

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: P885294

Luminaire Tested: **NAV-SB6C-735-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45059 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

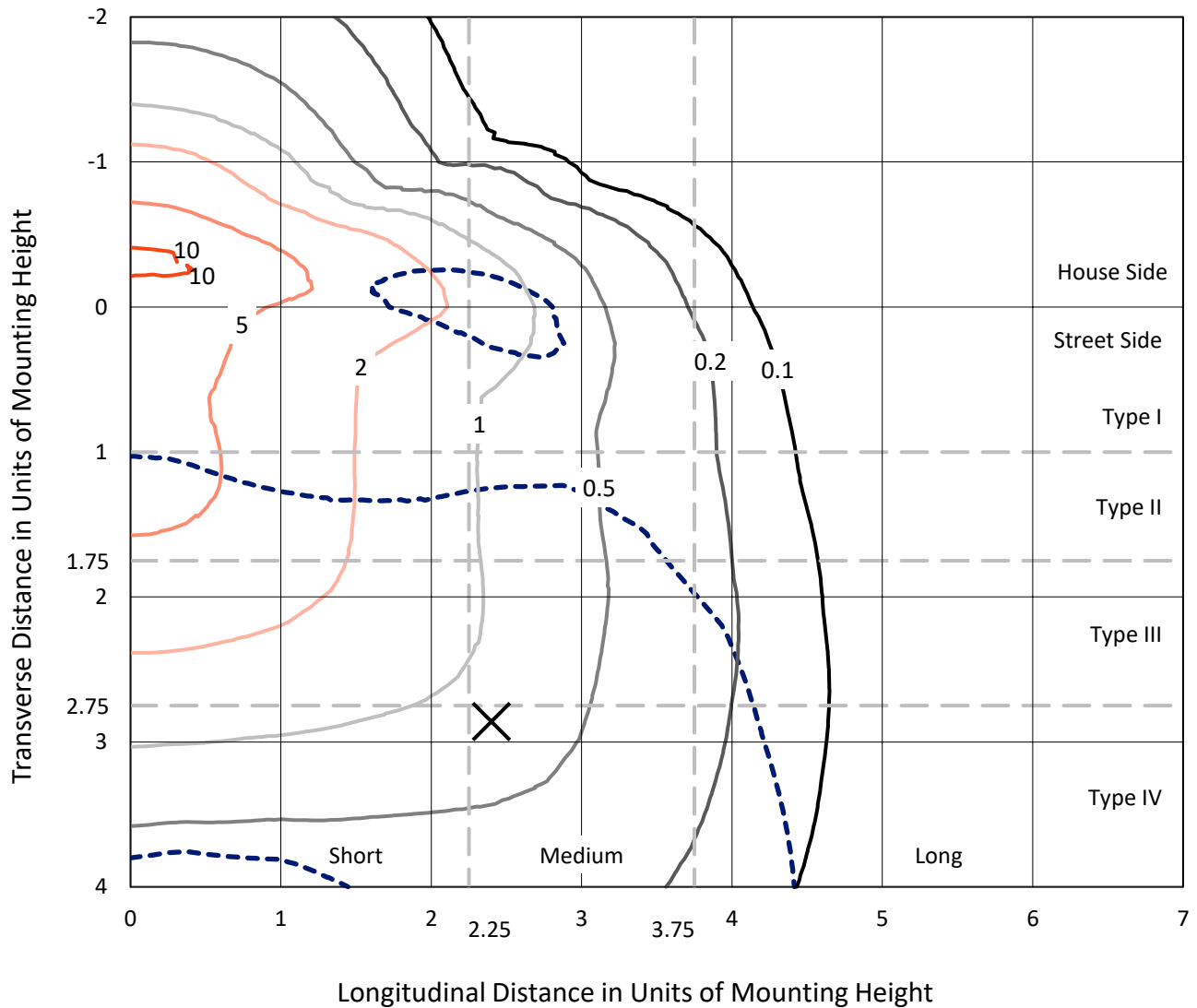
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885294
 CATALOG NUMBER: NAV-SB6C-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

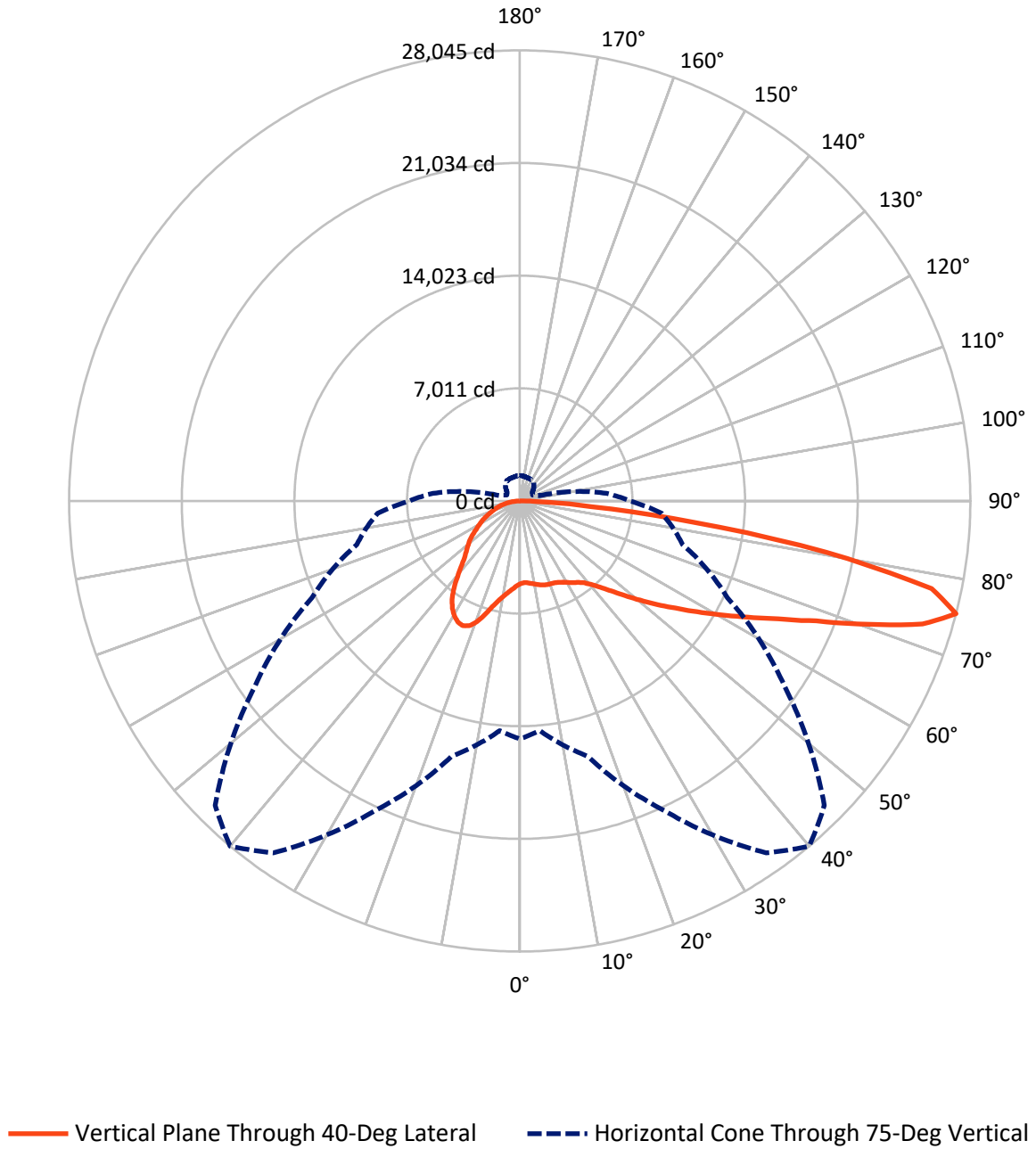
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P885294
CATALOG NUMBER: NAV-SB6C-735-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13960.8	0.0	13960.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	31098.2	0.0	31098.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	45059.0	0.0	45059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.3	1.1
10°-20°	1726.8	3.8
20°-30°	3153.0	7.0
30°-40°	4471.9	9.9
40°-50°	6038.4	13.4
50°-60°	8123.2	18.0
60°-70°	10310.2	22.9
70°-80°	9357.2	20.8
80°-90°	1364.0	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°	45059.0	100.0
0°-180°	45059.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885294

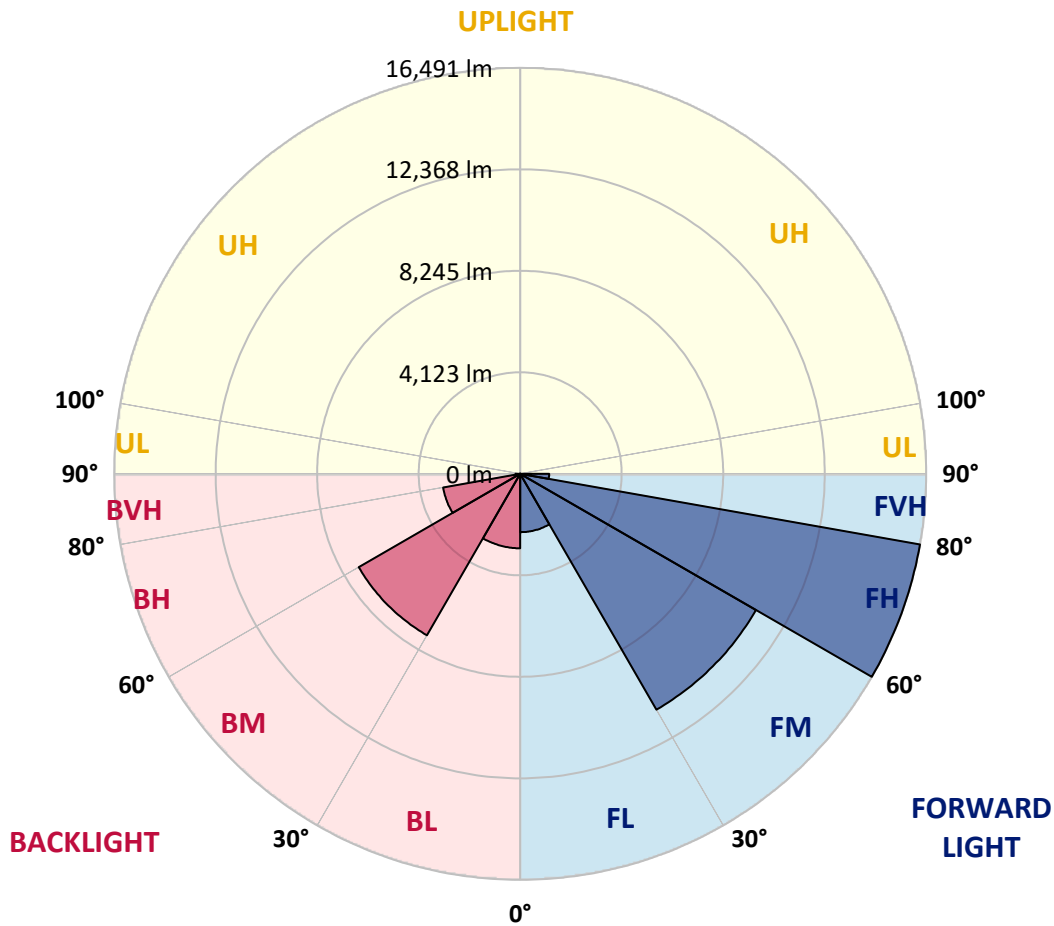
CATALOG NUMBER: NAV-SB6C-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.1	5.3			
FM (30°-60°)	11061.0	24.5			
FH (60°-80°)	16490.9	36.6			G5
FVH (80°-90°)	1176.2	2.6			G5
BL (0°-30°)	3024.0	6.7	B4/5000		
BM (30°-60°)	7572.5	16.8	B4/8500		
BH (60°-80°)	3176.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	187.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P885294

