

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: P885104

Luminaire Tested: **NAV-SB6B-727-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30704 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

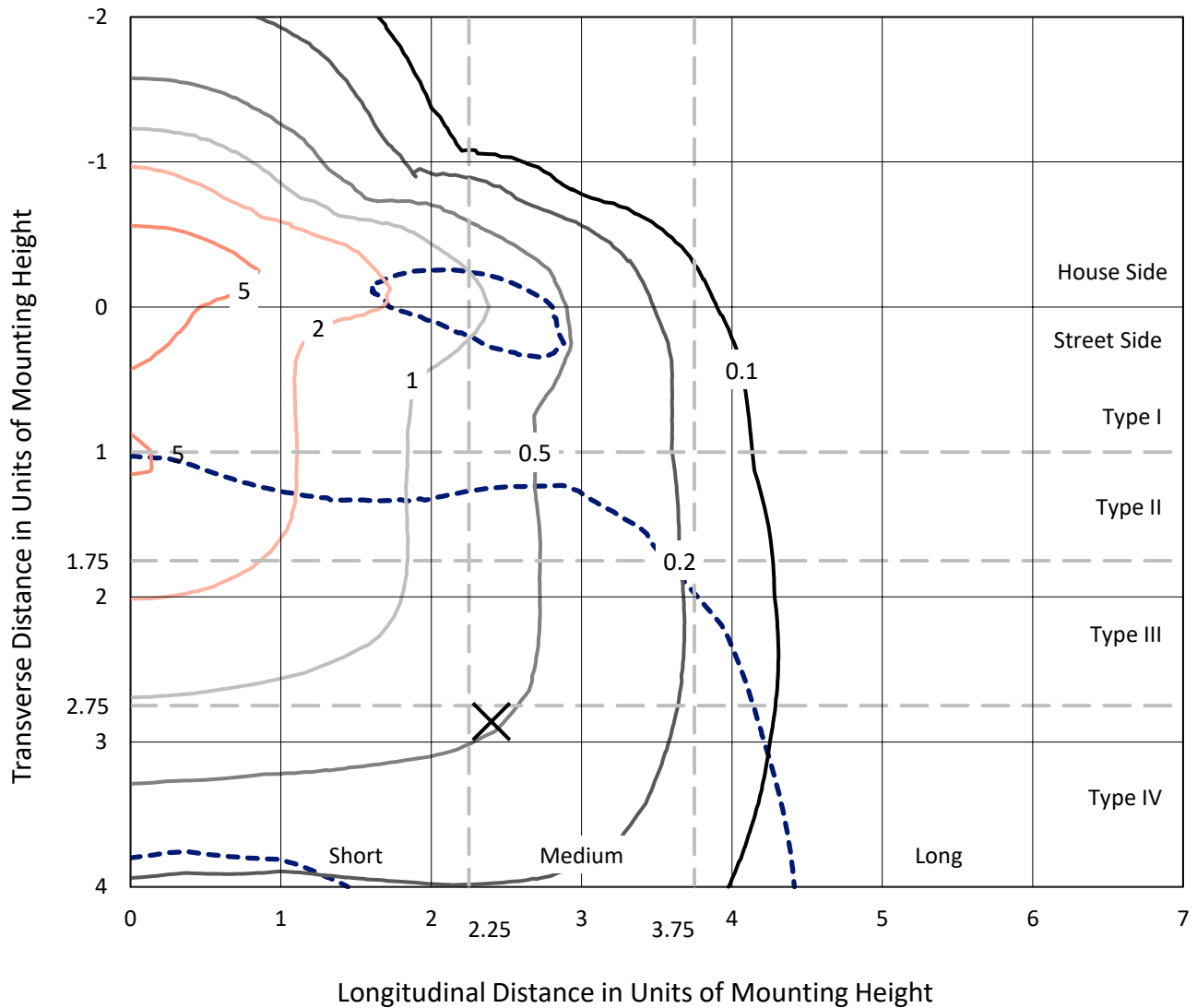
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

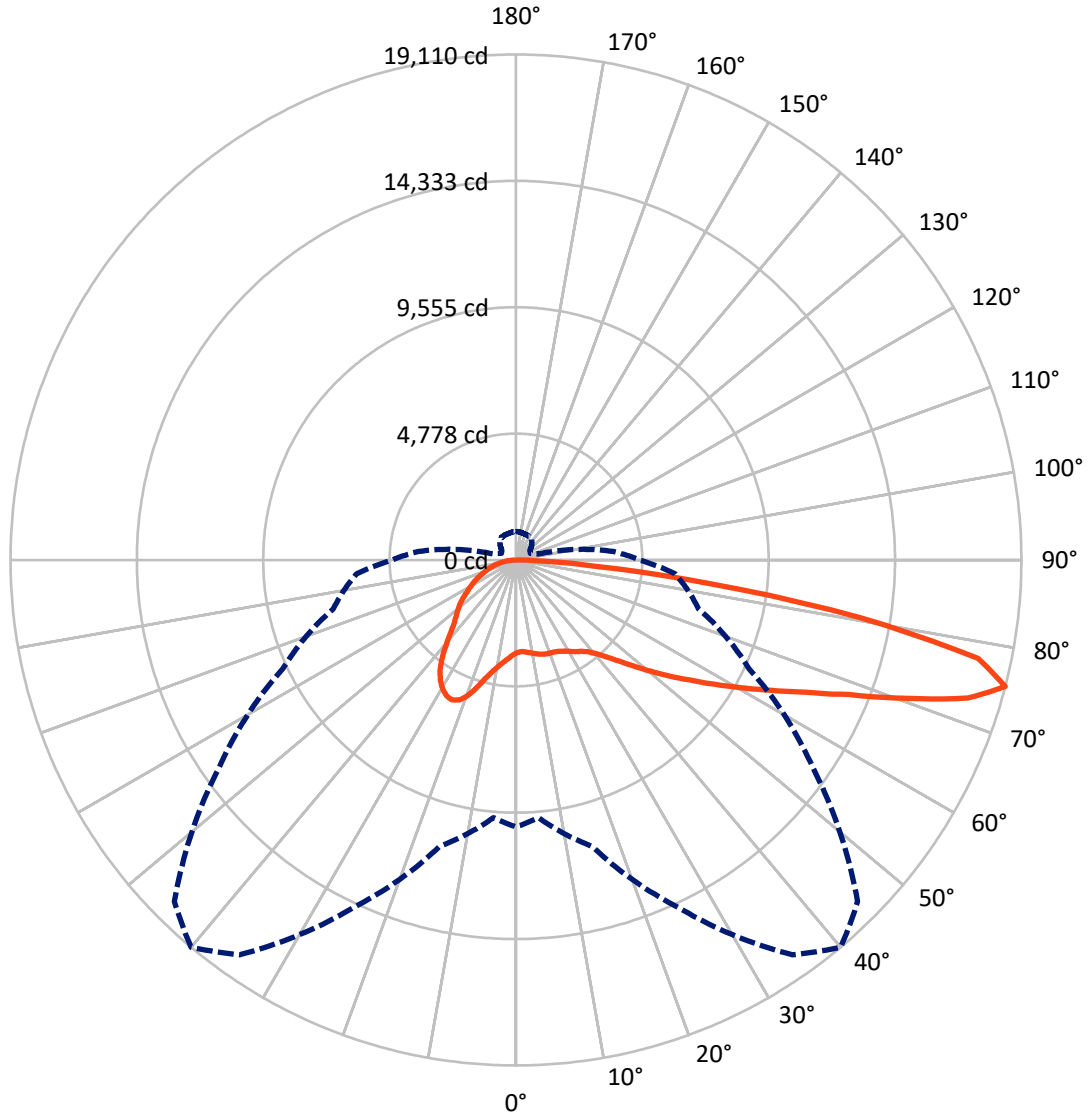
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P885104
CATALOG NUMBER: NAV-SB6B-727-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9513.1	0.0	9513.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	21190.9	0.0	21190.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	30704.0	0.0	30704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	1.1
10°-20°	1176.7	3.8
20°-30°	2148.5	7.0
30°-40°	3047.2	9.9
40°-50°	4114.7	13.4
50°-60°	5535.3	18.0
60°-70°	7025.6	22.9
70°-80°	6376.1	20.8
80°-90°	929.4	3.0
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°	30704.0	100.0
0°-180°	30704.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885104

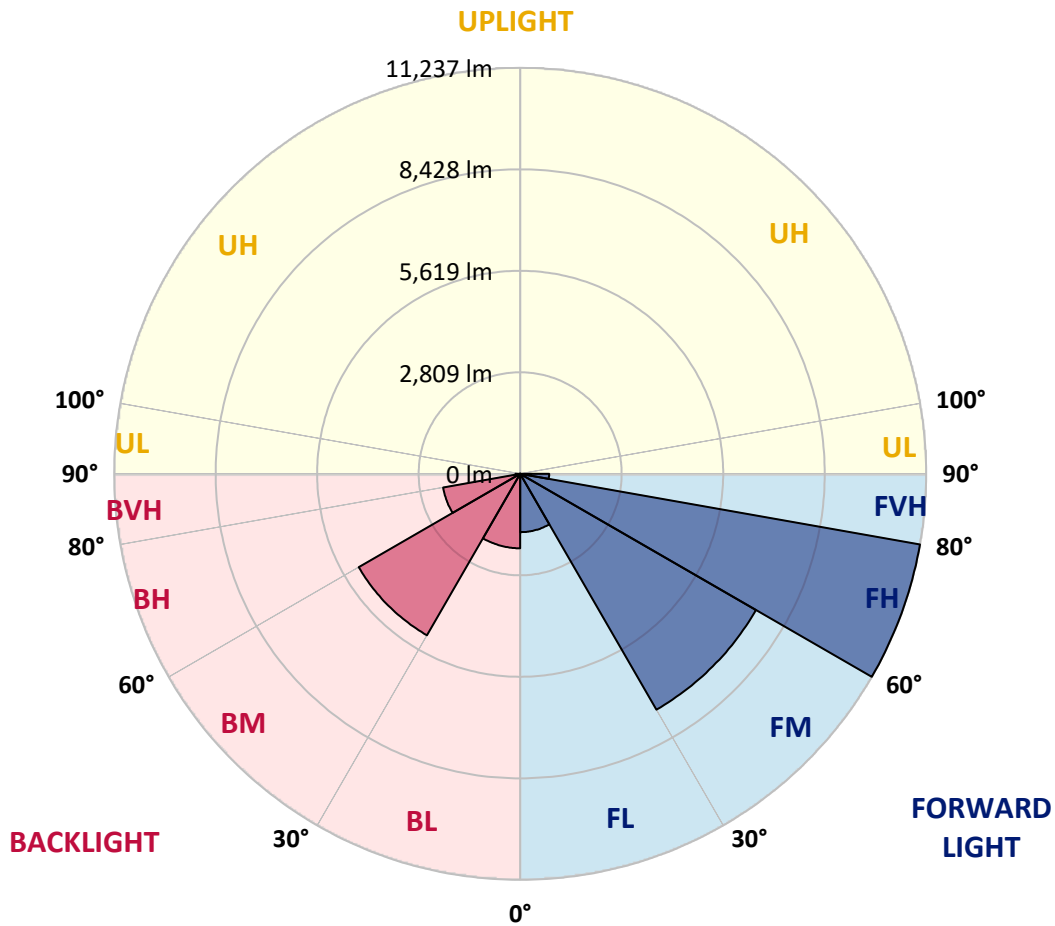
CATALOG NUMBER: NAV-SB6B-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.1	5.3			
FM (30°-60°)	7537.1	24.5			
FH (60°-80°)	11237.2	36.6			G4/12000
FVH (80°-90°)	801.5	2.6			G5
BL (0°-30°)	2060.6	6.7	B3/2500		
BM (30°-60°)	5160.0	16.8	B4/8500		
BH (60°-80°)	2164.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	128.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P885104

CATALOG NUMBER: NAV-SB6B-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0
