

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: P269542

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269542
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: GLEON-AF-08-LED-E1-RW-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27914.3 lumens
Efficiency: N/A
Efficacy: 108.6 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): 257
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

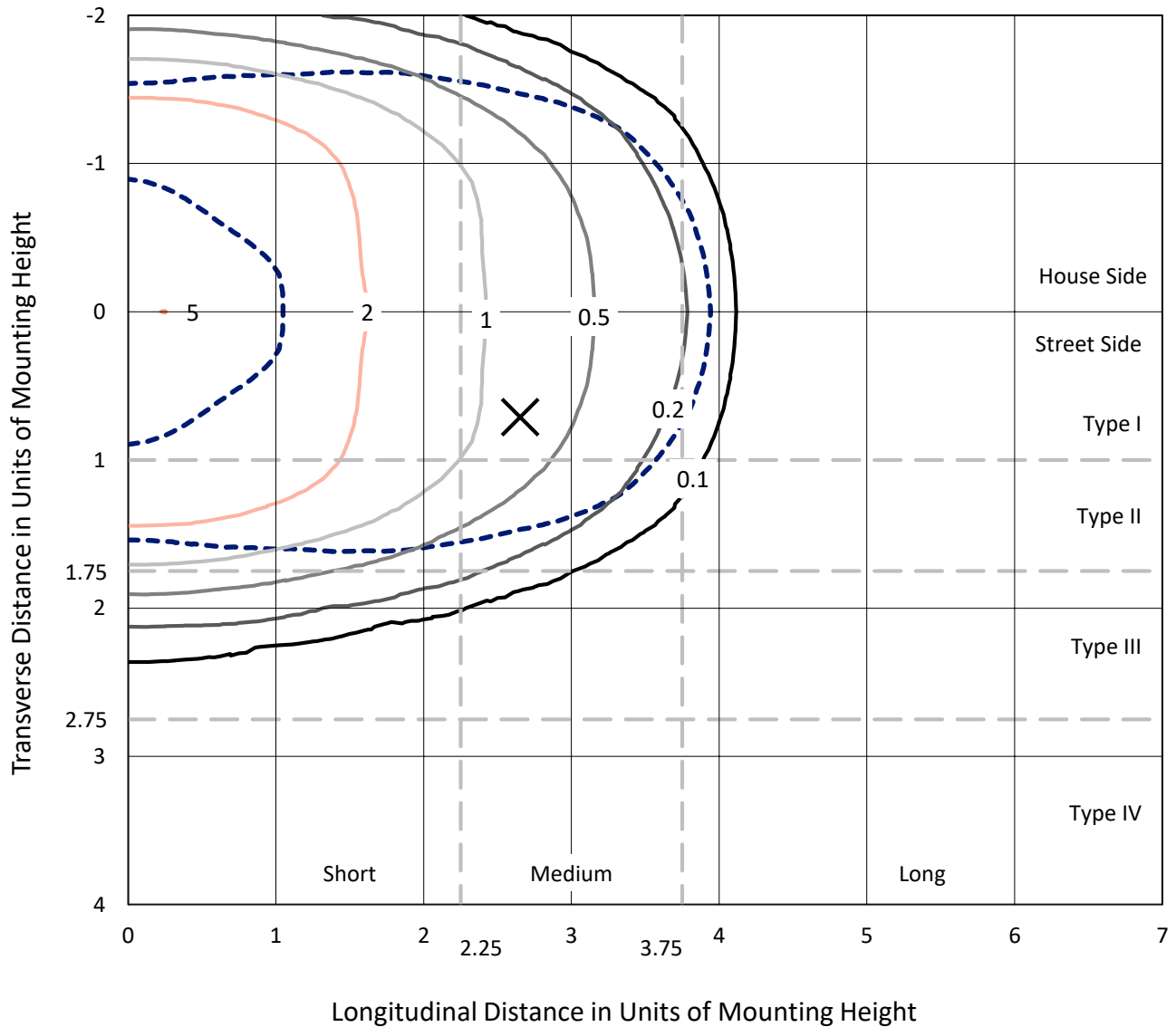


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Iso-Footcandle Lines of Horizontal Illumination

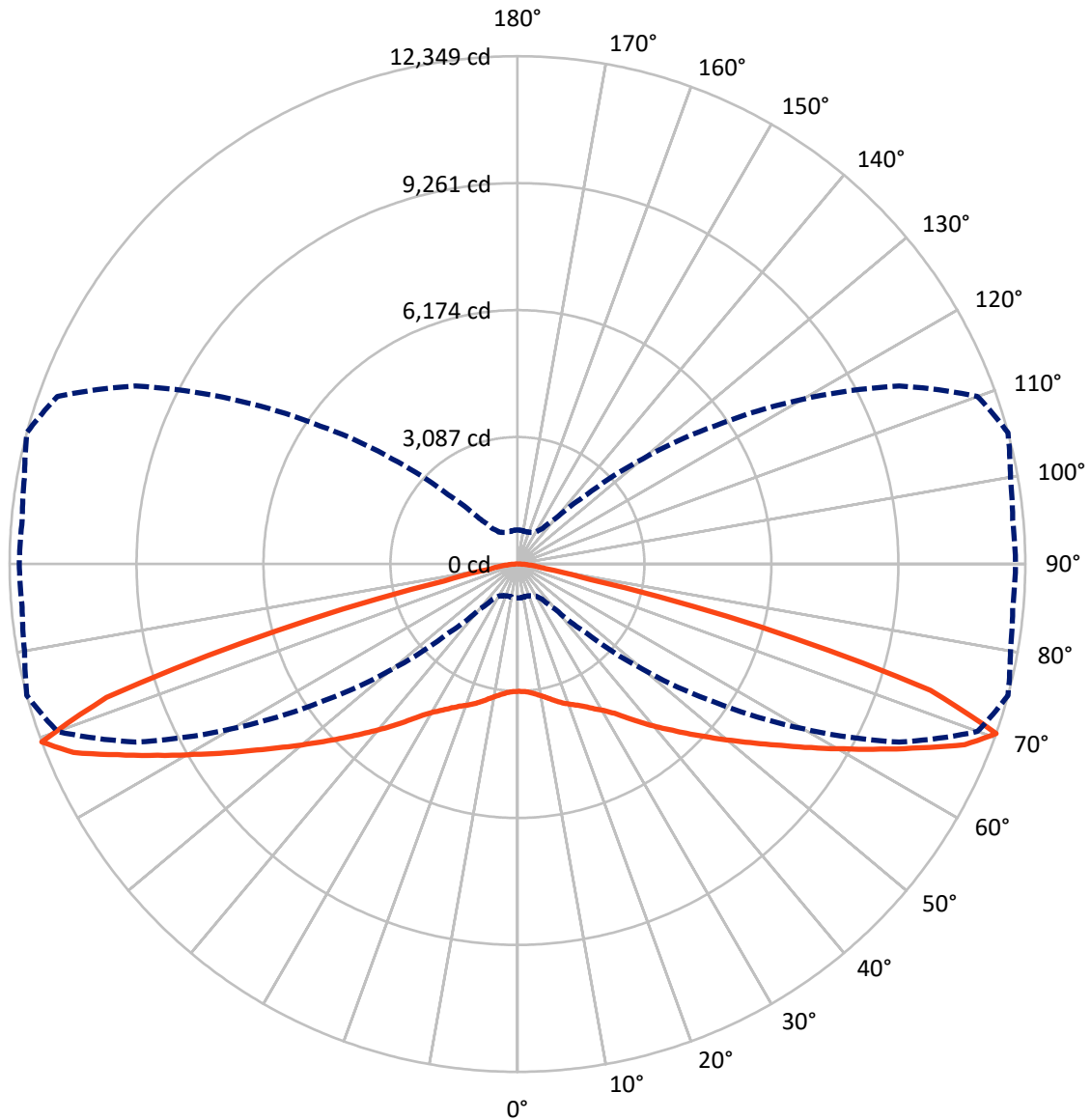
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	13957.2	0.0	13957.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13957.2	0.0	13957.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	27914.3	0.0	27914.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.1
10°-20°	922.7	3.3
20°-30°	1736.7	6.2
30°-40°	3075.3	11.0
40°-50°	5142.9	18.4
50°-60°	7166.7	25.7
60°-70°	6646.0	23.8
70°-80°	2648.6	9.5
80°-90°	278.4	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°	27914.3	100.0
0°-180°	27914.3	100.0



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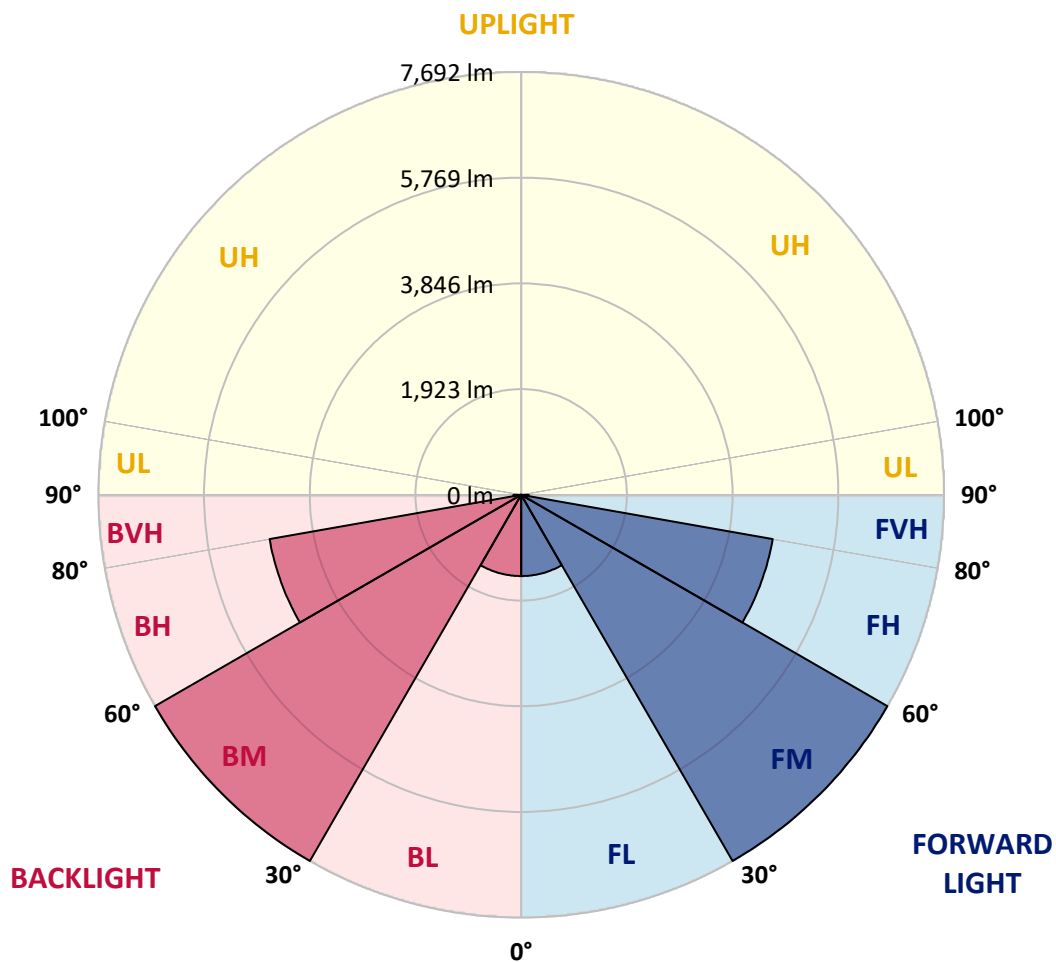
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1478.2	5.3			
FM	(30°-60°)	7692.5	27.6			
FH	(60°-80°)	4647.3	16.6			G2/5000