CATALOG NUMBER: NAV-SB6C-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6
2.5°	5073.7	5102.4	5095.2	5085.6	5085.6	5088.0	5085.6	5102.4	5119.1	5135.8	5162.1
5°	5126.3	5154.9	5140.6	5128.7	5119.1	5116.7	5109.5	5107.1	5116.7	5138.2	5174.1
7.5°	5229.0	5257.7	5236.2	5214.7	5195.6	5186.0	5176.5	5162.1	5154.9	5166.9	5217.1
10°	5343.7	5372.4	5346.1	5307.9	5276.8	5264.9	5255.3	5241.0	5231.4	5238.6	5293.6
12.5°	5458.5	5487.1	5451.3	5398.7	5358.1	5350.9	5339.0	5334.2	5331.8	5329.4	5384.4
15°	5566.0	5589.9	5544.5	5482.4	5439.3	5427.4	5415.4	5422.6	5434.6	5448.9	5511.0
17.5°	5649.6	5673.5	5606.6	5525.4	5484.7	5480.0	5472.8	5496.7	5530.2	5566.0	5642.5
20°	5726.1	5750.0	5664.0	5554.1	5506.3	5506.3	5508.6	5558.8	5606.6	5659.2	5764.4
22.5°	5833.7	5852.8	5747.6	5597.1	5527.8	5532.5	5551.7	5601.9	5661.6	5733.3	5879.1
25°	5993.8	6008.1	5879.1	5678.3	5599.5	5613.8	5630.5	5654.4	5711.8	5795.4	5991.4
27.5°	6251.9	6263.8	6094.2	5821.7	5702.2	5726.1	5750.0	5733.3	5759.6	5831.3	6082.2
30°	6615.2	6622.3	6407.2	6046.4	5876.7	5888.6	5893.4	5824.1	5773.9	5831.3	6146.7
32.5°	7045.3	7042.9	6787.2	6318.8	6075.0	6063.1	6022.5	5886.2	5769.1	5819.3	6204.1
35°	7712.1	7685.8	7356.0	6701.2	6299.7	6225.6	6130.0	5955.6	5793.0	5807.4	6254.3
37.5°	8816.2	8735.0	8278.5	7327.3	6634.3	6445.5	6304.5	6067.9	5845.6	5802.6	6314.0
40°	10061.3	9958.6	9456.7	8185.3	7136.1	6832.6	6605.6	6228.0	5931.7	5824.1	6402.5
42.5°	11538.3	11392.5	10852.4	9196.2	7771.9	7332.1	6990.4	6431.1	6058.3	5893.4	6522.0
45°	13352.2	13158.6	12393.9	10336.2	8572.5	7986.9	7530.5	6739.4	6251.9	6027.2	6701.2
