

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: P970346

Luminaire Tested: **NAV-SB6B-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-730-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34932 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

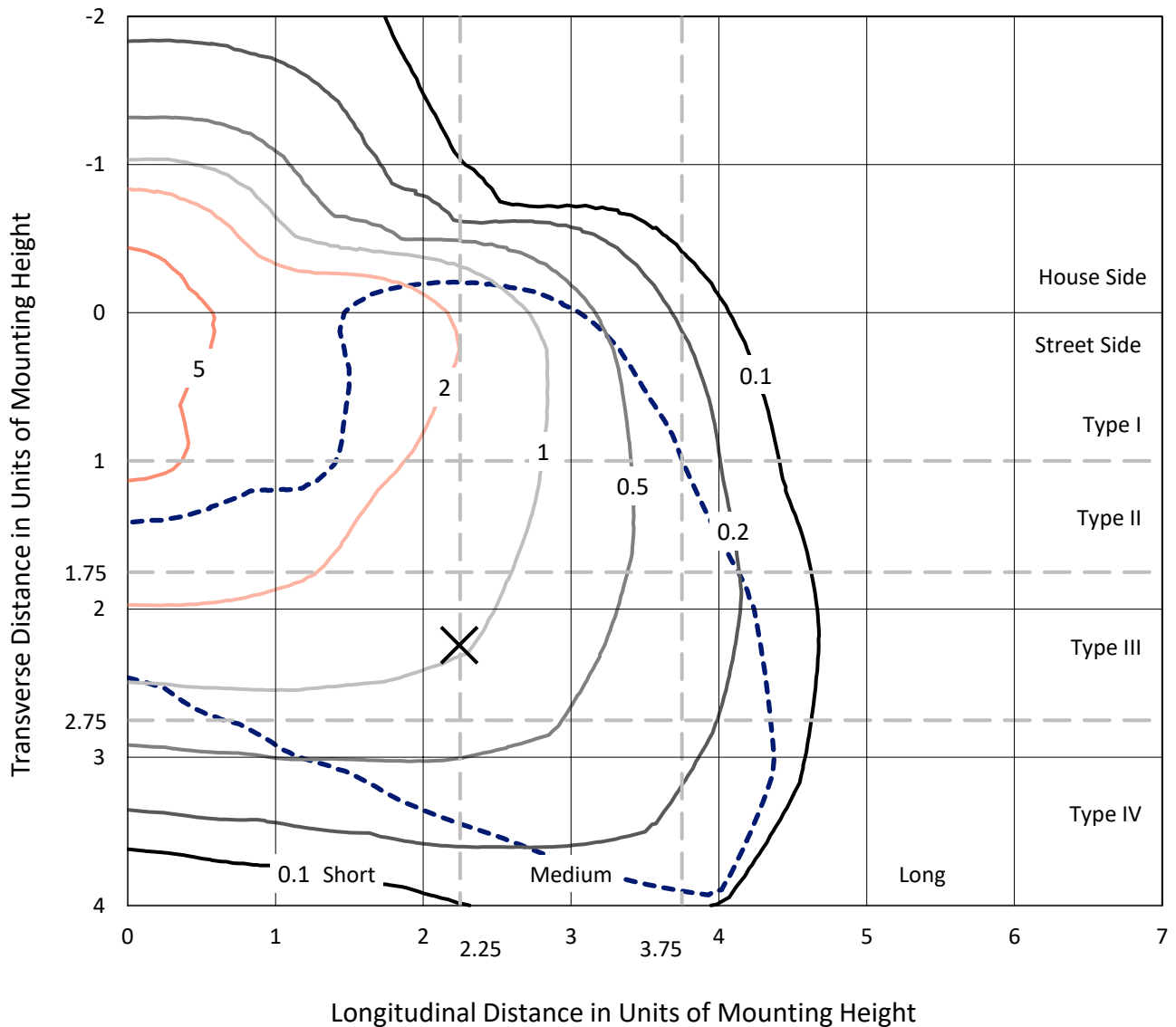
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

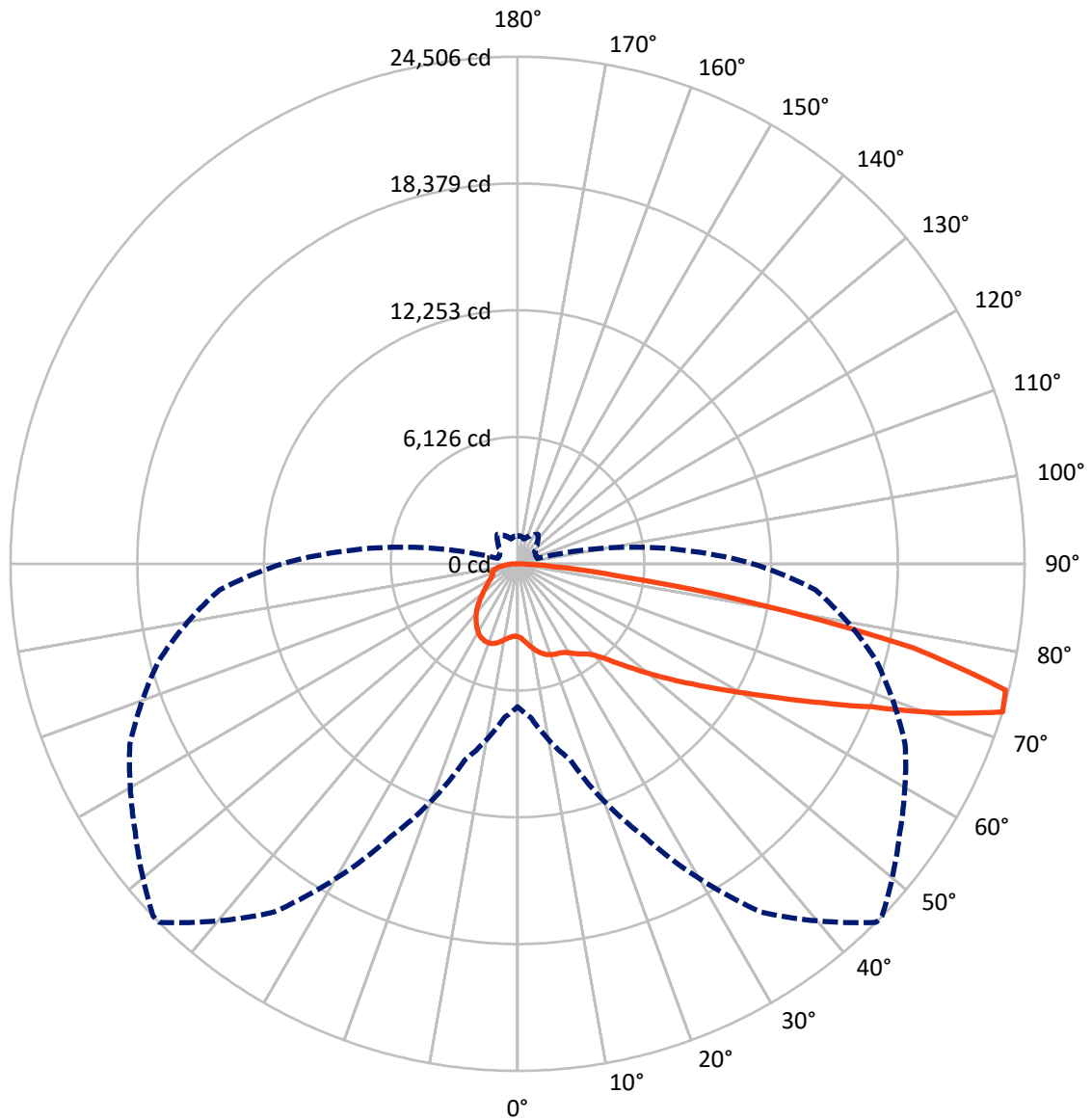
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7896.9	0.0	7896.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27035.1	0.0	27035.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	34932.0	0.0	34932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.7	1.0
10°-20°	1195.8	3.4
20°-30°	2080.2	6.0
30°-40°	2982.2	8.5
40°-50°	4199.0	12.0
50°-60°	6431.7	18.4
60°-70°	9317.3	26.7
70°-80°	7440.4	21.3
80°-90°	926.7	2.7
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°	34932.0	100.0
0°-180°	34932.0	100.0

Coefficient of Utilization

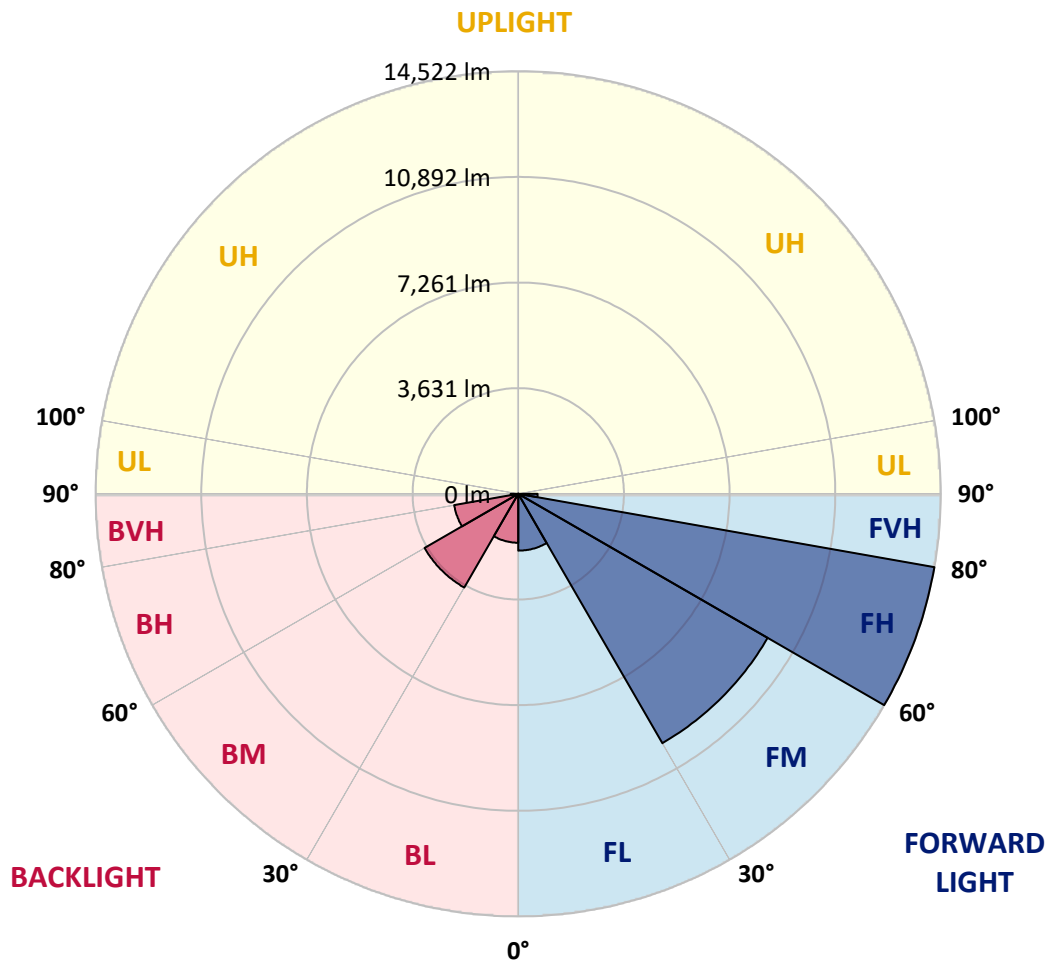


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.4	5.6			
FM (30°-60°)	9894.6	28.3			
FH (60°-80°)	14522.3	41.6			G5
FVH (80°-90°)	664.8	1.9			G4/750
BL (0°-30°)	1681.3	4.8	B3/2500		
BM (30°-60°)	3718.3	10.6	B3/5000		
BH (60°-80°)	2235.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	261.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0
2.5°	3662.0	3685.9	3663.9	3643.6	3634.3	3610.5	3608.6	3593.9	3584.7	3558.9	3551.5
