

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: P884959

Luminaire Tested: **NAV-SB6A-735-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27246 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

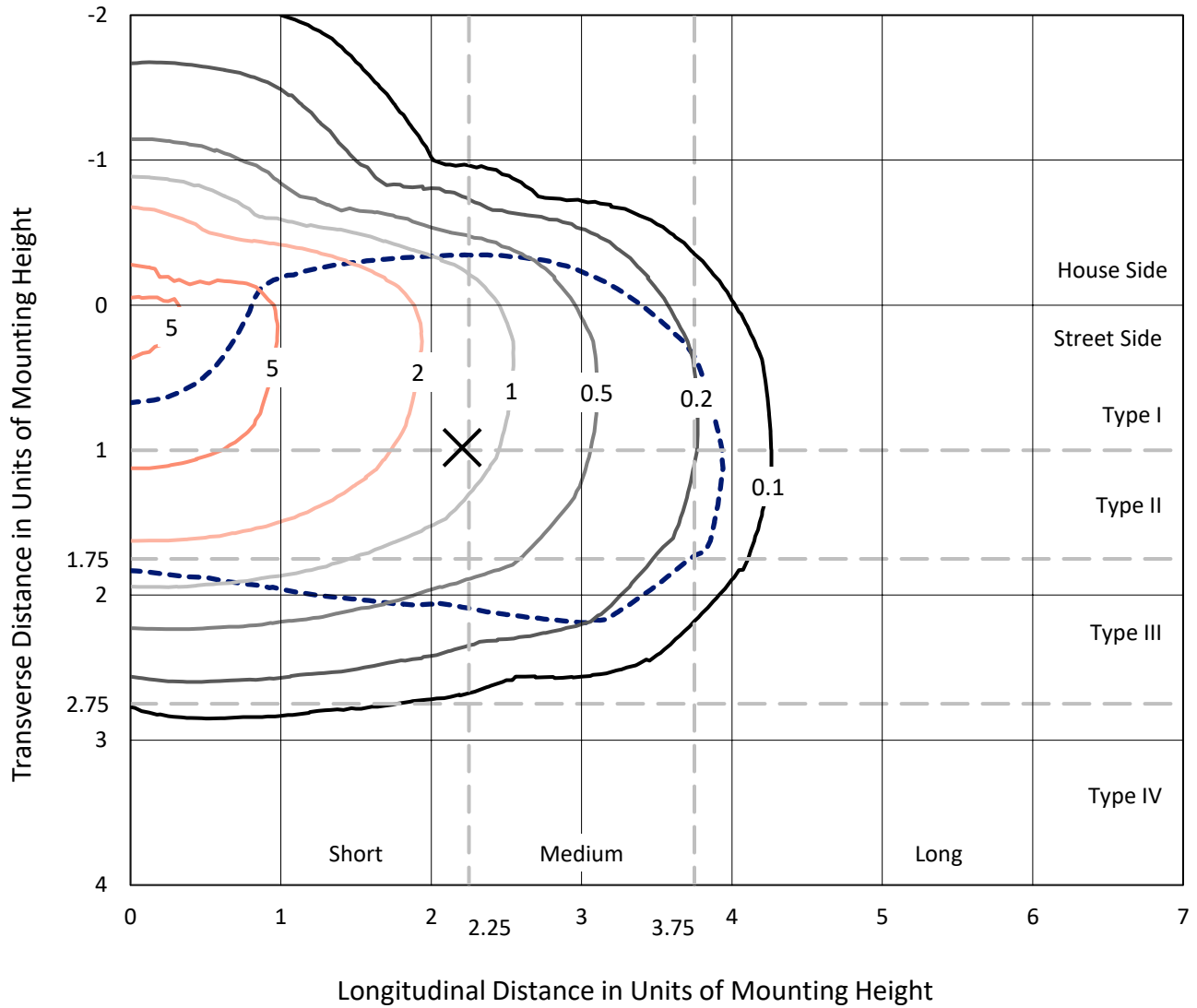
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

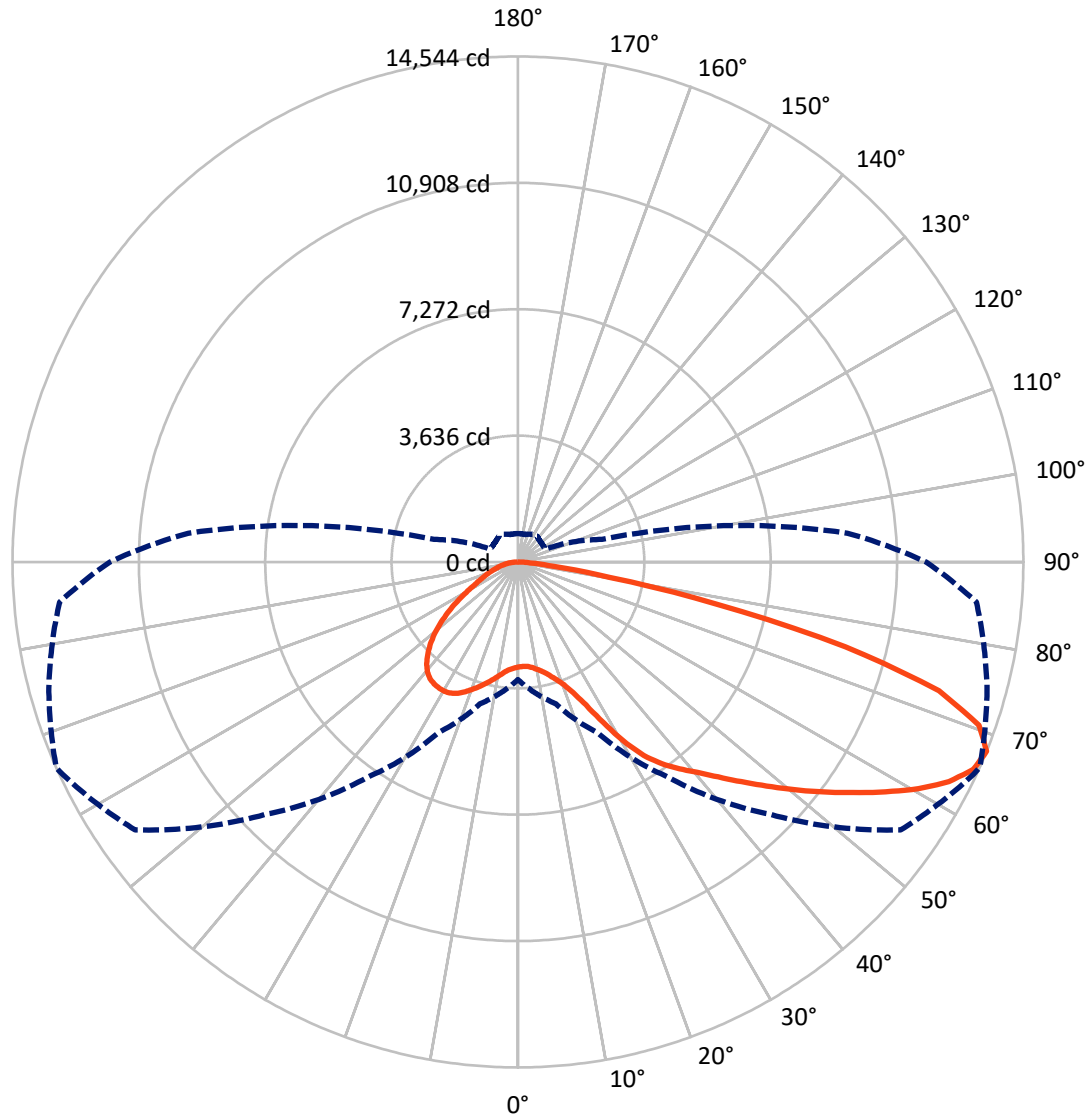
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6774.6	0.0	6774.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20471.4	0.0	20471.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	27246.0	0.0	27246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.1
10°-20°	989.9	3.6
20°-30°	1907.9	7.0
30°-40°	3345.3	12.3
40°-50°	4973.4	18.3
50°-60°	6304.3	23.1
60°-70°	6168.6	22.6
70°-80°	2942.5	10.8
80°-90°	314.5	1.2
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°	27246.0	100.0
0°-180°	27246.0	100.0

Coefficient of Utilization



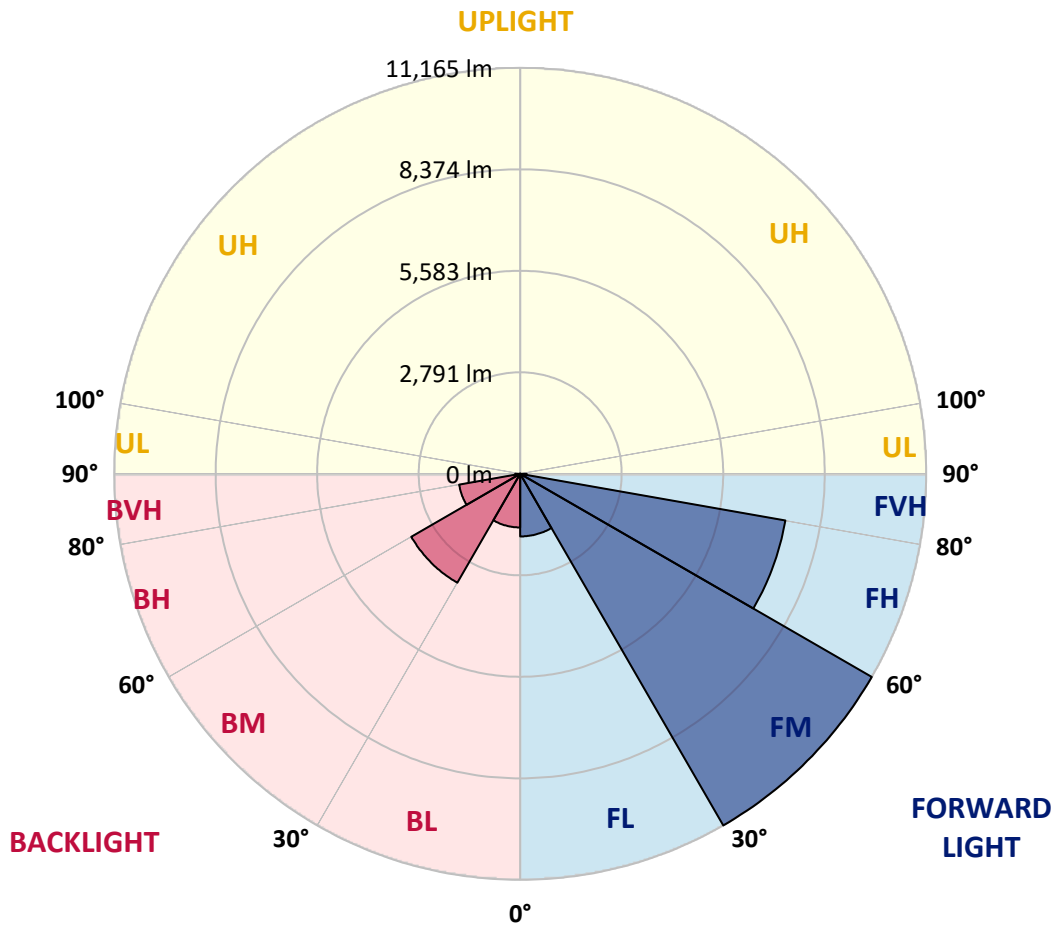
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.7	6.3			
FM (30°-60°)	11165.2	41.0			
FH (60°-80°)	7406.2	27.2			G3/7500
FVH (80°-90°)	178.3	0.7			G2/225
BL (0°-30°)	1475.8	5.4	B3/2500		
BM (30°-60°)	3457.9	12.7	B3/5000		
BH (60°-80°)	1704.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	136.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9
2.5°	2990.4	3007.6	3003.3	2996.2	2994.7	2997.6	3001.9	3006.2	3004.8	3011.9	3023.4
5°	2981.9	2999.0	2997.6	2997.6	3003.3	3014.8	3021.9	3029.1	3021.9	3030.5	3046.3
