

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: P885099

Luminaire Tested: **NAV-SB6B-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885099
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-SB6B-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27254 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

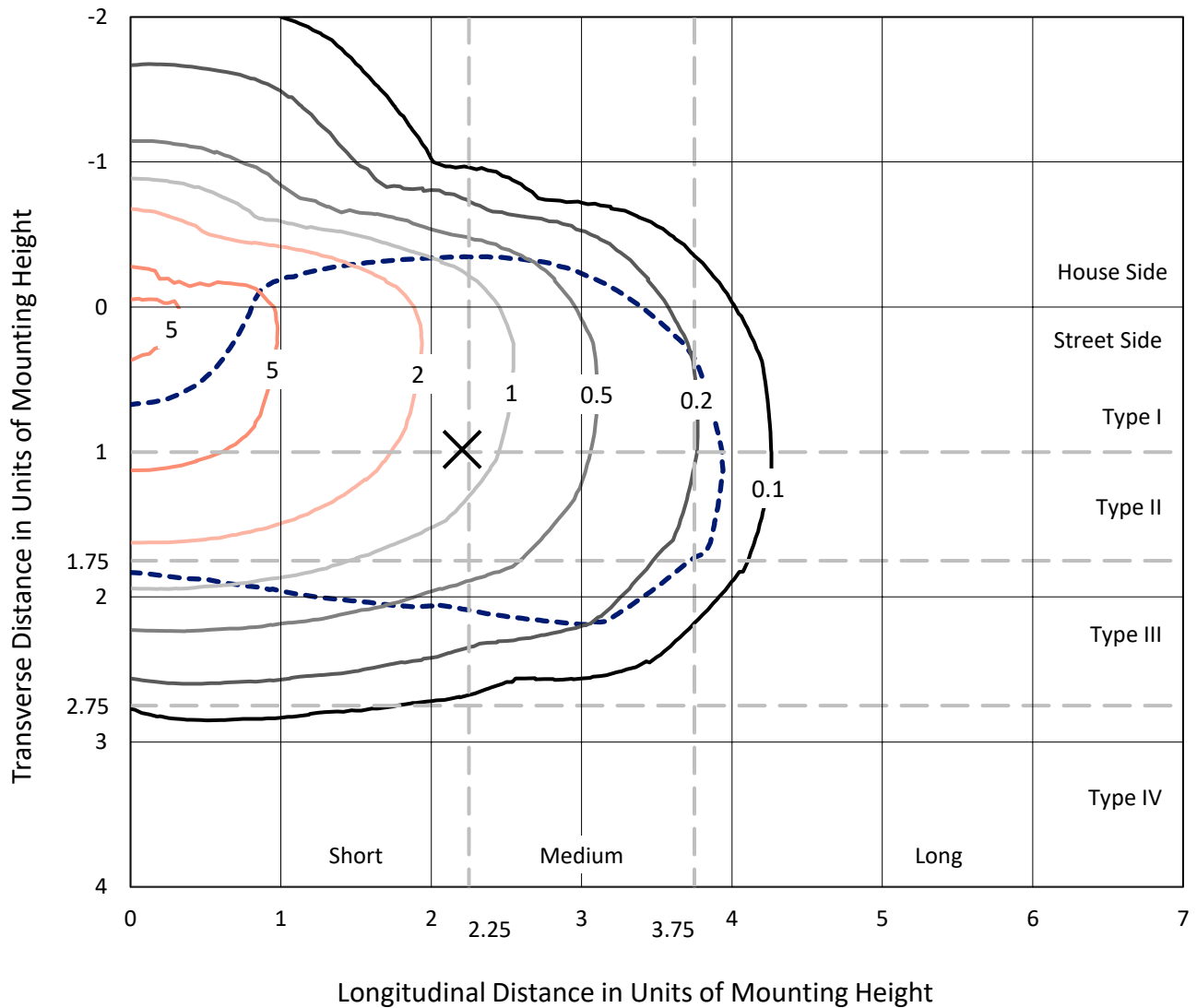
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

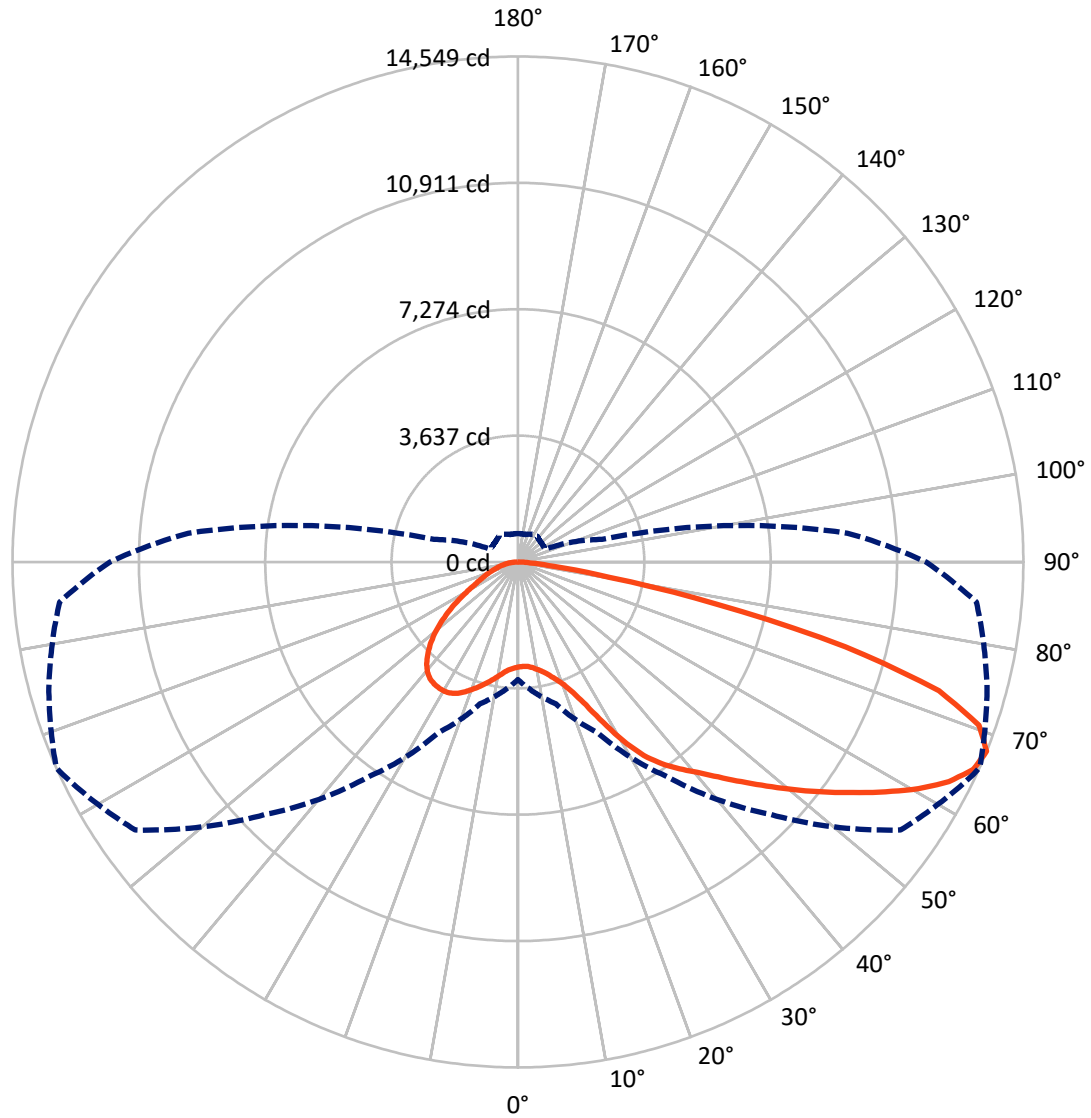
✕ Max cd
 - - - 1/2 Max cd



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	6776.6	0.0	6776.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20477.4	0.0	20477.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	27254.0	0.0	27254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	1.1
10°-20°	990.2	3.6
20°-30°	1908.5	7.0
30°-40°	3346.3	12.3
40°-50°	4974.9	18.3
50°-60°	6306.1	23.1
60°-70°	6170.4	22.6
70°-80°	2943.3	10.8
80°-90°	314.6	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°	27254.0	100.0
0°-180°	27254.0	100.0

Coefficient of Utilization



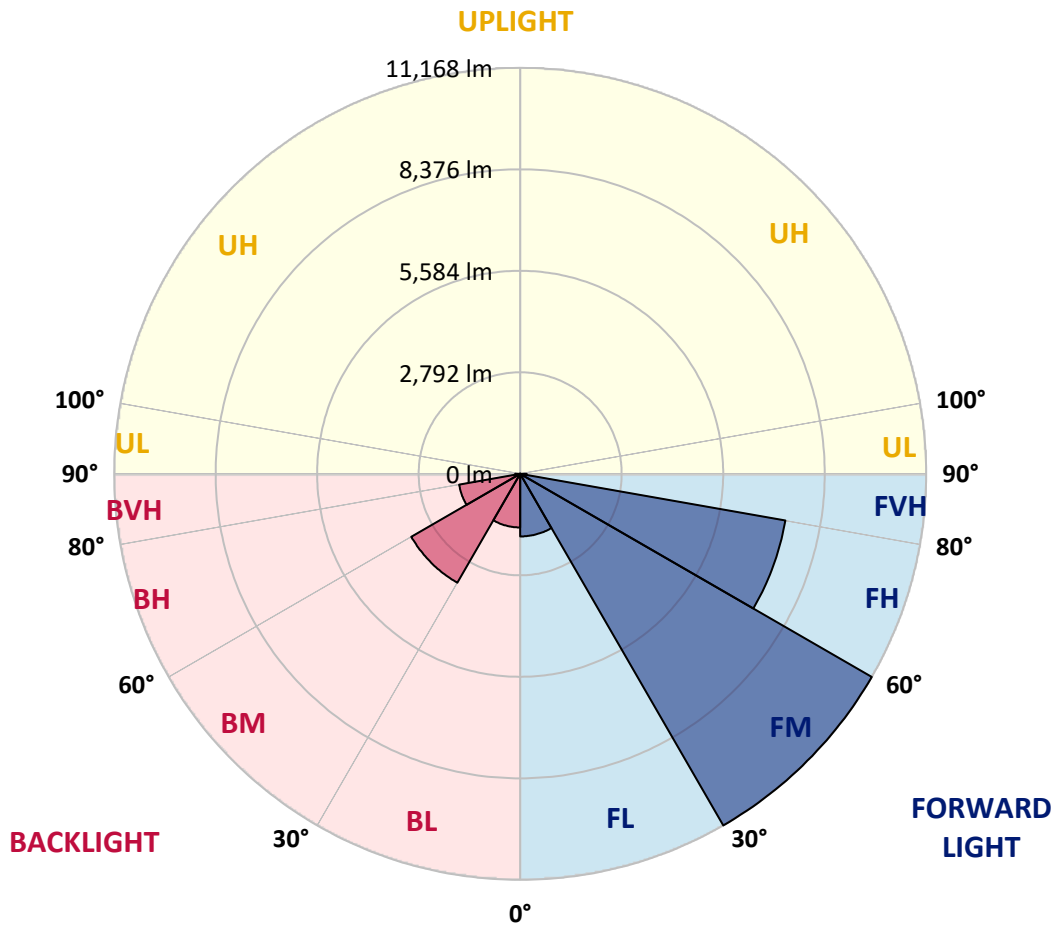
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.2	6.3			
FM (30°-60°)	11168.5	41.0			
FH (60°-80°)	7408.4	27.2			G3/7500
FVH (80°-90°)	178.3	0.7			G2/225
BL (0°-30°)	1476.2	5.4	B3/2500		
BM (30°-60°)	3458.9	12.7	B3/5000		
BH (60°-80°)	1705.4	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°	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8
