

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: P300565

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300565
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-06-LED-E1-RW-7027
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31510.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

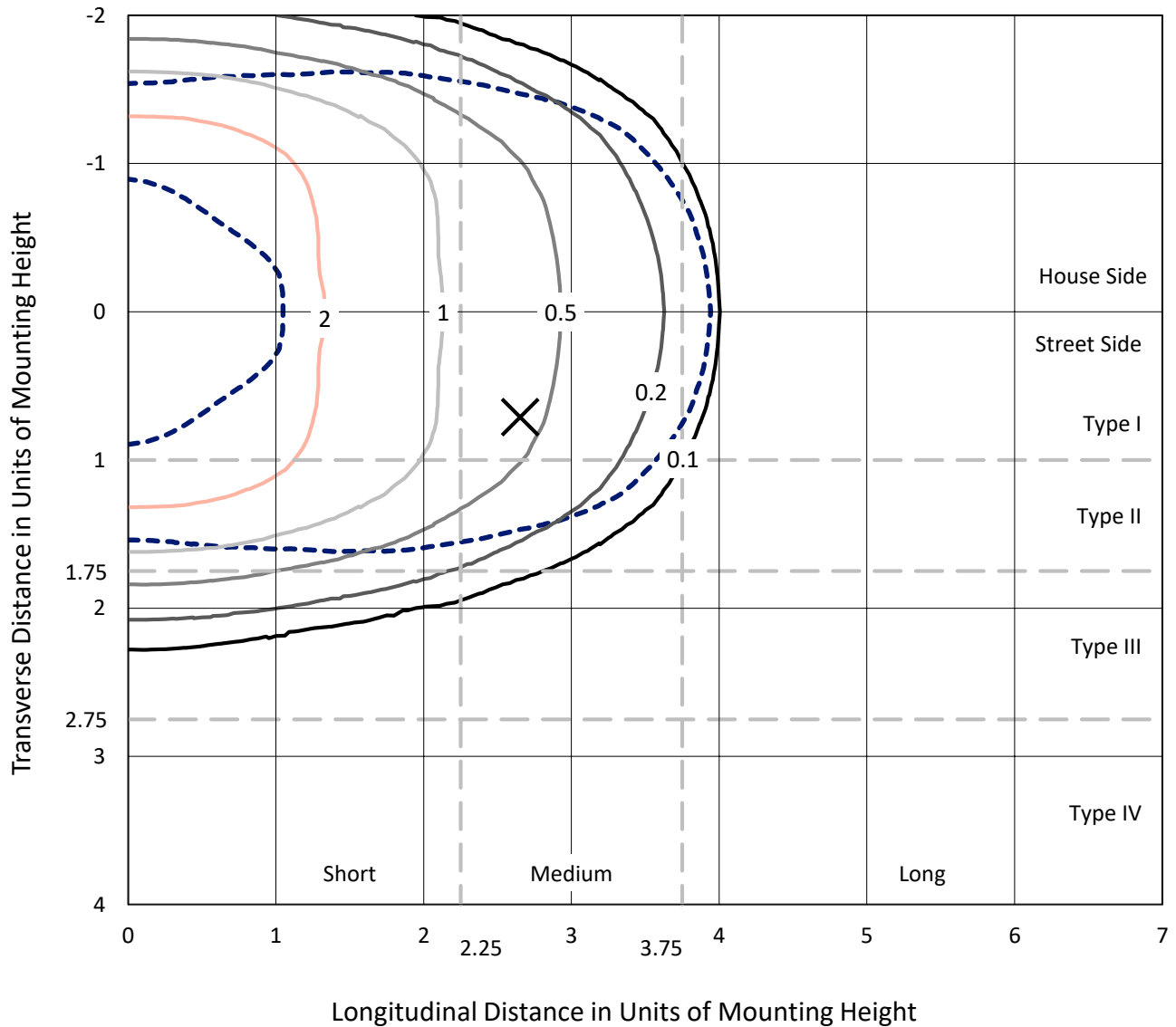
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300565
 CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027

