

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: P300694

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300694
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-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K 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: 28254.9 lumens
Efficiency: N/A
Efficacy: 125.0 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

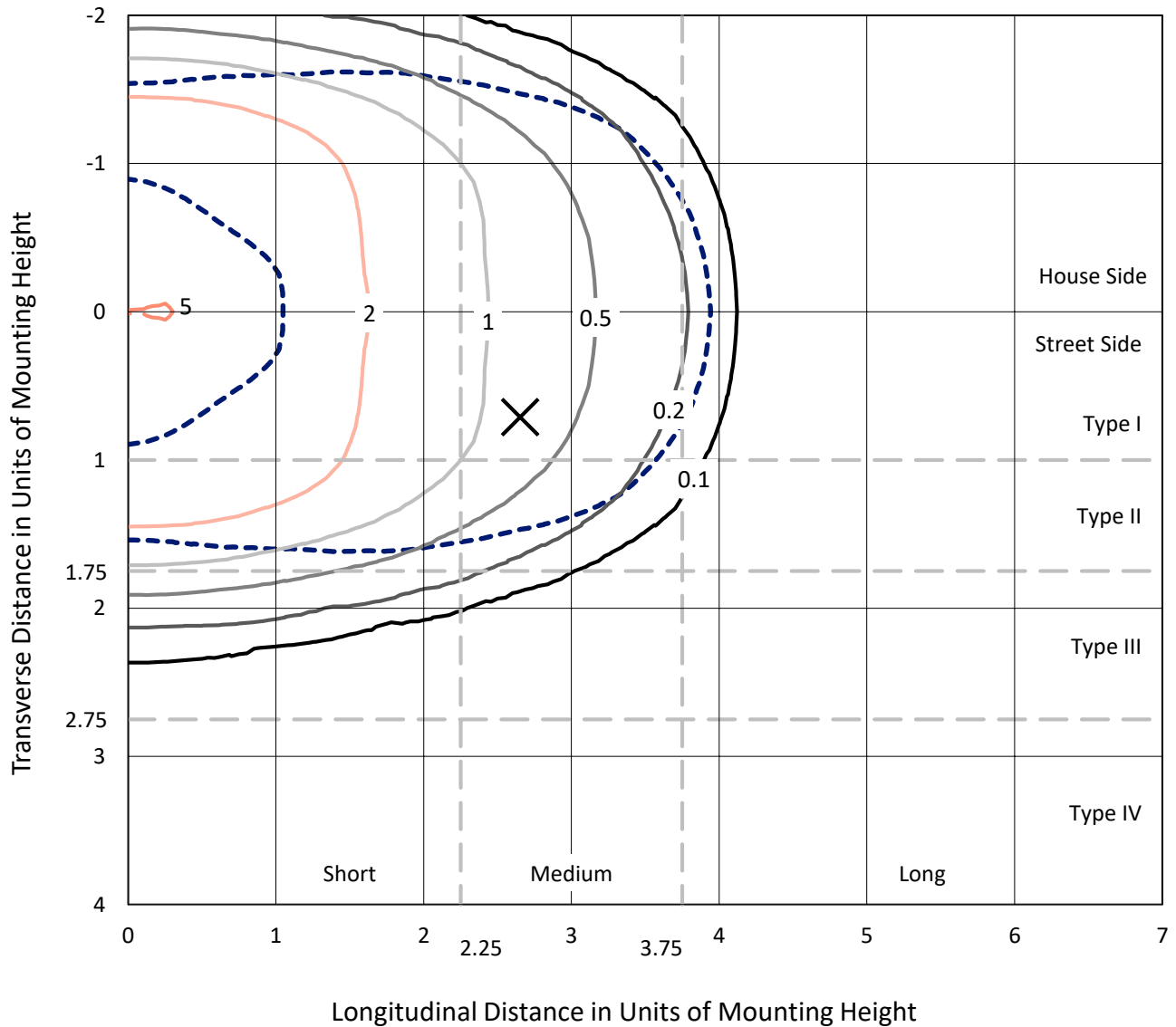
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

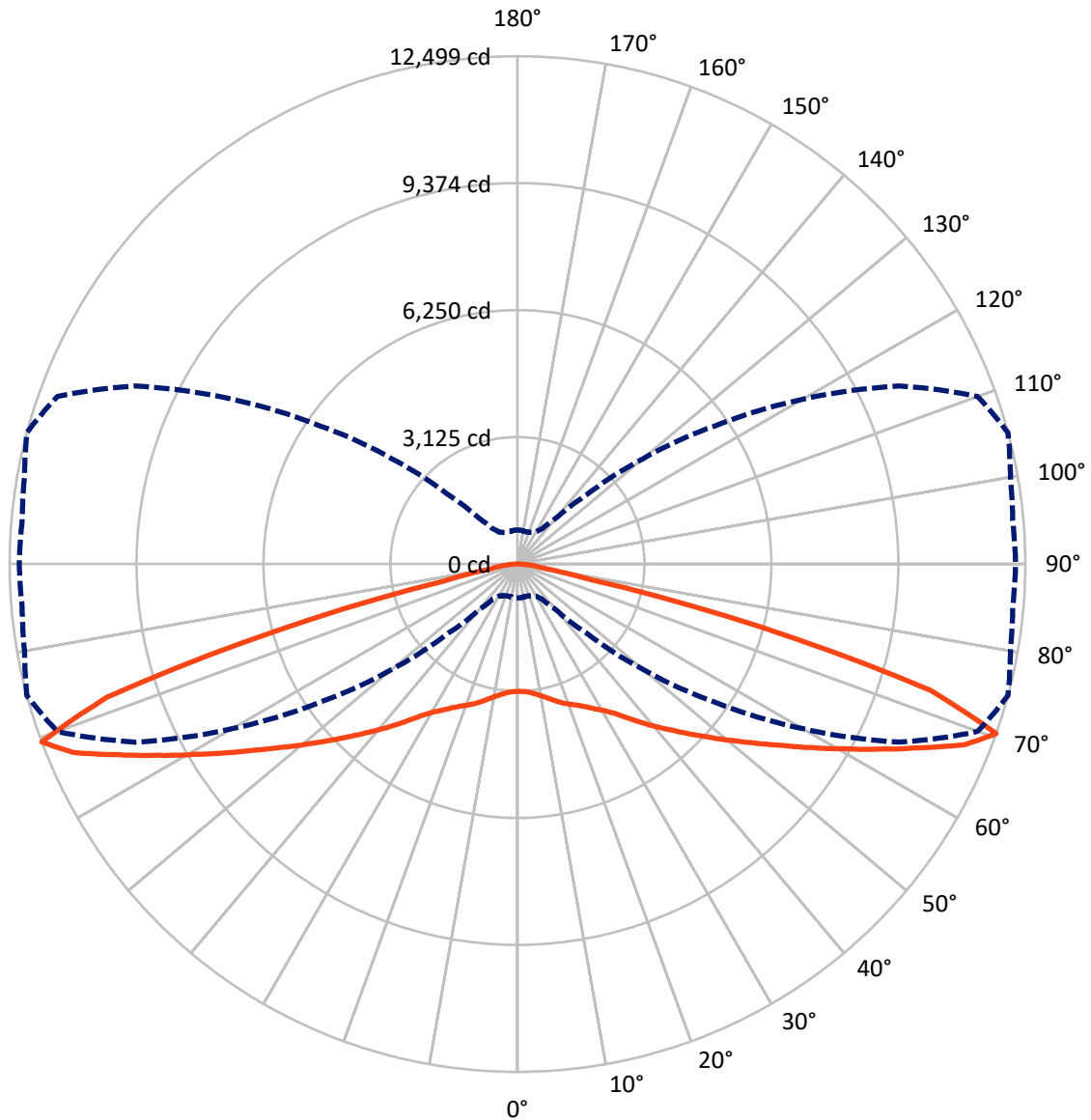
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	14127.5	0.0	14127.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14127.5	0.0	14127.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28254.9	0.0	28254.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.1
10°-20°	934.0	3.3
20°-30°	1757.9	6.2
30°-40°	3112.9	11.0
40°-50°	5205.7	18.4
50°-60°	7254.1	25.7
60°-70°	6727.1	23.8
70°-80°	2680.9	9.5
80°-90°	281.8	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°	28254.9	100.0
0°-180°	28254.9	100.0



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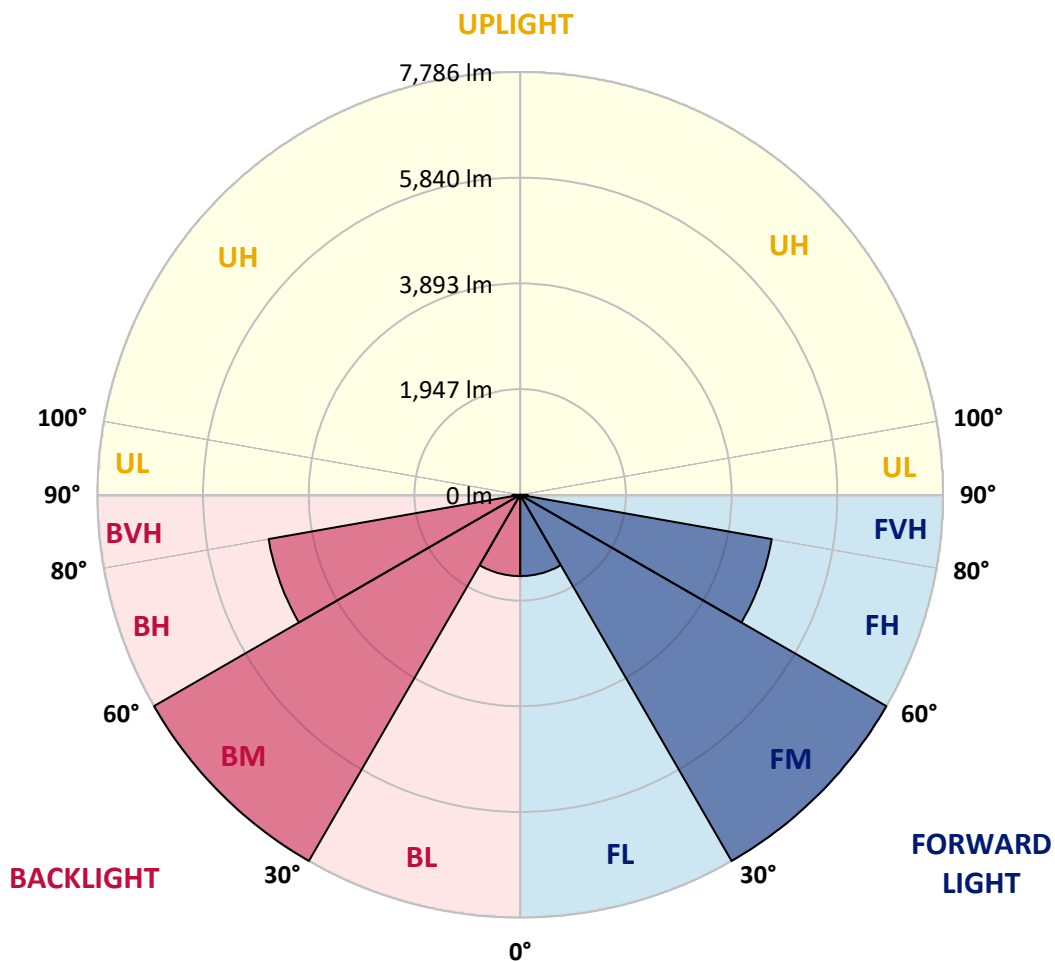
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1496.2	5.3			
FM	(30°-60°)	7786.3	27.6			
FH	(60°-80°)	4704.0	16.6			G2/5000
FVH	(80°-90°)	140.9	0.5			G2/225
BL	(0°-30°)	1496.2	5.3	B3/2500		
