

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: P191813

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191813
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-05-LED-E1-RW-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30411 lumens
Efficiency: N/A
Efficacy: 109.0 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

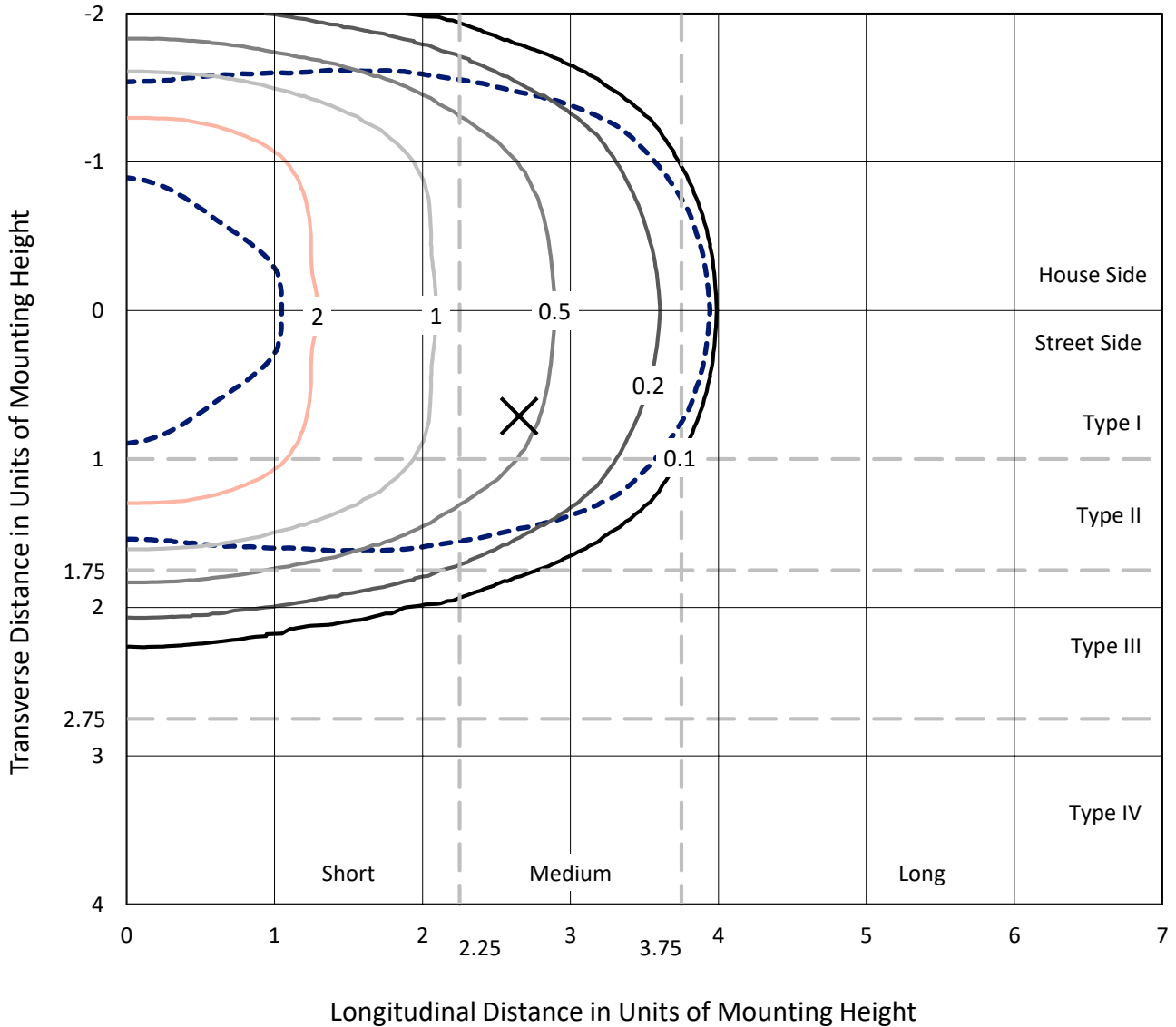
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

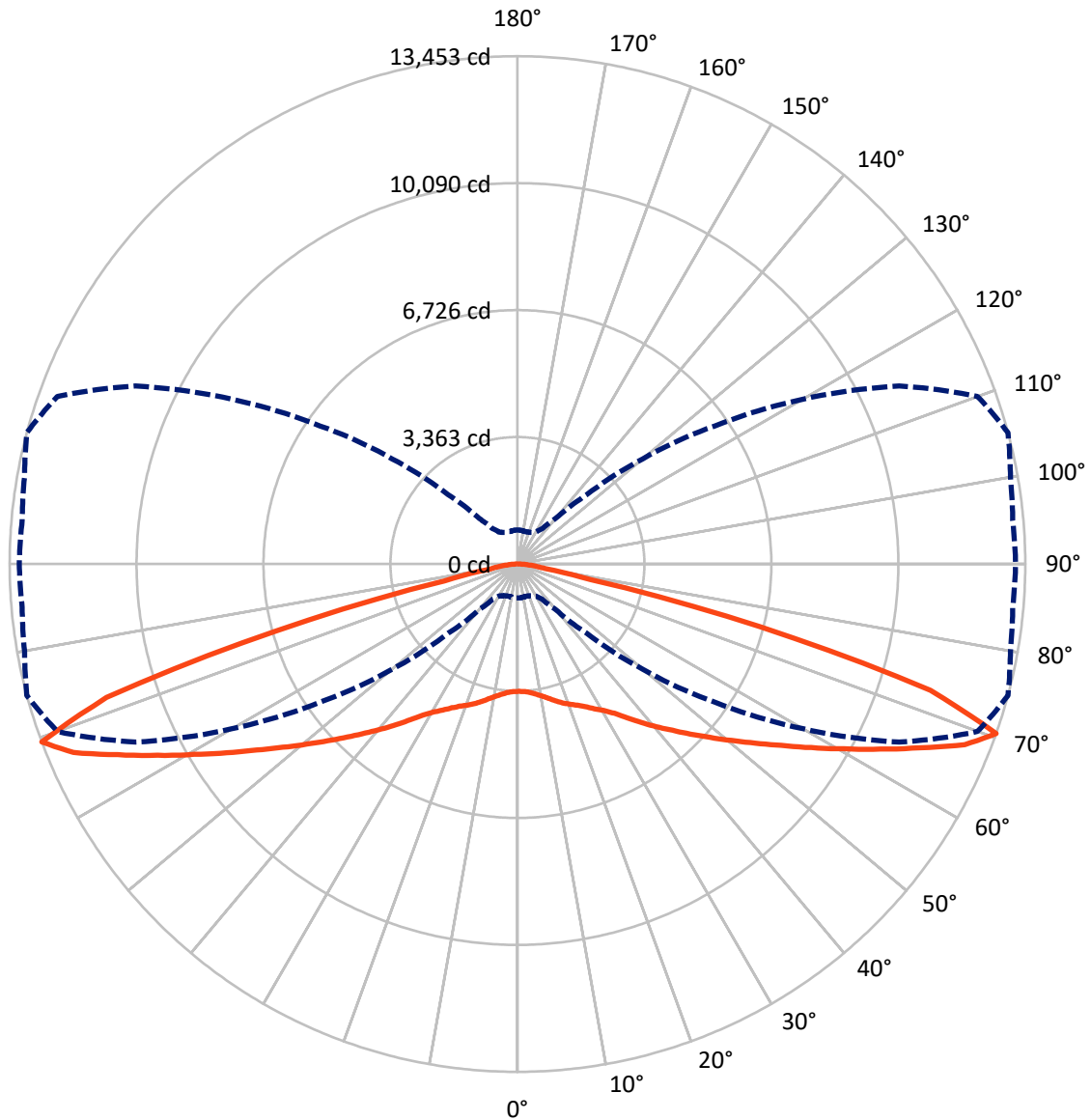
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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	15205.5	0.0	15205.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15205.5	0.0	15205.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30411.0	0.0	30411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.5	1.1
10°-20°	1005.2	3.3
20°-30°	1892.0	6.2
30°-40°	3350.4	11.0
40°-50°	5602.9	18.4
50°-60°	7807.7	25.7
60°-70°	7240.4	23.8
70°-80°	2885.5	9.5
80°-90°	303.3	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°	30411.0	100.0
0°-180°	30411.0	100.0

Coefficient of Utilization



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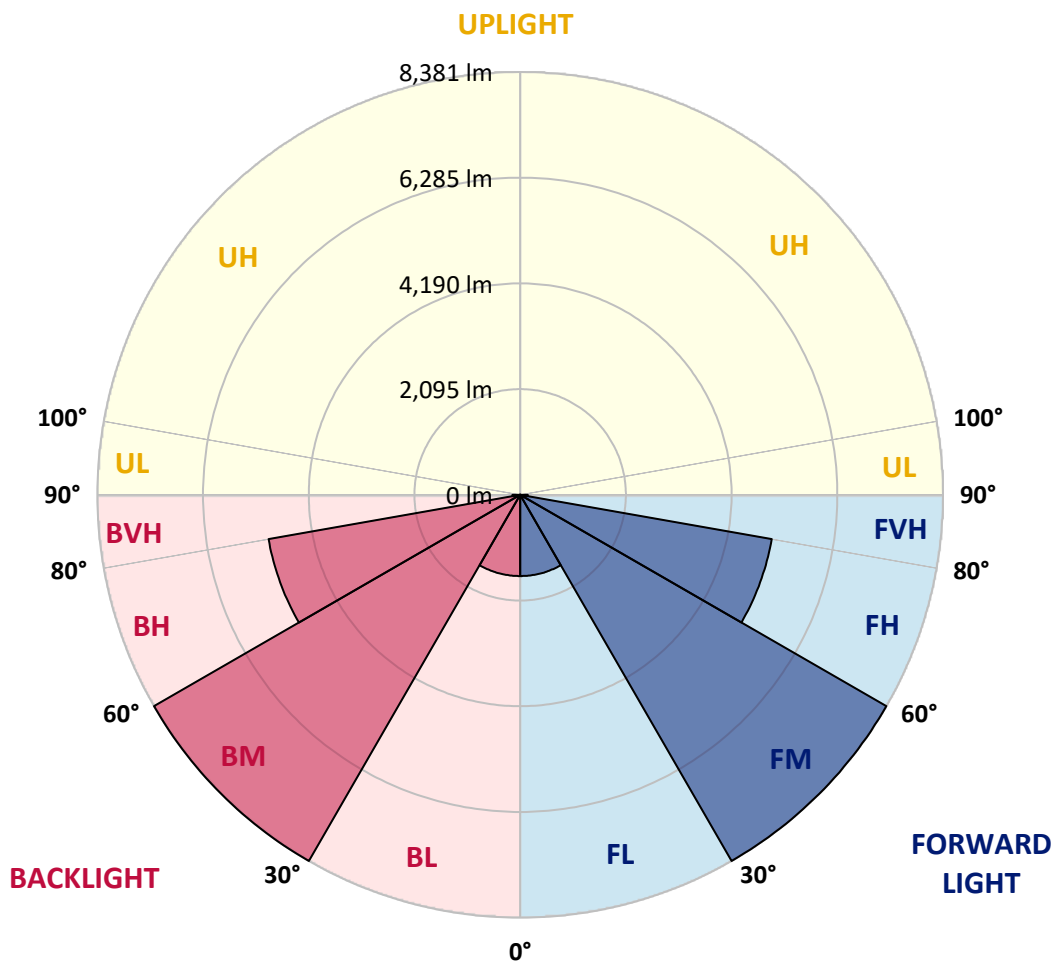
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1610.4	5.3			
FM	(30°-60°)	8380.5	27.6			
FH	(60°-80°)	5062.9	16.6			G3/7500
FVH	(80°-90°)	151.7	0.5			G2/225
