

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: P971598

Luminaire Tested: **NAV-SB6D-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971598
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-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 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: 58154.4 lumens
Efficiency: N/A
Efficacy: 132.1 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



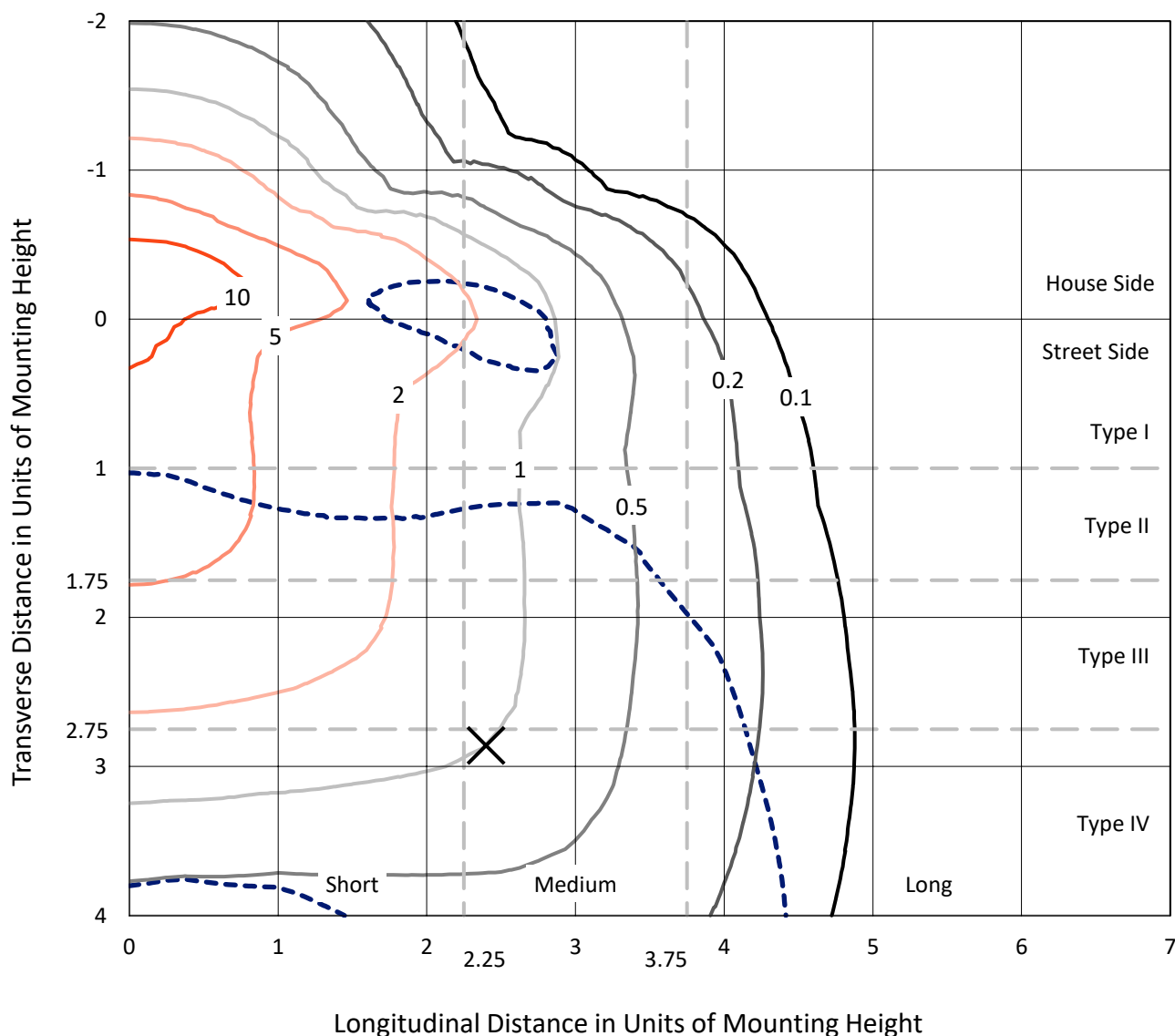
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

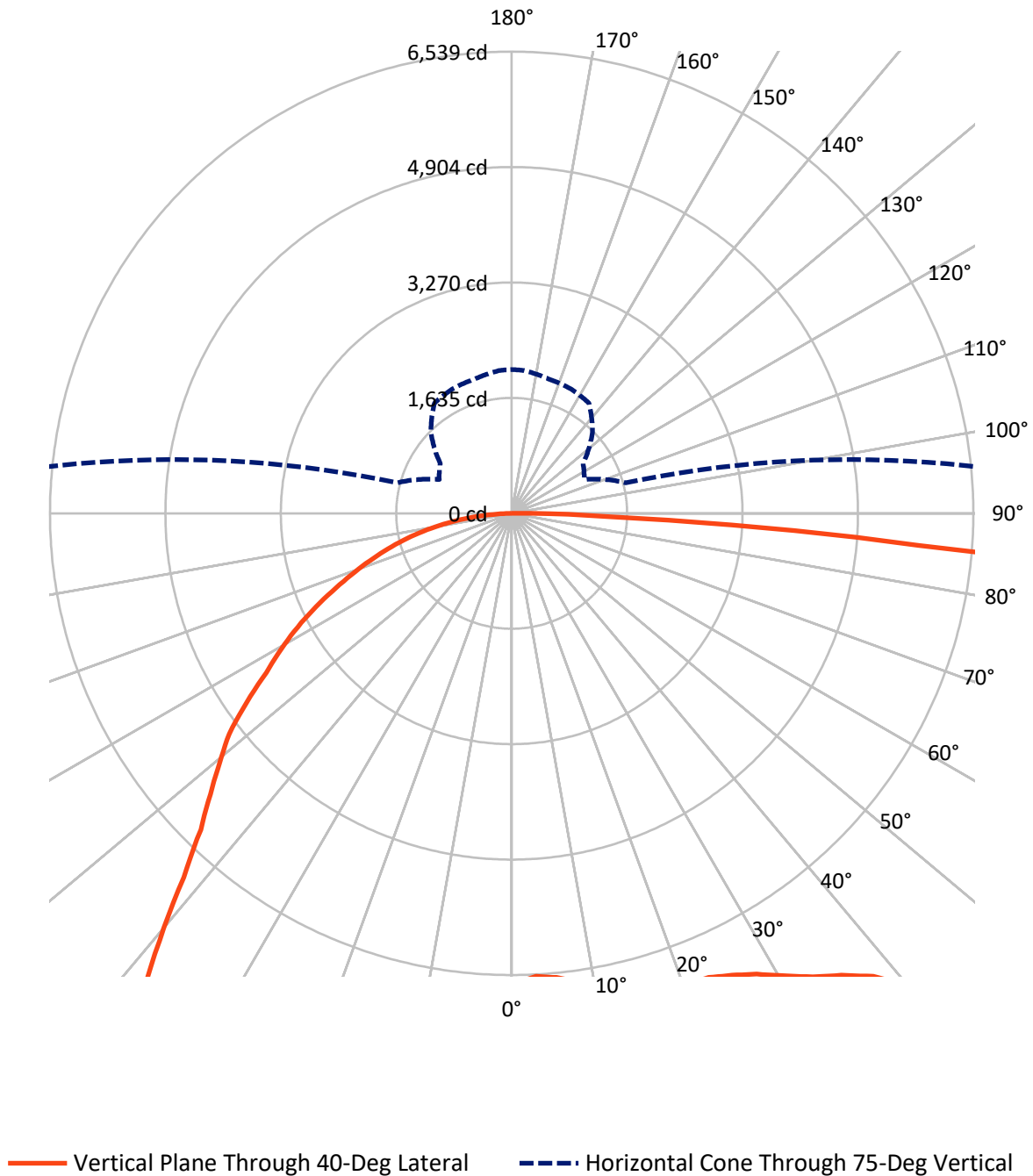
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	18018.2	0.0	18018.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	40136.2	0.0	40136.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	58154.4	0.0	58154.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.8	1.1
10°-20°	2228.7	3.8
20°-30°	4069.4	7.0
30°-40°	5771.5	9.9
40°-50°	7793.3	13.4
50°-60°	10484.1	18.0
60°-70°	13306.7	22.9
70°-80°	12076.6	20.8
80°-90°	1760.4	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°	58154.4	100.0
0°-180°	58154.4	100.0

Coefficient of Utilization



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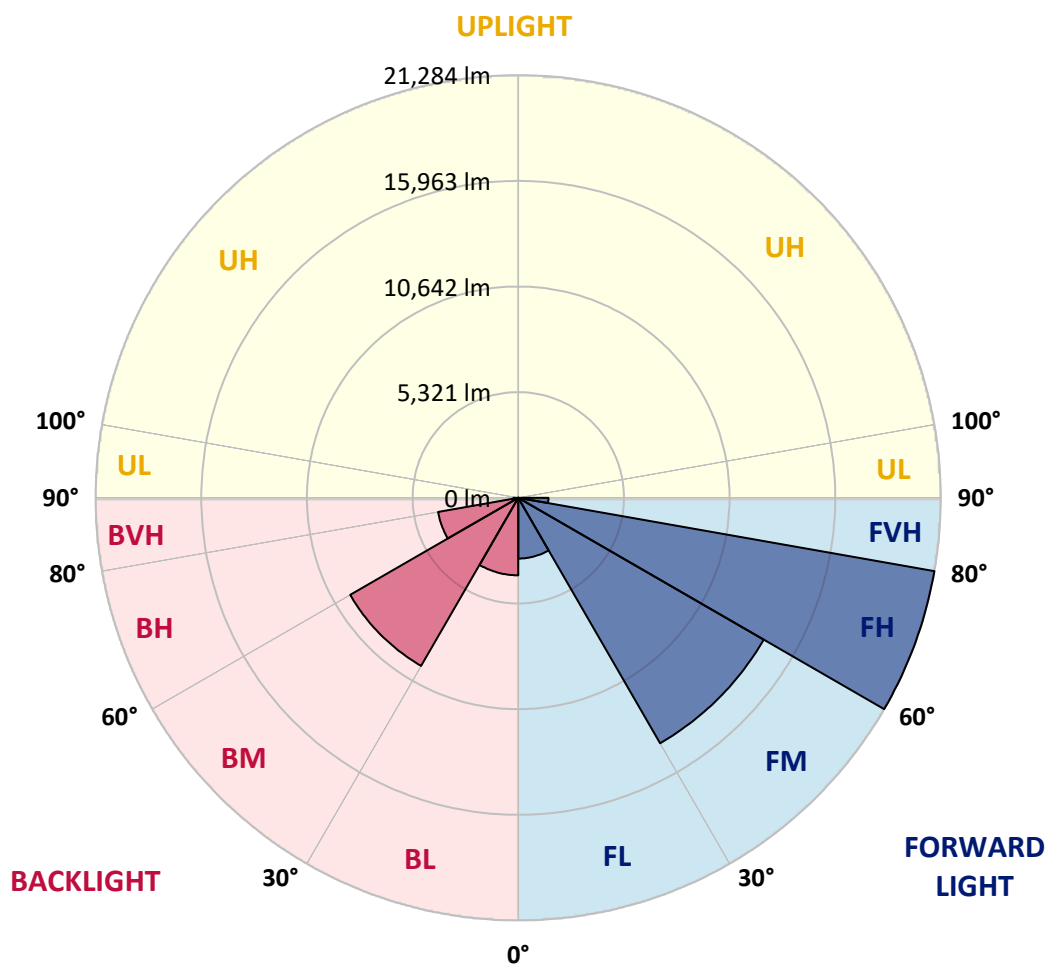
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3059.0	5.3			
FM	(30°-60°)	14275.6	24.5			
FH	(60°-80°)	21283.6	36.6			G5
FVH	(80°-90°)	1518.0	2.6			G5
BL	(0°-30°)	3902.9	6.7	B4/5000		
BM	(30°-60°)	9773.2	16.8	B5		
BH	(60°-80°)	4099.7	7.0	B4/5000		G4/5000
BVH	(80°-90°)	242.4	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°	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0
