

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: P970311

Luminaire Tested: **NAV-SB6B-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970311
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-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32486.4 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

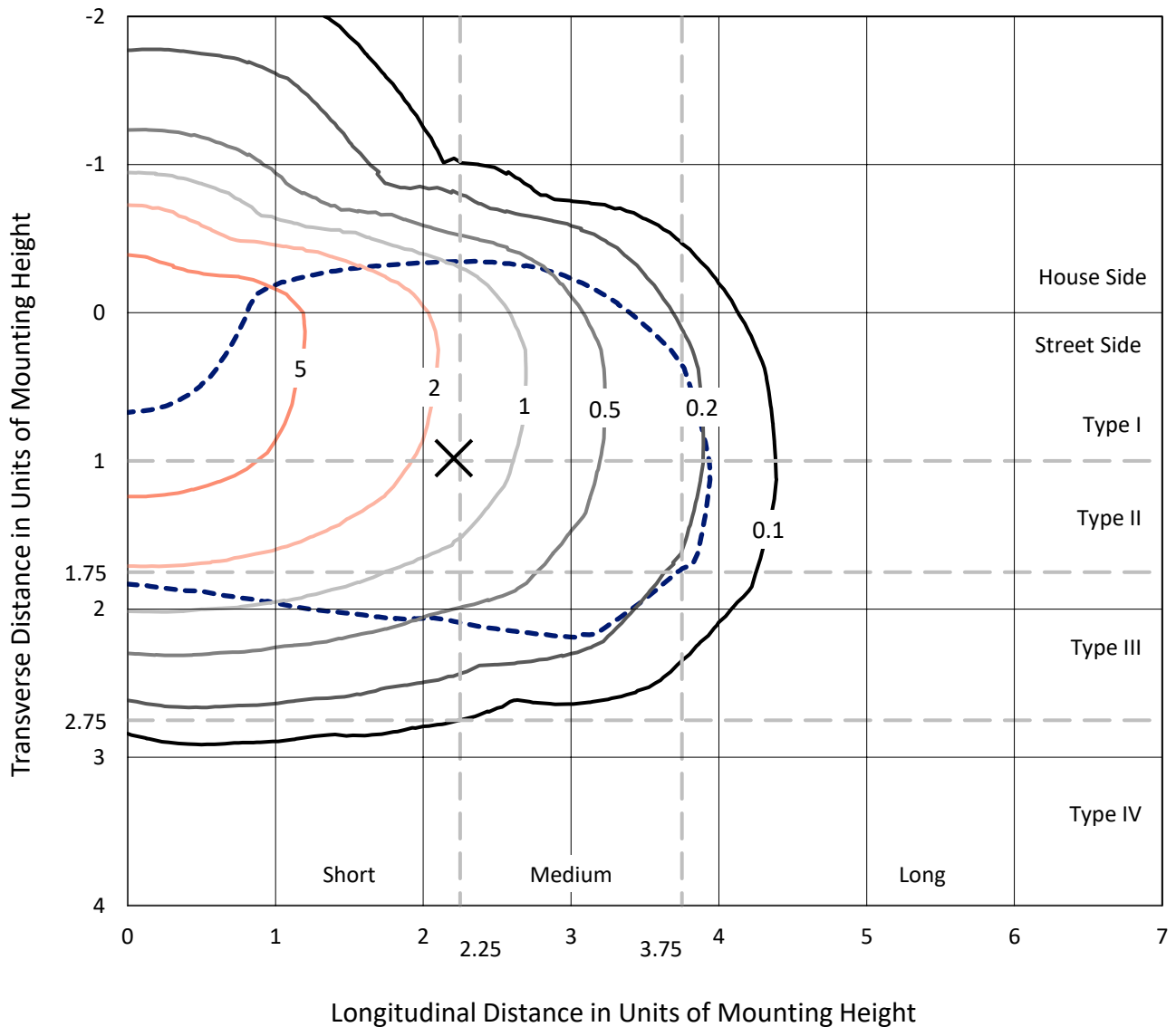
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

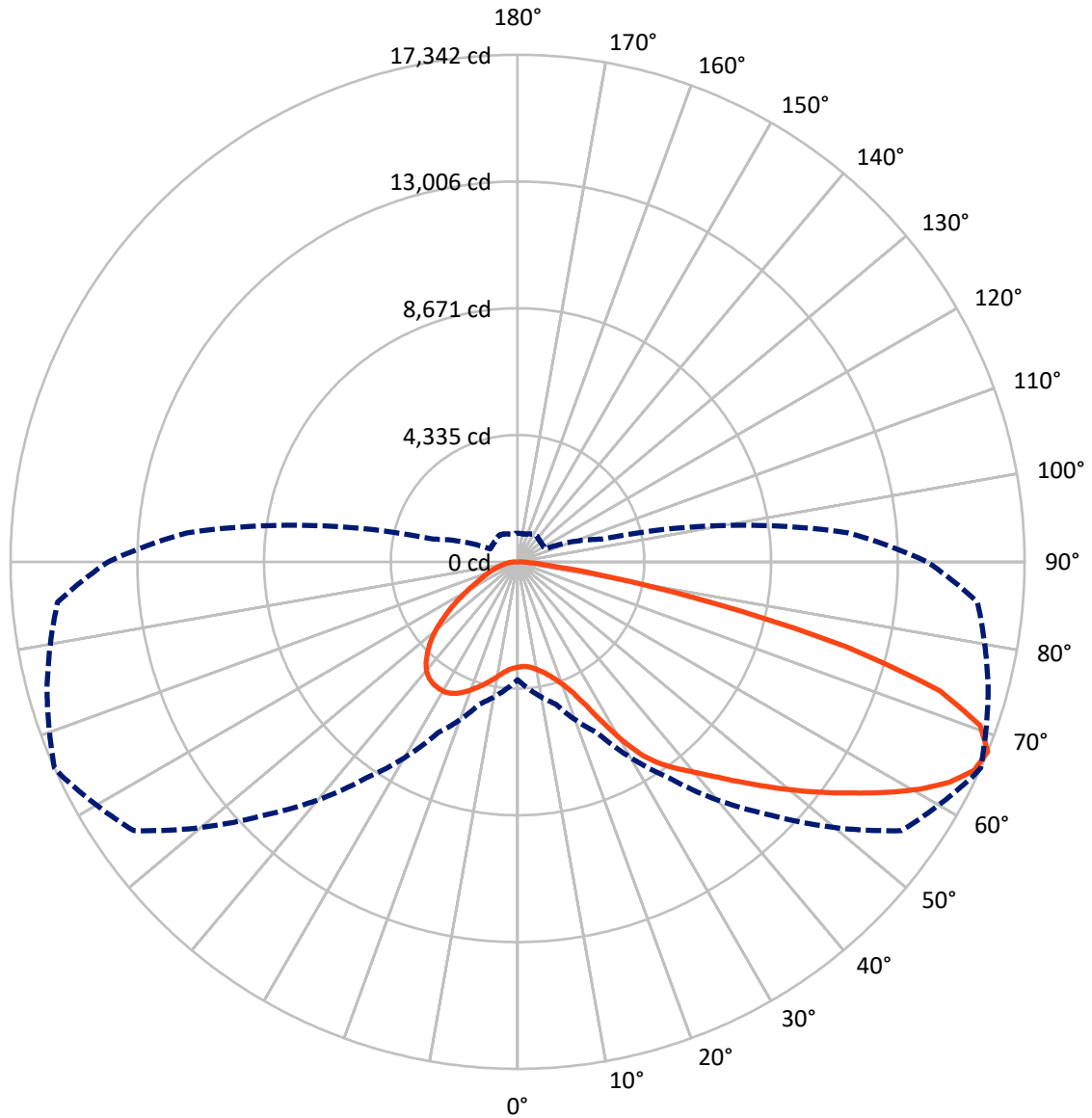
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8077.6	0.0	8077.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	24408.7	0.0	24408.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	32486.4	0.0	32486.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	1.1
10°-20°	1180.3	3.6
20°-30°	2274.9	7.0
30°-40°	3988.8	12.3
40°-50°	5930.0	18.3
50°-60°	7516.8	23.1
60°-70°	7355.0	22.6
70°-80°	3508.4	10.8
80°-90°	375.0	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°	32486.4	100.0
0°-180°	32486.4	100.0

Coefficient of Utilization

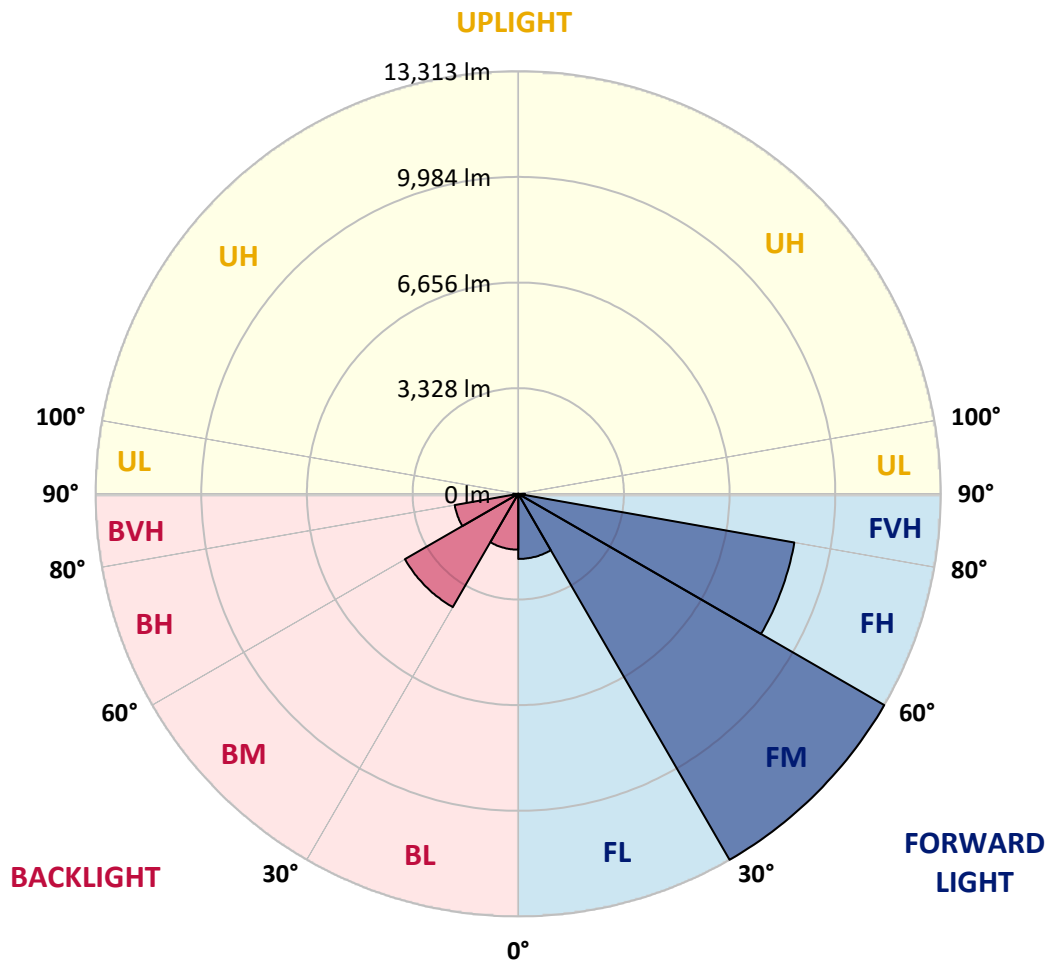


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.8	6.3			
FM (30°-60°)	13312.6	41.0			
FH (60°-80°)	8830.7	27.2			G4/12000
FVH (80°-90°)	212.6	0.7			G2/225
BL (0°-30°)	1759.6	5.4	B3/2500		
BM (30°-60°)	4122.9	12.7	B3/5000		
BH (60°-80°)	2032.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	162.4	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°	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2