47.5°	15185.2	15233.0	14145.6	11641.0	9533.2	8794.7	8206.8	7203.1	6533.9	6242.3	6990.4
50°	17133.0	17166.4	15887.8	13086.9	10623.0	9707.6	8966.8	7721.7	6925.8	6548.2	7422.9
52.5°	18652.9	18657.7	17469.9	14599.7	11758.2	10711.4	9786.5	8314.4	7379.9	6954.5	7998.9
55°	19604.1	19592.1	18578.8	16031.2	13063.0	11765.3	10694.7	8988.3	7934.4	7432.5	8723.0
57.5°	20294.8	20258.9	19343.6	17262.0	14453.9	13010.4	11722.3	9753.1	8589.2	8001.3	9676.6
60°	20557.6	20536.1	19862.2	18325.5	15916.5	14387.0	12907.7	10608.6	9332.4	8672.8	10902.6
62.5°	20658.0	20698.7	20371.2	19355.5	17481.9	15911.7	14210.2	11631.5	10168.9	9432.8	12195.5
65°	21011.7	21085.8	21018.9	20703.4	19250.4	17697.0	15938.0	12847.9	11081.8	10247.8	13545.8
67.5°	21712.0	21786.0	21814.7	22316.6	21410.8	19921.9	18093.7	14363.1	12150.1	11093.8	14561.5
70°	21695.2	21673.7	22180.4	23600.0	24116.2	23002.5	20999.8	16227.2	13423.9	11796.4	14690.5
72.5°	19747.5	19575.4	20772.7	23585.6	26367.4	26219.2	24548.7	18631.4	14523.2	11882.4	12747.6
75°	14814.8	14355.9	16471.0	21255.5	26742.6	28045.1	26804.8	20122.7	14262.7	10498.7	8871.2
77.5°	6335.5	5874.3	8366.9	15734.9	23934.5	26216.9	24735.1	17556.0	11385.3	6942.6	4356.7
80°	1658.6	1656.2	2528.5	7133.8	16277.4	19360.3	16984.8	11337.5	6505.2	2480.7	1202.1
82.5°	685.9	669.2	929.7	2774.6	7953.5	10864.3	8866.4	5057.0	2349.2	671.6	399.1
85°	255.7	253.3	451.7	958.3	2805.7	4481.0	3243.1	1292.9	585.5	327.4	179.2
87.5°	71.7	69.3	98.0	332.2	683.5	1037.2	554.4	212.7	164.9	129.1	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885294

