

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: P193545

Luminaire Tested: **GLEON-AF-07-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193545  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28373 lumens  
Efficiency: N/A  
Efficacy: 96.2 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): 295  
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

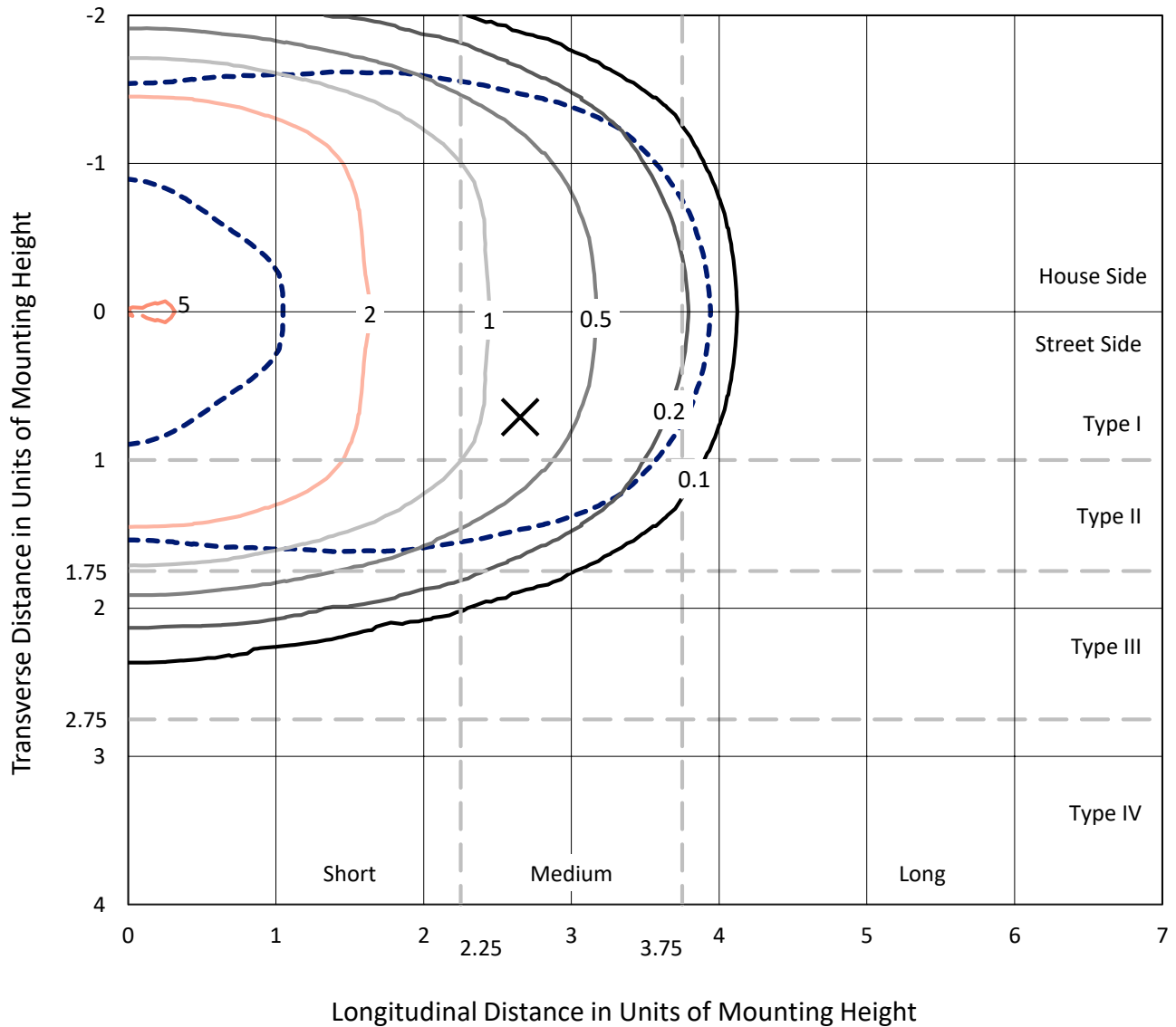


REPORT NUMBER: P193545

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-8030-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