5°	3917.8	3949.0	3912.2	3871.7	3834.9	3776.1	3768.7	3726.4	3678.5	3623.4	3592.0
7.5°	4206.7	4234.3	4191.9	4131.3	4066.8	3969.3	3967.5	3890.2	3814.7	3720.9	3667.4
10°	4458.8	4495.5	4438.6	4355.7	4274.8	4164.4	4151.5	4063.1	3967.5	3846.0	3765.0
12.5°	4681.5	4707.2	4652.0	4550.8	4456.9	4346.5	4330.0	4232.4	4125.7	3987.7	3884.6
15°	4858.1	4891.2	4817.6	4709.1	4609.6	4501.1	4486.4	4398.1	4291.4	4145.9	4013.5
17.5°	4974.0	5001.6	4926.2	4804.7	4709.1	4618.9	4607.8	4534.2	4440.4	4293.1	4151.5
20°	5018.2	5047.6	4968.5	4845.2	4756.9	4686.9	4681.5	4628.1	4563.7	4429.3	4285.8
22.5°	5062.4	5089.9	4986.9	4858.1	4780.8	4736.6	4734.8	4699.8	4674.1	4563.7	4423.8
25°	5240.8	5248.2	5110.2	4924.3	4813.9	4775.3	4773.4	4771.6	4782.6	4696.1	4572.8
27.5°	5395.4	5393.5	5275.8	5101.0	4929.8	4848.9	4847.0	4865.5	4900.4	4828.7	4727.4
30°	5621.8	5601.5	5461.7	5279.5	5123.1	4997.9	4986.9	4970.3	4997.9	4940.9	4882.0
32.5°	6102.0	6037.7	5811.3	5487.4	5283.2	5187.5	5172.8	5069.8	5080.7	5045.8	5016.3
35°	6790.3	6705.7	6403.9	5881.2	5481.9	5345.8	5338.4	5207.7	5185.7	5154.3	5165.4
37.5°	7609.2	7504.3	7152.8	6451.7	5824.2	5529.8	5518.7	5400.9	5310.7	5277.6	5340.2
40°	8431.8	8299.2	8008.5	7147.3	6328.5	5837.1	5802.1	5623.7	5520.5	5465.4	5597.8
42.5°	9230.3	9119.9	8871.6	7927.6	6950.4	6286.1	6208.8	5903.3	5826.0	5774.5	6013.8
45°	9937.0	9837.6	9655.5	8761.1	7679.1	6897.0	6821.6	6322.9	6298.9	6298.9	6644.9
47.5°	10511.2	10489.0	10295.8	9611.3	8538.5	7592.6	7462.0	6906.2	6970.6	7070.0	7541.1
