

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: P191003

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191003
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25133.9 lumens
Efficiency: N/A
Efficacy: 119.7 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): 210
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

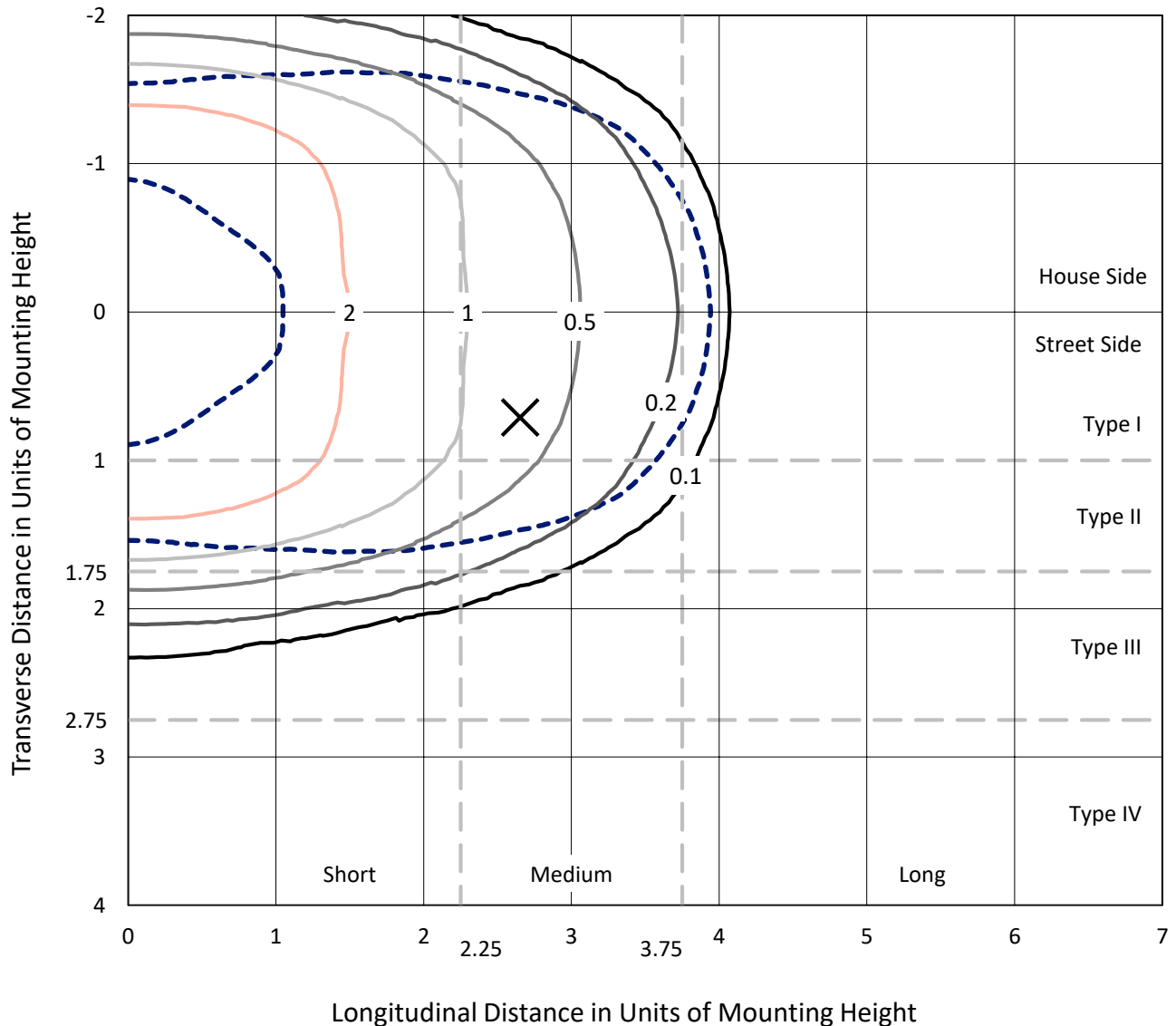


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

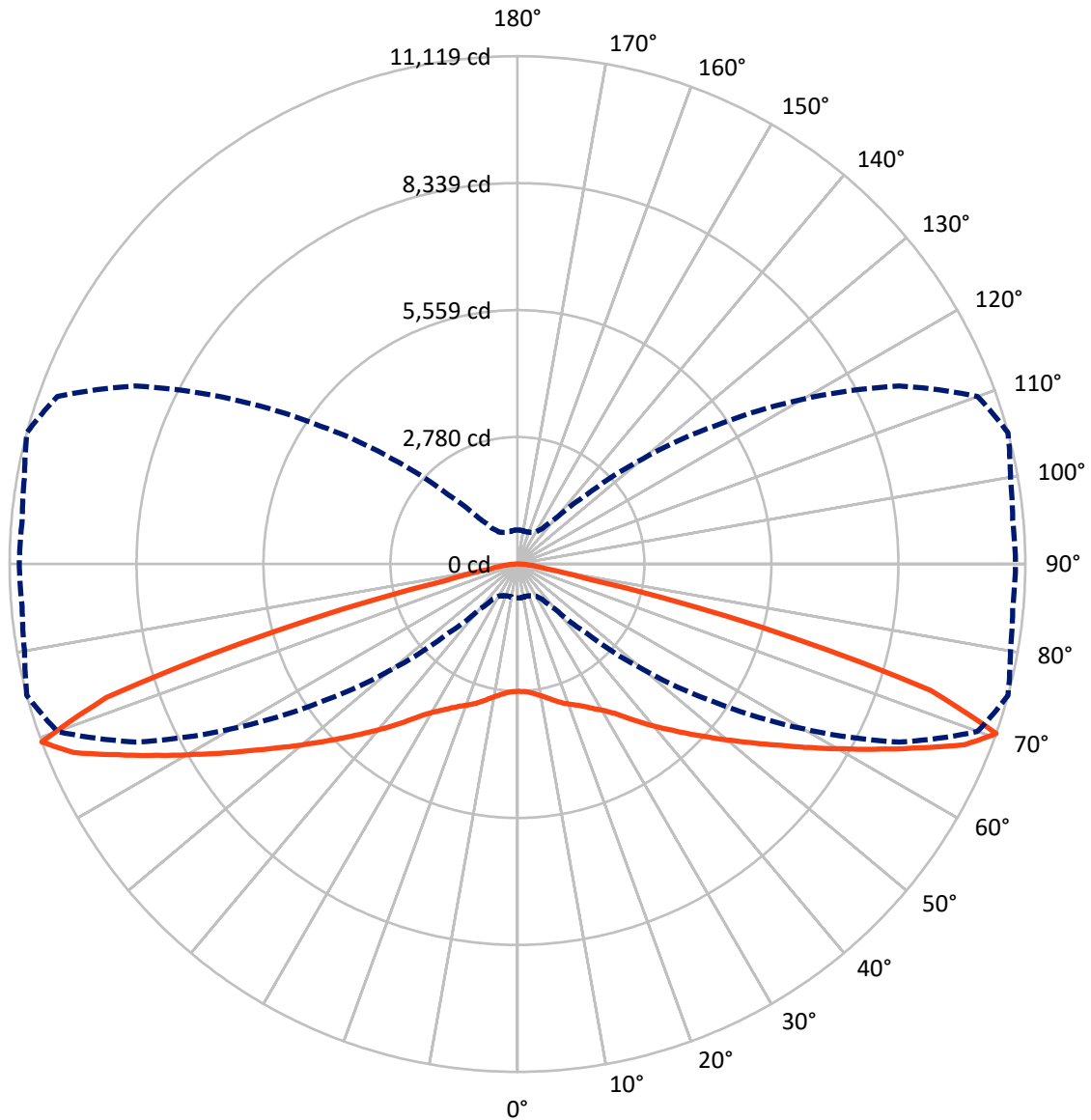


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - Full Cutoff

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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	12567.0	0.0	12567.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12567.0	0.0	12567.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25133.9	0.0	25133.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	1.1
10°-20°	830.8	3.3
20°-30°	1563.7	6.2
30°-40°	2769.0	11.0
40°-50°	4630.7	18.4
50°-60°	6452.9	25.7
60°-70°	5984.0	23.8
70°-80°	2384.8	9.5
80°-90°	250.7	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°	25133.9	100.0
0°-180°	25133.9	100.0



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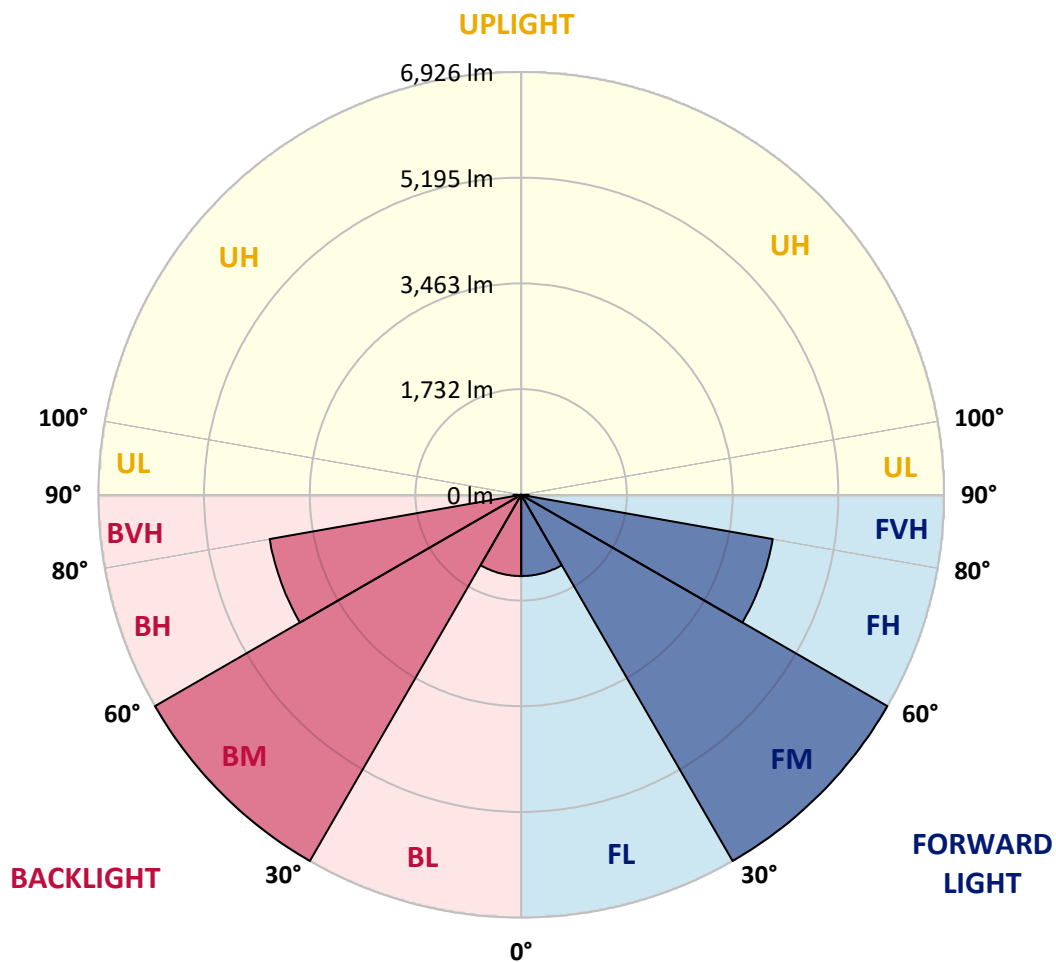
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1330.9	5.3			
FM	(30°-60°)	6926.3	27.6			
FH	(60°-80°)	4184.4	16.6			G2/5000
