

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: P885111

Luminaire Tested: **NAV-SB6B-727-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30614 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

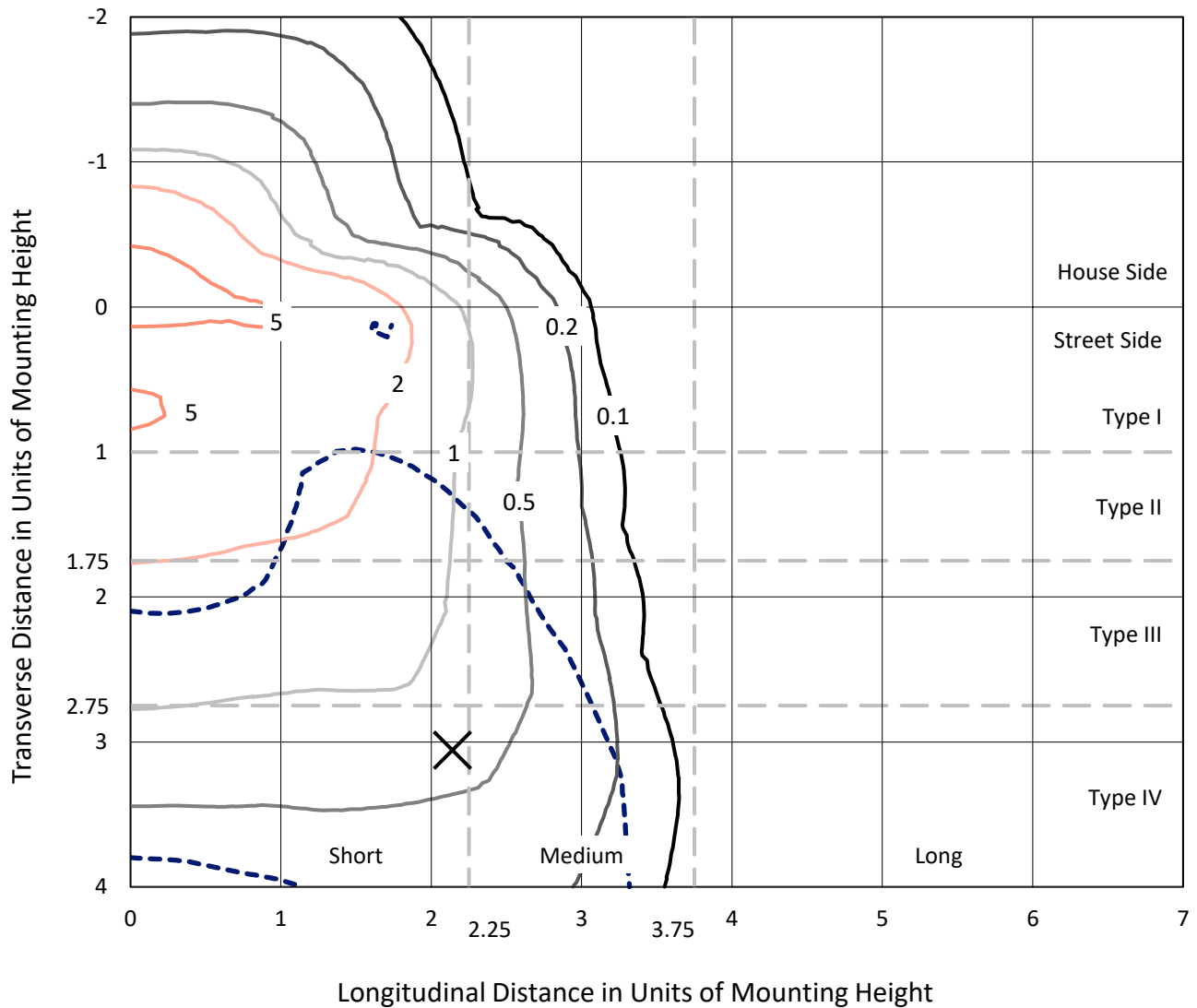
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

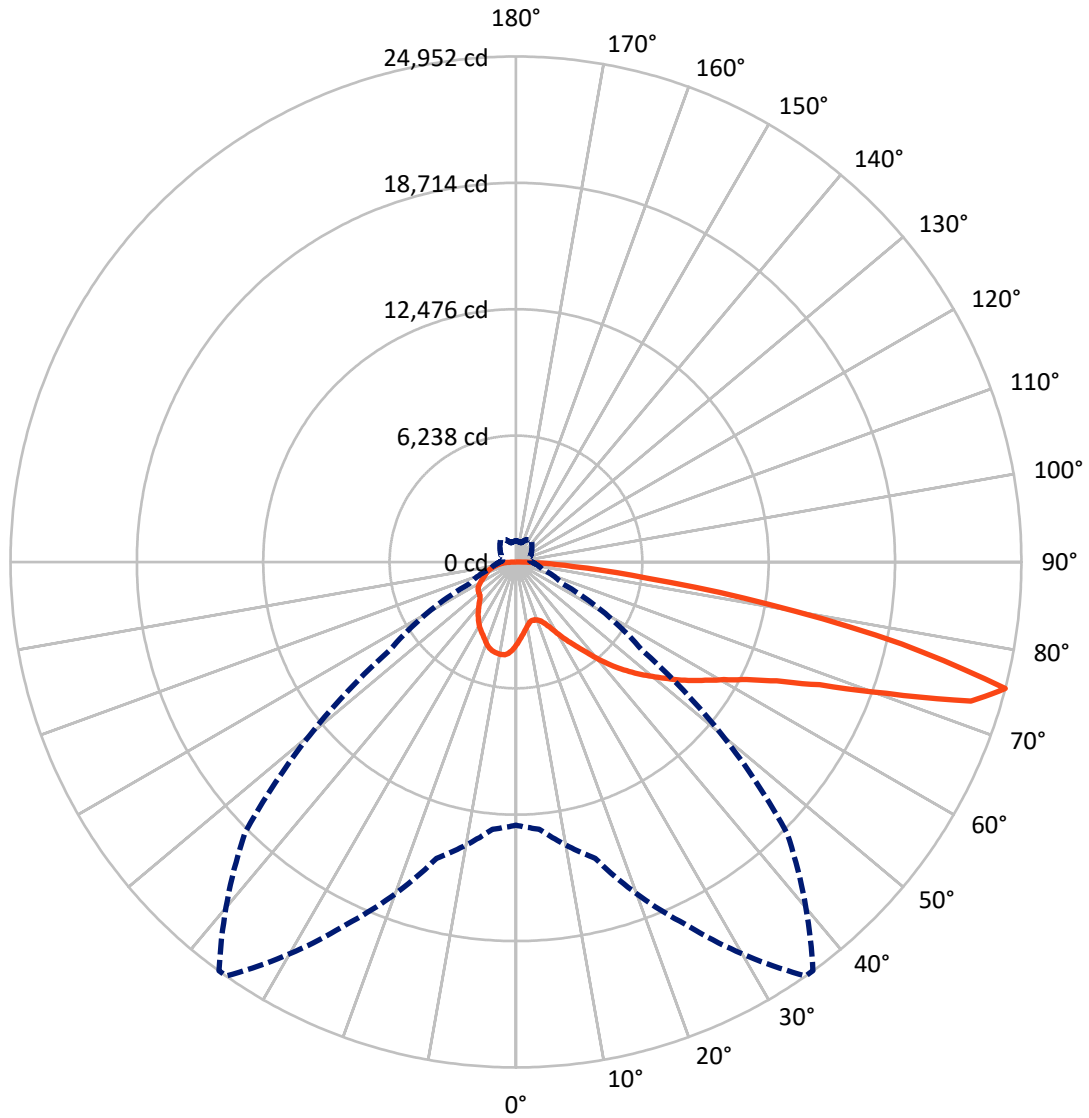
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7285.4	0.0	7285.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23328.6	0.0	23328.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	30614.0	0.0	30614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	1.3
10°-20°	1114.1	3.6
20°-30°	1870.9	6.1
30°-40°	2907.6	9.5
40°-50°	4315.7	14.1
50°-60°	5958.0	19.5
60°-70°	7228.5	23.6
70°-80°	5973.8	19.5
80°-90°	859.2	2.8
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°	30614.0	100.0
0°-180°	30614.0	100.0

Coefficient of Utilization



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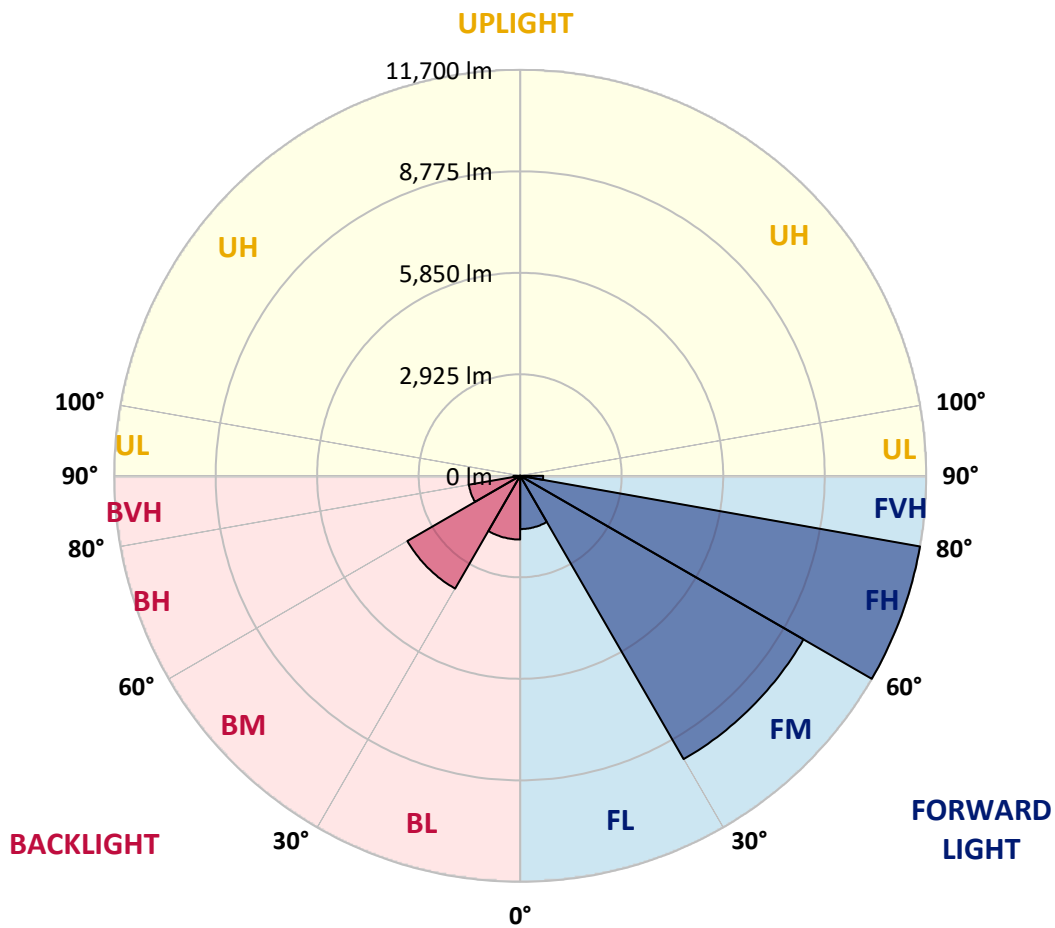
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.2	5.0			
FM (30°-60°)	9427.5	30.8			
FH (60°-80°)	11700.2	38.2			G4/12000
FVH (80°-90°)	665.7	2.2			G4/750
BL (0°-30°)	1836.0	6.0	B3/2500		
BM (30°-60°)	3753.9	12.3	B3/5000		
BH (60°-80°)	1502.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	193.5	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5
2.5°	3761.8	3784.9	3794.9	3789.9	3814.7	3811.4	3846.2	3889.2	3948.8	4006.7	4091.1