50°	11147.9	11087.1	10881.0	10448.5	9548.7	8389.4	8282.7	7622.1	7863.1	8135.4	8836.6
52.5°	11733.1	11766.2	11536.2	11320.8	10689.6	9278.2	9090.5	8466.7	8987.5	9438.3	10354.8
55°	12334.7	12336.6	12272.2	12242.8	11885.8	10260.9	10054.7	9482.5	10310.6	10870.0	12125.0
57.5°	12899.7	12903.4	12999.0	13258.6	13273.2	11394.4	11160.7	10730.1	11780.8	12351.4	13950.5
60°	13403.9	13429.7	13691.0	14298.2	14493.3	12693.6	12472.8	12204.2	13300.9	13875.0	15869.8
62.5°	13573.3	13667.0	14248.5	15111.6	15698.6	14287.2	14070.1	13910.0	14898.2	15431.8	17474.4
65°	13286.2	13501.5	14625.8	15783.3	16938.9	16180.8	15965.5	15790.6	16558.1	17060.4	18792.0
67.5°	12581.4	12859.2	14603.7	16488.0	18444.2	18458.9	18258.3	17848.0	18337.5	18530.7	19220.8
70°	10724.6	11140.5	13317.4	16751.3	20172.1	21574.4	21381.1	20324.8	20113.3	19178.5	18013.6
72.5°	6909.9	7469.3	9806.4	14585.3	20556.7	24505.8	24494.7	22560.7	20674.5	17919.8	14447.3
75°	2521.1	2863.3	4556.3	9154.9	17255.5	24356.8	24428.5	22177.9	18872.9	13841.9	9000.3
77.5°	918.3	1004.7	1486.9	3518.4	10612.3	19542.8	19691.9	17730.2	13433.3	6946.7	3566.3
80°	482.2	529.9	761.9	1365.4	4547.1	11606.1	11839.8	10536.9	6313.7	2092.3	1069.2
82.5°	266.8	288.9	426.9	741.6	2048.2	4962.9	5102.9	4162.5	2221.1	886.9	441.7
85°	143.5	152.7	200.6	404.9	1001.0	1720.6	1759.2	1243.9	885.1	520.8	213.5
87.5°	42.3	51.6	66.2	128.8	392.0	386.4	395.6	246.6	349.6	263.1	69.9
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°	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0	3524.0