FVH	(80°-90°)	125.3	0.5			G2/225
BL	(0°-30°)	1330.9	5.3	B3/2500		
BM	(30°-60°)	6926.3	27.6	B4/8500		
BH	(60°-80°)	4184.4	16.6	B4/5000		G4/5000
BVH	(80°-90°)	125.3	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°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0
2.5°	2783.1	2780.8	2783.1	2782.0	2784.4	2784.4	2786.7	2791.5	2791.5	2795.1	2793.9
5°	2755.8	2754.7	2758.3	2761.8	2765.3	2772.5	2779.7	2790.3	2798.6	2804.5	2810.5
7.5°	2702.4	2702.4	2707.1	2715.5	2723.8	2739.3	2755.8	2777.2	2798.6	2816.5	2831.9
10°	2658.4	2660.8	2666.7	2681.1	2695.3	2719.0	2741.6	2772.5	2802.2	2831.9	2855.7
12.5°	2632.4	2635.8	2646.6	2668.0	2691.7	2723.8	2758.3	2797.5	2830.7	2866.3	2890.1
15°	2640.6	2643.0	2658.4	2684.6	2715.5	2755.8	2802.2	2848.5	2887.7	2925.7	2957.8
17.5°	2687.0	2690.6	2708.4	2738.0	2770.2	2817.6	2867.5	2919.8	2968.5	3011.3	3050.4
20°	2770.2	2773.7	2796.2	2828.4	2866.3	2915.0	2964.9	3019.5	3074.2	3119.4	3163.3
22.5°	2887.7	2893.6	2915.0	2947.1	2989.9	3042.2	3101.5	3159.7	3212.0	3253.6	3292.8
25°	3042.2	3055.2	3075.4	3111.0	3156.2	3203.7	3267.8	3327.2	3377.2	3416.3	3444.8
27.5°	3260.8	3278.6	3294.0	3328.4	3372.4	3417.5	3481.6	3533.9	3581.5	3619.4	3640.8
30°	3550.6	3568.4	3583.8	3617.1	3657.5	3700.2	3760.8	3807.1	3836.8	3866.5	3865.3
32.5°	3902.1	3921.2	3927.1	3962.7	4004.3	4050.7	4105.3	4131.4	4155.2	4158.7	4137.3
