

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: P969846

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27900.5 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

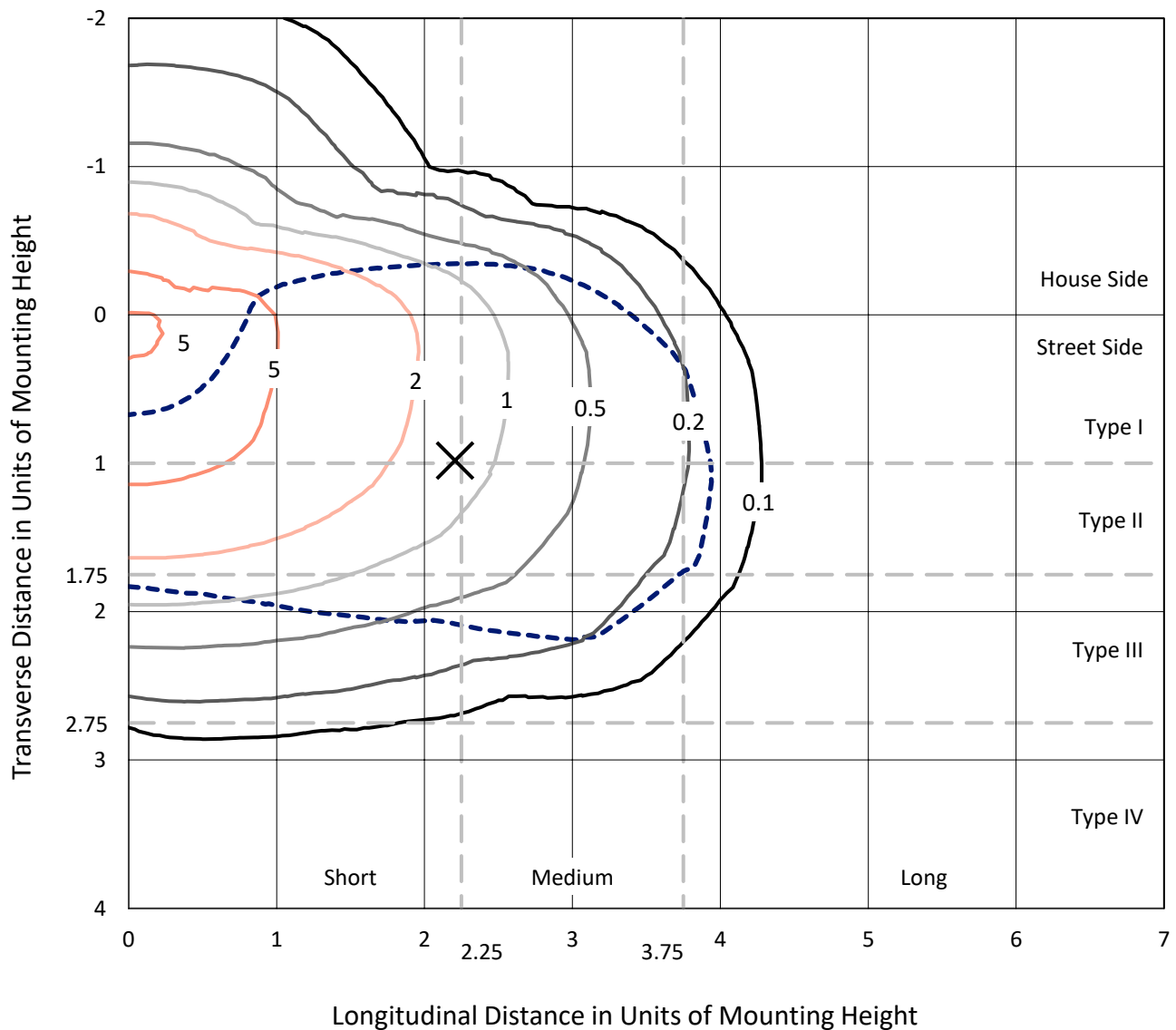
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

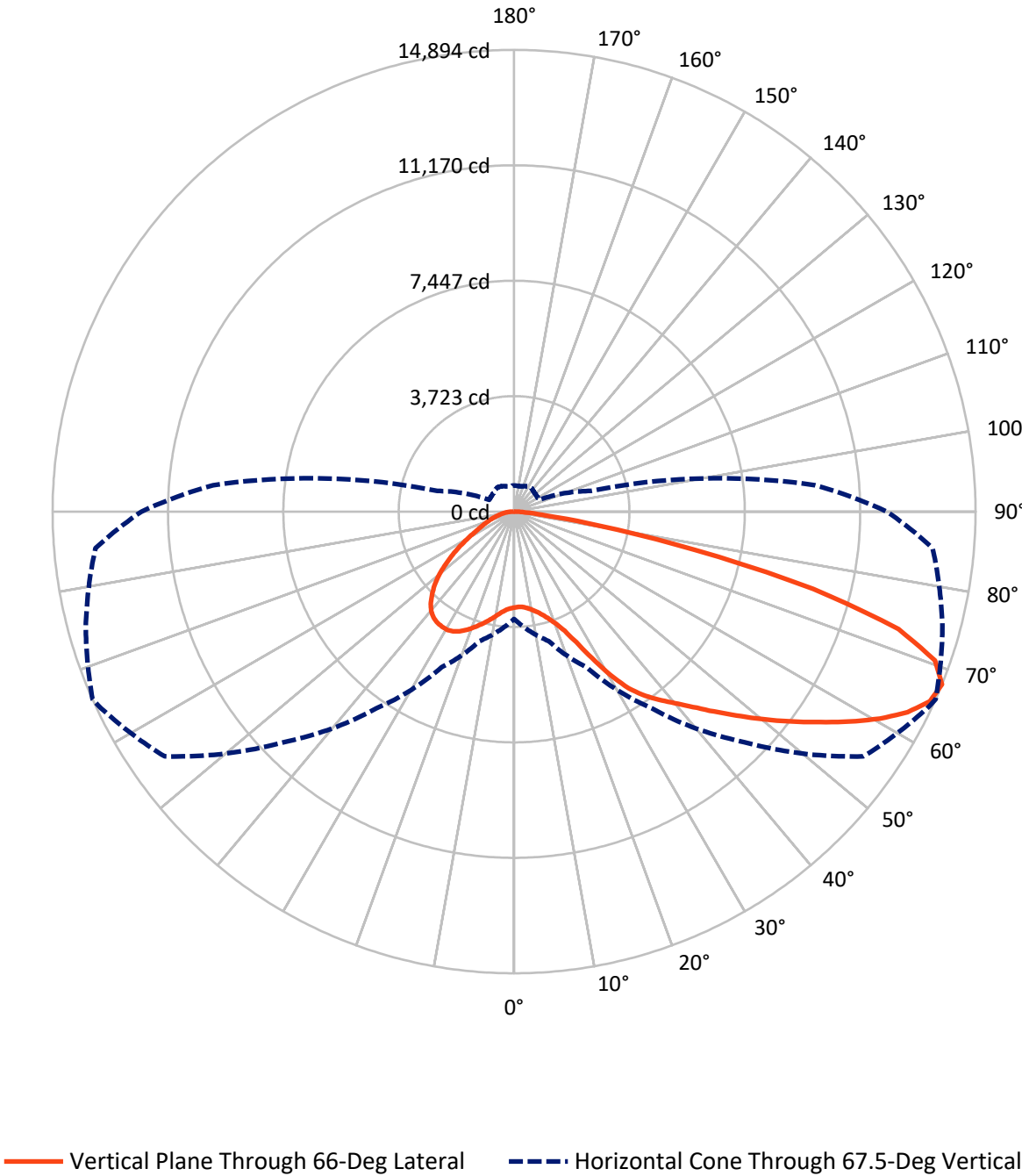
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6937.4	0.0	6937.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20963.1	0.0	20963.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	27900.5	0.0	27900.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	1.1
10°-20°	1013.7	3.6
20°-30°	1953.8	7.0
30°-40°	3425.7	12.3
40°-50°	5092.9	18.3
50°-60°	6455.7	23.1
60°-70°	6316.8	22.6
70°-80°	3013.2	10.8
80°-90°	322.0	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°	27900.5	100.0
0°-180°	27900.5	100.0

Coefficient of Utilization



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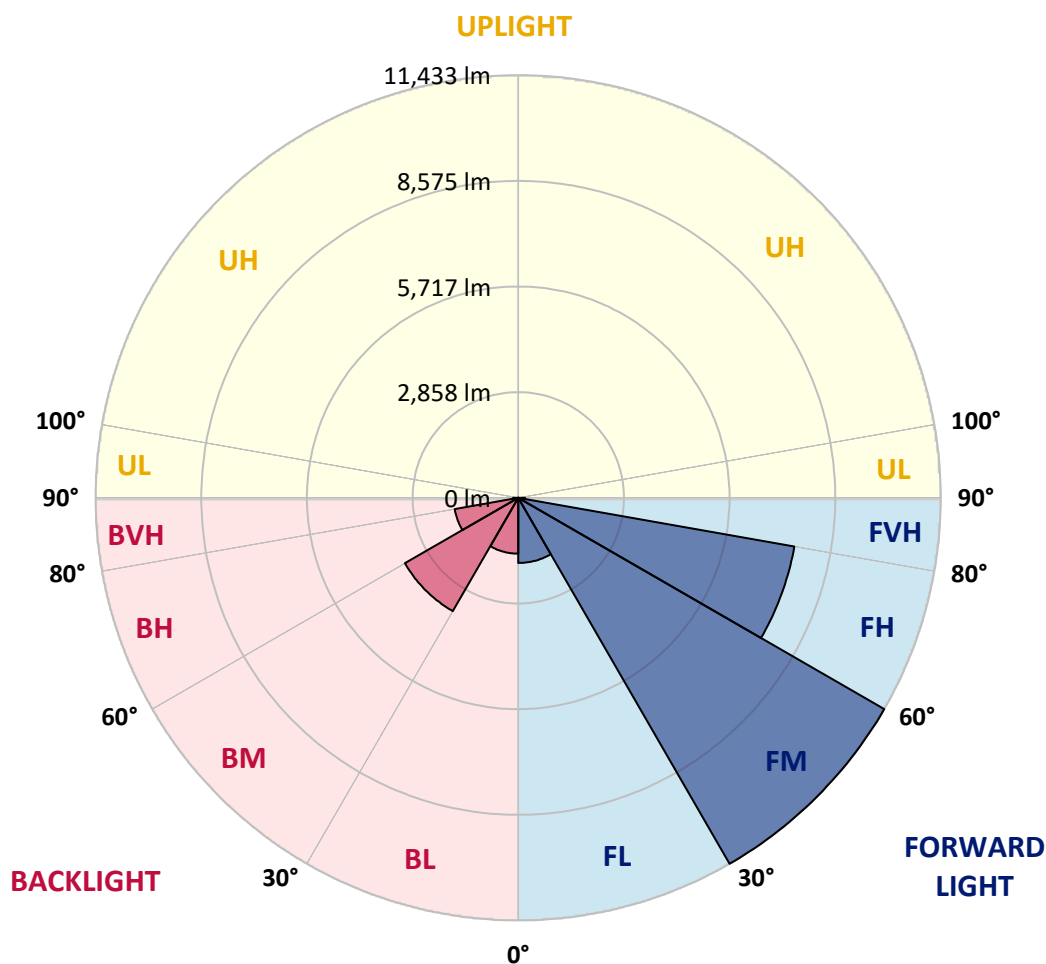
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1763.0	6.3			
FM	(30°-60°)	11433.4	41.0			
FH	(60°-80°)	7584.1	27.2			G4/12000
FVH	(80°-90°)	182.6	0.7			G2/225
BL	(0°-30°)	1511.2	5.4	B3/2500		
BM	(30°-60°)	3540.9	12.7	B3/5000		
BH	(60°-80°)	1745.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	139.5	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6
2.5°	3062.3	3079.9	3075.5	3068.1	3066.7	3069.6	3074.0	3078.4	3076.9	3084.2	3096.0