5°	3472.1	3497.0	3518.5	3538.3	3586.3	3601.2	3655.8	3738.6	3847.8	3958.7	4097.7
7.5°	3202.4	3223.9	3257.0	3293.4	3374.5	3389.4	3480.4	3609.5	3761.8	3924.0	4115.9
10°	2982.3	3003.8	3038.5	3079.9	3180.9	3199.1	3314.9	3487.0	3685.6	3890.9	4135.8
12.5°	2887.9	2894.6	2914.4	2955.8	3043.5	3055.1	3182.5	3379.5	3611.2	3866.0	4165.6
15°	2883.0	2896.2	2897.9	2919.4	2992.2	2997.2	3114.7	3310.0	3564.8	3861.1	4210.3
17.5°	2932.6	2942.6	2927.7	2940.9	3002.1	3010.4	3103.1	3276.9	3549.9	3882.6	4286.4
20°	3065.0	3073.3	3028.6	3010.4	3055.1	3061.7	3152.7	3298.4	3564.8	3927.3	4390.7
22.5°	3346.4	3351.3	3242.1	3167.6	3170.9	3174.2	3253.7	3386.1	3622.7	4008.4	4523.1
25°	3784.9	3781.6	3607.9	3463.9	3381.1	3362.9	3415.9	3528.4	3720.4	4115.9	4693.5
27.5°	4298.0	4273.2	4099.4	3884.2	3703.8	3677.4	3665.8	3713.8	3859.4	4258.3	4902.0
30°	4877.2	4854.1	4667.0	4385.7	4135.8	4092.8	3983.5	3958.7	4066.3	4451.9	5191.7
32.5°	5512.7	5497.8	5274.4	4933.5	4599.2	4549.5	4365.8	4299.6	4384.0	4744.8	5595.5
35°	6045.6	6032.4	5847.0	5496.2	5087.4	5026.2	4839.2	4764.7	4807.7	5120.5	6123.4
37.5°	6527.2	6520.6	6361.7	6085.4	5663.3	5588.9	5378.7	5353.9	5345.6	5615.3	6763.9
40°	6974.1	6957.5	6792.0	6646.4	6333.6	6265.7	6080.4	6058.9	5996.0	6224.4	7488.8
42.5°	7468.9	7425.9	7185.9	7118.1	7033.7	6977.4	6866.5	6869.8	6730.8	6911.2	8256.7
45°	7872.7	7847.9	7601.3	7561.6	7652.6	7629.5	7725.4	7750.3	7480.5	7631.1	9054.4
47.5°	8306.3	8283.2	8074.6	8046.5	8293.1	8299.7	8639.0	8647.3	8212.0	8379.2	9853.7