Iso-Footcandle Lines of Horizontal Illumination

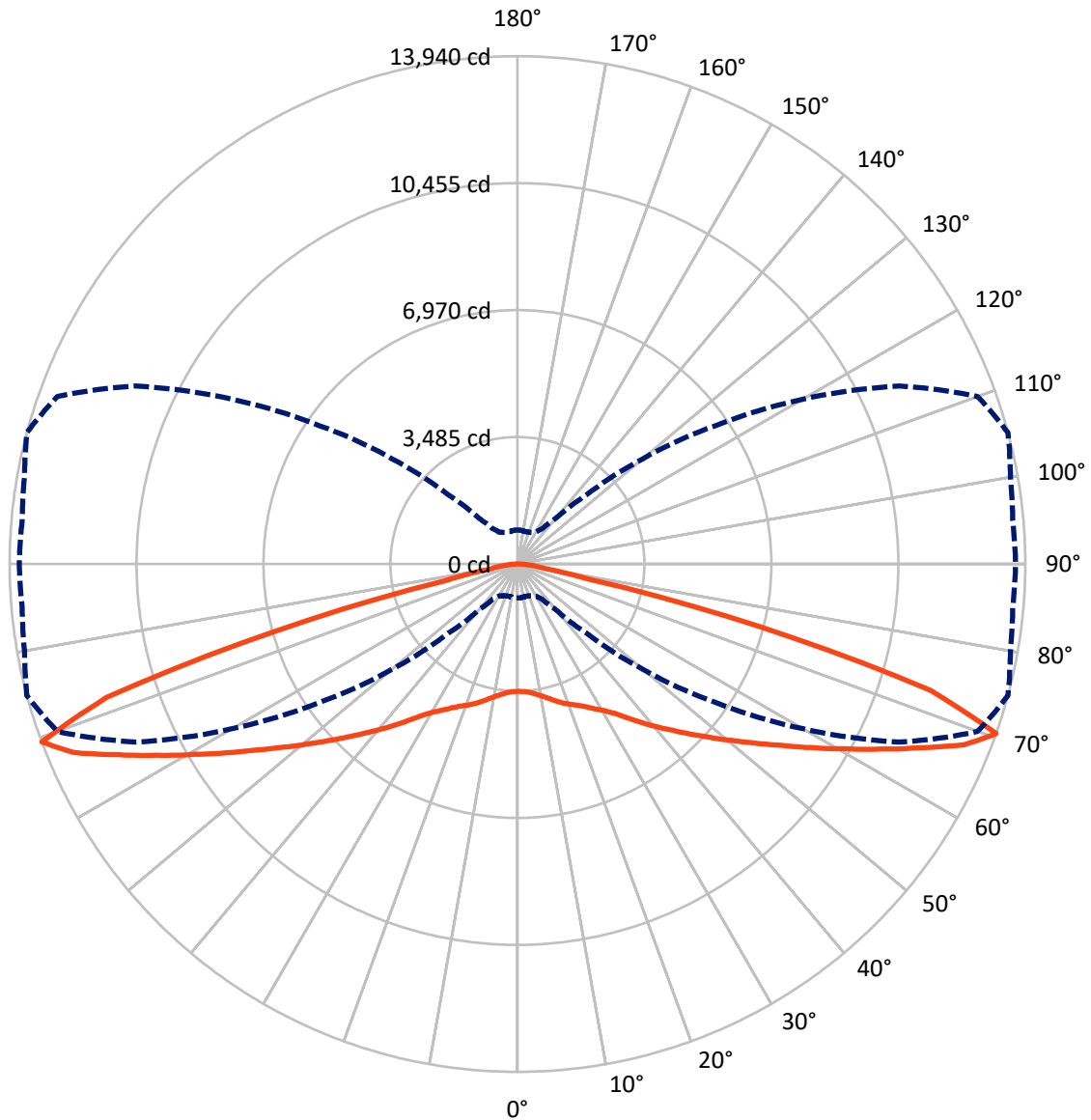
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300565
CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P300565

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15755.4	0.0	15755.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15755.4	0.0	15755.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31510.9	0.0	31510.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.2	1.1
10°-20°	1041.6	3.3
20°-30°	1960.4	6.2
30°-40°	3471.6	11.0
40°-50°	5805.6	18.4
50°-60°	8090.1	25.7
60°-70°	7502.2	23.8
70°-80°	2989.9	9.5
80°-90°	314.3	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°	31510.9	100.0
0°-180°	31510.9	100.0



