

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: P190804

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-5MQ-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30910.5 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

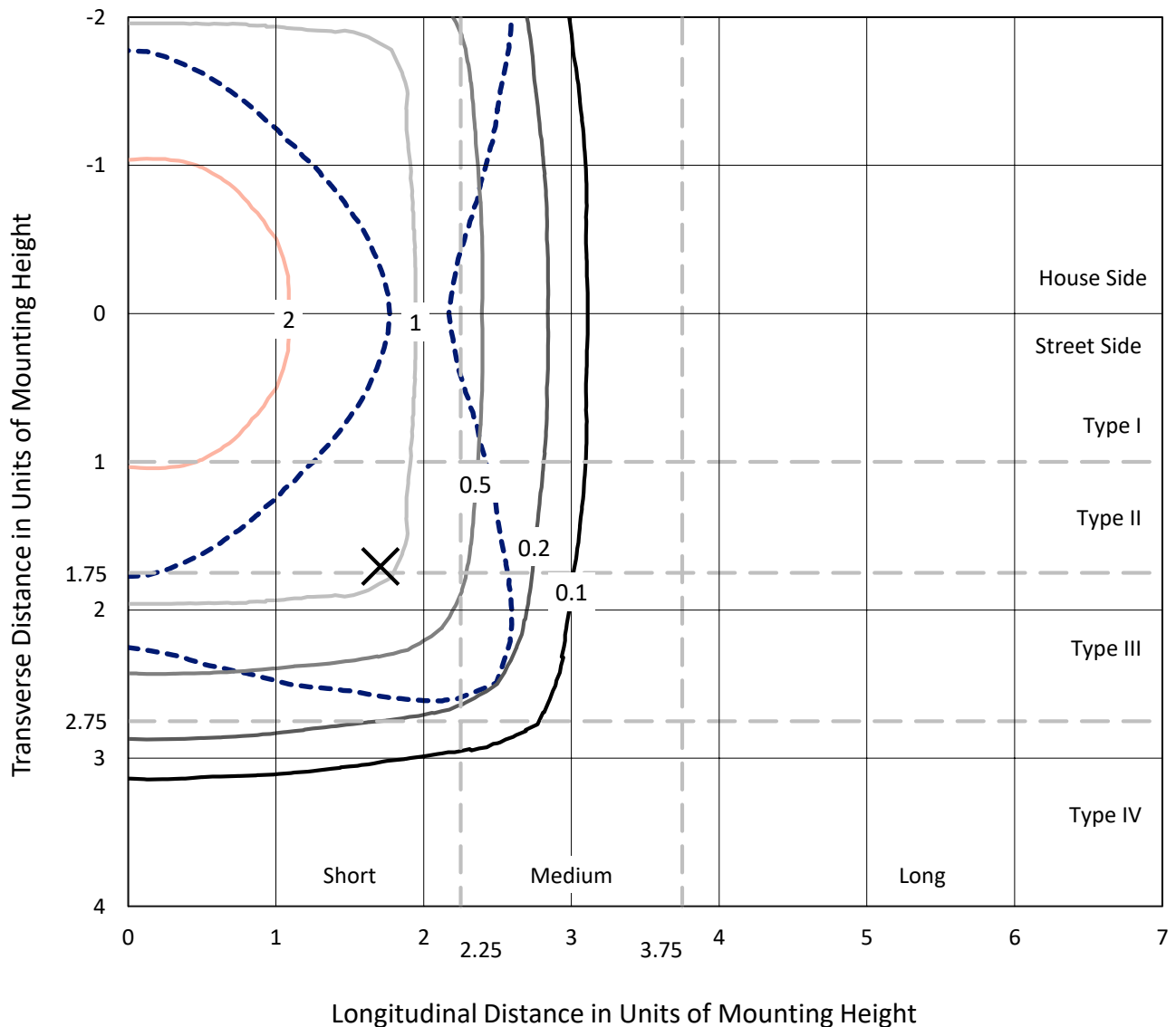
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

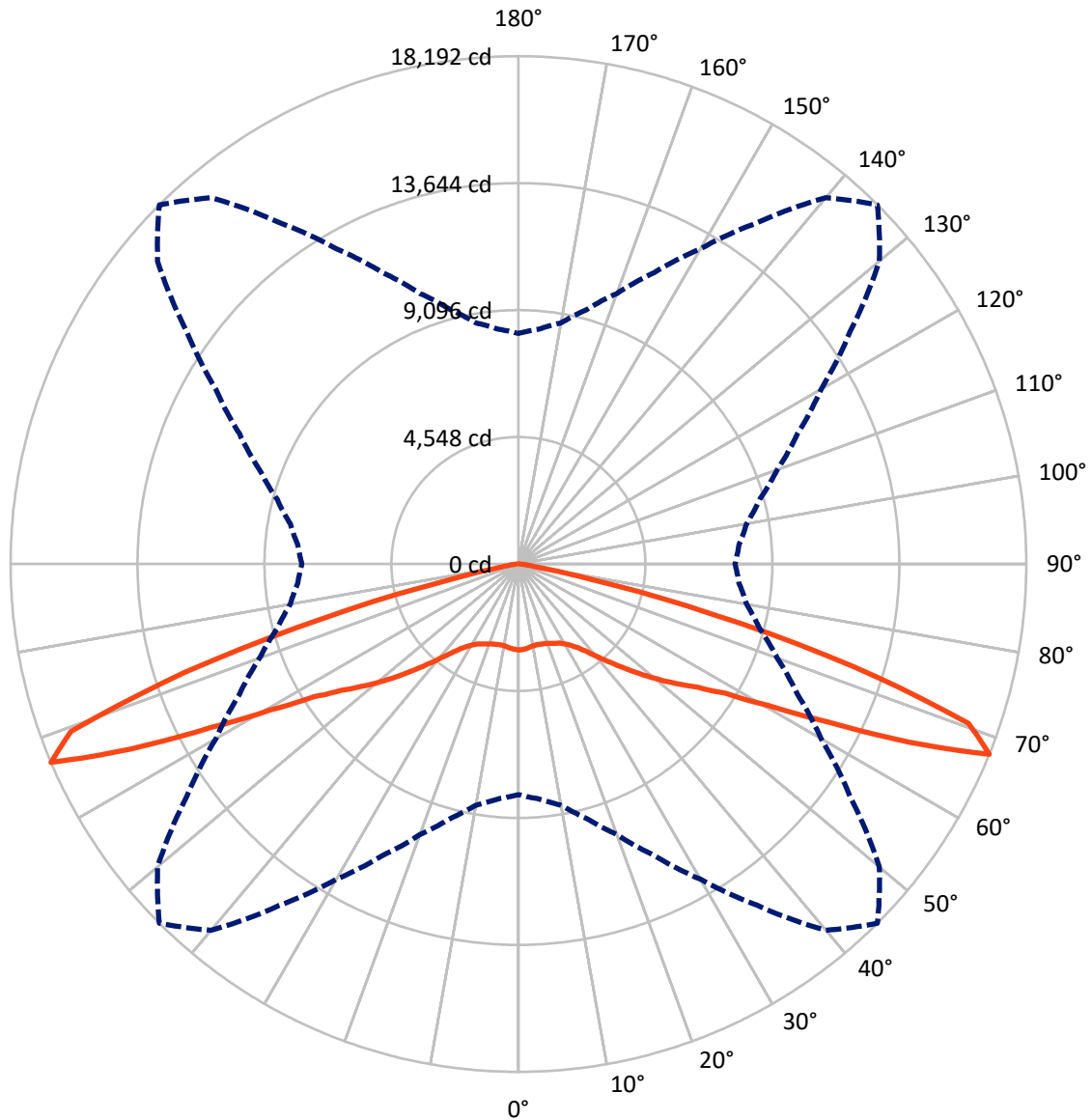
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15455.3	0.0	15455.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15455.3	0.0	15455.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30910.5	0.0	30910.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.3	0.9
10°-20°	836.6	2.7
20°-30°	1422.2	4.6
30°-40°	2324.9	7.5
40°-50°	4150.4	13.4
50°-60°	6997.7	22.6
60°-70°	10859.3	35.1
70°-80°	3815.5	12.3
80°-90°	215.6	0.7
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°	30910.5	100.0
0°-180°	30910.5	100.0



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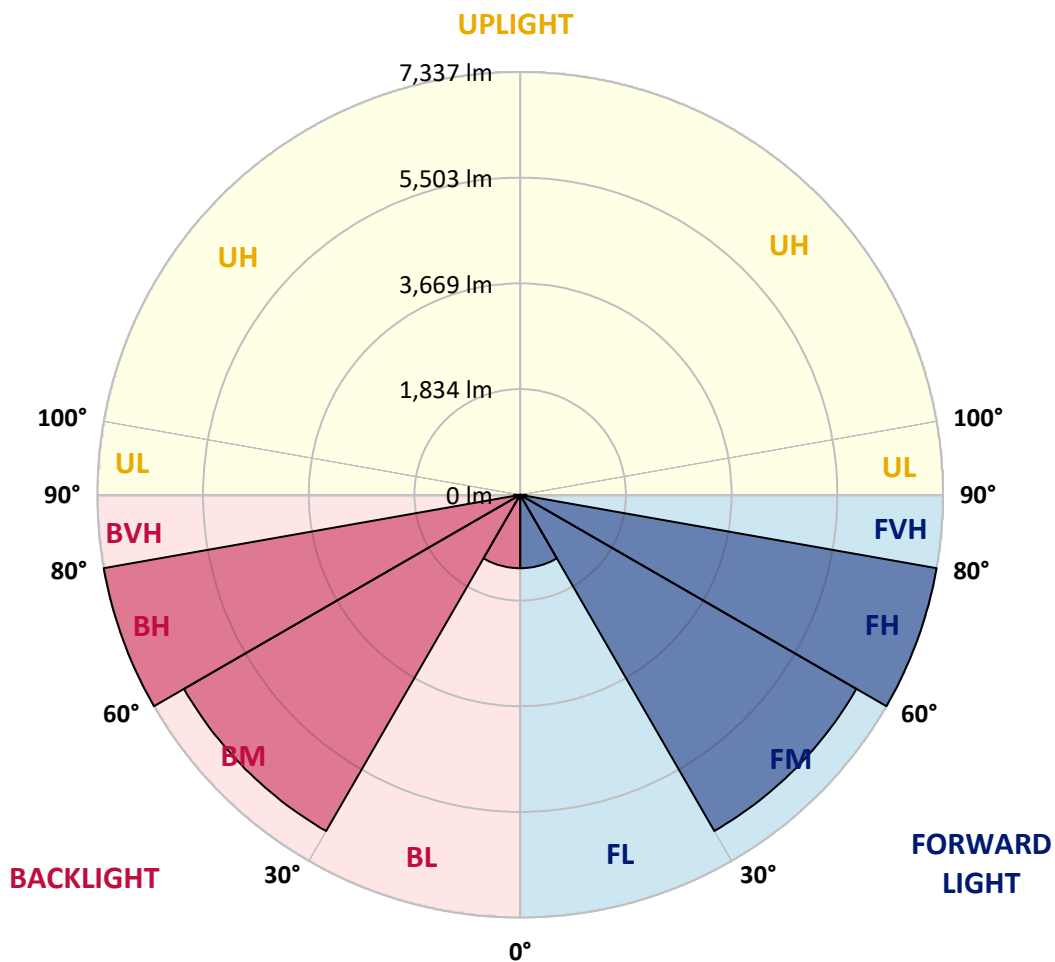
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1273.6	4.1			
FM	(30°-60°)	6736.5	21.8			
FH	(60°-80°)	7337.4	23.7			G3/7500
FVH	(80°-90°)	107.8	0.3			G2/225
BL	(0°-30°)	1273.6	4.1	B3/2500		
BM	(30°-60°)	6736.5	21.8	B4/8500		
BH	(60°-80°)	7337.4	23.7	B5		G3/7500
