

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: P971412

Luminaire Tested: **NAV-SB6D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971412
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-SB6D-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 62698.2 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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

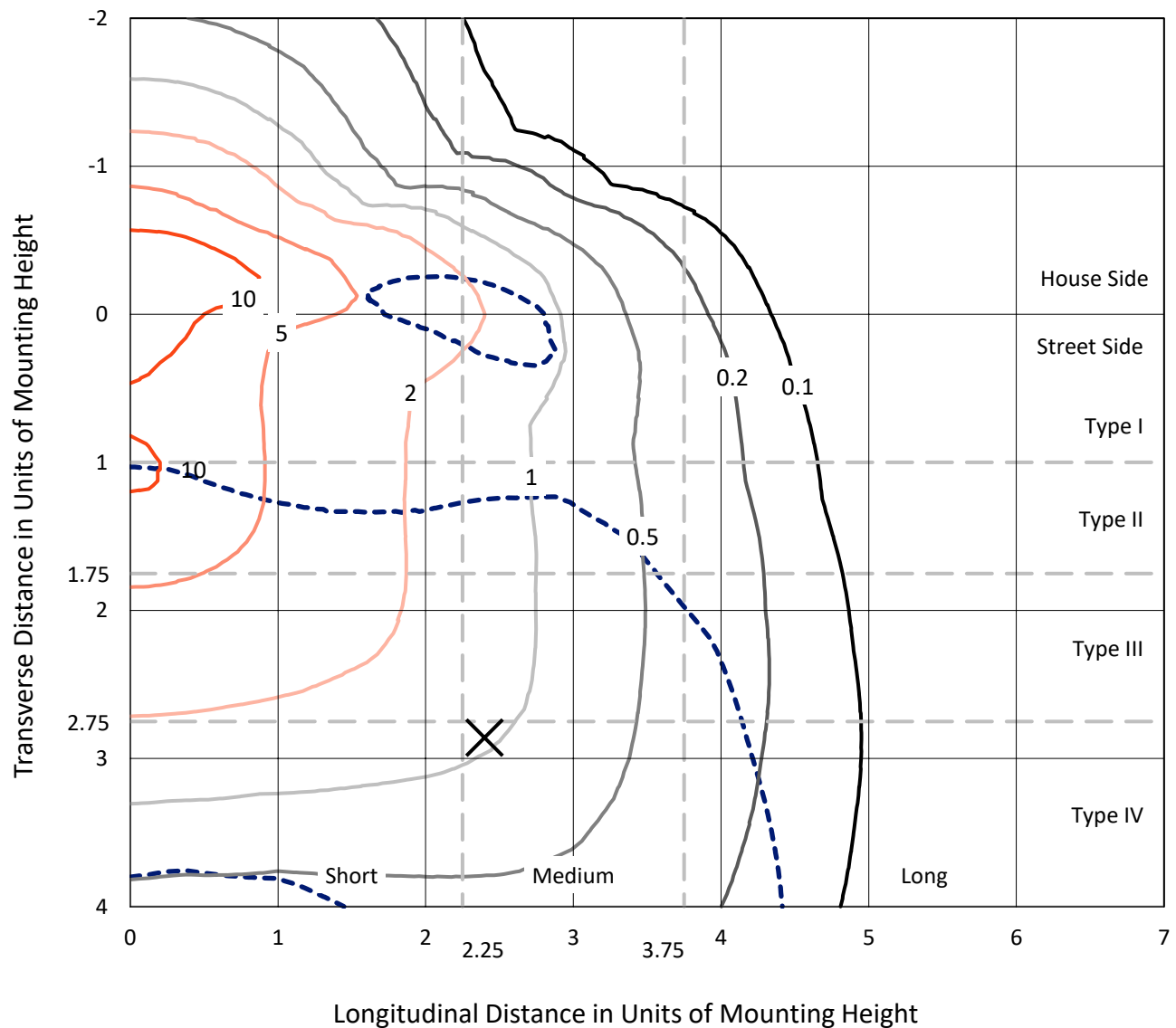


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Iso-Footcandle Lines of Horizontal Illumination

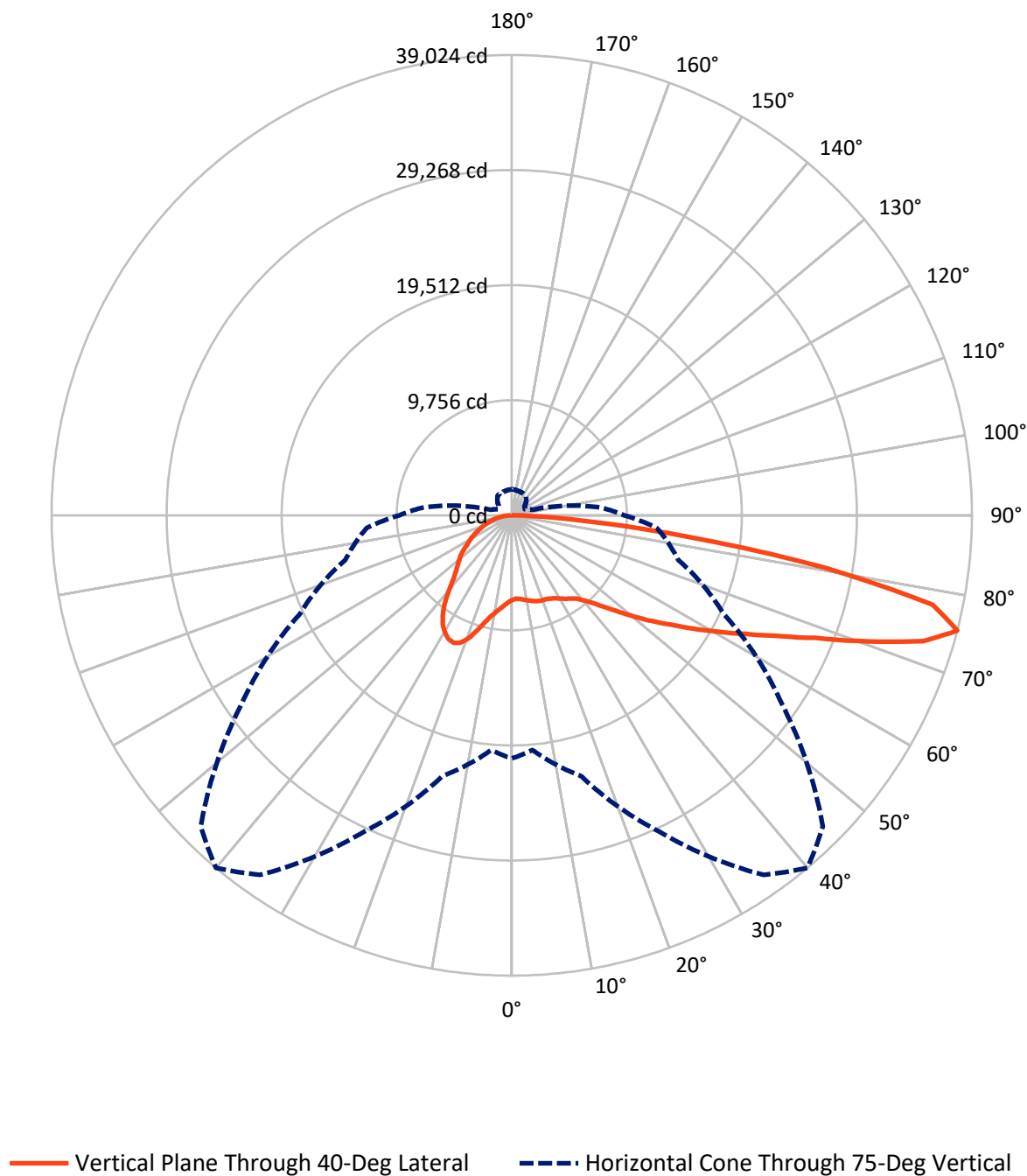
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19426.0	0.0	19426.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	43272.2	0.0	43272.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	62698.2	0.0	62698.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.7	1.1
10°-20°	2402.8	3.8
20°-30°	4387.3	7.0
30°-40°	6222.5	9.9
40°-50°	8402.2	13.4
50°-60°	11303.2	18.0
60°-70°	14346.4	22.9
70°-80°	13020.2	20.8
80°-90°	1897.9	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°	62698.2	100.0
0°-180°	62698.2	100.0

Coefficient of Utilization



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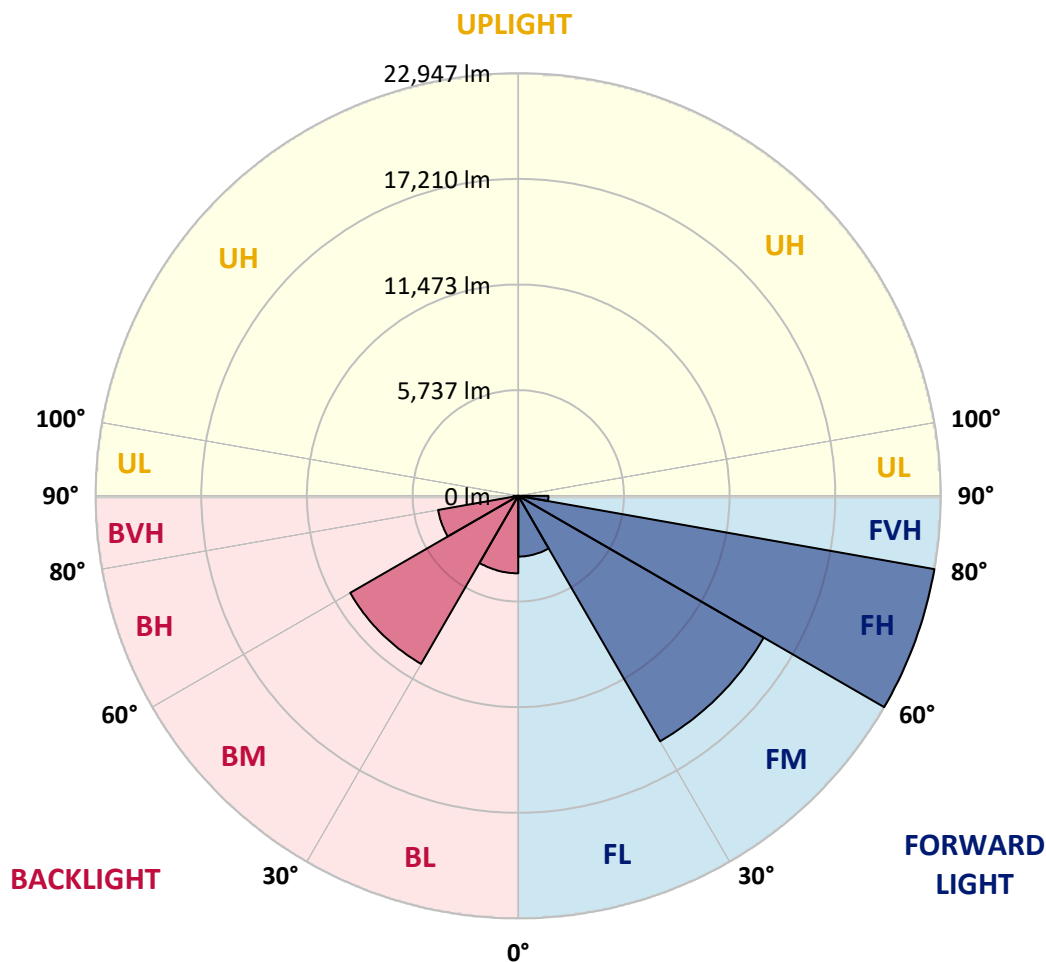
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3298.0	5.3			
FM	(30°-60°)	15391.0	24.5			
FH	(60°-80°)	22946.6	36.6			G5
FVH	(80°-90°)	1636.6	2.6			G5
BL	(0°-30°)	4207.9	6.7	B4/5000		
BM	(30°-60°)	10536.9	16.8	B5		
BH	(60°-80°)	4420.0	7.0	B4/5000		G4/5000
BVH	(80°-90°)	261.3	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7