BL	(0°-30°)	1610.4	5.3	B3/2500		
BM	(30°-60°)	8380.5	27.6	B4/8500		
BH	(60°-80°)	5062.9	16.6	B5		G5
BVH	(80°-90°)	151.7	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°	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3
2.5°	3367.5	3364.7	3367.5	3366.1	3369.0	3369.0	3371.9	3377.6	3377.6	3381.9	3380.5
5°	3334.5	3333.0	3337.4	3341.7	3346.0	3354.6	3363.2	3376.2	3386.2	3393.4	3400.6
7.5°	3269.8	3269.8	3275.6	3285.6	3295.7	3314.4	3334.5	3360.4	3386.2	3407.8	3426.5
10°	3216.6	3219.5	3226.7	3243.9	3261.2	3289.9	3317.2	3354.6	3390.5	3426.5	3455.2
12.5°	3185.0	3189.3	3202.3	3228.1	3256.9	3295.7	3337.4	3384.8	3425.0	3468.1	3496.9
15°	3195.1	3197.9	3216.6	3248.2	3285.6	3334.5	3390.5	3446.6	3494.0	3540.0	3578.8
17.5°	3251.1	3255.4	3277.0	3312.9	3351.7	3409.2	3469.6	3532.8	3591.8	3643.5	3690.9
20°	3351.7	3356.0	3383.3	3422.2	3468.1	3527.1	3587.4	3653.6	3719.7	3774.3	3827.5
22.5°	3494.0	3501.2	3527.1	3565.9	3617.6	3680.9	3752.7	3823.2	3886.4	3936.7	3984.1
25°	3680.9	3696.7	3721.1	3764.2	3818.8	3876.3	3953.9	4025.8	4086.2	4133.6	4168.1
27.5°	3945.3	3966.9	3985.6	4027.2	4080.4	4135.0	4212.7	4275.9	4333.4	4379.4	4405.3
30°	4296.0	4317.6	4336.3	4376.5	4425.4	4477.1	4550.4	4606.5	4642.4	4678.3	4676.9
32.5°	4721.5	4744.5	4751.6	4794.8	4845.1	4901.1	4967.2	4998.8	5027.6	5031.9	5006.0
