

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: P970404

Luminaire Tested: **NAV-SB6B-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37054.8 lumens
Efficiency: N/A
Efficacy: 168.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

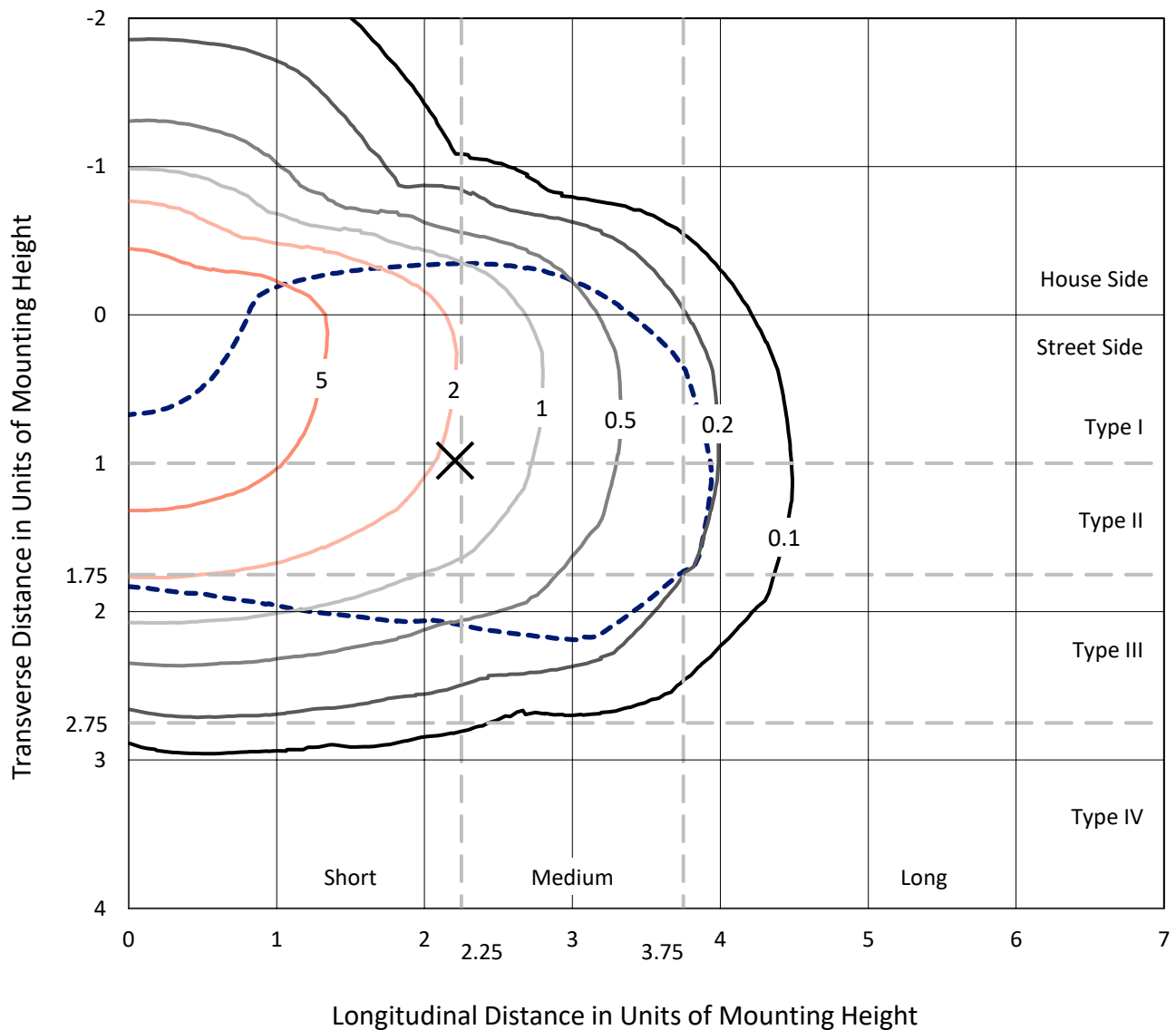
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

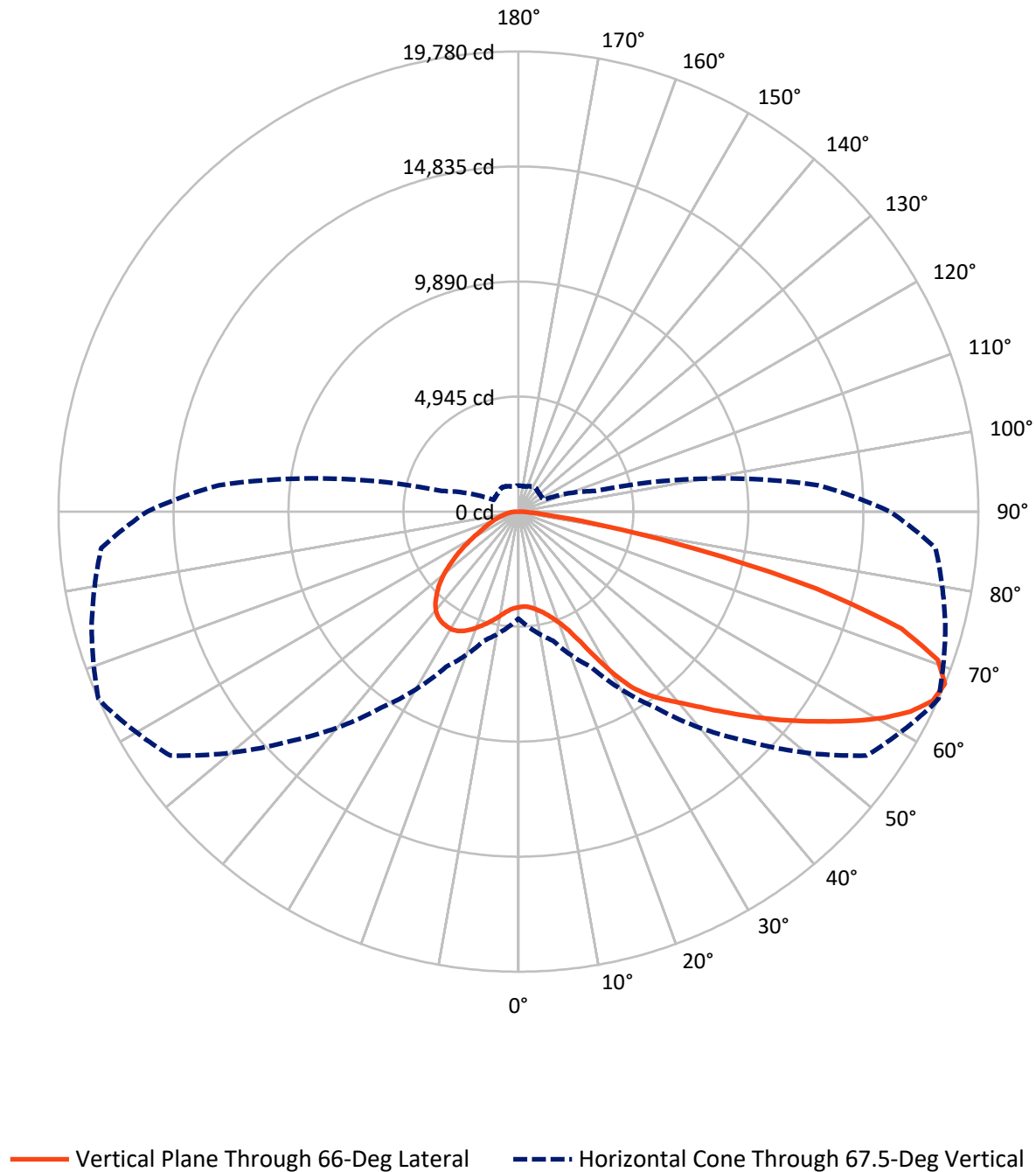
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9213.6	0.0	9213.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27841.2	0.0	27841.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	37054.8	0.0	37054.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.5	1.1
10°-20°	1346.2	3.6
20°-30°	2594.8	7.0
30°-40°	4549.7	12.3
40°-50°	6763.9	18.3
50°-60°	8573.9	23.1
60°-70°	8389.3	22.6
70°-80°	4001.8	10.8
80°-90°	427.7	1.2
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°	37054.8	100.0
0°-180°	37054.8	100.0

Coefficient of Utilization



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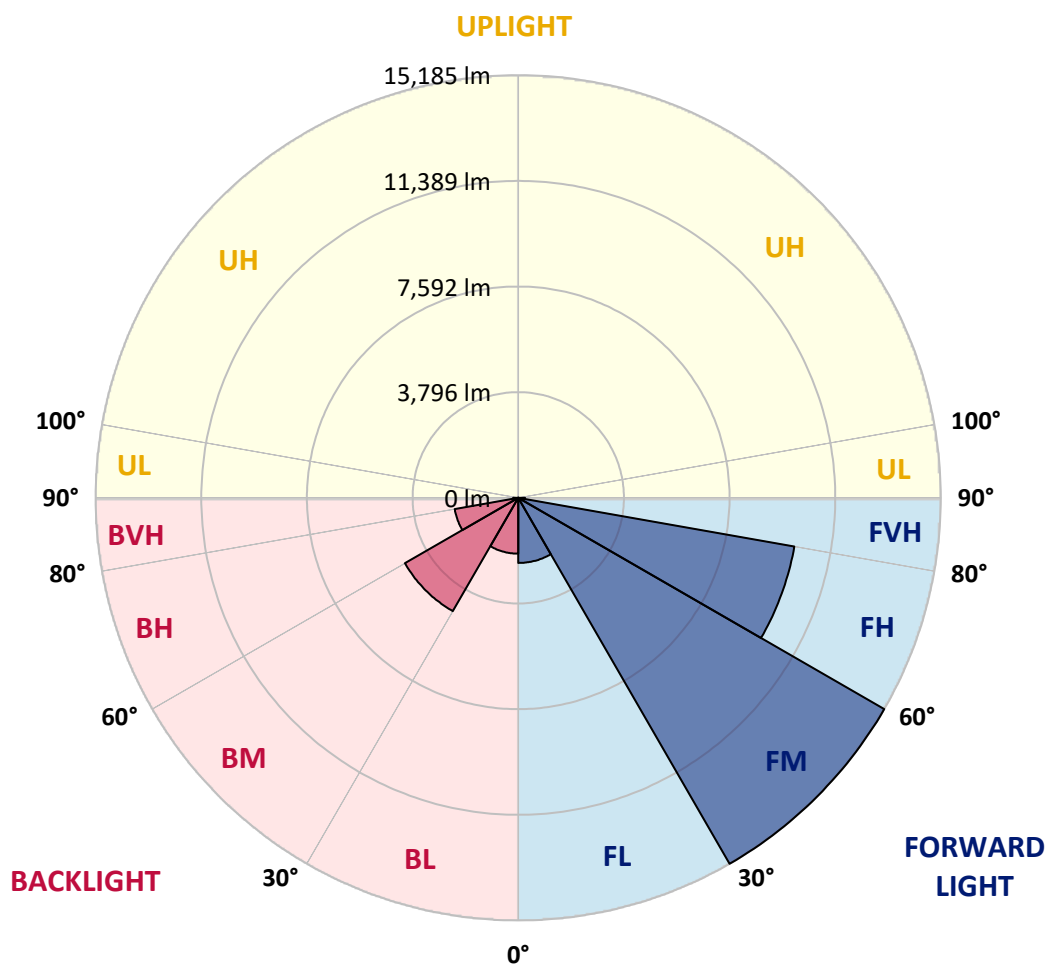
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2341.5	6.3			
FM	(30°-60°)	15184.7	41.0			
FH	(60°-80°)	10072.5	27.2			G4/12000
FVH	(80°-90°)	242.5	0.7			G3/500
BL	(0°-30°)	2007.0	5.4	B3/2500		
BM	(30°-60°)	4702.7	12.7	B3/5000		
BH	(60°-80°)	2318.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	185.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8
2.5°	4067.0	4090.4	4084.5	4074.8	4072.8	4076.7	4082.6	4088.4	4086.5	4096.2	4111.8
