

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: P970369

Luminaire Tested: **NAV-SB6B-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34679.8 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

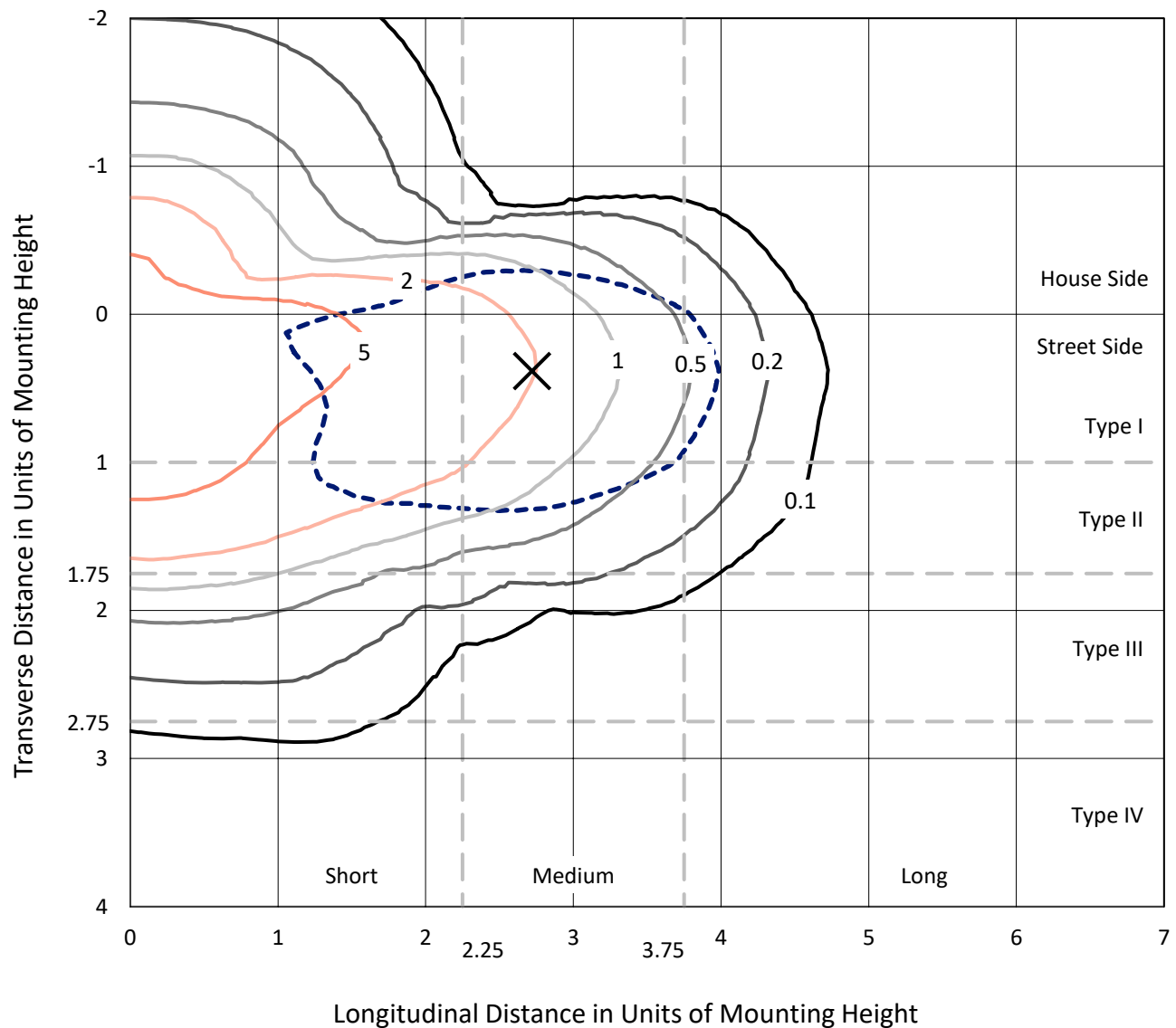
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970369
 CATALOG NUMBER: NAV-SB6B-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