5°	3053.5	3071.1	3069.6	3069.6	3075.5	3087.2	3094.6	3101.9	3094.6	3103.3	3119.5
7.5°	3059.3	3072.5	3078.4	3084.2	3098.9	3120.9	3138.5	3154.6	3145.8	3156.1	3176.6
10°	3134.1	3144.4	3150.2	3150.2	3160.5	3185.4	3203.0	3232.3	3225.0	3241.2	3267.5
12.5°	3270.5	3280.7	3280.7	3274.9	3282.2	3298.2	3304.2	3336.4	3323.3	3349.6	3375.9
15°	3437.5	3458.0	3442.0	3431.7	3434.7	3450.8	3449.3	3474.2	3461.0	3483.0	3506.4
17.5°	3622.2	3648.7	3622.2	3620.8	3615.0	3632.5	3634.0	3656.0	3632.5	3648.7	3664.8
20°	3840.7	3877.4	3855.3	3862.7	3849.5	3856.8	3864.1	3896.4	3859.7	3871.4	3867.0
22.5°	4148.5	4192.5	4169.1	4196.9	4188.2	4182.2	4180.8	4238.0	4180.8	4185.2	4142.6
25°	4597.1	4649.9	4608.8	4646.9	4646.9	4666.0	4687.9	4761.2	4666.0	4638.1	4528.1
27.5°	5259.7	5312.5	5231.8	5255.3	5248.0	5294.8	5271.4	5453.2	5350.6	5305.1	5083.8
30°	6057.1	6150.9	5998.5	5992.7	5985.3	6060.1	6093.8	6214.0	6109.9	6064.5	5797.7
32.5°	6919.1	7017.4	6835.5	6782.7	6755.0	6800.4	6772.5	6869.2	6797.4	6727.1	6397.2
35°	7830.9	7927.7	7754.6	7652.0	7540.6	7445.4	7345.7	7370.6	7303.1	7196.1	6854.6
37.5°	8692.8	8870.2	8687.0	8577.0	8371.8	8185.6	7907.2	7791.3	7728.3	7630.1	7285.6
40°	9570.9	9672.1	9532.8	9439.0	9216.2	8924.5	8478.8	8234.0	8149.0	8053.7	7762.0
42.5°	10217.4	10314.2	10239.3	10174.9	10000.4	9661.9	9085.7	8779.3	8656.2	8549.2	8301.5
45°	10730.4	10802.3	10755.3	10778.8	10704.1	10375.7	9714.5	9364.2	9236.7	9106.2	8911.2
47.5°	10937.2	11013.4	11088.1	11227.4	11354.9	11113.0	10390.3	9997.5	9862.7	9729.2	9537.2