5°	4055.3	4078.7	4076.7	4076.7	4084.5	4100.1	4109.8	4119.6	4109.8	4121.5	4142.9
7.5°	4063.1	4080.6	4088.4	4096.2	4115.7	4144.9	4168.3	4189.7	4178.0	4191.6	4218.9
10°	4162.4	4176.1	4183.8	4183.8	4197.5	4230.6	4254.0	4292.9	4283.2	4304.6	4339.6
12.5°	4343.5	4357.1	4357.1	4349.3	4359.0	4380.4	4388.2	4431.1	4413.5	4448.6	4483.7
15°	4565.5	4592.7	4571.3	4557.7	4561.6	4583.0	4581.0	4614.1	4596.6	4625.8	4657.0
17.5°	4810.7	4845.8	4810.7	4808.8	4801.0	4824.4	4826.3	4855.5	4824.4	4845.8	4867.2
20°	5100.8	5149.5	5120.3	5130.0	5112.5	5122.2	5132.0	5174.8	5126.1	5141.7	5135.9
22.5°	5509.7	5568.1	5536.9	5574.0	5562.3	5554.5	5552.5	5628.5	5552.5	5558.4	5501.9
25°	6105.4	6175.5	6121.0	6171.6	6171.6	6196.9	6226.2	6323.4	6196.9	6159.9	6013.9
27.5°	6985.4	7055.5	6948.4	6979.5	6969.8	7032.1	7001.0	7242.4	7106.1	7045.7	6751.8
30°	8044.5	8169.1	7966.6	7958.8	7949.1	8048.4	8093.2	8252.8	8114.6	8054.2	7699.9
32.5°	9189.2	9319.7	9078.3	9008.2	8971.2	9031.6	8994.6	9123.1	9027.7	8934.2	8496.2
35°	10400.3	10528.7	10299.0	10162.7	10014.8	9888.2	9755.8	9789.0	9699.4	9557.2	9103.6
37.5°	11545.0	11780.5	11537.2	11391.2	11118.6	10871.4	10501.4	10347.7	10263.9	10133.6	9676.0
40°	12711.2	12845.5	12660.6	12536.0	12240.0	11852.6	11260.8	10935.6	10822.7	10696.2	10308.7
42.5°	13569.8	13698.2	13599.0	13513.3	13281.6	12831.9	12066.8	11659.9	11496.3	11354.2	11025.2
45°	14251.2	14346.5	14284.3	14315.5	14216.1	13780.0	12902.0	12436.6	12267.3	12094.0	11835.1