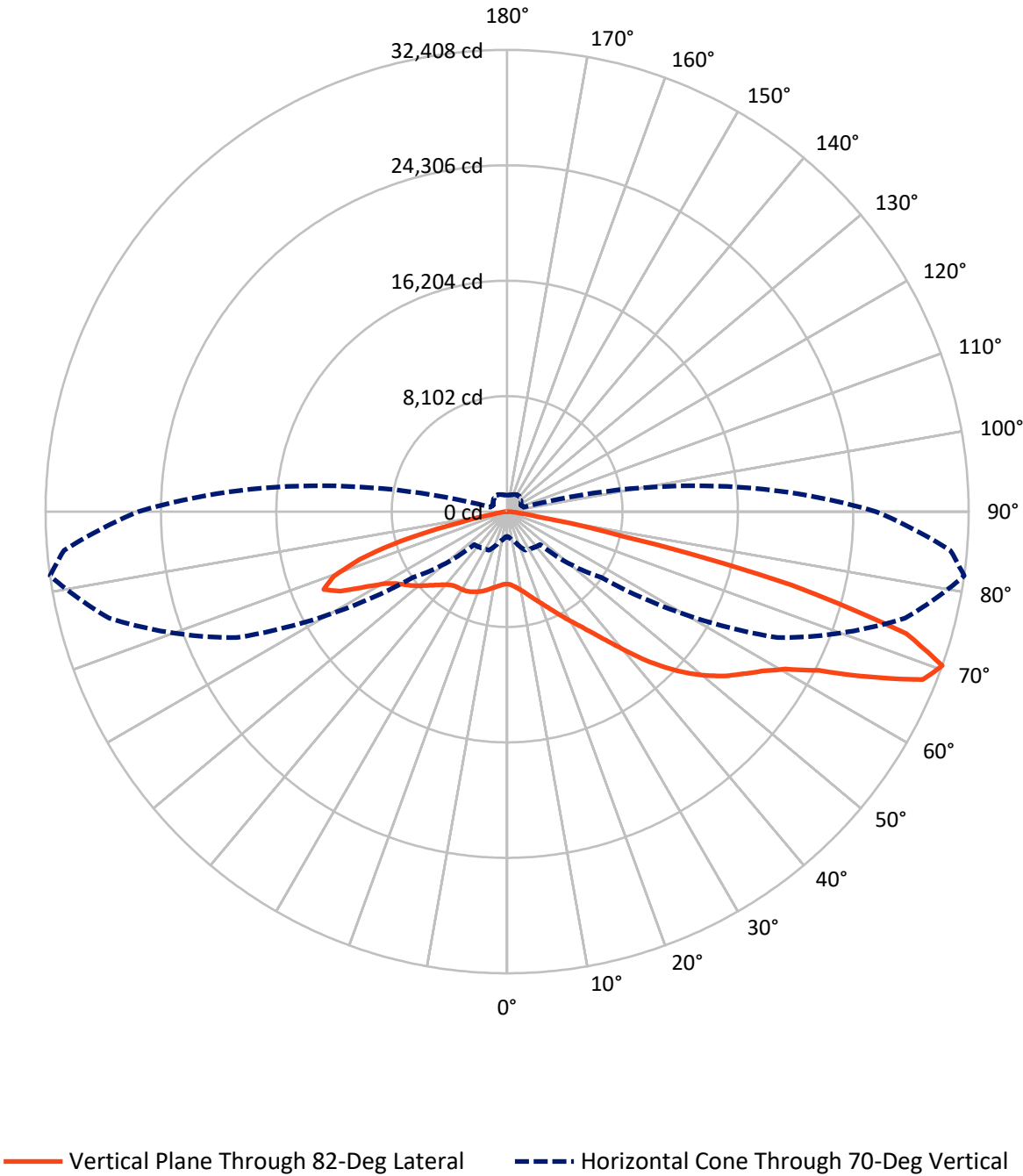
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P970369
CATALOG NUMBER: NAV-SB6B-735-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P970369

CATALOG NUMBER: NAV-SB6B-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8549.4	0.0	8549.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	26130.4	0.0	26130.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	34679.8	0.0	34679.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	1.4
10°-20°	1379.3	4.0
20°-30°	2307.4	6.7
30°-40°	3604.7	10.4
40°-50°	5740.9	16.6
50°-60°	7989.2	23.0
60°-70°	8357.0	24.1
70°-80°	4367.8	12.6
80°-90°	453.5	1.3
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°	34679.8	100.0
0°-180°	34679.8	100.0