50°	10913.7	10991.4	11208.4	11504.5	11900.2	11819.6	11102.8	10671.8	10547.2	10394.7	10217.4
52.5°	10726.0	10814.1	11092.6	11585.1	12215.4	12348.8	11828.4	11368.2	11250.8	11069.1	10891.8
55°	10233.5	10286.3	10704.1	11401.8	12290.2	12718.2	12539.3	12109.9	11992.6	11739.0	11545.5
57.5°	9320.2	9396.5	10004.8	10907.8	12102.6	12968.9	13163.9	12889.8	12776.8	12411.8	12209.6
60°	8128.5	8250.1	8946.4	10078.1	11624.6	12967.5	13731.2	13656.4	13562.6	13074.5	12863.3
62.5°	6779.9	6920.6	7590.4	8905.4	10789.0	12599.5	14086.0	14298.4	14250.1	13685.7	13416.0
65°	5206.9	5303.7	5970.6	7388.2	9488.8	11809.3	14127.0	14736.8	14745.5	14150.4	13704.8
67.5°	3466.9	3745.3	4324.5	5544.0	7747.4	10517.9	13766.4	14808.6	14893.7	14310.2	13559.6
70°	1691.7	2058.1	2625.4	3603.2	5544.0	8537.4	12823.8	14219.3	14408.4	13844.1	12694.7
72.5°	702.1	820.9	1130.2	1778.2	3182.5	5761.0	10929.8	12621.4	12971.8	12266.7	10673.3
75°	473.4	513.1	646.5	911.8	1449.8	2840.9	7882.1	9411.1	9975.5	9264.6	7572.9
77.5°	365.0	389.9	470.6	637.7	861.9	1074.5	4218.9	5671.6	5963.3	5520.6	3940.4
80°	287.3	306.4	351.8	464.7	611.3	574.6	1438.1	2569.8	2738.3	2297.1	1266.6
82.5°	249.2	256.6	252.2	315.2	406.1	335.7	472.0	948.4	1046.6	759.3	413.4
85°	180.3	200.8	209.6	195.0	215.5	170.0	193.5	335.7	369.4	329.8	233.1
87.5°	73.3	108.4	133.4	126.1	79.1	48.4	60.1	98.2	112.9	123.1	76.3
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°	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6	3094.6
