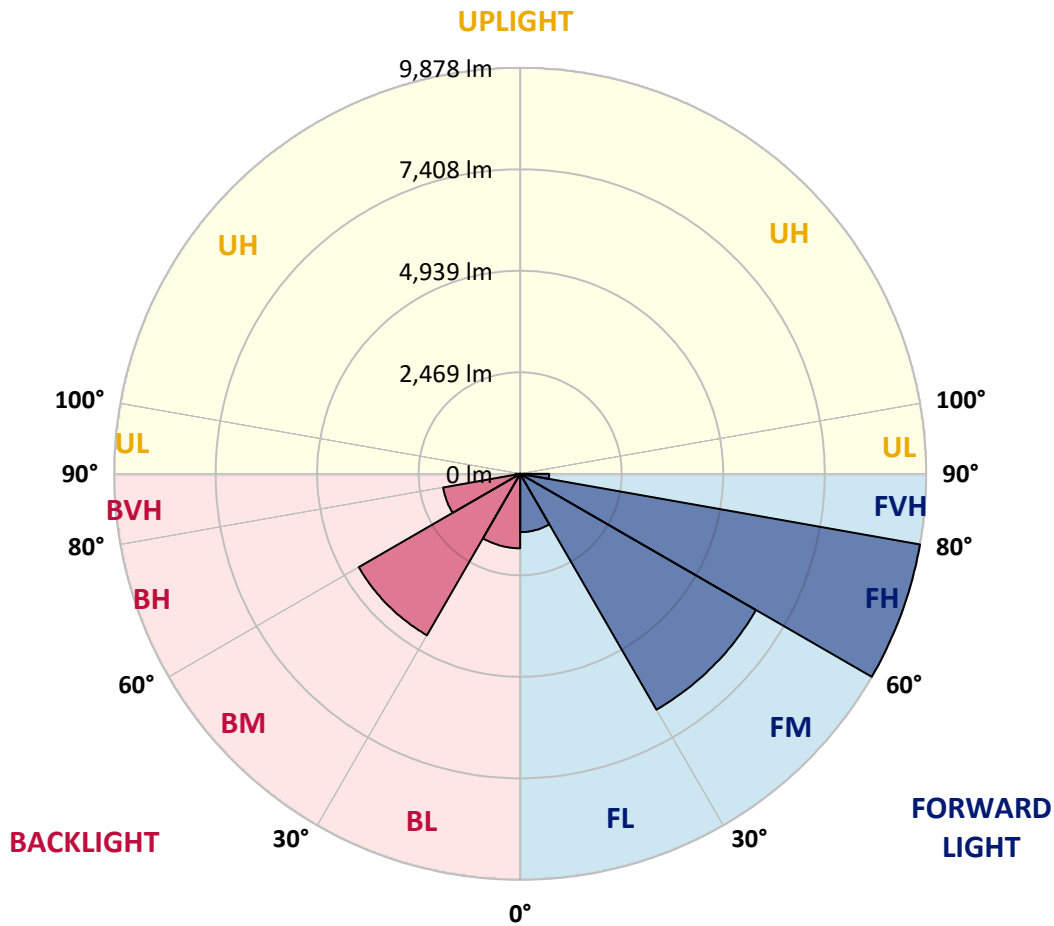
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.6	5.3			
FM (30°-60°)	6625.2	24.5			
FH (60°-80°)	9877.6	36.6			G4/12000
FVH (80°-90°)	704.5	2.6			G4/750
BL (0°-30°)	1811.3	6.7	B3/2500		
BM (30°-60°)	4535.7	16.8	B3/5000		
BH (60°-80°)	1902.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	112.5	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°	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2
2.5°	3039.0	3056.2	3051.9	3046.1	3046.1	3047.6	3046.1	3056.2	3066.2	3076.2	3092.0
5°	3070.5	3087.7	3079.1	3071.9	3066.2	3064.8	3060.5	3059.0	3064.8	3077.6	3099.1
7.5°	3132.0	3149.2	3136.3	3123.4	3112.0	3106.3	3100.5	3092.0	3087.7	3094.8	3124.9
10°	3200.7	3217.9	3202.2	3179.3	3160.7	3153.5	3147.8	3139.2	3133.5	3137.8	3170.7
12.5°	3269.5	3286.6	3265.2	3233.7	3209.3	3205.0	3197.9	3195.0	3193.6	3192.2	3225.1
15°	3333.9	3348.2	3321.0	3283.8	3258.0	3250.8	3243.7	3248.0	3255.1	3263.7	3300.9
17.5°	3384.0	3398.3	3358.2	3309.5	3285.2	3282.3	3278.0	3292.4	3312.4	3333.9	3379.7
20°	3429.8	3444.1	3392.6	3326.7	3298.1	3298.1	3299.5	3329.6	3358.2	3389.7	3452.7
22.5°	3494.2	3505.6	3442.7	3352.5	3311.0	3313.8	3325.3	3355.3	3391.1	3434.1	3521.4
25°	3590.1	3598.7	3521.4	3401.1	3353.9	3362.5	3372.5	3386.8	3421.2	3471.3	3588.7
27.5°	3744.7	3751.9	3650.2	3487.0	3415.5	3429.8	3444.1	3434.1	3449.8	3492.8	3643.1
30°	3962.3	3966.6	3837.7	3621.6	3520.0	3527.1	3530.0	3488.5	3458.4	3492.8	3681.7
32.5°	4219.9	4218.5	4065.3	3784.8	3638.8	3631.6	3607.3	3525.7	3455.5	3485.6	3716.1
35°	4619.3	4603.6	4406.0	4013.8	3773.3	3729.0	3671.7	3567.2	3469.9	3478.4	3746.1
37.5°	5280.7	5232.0	4958.6	4388.9	3973.7	3860.6	3776.2	3634.5	3501.4	3475.6	3781.9
40°	6026.4	5964.9	5664.3	4902.8	4274.3	4092.5	3956.6	3730.4	3552.9	3488.5	3834.9
42.5°	6911.1	6823.8	6500.3	5508.3	4655.1	4391.7	4187.0	3852.1	3628.8	3530.0	3906.5
45°	7997.6	7881.6	7423.6	6191.1	5134.6	4783.9	4510.5	4036.7	3744.7	3610.1	4013.8
47.5°	9095.5	9124.1	8472.8	6972.6	5710.1	5267.8	4915.6	4314.4	3913.6	3739.0	4187.0
50°	10262.1	10282.2	9516.3	7838.7	6362.8	5814.6	5370.8	4625.0	4148.4	3922.2	4446.1