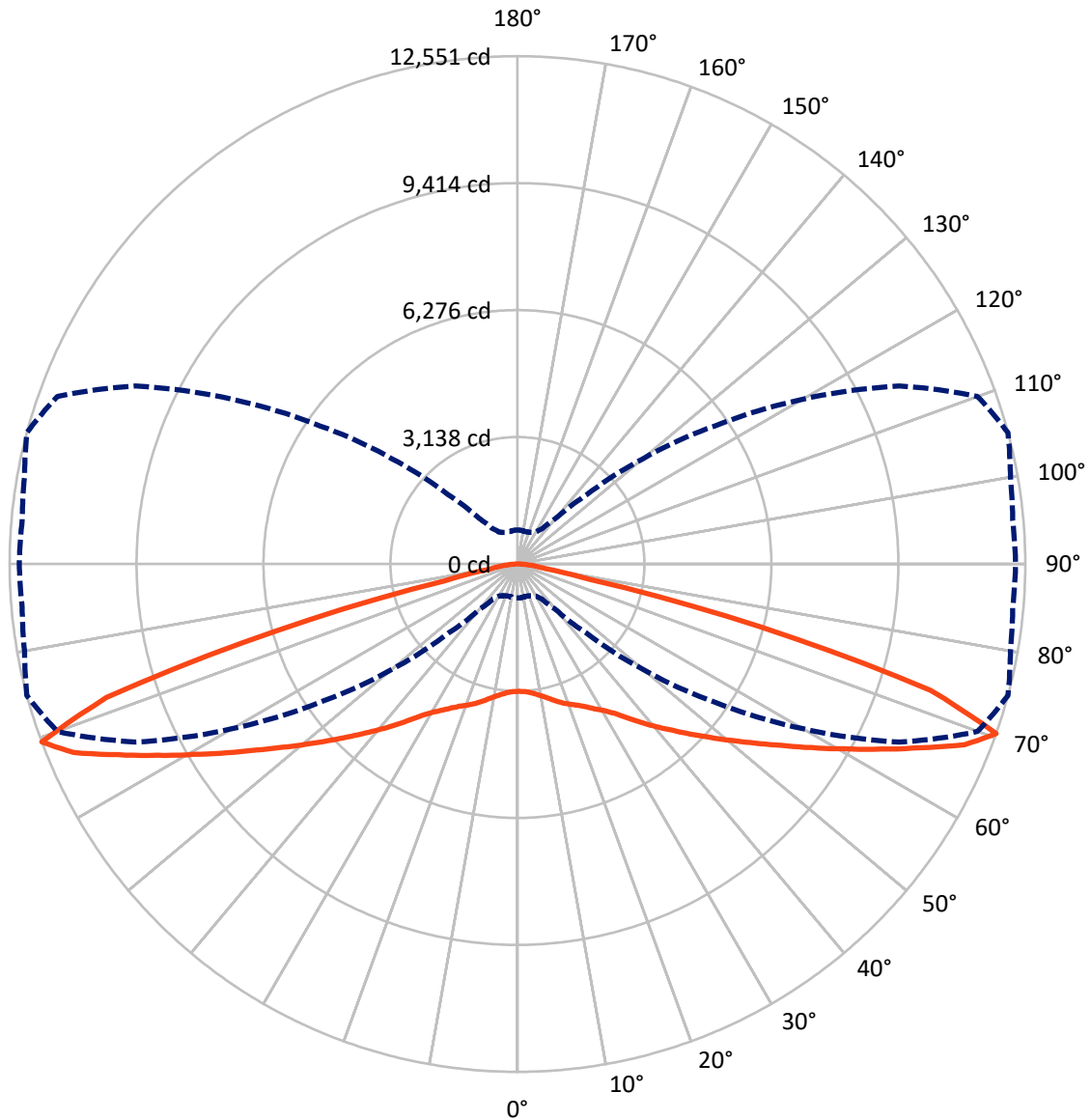


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193545

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-8030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193545

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-8030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14186.5	0.0	14186.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14186.5	0.0	14186.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28373.0	0.0	28373.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.8	1.1
10°-20°	937.9	3.3
20°-30°	1765.2	6.2
30°-40°	3125.9	11.0
40°-50°	5227.4	18.4
50°-60°	7284.5	25.7
60°-70°	6755.2	23.8
70°-80°	2692.1	9.5
80°-90°	283.0	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°	28373.0	100.0
0°-180°	28373.0	100.0