2.5°	3457.3	3476.8	3472.0	3465.4	3465.4	3467.1	3465.4	3476.8	3488.2	3499.6	3517.6
5°	3493.1	3512.7	3502.9	3494.8	3488.2	3486.6	3481.7	3480.1	3486.6	3501.3	3525.7
7.5°	3563.2	3582.7	3568.0	3553.4	3540.4	3533.8	3527.3	3517.6	3512.7	3520.8	3555.0
10°	3641.3	3660.9	3643.0	3616.9	3595.7	3587.6	3581.1	3571.3	3564.8	3569.7	3607.1
12.5°	3719.5	3739.0	3714.6	3678.8	3651.1	3646.2	3638.1	3634.8	3633.2	3631.6	3669.0
15°	3792.8	3809.1	3778.1	3735.8	3706.5	3698.3	3690.2	3695.1	3703.2	3713.0	3755.3
17.5°	3849.8	3866.1	3820.5	3765.1	3737.4	3734.1	3729.3	3745.5	3768.3	3792.8	3844.9
20°	3901.9	3918.2	3859.5	3784.6	3752.1	3752.1	3753.7	3787.9	3820.5	3856.3	3927.9
22.5°	3975.2	3988.2	3916.5	3813.9	3766.7	3770.0	3783.0	3817.2	3857.9	3906.8	4006.1
25°	4084.3	4094.0	4006.1	3869.3	3815.6	3825.3	3836.7	3853.0	3892.1	3949.1	4082.6
27.5°	4260.2	4268.3	4152.7	3967.0	3885.6	3901.9	3918.2	3906.8	3924.7	3973.5	4144.5
30°	4507.7	4512.6	4366.0	4120.1	4004.5	4012.6	4015.9	3968.7	3934.5	3973.5	4188.5
32.5°	4800.8	4799.2	4624.9	4305.8	4139.6	4131.5	4103.8	4011.0	3931.2	3965.4	4227.6
35°	5255.2	5237.3	5012.5	4566.3	4292.7	4242.2	4177.1	4058.2	3947.5	3957.3	4261.8
37.5°	6007.5	5952.2	5641.1	4993.0	4520.7	4392.1	4296.0	4134.8	3983.3	3954.0	4302.5
40°	6856.0	6786.0	6444.0	5577.6	4862.7	4655.9	4501.2	4243.9	4041.9	3968.7	4362.7
42.5°	7862.4	7763.1	7395.0	6266.5	5295.9	4996.2	4763.4	4382.3	4128.2	4015.9	4444.2
45°	9098.4	8966.5	8445.4	7043.3	5841.4	5442.4	5131.4	4592.4	4260.2	4107.1	4566.3
