

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: McGRAW-EDISON

Report Number: P300692

Luminaire Tested: **GLNA-AF-07-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-RW-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27330.4 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

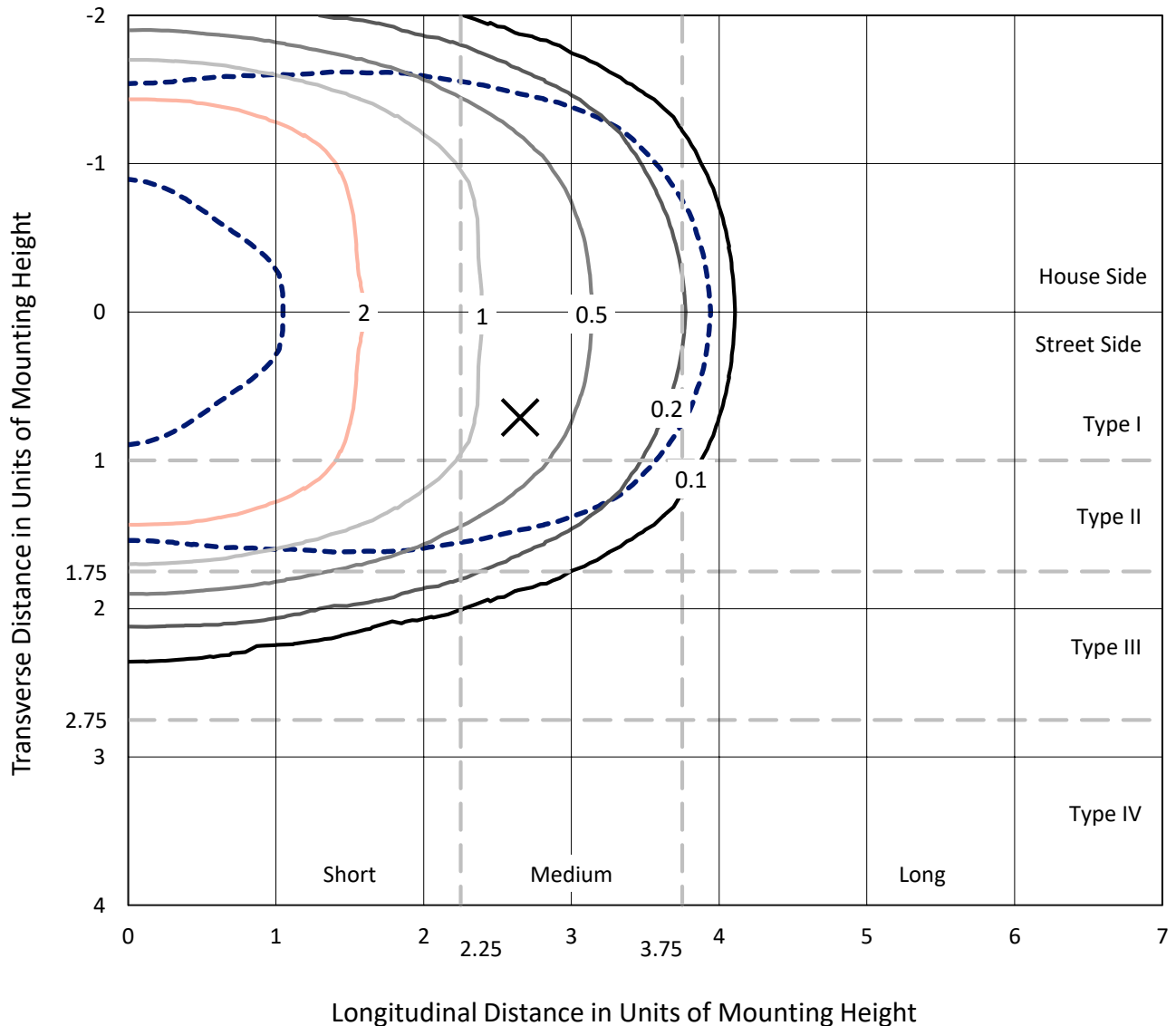
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300692
 CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