2.5°	7059.9	7099.8	7089.8	7076.5	7076.5	7079.9	7076.5	7099.8	7123.0	7146.3	7182.9
5°	7133.1	7173.0	7153.0	7136.4	7123.0	7119.8	7109.8	7106.4	7119.8	7149.7	7199.6
7.5°	7276.1	7315.9	7286.0	7256.1	7229.5	7216.2	7202.9	7182.9	7173.0	7189.6	7259.5
10°	7435.7	7475.5	7438.9	7385.7	7342.6	7325.9	7312.7	7292.7	7279.3	7289.4	7365.9
12.5°	7595.2	7635.2	7585.3	7512.1	7455.6	7445.6	7429.0	7422.3	7419.1	7415.7	7492.2
15°	7744.9	7778.2	7715.0	7628.6	7568.7	7552.1	7535.4	7545.4	7562.0	7582.0	7668.4
17.5°	7861.3	7894.6	7801.5	7688.4	7631.8	7625.2	7615.2	7648.4	7695.1	7744.9	7851.3
20°	7967.7	8000.9	7881.2	7728.3	7661.8	7661.8	7665.2	7735.0	7801.5	7874.7	8020.9
22.5°	8117.4	8143.9	7997.7	7788.2	7691.7	7698.4	7725.0	7794.8	7877.9	7977.7	8180.5
25°	8340.2	8360.1	8180.5	7901.2	7791.4	7811.4	7834.7	7868.0	7947.7	8064.2	8336.8
27.5°	8699.3	8716.0	8479.8	8100.8	7934.5	7967.7	8000.9	7977.7	8014.3	8114.0	8463.2
30°	9204.8	9214.8	8915.4	8413.3	8177.2	8193.8	8200.5	8104.1	8034.3	8114.0	8553.0
32.5°	9803.4	9800.0	9444.2	8792.4	8453.3	8436.6	8380.1	8190.6	8027.6	8097.4	8632.9
35°	10731.1	10694.5	10235.6	9324.5	8765.8	8662.8	8529.7	8286.9	8060.8	8080.8	8702.7
37.5°	12267.5	12154.4	11519.3	10195.8	9231.4	8968.6	8772.5	8443.2	8134.0	8074.1	8785.8
40°	14000.1	13857.1	13158.7	11389.6	9929.7	9507.4	9191.5	8666.1	8253.7	8104.1	8908.8
42.5°	16055.2	15852.3	15100.8	12796.2	10814.3	10202.4	9726.8	8948.8	8430.0	8200.5	9075.1
45°	18579.1	18309.8	17245.7	14382.5	11928.3	11113.6	10478.5	9377.7	8699.3	8386.8	9324.5