2.5°	3097.4	3107.7	3115.1	3123.9	3129.7	3138.5	3156.1	3166.3	3167.9	3175.1	3173.7
5°	3125.3	3140.0	3156.1	3179.5	3205.9	3227.9	3261.7	3285.1	3293.9	3301.2	3299.8
7.5°	3185.4	3205.9	3235.3	3276.3	3314.4	3343.8	3384.8	3412.6	3440.5	3450.8	3452.2
10°	3274.9	3304.2	3346.6	3402.4	3443.4	3481.5	3524.1	3547.5	3575.3	3587.1	3592.9
12.5°	3386.3	3417.0	3472.7	3550.4	3588.5	3615.0	3629.6	3623.7	3629.6	3639.9	3642.7
15°	3513.8	3547.5	3610.6	3694.1	3720.4	3697.1	3664.8	3635.5	3631.1	3634.0	3644.3
17.5°	3664.8	3689.7	3763.0	3833.4	3814.3	3717.6	3647.2	3600.3	3576.8	3569.5	3579.7
20°	3875.8	3875.8	3936.0	3980.0	3852.4	3688.3	3578.3	3502.0	3453.6	3433.1	3428.7
22.5°	4132.4	4108.9	4147.0	4116.3	3845.1	3606.2	3453.6	3321.7	3248.4	3219.1	3214.7
25°	4457.8	4429.9	4419.7	4229.2	3792.3	3475.7	3227.9	3068.1	3003.7	2987.6	2990.4
27.5°	4948.9	4878.6	4745.1	4290.8	3695.5	3270.5	2964.1	2816.0	2779.4	2780.8	2785.2
30°	5602.8	5462.0	5135.0	4301.0	3537.3	2980.2	2694.3	2588.8	2571.2	2578.5	2603.5
32.5°	6208.1	6074.8	5533.8	4254.1	3293.9	2695.9	2452.4	2382.1	2355.8	2364.5	2376.3
35°	6683.1	6646.4	5903.2	4188.2	2994.8	2429.0	2235.5	2175.5	2124.1	2112.4	2121.1
37.5°	7131.6	7117.0	6180.2	4095.8	2698.7	2239.9	2061.1	1981.9	1907.1	1866.1	1867.5
40°	7624.2	7609.5	6362.1	3953.5	2436.3	2075.7	1904.2	1800.1	1707.8	1633.0	1640.3
42.5°	8178.3	8091.9	6448.6	3749.8	2213.5	1936.4	1776.6	1636.0	1514.3	1445.4	1449.8