FVH	(80°-90°)	139.2	0.5			G2/225
BL	(0°-30°)	1478.2	5.3	B3/2500		
BM	(30°-60°)	7692.5	27.6	B4/8500		
BH	(60°-80°)	4647.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	139.2	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°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	3091.1	3088.5	3091.1	3089.7	3092.3	3092.3	3095.0	3100.3	3100.3	3104.3	3102.9
5°	3060.7	3059.4	3063.4	3067.4	3071.2	3079.2	3087.1	3099.1	3108.2	3114.9	3121.4
7.5°	3001.3	3001.3	3006.6	3015.9	3025.1	3042.3	3060.7	3084.5	3108.2	3128.0	3145.1
10°	2952.5	2955.2	2961.8	2977.6	2993.4	3019.8	3044.9	3079.2	3112.2	3145.1	3171.6
12.5°	2923.5	2927.4	2939.3	2963.1	2989.5	3025.1	3063.4	3106.9	3143.9	3183.5	3209.9
15°	2932.7	2935.4	2952.5	2981.6	3015.9	3060.7	3112.2	3163.7	3207.2	3249.3	3285.0
17.5°	2984.2	2988.1	3008.0	3040.9	3076.5	3129.3	3184.8	3242.8	3296.9	3344.4	3387.9
20°	3076.5	3080.5	3105.6	3141.3	3183.5	3237.5	3292.9	3353.6	3414.3	3464.5	3513.2
22.5°	3207.2	3213.7	3237.5	3273.2	3320.7	3378.6	3444.6	3509.3	3567.3	3613.5	3657.0
25°	3378.6	3393.2	3415.6	3455.2	3505.4	3558.0	3629.3	3695.3	3750.8	3794.3	3825.9
27.5°	3621.3	3641.2	3658.3	3696.6	3745.5	3795.6	3866.8	3924.9	3977.6	4019.8	4043.6
30°	3943.3	3963.1	3980.3	4017.2	4062.0	4109.6	4176.8	4228.3	4261.3	4294.3	4292.9
32.5°	4333.9	4355.0	4361.5	4401.2	4447.2	4498.7	4559.4	4588.5	4614.9	4618.7	4595.0
