

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: P300631

Luminaire Tested: **GLNA-AF-07-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300631
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-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K 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: 30105.9 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 295
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

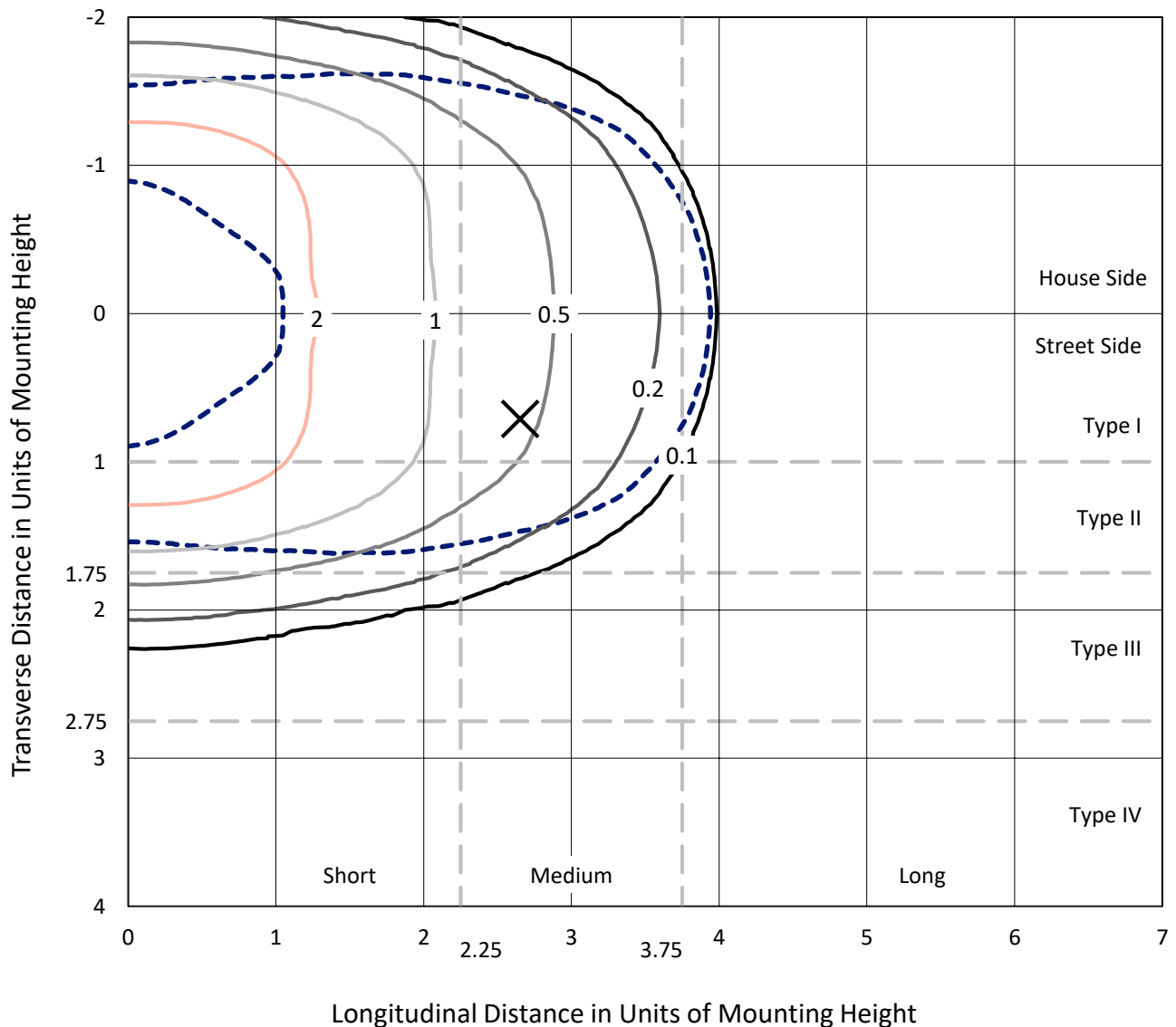


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Iso-Footcandle Lines of Horizontal Illumination

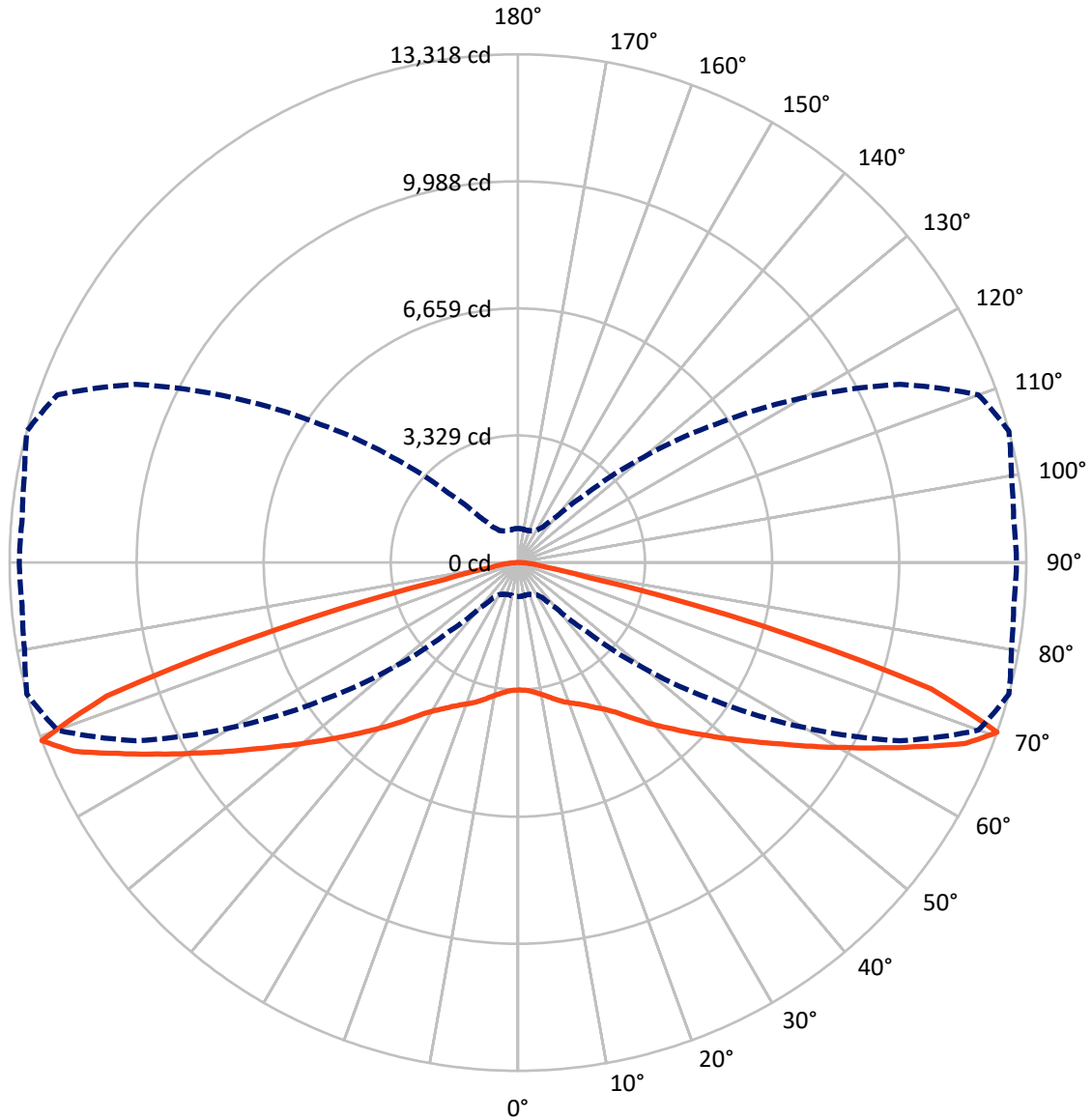
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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	15052.9	0.0	15052.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15052.9	0.0	15052.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	30105.9	0.0	30105.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.3	1.1
10°-20°	995.2	3.3
20°-30°	1873.0	6.2
30°-40°	3316.8	11.0
40°-50°	5546.7	18.4
50°-60°	7729.4	25.7
60°-70°	7167.7	23.8
70°-80°	2856.6	9.5
80°-90°	300.3	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°	30105.9	100.0
0°-180°	30105.9	100.0



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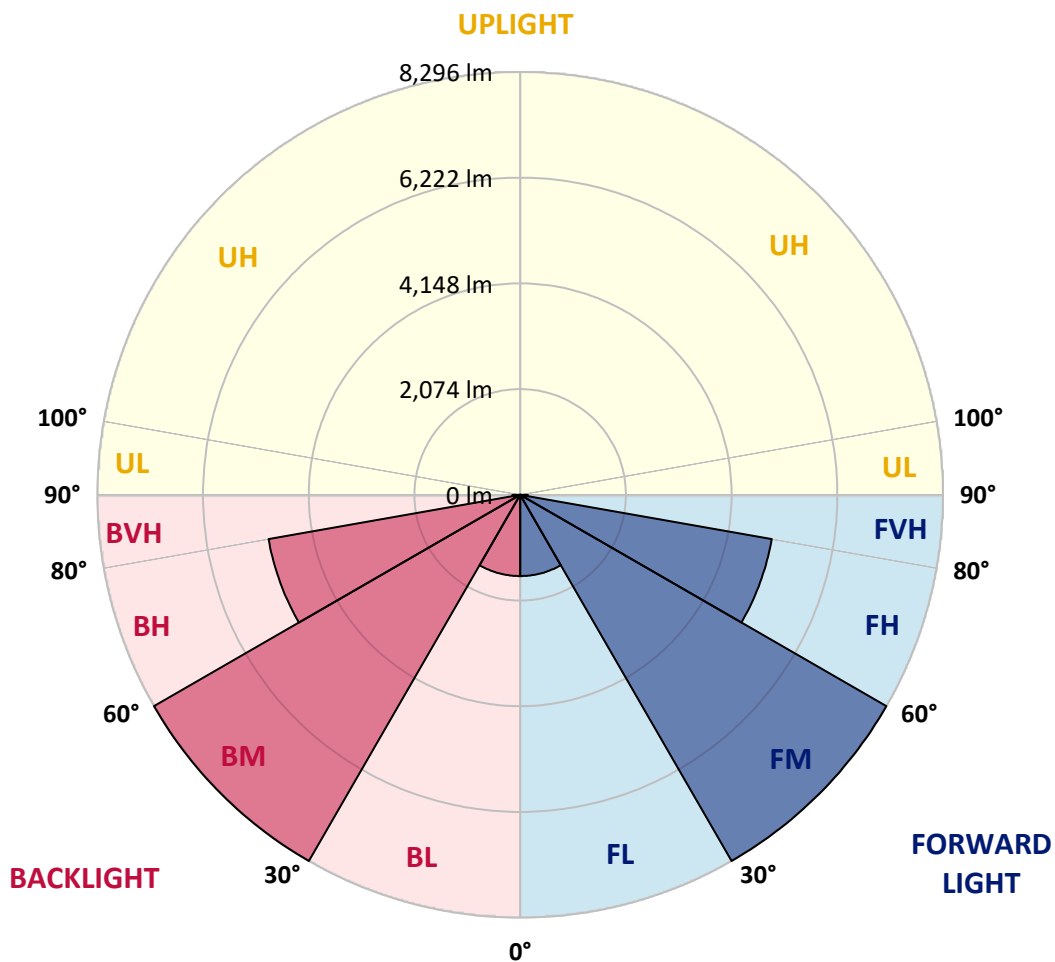
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1594.2	5.3			