BVH	(80°-90°)	107.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4
2.5°	3069.0	3071.8	3071.8	3071.8	3070.4	3070.4	3067.5	3070.4	3069.0	3064.8	3066.2
5°	3043.4	3046.2	3046.2	3044.8	3049.1	3047.7	3043.4	3046.2	3044.8	3041.9	3043.4
7.5°	3006.5	3010.7	3010.7	3009.3	3013.5	3012.2	3009.3	3010.7	3010.7	3006.5	3006.5
10°	2965.2	2968.1	2968.1	2966.7	2973.7	2973.7	2972.3	2976.6	2978.0	2973.7	2971.0
12.5°	2926.9	2931.1	2931.1	2936.8	2944.0	2946.7	2953.9	2959.5	2965.2	2963.8	2958.1
15°	2904.1	2906.9	2912.6	2919.7	2931.1	2941.1	2952.4	2965.2	2976.6	2979.4	2971.0
17.5°	2889.8	2894.1	2902.7	2912.6	2928.3	2945.3	2962.4	2979.4	2995.1	3000.7	2990.8
20°	2885.6	2888.5	2897.0	2914.1	2935.4	2960.9	2985.1	3005.0	3026.3	3033.5	3026.3
22.5°	2894.1	2899.9	2909.8	2929.7	2958.1	2990.8	3019.2	3046.2	3073.3	3086.0	3076.1
25°	2932.5	2938.2	2951.0	2976.6	3007.9	3041.9	3074.7	3106.0	3130.1	3142.9	3135.8
27.5°	3003.6	3010.7	3026.3	3052.0	3086.0	3123.0	3158.6	3184.1	3204.0	3208.3	3199.8
30°	3110.2	3125.8	3144.3	3172.8	3212.6	3243.9	3279.4	3302.1	3326.3	3326.3	3319.2
32.5°	3276.5	3292.2	3312.1	3339.1	3370.3	3404.5	3435.8	3455.6	3481.2	3482.6	3465.6
35°	3525.3	3532.4	3549.4	3566.5	3595.0	3624.8	3651.8	3664.6	3685.9	3687.3	3671.7
37.5°	3853.7	3855.1	3866.4	3872.2	3897.7	3930.4	3956.0	3964.5	3984.4	3981.6	3966.0