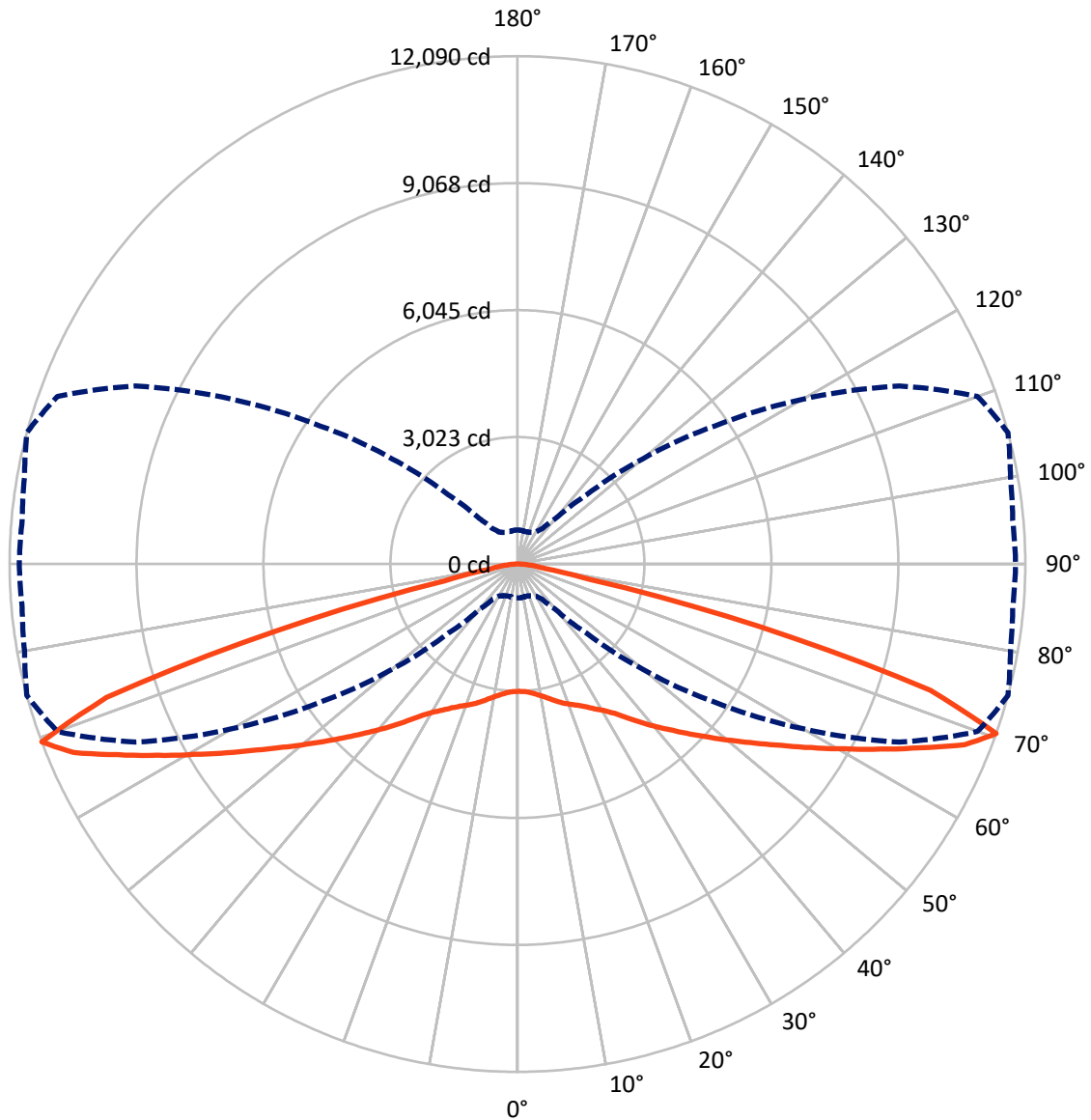


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300692

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P300692

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13665.2	0.0	13665.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13665.2	0.0	13665.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	27330.4	0.0	27330.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	1.1
10°-20°	903.4	3.3
20°-30°	1700.4	6.2
30°-40°	3011.0	11.0
40°-50°	5035.4	18.4
50°-60°	7016.8	25.7
60°-70°	6506.9	23.8
70°-80°	2593.2	9.5
80°-90°	272.6	1.0
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°	27330.4	100.0
0°-180°	27330.4	100.0