REPORT NUMBER: P300565

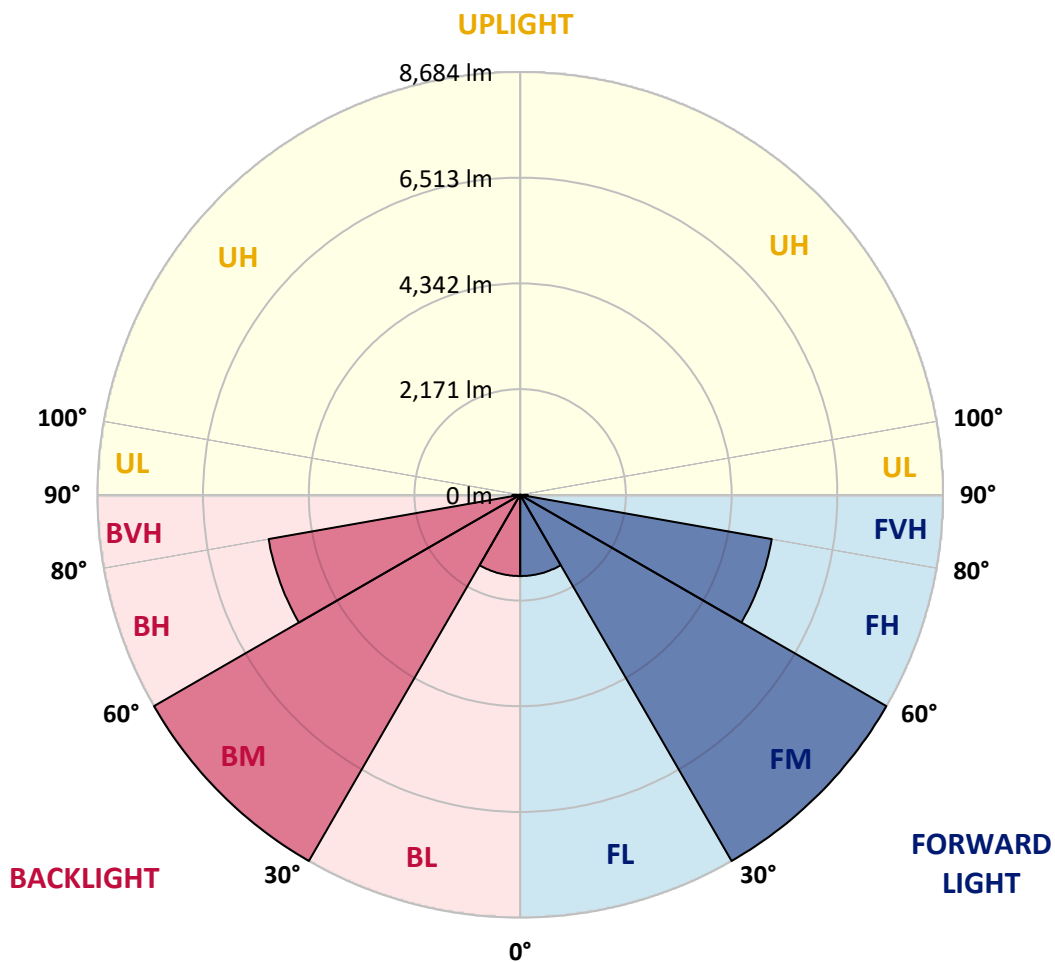
CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1668.6	5.3			
FM	(30°-60°)	8683.6	27.6			
FH	(60°-80°)	5246.1	16.6			G3/7500
FVH	(80°-90°)	157.1	0.5			G2/225
BL	(0°-30°)	1668.6	5.3	B3/2500		
BM	(30°-60°)	8683.6	27.6	B5		
BH	(60°-80°)	5246.1	16.6	B5		G5
BVH	(80°-90°)	157.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium





