

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: P970375

Luminaire Tested: **NAV-SB6B-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34593.7 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 220.4
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

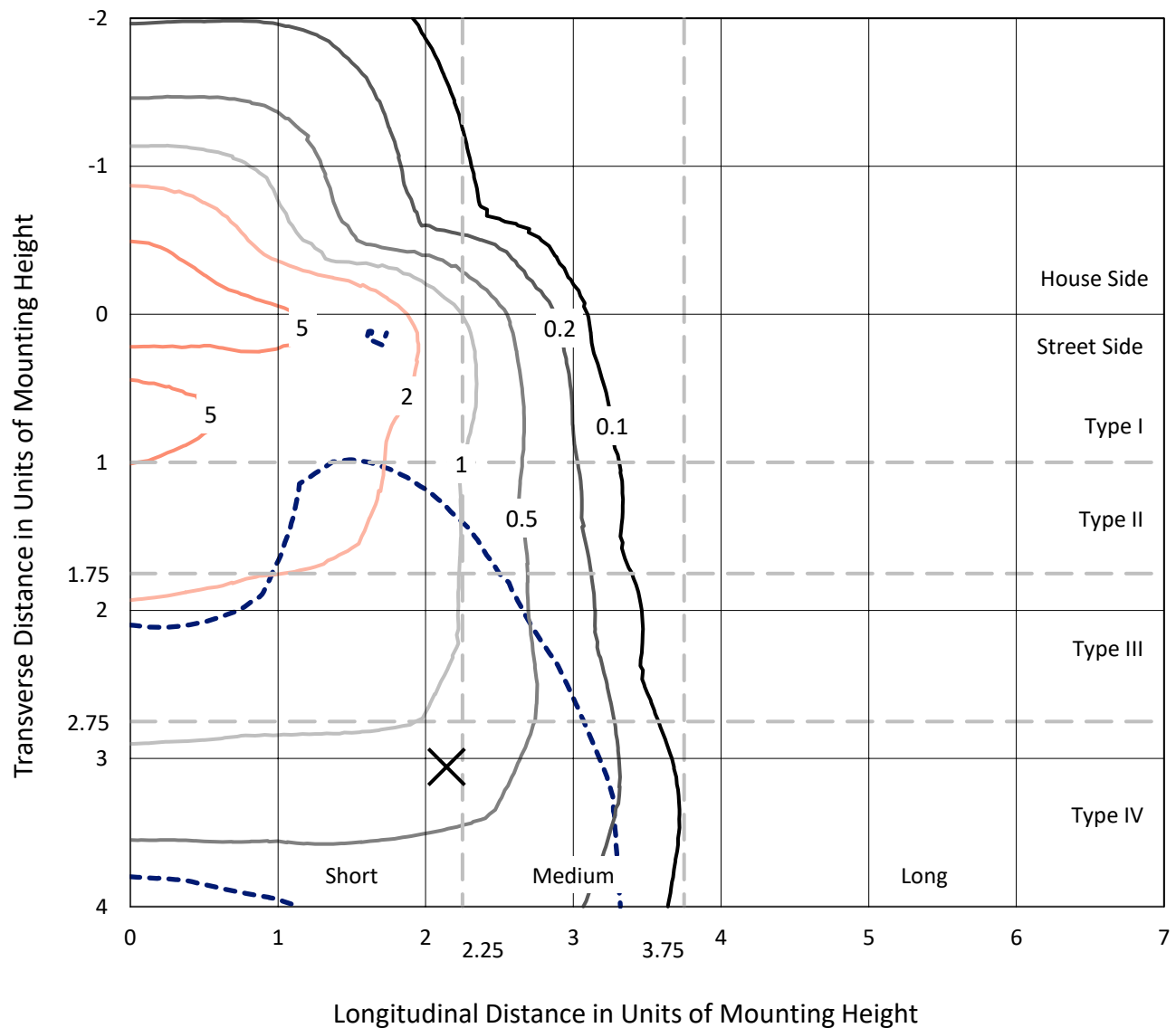


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Iso-Footcandle Lines of Horizontal Illumination

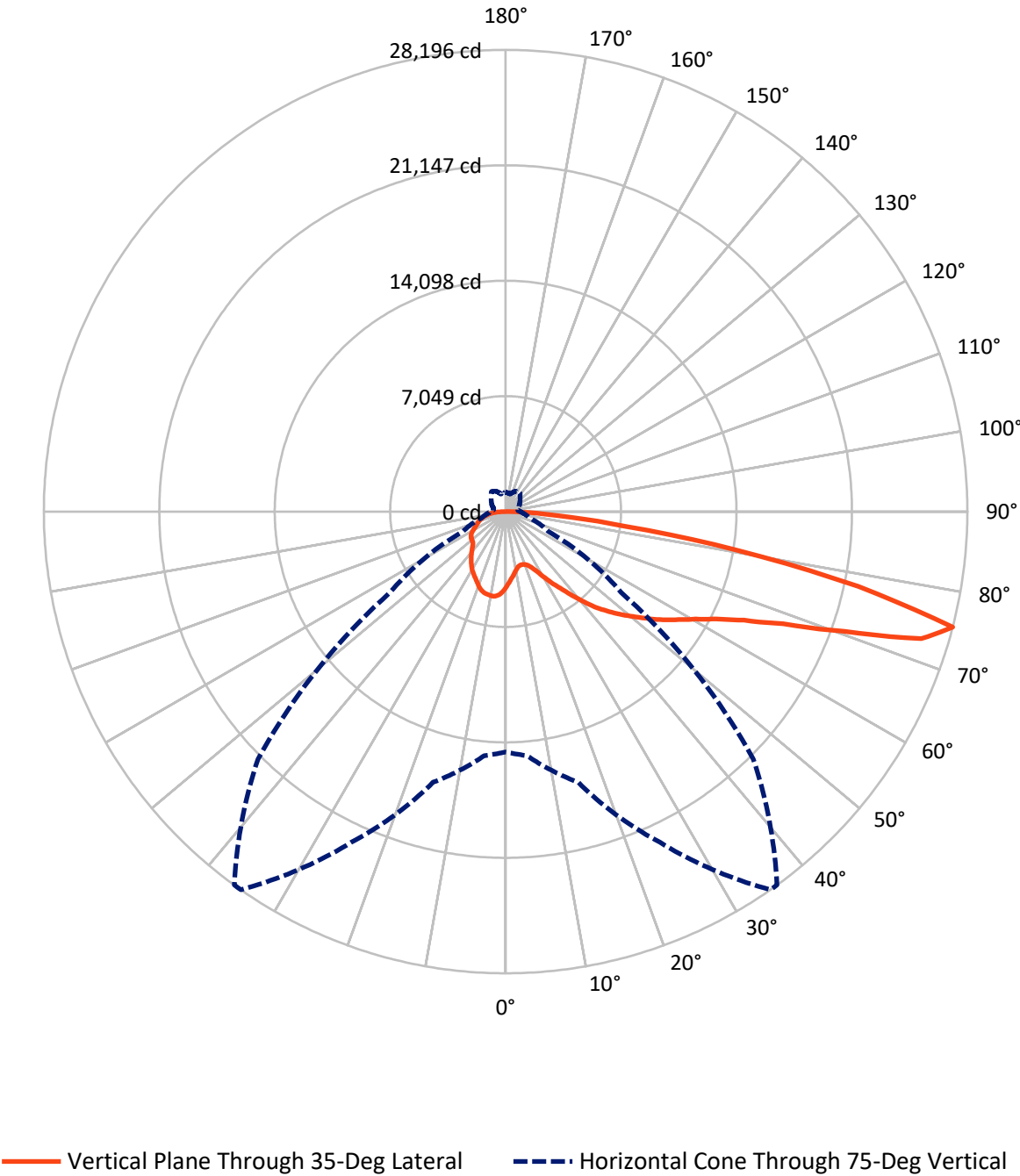
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8232.4	0.0	8232.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	26361.3	0.0	26361.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	34593.7	0.0	34593.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.5	1.3
10°-20°	1258.9	3.6
20°-30°	2114.1	6.1
30°-40°	3285.6	9.5
40°-50°	4876.7	14.1
50°-60°	6732.6	19.5
60°-70°	8168.1	23.6
70°-80°	6750.3	19.5
80°-90°	970.9	2.8
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°	34593.7	100.0
0°-180°	34593.7	100.0

Coefficient of Utilization



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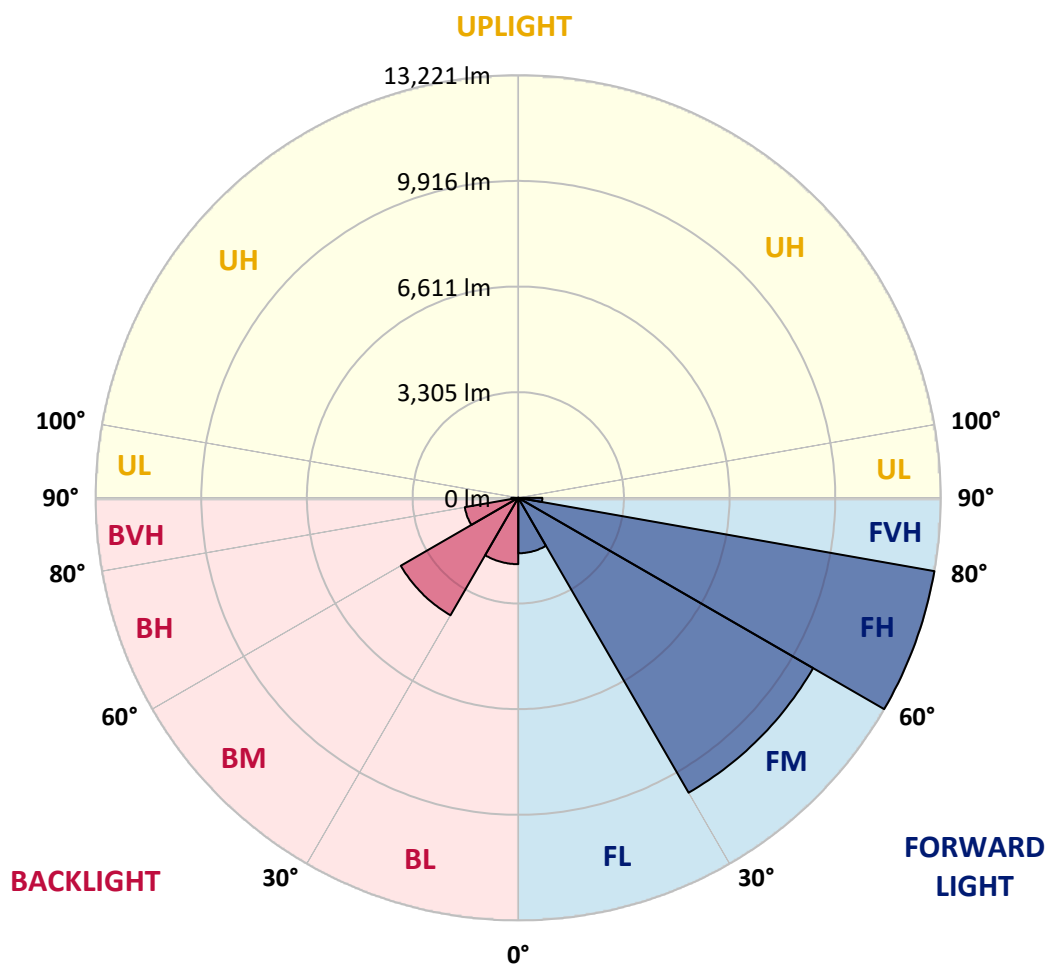
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1734.8	5.0			
FM	(30°-60°)	10653.0	30.8			
FH	(60°-80°)	13221.2	38.2			G5
FVH	(80°-90°)	752.3	2.2			G5
BL	(0°-30°)	2074.7	6.0	B3/2500		
BM	(30°-60°)	4241.9	12.3	B3/5000		
BH	(60°-80°)	1697.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	218.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8
