

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: P964995

Luminaire Tested: **NAV-SB3D-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964995
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-SB3D-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25627.1 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

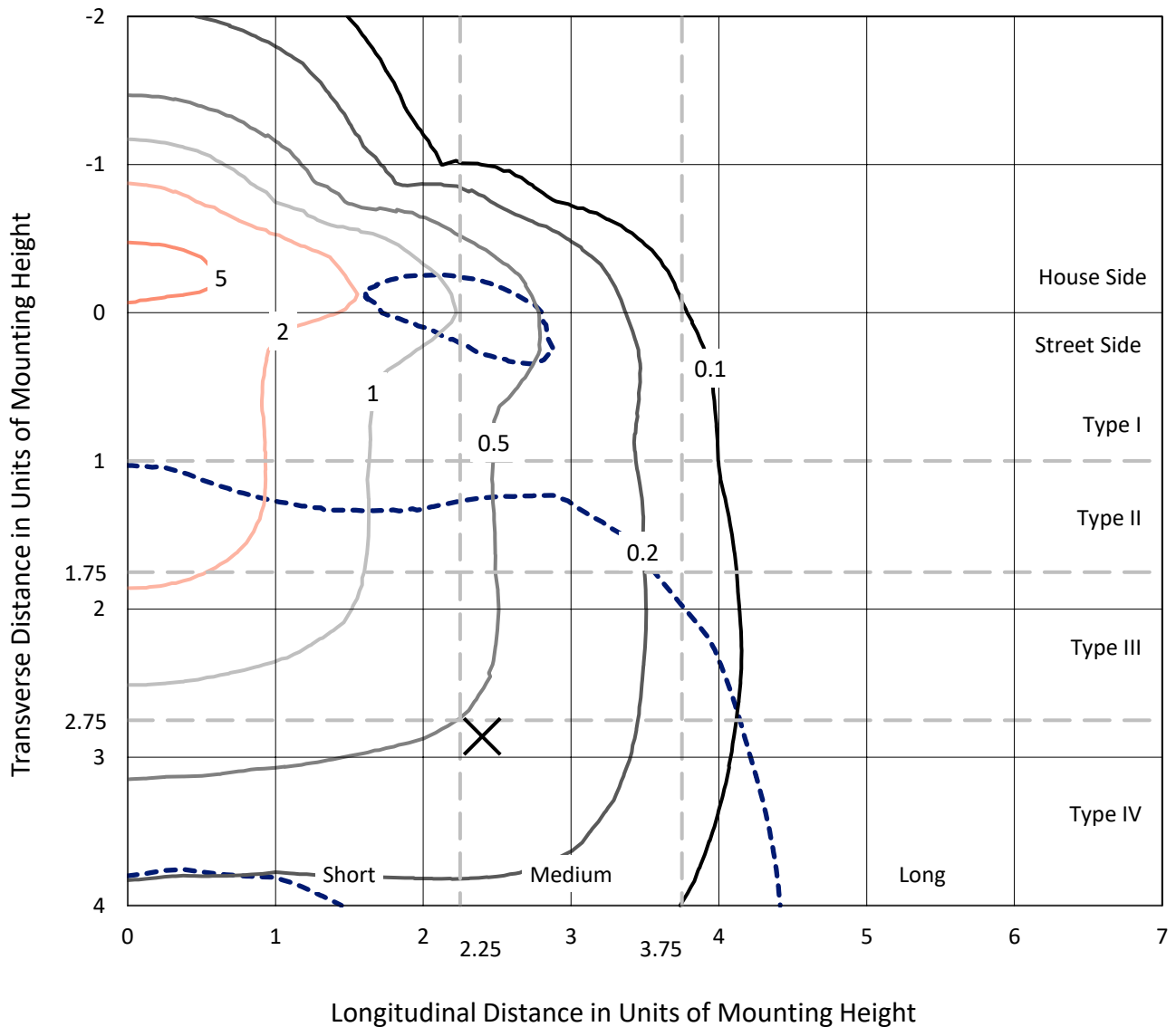
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

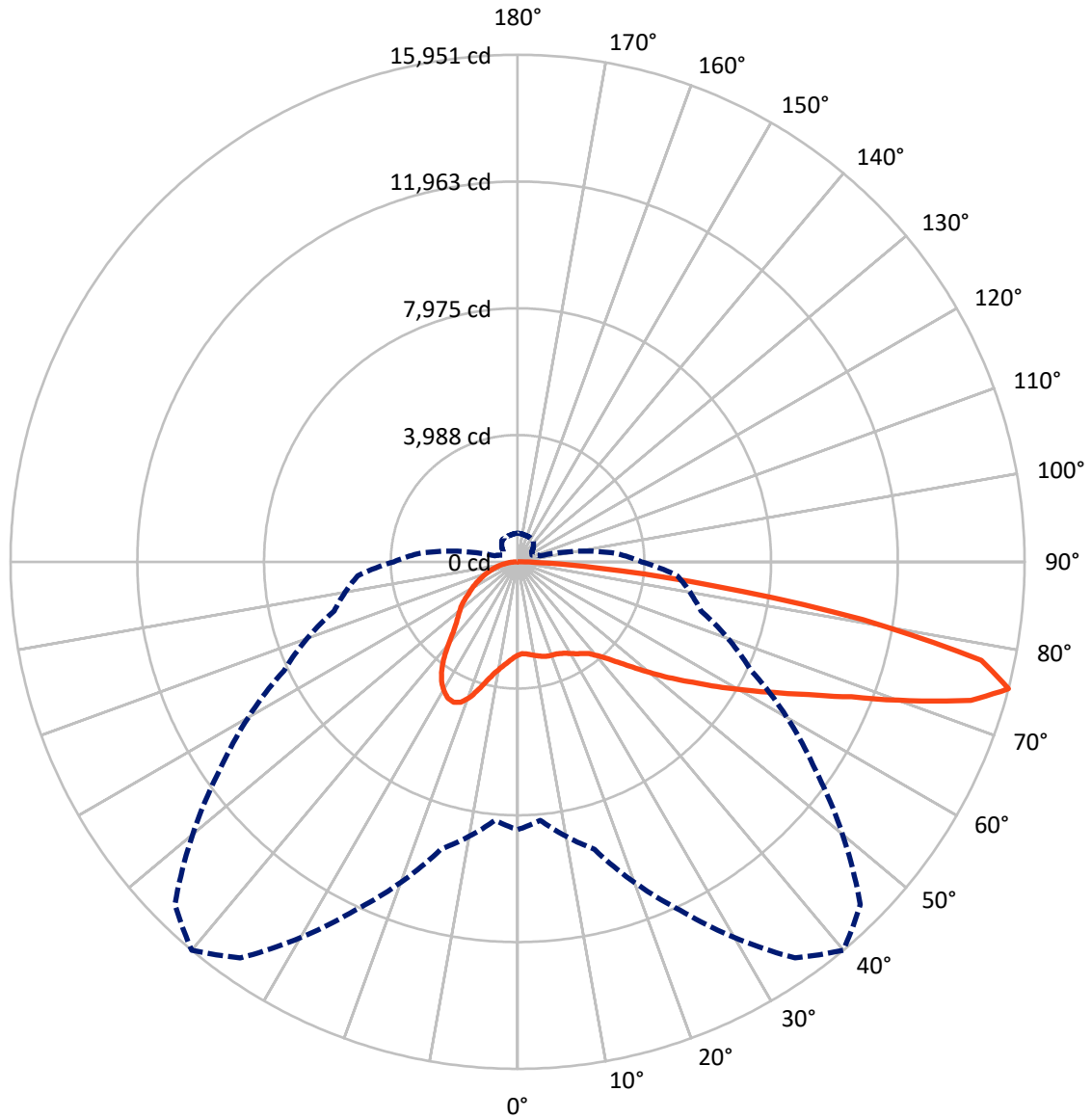
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	7940.1	0.0	7940.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17686.9	0.0	17686.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	25627.1	0.0	25627.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	1.1
10°-20°	982.1	3.8
20°-30°	1793.3	7.0
30°-40°	2543.3	9.9
40°-50°	3434.3	13.4
50°-60°	4620.0	18.0
60°-70°	5863.9	22.9
70°-80°	5321.8	20.8
80°-90°	775.8	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°	25627.1	100.0
0°-180°	25627.1	100.0

Coefficient of Utilization

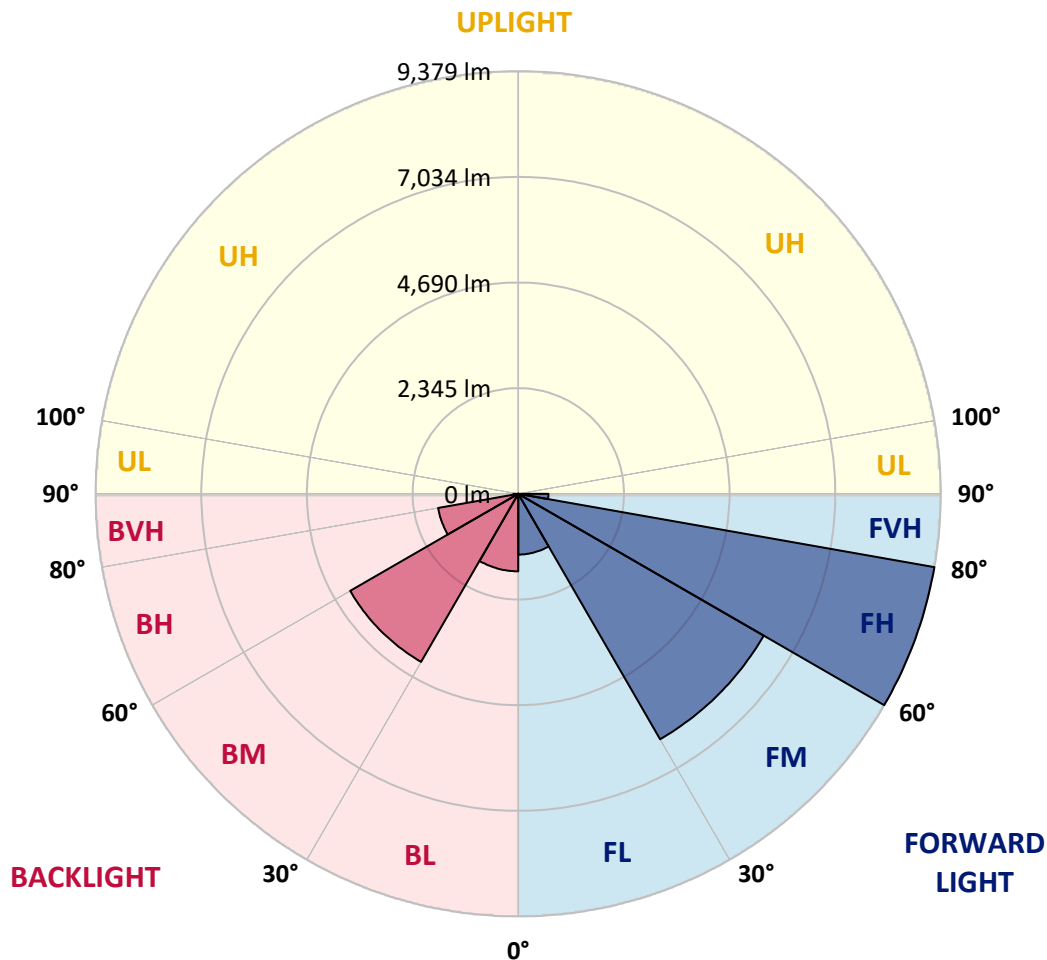


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.0	5.3			
FM (30°-60°)	6290.9	24.5			
FH (60°-80°)	9379.1	36.6			G4/12000
FVH (80°-90°)	669.0	2.6			G4/750
BL (0°-30°)	1719.9	6.7	B3/2500		
BM (30°-60°)	4306.8	16.8	B3/5000		
BH (60°-80°)	1806.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	106.8	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°	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5