REPORT NUMBER: P300692

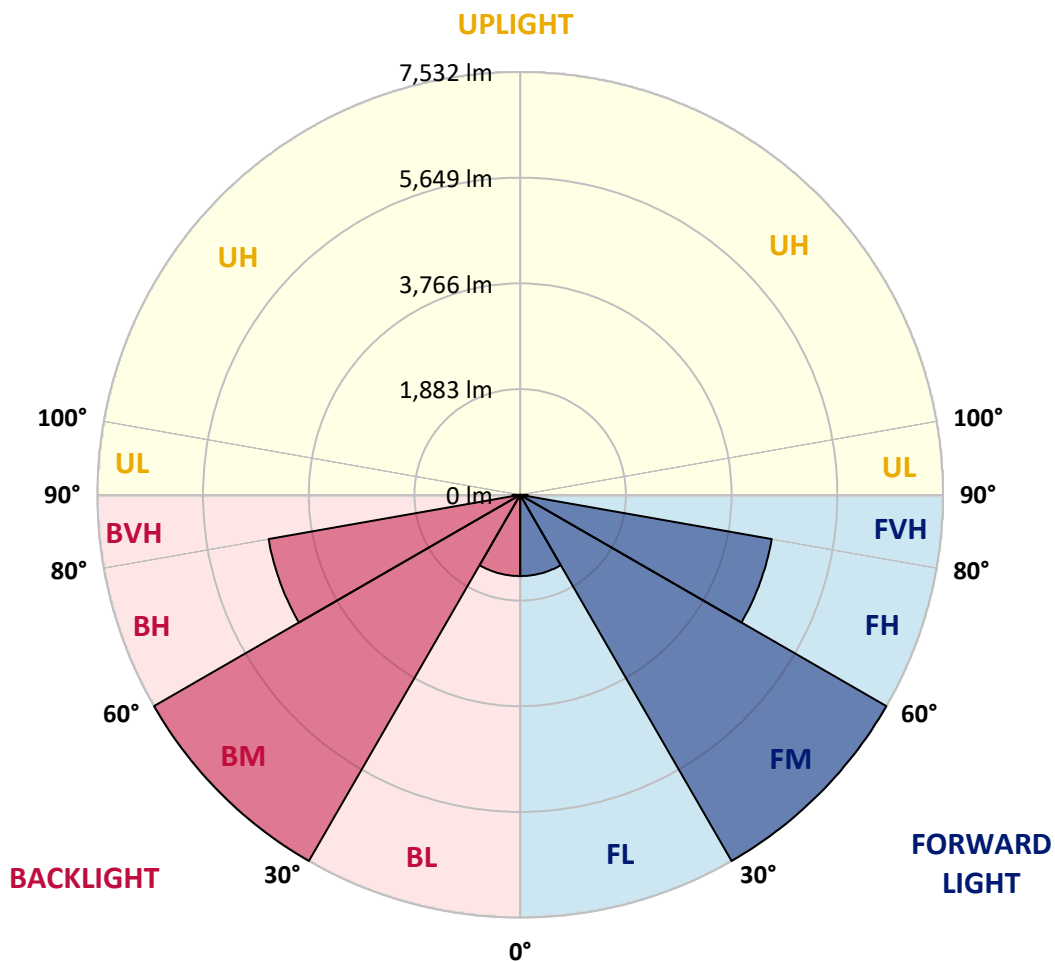
CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1447.3	5.3			
FM	(30°-60°)	7531.6	27.6			
FH	(60°-80°)	4550.1	16.6			G2/5000
FVH	(80°-90°)	136.3	0.5			G2/225
BL	(0°-30°)	1447.3	5.3	B3/2500		
BM	(30°-60°)	7531.6	27.6	B4/8500		
BH	(60°-80°)	4550.1	16.6	B4/5000		G4/5000
BVH	(80°-90°)	136.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