47.5°	21129.8	21196.3	19683.2	16198.2	13265.1	12237.6	11419.5	10022.9	9091.8	8686.1	9726.8
50°	23840.0	23886.6	22107.4	18210.0	14781.5	13507.9	12477.0	10744.5	9637.0	9111.6	10328.8
52.5°	25954.9	25961.6	24308.9	20315.1	16361.2	14904.5	13617.6	11569.2	10269.0	9677.0	11130.2
55°	27278.5	27261.8	25851.9	22307.0	18176.8	16371.1	14881.3	12506.9	11040.4	10342.0	12137.8
57.5°	28239.6	28189.7	26916.0	24019.5	20112.2	18103.7	16311.2	13571.1	11951.6	11133.6	13464.7
60°	28605.4	28575.5	27637.7	25499.4	22147.4	20019.1	17960.7	14761.5	12985.8	12067.9	15170.6
62.5°	28745.0	28801.6	28346.0	26932.7	24325.5	22140.7	19773.0	16184.9	14149.7	13125.4	16969.7
65°	29237.2	29340.2	29247.1	28808.2	26786.3	24624.8	22177.3	17877.5	15420.0	14259.4	18848.5
67.5°	30211.6	30314.6	30354.6	31052.9	29792.5	27720.8	25176.9	19985.9	16906.5	15436.6	20261.8
70°	30188.2	30158.3	30863.3	32838.6	33556.9	32007.3	29220.6	22579.6	18679.0	16414.4	20441.4
72.5°	27478.0	27238.6	28904.6	32818.7	36689.5	36483.2	34158.8	25925.0	20208.6	16534.1	17737.8
75°	20614.3	19975.8	22918.9	29576.4	37211.6	39023.9	37298.0	28000.1	19846.2	14608.6	12344.0
77.5°	8815.7	8173.9	11642.4	21894.6	33304.2	36480.0	34418.2	24428.6	15842.3	9660.4	6062.3
80°	2307.9	2304.5	3518.3	9926.4	22649.5	26939.3	23633.8	15775.9	9051.8	3451.8	1672.7
82.5°	954.4	931.1	1293.6	3860.9	11067.0	15117.4	12337.3	7036.6	3268.9	934.5	555.3
85°	355.8	352.5	628.5	1333.5	3904.0	6235.2	4512.6	1799.1	814.8	455.6	249.4
87.5°	99.7	96.5	136.3	462.3	951.1	1443.2	771.5	295.9	229.5	179.6	73.2