50°	8840.9	8807.8	8600.9	8635.7	8912.1	8936.9	9557.5	9501.2	8885.6	9138.8	10646.5
52.5°	9193.4	9213.3	9168.6	9224.9	9602.2	9625.4	10461.1	10317.1	9552.5	9888.5	11424.3
55°	9453.2	9493.0	9632.0	9761.1	10330.4	10353.5	11313.4	11093.3	10105.3	10583.6	12155.8
57.5°	9787.5	9731.3	9991.1	10242.7	11022.2	11083.4	12142.6	11841.4	10595.2	11182.7	12657.3
60°	10267.5	10227.8	10429.7	10802.0	11796.7	11894.3	13019.7	12514.9	10954.3	11657.7	12754.9
62.5°	11240.6	11141.3	11172.8	11502.1	12773.1	12902.2	14009.4	13102.5	11133.0	11843.0	12231.9
65°	12695.3	12524.9	12366.0	12594.4	14148.4	14275.8	15126.5	13564.2	11066.8	11483.9	10843.4
67.5°	14527.4	14358.6	14163.3	14378.5	16174.1	16275.1	16505.1	13824.0	10545.5	10100.3	8389.1
70°	16038.4	15975.5	16208.9	17094.3	19409.6	19412.9	18272.6	13608.9	9117.3	7161.1	4854.1
72.5°	15838.1	15800.1	17029.7	19767.1	23487.5	23399.7	19945.8	11980.4	6141.6	3230.5	1818.8
75°	12993.2	13239.8	15144.7	19719.1	24952.1	24940.5	18921.4	7616.2	2540.4	1338.9	940.0
77.5°	6967.5	7358.0	9832.2	14558.8	19479.1	19772.0	13302.7	2664.5	1090.6	857.3	650.4
80°	2272.3	2613.2	3919.0	7412.6	12657.3	12602.7	5701.4	1045.9	746.4	607.4	450.2
82.5°	964.9	1004.6	1751.0	3500.3	6495.8	6394.8	1815.5	600.8	524.6	415.4	278.0
85°	377.3	422.0	772.9	1618.6	2813.5	2752.2	655.4	297.9	336.0	271.4	165.5
87.5°	124.1	150.6	276.4	554.4	875.5	844.0	160.5	102.6	145.6	124.1	59.6
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°	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5	4079.5