BM	(30°-60°)	7786.3	27.6	B4/8500		
BH	(60°-80°)	4704.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	140.9	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°	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1
2.5°	3128.8	3126.1	3128.8	3127.5	3130.1	3130.1	3132.8	3138.1	3138.1	3142.1	3140.8
5°	3098.1	3096.7	3100.7	3104.8	3108.8	3116.8	3124.8	3136.8	3146.1	3152.8	3159.5
7.5°	3038.0	3038.0	3043.3	3052.7	3062.0	3079.4	3098.1	3122.1	3146.1	3166.2	3183.5
10°	2988.6	2991.2	2997.9	3013.9	3030.0	3056.7	3082.1	3116.8	3150.2	3183.5	3210.2
12.5°	2959.2	2963.2	2975.2	2999.3	3026.0	3062.0	3100.7	3144.8	3182.2	3222.3	3249.0
15°	2968.5	2971.2	2988.6	3018.0	3052.7	3098.1	3150.2	3202.2	3246.3	3289.0	3325.1
17.5°	3020.6	3024.6	3044.7	3078.0	3114.1	3167.5	3223.6	3282.4	3337.1	3385.2	3429.2
20°	3114.1	3118.1	3143.5	3179.5	3222.3	3277.0	3333.1	3394.5	3456.0	3506.7	3556.1
22.5°	3246.3	3253.0	3277.0	3313.1	3361.1	3419.9	3486.7	3552.1	3610.9	3657.6	3701.7
25°	3419.9	3434.6	3457.3	3497.4	3548.1	3601.5	3673.6	3740.4	3796.5	3840.5	3872.6
27.5°	3665.6	3685.6	3703.0	3741.7	3791.1	3841.9	3914.0	3972.7	4026.2	4068.9	4092.9
30°	3991.4	4011.5	4028.8	4066.2	4111.6	4159.7	4227.8	4279.9	4313.3	4346.7	4345.3
32.5°	4386.7	4408.1	4414.8	4454.8	4501.6	4553.6	4615.1	4644.4	4671.1	4675.2	4651.1