35°	4295.4	4304.9	4328.6	4376.1	4423.6	4461.6	4513.9	4527.0	4527.0	4509.2	4461.6
37.5°	4726.5	4732.5	4765.7	4819.2	4867.9	4907.1	4942.7	4968.9	4955.8	4917.8	4838.3
40°	5199.4	5210.0	5257.6	5305.0	5359.6	5396.5	5434.5	5439.2	5426.2	5370.4	5262.3
42.5°	5650.7	5660.2	5707.8	5782.5	5853.8	5904.9	5940.6	5947.6	5906.1	5855.1	5720.8
45°	6039.1	6064.1	6125.8	6213.7	6317.1	6389.6	6438.2	6458.5	6421.7	6355.1	6199.5
47.5°	6346.8	6371.8	6459.6	6564.2	6692.5	6810.1	6890.8	6933.6	6924.1	6874.2	6704.3
50°	6572.5	6596.3	6691.3	6819.6	6969.3	7115.3	7253.1	7355.3	7390.9	7368.4	7212.7
52.5°	6598.6	6637.8	6749.5	6921.7	7116.6	7316.1	7512.1	7685.5	7803.2	7821.0	7705.7
55°	6234.0	6273.1	6427.6	6682.9	6972.8	7298.2	7611.9	7904.1	8135.7	8254.5	8193.9
57.5°	5374.0	5444.0	5606.8	5906.1	6332.6	6819.6	7319.6	7838.8	8310.4	8625.1	8685.7
60°	4118.4	4201.5	4365.4	4683.8	5158.9	5739.8	6407.4	7174.8	8007.5	8715.4	9138.3
62.5°	2641.9	2720.2	2892.5	3169.2	3556.5	4186.0	4902.4	5813.4	6932.4	8050.2	9057.5
65°	1357.8	1400.5	1490.7	1658.3	1960.0	2430.4	3073.0	3981.7	5261.0	6640.2	8096.6
67.5°	860.0	868.4	888.5	912.3	989.5	1152.3	1451.6	2018.2	3070.7	4509.2	6213.7
70°	743.6	743.6	734.1	730.6	740.0	762.6	808.9	940.8	1296.0	2140.5	3583.8
72.5°	680.7	673.5	656.9	643.8	641.5	641.5	650.9	671.2	728.1	871.9	1402.9