REPORT NUMBER: P193545

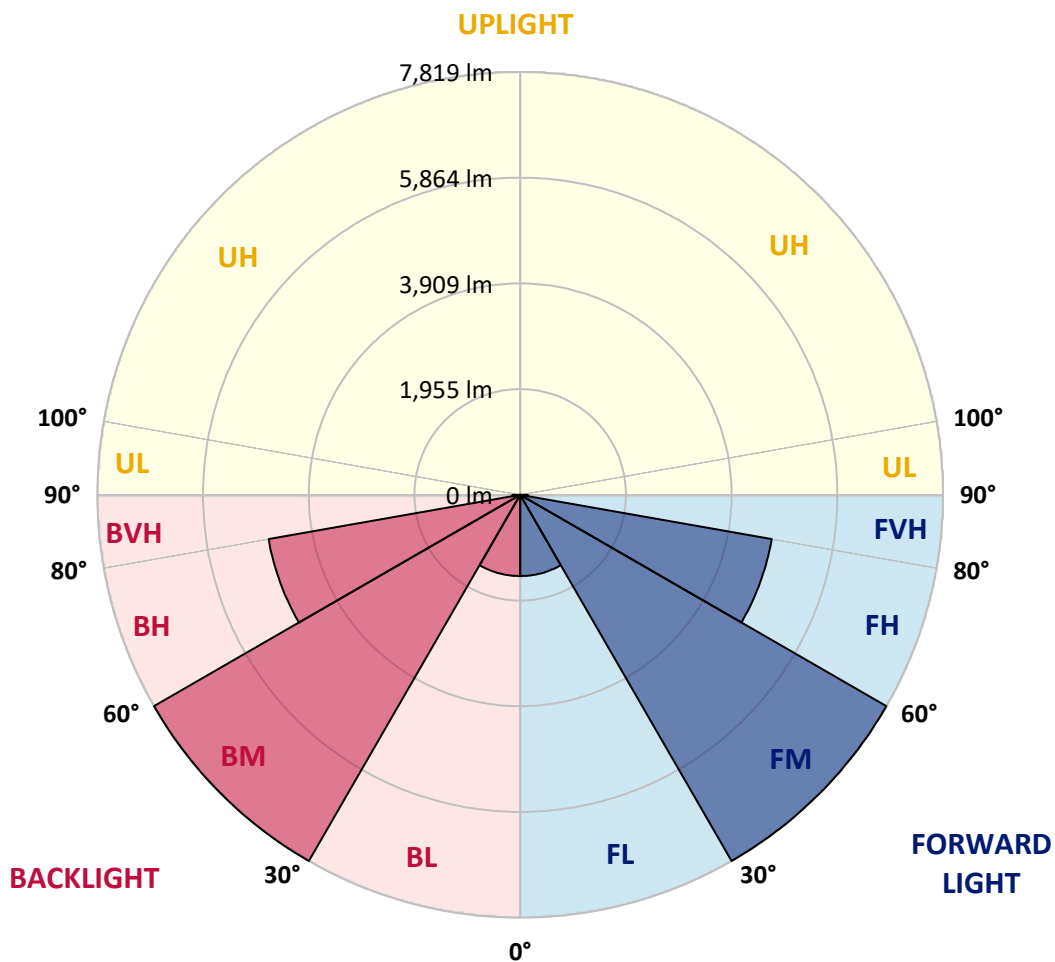
CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-8030-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1502.5	5.3			
FM	(30°-60°)	7818.9	27.6			
FH	(60°-80°)	4723.7	16.6			G2/5000
FVH	(80°-90°)	141.5	0.5			G2/225
BL	(0°-30°)	1502.5	5.3	B3/2500		
BM	(30°-60°)	7818.9	27.6	B4/8500		
BH	(60°-80°)	4723.7	16.6	B4/5000		G4/5000
BVH	(80°-90°)	141.5	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: P193545