CATALOG NUMBER: NAV-SB6C-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6	5152.6
2.5°	5169.3	5181.2	5202.7	5219.5	5241.0	5264.9	5298.3	5319.8	5341.4	5355.7	5346.1
5°	5190.8	5217.1	5272.1	5327.0	5391.5	5451.3	5520.6	5570.8	5611.4	5623.4	5628.1
7.5°	5238.6	5281.6	5374.8	5468.0	5570.8	5668.8	5769.1	5855.2	5924.5	5950.8	5953.2
10°	5322.2	5379.6	5511.0	5642.5	5778.7	5929.3	6058.3	6182.6	6280.6	6321.2	6323.6
12.5°	5427.4	5499.1	5671.2	5852.8	6041.6	6249.5	6416.8	6569.7	6691.6	6746.6	6746.6
15°	5563.6	5656.8	5876.7	6120.5	6397.7	6686.9	6899.6	7069.2	7205.5	7272.4	7267.6
17.5°	5711.8	5836.1	6113.3	6481.3	6878.0	7258.0	7506.6	7630.9	7771.9	7836.4	7834.0
20°	5855.2	6008.1	6404.8	6940.2	7468.3	7872.2	8073.0	8106.4	8116.0	8123.2	8142.3
22.5°	6003.3	6208.9	6770.5	7518.5	8084.9	8364.5	8393.2	8249.8	8049.1	7955.9	7982.2
25°	6165.9	6438.3	7248.5	8156.6	8615.5	8648.9	8429.1	8080.1	7700.2	7525.7	7552.0
27.5°	6323.6	6703.6	7822.0	8766.0	8997.9	8703.9	8230.7	7736.0	7277.1	7093.1	7114.6
30°	6481.3	7007.1	8455.4	9299.0	9172.3	8567.7	7917.6	7365.6	6904.3	6710.8	6732.3
32.5°	6641.4	7360.8	9184.3	9683.7	9141.2	8278.5	7528.1	6949.7	6543.5	6340.3	6366.6
35°	6823.1	7795.8	9874.9	9894.1	8933.3	7853.1	7014.3	6452.6	6098.9	5936.4	5972.3
37.5°	7059.7	8347.8	10484.4	9946.6	8570.1	7229.4	6376.2	5864.7	5573.2	5499.1	5551.7
40°	7353.6	9012.2	10950.4	9863.0	8032.3	6471.8	5678.3	5269.7	5104.8	5121.5	5178.8
42.5°	7736.0	9755.4	11277.8	9647.9	7284.3	5690.3	5066.5	4884.9	4963.8	5030.7	5092.8