52.5°	11172.5	11175.4	10464.0	8744.8	7042.8	6415.8	5861.8	4980.0	4420.3	4165.5	4791.1
55°	11742.3	11735.1	11128.2	9602.2	7824.4	7047.1	6405.8	5383.7	4752.4	4451.8	5224.8
57.5°	12156.0	12134.5	11586.2	10339.4	8657.5	7792.9	7021.3	5841.8	5144.7	4792.5	5796.0
60°	12313.4	12300.5	11896.9	10976.4	9533.5	8617.4	7731.3	6354.3	5589.9	5194.8	6530.3
62.5°	12373.5	12397.9	12201.8	11593.4	10471.1	9530.7	8511.5	6966.9	6090.9	5650.0	7304.7
65°	12585.4	12629.8	12589.7	12400.7	11530.4	10600.0	9546.4	7695.5	6637.7	6138.1	8113.5
67.5°	13004.8	13049.2	13066.4	13367.0	12824.5	11932.7	10837.6	8603.1	7277.5	6644.8	8721.9
70°	12994.8	12981.9	13285.4	14135.7	14444.9	13777.8	12578.2	9719.6	8040.5	7065.7	8799.2
72.5°	11828.2	11725.1	12442.3	14127.1	15793.3	15704.5	14704.0	11159.7	8699.0	7117.2	7635.4
75°	8873.6	8598.8	9865.6	12731.4	16018.0	16798.2	16055.3	12052.9	8543.0	6288.4	5313.6
77.5°	3794.8	3518.5	5011.5	9424.7	14336.1	15703.1	14815.6	10515.5	6819.5	4158.4	2609.6
80°	993.4	992.0	1514.5	4272.9	9749.7	11596.3	10173.4	6790.8	3896.4	1485.9	720.0
82.5°	410.8	400.8	556.8	1661.9	4763.9	6507.4	5310.7	3029.0	1407.1	402.2	239.1
85°	153.2	151.7	270.5	574.0	1680.5	2684.0	1942.5	774.4	350.7	196.1	107.4
87.5°	42.9	41.5	58.7	199.0	409.4	621.3	332.1	127.4	98.8	77.3	31.5
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°	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2	3086.2
2.5°	3096.2	3103.4	3116.3	3126.3	3139.2	3153.5	3173.5	3186.4	3199.3	3207.9	3202.2
5°	3109.1	3124.9	3157.8	3190.7	3229.4	3265.2	3306.7	3336.7	3361.1	3368.2	3371.1
7.5°	3137.8	3163.5	3219.4	3275.2	3336.7	3395.4	3455.5	3507.1	3548.6	3564.3	3565.8
10°	3187.9	3222.2	3300.9	3379.7	3461.3	3551.5	3628.8	3703.2	3761.9	3786.2	3787.6
12.5°	3250.8	3293.8	3396.9	3505.6	3618.7	3743.3	3843.5	3935.1	4008.1	4041.0	4041.0
15°	3332.4	3388.3	3520.0	3666.0	3832.0	4005.2	4132.6	4234.3	4315.9	4355.9	4353.1
17.5°	3421.2	3495.6	3661.7	3882.1	4119.7	4347.3	4496.2	4570.7	4655.1	4693.8	4692.3
20°	3507.1	3598.7	3836.3	4157.0	4473.3	4715.2	4835.5	4855.5	4861.2	4865.5	4877.0
22.5°	3595.8	3718.9	4055.3	4503.4	4842.6	5010.1	5027.3	4941.4	4821.2	4765.3	4781.1