2.5°	3565.6	3586.1	3580.9	3572.4	3570.7	3574.2	3579.3	3584.4	3582.7	3591.2	3604.8
5°	3555.4	3575.8	3574.2	3574.2	3580.9	3594.7	3603.2	3611.7	3603.2	3613.4	3632.2
7.5°	3562.2	3577.6	3584.4	3591.2	3608.3	3633.9	3654.3	3673.2	3662.9	3674.8	3698.7
10°	3649.2	3661.2	3668.1	3668.1	3680.0	3709.0	3729.5	3763.6	3755.1	3773.8	3804.6
12.5°	3808.0	3820.0	3820.0	3813.1	3821.6	3840.4	3847.2	3884.7	3869.5	3900.1	3930.9
15°	4002.5	4026.5	4007.6	3995.8	3999.1	4017.9	4016.3	4045.3	4029.9	4055.5	4082.8
17.5°	4217.7	4248.3	4217.7	4215.9	4209.1	4229.6	4231.3	4256.9	4229.6	4248.3	4267.2
20°	4472.0	4514.6	4489.0	4497.6	4482.2	4490.7	4499.2	4536.9	4494.1	4507.8	4502.7
22.5°	4830.4	4881.6	4854.3	4886.7	4876.4	4869.7	4867.9	4934.6	4867.9	4873.1	4823.5
25°	5352.7	5414.2	5366.4	5410.8	5410.8	5432.9	5458.5	5543.8	5432.9	5400.5	5272.5
27.5°	6124.2	6185.7	6091.8	6119.0	6110.5	6165.2	6137.8	6349.5	6230.1	6177.1	5919.4
30°	7052.7	7162.0	6984.5	6977.6	6969.1	7056.1	7095.4	7235.4	7114.1	7061.2	6750.6
32.5°	8056.3	8170.7	7959.0	7897.6	7865.1	7918.1	7885.6	7998.3	7914.6	7832.7	7448.7
35°	9118.0	9230.6	9029.2	8909.8	8780.0	8669.1	8553.0	8582.0	8503.5	8379.0	7981.3
37.5°	10121.7	10328.2	10114.8	9986.8	9747.9	9531.1	9206.8	9072.0	8998.5	8884.2	8483.1
40°	11144.0	11261.8	11099.6	10990.5	10731.0	10391.3	9872.4	9587.4	9488.4	9377.4	9037.8
42.5°	11896.8	12009.4	11922.4	11847.3	11644.1	11249.9	10579.0	10222.3	10078.9	9954.4	9666.0
45°	12494.1	12577.8	12523.1	12550.5	12463.5	12081.1	11311.3	10903.3	10754.9	10603.0	10376.0