2.5°	2885.7	2902.0	2897.9	2892.4	2892.4	2893.8	2892.4	2902.0	2911.4	2920.9	2935.9
5°	2915.5	2931.8	2923.7	2916.9	2911.4	2910.1	2906.0	2904.6	2910.1	2922.4	2942.7
7.5°	2973.9	2990.3	2978.0	2965.8	2955.0	2949.5	2944.1	2935.9	2931.8	2938.7	2967.2
10°	3039.2	3055.5	3040.6	3018.8	3001.2	2994.3	2988.9	2980.8	2975.4	2979.5	3010.7
12.5°	3104.4	3120.8	3100.4	3070.5	3047.4	3043.3	3036.5	3033.8	3032.5	3031.0	3062.3
15°	3165.6	3179.2	3153.4	3118.0	3093.6	3086.8	3080.0	3084.1	3090.9	3099.0	3134.3
17.5°	3213.2	3226.8	3188.8	3142.5	3119.4	3116.7	3112.6	3126.2	3145.2	3165.6	3209.2
20°	3256.7	3270.3	3221.4	3158.8	3131.7	3131.7	3133.0	3161.5	3188.8	3218.6	3278.5
22.5°	3317.8	3328.8	3268.9	3183.3	3143.9	3146.6	3157.5	3186.0	3220.0	3260.7	3343.7
25°	3408.9	3417.0	3343.7	3229.5	3184.7	3192.8	3202.3	3215.9	3248.5	3296.1	3407.6
27.5°	3555.7	3562.5	3466.0	3311.1	3243.1	3256.7	3270.3	3260.7	3275.7	3316.5	3459.3
30°	3762.4	3766.4	3644.1	3438.9	3342.3	3349.1	3351.9	3312.4	3283.9	3316.5	3496.0
32.5°	4007.0	4005.6	3860.2	3593.8	3455.2	3448.3	3425.2	3347.8	3281.1	3309.7	3528.6
35°	4386.2	4371.2	4183.7	3811.3	3582.9	3540.8	3486.4	3387.2	3294.8	3303.0	3557.1
37.5°	5014.2	4968.0	4708.3	4167.3	3773.2	3665.8	3585.7	3451.1	3324.7	3300.2	3591.1
40°	5722.4	5663.8	5378.5	4655.3	4058.7	3886.0	3756.9	3542.1	3373.6	3312.4	3641.3
42.5°	6562.4	6479.4	6172.2	5230.3	4420.2	4170.1	3975.8	3657.7	3445.6	3351.9	3709.4
45°	7594.0	7483.9	7048.9	5878.7	4875.5	4542.5	4283.0	3833.0	3555.7	3428.0	3811.3