35°	4828.7	4839.4	4866.1	4919.5	4972.9	5015.7	5074.4	5089.1	5089.1	5069.1	5015.7
37.5°	5313.5	5320.1	5357.5	5417.6	5472.4	5516.4	5556.5	5585.9	5571.2	5528.5	5439.0
40°	5844.9	5857.0	5910.4	5963.8	6025.2	6066.6	6109.3	6114.7	6100.0	6037.2	5915.7
42.5°	6352.4	6363.1	6416.5	6500.6	6580.7	6638.2	6678.2	6686.2	6639.5	6582.1	6431.2
45°	6789.1	6817.1	6886.5	6985.4	7101.5	7183.0	7237.7	7260.4	7219.0	7144.3	6969.3
47.5°	7134.9	7163.0	7261.8	7379.3	7523.5	7655.7	7746.5	7794.6	7783.9	7727.8	7536.9
50°	7388.6	7415.3	7522.2	7666.4	7834.7	7998.9	8153.8	8268.7	8308.7	8283.3	8108.4
52.5°	7418.0	7462.1	7587.6	7781.2	8000.2	8224.6	8444.9	8639.9	8772.1	8792.1	8662.6
55°	7008.1	7052.1	7225.7	7512.8	7838.7	8204.6	8557.1	8885.6	9146.0	9279.5	9211.4
57.5°	6041.2	6120.0	6303.0	6639.5	7118.9	7666.4	8228.6	8812.2	9342.3	9696.2	9764.3
60°	4629.8	4723.2	4907.5	5265.4	5799.5	6452.5	7203.0	8065.7	9001.8	9797.7	10273.1
62.5°	2969.9	3058.0	3251.6	3562.8	3998.1	4705.9	5511.1	6535.3	7793.3	9049.9	10182.2
65°	1526.3	1574.4	1675.9	1864.2	2203.4	2732.2	3454.6	4476.2	5914.4	7464.8	9101.9
67.5°	966.8	976.2	998.9	1025.6	1112.4	1295.3	1631.8	2268.8	3451.9	5069.1	6985.4
70°	835.9	835.9	825.3	821.3	831.9	857.3	909.4	1057.6	1456.9	2406.3	4028.8
72.5°	765.2	757.2	738.5	723.8	721.1	721.1	731.8	754.5	818.6	980.2	1577.1
75°	705.1	682.4	657.0	639.6	633.0	626.3	625.0	629.0	642.3	667.7	753.2
