

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: P300628

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300628
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-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29300.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

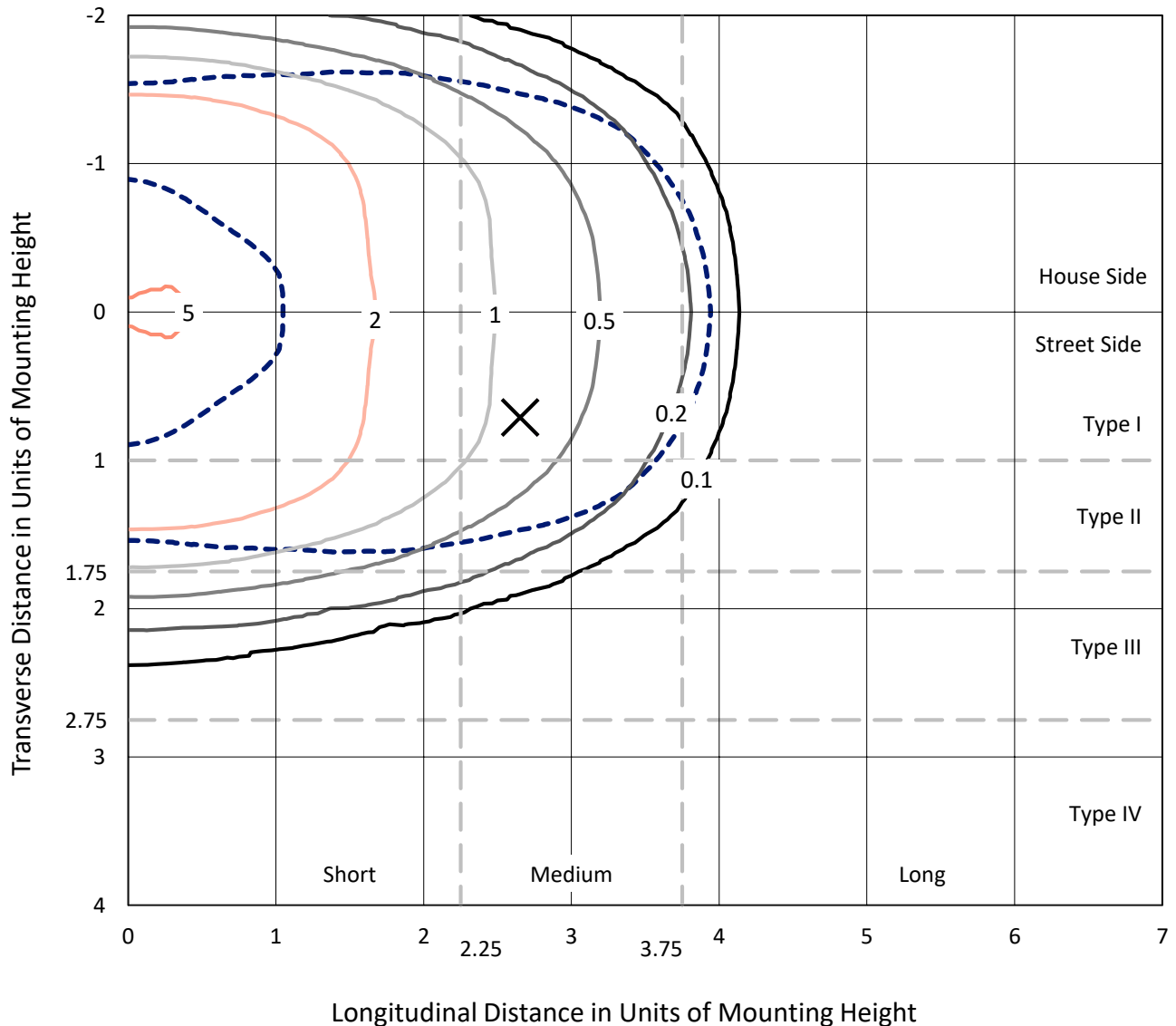
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

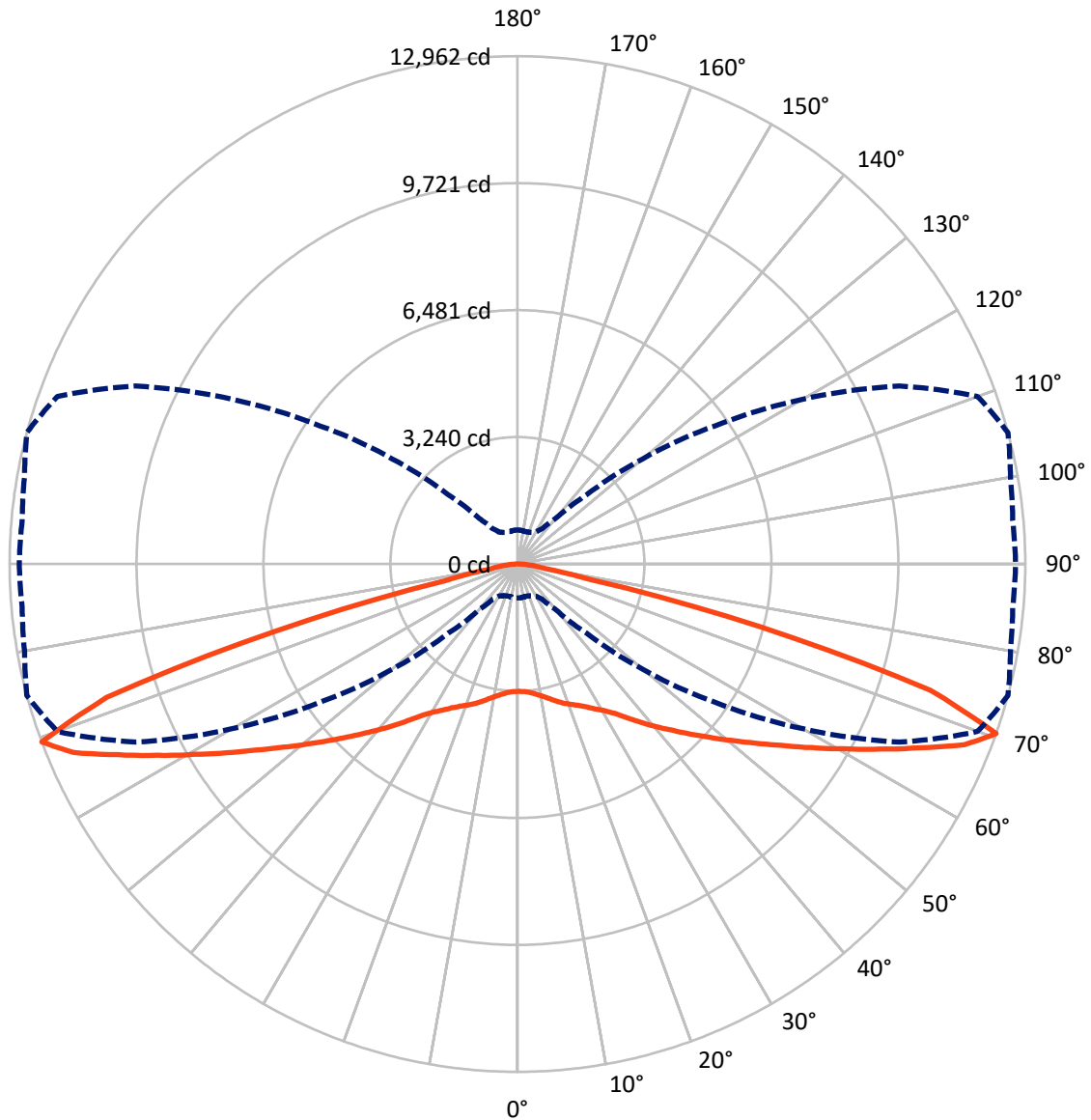
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14650.0	0.0	14650.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14650.0	0.0	14650.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29300.1	0.0	29300.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.7	1.1
10°-20°	968.5	3.3
20°-30°	1822.9	6.2
30°-40°	3228.0	11.0
40°-50°	5398.3	18.4
50°-60°	7522.5	25.7
60°-70°	6975.9	23.8
70°-80°	2780.1	9.5
80°-90°	292.2	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°	29300.1	100.0
0°-180°	29300.1	100.0



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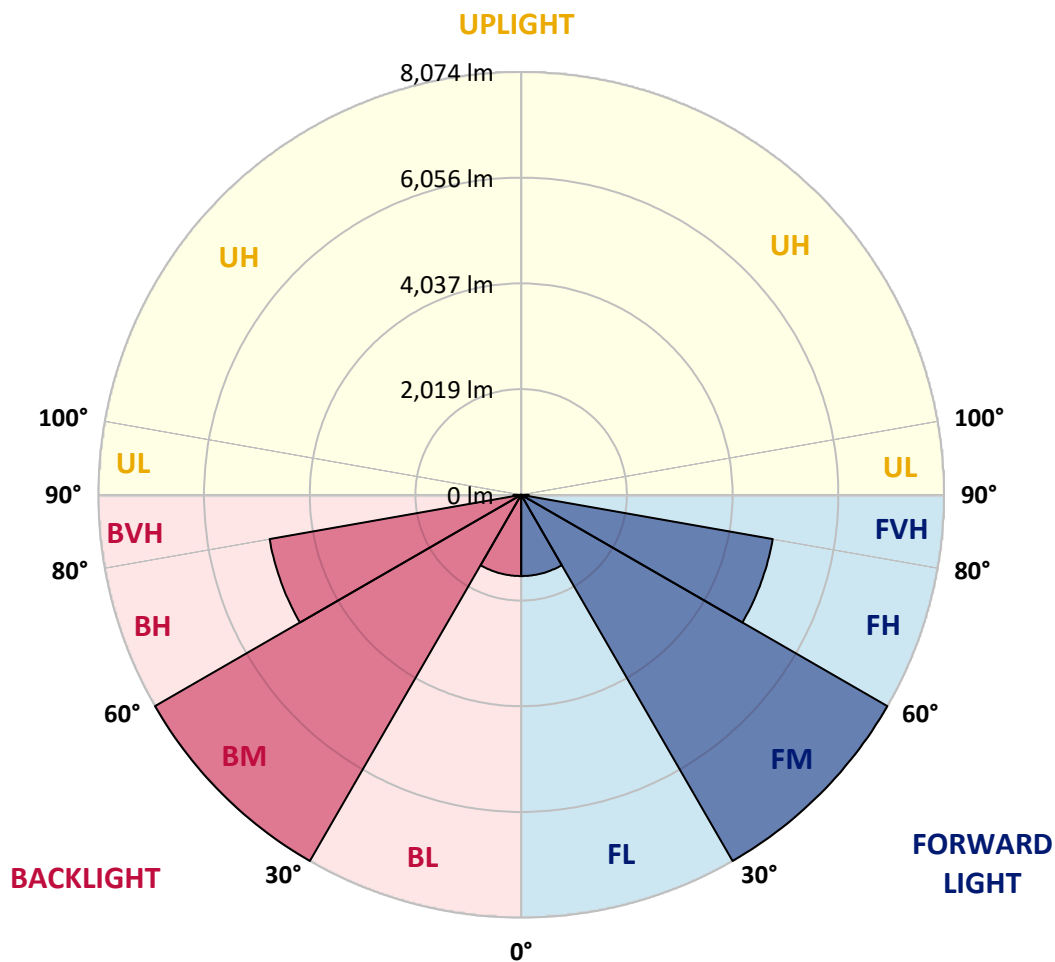
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.6	5.3			
FM	(30°-60°)	8074.4	27.6			
FH	(60°-80°)	4878.0	16.6			G2/5000
FVH	(80°-90°)	146.1	0.5			G2/225
BL	(0°-30°)	1551.6	5.3	B3/2500		
BM	(30°-60°)	8074.4	27.6	B4/8500		