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2
2.5°	3141.9	3139.2	3141.9	3140.5	3143.2	3143.2	3145.9	3151.2	3151.2	3155.3	3153.9
5°	3111.0	3109.7	3113.7	3117.7	3121.7	3129.8	3137.8	3149.9	3159.3	3166.0	3172.7
7.5°	3050.7	3050.7	3056.0	3065.4	3074.8	3092.2	3111.0	3135.2	3159.3	3179.4	3196.8
10°	3001.1	3003.7	3010.4	3026.5	3042.6	3069.5	3094.9	3129.8	3163.3	3196.8	3223.7
12.5°	2971.6	2975.6	2987.7	3011.8	3038.6	3074.8	3113.7	3158.0	3195.5	3235.7	3262.5
15°	2980.9	2983.6	3001.1	3030.6	3065.4	3111.0	3163.3	3215.6	3259.9	3302.8	3339.0
17.5°	3033.2	3037.3	3057.4	3090.9	3127.1	3180.8	3237.1	3296.1	3351.1	3399.3	3443.6
20°	3127.1	3131.1	3156.6	3192.8	3235.7	3290.7	3347.0	3408.7	3470.4	3521.4	3571.0
22.5°	3259.9	3266.6	3290.7	3326.9	3375.2	3434.2	3501.2	3566.9	3625.9	3672.9	3717.1
25°	3434.2	3448.9	3471.7	3512.0	3562.9	3616.6	3689.0	3756.0	3812.3	3856.6	3888.8
27.5°	3680.9	3701.0	3718.5	3757.4	3807.0	3857.9	3930.3	3989.3	4043.0	4085.9	4110.0
30°	4008.1	4028.2	4045.7	4083.2	4128.8	4177.1	4245.5	4297.8	4331.3	4364.8	4363.5
32.5°	4405.0	4426.5	4433.2	4473.4	4520.4	4572.7	4634.3	4663.8	4690.7	4694.7	4670.6
35°	4848.9	4859.6	4886.4	4940.1	4993.7	5036.6	5095.6	5110.4	5110.4	5090.3	5036.6
37.5°	5335.7	5342.4	5379.9	5440.3	5495.2	5539.5	5579.7	5609.2	5594.5	5551.6	5461.7
40°	5869.4	5881.4	5935.1	5988.7	6050.4	6092.0	6134.9	6140.2	6125.5	6062.5	5940.4
42.5°	6378.9	6389.7	6443.3	6527.8	6608.2	6665.9	6706.1	6714.2	6667.2	6609.6	6458.1
45°	6817.4	6845.6	6915.3	7014.5	7131.2	7213.0	7268.0	7290.8	7249.2	7174.1	6998.5
47.5°	7164.7	7192.9	7292.1	7410.1	7555.0	7687.7	7778.9	7827.2	7816.4	7760.1	7568.4
50°	7419.5	7446.3	7553.6	7698.4	7867.4	8032.3	8187.9	8303.2	8343.4	8318.0	8142.3
52.5°	7449.0	7493.3	7619.3	7813.8	8033.7	8259.0	8480.2	8676.0	8808.7	8828.9	8698.8
55°	7037.3	7081.6	7255.9	7544.2	7871.4	8238.8	8592.9	8922.7	9184.2	9318.3	9249.9
57.5°	6066.5	6145.6	6329.3	6667.2	7148.6	7698.4	8263.0	8849.0	9381.3	9736.7	9805.1
60°	4649.1	4743.0	4928.0	5287.4	5823.8	6479.5	7233.1	8099.4	9039.4	9838.6	10316.0
62.5°	2982.3	3070.8	3265.2	3577.7	4014.8	4725.5	5534.1	6562.6	7825.8	9087.7	10224.8
65°	1532.7	1581.0	1682.9	1872.0	2212.6	2743.6	3469.1	4494.9	5939.1	7496.0	9140.0
67.5°	970.9	980.2	1003.0	1029.9	1117.0	1300.7	1638.6	2278.3	3466.4	5090.3	7014.5
70°	839.4	839.4	828.7	824.7	835.4	860.9	913.2	1062.0	1463.0	2416.4	4045.7
72.5°	768.4	760.3	741.5	726.8	724.1	724.1	734.8	757.6	822.0	984.3	1583.7
75°	708.0	685.2	659.8	642.3	635.6	628.9	627.6	631.6	645.0	670.5	756.3
77.5°	634.3	604.8	575.3	557.8	549.8	540.4	532.4	523.0	516.3	524.3	561.9
80°	545.8	512.2	489.4	478.7	470.7	457.3	439.8	423.7	409.0	406.3	429.1
82.5°	439.8	400.9	402.3	406.3	391.6	372.8	354.0	336.6	311.1	297.7	311.1
85°	355.4	335.2	325.9	351.3	329.9	301.7	272.2	241.4	201.1	169.0	183.7
87.5°	138.1	138.1	206.5	317.8	285.6	233.3	199.8	170.3	105.9	81.8	83.1
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: P193545