Coefficient of Utilization



REPORT NUMBER: P970369

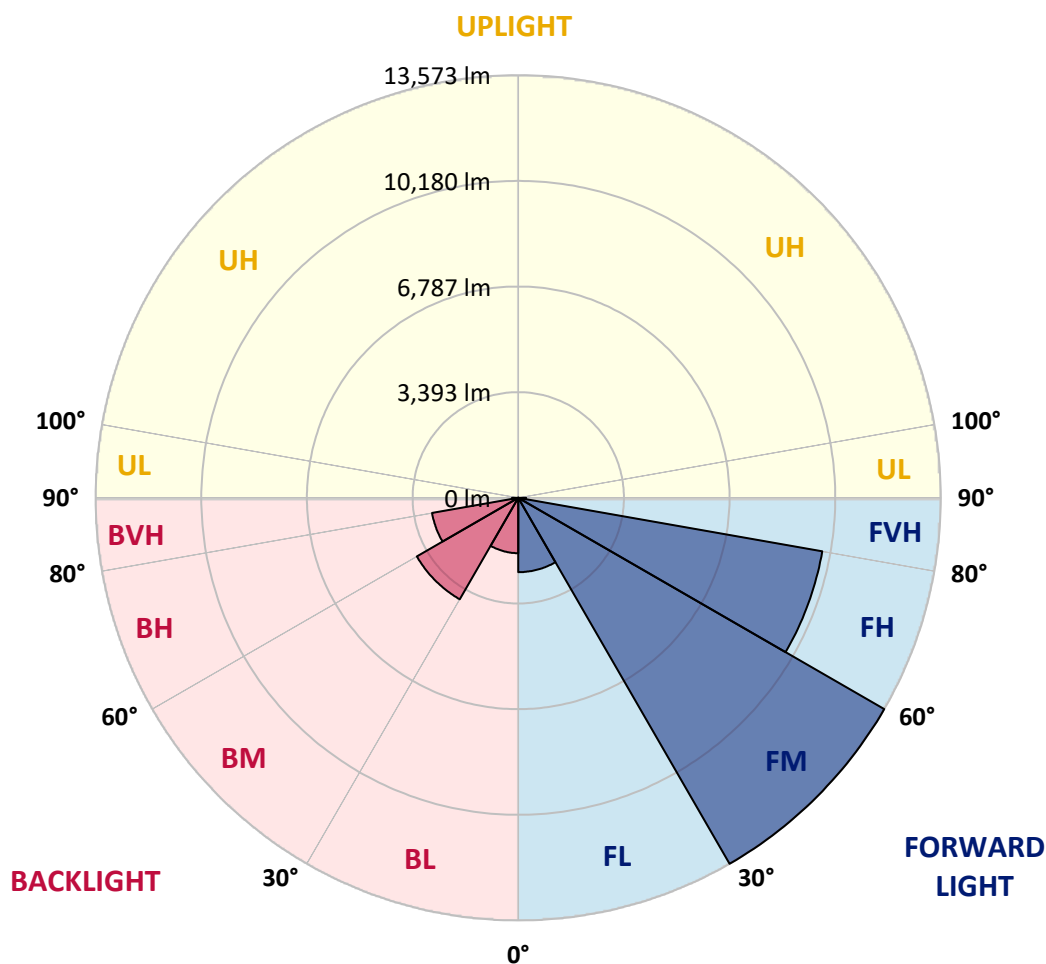
CATALOG NUMBER: NAV-SB6B-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2388.1	6.9			
FM	(30°-60°)	13573.3	39.1			
FH	(60°-80°)	9915.1	28.6			G4/12000
FVH	(80°-90°)	253.9	0.7			G3/500
BL	(0°-30°)	1778.6	5.1	B3/2500		
BM	(30°-60°)	3761.4	10.8	B3/5000		
BH	(60°-80°)	2809.8	8.1	B4/5000		G4/5000
BVH	(80°-90°)	199.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