47.5°	12734.8	12823.6	12910.6	13072.7	13221.3	12939.6	12098.2	11640.7	11483.7	11328.4	11104.7
50°	12707.5	12797.9	13050.6	13395.4	13856.3	13762.4	12927.7	12425.9	12280.8	12103.3	11896.8
52.5°	12489.0	12591.4	12915.7	13489.2	14223.2	14378.5	13772.6	13236.6	13100.1	12888.5	12681.9
55°	11915.5	11977.0	12463.5	13275.9	14310.2	14808.7	14600.4	14100.3	13963.8	13668.5	13443.2
57.5°	10852.2	10941.0	11649.2	12700.7	14091.8	15100.5	15327.5	15008.4	14877.0	14451.9	14216.3
60°	9464.5	9606.2	10416.9	11734.6	13535.3	15098.9	15988.1	15901.0	15791.8	15223.4	14977.6
62.5°	7894.2	8058.0	8838.1	10369.1	12562.4	14670.4	16401.1	16648.7	16592.3	15935.2	15621.1
65°	6062.8	6175.4	6952.0	8602.5	11048.5	13750.4	16448.9	17159.0	17169.3	16476.3	15957.4
67.5°	4036.7	4361.0	5035.2	6455.3	9020.7	12246.7	16029.1	17242.7	17341.7	16662.3	15788.4
70°	1969.7	2396.4	3057.0	4195.4	6455.3	9940.8	14931.6	16556.5	16776.7	16119.6	14781.3
72.5°	817.5	955.8	1316.0	2070.4	3705.6	6707.9	12726.3	14696.0	15103.9	14283.0	12427.6
75°	551.3	597.4	752.8	1061.7	1688.1	3307.9	9177.7	10958.0	11615.1	10787.3	8817.6
77.5°	425.0	454.0	547.9	742.5	1003.7	1251.1	4912.3	6603.8	6943.5	6428.0	4588.0
80°	334.6	356.7	409.7	541.1	711.8	669.1	1674.4	2992.1	3188.4	2674.6	1474.8
82.5°	290.2	298.7	293.6	367.0	472.8	390.8	549.6	1104.3	1218.7	884.2	481.3
85°	209.9	233.8	244.1	227.0	250.9	198.0	225.3	390.8	430.1	384.1	271.4
87.5°	85.4	126.3	155.3	146.8	92.1	56.4	70.0	114.4	131.4	143.4	88.8