45°	8783.7	8588.8	6447.0	3490.3	2025.9	1808.9	1640.3	1440.9	1328.1	1263.6	1260.6
47.5°	9425.8	9063.7	6367.9	3203.0	1844.1	1668.2	1429.3	1276.8	1202.0	1162.5	1153.6
50°	10088.4	9507.9	6233.0	2873.2	1657.9	1508.4	1297.3	1193.2	1136.1	1099.4	1086.2
52.5°	10711.4	9911.0	6070.4	2499.4	1468.8	1353.0	1238.7	1158.0	1098.0	1056.9	1039.4
55°	11290.5	10258.4	5840.1	2116.7	1314.9	1249.0	1210.8	1143.4	1074.5	1026.1	1007.1
57.5°	11804.9	10484.2	5443.0	1757.7	1205.0	1177.1	1181.5	1118.5	1039.4	998.2	971.9
60°	12233.0	10649.9	4855.1	1424.9	1115.5	1106.8	1136.1	1071.5	979.2	932.3	911.8
62.5°	12489.5	10646.9	4133.8	1166.9	1039.4	1042.2	1075.9	1012.9	919.1	875.1	861.9
65°	12467.6	10385.9	3342.3	998.2	966.1	968.9	1012.9	948.4	869.3	842.9	841.4
67.5°	12026.3	9749.8	2563.8	888.4	885.4	898.6	949.9	904.5	838.4	835.6	840.0
70°	10831.6	8429.0	1847.0	800.4	801.9	820.9	888.4	876.6	822.4	828.2	826.8
72.5°	8685.5	6426.5	1240.1	708.1	709.5	740.3	829.7	854.6	806.3	884.0	895.6
75°	5784.5	4007.7	797.4	609.8	611.3	650.9	778.4	812.1	762.3	881.0	888.4
77.5°	2779.4	1801.6	577.6	513.1	513.1	549.7	672.8	727.1	649.4	684.6	627.4
80°	960.2	677.2	454.4	413.4	404.6	429.5	567.3	630.4	560.0	516.0	483.8
82.5°	378.2	351.8	365.0	321.0	291.7	307.8	441.3	520.4	411.9	372.4	370.8
85°	217.0	228.7	258.0	212.6	168.6	189.1	324.0	373.8	310.8	274.1	280.0
87.5°	58.6	80.7	118.7	110.0	76.3	80.7	154.0	206.7	178.9	137.8	142.2
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)