FM	(30°-60°)	8296.4	27.6			
FH	(60°-80°)	5012.1	16.6			G3/7500
FVH	(80°-90°)	150.1	0.5			G2/225
BL	(0°-30°)	1594.2	5.3	B3/2500		
BM	(30°-60°)	8296.4	27.6	B4/8500		
BH	(60°-80°)	5012.1	16.6	B5		G5
BVH	(80°-90°)	150.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4
2.5°	3333.7	3330.9	3333.7	3332.3	3335.2	3335.2	3338.0	3343.7	3343.7	3348.0	3346.6
5°	3301.0	3299.6	3303.9	3308.1	3312.4	3320.9	3329.5	3342.3	3352.2	3359.4	3366.5
7.5°	3237.0	3237.0	3242.7	3252.6	3262.6	3281.1	3301.0	3326.6	3352.2	3373.6	3392.1
10°	3184.3	3187.2	3194.3	3211.4	3228.5	3256.9	3283.9	3320.9	3356.5	3392.1	3420.5
12.5°	3153.0	3157.3	3170.1	3195.7	3224.2	3262.6	3303.9	3350.8	3390.7	3433.3	3461.8
15°	3163.0	3165.9	3184.3	3215.7	3252.6	3301.0	3356.5	3412.0	3459.0	3504.5	3542.9
17.5°	3218.5	3222.8	3244.1	3279.7	3318.1	3375.0	3434.8	3497.4	3555.7	3606.9	3653.9
20°	3318.1	3322.4	3349.4	3387.8	3433.3	3491.7	3551.4	3616.9	3682.3	3736.4	3789.1
22.5°	3459.0	3466.1	3491.7	3530.1	3581.3	3643.9	3715.1	3784.8	3847.4	3897.2	3944.2
25°	3643.9	3659.6	3683.8	3726.5	3780.5	3837.4	3914.3	3985.4	4045.2	4092.1	4126.3
27.5°	3905.7	3927.1	3945.6	3986.8	4039.5	4093.6	4170.4	4233.0	4289.9	4335.4	4361.1
30°	4252.9	4274.3	4292.8	4332.6	4381.0	4432.2	4504.8	4560.3	4595.8	4631.4	4630.0
32.5°	4674.1	4696.8	4704.0	4746.6	4796.4	4851.9	4917.4	4948.7	4977.1	4981.4	4955.8