25°	3693.2	3856.4	4341.6	4885.6	5160.4	5180.5	5048.8	4839.8	4612.2	4507.7	4523.4
27.5°	3787.6	4015.2	4685.2	5250.6	5389.4	5213.4	4929.9	4633.6	4358.8	4248.6	4261.5
30°	3882.1	4197.0	5064.5	5569.8	5493.9	5131.8	4742.4	4411.8	4135.5	4019.5	4032.4
32.5°	3978.0	4408.9	5501.1	5800.3	5475.3	4958.6	4509.1	4162.7	3919.3	3797.7	3813.4
35°	4086.8	4669.4	5914.8	5926.2	5350.8	4703.8	4201.3	3864.9	3653.1	3555.7	3577.2
37.5°	4228.5	5000.1	6279.8	5957.7	5133.2	4330.2	3819.1	3512.8	3338.2	3293.8	3325.3
40°	4404.6	5398.0	6559.0	5907.6	4811.1	3876.4	3401.1	3156.4	3057.6	3067.6	3102.0
42.5°	4633.6	5843.2	6755.1	5778.8	4363.1	3408.3	3034.7	2925.9	2973.1	3013.2	3050.4
45°	4931.4	6305.6	6876.7	5559.8	3856.4	3011.8	2818.5	2844.3	2880.1	2884.4	2913.0
47.5°	5312.1	6773.7	6956.9	5229.1	3339.6	2732.7	2681.1	2686.9	2679.7	2649.6	2672.5
50°	5787.4	7228.9	7028.5	4791.1	2900.1	2558.0	2489.3	2469.3	2370.5	2273.2	2286.0
52.5°	6328.5	7646.9	7058.5	4247.1	2558.0	2412.0	2300.4	2174.4	1989.7	1959.7	1969.7
55°	6929.7	8033.4	6981.2	3578.7	2270.3	2224.5	2055.6	1903.8	1883.8	1858.0	1862.3
57.5°	7648.3	8449.9	6823.8	2832.9	1975.4	2005.5	1840.9	1858.0	1822.2	1782.2	1775.0
60°	8434.2	8880.8	6547.5	2152.9	1670.5	1732.1	1785.0	1783.6	1773.6	1740.7	1729.2
62.5°	9141.3	9164.2	6003.5	1649.0	1402.8	1520.2	1664.8	1663.4	1654.8	1636.2	1629.0
65°	9562.2	9121.3	5096.0	1298.3	1182.4	1345.6	1501.6	1513.1	1514.5	1513.1	1513.1
67.5°	9487.7	8618.8	3850.6	1033.5	1000.6	1168.1	1339.8	1355.6	1367.0	1369.9	1372.8
70°	8646.0	7515.2	2510.8	824.5	838.8	1012.0	1186.7	1202.4	1212.4	1223.9	1229.6
72.5°	6739.3	5525.4	1437.2	667.1	697.1	877.5	1034.9	1053.6	1059.3	1080.8	1089.3
75°	4106.9	3249.4	775.9	525.3	572.6	750.1	884.6	906.1	916.1	941.9	944.8
77.5°	1952.5	1407.1	442.3	409.4	460.9	612.7	747.2	771.6	744.4	758.7	747.2
80°	659.9	522.5	279.1	312.1	352.1	478.1	598.4	622.7	565.4	562.6	556.8
82.5°	230.5	211.9	177.5	207.6	227.6	342.1	452.3	483.8	420.8	419.4	399.4
85°	90.2	85.9	98.8	113.1	136.0	210.4	297.7	313.5	259.1	209.0	206.1
87.5°	18.6	20.0	24.3	25.8	41.5	73.0	107.4	131.7	104.5	88.8	81.6
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)