35°	5197.2	5208.7	5237.4	5294.9	5352.4	5398.4	5461.7	5477.5	5477.5	5455.9	5398.4
37.5°	5718.9	5726.1	5766.4	5831.0	5890.0	5937.4	5980.5	6012.1	5996.3	5950.3	5854.0
40°	6291.0	6303.9	6361.4	6418.9	6485.0	6529.5	6575.5	6581.3	6565.5	6497.9	6367.1
42.5°	6837.1	6848.6	6906.1	6996.7	7082.9	7144.7	7187.8	7196.4	7146.1	7084.3	6921.9
45°	7307.1	7337.3	7412.0	7518.4	7643.4	7731.1	7790.0	7814.5	7769.9	7689.4	7501.1
47.5°	7679.4	7709.6	7815.9	7942.4	8097.6	8239.9	8337.6	8389.4	8377.9	8317.5	8112.0
50°	7952.5	7981.2	8096.2	8251.4	8432.5	8609.3	8776.0	8899.6	8942.7	8915.4	8727.1
52.5°	7984.1	8031.5	8166.6	8375.0	8610.7	8852.2	9089.3	9299.2	9441.5	9463.0	9323.6
55°	7542.8	7590.3	7777.1	8086.1	8436.8	8830.6	9210.1	9563.6	9843.9	9987.6	9914.3
57.5°	6502.2	6587.0	6783.9	7146.1	7662.1	8251.4	8856.5	9484.6	10055.2	10436.1	10509.4
60°	4983.0	5083.6	5282.0	5667.2	6242.1	6944.9	7752.7	8681.2	9688.7	10545.3	11057.0
62.5°	3196.5	3291.4	3499.8	3834.7	4303.2	5065.0	5931.6	7034.0	8387.9	9740.4	10959.2
65°	1642.8	1694.5	1803.8	2006.4	2371.5	2940.7	3718.2	4817.8	6365.7	8034.4	9796.5
67.5°	1040.6	1050.6	1075.1	1103.8	1197.3	1394.2	1756.4	2441.9	3715.4	5455.9	7518.4
70°	899.7	899.7	888.2	883.9	895.4	922.7	978.8	1138.3	1568.1	2590.0	4336.3
72.5°	823.6	814.9	794.8	779.0	776.1	776.1	787.6	812.1	881.1	1055.0	1697.4
75°	758.9	734.4	707.1	688.5	681.3	674.1	672.6	677.0	691.3	718.6	810.6