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°	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2	3603.2
2.5°	3606.6	3618.6	3627.1	3637.3	3644.1	3654.3	3674.8	3686.8	3688.5	3697.1	3695.3
5°	3639.1	3656.1	3674.8	3702.2	3732.8	3758.5	3797.7	3825.1	3835.3	3843.9	3842.1
7.5°	3709.0	3732.8	3767.0	3814.8	3859.2	3893.4	3941.1	3973.5	4006.0	4017.9	4019.6
10°	3813.1	3847.2	3896.7	3961.6	4009.4	4053.8	4103.3	4130.5	4163.0	4176.7	4183.5
12.5°	3942.9	3978.6	4043.5	4134.0	4178.4	4209.1	4226.2	4219.3	4226.2	4238.1	4241.6
15°	4091.3	4130.5	4203.9	4301.3	4332.0	4304.7	4267.2	4233.0	4227.9	4231.3	4243.2
17.5°	4267.2	4296.2	4381.5	4463.5	4441.2	4328.6	4246.7	4192.0	4164.7	4156.2	4168.2
20°	4512.9	4512.9	4582.9	4634.1	4485.6	4294.4	4166.4	4077.7	4021.4	3997.4	3992.4
22.5°	4811.7	4784.3	4828.7	4792.8	4477.1	4198.8	4021.4	3867.7	3782.4	3748.2	3743.1
25°	5190.5	5158.1	5146.1	4924.3	4415.6	4046.9	3758.5	3572.4	3497.3	3478.5	3482.0
27.5°	5762.3	5680.4	5525.1	4996.0	4303.0	3808.0	3451.3	3278.9	3236.2	3237.9	3243.0
30°	6523.6	6359.7	5979.1	5007.9	4118.7	3470.0	3137.2	3014.3	2993.8	3002.3	3031.3
32.5°	7228.5	7073.2	6443.4	4953.3	3835.3	3138.9	2855.5	2773.6	2742.9	2753.1	2766.8
35°	7781.5	7738.9	6873.4	4876.4	3487.0	2828.3	2603.0	2533.0	2473.2	2459.6	2469.8
37.5°	8303.8	8286.8	7196.1	4768.9	3142.3	2608.1	2399.8	2307.7	2220.7	2172.8	2174.5
40°	8877.3	8860.3	7407.8	4603.4	2836.8	2417.0	2217.2	2096.0	1988.5	1901.5	1910.0
42.5°	9522.6	9421.8	7508.4	4366.1	2577.4	2254.8	2068.7	1904.9	1763.2	1682.9	1688.1