2.5°	4250.8	4277.0	4288.2	4282.6	4310.6	4306.8	4346.2	4394.8	4462.1	4527.5	4623.0
5°	3923.5	3951.6	3975.9	3998.3	4052.5	4069.4	4131.1	4224.6	4348.0	4473.3	4630.4
7.5°	3618.7	3643.0	3680.4	3721.6	3813.2	3830.0	3932.8	4078.8	4250.8	4434.0	4651.0
10°	3370.0	3394.3	3433.5	3480.3	3594.4	3615.0	3745.9	3940.3	4164.8	4396.6	4673.4
12.5°	3263.4	3270.9	3293.3	3340.1	3439.2	3452.2	3596.2	3818.7	4080.6	4368.7	4707.1
15°	3257.8	3272.7	3274.6	3298.9	3381.2	3386.8	3519.5	3740.2	4028.2	4363.0	4757.6
17.5°	3313.8	3325.1	3308.3	3323.3	3392.4	3401.8	3506.5	3702.8	4011.4	4387.3	4843.6
20°	3463.5	3472.8	3422.4	3401.8	3452.2	3459.7	3562.6	3727.1	4028.2	4437.8	4961.4
22.5°	3781.4	3787.0	3663.6	3579.4	3583.2	3586.9	3676.7	3826.2	4093.7	4529.5	5111.1
25°	4277.0	4273.2	4076.8	3914.2	3820.7	3800.1	3859.9	3987.1	4204.0	4651.0	5303.7
27.5°	4856.8	4828.7	4632.3	4389.2	4185.4	4155.5	4142.3	4196.6	4361.2	4811.9	5539.3
30°	5511.2	5485.1	5273.7	4955.9	4673.4	4624.8	4501.4	4473.3	4594.9	5030.6	5866.6
32.5°	6229.3	6212.5	5960.1	5574.9	5197.1	5141.0	4933.4	4858.6	4953.9	5361.7	6322.9
35°	6831.5	6816.6	6607.2	6210.7	5748.7	5679.5	5468.3	5384.1	5432.7	5786.1	6919.5
37.5°	7375.8	7368.3	7188.7	6876.4	6399.6	6315.4	6077.9	6049.9	6040.5	6345.4	7643.2
40°	7880.7	7862.0	7675.0	7510.4	7157.0	7080.3	6870.8	6846.5	6775.5	7033.6	8462.3
42.5°	8439.8	8391.3	8120.0	8043.4	7948.1	7884.4	7759.1	7762.8	7605.8	7809.7	9330.1
45°	8896.2	8868.1	8589.5	8544.6	8647.4	8621.3	8729.7	8757.8	8453.0	8623.1	10231.4