77.5°	631.6	602.3	572.9	555.5	547.5	538.2	530.1	520.8	514.1	522.1	559.5
80°	543.5	510.1	487.4	476.7	468.7	455.4	438.0	422.0	407.3	404.6	427.3
82.5°	438.0	399.3	400.6	404.6	389.9	371.2	352.5	335.2	309.8	296.5	309.8
85°	353.9	333.8	324.5	349.9	328.5	300.5	271.1	240.4	200.3	168.3	182.9
87.5°	137.5	137.5	205.6	316.5	284.4	232.4	199.0	169.6	105.5	81.5	82.8
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°	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1	3134.1
2.5°	3139.5	3142.1	3140.8	3139.5	3139.5	3138.1	3139.5	3139.5
5°	3163.5	3170.2	3170.2	3172.9	3172.9	3174.2	3175.5	3174.2
7.5°	3199.6	3211.6	3219.6	3228.9	3230.3	3231.6	3234.3	3231.6
10°	3235.6	3259.7	3277.0	3294.4	3302.4	3305.1	3307.7	3307.7
12.5°	3281.0	3314.4	3345.1	3375.8	3390.5	3398.5	3398.5	3403.9
15°	3355.8	3389.2	3425.2	3466.6	3492.0	3505.4	3509.4	3509.4
17.5°	3461.3	3490.7	3521.4	3561.5	3593.5	3610.9	3614.9	3613.5
20°	3584.2	3612.2	3629.6	3654.9	3683.0	3703.0	3708.3	3708.3
22.5°	3724.4	3740.4	3743.1	3751.1	3773.8	3800.5	3812.5	3815.2
25°	3879.3	3883.3	3872.6	3872.6	3887.3	3912.7	3924.7	3926.0
27.5°	4079.6	4059.5	4032.8	4023.5	4032.8	4062.2	4076.9	4082.2
30°	4329.3	4281.2	4219.8	4186.4	4181.1	4219.8	4246.5	4250.5
32.5°	4615.1	4545.6	4464.2	4396.1	4378.7	4402.7	4434.8	4433.5
35°	4954.2	4871.5	4772.6	4685.8	4645.8	4669.8	4715.2	4720.6