7.5°	2987.6	3000.5	3006.2	3011.9	3026.2	3047.7	3064.9	3080.6	3072.0	3082.1	3102.1
10°	3060.6	3070.6	3076.3	3076.3	3086.4	3110.7	3127.9	3156.5	3149.3	3165.1	3190.9
12.5°	3193.7	3203.7	3203.7	3198.0	3205.2	3220.9	3226.6	3258.1	3245.3	3271.0	3296.8
15°	3356.9	3377.0	3361.2	3351.2	3354.1	3369.8	3368.4	3392.7	3379.8	3401.3	3424.2
17.5°	3537.3	3563.1	3537.3	3535.9	3530.1	3547.3	3548.7	3570.2	3547.3	3563.1	3578.8
20°	3750.6	3786.4	3764.9	3772.1	3759.2	3766.3	3773.5	3805.0	3769.2	3780.6	3776.4
22.5°	4051.2	4094.2	4071.2	4098.4	4089.9	4084.1	4082.7	4138.5	4082.7	4087.0	4045.5
25°	4489.3	4540.8	4500.7	4537.9	4537.9	4556.5	4578.0	4649.6	4556.5	4529.3	4422.0
27.5°	5136.3	5187.8	5109.1	5132.0	5124.8	5170.7	5147.8	5325.3	5225.1	5180.7	4964.5
30°	5915.0	6006.7	5857.8	5852.1	5844.9	5917.9	5950.8	6068.2	5966.6	5922.2	5661.7
32.5°	6756.8	6852.7	6675.2	6623.6	6596.5	6640.8	6613.6	6708.1	6638.0	6569.3	6247.2
35°	7647.2	7741.7	7572.7	7472.5	7363.7	7270.7	7173.4	7197.7	7131.8	7027.3	6693.8
37.5°	8488.9	8662.1	8483.2	8375.8	8175.4	7993.6	7721.6	7608.5	7547.0	7451.1	7114.7
40°	9346.4	9445.2	9309.2	9217.6	9000.0	8715.1	8279.9	8040.9	7957.8	7864.8	7579.9
42.5°	9977.7	10072.2	9999.2	9936.2	9765.8	9435.2	8872.6	8573.4	8453.1	8348.6	8106.7
45°	10478.7	10548.9	10503.1	10526.0	10453.0	10132.3	9486.7	9144.6	9020.0	8892.6	8702.2
47.5°	10680.6	10755.0	10828.0	10964.0	11088.6	10852.4	10146.6	9763.0	9631.3	9501.0	9313.5