45°	8233.1	10527.4	11480.9	9282.2	6438.3	5028.3	4705.7	4748.7	4808.4	4815.6	4863.4
47.5°	8868.8	11308.9	11614.8	8730.2	5575.6	4562.3	4476.2	4485.8	4473.8	4423.6	4461.9
50°	9662.2	12068.8	11734.3	7998.9	4841.9	4270.7	4156.0	4122.5	3957.6	3795.1	3816.6
52.5°	10565.6	12766.7	11784.4	7090.7	4270.7	4026.9	3840.5	3630.2	3321.9	3271.7	3288.5
55°	11569.4	13411.9	11655.4	5974.7	3790.3	3713.9	3431.9	3178.5	3145.1	3102.0	3109.2
57.5°	12769.1	14107.4	11392.5	4729.5	3298.0	3348.2	3073.4	3102.0	3042.3	2975.4	2963.4
60°	14081.1	14826.7	10931.3	3594.4	2789.0	2891.7	2980.2	2977.8	2961.0	2906.1	2887.0
62.5°	15261.7	15299.9	10023.1	2753.1	2342.1	2538.0	2779.4	2777.0	2762.7	2731.6	2719.7
65°	15964.3	15228.2	8507.9	2167.6	1974.0	2246.5	2507.0	2526.1	2528.5	2526.1	2526.1
67.5°	15840.0	14389.4	6428.7	1725.5	1670.5	1950.1	2236.9	2263.2	2282.3	2287.1	2291.9
70°	14434.8	12546.8	4191.8	1376.6	1400.5	1689.6	1981.2	2007.5	2024.2	2043.3	2052.9
72.5°	11251.5	9224.9	2399.4	1113.7	1163.9	1465.0	1727.9	1758.9	1768.5	1804.4	1818.7
75°	6856.5	5425.0	1295.3	877.1	955.9	1252.3	1476.9	1512.8	1529.5	1572.5	1577.3
77.5°	3259.8	2349.2	738.5	683.5	769.5	1022.9	1247.5	1288.1	1242.7	1266.6	1247.5
80°	1101.7	872.3	466.0	521.0	587.9	798.2	999.0	1039.6	944.0	939.2	929.7
82.5°	384.8	353.7	296.3	346.5	380.0	571.2	755.2	807.8	702.6	700.2	666.8
85°	150.6	143.4	164.9	188.8	227.0	351.3	497.1	523.4	432.6	348.9	344.1
87.5°	31.1	33.5	40.6	43.0	69.3	121.9	179.2	219.9	174.5	148.2	136.2
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)