47.5°	10347.5	10380.1	9639.1	7932.4	6496.1	5992.9	5592.3	4908.3	4452.3	4253.6	4763.4
50°	11674.7	11697.5	10826.3	8917.7	7238.7	6615.0	6110.1	5261.7	4719.4	4462.1	5058.1
52.5°	12710.4	12713.7	11904.3	9948.5	8012.2	7298.9	6668.7	5665.5	5028.8	4738.9	5450.6
55°	13358.6	13350.4	12659.9	10924.0	8901.4	8017.1	7287.5	6124.8	5406.6	5064.6	5944.0
57.5°	13829.2	13804.8	13181.1	11762.6	9849.2	8865.5	7987.8	6645.9	5852.8	5452.2	6593.8
60°	14008.3	13993.7	13534.5	12487.3	10845.8	9803.6	8795.5	7228.9	6359.3	5909.8	7429.2
62.5°	14076.7	14104.4	13881.3	13189.2	11912.5	10842.5	9683.1	7925.9	6929.3	6427.7	8310.2
65°	14317.8	14368.2	14322.6	14107.7	13117.6	12059.0	10860.5	8754.8	7551.3	6983.0	9230.3
67.5°	14794.9	14845.4	14864.9	15206.9	14589.7	13575.2	12329.4	9787.3	8279.3	7559.5	9922.4
70°	14783.5	14768.9	15114.1	16081.4	16433.2	15674.3	14309.6	11057.5	9147.3	8038.3	10010.4
72.5°	13456.3	13339.0	14154.9	16071.7	17967.2	17866.3	16727.9	12695.8	9896.4	8096.9	8686.4
75°	10095.1	9782.4	11223.6	14483.9	18222.9	19110.4	18265.2	13712.0	9718.9	7154.0	6045.0
77.5°	4317.2	4002.8	5701.4	10722.0	16309.4	17864.6	16855.0	11963.0	7758.2	4730.8	2968.8
80°	1130.2	1128.5	1723.0	4861.1	11091.7	13192.5	11573.7	7725.6	4432.8	1690.4	819.1
82.5°	467.4	456.0	633.5	1890.7	5419.6	7403.2	6041.7	3445.9	1600.8	457.6	272.0
85°	174.2	172.6	307.8	653.0	1911.9	3053.4	2209.9	881.0	399.0	223.1	122.1
87.5°	48.9	47.2	66.8	226.4	465.8	706.8	377.8	144.9	112.4	87.9	35.8
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: P885104

