

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: P269462

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269462  
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-07-LED-E1-RW-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 24636.2 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

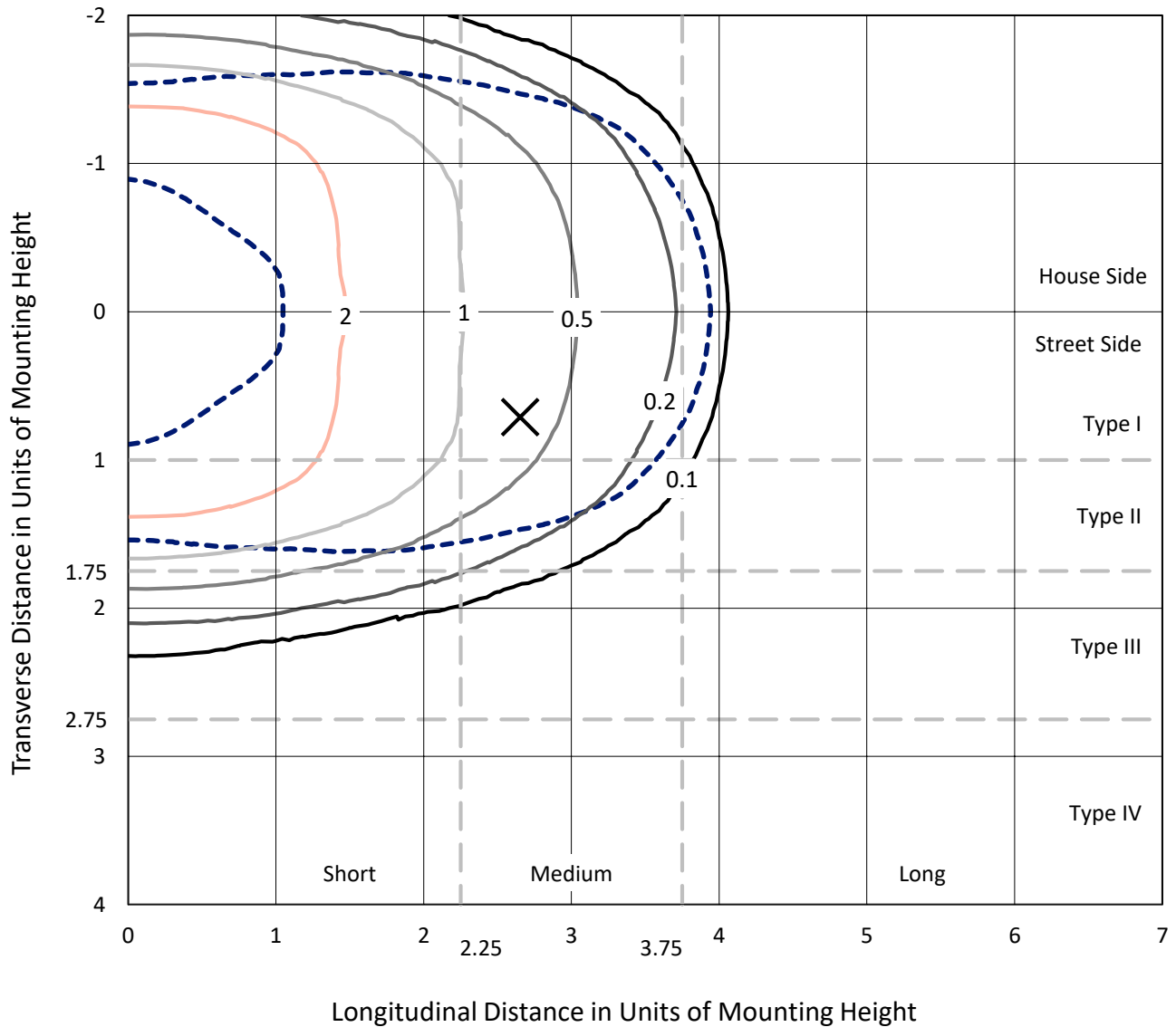
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P269462  
 CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