2.5°	6548.2	6585.2	6576.0	6563.7	6563.7	6566.8	6563.7	6585.2	6606.8	6628.5	6662.4
5°	6616.1	6653.1	6634.6	6619.1	6606.8	6603.8	6594.5	6591.5	6603.8	6631.5	6677.8
7.5°	6748.7	6785.7	6758.0	6730.3	6705.6	6693.2	6680.8	6662.4	6653.1	6668.5	6733.3
10°	6896.8	6933.8	6899.9	6850.5	6810.4	6795.0	6782.6	6764.2	6751.8	6761.1	6832.0
12.5°	7044.8	7081.8	7035.6	6967.7	6915.3	6906.0	6890.7	6884.4	6881.3	6878.3	6949.2
15°	7183.6	7214.5	7155.8	7075.7	7020.1	7004.7	6989.3	6998.6	7014.0	7032.5	7112.7
17.5°	7291.6	7322.4	7236.1	7131.2	7078.8	7072.6	7063.4	7094.2	7137.4	7183.6	7282.3
20°	7390.2	7421.1	7310.1	7168.2	7106.5	7106.5	7109.6	7174.4	7236.1	7303.9	7439.7
22.5°	7529.1	7553.7	7418.0	7223.7	7134.3	7140.5	7165.2	7229.9	7307.0	7399.6	7587.7
25°	7735.8	7754.2	7587.7	7328.6	7226.9	7245.3	7266.9	7297.8	7371.8	7479.7	7732.7
27.5°	8068.9	8084.3	7865.3	7513.7	7359.5	7390.2	7421.1	7399.6	7433.5	7526.1	7849.9
30°	8537.7	8547.0	8269.4	7803.6	7584.6	7600.1	7606.2	7516.7	7452.0	7526.1	7933.2
32.5°	9092.9	9089.8	8759.8	8155.2	7840.6	7825.2	7772.8	7597.0	7445.8	7510.6	8007.2
35°	9953.5	9919.5	9493.9	8648.7	8130.6	8035.0	7911.6	7686.4	7476.7	7495.2	8072.0
37.5°	11378.4	11273.6	10684.5	9456.9	8562.3	8318.7	8136.8	7831.4	7544.5	7489.0	8149.1
40°	12985.4	12852.8	12205.1	10564.2	9210.1	8818.4	8525.3	8038.0	7655.5	7516.7	8263.1
42.5°	14891.6	14703.5	14006.4	11868.9	10030.5	9463.0	9021.9	8300.2	7819.0	7606.2	8417.4
45°	17232.7	16982.9	15995.8	13340.2	11063.8	10308.1	9719.0	8698.0	8068.9	7778.9	8648.7