47.5°	14525.7	14627.0	14726.2	14911.2	15080.5	14759.3	13799.5	13277.7	13098.6	12921.5	12666.4
50°	14494.5	14597.7	14885.9	15279.2	15804.8	15697.7	14745.6	14173.3	14007.8	13805.3	13569.8
52.5°	14245.3	14362.1	14732.0	15386.2	16223.4	16400.5	15709.4	15098.0	14942.3	14700.9	14465.3
55°	13591.2	13661.3	14216.1	15142.8	16322.6	16891.2	16653.6	16083.2	15927.5	15590.7	15333.6
57.5°	12378.3	12479.5	13287.5	14486.7	16073.4	17224.1	17483.0	17118.9	16969.0	16484.3	16215.6
60°	10795.4	10957.0	11881.8	13384.8	15438.8	17222.2	18236.4	18137.2	18012.5	17364.2	17083.9
62.5°	9004.3	9191.2	10081.0	11827.3	14329.1	16733.4	18707.6	18989.9	18925.6	18176.1	17817.9
65°	6915.4	7043.8	7929.6	9812.3	12602.2	15684.0	18762.1	19572.0	19583.6	18793.3	18201.3
67.5°	4604.4	4974.3	5743.3	7363.1	10289.3	13968.9	18283.1	19667.4	19780.3	19005.4	18008.6
70°	2246.7	2733.5	3486.8	4785.4	7363.1	11338.7	17031.3	18884.7	19135.9	18386.3	16860.0
72.5°	932.5	1090.3	1501.0	2361.6	4226.7	7651.2	14515.9	16762.6	17227.9	16291.5	14175.2
75°	628.8	681.4	858.5	1210.9	1925.5	3773.0	10468.3	12499.0	13248.5	12304.3	10057.6
77.5°	484.7	517.8	624.9	846.9	1144.7	1427.1	5603.2	7532.5	7919.9	7331.9	5233.2
80°	381.6	406.9	467.3	617.2	811.8	763.2	1909.9	3412.8	3636.8	3050.8	1682.1
82.5°	331.0	340.7	334.9	418.6	539.3	445.9	626.9	1259.6	1390.1	1008.5	549.0
85°	239.4	266.7	278.4	258.9	286.2	225.8	257.0	445.9	490.6	438.1	309.5
87.5°	97.4	144.1	177.1	167.4	105.2	64.3	79.8	130.5	150.0	163.5	101.3