35°	4770.4	4781.0	4807.5	4860.2	4913.0	4955.2	5013.4	5027.8	5027.8	5008.1	4955.2
37.5°	5249.4	5256.1	5293.0	5352.3	5406.4	5449.9	5489.5	5518.6	5504.1	5461.9	5373.4
40°	5774.5	5786.3	5839.2	5892.0	5952.6	5993.5	6035.7	6041.0	6026.5	5964.4	5844.5
42.5°	6275.7	6286.3	6339.1	6422.3	6501.5	6558.2	6597.7	6605.6	6559.5	6502.7	6353.6
45°	6707.3	6735.0	6803.6	6901.1	7015.9	7096.4	7150.5	7173.0	7132.1	7058.2	6885.2
47.5°	7048.9	7076.6	7174.3	7290.4	7432.8	7563.4	7653.1	7700.6	7690.1	7634.6	7446.1
50°	7299.5	7325.9	7431.5	7574.0	7740.2	7902.5	8055.6	8168.9	8208.5	8183.5	8010.6
52.5°	7328.6	7372.1	7496.1	7687.4	7903.7	8125.4	8343.1	8535.8	8666.4	8686.2	8558.2
55°	6923.5	6967.2	7138.7	7422.2	7744.2	8105.6	8453.9	8778.4	9035.7	9167.7	9100.4
57.5°	5968.3	6046.2	6227.1	6559.5	7033.1	7574.0	8129.4	8706.0	9229.6	9579.3	9646.5
60°	4573.9	4666.2	4848.3	5201.9	5729.6	6374.7	7116.3	7968.4	8893.3	9679.5	10149.2
62.5°	2934.0	3021.2	3212.5	3519.7	3949.8	4649.2	5444.6	6456.6	7699.4	8940.7	10059.5
65°	1508.0	1555.4	1655.7	1841.7	2176.9	2699.2	3413.0	4422.3	5843.0	7374.7	8992.3
67.5°	955.2	964.4	986.8	1013.2	1098.9	1279.6	1612.2	2241.5	3410.3	5008.1	6901.1
70°	825.9	825.9	815.3	811.3	821.9	847.0	898.5	1044.9	1439.4	2377.4	3980.3
72.5°	756.0	748.0	729.6	715.1	712.4	712.4	723.0	745.5	808.7	968.4	1558.1