47.5°	19598.5	19660.1	18256.8	15024.2	12303.8	11350.7	10591.9	9296.4	8432.9	8056.5	9021.9
50°	22112.3	22155.5	20505.3	16890.4	13710.3	12529.0	11572.8	9965.8	8938.7	8451.3	9580.3
52.5°	24074.0	24080.1	22547.2	18842.8	15175.4	13824.4	12630.8	10730.7	9524.7	8975.7	10323.6
55°	25301.6	25286.1	23978.3	20690.3	16859.5	15184.7	13802.9	11600.5	10240.3	9592.6	11258.2
57.5°	26193.0	26146.7	24965.4	22278.9	18654.6	16791.7	15129.1	12587.5	11085.5	10326.7	12488.9
60°	26532.2	26504.6	25634.7	23651.5	20542.3	18568.3	16659.0	13691.7	12044.7	11193.4	14071.2
62.5°	26661.8	26714.3	26291.7	24980.8	22562.6	20536.2	18340.0	15011.9	13124.2	12174.2	15739.9
65°	27118.3	27214.0	27127.5	26720.4	24845.1	22840.2	20570.1	16581.9	14302.5	13226.1	17482.6
67.5°	28022.1	28117.7	28154.7	28802.4	27633.4	25711.8	23352.3	18537.4	15681.3	14317.9	18793.5
70°	28000.4	27972.7	28626.6	30458.8	31124.9	29687.7	27102.8	20943.3	17325.3	15224.7	18960.0
72.5°	25486.6	25264.6	26809.9	30440.2	34030.5	33839.2	31683.3	24046.2	18744.1	15335.7	16452.4
75°	19120.4	18528.2	21257.9	27432.9	34514.8	36195.8	34595.0	25970.9	18407.9	13549.9	11449.5
77.5°	8176.8	7581.5	10798.6	20307.9	30890.5	33836.2	31923.8	22658.2	14694.2	8960.2	5622.9
80°	2140.6	2137.5	3263.3	9207.1	21008.1	24986.9	21921.1	14632.5	8395.8	3201.7	1551.4
82.5°	885.2	863.7	1199.9	3581.0	10265.0	14021.8	11443.2	6526.7	3032.0	866.7	515.1
85°	330.0	327.0	582.9	1236.9	3621.1	5783.4	4185.6	1668.7	755.7	422.6	231.3
87.5°	92.6	89.5	126.5	428.8	882.1	1338.6	715.6	274.5	212.8	166.6	67.9