77.5°	679.8	648.2	616.6	597.9	589.3	579.2	570.6	560.5	553.4	562.0	602.2
80°	585.0	549.0	524.6	513.1	504.5	490.1	471.4	454.2	438.4	435.5	459.9
82.5°	471.4	429.7	431.2	435.5	419.7	399.6	379.4	360.8	333.4	319.1	333.4
85°	380.9	359.3	349.3	376.6	353.6	323.4	291.8	258.7	215.6	181.1	196.9
87.5°	148.0	148.0	221.3	340.6	306.1	250.1	214.2	182.5	113.5	87.7	89.1
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°	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3
2.5°	3379.0	3381.9	3380.5	3379.0	3379.0	3377.6	3379.0	3379.0
5°	3404.9	3412.1	3412.1	3415.0	3415.0	3416.4	3417.8	3416.4
7.5°	3443.7	3456.7	3465.3	3475.3	3476.8	3478.2	3481.1	3478.2
10°	3482.5	3508.4	3527.1	3545.8	3554.4	3557.3	3560.1	3560.1
12.5°	3531.4	3567.3	3600.4	3633.4	3649.2	3657.9	3657.9	3663.6
15°	3611.9	3647.8	3686.6	3731.2	3758.5	3772.9	3777.2	3777.2
17.5°	3725.4	3757.0	3790.1	3833.2	3867.7	3886.4	3890.7	3889.3
20°	3857.7	3887.8	3906.5	3933.8	3964.0	3985.6	3991.3	3991.3
22.5°	4008.6	4025.8	4028.7	4037.3	4061.7	4090.5	4103.4	4106.3
25°	4175.3	4179.6	4168.1	4168.1	4183.9	4211.2	4224.2	4225.6
27.5°	4390.9	4369.3	4340.6	4330.5	4340.6	4372.2	4388.0	4393.8
30°	4659.7	4607.9	4541.8	4505.9	4500.1	4541.8	4570.5	4574.9
32.5°	4967.2	4892.5	4804.8	4731.5	4712.8	4738.7	4773.2	4771.8
35°	5332.3	5243.2	5136.8	5043.4	5000.3	5026.2	5075.0	5080.8