REPORT NUMBER: P300692

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6
2.5°	3026.4	3023.8	3026.4	3025.1	3027.7	3027.7	3030.3	3035.5	3035.5	3039.3	3038.0
5°	2996.7	2995.4	2999.3	3003.2	3007.0	3014.8	3022.5	3034.2	3043.2	3049.7	3056.1
7.5°	2938.6	2938.6	2943.7	2952.8	2961.8	2978.6	2996.7	3020.0	3043.2	3062.6	3079.4
10°	2890.8	2893.4	2899.8	2915.3	2930.8	2956.7	2981.2	3014.8	3047.1	3079.4	3105.2
12.5°	2862.4	2866.2	2877.9	2901.1	2927.0	2961.8	2999.3	3041.9	3078.1	3116.8	3142.7
15°	2871.4	2874.0	2890.8	2919.2	2952.8	2996.7	3047.1	3097.5	3140.1	3181.4	3216.3
17.5°	2921.8	2925.7	2945.0	2977.3	3012.2	3063.9	3118.1	3175.0	3227.9	3274.4	3317.0
20°	3012.2	3016.1	3040.6	3075.5	3116.8	3169.8	3224.0	3283.5	3342.9	3392.0	3439.8
22.5°	3140.1	3146.5	3169.8	3204.7	3251.2	3308.0	3372.6	3435.9	3492.7	3537.9	3580.5
25°	3308.0	3322.2	3344.2	3382.9	3432.0	3483.7	3553.4	3618.0	3672.3	3714.9	3745.9
27.5°	3545.7	3565.0	3581.8	3619.3	3667.1	3716.2	3785.9	3842.8	3894.4	3935.8	3959.0
30°	3860.8	3880.2	3897.0	3933.2	3977.1	4023.6	4089.5	4139.8	4172.1	4204.4	4203.1
32.5°	4243.2	4263.8	4270.3	4309.1	4354.3	4404.6	4464.1	4492.5	4518.3	4522.2	4498.9
35°	4670.7	4681.1	4706.9	4758.6	4810.2	4851.6	4908.4	4922.6	4922.6	4903.2	4851.6
37.5°	5139.6	5146.1	5182.2	5240.4	5293.3	5335.9	5374.7	5403.1	5388.9	5347.6	5261.0
40°	5653.7	5665.3	5717.0	5768.7	5828.1	5868.1	5909.4	5914.6	5900.4	5839.7	5722.2
42.5°	6144.5	6154.9	6206.5	6287.9	6365.4	6421.0	6459.7	6467.5	6422.2	6366.7	6220.7
45°	6566.9	6594.0	6661.2	6756.8	6869.2	6948.0	7000.9	7022.9	6982.8	6910.5	6741.3
47.5°	6901.5	6928.6	7024.2	7137.8	7277.3	7405.2	7493.1	7539.6	7529.2	7475.0	7290.3
50°	7146.9	7172.7	7276.0	7415.5	7578.3	7737.2	7887.0	7998.1	8036.8	8012.3	7843.1
52.5°	7175.3	7217.9	7339.3	7526.6	7738.5	7955.5	8168.6	8357.2	8485.1	8504.4	8379.1
55°	6778.8	6821.4	6989.3	7267.0	7582.2	7936.1	8277.1	8594.9	8846.7	8975.9	8910.0
57.5°	5843.6	5919.8	6096.7	6422.2	6886.0	7415.5	7959.3	8523.8	9036.6	9378.9	9444.8
60°	4478.3	4568.7	4746.9	5093.1	5609.8	6241.4	6967.3	7801.8	8707.2	9477.1	9936.9
62.5°	2872.7	2958.0	3145.2	3446.2	3867.3	4551.9	5330.8	6321.5	7538.3	8753.7	9849.1
65°	1476.4	1522.9	1621.1	1803.2	2131.3	2642.8	3341.6	4329.7	5720.9	7220.5	8804.1
67.5°	935.2	944.2	966.2	992.0	1076.0	1252.9	1578.4	2194.6	3339.0	4903.2	6756.8
70°	808.6	808.6	798.3	794.4	804.7	829.3	879.6	1023.0	1409.2	2327.6	3897.0
72.5°	740.1	732.4	714.3	700.1	697.5	697.5	707.8	729.8	791.8	948.1	1525.5
75°	682.0	660.0	635.5	618.7	612.3	605.8	604.5	608.4	621.3	645.8	728.5
77.5°	611.0	582.5	554.1	537.3	529.6	520.5	512.8	503.8	497.3	505.0	541.2
80°	525.7	493.4	471.5	461.1	453.4	440.5	423.7	408.2	394.0	391.4	413.3
82.5°	423.7	386.2	387.5	391.4	377.2	359.1	341.0	324.2	299.7	286.8	299.7
85°	342.3	322.9	313.9	338.4	317.8	290.6	262.2	232.5	193.8	162.8	177.0
87.5°	133.0	133.0	198.9	306.1	275.1	224.8	192.5	164.0	102.0	78.8	80.1
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: P300692