BH	(60°-80°)	4878.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	146.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3244.5	3241.8	3244.5	3243.1	3245.9	3245.9	3248.7	3254.2	3254.2	3258.4	3257.0
5°	3212.7	3211.3	3215.4	3219.6	3223.7	3232.1	3240.4	3252.8	3262.5	3269.4	3276.4
7.5°	3150.4	3150.4	3155.9	3165.6	3175.3	3193.3	3212.7	3237.6	3262.5	3283.3	3301.3
10°	3099.1	3101.9	3108.8	3125.4	3142.0	3169.7	3196.1	3232.1	3266.7	3301.3	3329.0
12.5°	3068.7	3072.8	3085.3	3110.2	3137.9	3175.3	3215.4	3261.1	3299.9	3341.5	3369.2
15°	3078.3	3081.1	3099.1	3129.6	3165.6	3212.7	3266.7	3320.7	3366.4	3410.7	3448.1
17.5°	3132.4	3136.5	3157.3	3191.9	3229.3	3284.7	3342.8	3403.8	3460.5	3510.4	3556.1
20°	3229.3	3233.4	3259.8	3297.1	3341.5	3398.2	3456.4	3520.1	3583.8	3636.4	3687.6
22.5°	3366.4	3373.3	3398.2	3435.6	3485.5	3546.4	3615.6	3683.5	3744.4	3792.9	3838.6
25°	3546.4	3561.6	3585.2	3626.7	3679.3	3734.7	3809.5	3878.7	3936.9	3982.6	4015.8
27.5°	3801.2	3822.0	3840.0	3880.1	3931.4	3984.0	4058.8	4119.7	4175.1	4219.4	4244.3
30°	4139.1	4159.9	4177.9	4216.6	4263.7	4313.6	4384.2	4438.2	4472.8	4507.4	4506.0
32.5°	4549.0	4571.1	4578.1	4619.6	4668.1	4722.1	4785.8	4816.2	4843.9	4848.1	4823.2
35°	5007.3	5018.4	5046.1	5101.5	5156.9	5201.2	5262.1	5277.4	5277.4	5256.6	5201.2