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°	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0
2.5°	6671.6	6687.0	6714.8	6736.4	6764.2	6795.0	6838.2	6866.0	6893.7	6912.2	6899.9
5°	6699.4	6733.3	6804.3	6875.2	6958.5	7035.6	7125.1	7189.8	7242.2	7257.6	7263.9
7.5°	6761.1	6816.6	6936.9	7057.2	7189.8	7316.2	7445.8	7556.8	7646.3	7680.2	7683.3
10°	6869.0	6943.0	7112.7	7282.3	7458.1	7652.4	7819.0	7979.4	8105.9	8158.3	8161.4
12.5°	7004.7	7097.3	7319.3	7553.7	7797.5	8065.8	8281.7	8479.1	8636.4	8707.4	8707.4
15°	7180.5	7300.9	7584.6	7899.3	8257.0	8630.2	8904.8	9123.7	9299.5	9385.9	9379.8
17.5°	7371.8	7532.2	7889.9	8365.0	8877.0	9367.4	9688.2	9848.6	10030.5	10113.9	10110.8
20°	7556.8	7754.2	8266.3	8957.2	9638.9	10160.1	10419.2	10462.4	10474.7	10484.0	10508.6
22.5°	7748.1	8013.3	8738.2	9703.6	10434.6	10795.5	10832.5	10647.5	10388.4	10268.0	10302.0
25°	7957.8	8309.5	9355.1	10527.2	11119.4	11162.6	10878.8	10428.5	9938.0	9712.9	9746.8
27.5°	8161.4	8651.8	10095.3	11313.6	11612.8	11233.5	10622.8	9984.3	9392.1	9154.6	9182.4
30°	8365.0	9043.6	10912.8	12001.5	11838.0	11057.7	10218.7	9506.3	8910.9	8661.0	8688.8
32.5°	8571.7	9500.0	11853.5	12498.1	11798.0	10684.5	9716.0	8969.6	8445.2	8183.0	8216.9
35°	8806.1	10061.4	12744.8	12769.6	11529.6	10135.4	9052.8	8327.9	7871.5	7661.8	7708.0
37.5°	9111.4	10773.9	13531.4	12837.4	11060.8	9330.4	8229.2	7569.2	7192.9	7097.3	7165.2
40°	9490.8	11631.4	14132.9	12729.5	10366.7	8352.6	7328.6	6801.2	6588.4	6609.9	6683.9
42.5°	9984.3	12590.7	14555.4	12451.8	9401.3	7344.0	6539.0	6304.6	6406.4	6492.8	6572.9