2.5°	2991.3	3008.5	3004.2	2997.1	2995.6	2998.5	3002.8	3007.1	3005.6	3012.8	3024.3
5°	2982.7	2999.9	2998.5	2998.5	3004.2	3015.7	3022.8	3030.0	3022.8	3031.4	3047.2
7.5°	2988.5	3001.3	3007.1	3012.8	3027.1	3048.6	3065.8	3081.5	3072.9	3083.0	3103.0
10°	3061.5	3071.5	3077.2	3077.2	3087.3	3111.6	3128.8	3157.4	3150.3	3166.0	3191.8
12.5°	3194.7	3204.7	3204.7	3199.0	3206.1	3221.9	3227.6	3259.1	3246.2	3272.0	3297.8
15°	3357.9	3378.0	3362.2	3352.2	3355.0	3370.8	3369.4	3393.7	3380.8	3402.3	3425.2
17.5°	3538.3	3564.1	3538.3	3536.9	3531.2	3548.4	3549.8	3571.3	3548.4	3564.1	3579.9
20°	3751.7	3787.5	3766.0	3773.2	3760.3	3767.4	3774.6	3806.1	3770.3	3781.8	3777.5
22.5°	4052.4	4095.4	4072.4	4099.6	4091.1	4085.3	4083.9	4139.7	4083.9	4088.2	4046.7
25°	4490.6	4542.1	4502.0	4539.3	4539.3	4557.9	4579.3	4650.9	4557.9	4530.7	4423.3
27.5°	5137.8	5189.4	5110.6	5133.5	5126.4	5172.2	5149.3	5326.8	5226.6	5182.2	4966.0
30°	5916.8	6008.4	5859.5	5853.8	5846.6	5919.6	5952.6	6070.0	5968.3	5923.9	5663.3
32.5°	6758.8	6854.7	6677.1	6625.6	6598.4	6642.8	6615.6	6710.1	6639.9	6571.2	6249.0
35°	7649.4	7743.9	7575.0	7474.7	7365.9	7272.8	7175.5	7199.8	7133.9	7029.4	6695.8
37.5°	8491.4	8664.7	8485.7	8378.3	8177.8	7996.0	7723.9	7610.8	7549.2	7453.3	7116.7
40°	9349.1	9448.0	9311.9	9220.3	9002.6	8717.7	8282.4	8043.2	7960.2	7867.1	7582.1
42.5°	9980.6	10075.1	10002.1	9939.1	9768.7	9437.9	8875.2	8575.9	8455.6	8351.1	8109.1
45°	10481.8	10552.0	10506.2	10529.1	10456.0	10135.3	9489.5	9147.2	9022.7	8895.2	8704.8