47.5°	8636.5	8663.7	8045.2	6620.8	5421.9	5001.9	4667.5	4096.7	3716.1	3550.3	3975.8
50°	9744.3	9763.3	9036.1	7443.1	6041.8	5521.2	5099.8	4391.6	3939.1	3724.2	4221.8
52.5°	10608.7	10611.4	9935.9	8303.5	6687.4	6092.1	5566.1	4728.7	4197.3	3955.4	4549.4
55°	11149.7	11142.9	10566.6	9117.7	7429.5	6691.5	6082.6	5112.1	4512.7	4227.2	4961.2
57.5°	11542.5	11522.1	11001.5	9817.7	8220.6	7399.6	6667.0	5547.0	4885.0	4550.7	5503.5
60°	11692.1	11679.8	11296.5	10422.5	9052.4	8182.6	7341.2	6033.6	5307.8	4932.6	6200.7
62.5°	11749.2	11772.2	11586.0	11008.4	9942.7	9049.7	8081.9	6615.4	5783.5	5364.8	6936.1
65°	11950.3	11992.4	11954.4	11775.0	10948.5	10065.1	9064.7	7307.2	6302.7	5828.4	7704.1
67.5°	12348.6	12390.7	12407.0	12692.5	12177.3	11330.5	10290.7	8168.9	6910.3	6309.5	8281.8
70°	12339.1	12326.9	12615.0	13422.4	13715.9	13082.5	11943.5	9229.1	7634.7	6709.1	8355.2
72.5°	11231.2	11133.4	11814.4	13414.2	14996.4	14912.0	13961.9	10596.6	8260.0	6758.0	7250.1
75°	8425.8	8164.8	9367.8	12089.0	15209.7	15950.5	15245.0	11444.6	8111.8	5971.0	5045.5
77.5°	3603.3	3341.0	4758.7	8949.2	13612.6	14910.7	14067.9	9984.8	6475.3	3948.5	2477.8
80°	943.3	942.0	1438.1	4057.3	9257.7	11011.1	9660.0	6448.2	3699.8	1410.9	683.7
82.5°	390.1	380.6	528.7	1578.1	4523.5	6179.0	5042.7	2876.1	1336.1	381.9	227.0
85°	145.4	144.1	256.9	545.1	1595.7	2548.6	1844.5	735.3	333.0	186.2	102.0
87.5°	40.8	39.5	55.8	188.9	388.8	589.9	315.3	121.0	93.8	73.4	29.9
