

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: P970803

Luminaire Tested: **NAV-SB6C-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970803
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-SB6C-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38102.3 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

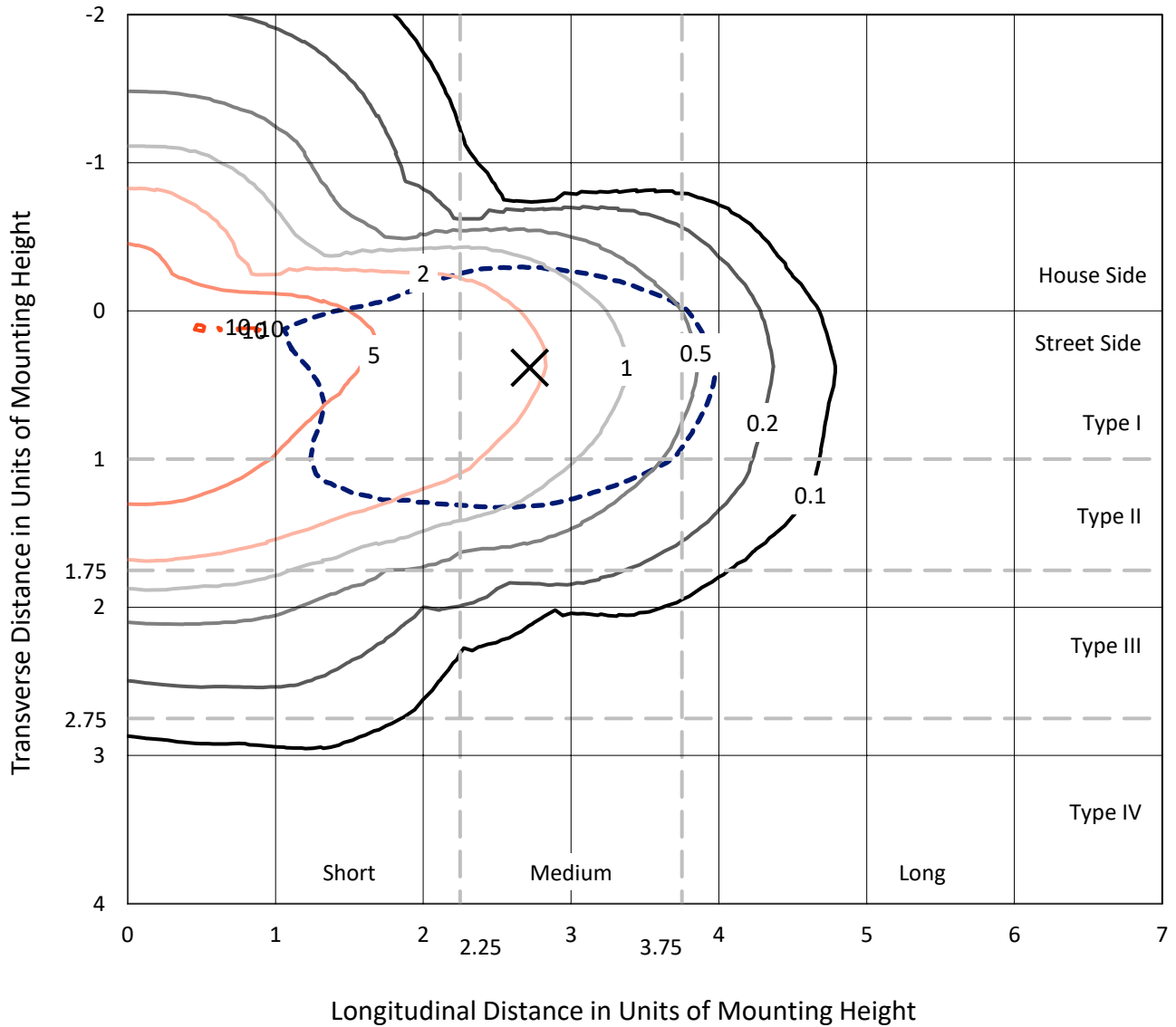
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970803
 CATALOG NUMBER: NAV-SB6C-722-U-T2

Iso-Footcandle Lines of Horizontal Illumination

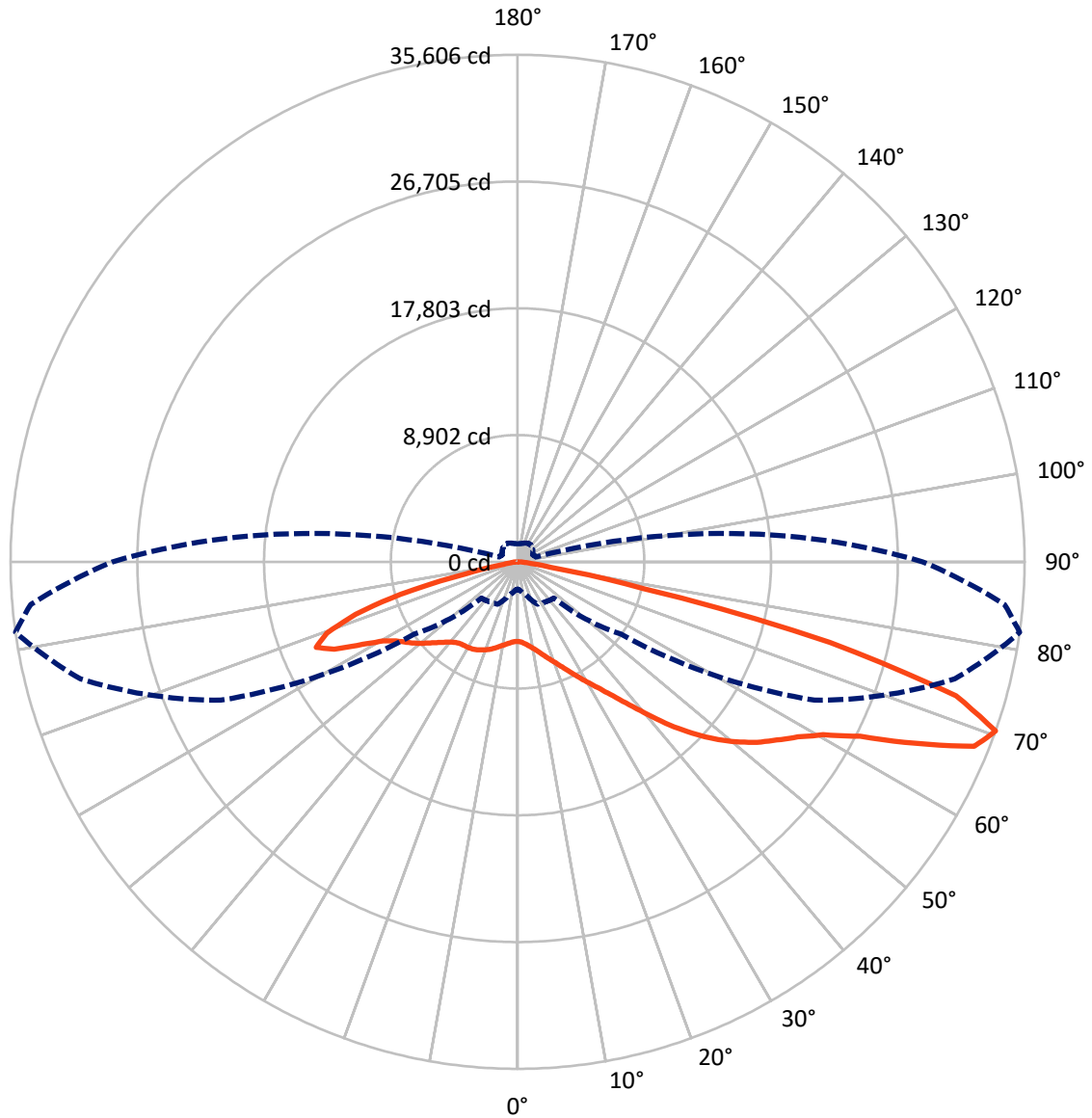
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P970803
CATALOG NUMBER: NAV-SB6C-722-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P970803
 CATALOG NUMBER: NAV-SB6C-722-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9393.2	0.0	9393.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28709.1	0.0	28709.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	38102.3	0.0	38102.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.4	1.4
10°-20°	1515.4	4.0
20°-30°	2535.1	6.7
30°-40°	3960.4	10.4
40°-50°	6307.4	16.6
50°-60°	8777.6	23.0
60°-70°	9181.8	24.1
70°-80°	4798.9	12.6
80°-90°	498.3	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°	38102.3	100.0
0°-180°	38102.3	100.0

Coefficient of Utilization

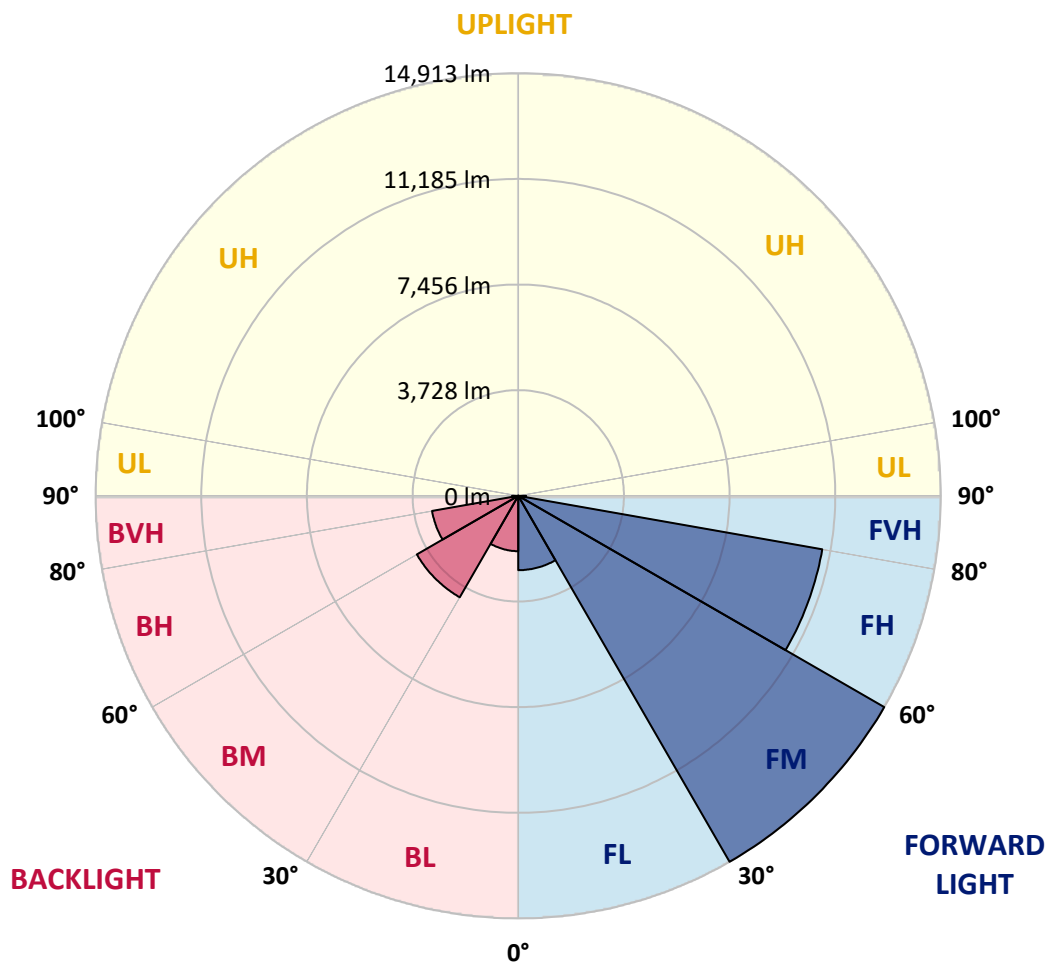


REPORT NUMBER: P970803
 CATALOG NUMBER: NAV-SB6C-722-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.8	6.9			
FM (30°-60°)	14912.9	39.1			
FH (60°-80°)	10893.6	28.6			G4/12000
FVH (80°-90°)	278.9	0.7			G3/500
BL (0°-30°)	1954.1	5.1	B3/2500		