75°	627.2	607.0	584.4	569.0	563.0	557.1	556.0	559.5	571.3	593.9	669.9
77.5°	561.9	535.7	509.6	494.2	487.0	478.7	471.6	463.3	457.4	464.4	497.8
80°	483.4	453.8	433.5	424.1	417.0	405.1	389.6	375.3	362.3	359.9	380.1
82.5°	389.6	355.2	356.4	359.9	346.9	330.2	313.6	298.2	275.6	263.7	275.6
85°	314.8	297.0	288.7	311.2	292.3	267.3	241.1	213.8	178.2	149.7	162.8
87.5°	122.3	122.3	182.9	281.5	253.0	206.7	177.0	150.9	93.8	72.4	73.7
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°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0
2.5°	2792.7	2795.1	2793.9	2792.7	2792.7	2791.5	2792.7	2792.7
5°	2814.0	2820.0	2820.0	2822.4	2822.4	2823.5	2824.8	2823.5
7.5°	2846.2	2856.8	2864.0	2872.2	2873.5	2874.7	2877.0	2874.7
10°	2878.2	2899.6	2915.0	2930.4	2937.6	2940.0	2942.3	2942.3
12.5°	2918.6	2948.3	2975.7	3003.0	3016.0	3023.1	3023.1	3027.9
15°	2985.1	3014.8	3046.9	3083.7	3106.3	3118.2	3121.7	3121.7
17.5°	3079.0	3105.1	3132.4	3168.1	3196.5	3212.0	3215.5	3214.4
20°	3188.2	3213.2	3228.6	3251.2	3276.1	3294.0	3298.7	3298.7
22.5°	3312.9	3327.2	3329.6	3336.8	3356.9	3380.6	3391.4	3393.7
25°	3450.7	3454.3	3444.8	3444.8	3457.9	3480.5	3491.1	3492.4
27.5°	3628.9	3611.1	3587.4	3579.1	3587.4	3613.5	3626.6	3631.4
30°	3851.1	3808.3	3753.7	3724.0	3719.2	3753.7	3777.5	3781.0
32.5°	4105.3	4043.5	3971.1	3910.4	3895.0	3916.4	3944.9	3943.8
35°	4407.0	4333.3	4245.5	4168.2	4132.6	4154.0	4194.4	4199.1