50°	10657.7	10733.5	10945.4	11234.6	11621.1	11542.4	10842.3	10421.5	10299.8	10150.9	9977.7
52.5°	10474.4	10560.3	10832.3	11313.3	11928.9	12059.1	11550.9	11101.4	10986.9	10809.4	10636.2
55°	9993.5	10045.0	10453.0	11134.4	12001.9	12419.9	12245.2	11825.8	11711.3	11463.6	11274.7
57.5°	9101.6	9176.1	9770.1	10652.0	11818.6	12664.7	12855.1	12587.4	12477.1	12120.7	11923.1
60°	7937.8	8056.6	8736.6	9841.7	11352.0	12663.2	13409.1	13336.1	13244.4	12767.7	12561.6
62.5°	6620.8	6758.2	7412.4	8696.5	10536.0	12303.9	13755.5	13963.1	13915.8	13364.7	13101.3
65°	5084.8	5179.2	5830.6	7214.9	9266.2	11532.3	13795.6	14391.1	14399.7	13818.5	13383.3
67.5°	3385.5	3657.5	4223.0	5414.0	7565.6	10271.2	13443.4	14461.2	14544.3	13974.5	13241.6
70°	1652.0	2009.9	2563.9	3518.7	5414.0	8337.2	12522.9	13885.8	14070.4	13519.3	12397.0
72.5°	685.7	801.7	1103.7	1736.4	3107.8	5625.9	10673.4	12325.4	12667.5	11979.0	10422.9
75°	462.4	501.0	631.3	890.4	1415.8	2774.3	7697.3	9190.4	9741.5	9047.2	7395.2
77.5°	356.4	380.8	459.5	622.7	841.7	1049.3	4119.9	5538.6	5823.4	5391.1	3847.9
80°	280.6	299.2	343.6	453.8	596.9	561.2	1404.3	2509.5	2674.1	2243.2	1236.8
82.5°	243.4	250.5	246.2	307.8	396.5	327.8	460.9	926.2	1022.1	741.5	403.7
85°	176.1	196.1	204.7	190.4	210.4	166.1	189.0	327.8	360.7	322.1	227.6
87.5°	71.6	105.9	130.3	123.1	77.3	47.2	58.7	95.9	110.2	120.2	74.4
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°	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9	3021.9