40°	4236.0	4243.1	4247.4	4255.9	4282.9	4314.2	4341.2	4345.5	4366.8	4362.6	4342.6
42.5°	4678.2	4680.9	4705.2	4718.0	4743.5	4759.2	4793.2	4797.5	4823.1	4811.8	4788.9
45°	5174.2	5199.8	5222.6	5248.1	5275.2	5293.7	5320.7	5314.9	5332.0	5314.9	5302.2
47.5°	5695.9	5714.4	5765.6	5805.3	5849.4	5865.1	5903.4	5886.4	5903.4	5879.3	5875.0
50°	6270.2	6302.9	6346.9	6392.4	6439.4	6464.9	6514.7	6493.4	6516.1	6493.4	6480.6
52.5°	6836.0	6844.5	6941.1	7007.9	7073.3	7103.2	7133.0	7123.1	7124.4	7123.1	7110.3
55°	7373.2	7393.2	7489.8	7580.8	7694.5	7778.4	7829.6	7823.8	7811.0	7798.3	7777.0
57.5°	7978.8	7998.7	8109.5	8221.9	8351.3	8470.6	8574.4	8681.1	8722.3	8733.6	8686.7
60°	8797.6	8796.1	8944.0	9080.4	9265.3	9443.0	9670.4	9902.1	10167.9	10291.6	10128.1
62.5°	9630.6	9664.7	9877.9	10119.5	10500.5	10871.5	11290.8	11703.1	12123.9	12466.4	12102.5
65°	9531.0	9661.9	9978.9	10526.1	11229.7	12065.6	12969.7	13926.4	14790.5	15384.8	14718.1
67.5°	8260.2	8446.5	8769.1	9434.4	10314.3	11519.8	13037.9	14929.9	17128.9	18192.2	16874.5
70°	5987.3	6197.6	6536.0	7185.6	8057.0	9202.7	10851.7	13123.1	16034.3	17106.2	15654.8
72.5°	2979.4	3093.2	3302.1	3715.8	4375.4	5305.0	6800.4	8983.8	11559.5	12543.2	11217.0
75°	1012.1	1064.7	1100.2	1235.3	1444.2	1809.6	2553.0	3927.5	5991.5	7182.8	5906.3
77.5°	584.2	585.6	609.8	634.0	669.5	709.3	808.8	1061.8	1836.6	2608.4	1900.5