BM (30°-60°)	4132.6	10.8	B3/5000		
BH (60°-80°)	3087.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	219.4	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: P970803
 CATALOG NUMBER: NAV-SB6C-722-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2
2.5°	5719.7	5752.1	5741.9	5731.8	5731.8	5717.7	5715.7	5695.4	5679.3	5653.0	5646.9
5°	5792.5	5826.9	5822.8	5830.9	5857.2	5863.3	5869.4	5857.2	5824.9	5792.5	5778.3
7.5°	5727.8	5766.2	5778.3	5826.9	5907.8	5980.6	6035.1	6057.3	6027.0	5980.6	5958.3
10°	5509.5	5551.9	5594.3	5709.6	5853.2	6025.1	6170.6	6257.5	6251.5	6207.0	6168.6
12.5°	5066.7	5111.2	5202.2	5426.6	5689.4	5992.7	6263.6	6445.5	6508.2	6475.8	6409.1
15°	4712.8	4751.3	4820.0	5050.5	5392.2	5853.2	6297.9	6651.7	6811.5	6793.3	6712.4
17.5°	4702.7	4718.9	4761.3	4870.6	5133.4	5634.8	6261.5	6854.0	7159.2	7157.3	7056.1
20°	4880.6	4886.7	4911.0	4933.2	5082.9	5469.0	6168.6	7021.8	7549.4	7549.4	7440.3
22.5°	5127.4	5123.3	5147.5	5127.4	5200.1	5454.8	6109.9	7169.4	7984.1	8016.5	7879.0
25°	5497.3	5477.1	5471.0	5424.5	5438.6	5586.2	6174.6	7337.2	8499.7	8566.4	8394.5
27.5°	5990.6	5958.3	5936.1	5828.9	5792.5	5857.2	6372.7	7539.4	9073.9	9189.1	8970.8
30°	6633.6	6575.0	6542.6	6356.6	6225.1	6235.3	6672.0	7808.2	9674.4	9860.4	9583.4
32.5°	7511.0	7420.1	7333.2	7027.8	6787.2	6708.4	7058.2	8180.2	10325.4	10622.6	10266.8
35°	8493.7	8420.9	8327.8	7856.7	7486.8	7304.9	7579.8	8699.9	11087.6	11558.7	11095.7
37.5°	9439.8	9377.2	9421.7	8786.8	8309.7	8044.8	8263.1	9397.4	12027.8	12723.3	12135.0
40°	10418.4	10369.9	10376.0	9769.4	9213.4	8916.2	9092.1	10272.9	13105.4	14108.2	13384.4