2.5°	4114.3	4140.8	4172.2	4218.5	4258.3	4291.4	4326.1	4347.6	4355.9	4380.7	4379.1
5°	4144.1	4202.0	4279.8	4355.9	4430.4	4475.1	4514.8	4534.6	4552.8	4566.1	4569.4
7.5°	4193.7	4268.2	4390.7	4490.0	4552.8	4589.3	4615.7	4609.1	4615.7	4619.0	4624.0
10°	4236.7	4341.0	4486.6	4581.0	4629.0	4630.6	4624.0	4600.8	4589.3	4590.9	4594.2
12.5°	4288.0	4403.9	4561.1	4640.6	4653.8	4617.4	4589.3	4549.5	4534.6	4528.0	4524.7
15°	4357.6	4490.0	4642.2	4672.0	4638.9	4592.6	4544.6	4480.0	4446.9	4420.4	4428.7
17.5°	4442.0	4587.6	4705.1	4683.6	4612.4	4536.3	4458.5	4360.9	4293.0	4264.9	4266.5
20°	4559.5	4690.2	4753.1	4658.8	4551.2	4435.3	4302.9	4183.8	4120.9	4092.8	4089.5
22.5°	4701.8	4827.6	4799.4	4615.7	4463.5	4278.1	4112.6	4024.9	3993.5	3973.6	3976.9
25°	4872.3	4979.8	4832.5	4552.8	4319.5	4069.6	3942.2	3914.0	3899.1	3884.2	3884.2
27.5°	5094.0	5151.9	4857.4	4460.2	4094.4	3847.8	3801.5	3806.5	3801.5	3776.7	3781.6
30°	5387.0	5375.4	4880.5	4309.6	3836.2	3647.6	3650.9	3672.4	3675.7	3659.2	3667.4
32.5°	5772.6	5655.1	4892.1	4114.3	3589.6	3472.1	3475.5	3498.6	3515.2	3487.0	3500.3
35°	6239.3	5981.1	4873.9	3869.3	3399.3	3305.0	3280.2	3286.8	3291.8	3265.3	3283.5
37.5°	6783.8	6346.8	4792.8	3597.9	3242.1	3141.1	3088.2	3043.5	3017.0	2992.2	3008.8
40°	7381.2	6745.7	4643.9	3333.1	3066.7	2967.4	2887.9	2803.5	2714.2	2681.1	2696.0
42.5°	8006.8	7156.1	4463.5	3079.9	2864.8	2783.7	2699.3	2576.8	2442.7	2374.9	2383.2