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°	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7	7169.7
2.5°	7192.9	7209.5	7239.5	7262.7	7292.7	7325.9	7372.5	7402.4	7432.4	7452.3	7438.9
5°	7222.9	7259.5	7335.9	7412.4	7502.2	7585.3	7681.8	7751.6	7808.1	7824.7	7831.4
7.5°	7289.4	7349.2	7478.9	7608.6	7751.6	7887.9	8027.6	8147.3	8243.8	8280.4	8283.6
10°	7405.7	7485.6	7668.4	7851.3	8040.9	8250.4	8430.0	8602.9	8739.3	8795.7	8799.1
12.5°	7552.1	7651.8	7891.3	8143.9	8406.6	8696.0	8928.8	9141.6	9311.2	9387.7	9387.7
15°	7741.6	7871.3	8177.2	8516.4	8902.1	9304.5	9600.6	9836.6	10026.1	10119.3	10112.6
17.5°	7947.7	8120.7	8506.5	9018.6	9570.6	10099.3	10445.2	10618.1	10814.3	10904.1	10900.8
20°	8147.3	8360.1	8912.2	9657.0	10392.0	10954.0	11233.3	11279.8	11293.1	11303.1	11329.7
22.5°	8353.4	8639.4	9421.0	10461.8	11249.9	11639.0	11679.0	11479.4	11200.1	11070.3	11106.9
25°	8579.6	8958.7	10086.0	11349.7	11988.2	12034.7	11728.8	11243.3	10714.5	10471.8	10508.4
27.5°	8799.1	9327.8	10884.2	12197.7	12520.3	12111.2	11452.7	10764.4	10126.0	9869.8	9899.8
30°	9018.6	9750.1	11765.4	12939.3	12763.0	11921.7	11017.1	10249.0	9607.1	9337.9	9367.8
32.5°	9241.4	10242.3	12779.6	13474.6	12719.7	11519.3	10475.1	9670.4	9105.1	8822.4	8859.0
35°	9494.1	10847.6	13740.6	13767.3	12430.5	10927.3	9760.2	8978.7	8486.5	8260.4	8310.3
37.5°	9823.3	11615.7	14588.6	13840.5	11925.0	10059.5	8872.2	8160.6	7754.9	7651.8	7725.0
40°	10232.4	12540.2	15237.1	13724.0	11176.8	9005.2	7901.2	7332.5	7103.1	7126.4	7206.2
42.5°	10764.4	13574.4	15692.7	13424.7	10135.9	7917.8	7050.0	6797.2	6907.0	7000.0	7086.4