45°	10625.9	13586.9	14817.6	11979.9	8309.5	6489.7	6073.2	6128.8	6205.9	6215.1	6276.8
47.5°	11446.3	14595.5	14990.3	11267.4	7196.0	5888.2	5777.1	5789.5	5774.0	5709.2	5758.7
50°	12470.4	15576.4	15144.6	10323.6	6249.0	5511.8	5363.8	5320.7	5107.8	4898.1	4925.8
52.5°	13636.3	16477.1	15209.4	9151.5	5511.8	5197.3	4956.7	4685.3	4287.4	4222.6	4244.2
55°	14931.7	17309.8	15042.8	7711.1	4891.9	4793.2	4429.2	4102.3	4059.1	4003.5	4012.9
57.5°	16480.2	18207.4	14703.5	6104.1	4256.5	4321.3	3966.5	4003.5	3926.5	3840.2	3824.7
60°	18173.5	19135.8	14108.2	4638.9	3599.5	3732.1	3846.3	3843.2	3821.6	3750.7	3726.0
62.5°	19697.2	19746.5	12936.1	3553.3	3022.7	3275.7	3587.2	3584.1	3565.6	3525.5	3510.1
65°	20604.0	19654.0	10980.6	2797.5	2547.7	2899.3	3235.6	3260.2	3263.3	3260.2	3260.2
67.5°	20443.6	18571.4	8297.2	2226.9	2156.0	2516.9	2887.0	2920.9	2945.6	2951.8	2957.9
70°	18630.0	16193.3	5410.1	1776.6	1807.5	2180.7	2557.0	2590.9	2612.5	2637.2	2649.5
72.5°	14521.5	11905.9	3096.7	1437.4	1502.1	1890.7	2230.1	2270.2	2282.5	2328.7	2347.2
75°	8849.2	7001.7	1671.8	1132.0	1233.8	1616.2	1906.2	1952.4	1974.0	2029.6	2035.8
77.5°	4207.2	3032.0	953.0	882.1	993.2	1320.1	1610.1	1662.6	1603.9	1634.8	1610.1
80°	1421.9	1125.9	601.5	672.4	758.8	1030.2	1289.2	1341.7	1218.3	1212.2	1199.9
82.5°	496.6	456.5	382.4	447.2	490.5	737.2	974.7	1042.5	906.8	903.7	860.6
85°	194.3	185.1	212.8	243.6	293.0	453.5	641.5	675.5	558.3	450.3	444.1
87.5°	40.1	43.2	52.5	55.6	89.5	157.3	231.3	283.7	225.2	191.3	175.8
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)