47.5°	9386.1	9360.0	9124.3	9092.6	9371.2	9378.6	9762.0	9771.4	9279.5	9468.4	11134.7
50°	9990.2	9952.8	9719.0	9758.3	10070.6	10098.7	10799.9	10736.4	10040.7	10326.8	12030.5
52.5°	10388.6	10410.9	10360.5	10424.0	10850.4	10876.6	11821.0	11658.3	10794.4	11173.9	12909.5
55°	10682.1	10727.0	10884.1	11030.0	11673.3	11699.5	12784.1	12535.4	11419.0	11959.4	13736.0
57.5°	11059.9	10996.3	11290.0	11574.2	12455.0	12524.2	13721.1	13380.8	11972.5	12636.4	14302.6
60°	11602.3	11557.4	11785.6	12206.3	13330.2	13440.5	14712.2	14141.8	12378.3	13173.1	14413.0
62.5°	12701.9	12589.7	12625.2	12997.3	14433.6	14579.5	15830.6	14805.7	12580.3	13382.6	13822.0
65°	14345.7	14153.1	13973.5	14231.6	15987.6	16131.7	17092.9	15327.5	12505.5	12976.8	12253.1
67.5°	16415.9	16225.1	16004.6	16247.6	18276.7	18390.8	18650.7	15621.1	11916.4	11413.4	9479.6
70°	18123.3	18052.3	18315.9	19316.5	21932.7	21936.5	20648.0	15378.0	10302.5	8092.1	5485.1
72.5°	17897.1	17854.1	19243.6	22336.7	26540.7	26441.6	22538.7	13537.8	6940.1	3650.4	2055.2
75°	14682.3	14961.0	17113.5	22282.5	28195.8	28182.8	21381.1	8606.3	2870.6	1512.9	1062.2
77.5°	7873.2	8314.6	11110.4	16451.5	22011.4	22342.3	15032.0	3010.9	1232.5	968.7	734.9
80°	2567.7	2952.9	4428.4	8376.3	14302.6	14240.9	6442.5	1181.9	843.5	686.3	508.7
82.5°	1090.3	1135.2	1978.6	3955.3	7340.2	7226.1	2051.5	678.9	592.9	469.4	314.2
85°	426.4	476.8	873.3	1829.0	3179.2	3110.1	740.6	336.6	379.7	306.7	187.1
87.5°	140.2	170.1	312.3	626.5	989.3	953.8	181.4	115.9	164.6	140.2	67.3