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°	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5	2930.5
2.5°	2940.0	2946.8	2959.1	2968.5	2980.8	2994.3	3013.4	3025.6	3037.9	3046.0	3040.6
5°	2952.2	2967.2	2998.4	3029.7	3066.4	3100.4	3139.8	3168.4	3191.4	3198.2	3201.0
7.5°	2979.5	3003.9	3056.9	3110.0	3168.4	3224.0	3281.1	3330.1	3369.5	3384.4	3385.8
10°	3027.0	3059.6	3134.3	3209.2	3286.6	3372.2	3445.6	3516.3	3572.0	3595.2	3596.5
12.5°	3086.8	3127.6	3225.5	3328.8	3436.1	3554.4	3649.5	3736.5	3805.8	3837.1	3837.1
15°	3164.3	3217.3	3342.3	3481.0	3638.6	3803.2	3924.1	4020.6	4098.1	4136.1	4133.4
17.5°	3248.5	3319.3	3476.9	3686.2	3911.8	4128.0	4269.3	4340.0	4420.2	4456.9	4455.6
20°	3330.1	3417.0	3642.7	3947.2	4247.6	4477.3	4591.5	4610.4	4615.9	4620.0	4630.8
22.5°	3414.4	3531.2	3850.7	4276.1	4598.3	4757.3	4773.6	4692.0	4577.9	4524.9	4539.8
25°	3506.8	3661.7	4122.5	4639.0	4900.0	4919.1	4794.0	4595.6	4379.4	4280.2	4295.2
27.5°	3596.5	3812.6	4448.7	4985.6	5117.5	4950.3	4681.2	4399.8	4138.8	4034.2	4046.4
30°	3686.2	3985.2	4808.9	5288.7	5216.7	4872.8	4503.1	4189.2	3926.8	3816.7	3828.9
32.5°	3777.3	4186.4	5223.5	5507.5	5199.0	4708.3	4281.5	3952.6	3721.6	3606.1	3621.0
35°	3880.5	4433.7	5616.3	5627.1	5080.8	4466.4	3989.3	3669.9	3468.7	3376.4	3396.7
37.5°	4015.1	4747.8	5962.9	5657.1	4874.2	4111.7	3626.4	3335.6	3169.7	3127.6	3157.5
40°	4182.3	5125.6	6228.0	5609.5	4568.3	3680.8	3229.5	2997.1	2903.3	2912.8	2945.4
42.5°	4399.8	5548.3	6414.1	5487.2	4142.9	3236.3	2881.6	2778.3	2823.2	2861.2	2896.5