37.5°	5510.0	5516.9	5555.7	5618.0	5674.8	5720.5	5762.0	5792.5	5777.3	5733.0	5640.2
40°	6061.1	6073.6	6129.0	6184.4	6248.1	6291.0	6335.3	6340.9	6325.6	6260.6	6134.5
42.5°	6587.4	6598.4	6653.8	6741.1	6824.2	6883.7	6925.2	6933.6	6885.1	6825.5	6669.1
45°	7040.2	7069.3	7141.3	7243.7	7364.2	7448.7	7505.5	7529.0	7486.1	7408.5	7227.1
47.5°	7398.8	7427.9	7530.4	7652.3	7801.8	7938.9	8033.1	8082.9	8071.8	8013.7	7815.7
50°	7661.9	7689.6	7800.4	7950.0	8124.5	8294.8	8455.4	8574.5	8616.1	8589.7	8408.3
52.5°	7692.4	7738.1	7868.3	8069.1	8296.2	8528.8	8757.3	8959.5	9096.6	9117.3	8983.0
55°	7267.3	7313.0	7493.0	7790.7	8128.6	8508.0	8873.6	9214.3	9484.3	9622.8	9552.2
57.5°	6264.7	6346.4	6536.1	6885.1	7382.2	7950.0	8533.0	9138.1	9687.9	10054.8	10125.5
60°	4801.0	4897.9	5089.0	5460.2	6014.1	6691.2	7469.5	8364.0	9334.7	10160.1	10653.1
62.5°	3079.7	3171.1	3371.9	3694.6	4146.0	4879.9	5715.0	6777.1	8081.5	9384.6	10558.9
65°	1582.8	1632.6	1737.9	1933.1	2284.9	2833.2	3582.4	4641.8	6133.2	7740.9	9438.6
67.5°	1002.6	1012.3	1035.8	1063.5	1153.5	1343.2	1692.2	2352.7	3579.6	5256.6	7243.7
70°	866.9	866.9	855.8	851.6	862.7	889.0	943.0	1096.7	1510.8	2495.4	4177.9
72.5°	793.5	785.2	765.8	750.5	747.8	747.8	758.9	782.4	848.9	1016.4	1635.4
75°	731.2	707.6	681.3	663.3	656.4	649.5	648.1	652.2	666.1	692.4	781.0