CATALOG NUMBER: NAV-SB6B-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0	3511.0
2.5°	3522.4	3530.6	3545.2	3556.6	3571.3	3587.6	3610.4	3625.0	3639.7	3649.5	3643.0
5°	3537.1	3555.0	3592.5	3629.9	3673.9	3714.6	3761.8	3796.0	3823.7	3831.9	3835.1
7.5°	3569.7	3599.0	3662.5	3726.0	3796.0	3862.8	3931.2	3989.8	4037.0	4055.0	4056.6
10°	3626.7	3665.8	3755.3	3844.9	3937.7	4040.3	4128.2	4212.9	4279.7	4307.4	4309.0
12.5°	3698.3	3747.2	3864.4	3988.2	4116.8	4258.5	4372.5	4476.7	4559.8	4597.3	4597.3
15°	3791.1	3854.7	4004.5	4170.6	4359.5	4556.5	4701.5	4817.1	4909.9	4955.5	4952.3
17.5°	3892.1	3976.8	4165.7	4416.5	4686.8	4945.8	5115.1	5199.8	5295.9	5339.8	5338.2
20°	3989.8	4094.0	4364.4	4729.2	5089.1	5364.3	5501.1	5523.9	5530.4	5535.3	5548.3
22.5°	4090.8	4230.8	4613.5	5123.3	5509.2	5699.7	5719.3	5621.6	5484.8	5421.3	5439.2
25°	4201.5	4387.2	4939.2	5558.1	5870.7	5893.5	5743.7	5506.0	5247.0	5128.1	5146.1
27.5°	4309.0	4567.9	5330.1	5973.3	6131.3	5931.0	5608.5	5271.5	4958.8	4833.4	4848.0
30°	4416.5	4774.8	5761.6	6336.5	6250.2	5838.2	5395.2	5019.0	4704.7	4572.8	4587.5
32.5°	4525.6	5015.8	6258.3	6598.7	6229.0	5641.1	5129.8	4735.7	4458.8	4320.4	4338.3
35°	4649.4	5312.2	6729.0	6742.0	6087.3	5351.2	4779.6	4396.9	4155.9	4045.2	4069.6
37.5°	4810.6	5688.3	7144.2	6777.8	5839.8	4926.2	4344.8	3996.3	3797.7	3747.2	3783.0
40°	5010.9	6141.1	7461.8	6720.8	5473.4	4410.0	3869.3	3590.8	3478.5	3489.9	3529.0
42.5°	5271.5	6647.5	7684.9	6574.2	4963.7	3877.5	3452.4	3328.7	3382.4	3428.0	3470.3