47.5°	10683.7	10758.2	10831.2	10967.2	11091.8	10855.5	10149.6	9765.8	9634.1	9503.8	9316.2
50°	10660.8	10736.7	10948.6	11237.9	11624.5	11545.7	10845.5	10424.5	10302.8	10153.9	9980.6
52.5°	10477.5	10563.4	10835.5	11316.6	11932.4	12062.7	11554.3	11104.7	10990.2	10812.6	10639.3
55°	9996.4	10047.9	10456.0	11137.6	12005.4	12423.5	12248.8	11829.3	11714.7	11467.0	11278.0
57.5°	9104.3	9178.7	9773.0	10655.1	11822.1	12668.4	12858.8	12591.1	12480.8	12124.2	11926.6
60°	7940.1	8059.0	8739.1	9844.6	11355.3	12667.0	13413.0	13340.0	13248.3	12771.5	12565.3
62.5°	6622.7	6760.2	7414.6	8699.0	10539.1	12307.5	13759.5	13967.2	13919.9	13368.6	13105.1
65°	5086.3	5180.8	5832.3	7217.0	9269.0	11535.7	13799.6	14395.3	14403.9	13822.5	13387.2
67.5°	3386.5	3658.6	4224.2	5415.6	7567.8	10274.2	13447.4	14465.5	14548.5	13978.6	13245.5
70°	1652.5	2010.4	2564.6	3519.7	5415.6	8339.6	12526.6	13889.8	14074.6	13523.3	12400.6
72.5°	685.9	801.9	1104.0	1736.9	3108.7	5627.5	10676.6	12329.0	12671.3	11982.5	10426.0
75°	462.5	501.2	631.5	890.7	1416.2	2775.1	7699.6	9193.1	9744.4	9049.9	7397.4
77.5°	356.6	380.9	459.7	622.9	842.0	1049.6	4121.1	5540.2	5825.1	5392.7	3849.1
80°	280.7	299.3	343.7	453.9	597.1	561.3	1404.7	2510.2	2674.9	2243.9	1237.2
82.5°	243.4	250.6	246.3	307.9	396.6	327.9	461.1	926.5	1022.4	741.7	403.8
85°	176.1	196.2	204.8	190.4	210.5	166.1	189.0	327.9	360.8	322.2	227.7
87.5°	71.6	106.0	130.3	123.1	77.3	47.3	58.7	95.9	110.3	120.3	74.5