37.5°	5753.4	5637.0	5514.8	5397.0	5329.4	5336.6	5388.4	5405.6
40°	6223.4	6072.5	5918.7	5760.6	5664.3	5645.6	5708.9	5718.9
42.5°	6726.5	6532.4	6338.4	6142.9	6019.3	5990.6	6063.9	6059.6
45°	7262.6	7015.3	6788.3	6572.7	6426.1	6382.9	6443.3	6443.3
47.5°	7838.9	7534.2	7264.0	7019.7	6860.1	6798.3	6855.8	6860.1
50°	8449.8	8126.4	7808.7	7537.1	7345.9	7266.9	7341.6	7353.1
52.5°	9057.7	8743.0	8422.4	8112.0	7880.6	7784.3	7870.5	7907.9
55°	9674.3	9365.3	9059.2	8755.9	8481.4	8367.8	8459.8	8507.2
57.5°	10325.4	10039.4	9747.6	9441.5	9177.0	9000.2	9098.0	9161.2
60°	11088.6	10844.3	10541.0	10203.2	9935.9	9756.2	9812.3	9868.3
62.5°	11692.2	11787.1	11529.8	11138.9	10795.4	10565.4	10620.0	10679.0
65°	11400.5	12373.5	12602.0	12206.8	11731.1	11373.2	11350.2	11380.4
67.5°	9529.1	11419.2	12797.5	13174.1	12776.0	12278.7	12186.7	12231.2
70°	6374.3	8728.6	11160.5	12971.4	13452.9	13260.3	13169.8	13197.1
72.5°	3061.4	5083.6	7571.6	9979.0	11445.0	12117.7	12333.3	12438.2
75°	1119.6	2017.9	3649.2	5499.0	6638.8	7685.1	8367.8	8646.7
77.5°	675.5	814.9	1165.6	1754.9	1987.8	2224.9	2132.9	2178.9
80°	500.2	564.8	639.6	718.6	744.5	744.5	715.8	692.8
82.5°	350.7	392.4	428.3	471.4	482.9	461.4	379.4	301.8
85°	225.7	244.3	260.1	287.5	280.3	267.3	179.7	159.5
87.5°	103.5	117.9	123.6	136.5	130.8	125.0	89.1	74.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)