77.5°	655.0	624.5	594.1	576.1	567.8	558.1	549.8	540.1	533.1	541.4	580.2
80°	563.6	529.0	505.4	494.4	486.1	472.2	454.2	437.6	422.4	419.6	443.1
82.5°	454.2	414.0	415.4	419.6	404.4	385.0	365.6	347.6	321.3	307.4	321.3
85°	367.0	346.2	336.5	362.8	340.7	311.6	281.1	249.3	207.7	174.5	189.7
87.5°	142.6	142.6	213.3	328.2	295.0	241.0	206.3	175.9	109.4	84.5	85.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3255.6	3258.4	3257.0	3255.6	3255.6	3254.2	3255.6	3255.6
5°	3280.5	3287.4	3287.4	3290.2	3290.2	3291.6	3293.0	3291.6
7.5°	3317.9	3330.4	3338.7	3348.4	3349.8	3351.1	3353.9	3351.1
10°	3355.3	3380.2	3398.2	3416.2	3424.5	3427.3	3430.1	3430.1
12.5°	3402.4	3437.0	3468.9	3500.7	3515.9	3524.2	3524.2	3529.8
15°	3479.9	3514.6	3551.9	3594.9	3621.2	3635.0	3639.2	3639.2
17.5°	3589.3	3619.8	3651.6	3693.2	3726.4	3744.4	3748.6	3747.2
20°	3716.7	3745.8	3763.8	3790.1	3819.2	3840.0	3845.5	3845.5
22.5°	3862.1	3878.7	3881.5	3889.8	3913.4	3941.1	3953.5	3956.3
25°	4022.8	4026.9	4015.8	4015.8	4031.1	4057.4	4069.8	4071.2
27.5°	4230.5	4209.7	4182.0	4172.3	4182.0	4212.5	4227.7	4233.2
30°	4489.4	4439.6	4375.9	4341.3	4335.7	4375.9	4403.6	4407.7
32.5°	4785.8	4713.8	4629.3	4558.7	4540.7	4565.6	4598.8	4597.4
35°	5137.5	5051.6	4949.2	4859.2	4817.6	4842.5	4889.6	4895.2
37.5°	5543.2	5431.1	5313.4	5199.8	5134.7	5141.7	5191.5	5208.1