35°	5145.0	5156.4	5184.9	5241.8	5298.7	5344.2	5406.8	5422.5	5422.5	5401.2	5344.2
37.5°	5661.5	5668.7	5708.5	5772.5	5830.9	5877.8	5920.5	5951.8	5936.2	5890.6	5795.3
40°	6227.8	6240.6	6297.6	6354.5	6419.9	6464.0	6509.6	6515.3	6499.6	6432.7	6303.2
42.5°	6768.5	6779.9	6836.8	6926.5	7011.8	7073.0	7115.7	7124.2	7074.4	7013.3	6852.5
45°	7233.8	7263.7	7337.7	7443.0	7566.7	7653.5	7711.9	7736.1	7692.0	7612.3	7425.9
47.5°	7602.3	7632.2	7737.5	7862.7	8016.4	8157.2	8254.0	8305.2	8293.8	8234.1	8030.6
50°	7872.7	7901.1	8014.9	8168.6	8347.9	8522.9	8688.0	8810.3	8853.0	8826.0	8639.6
52.5°	7904.0	7950.9	8084.7	8291.0	8524.3	8763.4	8998.1	9205.9	9346.7	9368.1	9230.1
55°	7467.1	7514.1	7699.1	8005.0	8352.2	8742.0	9117.7	9467.7	9745.1	9887.4	9814.9
57.5°	6437.0	6520.9	6715.9	7074.4	7585.2	8168.6	8767.6	9389.4	9954.3	10331.4	10403.9
60°	4933.0	5032.6	5229.0	5610.3	6179.5	6875.2	7674.9	8594.0	9591.5	10439.5	10946.0
62.5°	3164.4	3258.3	3464.7	3796.2	4260.0	5014.1	5872.1	6963.5	8303.8	9642.7	10849.3
65°	1626.3	1677.5	1785.7	1986.3	2347.7	2911.2	3680.9	4769.4	6301.8	7953.8	9698.2
67.5°	1030.1	1040.1	1064.3	1092.8	1185.2	1380.2	1738.7	2417.4	3678.1	5401.2	7443.0
70°	890.7	890.7	879.3	875.1	886.4	913.5	969.0	1126.9	1552.3	2564.0	4292.8
72.5°	815.3	806.8	786.8	771.2	768.3	768.3	779.7	803.9	872.2	1044.4	1680.4
75°	751.3	727.1	700.0	681.5	674.4	667.3	665.9	670.2	684.4	711.4	802.5