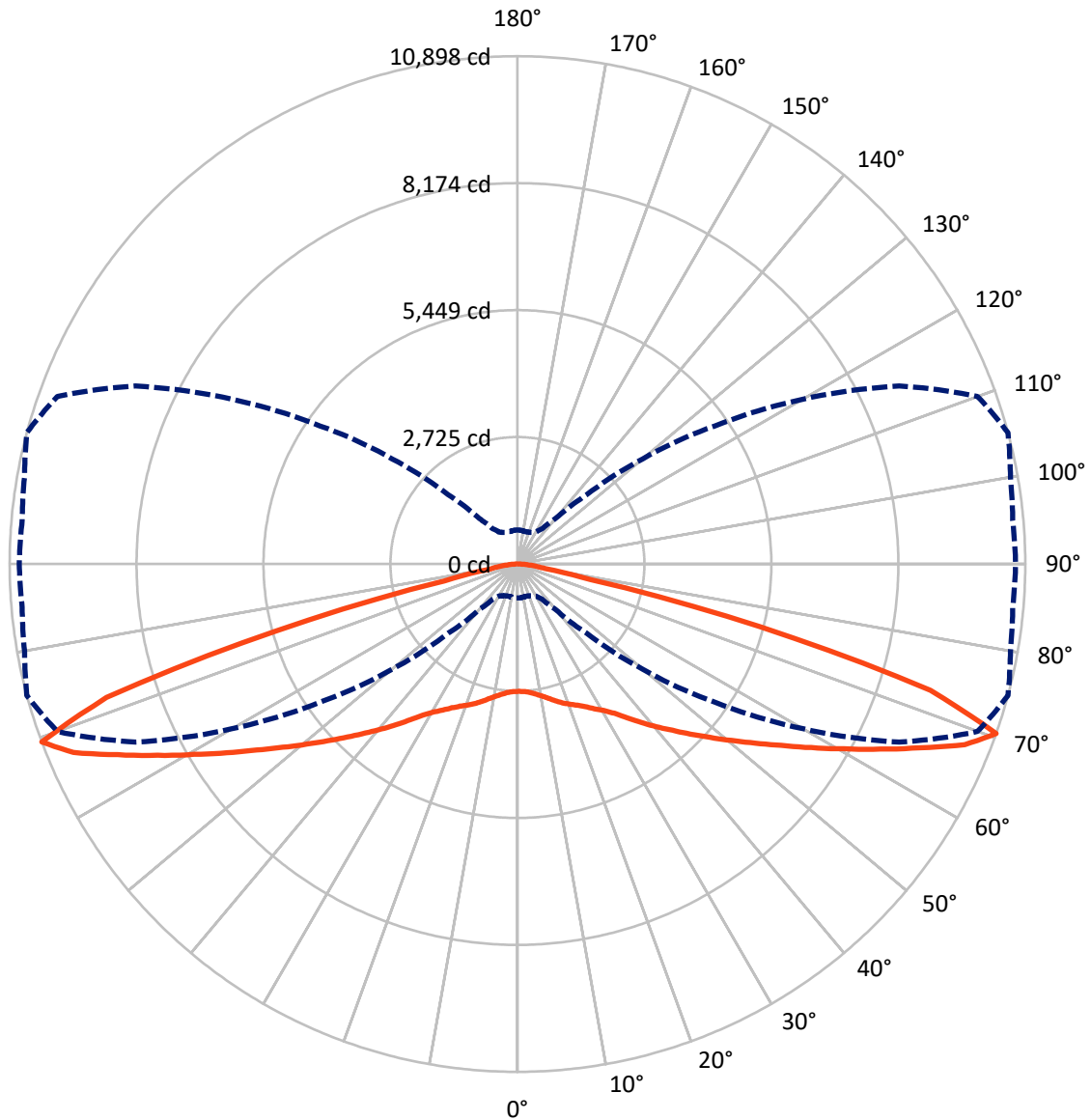


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269462

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7027-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P269462

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12318.1	0.0	12318.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12318.1	0.0	12318.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24636.2	0.0	24636.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.1	1.1
10°-20°	814.3	3.3
20°-30°	1532.7	6.2
30°-40°	2714.2	11.0
40°-50°	4539.0	18.4
50°-60°	6325.1	25.7
60°-70°	5865.5	23.8
70°-80°	2337.6	9.5
80°-90°	245.7	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°	24636.2	100.0
0°-180°	24636.2	100.0