42.5°	11481.8	11445.5	11324.2	10786.4	10161.6	9884.7	10046.4	11283.7	14261.8	15685.3	14755.2
45°	12672.8	12650.6	12537.3	11920.6	11204.9	10893.5	11111.9	12399.8	15424.4	17169.3	16132.1
47.5°	13701.9	13720.0	13705.9	13186.3	12444.3	11987.4	12248.1	13564.3	16506.1	18564.3	17452.3
50°	14197.2	14292.2	14431.7	14269.9	13809.0	13344.0	13394.5	14688.5	17537.2	19872.4	18717.9
52.5°	13938.4	14118.4	14498.4	14757.2	14935.2	14838.1	14702.6	15804.6	18507.7	21053.2	19914.9
55°	12974.0	13226.7	13857.5	14482.2	15390.1	16095.7	16273.6	17041.9	19453.9	22092.3	21047.1
57.5°	11217.0	11627.5	12193.6	13457.2	14985.7	16704.2	18105.4	18758.4	20456.7	23202.3	22231.8
60°	8204.5	8754.4	9458.1	11338.3	13570.4	16378.7	19664.2	21394.8	21882.1	24639.9	23774.6
62.5°	5250.7	5590.3	6237.3	8008.4	10574.1	14710.7	20141.4	24690.4	24298.1	26997.3	26087.5
65°	3594.8	3813.1	4405.6	5400.3	6835.7	10950.2	18863.6	27161.1	28135.6	30733.6	30042.1
67.5°	2612.2	2778.0	3283.4	4154.8	4454.0	6479.9	14637.9	27047.8	31865.8	34583.2	33507.6
70°	1904.6	2021.8	2446.4	3283.4	3427.0	3604.9	8867.7	22992.1	31784.9	35606.2	34318.3
72.5°	1411.2	1492.1	1777.1	2547.5	2774.0	2434.3	4389.4	16710.3	27312.7	32205.5	31172.4
75°	1021.0	1081.7	1291.9	1949.0	2219.9	1854.0	2189.6	9765.4	19051.6	22654.4	22836.4
77.5°	780.4	827.0	964.4	1427.4	1777.1	1391.0	1358.6	4492.5	9033.4	9077.9	9587.4
80°	626.8	657.1	731.8	1004.8	1362.7	1041.2	885.6	1813.5	2854.8	2416.0	2535.3
82.5°	460.9	511.5	618.7	705.6	974.5	717.7	539.9	915.8	1085.7	934.1	942.2
85°	262.8	297.2	374.0	505.4	622.7	438.7	309.3	406.4	505.4	414.5	370.0