77.5°	673.0	641.7	610.4	591.9	583.4	573.4	564.9	554.9	547.8	556.3	596.2
80°	579.1	543.5	519.3	508.0	499.4	485.2	466.7	449.6	434.0	431.1	455.3
82.5°	466.7	425.4	426.9	431.1	415.5	395.6	375.6	357.1	330.1	315.9	330.1
85°	377.1	355.7	345.8	372.8	350.0	320.1	288.8	256.1	213.4	179.3	194.9
87.5°	146.6	146.6	219.1	337.2	303.1	247.6	212.0	180.7	112.4	86.8	88.2
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°	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4	3339.4
2.5°	3345.1	3348.0	3346.6	3345.1	3345.1	3343.7	3345.1	3345.1
5°	3370.7	3377.9	3377.9	3380.7	3380.7	3382.1	3383.5	3382.1
7.5°	3409.2	3422.0	3430.5	3440.5	3441.9	3443.3	3446.2	3443.3
10°	3447.6	3473.2	3491.7	3510.2	3518.7	3521.6	3524.4	3524.4
12.5°	3496.0	3531.5	3564.3	3597.0	3612.6	3621.2	3621.2	3626.9
15°	3575.6	3611.2	3649.6	3693.7	3720.8	3735.0	3739.3	3739.3
17.5°	3688.0	3719.3	3752.1	3794.8	3828.9	3847.4	3851.7	3850.2
20°	3818.9	3848.8	3867.3	3894.4	3924.2	3945.6	3951.3	3951.3
22.5°	3968.3	3985.4	3988.3	3996.8	4021.0	4049.4	4062.3	4065.1
25°	4133.4	4137.7	4126.3	4126.3	4141.9	4169.0	4181.8	4183.2
27.5°	4346.8	4325.5	4297.0	4287.1	4297.0	4328.3	4344.0	4349.7
30°	4612.9	4561.7	4496.2	4460.7	4455.0	4496.2	4524.7	4528.9
32.5°	4917.4	4843.4	4756.6	4684.0	4665.5	4691.2	4725.3	4723.9
35°	5278.8	5190.6	5085.3	4992.8	4950.1	4975.7	5024.1	5029.8