REPORT NUMBER: P970369

CATALOG NUMBER: NAV-SB6B-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5
2.5°	5206.0	5235.4	5226.2	5217.0	5217.0	5204.1	5202.3	5183.8	5169.2	5145.2	5139.7
5°	5272.2	5303.5	5299.8	5307.1	5331.1	5336.6	5342.1	5331.1	5301.6	5272.2	5259.3
7.5°	5213.4	5248.3	5259.3	5303.5	5377.0	5443.4	5493.0	5513.3	5485.7	5443.4	5423.1
10°	5014.6	5053.2	5091.9	5196.8	5327.4	5483.9	5616.3	5695.4	5689.9	5649.5	5614.4
12.5°	4611.6	4652.1	4734.9	4939.2	5178.3	5454.3	5700.9	5866.6	5923.7	5894.2	5833.5
15°	4289.5	4324.5	4387.1	4596.8	4907.8	5327.4	5732.2	6054.3	6199.7	6183.1	6109.5
17.5°	4280.3	4295.1	4333.7	4433.0	4672.3	5128.7	5699.1	6238.4	6516.2	6514.4	6422.3
20°	4442.2	4447.8	4469.8	4490.1	4626.3	4977.8	5614.4	6391.1	6871.3	6871.3	6772.0
22.5°	4666.7	4663.1	4685.2	4666.7	4733.0	4964.9	5561.1	6525.4	7266.9	7296.5	7171.3
25°	5003.5	4985.1	4979.7	4937.3	4950.1	5084.5	5620.0	6678.1	7736.3	7797.0	7640.6
27.5°	5452.6	5423.1	5402.9	5305.3	5272.2	5331.1	5800.4	6862.2	8258.8	8363.8	8165.0
30°	6037.8	5984.4	5954.9	5785.6	5666.0	5675.2	6072.7	7106.9	8805.4	8974.7	8722.5
32.5°	6836.3	6753.5	6674.4	6396.6	6177.6	6105.8	6424.2	7445.5	9397.9	9668.4	9344.6
35°	7730.8	7664.4	7579.9	7151.0	6814.3	6648.7	6899.0	7918.4	10091.7	10520.5	10099.1
37.5°	8592.0	8534.9	8575.4	7997.6	7563.3	7322.2	7520.9	8553.3	10947.4	11580.4	11045.0
40°	9482.6	9438.4	9443.9	8891.9	8385.8	8115.3	8275.4	9350.2	11928.2	12841.0	12182.2
42.5°	10450.6	10417.4	10307.0	9817.6	9248.9	8996.8	9144.0	10270.2	12980.8	14276.3	13429.9
45°	11534.4	11514.2	11411.1	10849.8	10198.4	9915.0	10113.8	11286.0	14038.9	15627.0	14683.0
47.5°	12471.1	12487.7	12474.8	12001.8	11326.5	10910.6	11148.0	12345.9	15023.4	16896.8	15884.7
50°	12922.0	13008.5	13135.4	12988.2	12568.7	12145.4	12191.3	13369.1	15962.0	18087.5	17036.6
52.5°	12686.4	12850.2	13196.2	13431.7	13593.7	13505.3	13382.0	14385.0	16845.3	19162.1	18126.1
55°	11808.6	12038.6	12612.8	13181.4	14007.6	14649.9	14811.9	15511.1	17706.5	20107.9	19156.6
57.5°	10209.5	10583.0	11098.3	12248.4	13639.7	15203.8	16479.0	17073.4	18619.2	21118.3	20234.9
60°	7467.5	7968.1	8608.5	10319.9	12351.5	14907.5	17897.8	19473.1	19916.6	22426.6	21639.0
62.5°	4779.1	5088.2	5677.1	7289.1	9624.3	13389.4	18332.1	22472.6	22115.6	24572.3	23744.2
65°	3271.9	3470.6	4009.8	4915.2	6221.7	9966.6	17169.2	24721.4	25608.4	27973.1	27343.7
67.5°	2377.6	2528.5	2988.5	3781.6	4054.0	5897.8	13323.2	24618.3	29003.5	31476.8	30497.7
70°	1733.5	1840.2	2226.6	2988.5	3119.2	3281.1	8071.2	20926.9	28929.9	32407.9	31235.7
72.5°	1284.4	1358.1	1617.6	2318.7	2524.8	2215.6	3995.1	15209.4	24859.4	29312.7	28372.3
75°	929.3	984.5	1175.9	1774.0	2020.6	1687.5	1992.9	8888.2	17340.3	20619.5	20785.2
77.5°	710.3	752.7	877.8	1299.2	1617.6	1266.1	1236.7	4088.9	8222.0	8262.5	8726.2
80°	570.5	598.1	666.1	914.6	1240.4	947.7	806.1	1650.7	2598.4	2199.0	2307.6
82.5°	419.5	465.6	563.1	642.3	886.9	653.2	491.4	833.6	988.2	850.1	857.5
85°	239.2	270.5	340.4	460.0	566.8	399.3	281.6	369.9	460.0	377.2	336.7
87.5°	84.7	110.4	119.6	180.3	246.6	165.6	108.5	106.7	150.9	112.2	93.9
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: P970369