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°	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8	4109.8
2.5°	4113.7	4127.4	4137.1	4148.8	4156.6	4168.3	4191.6	4205.3	4207.2	4217.0	4215.0
5°	4150.7	4170.2	4191.6	4222.8	4257.8	4287.1	4331.9	4362.9	4374.6	4384.3	4382.4
7.5°	4230.6	4257.8	4296.8	4351.2	4401.9	4440.8	4495.3	4532.3	4569.3	4583.0	4584.9
10°	4349.3	4388.2	4444.7	4518.7	4573.2	4623.9	4680.3	4711.4	4748.4	4764.0	4771.8
12.5°	4497.3	4538.2	4612.2	4715.3	4765.9	4801.0	4820.5	4812.7	4820.5	4834.1	4838.0
15°	4666.7	4711.4	4795.2	4906.2	4941.2	4910.1	4867.2	4828.3	4822.4	4826.3	4839.9
17.5°	4867.2	4900.3	4997.6	5091.1	5065.8	4937.3	4843.8	4781.5	4750.4	4740.6	4754.3
20°	5147.5	5147.5	5227.4	5285.8	5116.4	4898.4	4752.3	4651.1	4586.9	4559.6	4553.8
22.5°	5488.3	5457.1	5507.7	5466.8	5106.7	4789.3	4586.9	4411.6	4314.3	4275.4	4269.5
25°	5920.5	5883.5	5869.9	5616.8	5036.5	4616.1	4287.1	4074.8	3989.2	3967.8	3971.7
27.5°	6572.7	6479.2	6302.0	5698.5	4908.1	4343.5	3936.6	3739.9	3691.3	3693.3	3699.1
30°	7441.0	7254.0	6819.9	5712.1	4697.8	3958.0	3578.4	3438.2	3414.8	3424.5	3457.6
32.5°	8245.0	8067.9	7349.5	5649.8	4374.6	3580.3	3257.1	3163.7	3128.6	3140.3	3155.9
35°	8875.8	8827.2	7840.1	5562.3	3977.5	3226.0	2969.0	2889.2	2821.0	2805.4	2817.1
37.5°	9471.6	9452.1	8208.1	5439.6	3584.2	2974.9	2737.3	2632.2	2532.9	2478.3	2480.3
40°	10125.8	10106.3	8449.5	5250.8	3235.7	2756.7	2529.0	2390.8	2268.1	2168.8	2178.5
42.5°	10861.6	10746.8	8564.3	4980.2	2939.8	2571.8	2359.7	2172.7	2011.2	1919.6	1925.5