REPORT NUMBER: P269462

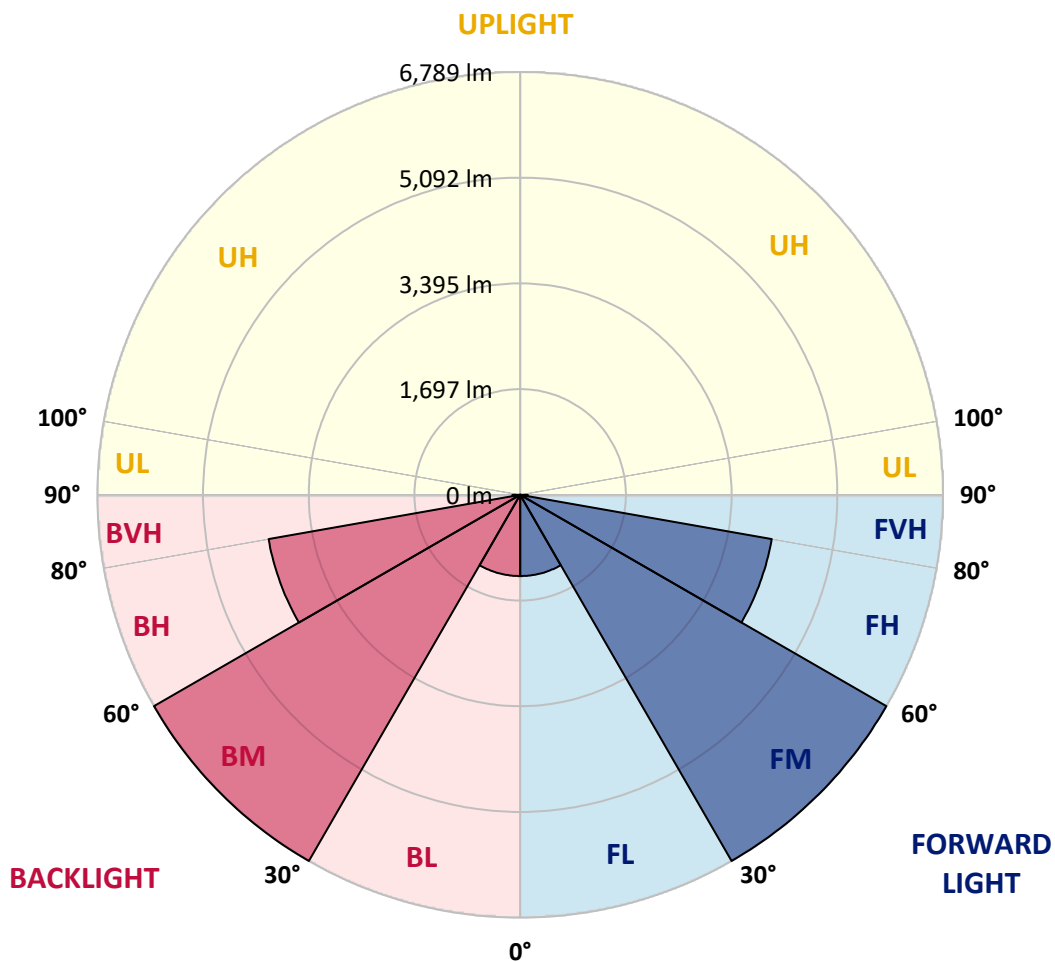
CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7027-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1304.6	5.3			
FM	(30°-60°)	6789.1	27.6			
FH	(60°-80°)	4101.5	16.6			G2/5000
FVH	(80°-90°)	122.9	0.5			G2/225
BL	(0°-30°)	1304.6	5.3	B3/2500		
BM	(30°-60°)	6789.1	27.6	B4/8500		
BH	(60°-80°)	4101.5	16.6	B4/5000		G4/5000
BVH	(80°-90°)	122.9	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