87.5°	93.0	121.4	131.4	198.1	270.9	181.9	119.3	117.3	165.7	123.3	103.1
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: P970803
 CATALOG NUMBER: NAV-SB6C-722-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2
2.5°	5626.7	5616.6	5576.2	5521.6	5465.0	5410.4	5392.2	5353.8	5327.4	5313.3	5329.5
5°	5739.9	5707.6	5612.6	5491.2	5363.9	5226.4	5129.3	5040.4	4975.7	4915.1	4939.3
7.5°	5901.6	5845.1	5681.3	5469.0	5242.6	5014.1	4844.3	4714.9	4628.0	4571.3	4583.5
10°	6089.7	6002.8	5752.1	5434.7	5084.8	4757.3	4557.2	4445.9	4391.4	4361.1	4369.2
12.5°	6306.0	6182.7	5824.9	5355.8	4844.3	4470.2	4332.8	4300.4	4302.4	4304.5	4308.5
15°	6572.9	6401.0	5883.5	5183.9	4530.9	4249.9	4225.6	4278.1	4332.8	4359.0	4357.0
17.5°	6874.2	6631.5	5893.5	4900.8	4223.6	4108.3	4185.2	4298.3	4381.3	4417.6	4425.7
20°	7197.7	6866.1	5820.8	4500.6	3970.8	3993.1	4130.5	4276.1	4367.1	4413.6	4425.7
22.5°	7567.7	7116.8	5646.9	4080.0	3764.6	3867.7	4029.5	4171.0	4266.0	4312.5	4324.7
25°	7990.2	7397.8	5374.0	3726.2	3586.7	3726.2	3887.9	4005.2	4082.1	4124.5	4136.6
27.5°	8459.3	7691.0	5010.1	3445.1	3431.0	3580.6	3714.1	3805.1	3845.5	3877.9	3890.0
30°	8930.3	7957.9	4569.3	3232.8	3295.6	3437.1	3532.2	3572.5	3584.6	3590.8	3604.9
32.5°	9439.8	8188.3	4106.4	3057.0	3166.1	3297.6	3354.2	3372.4	3315.8	3277.3	3289.5
35°	10056.5	8435.0	3653.4	2917.5	3038.8	3152.0	3170.2	3154.0	3087.3	3008.5	3012.5
37.5°	10818.8	8742.3	3291.5	2818.4	2919.5	2994.3	2972.1	2968.0	2974.1	2881.1	2887.1
40°	11752.9	9142.7	3026.6	2741.6	2822.4	2838.6	2775.9	2810.3	2840.7	2699.1	2703.1