REPORT NUMBER: P300565

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3
2.5°	3489.3	3486.4	3489.3	3487.8	3490.8	3490.8	3493.8	3499.8	3499.8	3504.2	3502.7
5°	3455.1	3453.6	3458.1	3462.5	3467.0	3475.9	3484.9	3498.3	3508.7	3516.1	3523.6
7.5°	3388.1	3388.1	3394.0	3404.4	3414.9	3434.2	3455.1	3481.9	3508.7	3531.0	3550.4
10°	3333.0	3335.9	3343.4	3361.3	3379.1	3408.9	3437.2	3475.9	3513.2	3550.4	3580.2
12.5°	3300.2	3304.7	3318.1	3344.9	3374.7	3414.9	3458.1	3507.2	3548.9	3593.6	3623.4
15°	3310.6	3313.6	3333.0	3365.7	3404.4	3455.1	3513.2	3571.2	3620.4	3668.0	3708.3
17.5°	3368.7	3373.2	3395.5	3432.7	3473.0	3532.5	3595.1	3660.6	3721.7	3775.3	3824.4
20°	3473.0	3477.4	3505.7	3545.9	3593.6	3654.6	3717.2	3785.7	3854.2	3910.8	3965.9
22.5°	3620.4	3627.8	3654.6	3694.9	3748.5	3814.0	3888.5	3961.4	4027.0	4079.1	4128.2
25°	3814.0	3830.4	3855.7	3900.4	3957.0	4016.5	4097.0	4171.4	4234.0	4283.1	4318.9
27.5°	4088.0	4110.4	4129.7	4172.9	4228.0	4284.6	4365.0	4430.5	4490.1	4537.8	4564.6
30°	4451.4	4473.7	4493.1	4534.8	4585.4	4639.0	4715.0	4773.1	4810.3	4847.5	4846.0
32.5°	4892.2	4916.0	4923.5	4968.2	5020.3	5078.4	5146.9	5179.6	5209.4	5213.9	5187.1
35°	5385.2	5397.1	5426.9	5486.4	5546.0	5593.7	5659.2	5675.6	5675.6	5653.2	5593.7
37.5°	5925.8	5933.2	5974.9	6041.9	6103.0	6152.1	6196.8	6229.6	6213.2	6165.5	6065.8
40°	6518.5	6531.9	6591.5	6651.0	6719.5	6765.7	6813.4	6819.3	6802.9	6732.9	6597.4
42.5°	7084.4	7096.3	7155.9	7249.7	7339.1	7403.1	7447.8	7456.7	7404.6	7340.6	7172.3
45°	7571.4	7602.7	7680.1	7790.3	7919.9	8010.7	8071.8	8097.1	8050.9	7967.5	7772.4
47.5°	7957.1	7988.4	8098.6	8229.6	8390.5	8537.9	8639.2	8692.8	8680.9	8618.3	8405.4
50°	8240.1	8269.9	8389.0	8549.8	8737.5	8920.7	9093.4	9221.5	9266.2	9237.9	9042.8
52.5°	8272.8	8322.0	8462.0	8677.9	8922.1	9172.3	9418.1	9635.5	9782.9	9805.3	9660.8
55°	7815.6	7864.8	8058.4	8378.6	8741.9	9150.0	9543.2	9909.5	10199.9	10348.9	10272.9
57.5°	6737.4	6825.3	7029.3	7404.6	7939.2	8549.8	9176.8	9827.6	10418.9	10813.5	10889.5
60°	5163.3	5267.5	5473.0	5872.1	6467.9	7196.1	8033.1	8995.1	10039.1	10926.7	11456.9
62.5°	3312.1	3410.4	3626.3	3973.3	4458.8	5248.1	6146.2	7288.4	8691.3	10092.7	11355.6
65°	1702.2	1755.8	1869.0	2079.0	2457.3	3047.0	3852.7	4992.0	6595.9	8325.0	10150.8
67.5°	1078.2	1088.6	1114.0	1143.8	1240.6	1444.6	1819.9	2530.3	3849.7	5653.2	7790.3
70°	932.3	932.3	920.4	915.9	927.8	956.1	1014.2	1179.5	1624.8	2683.6	4493.1
72.5°	853.3	844.4	823.6	807.2	804.2	804.2	816.1	841.4	912.9	1093.1	1758.8
75°	786.3	761.0	732.7	713.4	705.9	698.5	697.0	701.4	716.3	744.6	839.9
77.5°	704.4	671.7	638.9	619.5	610.6	600.2	591.2	580.8	573.4	582.3	624.0
80°	606.1	568.9	543.6	531.7	522.7	507.8	488.5	470.6	454.2	451.2	476.6
82.5°	488.5	445.3	446.8	451.2	434.9	414.0	393.2	373.8	345.5	330.6	345.5
85°	394.7	372.3	361.9	390.2	366.4	335.1	302.3	268.1	223.4	187.6	204.0
87.5°	153.4	153.4	229.3	353.0	317.2	259.1	221.9	189.1	117.7	90.8	92.3
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: P300565