80°	378.1	376.7	396.6	415.1	439.3	459.1	464.8	491.8	567.1	672.4	601.3
82.5°	196.2	220.3	264.4	288.6	334.1	342.6	331.2	321.2	339.7	352.5	361.1
85°	108.0	93.8	140.8	182.0	201.8	204.7	204.7	193.3	200.4	196.2	213.2
87.5°	49.7	45.5	55.4	89.5	95.2	81.0	85.3	75.3	54.0	52.6	59.7
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°	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4	3080.4
2.5°	3066.2	3067.5	3067.5	3071.8	3073.3	3076.1	3079.0	3080.4
5°	3041.9	3046.2	3043.4	3047.7	3047.7	3050.5	3050.5	3052.0
7.5°	3006.5	3010.7	3010.7	3010.7	3009.3	3013.5	3013.5	3013.5
10°	2969.5	2972.3	2971.0	2968.1	2965.2	2969.5	2968.1	2966.7
12.5°	2958.1	2951.0	2945.3	2942.5	2936.8	2938.2	2933.9	2933.9
15°	2965.2	2952.4	2942.5	2938.2	2932.5	2929.7	2926.9	2928.3
17.5°	2983.7	2968.1	2955.3	2948.1	2941.1	2936.8	2931.1	2932.5
20°	3016.4	2998.0	2979.4	2965.2	2952.4	2945.3	2941.1	2939.7
22.5°	3064.8	3037.8	3010.7	2989.4	2972.3	2962.4	2958.1	2955.3
25°	3120.2	3090.3	3059.0	3034.9	3017.8	3005.0	2996.5	2996.5
27.5°	3189.9	3165.6	3137.2	3108.7	3093.2	3080.4	3074.7	3071.8
30°	3306.4	3283.7	3260.9	3233.9	3214.0	3201.2	3191.2	3182.7
32.5°	3455.6	3437.1	3418.7	3398.8	3380.3	3363.3	3347.6	3340.4
35°	3666.1	3651.8	3639.0	3616.2	3609.2	3599.3	3590.7	3583.6