REPORT NUMBER: P269462

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7
2.5°	2728.1	2725.7	2728.1	2727.0	2729.2	2729.2	2731.6	2736.1	2736.1	2739.7	2738.6
5°	2701.4	2700.1	2703.5	2707.1	2710.5	2717.6	2724.6	2735.1	2743.2	2749.1	2754.8
7.5°	2648.9	2648.9	2653.6	2661.7	2669.9	2684.9	2701.4	2722.3	2743.2	2760.8	2775.9
10°	2605.9	2608.0	2614.0	2627.9	2641.9	2665.2	2687.3	2717.6	2746.7	2775.9	2799.1
12.5°	2580.2	2583.6	2594.1	2615.1	2638.4	2669.9	2703.5	2742.0	2774.7	2809.5	2832.8
15°	2588.3	2590.7	2605.9	2631.4	2661.7	2701.4	2746.7	2792.1	2830.5	2867.7	2899.2
17.5°	2633.7	2637.2	2654.8	2683.9	2715.2	2761.7	2810.7	2862.0	2909.7	2951.7	2990.1
20°	2715.2	2718.8	2740.9	2772.3	2809.5	2857.2	2906.1	2959.7	3013.4	3057.7	3100.7
22.5°	2830.5	2836.4	2857.2	2888.8	2930.7	2982.0	3040.1	3097.1	3148.4	3189.2	3227.6
25°	2982.0	2994.7	3014.5	3049.4	3093.7	3140.2	3203.1	3261.3	3310.3	3348.6	3376.5
27.5°	3196.1	3213.5	3228.8	3262.6	3305.7	3349.8	3412.8	3464.0	3510.4	3547.8	3568.7
30°	3480.3	3497.7	3512.8	3545.4	3585.0	3626.9	3686.4	3731.6	3760.8	3789.9	3788.8
32.5°	3825.0	3843.5	3849.3	3884.4	3925.1	3970.4	4024.0	4049.6	4072.8	4076.4	4055.4
35°	4210.3	4219.6	4242.9	4289.4	4335.9	4373.3	4424.5	4437.4	4437.4	4419.9	4373.3
37.5°	4633.0	4638.8	4671.4	4723.7	4771.4	4810.0	4844.9	4870.5	4857.7	4820.5	4742.4
40°	5096.4	5106.9	5153.3	5200.0	5253.6	5289.6	5326.9	5331.5	5318.8	5264.0	5158.1
42.5°	5538.8	5548.1	5594.7	5668.0	5738.0	5788.0	5823.0	5829.9	5789.1	5739.1	5607.5
45°	5919.6	5943.9	6004.5	6090.7	6191.9	6263.1	6310.8	6330.5	6294.5	6229.2	6076.8
47.5°	6221.1	6245.6	6331.8	6434.2	6560.0	6675.2	6754.4	6796.2	6787.0	6738.0	6571.6
50°	6442.4	6465.6	6558.7	6684.5	6831.3	6974.4	7109.5	7209.6	7244.7	7222.5	7069.9
52.5°	6467.9	6506.3	6615.8	6784.7	6975.6	7171.2	7363.3	7533.4	7648.6	7666.0	7553.0
55°	6110.5	6148.9	6300.4	6550.6	6834.8	7153.7	7461.1	7747.6	7974.7	8091.0	8031.7
57.5°	5267.5	5336.2	5495.7	5789.1	6207.2	6684.5	7174.8	7683.6	8145.8	8454.3	8513.6
60°	4036.9	4118.3	4278.9	4591.0	5056.7	5626.2	6280.5	7032.7	7848.9	8542.8	8957.3
62.5°	2589.5	2666.3	2835.2	3106.5	3486.1	4103.2	4805.3	5698.3	6795.0	7890.8	8878.2
65°	1330.8	1372.8	1461.3	1625.5	1921.1	2382.2	3012.1	3902.9	5156.9	6508.7	7936.2
67.5°	843.0	851.1	870.9	894.3	969.9	1129.3	1422.8	1978.2	3009.9	4419.9	6090.7
70°	728.9	728.9	719.5	716.0	725.4	747.5	792.9	922.2	1270.4	2098.1	3512.8
72.5°	667.3	660.2	643.8	631.1	628.8	628.8	638.1	657.9	713.8	854.6	1375.0
75°	614.8	594.9	572.8	557.7	551.9	546.1	544.9	548.4	560.1	582.2	656.8
77.5°	550.8	525.1	499.5	484.4	477.4	469.3	462.3	454.2	448.3	455.3	487.9
80°	473.9	444.8	425.0	415.6	408.6	397.1	381.9	367.9	355.1	352.9	372.5
82.5°	381.9	348.2	349.4	352.9	340.0	323.7	307.4	292.3	270.1	258.5	270.1
85°	308.6	291.1	283.0	305.1	286.4	261.9	236.3	209.6	174.6	146.8	159.4
87.5°	120.0	120.0	179.3	276.0	248.0	202.6	173.6	148.0	91.9	71.1	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269462