45°	11665.7	11406.8	8562.3	4635.6	2690.6	2402.5	2178.5	1913.8	1763.9	1678.2	1674.3
47.5°	12518.4	12037.6	8457.3	4254.0	2449.1	2215.5	1898.2	1695.8	1596.4	1543.9	1532.2
50°	13398.4	12627.5	8278.1	3815.9	2201.9	2003.4	1723.0	1584.8	1508.8	1460.1	1442.7
52.5°	14225.9	13162.8	8062.0	3319.5	1950.8	1796.9	1645.1	1538.0	1458.2	1403.7	1380.4
55°	14994.8	13624.3	7756.4	2811.3	1746.4	1658.8	1608.1	1518.5	1427.1	1362.8	1337.5
57.5°	15678.2	13924.1	7228.8	2334.3	1600.3	1563.3	1569.2	1485.4	1380.4	1325.8	1290.8
60°	16246.8	14144.1	6448.1	1892.4	1481.5	1469.8	1508.8	1423.2	1300.5	1238.2	1210.9
62.5°	16587.4	14140.2	5490.2	1549.7	1380.4	1384.3	1429.1	1345.3	1220.7	1162.2	1144.7
65°	16558.3	13793.6	4438.9	1325.8	1283.0	1286.9	1345.3	1259.6	1154.5	1119.5	1117.6
67.5°	15972.2	12948.7	3405.0	1179.8	1175.9	1193.4	1261.6	1201.2	1113.7	1109.8	1115.6
70°	14385.5	11194.5	2453.0	1063.0	1065.0	1090.3	1179.8	1164.2	1092.2	1100.0	1098.1
72.5°	11535.2	8535.1	1647.1	940.3	942.3	983.2	1102.0	1135.0	1070.8	1173.9	1189.5
75°	7682.4	5322.7	1059.1	809.9	811.8	864.4	1033.8	1078.6	1012.4	1170.0	1179.8
77.5°	3691.3	2392.8	767.1	681.4	681.4	730.1	893.6	965.7	862.4	909.2	833.2
80°	1275.2	899.4	603.5	549.0	537.3	570.4	753.5	837.1	743.7	685.3	642.5
82.5°	502.2	467.3	484.7	426.4	387.4	408.9	586.0	691.2	547.0	494.5	492.5
85°	288.1	303.7	342.7	282.3	223.9	251.1	430.3	496.4	412.8	364.1	371.9
87.5°	77.9	107.1	157.7	146.1	101.3	107.1	204.4	274.5	237.5	183.0	188.8
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)