45°	10227.4	10000.4	7506.7	4064.0	2358.8	2106.3	1910.0	1677.8	1546.4	1471.3	1467.9
47.5°	10975.1	10553.5	7414.5	3729.5	2147.2	1942.4	1664.2	1486.7	1399.6	1353.5	1343.3
50°	11746.6	11070.6	7257.5	3345.4	1930.5	1756.3	1510.5	1389.4	1322.8	1280.1	1264.7
52.5°	12472.0	11540.1	7068.1	2910.2	1710.3	1575.4	1442.3	1348.4	1278.5	1230.6	1210.1
55°	13146.1	11944.5	6800.1	2464.7	1531.0	1454.3	1409.9	1331.4	1251.1	1194.8	1172.6
57.5°	13745.2	12207.4	6337.6	2046.5	1403.0	1370.6	1375.8	1302.4	1210.1	1162.4	1131.6
60°	14243.7	12400.2	5653.1	1659.1	1298.9	1288.6	1322.8	1247.7	1140.2	1085.6	1061.7
62.5°	14542.4	12396.9	4813.3	1358.6	1210.1	1213.6	1252.9	1179.5	1070.2	1019.0	1003.7
65°	14516.8	12093.1	3891.6	1162.4	1124.8	1128.2	1179.5	1104.3	1012.2	981.4	979.7
67.5°	14003.0	11352.3	2985.3	1034.3	1030.9	1046.3	1106.1	1053.1	976.3	972.9	978.1
70°	12611.9	9814.4	2150.7	931.9	933.7	955.8	1034.3	1020.7	957.6	964.4	962.7
72.5°	10113.1	7482.8	1444.0	824.4	826.2	861.9	966.1	995.1	938.8	1029.2	1042.9
75°	6735.3	4666.5	928.5	710.0	711.8	757.9	906.3	945.6	887.5	1025.8	1034.3
77.5°	3236.2	2097.8	672.5	597.4	597.4	640.1	783.4	846.6	756.1	797.1	730.5
80°	1118.0	788.5	529.1	481.3	471.1	500.1	660.5	733.9	652.0	600.9	563.2
82.5°	440.3	409.7	425.0	373.8	339.7	358.4	513.7	606.0	479.6	433.6	431.8
85°	252.7	266.3	300.4	247.5	196.3	220.2	377.2	435.2	361.8	319.2	326.1
87.5°	68.3	93.9	138.3	128.0	88.8	93.9	179.2	240.7	208.3	160.4	165.5
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)