CATALOG NUMBER: GLEON-AF-07-LED-E1-RW-8030-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2	3147.2
2.5°	3152.6	3155.3	3153.9	3152.6	3152.6	3151.2	3152.6	3152.6
5°	3176.7	3183.4	3183.4	3186.1	3186.1	3187.5	3188.8	3187.5
7.5°	3212.9	3225.0	3233.0	3242.4	3243.8	3245.1	3247.8	3245.1
10°	3249.1	3273.3	3290.7	3308.1	3316.2	3318.9	3321.6	3321.6
12.5°	3294.7	3328.3	3359.1	3389.9	3404.7	3412.7	3412.7	3418.1
15°	3369.8	3403.3	3439.6	3481.1	3506.6	3520.0	3524.0	3524.0
17.5°	3475.8	3505.3	3536.1	3576.3	3608.5	3625.9	3630.0	3628.6
20°	3599.1	3627.3	3644.7	3670.2	3698.4	3718.5	3723.8	3723.8
22.5°	3739.9	3756.0	3758.7	3766.7	3789.5	3816.4	3828.4	3831.1
25°	3895.5	3899.5	3888.8	3888.8	3903.5	3929.0	3941.1	3942.4
27.5°	4096.6	4076.5	4049.7	4040.3	4049.7	4079.2	4093.9	4099.3
30°	4347.4	4299.1	4237.4	4203.9	4198.5	4237.4	4264.2	4268.3
32.5°	4634.3	4564.6	4482.8	4414.4	4397.0	4421.1	4453.3	4452.0
35°	4975.0	4891.8	4792.6	4705.4	4665.2	4689.3	4734.9	4740.3
37.5°	5367.9	5259.2	5145.3	5035.3	4972.3	4979.0	5027.2	5043.3
40°	5806.3	5665.5	5522.1	5374.6	5284.7	5267.3	5326.3	5335.7
42.5°	6275.7	6094.7	5913.6	5731.3	5615.9	5589.1	5657.5	5653.5
45°	6775.9	6545.2	6333.3	6132.2	5995.4	5955.2	6011.5	6011.5
47.5°	7313.6	7029.3	6777.2	6549.2	6400.4	6342.7	6396.4	6400.4
50°	7883.5	7581.8	7285.4	7032.0	6853.6	6779.9	6849.6	6860.3
52.5°	8450.7	8157.0	7858.0	7568.4	7352.5	7262.6	7343.1	7377.9
55°	9026.0	8737.7	8452.1	8169.1	7913.0	7807.1	7892.9	7937.1
57.5°	9633.4	9366.6	9094.4	8808.7	8562.0	8397.1	8488.3	8547.3
60°	10345.5	10117.5	9834.6	9519.5	9270.0	9102.4	9154.7	9207.0
62.5°	10908.7	10997.2	10757.2	10392.4	10071.9	9857.4	9908.3	9963.3
65°	10636.5	11544.3	11757.5	11388.8	10944.9	10611.0	10589.5	10617.7
67.5°	8890.5	10653.9	11939.9	12291.2	11919.8	11455.8	11370.0	11411.5
70°	5947.1	8143.6	10412.5	12102.1	12551.4	12371.7	12287.2	12312.7
72.5°	2856.2	4743.0	7064.2	9310.3	10678.0	11305.6	11506.8	11604.6
75°	1044.6	1882.7	3404.7	5130.5	6193.9	7170.1	7807.1	8067.2
77.5°	630.2	760.3	1087.5	1637.3	1854.5	2075.8	1990.0	2032.9
80°	466.7	527.0	596.7	670.5	694.6	694.6	667.8	646.3
82.5°	327.2	366.1	399.6	439.8	450.6	430.4	354.0	281.6
85°	210.5	228.0	242.7	268.2	261.5	249.4	167.6	148.8
87.5°	96.5	110.0	115.3	127.4	122.0	116.7	83.1	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)