37.5°	3956.0	3950.3	3950.3	3926.2	3920.5	3916.2	3907.7	3909.1
40°	4337.0	4342.6	4335.6	4327.0	4322.8	4311.3	4311.3	4321.4
42.5°	4787.6	4791.8	4807.5	4793.2	4808.9	4794.7	4786.2	4793.2
45°	5310.6	5326.3	5357.6	5343.4	5353.3	5329.2	5299.3	5300.7
47.5°	5897.7	5911.9	5924.7	5914.8	5916.2	5876.4	5836.7	5826.6
50°	6507.6	6513.2	6520.4	6506.2	6509.0	6464.9	6419.4	6420.9
52.5°	7110.3	7137.3	7165.7	7127.3	7118.8	7069.1	7005.1	6979.5
55°	7799.7	7838.1	7805.4	7738.6	7671.7	7604.9	7521.0	7506.8
57.5°	8649.8	8584.4	8482.0	8355.5	8263.1	8169.3	8084.0	8048.5
60°	9832.4	9586.5	9401.7	9214.1	9096.1	8981.0	8868.7	8851.6
62.5°	11504.1	11079.1	10710.9	10322.8	10005.9	9758.5	9560.9	9505.5
65°	13599.4	12594.4	11723.0	10909.9	10203.4	9670.4	9334.9	9187.0
67.5°	14500.6	12516.2	11022.2	9868.0	8944.0	8298.7	7936.2	7755.6
70°	12742.2	10379.7	8754.9	7599.3	6757.7	6069.8	5741.4	5548.1
72.5°	8766.3	6602.8	5221.1	4261.6	3589.2	3013.5	2786.1	2769.0
75°	3936.1	2607.0	1796.7	1384.6	1165.7	1013.5	966.6	931.1
77.5°	1101.6	814.5	726.4	679.4	634.0	581.3	561.5	565.8
80°	535.9	506.1	486.1	456.3	415.1	371.0	351.1	359.7
82.5°	355.4	351.1	363.9	342.6	282.8	240.2	201.8	184.7
85°	216.0	218.9	223.2	224.6	190.5	133.6	90.9	102.4
87.5°	85.3	98.1	106.6	110.9	103.7	63.9	51.1	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)