37.5°	4755.1	4658.8	4557.9	4460.5	4404.6	4410.6	4453.3	4467.6
40°	5143.5	5018.8	4891.6	4761.0	4681.4	4666.0	4718.3	4726.5
42.5°	5559.2	5398.8	5238.5	5077.0	4974.8	4951.1	5011.6	5008.1
45°	6002.3	5798.0	5610.3	5432.2	5311.0	5275.4	5325.3	5325.3
47.5°	6478.7	6226.8	6003.5	5801.6	5669.7	5618.7	5666.1	5669.7
50°	6983.5	6716.2	6453.7	6229.2	6071.2	6005.8	6067.6	6077.1
52.5°	7486.0	7225.8	6961.0	6704.3	6513.1	6433.5	6504.7	6535.6
55°	7995.6	7740.2	7487.2	7236.6	7009.7	6915.8	6991.8	7031.0
57.5°	8533.7	8297.3	8056.1	7803.2	7584.6	7438.5	7519.2	7571.5
60°	9164.4	8962.5	8711.9	8432.7	8211.7	8063.3	8109.6	8155.9
62.5°	9663.3	9741.8	9529.1	9206.0	8922.1	8732.0	8777.2	8825.9
65°	9422.2	10226.4	10415.3	10088.5	9695.4	9399.6	9380.7	9405.5
67.5°	7875.6	9437.6	10576.8	10888.1	10559.0	10148.0	10072.0	10108.8
70°	5268.2	7214.0	9223.8	10720.5	11118.5	10959.3	10884.5	10907.0
72.5°	2530.2	4201.5	6257.7	8247.4	9459.0	10015.0	10193.1	10279.8
75°	925.4	1667.8	3016.0	4544.8	5486.8	6351.5	6915.8	7146.2
77.5°	558.3	673.5	963.4	1450.4	1642.9	1838.9	1762.9	1800.8
80°	413.4	466.9	528.6	593.9	615.3	615.3	591.6	572.5
82.5°	289.8	324.3	353.9	389.6	399.2	381.4	313.6	249.5
85°	186.5	201.9	215.0	237.5	231.6	221.0	148.5	131.9
87.5°	85.5	97.4	102.2	112.8	108.1	103.3	73.7	61.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)