37.5°	5345.5	5237.3	5123.8	5014.3	4951.6	4958.3	5006.3	5022.4
40°	5782.2	5642.0	5499.1	5352.2	5262.7	5245.4	5304.1	5313.5
42.5°	6249.6	6069.3	5889.0	5707.4	5592.6	5565.9	5634.0	5629.9
45°	6747.7	6518.0	6307.0	6106.7	5970.5	5930.4	5986.5	5986.5
47.5°	7283.1	7000.0	6749.0	6522.0	6373.8	6316.3	6369.7	6373.8
50°	7850.7	7550.2	7255.1	7002.7	6825.1	6751.7	6821.1	6831.8
52.5°	8415.5	8123.1	7825.3	7536.9	7321.9	7232.4	7312.5	7347.2
55°	8988.4	8701.3	8416.9	8135.1	7880.1	7774.6	7860.0	7904.1
57.5°	9593.3	9327.6	9056.5	8772.1	8526.4	8362.1	8452.9	8511.7
60°	10302.4	10075.4	9793.7	9479.8	9231.5	9064.5	9116.6	9168.7
62.5°	10863.3	10951.4	10712.4	10349.2	10030.0	9816.4	9867.1	9921.9
65°	10592.2	11496.3	11708.6	11341.4	10899.3	10566.8	10545.5	10573.5
67.5°	8853.5	10609.6	11890.2	12240.1	11870.2	11408.1	11322.7	11364.1
70°	5922.4	8109.7	10369.2	12051.8	12499.1	12320.2	12236.1	12261.4
72.5°	2844.4	4723.2	7034.8	9271.5	10633.6	11258.6	11458.9	11556.4
75°	1040.3	1874.9	3390.5	5109.2	6168.1	7140.3	7774.6	8033.6
77.5°	627.6	757.2	1083.0	1630.5	1846.8	2067.2	1981.7	2024.4
80°	464.7	524.8	594.2	667.7	691.7	691.7	665.0	643.7
82.5°	325.8	364.6	397.9	438.0	448.7	428.7	352.5	280.4
85°	209.7	227.0	241.7	267.1	260.4	248.4	166.9	148.2
87.5°	96.1	109.5	114.8	126.9	121.5	116.2	82.8	69.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)