CATALOG NUMBER: GLNA-AF-07-LED-E1-RW-7030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6	3031.6
2.5°	3036.7	3039.3	3038.0	3036.7	3036.7	3035.5	3036.7	3036.7
5°	3060.0	3066.5	3066.5	3069.0	3069.0	3070.3	3071.6	3070.3
7.5°	3094.9	3106.5	3114.2	3123.3	3124.6	3125.9	3128.5	3125.9
10°	3129.7	3153.0	3169.8	3186.6	3194.3	3196.9	3199.5	3199.5
12.5°	3173.7	3206.0	3235.7	3265.4	3279.6	3287.3	3287.3	3292.5
15°	3246.0	3278.3	3313.2	3353.2	3377.7	3390.7	3394.5	3394.5
17.5°	3348.0	3376.5	3406.2	3444.9	3475.9	3492.7	3496.6	3495.3
20°	3466.9	3494.0	3510.8	3535.3	3562.5	3581.8	3587.0	3587.0
22.5°	3602.5	3618.0	3620.6	3628.3	3650.3	3676.1	3687.8	3690.3
25°	3752.3	3756.2	3745.9	3745.9	3760.1	3784.6	3796.3	3797.5
27.5°	3946.1	3926.7	3900.9	3891.8	3900.9	3929.3	3943.5	3948.7
30°	4187.6	4141.1	4081.7	4049.4	4044.3	4081.7	4107.6	4111.4
32.5°	4464.1	4396.9	4318.1	4252.2	4235.4	4258.7	4289.7	4288.4
35°	4792.1	4712.1	4616.5	4532.5	4493.8	4517.0	4560.9	4566.1
37.5°	5170.6	5066.0	4956.2	4850.3	4789.6	4796.0	4842.5	4858.0
40°	5593.0	5457.4	5319.1	5177.1	5090.5	5073.7	5130.6	5139.6
42.5°	6045.1	5870.7	5696.3	5520.7	5409.6	5383.7	5449.6	5445.7
45°	6526.9	6304.7	6100.6	5906.9	5775.1	5736.4	5790.6	5790.6
47.5°	7044.8	6771.0	6528.2	6308.6	6165.2	6109.7	6161.3	6165.2
50°	7593.8	7303.2	7017.7	6773.6	6601.8	6530.7	6597.9	6608.2
52.5°	8140.2	7857.3	7569.3	7290.3	7082.3	6995.8	7073.3	7106.8
55°	8694.3	8416.6	8141.5	7868.9	7622.2	7520.2	7602.8	7645.5
57.5°	9279.4	9022.4	8760.2	8485.1	8247.4	8088.5	8176.4	8233.2
60°	9965.3	9745.7	9473.2	9169.7	8929.4	8767.9	8818.3	8868.7
62.5°	10507.8	10593.1	10361.9	10010.5	9701.8	9495.2	9544.2	9597.2
65°	10245.6	11120.1	11325.5	10970.3	10542.7	10221.1	10200.4	10227.5
67.5°	8563.9	10262.4	11501.1	11839.6	11481.8	11034.8	10952.2	10992.2
70°	5728.6	7844.4	10029.9	11657.4	12090.1	11917.1	11835.7	11860.2
72.5°	2751.3	4568.7	6804.6	8968.2	10285.7	10890.2	11083.9	11178.2
75°	1006.2	1813.5	3279.6	4942.0	5966.3	6906.6	7520.2	7770.8
77.5°	607.1	732.4	1047.6	1577.1	1786.4	1999.5	1916.9	1958.2
80°	449.5	507.6	574.8	645.8	669.1	669.1	643.3	622.6
82.5°	315.2	352.6	384.9	423.7	434.0	414.6	341.0	271.3
85°	202.8	219.6	233.8	258.3	251.9	240.3	161.5	143.4
87.5°	93.0	105.9	111.1	122.7	117.5	112.4	80.1	67.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)