42.5°	12790.1	9625.9	2858.8	2689.0	2741.6	2703.1	2606.2	2644.5	2640.5	2454.5	2452.4
45°	13847.4	10151.5	2800.2	2650.6	2666.7	2590.0	2482.8	2492.9	2408.0	2240.1	2246.3
47.5°	14898.8	10715.7	2836.6	2618.3	2573.8	2486.9	2403.9	2359.4	2234.1	2108.7	2108.7
50°	15929.9	11308.0	2970.0	2553.6	2446.4	2395.8	2335.2	2256.3	2122.9	2015.8	2007.7
52.5°	16886.2	11904.5	3119.7	2446.4	2286.7	2317.0	2278.6	2187.6	2056.1	1947.0	1949.0
55°	17791.9	12500.9	3178.3	2298.8	2137.0	2248.2	2226.0	2058.2	1900.6	1811.6	1803.5
57.5°	18778.6	13218.6	3113.6	2110.8	2015.8	2169.4	2084.5	1898.5	1807.5	1740.8	1734.7
60°	20145.4	14344.8	2974.1	1878.3	1900.6	2052.2	1906.6	1829.7	1730.7	1655.9	1651.8
62.5°	22415.8	16445.4	2749.7	1647.8	1765.0	1878.3	1821.6	1744.9	1643.7	1570.9	1570.9
65°	25772.1	19364.9	2327.2	1467.8	1613.5	1708.5	1730.7	1653.8	1548.7	1471.9	1475.9
67.5°	28602.6	21196.7	1761.1	1318.3	1457.8	1570.9	1633.6	1558.8	1447.6	1372.8	1374.8
70°	28446.9	19866.3	1344.5	1170.7	1320.2	1435.5	1516.4	1457.8	1338.4	1267.7	1273.8
72.5°	25266.7	16619.4	1087.7	1021.0	1180.7	1294.0	1391.0	1346.5	1225.2	1156.5	1156.5
75°	18562.3	11797.3	869.4	869.4	1006.9	1146.4	1253.6	1225.2	1114.0	1065.5	1051.3
77.5°	7824.4	4949.4	681.3	721.8	837.0	984.6	1118.1	1128.2	1031.1	1091.8	990.7
80°	2080.4	1364.7	519.6	568.2	657.1	812.7	972.5	968.4	863.4	806.7	750.1
82.5°	792.5	537.8	370.0	400.4	475.1	622.7	770.3	794.6	689.4	596.4	596.4
85°	305.2	230.5	228.5	240.6	277.0	412.5	582.3	602.5	519.6	440.7	454.9
87.5°	78.8	68.8	84.9	80.9	127.4	220.4	333.6	345.7	317.4	184.0	262.8
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)