2.5°	3540.6	3535.0	3514.7	3505.6	3494.5	3492.7	3501.9	3503.8	3505.6	3507.4	3514.7
5°	3573.7	3555.2	3536.9	3525.8	3529.5	3531.3	3549.7	3562.6	3571.8	3579.2	3582.9
7.5°	3638.0	3623.4	3592.0	3590.2	3595.7	3612.3	3636.2	3665.6	3682.2	3695.1	3698.8
10°	3733.8	3706.1	3669.3	3674.8	3685.9	3709.8	3759.5	3783.4	3811.1	3834.9	3829.4
12.5°	3831.2	3807.4	3765.0	3768.7	3787.1	3829.4	3877.3	3906.7	3925.1	3943.5	3950.9
15°	3958.2	3915.9	3869.9	3869.9	3903.0	3949.0	3971.2	3995.0	4006.1	4026.3	4033.7
17.5°	4088.9	4033.7	3973.0	3969.3	4009.8	4031.8	4044.8	4048.4	4052.1	4074.2	4081.6
20°	4219.5	4158.8	4072.3	4064.9	4074.2	4070.5	4068.6	4064.9	4070.5	4098.1	4109.1
22.5°	4348.4	4278.5	4158.8	4125.7	4099.9	4064.9	4063.1	4061.3	4064.9	4092.6	4111.0
25°	4499.2	4414.6	4254.5	4155.1	4068.6	4020.8	4026.3	4028.1	4031.8	4054.0	4083.4
27.5°	4663.0	4569.1	4342.8	4145.9	3989.5	3956.4	3947.2	3952.7	3965.6	4000.6	4035.5
30°	4826.8	4716.4	4423.8	4109.1	3890.2	3844.2	3814.7	3827.6	3868.0	3903.0	3941.6
32.5°	4975.9	4865.5	4488.2	4028.1	3763.2	3691.4	3652.8	3669.3	3709.8	3722.7	3768.7
35°	5150.7	5025.6	4515.8	3899.4	3625.2	3514.7	3463.3	3439.3	3459.6	3446.7	3487.2
37.5°	5345.8	5215.1	4512.2	3730.1	3463.3	3336.3	3264.5	3174.3	3132.0	3087.8	3115.5
40°	5634.6	5447.0	4468.0	3525.8	3262.7	3146.7	3017.9	2865.2	2769.4	2683.0	2688.5
42.5°	6028.4	5769.0	4387.0	3301.3	3036.4	2927.7	2752.9	2574.4	2423.5	2280.0	2267.1