45°	4682.5	5987.3	6529.8	5279.3	3661.7	2859.9	2676.3	2700.8	2734.8	2738.8	2766.1
47.5°	5044.1	6431.9	6605.8	4965.2	3171.0	2594.8	2545.8	2551.2	2544.5	2516.0	2537.7
50°	5495.3	6864.1	6673.8	4549.4	2753.8	2428.9	2363.6	2344.7	2250.9	2158.4	2170.6
52.5°	6009.2	7261.0	6702.4	4032.9	2428.9	2290.3	2184.3	2064.7	1889.3	1860.8	1870.3
55°	6580.0	7627.9	6629.0	3398.1	2155.8	2112.2	1951.8	1807.8	1788.7	1764.2	1768.3
57.5°	7262.3	8023.5	6479.4	2689.9	1875.7	1904.2	1747.9	1764.2	1730.3	1692.3	1685.4
60°	8008.5	8432.7	6217.1	2044.3	1586.2	1644.6	1694.9	1693.6	1684.1	1652.8	1641.9
62.5°	8680.0	8701.7	5700.5	1565.8	1332.1	1443.5	1580.8	1579.4	1571.2	1553.6	1546.8
65°	9079.7	8660.9	4838.8	1232.8	1122.7	1277.7	1425.8	1436.7	1438.1	1436.7	1436.7
67.5°	9008.9	8183.9	3656.3	981.3	950.1	1109.2	1272.2	1287.2	1298.1	1300.8	1303.5
70°	8209.7	7135.9	2384.0	782.9	796.5	960.9	1126.8	1141.7	1151.3	1162.1	1167.6
72.5°	6399.2	5246.6	1364.7	633.3	661.9	833.2	982.8	1000.4	1005.8	1026.2	1034.3
75°	3899.6	3085.5	736.7	498.9	543.7	712.3	840.0	860.4	869.9	894.4	897.1
77.5°	1854.0	1336.1	420.0	388.8	437.7	581.8	709.5	732.7	706.8	720.4	709.5
80°	626.6	496.1	265.1	296.3	334.4	454.0	568.2	591.2	536.9	534.1	528.7
82.5°	218.8	201.2	168.5	197.1	216.1	324.8	429.5	459.4	399.6	398.2	379.2
85°	85.6	81.6	93.8	107.4	129.1	199.8	282.7	297.7	246.0	198.4	195.8
87.5°	17.6	19.1	23.1	24.5	39.5	69.3	102.0	125.0	99.2	84.3	77.5
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)