75°	696.5	674.2	649.0	632.0	625.3	618.8	617.5	621.4	634.6	659.6	744.1
77.5°	624.1	594.9	565.9	548.9	540.9	531.6	523.7	514.5	507.9	515.8	552.7
80°	536.9	503.9	481.5	471.0	463.0	450.0	432.8	417.0	402.4	399.7	422.2
82.5°	432.8	394.4	395.9	399.7	385.3	366.8	348.4	331.1	306.1	292.8	306.1
85°	349.6	329.8	320.5	345.7	324.6	296.8	267.9	237.5	197.8	166.2	180.7
87.5°	135.9	135.9	203.1	312.7	281.0	229.5	196.5	167.5	104.3	80.5	81.7
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°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	3101.6	3104.3	3102.9	3101.6	3101.6	3100.3	3101.6	3101.6
5°	3125.4	3132.0	3132.0	3134.6	3134.6	3136.0	3137.2	3136.0
7.5°	3161.0	3172.9	3180.8	3190.1	3191.3	3192.7	3195.4	3192.7
10°	3196.6	3220.3	3237.5	3254.6	3262.6	3265.2	3267.9	3267.9
12.5°	3241.4	3274.4	3304.8	3335.1	3349.7	3357.5	3357.5	3362.9
15°	3315.4	3348.3	3383.9	3424.9	3449.9	3463.1	3467.1	3467.1
17.5°	3419.6	3448.7	3479.0	3518.5	3550.2	3567.3	3571.3	3570.0
20°	3540.9	3568.6	3585.9	3610.8	3638.6	3658.3	3663.6	3663.6
22.5°	3679.5	3695.3	3698.0	3705.9	3728.2	3754.6	3766.6	3769.2
25°	3832.4	3836.4	3825.9	3825.9	3840.4	3865.4	3877.4	3878.7
27.5°	4030.3	4010.7	3984.3	3975.0	3984.3	4013.3	4027.8	4033.0
30°	4277.1	4229.6	4168.9	4135.9	4130.6	4168.9	4195.4	4199.2
32.5°	4559.4	4490.8	4410.4	4343.0	4325.9	4349.7	4381.4	4380.0
35°	4894.5	4812.7	4715.2	4629.3	4589.8	4613.5	4658.4	4663.6