40°	5996.1	5850.7	5702.5	5550.2	5457.4	5439.4	5500.3	5510.0
42.5°	6480.7	6293.8	6106.8	5918.5	5799.4	5771.7	5842.4	5838.2
45°	6997.3	6759.1	6540.3	6332.6	6191.3	6149.8	6207.9	6207.9
47.5°	7552.5	7259.0	6998.6	6763.2	6609.5	6550.0	6605.4	6609.5
50°	8141.1	7829.5	7523.5	7261.7	7077.6	7001.4	7073.4	7084.5
52.5°	8726.8	8423.6	8114.8	7815.7	7592.7	7499.9	7583.0	7619.0
55°	9320.9	9023.2	8728.2	8436.0	8171.5	8062.1	8150.8	8196.5
57.5°	9948.2	9672.6	9391.5	9096.6	8841.8	8671.4	8765.6	8826.5
60°	10683.5	10448.1	10155.9	9830.5	9572.9	9399.8	9453.8	9507.8
62.5°	11265.1	11356.5	11108.6	10732.0	10401.0	10179.5	10232.1	10288.9
65°	10984.0	11921.5	12141.7	11760.9	11302.5	10957.7	10935.5	10964.6
67.5°	9181.0	11002.0	12330.0	12692.8	12309.2	11830.1	11741.5	11784.4
70°	6141.5	8409.7	10752.8	12497.6	12961.5	12775.9	12688.7	12715.0
72.5°	2949.6	4897.9	7295.0	9614.5	11026.9	11675.0	11882.7	11983.8
75°	1078.7	1944.2	3515.9	5298.1	6396.3	7404.4	8062.1	8330.8
77.5°	650.8	785.2	1123.1	1690.8	1915.1	2143.6	2055.0	2099.3
80°	481.9	544.2	616.2	692.4	717.3	717.3	689.6	667.5
82.5°	337.9	378.0	412.7	454.2	465.3	444.5	365.6	290.8
85°	217.4	235.4	250.6	277.0	270.0	257.6	173.1	153.7
87.5°	99.7	113.6	119.1	131.6	126.0	120.5	85.9	72.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)