2.5°	3024.8	3034.8	3042.0	3050.6	3056.3	3064.9	3082.1	3092.1	3093.5	3100.7	3099.2
5°	3052.0	3066.3	3082.1	3105.0	3130.7	3152.2	3185.1	3208.0	3216.6	3223.8	3222.4
7.5°	3110.7	3130.7	3159.4	3199.5	3236.7	3265.3	3305.4	3332.6	3359.8	3369.8	3371.2
10°	3198.0	3226.6	3268.2	3322.6	3362.6	3399.9	3441.4	3464.3	3491.5	3502.9	3508.7
12.5°	3306.8	3336.9	3391.3	3467.1	3504.4	3530.1	3544.4	3538.7	3544.4	3554.5	3557.3
15°	3431.4	3464.3	3525.8	3607.4	3633.2	3610.3	3578.8	3550.2	3545.9	3548.7	3558.8
17.5°	3578.8	3603.1	3674.7	3743.4	3724.8	3630.3	3561.6	3515.8	3492.9	3485.8	3495.8
20°	3784.9	3784.9	3843.6	3886.6	3762.0	3601.7	3494.3	3419.9	3372.7	3352.6	3348.3
22.5°	4035.5	4012.6	4049.8	4019.7	3754.9	3521.5	3372.7	3243.8	3172.3	3143.6	3139.3
25°	4353.3	4326.1	4316.0	4129.9	3703.3	3394.1	3152.2	2996.2	2933.2	2917.4	2920.3
27.5°	4832.8	4764.1	4633.8	4190.1	3608.9	3193.7	2894.5	2750.0	2714.2	2715.6	2719.9
30°	5471.3	5333.8	5014.6	4200.1	3454.3	2910.3	2631.1	2528.1	2510.9	2518.0	2542.4
32.5°	6062.5	5932.2	5404.0	4154.3	3216.6	2632.6	2394.9	2326.2	2300.5	2309.0	2320.5
35°	6526.3	6490.5	5764.7	4089.9	2924.6	2372.0	2183.1	2124.4	2074.3	2062.8	2071.4
37.5°	6964.4	6950.0	6035.3	3999.7	2635.4	2187.4	2012.7	1935.4	1862.4	1822.3	1823.8
40°	7445.3	7431.0	6212.8	3860.8	2379.2	2027.0	1859.5	1757.9	1667.7	1594.7	1601.9
42.5°	7986.5	7902.0	6297.3	3661.8	2161.6	1891.0	1735.0	1597.6	1478.8	1411.5	1415.8