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°	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8	3022.8
2.5°	3025.7	3035.7	3042.9	3051.5	3057.2	3065.8	3083.0	3093.0	3094.4	3101.6	3100.2
5°	3052.9	3067.2	3083.0	3105.9	3131.7	3153.1	3186.1	3209.0	3217.6	3224.7	3223.3
7.5°	3111.6	3131.7	3160.3	3200.4	3237.6	3266.3	3306.4	3333.6	3360.8	3370.8	3372.2
10°	3199.0	3227.6	3269.1	3323.5	3363.6	3400.9	3442.4	3465.3	3492.5	3504.0	3509.7
12.5°	3307.8	3337.9	3392.3	3468.2	3505.4	3531.2	3545.5	3539.8	3545.5	3555.5	3558.4
15°	3432.4	3465.3	3526.9	3608.5	3634.3	3611.4	3579.9	3551.2	3546.9	3549.8	3559.8
17.5°	3579.9	3604.2	3675.8	3744.5	3725.9	3631.4	3562.7	3516.8	3493.9	3486.8	3496.8
20°	3786.1	3786.1	3844.8	3887.7	3763.1	3602.8	3495.4	3420.9	3373.7	3353.6	3349.3
22.5°	4036.6	4013.7	4051.0	4020.9	3756.0	3522.6	3373.7	3244.8	3173.2	3144.5	3140.2
25°	4354.5	4327.3	4317.3	4131.2	3704.4	3395.1	3153.1	2997.1	2934.0	2918.3	2921.2
27.5°	4834.2	4765.5	4635.2	4191.3	3609.9	3194.7	2895.4	2750.8	2715.0	2716.4	2720.7
30°	5472.9	5335.4	5016.1	4201.3	3455.3	2911.1	2631.9	2528.8	2511.6	2518.8	2543.1
32.5°	6064.3	5934.0	5405.6	4155.5	3217.6	2633.3	2395.6	2326.9	2301.1	2309.7	2321.2
35°	6528.2	6492.4	5766.4	4091.1	2925.5	2372.7	2183.7	2125.0	2074.9	2063.4	2072.0
37.5°	6966.4	6952.1	6037.1	4000.8	2636.2	2188.0	2013.3	1936.0	1863.0	1822.9	1824.3
40°	7447.5	7433.2	6214.6	3861.9	2379.9	2027.6	1860.1	1758.4	1668.2	1595.2	1602.3
42.5°	7988.8	7904.3	6299.1	3662.9	2162.2	1891.6	1735.5	1598.0	1479.2	1411.9	1416.2