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-7027-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7	2732.7
2.5°	2737.3	2739.7	2738.6	2737.3	2737.3	2736.1	2737.3	2737.3
5°	2758.3	2764.2	2764.2	2766.5	2766.5	2767.7	2768.8	2767.7
7.5°	2789.7	2800.2	2807.3	2815.4	2816.5	2817.8	2820.0	2817.8
10°	2821.1	2842.1	2857.2	2872.4	2879.4	2881.8	2884.1	2884.1
12.5°	2860.8	2889.8	2916.6	2943.4	2956.3	2963.2	2963.2	2967.9
15°	2926.0	2955.2	2986.5	3022.6	3044.7	3056.5	3059.8	3059.8
17.5°	3017.9	3043.5	3070.3	3105.4	3133.3	3148.4	3152.0	3150.7
20°	3125.2	3149.5	3164.6	3186.7	3211.4	3228.8	3233.4	3233.4
22.5°	3247.4	3261.3	3263.6	3270.6	3290.4	3313.8	3324.2	3326.6
25°	3382.5	3385.9	3376.5	3376.5	3389.5	3411.6	3422.1	3423.3
27.5°	3557.1	3539.6	3516.3	3508.2	3516.3	3541.9	3554.8	3559.4
30°	3774.8	3732.8	3679.4	3650.3	3645.6	3679.4	3702.6	3706.0
32.5°	4024.0	3963.4	3892.4	3833.1	3817.8	3838.8	3866.8	3865.6
35°	4319.7	4247.5	4161.4	4085.8	4050.7	4071.7	4111.4	4115.9
37.5°	4660.9	4566.5	4467.6	4372.1	4317.4	4323.3	4365.1	4379.1
40°	5041.6	4919.4	4794.9	4666.8	4588.7	4573.6	4624.8	4633.0
42.5°	5449.2	5291.9	5134.8	4976.4	4876.3	4853.1	4912.4	4908.9
45°	5883.4	5683.1	5499.2	5324.6	5205.8	5170.9	5219.8	5219.8
47.5°	6350.4	6103.5	5884.5	5686.7	5557.5	5507.4	5554.0	5557.5
50°	6845.3	6583.1	6326.0	6105.8	5951.0	5887.0	5947.5	5956.8
52.5°	7337.7	7082.7	6823.0	6571.6	6384.2	6306.1	6376.0	6406.3
55°	7837.3	7586.8	7339.0	7093.1	6870.9	6778.8	6853.3	6891.7
57.5°	8364.7	8133.0	7896.6	7648.6	7434.4	7291.2	7370.4	7421.5
60°	8983.0	8785.1	8539.3	8265.8	8049.2	7903.6	7949.0	7994.5
62.5°	9472.0	9548.9	9340.3	9023.7	8745.4	8559.1	8603.3	8651.0
65°	9235.7	10023.8	10209.0	9888.8	9503.3	9213.5	9194.8	9219.3
67.5°	7719.7	9250.7	10367.3	10672.5	10349.9	9947.0	9872.6	9908.7
70°	5163.8	7071.1	9041.3	10508.3	10898.2	10742.3	10668.9	10691.1
72.5°	2480.1	4118.3	6133.7	8084.0	9271.6	9816.6	9991.3	10076.3
75°	907.0	1634.7	2956.3	4454.8	5378.2	6225.8	6778.8	7004.8
77.5°	547.2	660.2	944.3	1421.7	1610.3	1802.4	1727.9	1765.2
80°	405.1	457.5	518.1	582.2	603.1	603.1	579.9	561.3
82.5°	284.1	317.9	346.9	381.9	391.2	373.8	307.4	244.5
85°	182.8	197.9	210.7	232.9	227.0	216.6	145.5	129.3
87.5°	83.8	95.5	100.2	110.6	106.0	101.2	72.3	60.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)