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3	3495.3
2.5°	3501.2	3504.2	3502.7	3501.2	3501.2	3499.8	3501.2	3501.2
5°	3528.1	3535.5	3535.5	3538.5	3538.5	3540.0	3541.5	3540.0
7.5°	3568.3	3581.7	3590.6	3601.0	3602.5	3604.0	3607.0	3604.0
10°	3608.5	3635.3	3654.6	3674.0	3682.9	3685.9	3688.9	3688.9
12.5°	3659.1	3696.3	3730.6	3764.8	3781.2	3790.2	3790.2	3796.1
15°	3742.5	3779.7	3819.9	3866.1	3894.4	3909.3	3913.8	3913.8
17.5°	3860.2	3892.9	3927.2	3971.9	4007.6	4027.0	4031.4	4029.9
20°	3997.2	4028.4	4047.8	4076.1	4107.4	4129.7	4135.7	4135.7
22.5°	4153.5	4171.4	4174.4	4183.3	4208.6	4238.4	4251.8	4254.8
25°	4326.3	4330.8	4318.9	4318.9	4335.2	4363.5	4376.9	4378.4
27.5°	4549.7	4527.3	4497.6	4487.1	4497.6	4530.3	4546.7	4552.7
30°	4828.2	4774.6	4706.1	4668.8	4662.9	4706.1	4735.8	4740.3
32.5°	5146.9	5069.4	4978.6	4902.6	4883.3	4910.1	4945.8	4944.3
35°	5525.1	5432.8	5322.6	5225.8	5181.1	5207.9	5258.6	5264.5
37.5°	5961.5	5840.9	5714.3	5592.2	5522.2	5529.6	5583.2	5601.1
40°	6448.5	6292.1	6132.8	5968.9	5869.2	5849.8	5915.3	5925.8
42.5°	6969.7	6768.7	6567.6	6365.1	6237.0	6207.2	6283.2	6278.7
45°	7525.2	7269.1	7033.8	6810.4	6658.5	6613.8	6676.3	6676.3
47.5°	8122.4	7806.7	7526.7	7273.5	7108.2	7044.2	7103.8	7108.2
50°	8755.4	8420.3	8091.1	7809.7	7611.6	7529.7	7607.1	7619.0
52.5°	9385.3	9059.2	8727.1	8405.4	8165.6	8065.8	8155.2	8193.9
55°	10024.2	9704.0	9386.8	9072.6	8788.1	8670.5	8765.8	8814.9
57.5°	10698.8	10402.5	10100.2	9782.9	9508.9	9325.7	9427.0	9492.5
60°	11489.6	11236.5	10922.2	10572.2	10295.2	10109.1	10167.2	10225.2
62.5°	12115.1	12213.4	11946.8	11541.8	11185.8	10947.5	11004.1	11065.2
65°	11812.8	12821.0	13057.8	12648.3	12155.3	11784.5	11760.7	11792.0
67.5°	9873.8	11832.2	13260.4	13650.5	13238.0	12722.7	12627.4	12673.6
70°	6604.9	9044.3	11564.1	13440.6	13939.5	13739.9	13646.1	13674.4
72.5°	3172.1	5267.5	7845.4	10339.9	11859.0	12555.9	12779.3	12888.0
75°	1160.1	2090.9	3781.2	5697.9	6878.9	7963.1	8670.5	8959.4
77.5°	700.0	844.4	1207.8	1818.4	2059.6	2305.4	2210.1	2257.7
80°	518.3	585.3	662.7	744.6	771.4	771.4	741.7	717.8
82.5°	363.4	406.6	443.8	488.5	500.4	478.1	393.2	312.7
85°	233.8	253.2	269.6	297.9	290.4	277.0	186.2	165.3
87.5°	107.2	122.1	128.1	141.5	135.5	129.6	92.3	77.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)