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°	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8	4609.8
2.5°	4649.1	4679.0	4714.6	4767.0	4811.9	4849.3	4888.5	4912.8	4922.2	4950.2	4948.4
5°	4682.8	4748.2	4836.2	4922.2	5006.3	5056.8	5101.7	5124.2	5144.7	5159.6	5163.4
7.5°	4738.9	4823.0	4961.4	5073.6	5144.7	5185.9	5215.8	5208.3	5215.8	5219.5	5225.1
10°	4787.5	4905.3	5069.9	5176.5	5230.8	5232.6	5225.1	5198.9	5185.9	5187.7	5191.4
12.5°	4845.5	4976.4	5154.0	5243.8	5258.8	5217.7	5185.9	5141.0	5124.2	5116.7	5112.9
15°	4924.0	5073.6	5245.6	5279.4	5242.0	5189.6	5135.4	5062.4	5025.1	4995.1	5004.5
17.5°	5019.4	5183.9	5316.8	5292.5	5212.0	5126.0	5038.1	4927.8	4851.1	4819.3	4821.2
20°	5152.2	5300.0	5371.0	5264.4	5142.8	5011.9	4862.3	4727.7	4656.6	4624.8	4621.1
22.5°	5313.0	5455.2	5423.4	5215.8	5043.7	4834.3	4647.2	4548.1	4512.6	4490.1	4493.9
25°	5505.7	5627.1	5460.8	5144.7	4881.0	4598.7	4454.6	4422.9	4406.0	4389.2	4389.2
27.5°	5756.2	5821.7	5488.8	5040.0	4626.6	4348.0	4295.7	4301.3	4295.7	4267.6	4273.2
30°	6087.3	6074.2	5515.0	4869.8	4334.9	4121.7	4125.5	4149.8	4153.5	4134.8	4144.2
32.5°	6523.0	6390.2	5528.0	4649.1	4056.3	3923.5	3927.3	3953.4	3972.2	3940.3	3955.3
35°	7050.4	6758.6	5507.5	4372.3	3841.2	3734.6	3706.6	3714.1	3719.6	3689.8	3710.3
37.5°	7665.7	7171.9	5415.9	4065.7	3663.6	3549.5	3489.6	3439.2	3409.3	3381.2	3399.9
40°	8340.7	7622.6	5247.6	3766.5	3465.3	3353.1	3263.4	3168.0	3067.0	3029.6	3046.4
42.5°	9047.7	8086.4	5043.7	3480.3	3237.2	3145.5	3050.2	2911.8	2760.3	2683.7	2693.0