45°	8655.5	7576.5	4286.4	2830.0	2657.9	2623.1	2525.5	2378.2	2232.6	2146.5	2139.9
47.5°	9291.1	7973.7	4026.6	2578.5	2464.3	2502.3	2426.2	2290.5	2128.3	1992.6	1977.7
50°	9898.4	8346.1	3601.2	2323.6	2307.0	2465.9	2393.1	2197.8	2012.5	1838.7	1823.8
52.5°	10500.8	8647.3	3056.7	2091.9	2222.6	2456.0	2350.1	2134.9	1908.2	1726.1	1706.3
55°	11012.2	8802.8	2532.1	1893.3	2100.2	2371.6	2298.8	2060.4	1760.9	1567.3	1550.7
57.5°	11303.5	8677.1	2095.2	1698.0	1931.4	2232.6	2211.1	1901.6	1585.5	1436.5	1416.7
60°	11177.7	8167.3	1737.7	1527.5	1770.8	2082.0	2058.8	1744.3	1451.4	1310.7	1290.9
62.5°	10484.3	7195.8	1454.7	1378.6	1625.2	1928.1	1906.5	1623.5	1348.8	1213.1	1191.6
65°	9087.5	5853.7	1234.6	1254.5	1477.9	1742.7	1774.1	1522.6	1267.7	1135.3	1113.8
67.5°	6931.1	4240.1	1062.5	1146.9	1333.9	1560.6	1651.7	1449.8	1199.9	1074.1	1054.2
70°	3950.4	2408.0	916.9	1042.6	1206.5	1391.8	1557.3	1391.8	1127.0	1022.8	1009.5
72.5°	1497.8	1105.5	792.7	938.4	1084.0	1249.5	1453.1	1300.8	1042.6	964.9	951.6
75°	799.4	673.6	667.0	815.9	943.3	1110.5	1322.3	1211.4	979.7	1019.5	1052.6
77.5°	544.5	476.6	557.7	698.4	789.4	956.6	1183.3	1075.7	849.0	845.7	779.5
80°	377.3	337.6	453.5	562.7	610.7	804.3	1032.7	923.5	691.8	645.4	617.3
82.5°	226.7	220.1	339.3	420.4	431.9	620.6	855.6	774.5	566.0	493.2	496.5
85°	124.1	130.7	216.8	246.6	251.6	433.6	670.3	599.1	435.3	365.8	369.1
87.5°	34.8	44.7	79.4	97.6	120.8	225.1	398.8	355.8	218.5	152.3	152.3
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)