37.5°	5281.0	5174.1	5062.0	4954.0	4891.9	4898.5	4946.0	4961.8
40°	5712.5	5574.0	5432.8	5287.7	5199.3	5182.1	5240.2	5249.4
42.5°	6174.2	5996.1	5818.1	5638.7	5525.1	5498.7	5566.1	5562.0
45°	6666.3	6439.4	6231.0	6033.0	5898.5	5858.9	5914.4	5914.4
47.5°	7195.3	6915.6	6667.6	6443.4	6296.8	6240.2	6292.9	6296.8
50°	7756.1	7459.2	7167.7	6918.2	6742.9	6670.3	6738.8	6749.4
52.5°	8314.2	8025.2	7731.0	7446.1	7233.6	7145.2	7224.3	7258.7
55°	8880.0	8596.4	8315.4	8037.0	7785.2	7680.9	7765.3	7808.7
57.5°	9477.7	9215.2	8947.4	8666.4	8423.5	8261.4	8351.1	8409.0
60°	10178.2	9953.9	9675.6	9365.5	9120.2	8955.3	9006.8	9058.1
62.5°	10732.3	10819.4	10583.2	10224.4	9909.2	9698.0	9748.1	9802.2
65°	10464.5	11357.7	11567.5	11204.6	10768.0	10439.5	10418.4	10446.0
67.5°	8746.8	10481.7	11746.9	12092.5	11727.1	11270.7	11186.1	11227.0
70°	5851.0	8012.1	10244.2	11906.5	12348.5	12171.7	12088.5	12113.6
72.5°	2810.1	4666.2	6949.9	9159.7	10505.4	11122.9	11320.7	11417.1
75°	1027.8	1852.2	3349.7	5047.5	6093.7	7054.2	7680.9	7936.7
77.5°	620.1	748.0	1069.9	1610.8	1824.5	2042.2	1957.8	2000.0
80°	459.2	518.5	587.1	659.6	683.4	683.4	657.0	635.9
82.5°	322.0	360.2	393.2	432.8	443.3	423.6	348.4	277.0
85°	207.1	224.2	238.8	263.8	257.3	245.3	164.8	146.5
87.5°	95.0	108.2	113.5	125.4	120.1	114.8	81.7	68.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)