45°	6615.5	6190.4	4285.8	3062.1	2791.6	2684.8	2495.3	2294.7	2123.6	1939.6	1917.5
47.5°	7462.0	6757.2	4190.1	2789.7	2533.9	2436.4	2265.2	2079.4	1877.0	1698.5	1678.2
50°	8625.0	7570.5	4101.7	2524.8	2280.0	2206.4	2070.2	1880.7	1676.4	1532.9	1523.7
52.5°	10104.4	8676.5	4064.9	2268.9	2042.6	2015.0	1906.4	1729.8	1536.6	1415.1	1405.9
55°	11803.0	9999.6	4064.9	2024.2	1834.6	1843.9	1768.4	1604.6	1437.2	1328.6	1317.5
57.5°	13536.5	11339.3	3991.3	1797.8	1658.0	1696.7	1648.8	1505.3	1354.3	1242.1	1223.7
60°	15133.7	12461.7	3693.3	1591.7	1501.6	1562.3	1531.0	1407.7	1223.7	1129.9	1115.2
62.5°	16361.2	13094.8	3119.1	1428.0	1372.8	1442.7	1426.2	1278.9	1199.8	1161.1	1148.3
65°	16975.7	12991.8	2384.9	1282.6	1264.2	1372.8	1337.8	1332.3	1269.8	1225.6	1210.8
67.5°	16598.4	12104.7	1729.8	1175.9	1201.6	1308.4	1442.7	1464.8	1348.9	1262.4	1247.6
70°	14944.2	10500.1	1288.1	1074.7	1122.5	1310.3	1645.1	1532.9	1323.1	1221.9	1205.3
72.5°	11368.7	7830.0	999.3	967.9	1019.5	1319.4	1735.3	1501.6	1249.5	1350.7	1339.7
75°	6501.4	4298.6	802.4	837.3	890.6	1233.0	1689.3	1420.6	1192.5	1240.2	1240.2
77.5°	2478.8	1652.5	662.5	708.5	715.9	1076.6	1615.7	1415.1	1135.4	1107.8	1010.2
80°	859.4	646.0	548.4	563.1	553.9	956.9	1549.4	1231.1	929.3	831.8	804.1
82.5°	351.5	322.1	434.3	415.8	393.8	743.4	1251.3	1006.6	760.0	671.7	664.3
85°	152.7	204.3	287.1	252.2	228.2	515.3	1002.9	852.0	642.3	553.9	552.1
87.5°	31.3	77.3	121.5	114.1	117.8	344.1	712.2	605.5	454.5	340.4	266.8
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)