37.5°	5695.7	5580.4	5459.5	5342.8	5275.9	5283.1	5334.3	5351.4
40°	6161.0	6011.6	5859.3	5702.8	5607.5	5589.0	5651.6	5661.5
42.5°	6659.0	6466.9	6274.8	6081.3	5958.9	5930.5	6003.0	5998.8
45°	7189.7	6945.0	6720.1	6506.7	6361.6	6318.9	6378.7	6378.7
47.5°	7760.3	7458.6	7191.1	6949.2	6791.3	6730.1	6787.0	6791.3
50°	8365.0	8044.8	7730.4	7461.5	7272.2	7194.0	7267.9	7279.3
52.5°	8966.8	8655.2	8337.9	8030.6	7801.5	7706.2	7791.6	7828.5
55°	9577.2	9271.3	8968.3	8668.0	8396.3	8283.9	8374.9	8421.9
57.5°	10221.8	9938.6	9649.8	9346.7	9084.9	8909.9	9006.7	9069.3
60°	10977.3	10735.4	10435.2	10100.8	9836.2	9658.3	9713.8	9769.3
62.5°	11574.9	11668.8	11414.1	11027.1	10687.1	10459.4	10513.5	10571.8
65°	11286.1	12249.4	12475.6	12084.3	11613.3	11259.1	11236.3	11266.2
67.5°	9433.5	11304.6	12669.1	13041.9	12647.8	12155.5	12064.4	12108.5
70°	6310.4	8641.0	11048.5	12841.3	13317.9	13127.3	13037.6	13064.7
72.5°	3030.7	5032.6	7495.6	9878.9	11330.2	11996.1	12209.5	12313.4
75°	1108.4	1997.7	3612.6	5443.8	6572.2	7608.0	8283.9	8559.9
77.5°	668.7	806.8	1153.9	1737.3	1967.8	2202.6	2111.5	2157.0
80°	495.2	559.2	633.2	711.4	737.0	737.0	708.6	685.8
82.5°	347.2	388.4	424.0	466.7	478.1	456.7	375.6	298.8
85°	223.4	241.9	257.5	284.6	277.5	264.7	177.9	157.9
87.5°	102.4	116.7	122.4	135.2	129.5	123.8	88.2	74.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)