45°	5610.2	7173.5	7823.3	6325.1	4387.2	3426.4	3206.5	3235.8	3276.5	3281.4	3314.0
47.5°	6043.4	7706.1	7914.5	5948.9	3799.3	3108.8	3050.2	3056.7	3048.5	3014.4	3040.4
50°	6584.0	8223.9	7995.9	5450.6	3299.3	2910.1	2832.0	2809.2	2696.8	2586.1	2600.7
52.5°	7199.6	8699.4	8030.1	4831.8	2910.1	2744.0	2617.0	2473.7	2263.6	2229.4	2240.8
55°	7883.6	9139.1	7942.2	4071.2	2582.8	2530.7	2338.5	2165.9	2143.1	2113.8	2118.7
57.5°	8701.1	9613.0	7763.1	3222.8	2247.3	2281.5	2094.2	2113.8	2073.1	2027.5	2019.3
60°	9595.1	10103.2	7448.8	2449.3	1900.5	1970.5	2030.7	2029.1	2017.7	1980.3	1967.2
62.5°	10399.6	10425.6	6829.9	1876.0	1595.9	1729.5	1893.9	1892.3	1882.5	1861.4	1853.2
65°	10878.4	10376.8	5797.5	1477.0	1345.1	1530.8	1708.3	1721.3	1723.0	1721.3	1721.3
67.5°	10793.7	9805.2	4380.7	1175.8	1138.3	1328.9	1524.3	1542.2	1555.2	1558.5	1561.7
70°	9836.1	8549.6	2856.4	938.0	954.3	1151.3	1350.0	1367.9	1379.3	1392.4	1398.9
72.5°	7667.0	6286.0	1635.0	758.9	793.1	998.3	1177.4	1198.6	1205.1	1229.5	1239.3
75°	4672.2	3696.7	882.6	597.7	651.4	853.3	1006.4	1030.8	1042.2	1071.6	1074.8
77.5°	2221.3	1600.8	503.2	465.8	524.4	697.0	850.1	877.8	846.8	863.1	850.1
80°	750.7	594.4	317.6	355.0	400.6	543.9	680.7	708.4	643.3	640.0	633.5
82.5°	262.2	241.0	201.9	236.1	258.9	389.2	514.6	550.4	478.8	477.2	454.4
85°	102.6	97.7	112.4	128.7	154.7	239.4	338.7	356.6	294.8	237.8	234.5
87.5°	21.2	22.8	27.7	29.3	47.2	83.1	122.1	149.8	118.9	101.0	92.8
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)