CATALOG NUMBER: NAV-SB6B-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5	5084.5
2.5°	5121.3	5112.1	5075.3	5025.6	4974.1	4924.4	4907.8	4872.8	4849.0	4836.1	4850.8
5°	5224.3	5194.9	5108.4	4998.0	4882.1	4756.9	4668.6	4587.6	4528.8	4473.5	4495.6
7.5°	5371.6	5320.1	5171.0	4977.8	4771.7	4563.7	4409.1	4291.4	4212.2	4160.7	4171.8
10°	5542.7	5463.6	5235.4	4946.4	4628.1	4330.0	4147.9	4046.6	3996.9	3969.3	3976.7
12.5°	5739.6	5627.4	5301.6	4874.7	4409.1	4068.7	3943.6	3914.2	3916.0	3917.9	3921.4
15°	5982.5	5826.1	5355.0	4718.3	4123.9	3868.1	3846.0	3893.9	3943.6	3967.5	3965.6
17.5°	6256.7	6035.9	5364.2	4460.7	3844.2	3739.3	3809.2	3912.3	3987.8	4020.9	4028.2
20°	6551.2	6249.3	5297.9	4096.3	3614.2	3634.4	3759.6	3892.0	3974.8	4017.2	4028.2
22.5°	6887.9	6477.5	5139.7	3713.6	3426.5	3520.4	3667.6	3796.4	3882.8	3925.1	3936.2
25°	7272.5	6733.3	4891.3	3391.5	3264.5	3391.5	3538.7	3645.4	3715.4	3754.1	3765.0
27.5°	7699.4	7000.1	4560.0	3135.7	3122.9	3259.0	3380.4	3463.3	3500.1	3529.5	3540.6
30°	8128.2	7243.1	4158.8	2942.5	2999.6	3128.4	3214.8	3251.6	3262.7	3268.2	3281.1
32.5°	8592.0	7452.9	3737.5	2782.4	2881.8	3001.4	3052.9	3069.5	3017.9	2983.0	2994.0
35°	9153.2	7677.4	3325.3	2655.5	2765.9	2868.9	2885.5	2870.7	2810.0	2738.2	2741.9
37.5°	9847.0	7957.1	2995.9	2565.3	2657.3	2725.4	2705.1	2701.4	2706.9	2622.3	2627.8
40°	10697.1	8321.5	2754.8	2495.4	2569.0	2583.6	2526.6	2557.9	2585.5	2456.7	2460.4
42.5°	11641.1	8761.3	2602.1	2447.5	2495.4	2460.4	2372.1	2407.0	2403.3	2234.0	2232.1
45°	12603.6	9239.7	2548.7	2412.5	2427.2	2357.3	2259.8	2268.9	2191.7	2038.9	2044.5
47.5°	13560.5	9753.1	2581.8	2383.0	2342.6	2263.5	2188.0	2147.5	2033.4	1919.3	1919.3
50°	14499.0	10292.3	2703.2	2324.2	2226.6	2180.7	2125.4	2053.7	1932.2	1834.6	1827.4
52.5°	15369.5	10835.2	2839.5	2226.6	2081.3	2108.8	2073.9	1991.1	1871.4	1772.1	1774.0
55°	16193.9	11378.0	2892.9	2092.3	1945.1	2046.3	2026.1	1873.3	1729.8	1648.8	1641.4
57.5°	17091.9	12031.2	2833.9	1921.2	1834.6	1974.6	1897.3	1727.9	1645.1	1584.4	1578.9
60°	18335.8	13056.2	2706.9	1709.6	1729.8	1867.9	1735.3	1665.4	1575.2	1507.2	1503.5
62.5°	20402.4	14968.3	2502.6	1499.8	1606.5	1709.6	1658.0	1588.1	1496.1	1429.9	1429.9
65°	23457.1	17625.5	2118.1	1336.0	1468.5	1555.0	1575.2	1505.3	1409.6	1339.7	1343.4
67.5°	26033.5	19292.8	1602.8	1199.9	1326.8	1429.9	1486.9	1418.8	1317.6	1249.5	1251.3
70°	25891.7	18081.9	1223.7	1065.5	1201.6	1306.6	1380.2	1326.8	1218.2	1153.8	1159.4
72.5°	22997.1	15126.5	990.0	929.3	1074.7	1177.7	1266.1	1225.6	1115.2	1052.6	1052.6
75°	16895.0	10737.6	791.3	791.3	916.5	1043.4	1140.9	1115.2	1013.9	969.8	956.9
77.5°	7121.6	4504.9	620.1	656.9	761.9	896.2	1017.6	1026.8	938.5	993.7	901.7
80°	1893.6	1242.1	472.9	517.1	598.1	739.7	885.2	881.5	785.8	734.2	682.8
82.5°	721.4	489.5	336.7	364.4	432.4	566.8	701.1	723.2	627.5	542.8	542.8
85°	277.9	209.8	208.0	218.9	252.2	375.4	530.0	548.4	472.9	401.2	414.0
87.5°	71.8	62.5	77.3	73.6	115.9	200.6	303.6	314.7	288.9	167.5	239.2
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)