45°	9780.8	8561.4	4843.6	3197.9	3003.5	2964.1	2853.8	2687.3	2522.8	2425.6	2418.1
47.5°	10498.9	9010.3	4550.0	2913.7	2784.6	2827.7	2741.6	2588.2	2405.0	2251.6	2234.8
50°	11185.2	9431.0	4069.4	2625.6	2607.0	2786.5	2704.2	2483.5	2274.1	2077.7	2060.9
52.5°	11865.9	9771.4	3454.1	2363.9	2511.6	2775.3	2655.6	2412.4	2156.3	1950.6	1928.1
55°	12443.8	9947.2	2861.3	2139.4	2373.2	2679.9	2597.6	2328.3	1989.8	1771.0	1752.3
57.5°	12772.9	9805.0	2367.5	1918.7	2182.4	2522.8	2498.4	2148.8	1791.6	1623.3	1600.8
60°	12630.8	9229.1	1963.6	1726.1	2001.0	2352.6	2326.4	1971.1	1640.1	1481.1	1458.7
62.5°	11847.3	8131.3	1643.8	1557.8	1836.5	2178.7	2154.3	1834.5	1524.2	1370.8	1346.4
65°	10268.9	6614.6	1395.1	1417.6	1670.0	1969.2	2004.8	1720.5	1432.5	1282.9	1258.6
67.5°	7832.0	4791.3	1200.6	1296.0	1507.4	1763.5	1866.4	1638.3	1355.9	1213.7	1191.3
70°	4464.0	2721.1	1036.1	1178.1	1363.4	1572.8	1759.8	1572.8	1273.6	1155.7	1140.8
72.5°	1692.5	1249.3	895.7	1060.4	1225.0	1411.9	1641.9	1470.0	1178.1	1090.3	1075.3
75°	903.2	761.2	753.7	922.0	1066.0	1254.8	1494.2	1368.9	1107.1	1152.0	1189.4
77.5°	615.3	538.6	630.3	789.1	892.1	1081.0	1337.1	1215.5	959.4	955.6	880.8
80°	426.4	381.5	512.4	635.8	690.0	908.9	1167.0	1043.6	781.7	729.4	697.5
82.5°	256.2	248.8	383.3	475.0	488.1	701.3	966.9	875.2	639.6	557.3	561.1
85°	140.2	147.7	245.0	278.7	284.2	489.9	757.4	677.0	491.8	413.3	417.1
87.5°	39.3	50.5	89.8	110.3	136.5	254.3	450.7	402.1	246.8	172.1	172.1
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)