45°	8580.2	8389.7	6297.7	3409.5	1978.9	1767.0	1602.3	1407.6	1297.3	1234.3	1231.5
47.5°	9207.4	8853.7	6220.4	3128.8	1801.4	1629.5	1396.1	1247.2	1174.2	1135.5	1126.9
50°	9854.6	9287.6	6088.6	2806.6	1619.5	1473.5	1267.3	1165.6	1109.8	1074.0	1061.1
52.5°	10463.2	9681.4	5929.7	2441.5	1434.8	1321.7	1210.0	1131.2	1072.5	1032.4	1015.2
55°	11028.8	10020.7	5704.9	2067.7	1284.5	1220.0	1182.8	1116.9	1049.6	1002.4	983.7
57.5°	11531.4	10241.2	5316.8	1716.9	1177.1	1149.8	1154.1	1092.6	1015.2	975.2	949.4
60°	11949.6	10403.1	4742.6	1391.8	1089.7	1081.1	1109.8	1046.7	956.5	910.7	890.7
62.5°	12200.1	10400.2	4038.1	1139.8	1015.2	1018.1	1051.0	989.5	897.8	854.9	842.0
65°	12178.7	10145.3	3264.8	975.2	943.6	946.5	989.5	926.5	849.1	823.4	821.9
67.5°	11747.6	9523.8	2504.5	867.8	864.9	877.8	927.9	883.5	819.1	816.2	820.5
70°	10580.6	8233.7	1804.2	781.8	783.3	801.9	867.8	856.3	803.3	809.0	807.6
72.5°	8484.3	6277.6	1211.4	691.6	693.1	723.1	810.5	834.8	787.6	863.5	874.9
75°	5650.4	3914.9	779.0	595.7	597.1	635.8	760.4	793.3	744.6	860.6	867.8
77.5°	2715.0	1759.9	564.2	501.2	501.2	537.0	657.3	710.2	634.4	668.7	612.9
80°	937.9	661.6	443.9	403.8	395.2	419.6	554.2	615.7	547.0	504.0	472.5
82.5°	369.4	343.7	356.6	313.6	285.0	300.7	431.0	508.3	402.4	363.7	362.3
85°	211.9	223.4	252.0	207.6	164.7	184.7	316.5	365.1	303.6	267.8	273.5
87.5°	57.3	78.8	116.0	107.4	74.5	78.8	150.4	201.9	174.7	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)