45°	11456.1	14648.5	15975.3	12915.9	8958.7	6996.8	6547.8	6607.7	6690.8	6700.7	6767.3
47.5°	12340.7	15735.9	16161.6	12147.8	7758.2	6348.2	6228.5	6241.8	6225.2	6155.3	6208.5
50°	13444.7	16793.4	16327.8	11130.2	6737.3	5942.5	5782.9	5736.4	5506.9	5280.8	5310.7
52.5°	14701.7	17764.5	16397.6	9866.5	5942.5	5603.4	5343.9	5051.3	4622.3	4552.5	4575.8
55°	16098.4	18662.3	16218.2	8313.6	5274.1	5167.7	4775.3	4422.8	4376.2	4316.4	4326.4
57.5°	17767.8	19630.0	15852.3	6581.0	4589.1	4658.9	4276.5	4316.4	4233.2	4140.2	4123.6
60°	19593.4	20631.0	15210.5	5001.5	3880.8	4023.7	4146.8	4143.5	4120.2	4043.7	4017.1
62.5°	21236.2	21289.4	13946.9	3830.9	3258.9	3531.6	3867.4	3864.1	3844.2	3801.0	3784.3
65°	22213.9	21189.6	11838.5	3016.2	2746.8	3125.9	3488.4	3514.9	3518.3	3514.9	3514.9
67.5°	22041.0	20022.5	8945.4	2401.0	2324.5	2713.6	3112.6	3149.2	3175.8	3182.4	3189.1
70°	20085.6	17458.5	5832.8	1915.4	1948.7	2351.0	2756.7	2793.3	2816.6	2843.2	2856.6
72.5°	15656.2	12836.2	3338.7	1549.7	1619.5	2038.5	2404.2	2447.5	2460.8	2510.7	2530.6
75°	9540.7	7548.7	1802.4	1220.5	1330.1	1742.5	2055.1	2105.0	2128.3	2188.2	2194.8
77.5°	4535.9	3268.9	1027.6	951.1	1070.8	1423.3	1735.8	1792.4	1729.2	1762.5	1735.8
80°	1533.0	1213.8	648.4	725.0	818.1	1110.7	1390.0	1446.6	1313.5	1306.9	1293.6
82.5°	535.4	492.2	412.4	482.2	528.7	794.8	1050.8	1124.0	977.6	974.4	927.8
85°	209.5	199.6	229.5	262.7	315.9	488.8	691.7	728.3	601.9	485.5	478.9
87.5°	43.3	46.5	56.6	59.9	96.5	169.6	249.4	306.0	242.7	206.1	189.5
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)