45°	8577.7	8387.3	6295.8	3408.5	1978.4	1766.5	1601.9	1407.2	1297.0	1234.0	1231.1
47.5°	9204.7	8851.1	6218.5	3127.9	1800.9	1629.1	1395.7	1246.9	1173.8	1135.2	1126.6
50°	9851.7	9284.8	6086.8	2805.8	1619.1	1473.0	1266.9	1165.3	1109.4	1073.6	1060.8
52.5°	10460.1	9678.5	5927.9	2440.7	1434.4	1321.3	1209.6	1130.9	1072.2	1032.1	1014.9
55°	11025.6	10017.8	5703.2	2067.1	1284.1	1219.7	1182.4	1116.6	1049.3	1002.1	983.5
57.5°	11528.0	10238.2	5315.2	1716.4	1176.7	1149.5	1153.8	1092.3	1014.9	974.9	949.1
60°	11946.0	10400.0	4741.2	1391.4	1089.4	1080.8	1109.4	1046.4	956.3	910.4	890.4
62.5°	12196.6	10397.1	4036.9	1139.5	1014.9	1017.8	1050.7	989.2	897.6	854.6	841.7
65°	12175.1	10142.3	3263.9	974.9	943.4	946.2	989.2	926.2	848.9	823.1	821.7
67.5°	11744.2	9521.0	2503.7	867.5	864.6	877.5	927.6	883.2	818.8	816.0	820.3
70°	10577.5	8231.2	1803.7	781.6	783.0	801.7	867.5	856.0	803.1	808.8	807.4
72.5°	8481.8	6275.8	1211.1	691.4	692.9	722.9	810.2	834.6	787.3	863.2	874.7
75°	5648.8	3913.8	778.7	595.5	596.9	635.6	760.1	793.1	744.4	860.3	867.5
77.5°	2714.2	1759.3	564.0	501.0	501.0	536.8	657.1	710.0	634.2	668.5	612.7
80°	937.6	661.4	443.8	403.7	395.1	419.4	554.0	615.6	546.8	503.9	472.4
82.5°	369.3	343.6	356.4	313.5	284.9	300.6	430.9	508.2	402.3	363.6	362.2
85°	211.9	223.3	251.9	207.6	164.6	184.7	316.4	365.0	303.5	267.7	273.4
87.5°	57.3	78.7	116.0	107.4	74.4	78.7	150.3	201.8	174.6	134.6	138.9
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)