

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: P191622

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191622  
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-04-LED-E1-5MQ-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27671 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 258  
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

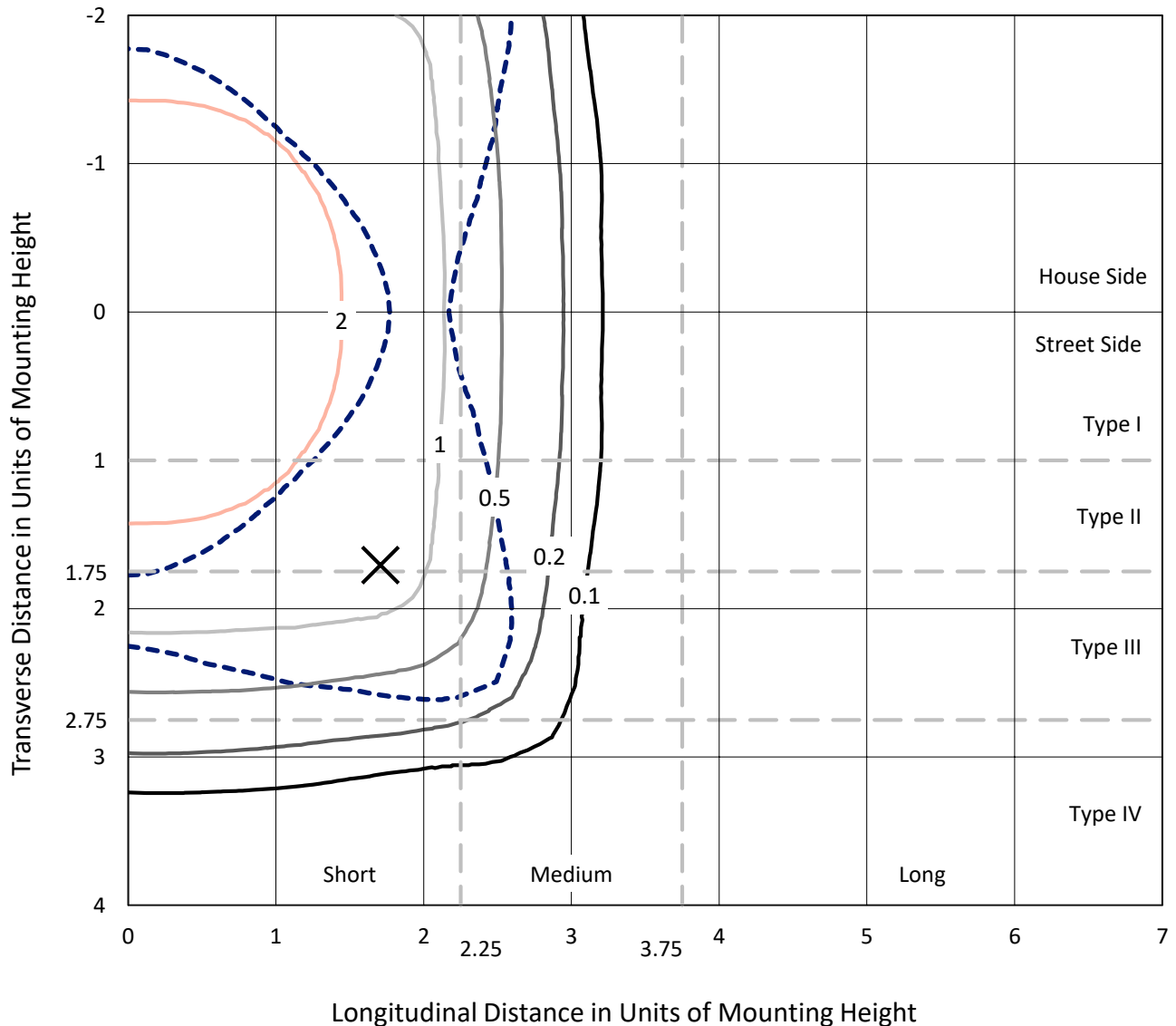


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

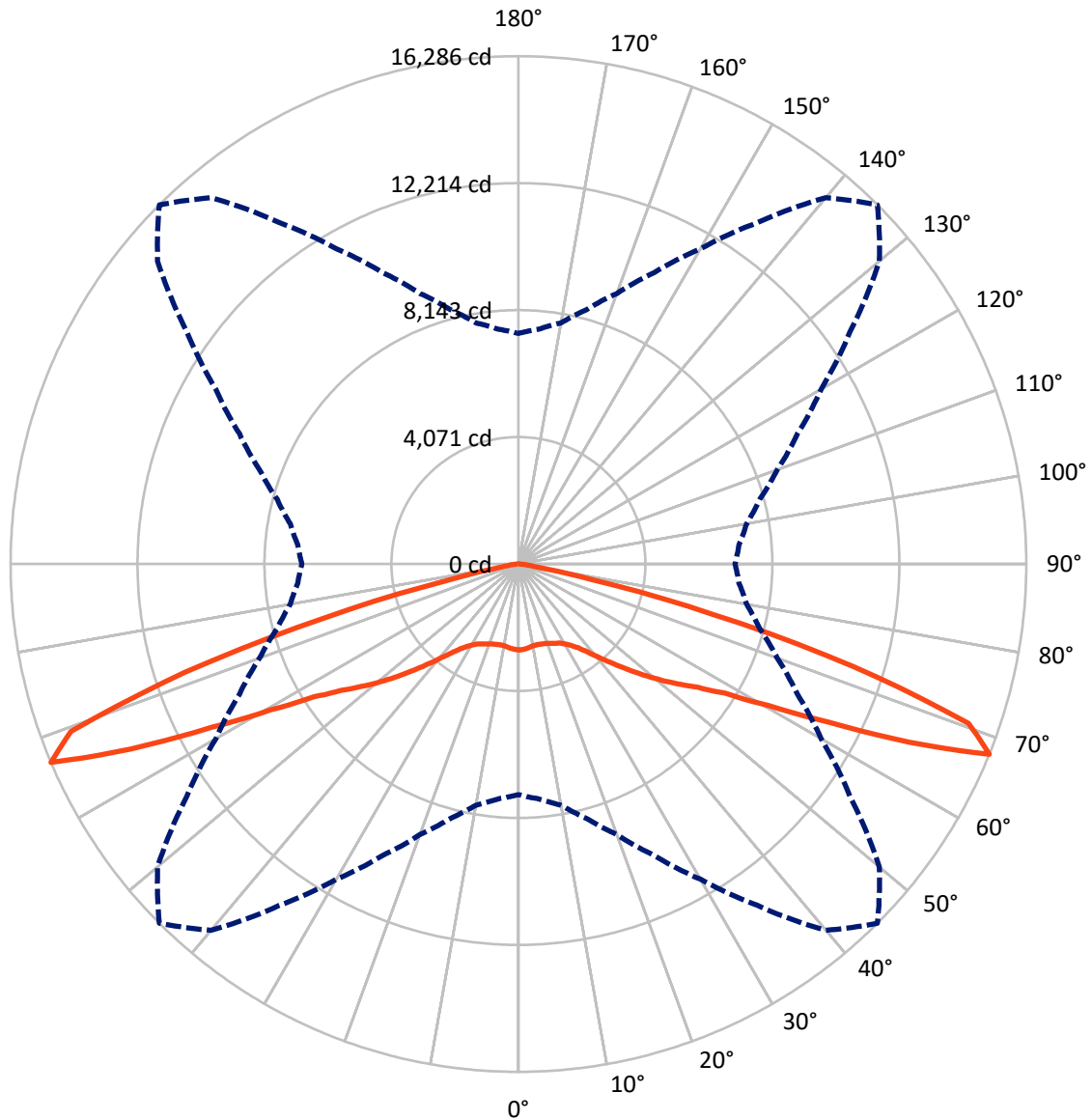


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Full Cutoff

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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	13835.5	0.0	13835.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13835.5	0.0	13835.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27671.0	0.0	27671.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.1	0.9
10°-20°	748.9	2.7
20°-30°	1273.2	4.6
30°-40°	2081.2	7.5
40°-50°	3715.4	13.4
50°-60°	6264.3	22.6
60°-70°	9721.2	35.1
70°-80°	3415.6	12.3
80°-90°	193.0	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°	27671.0	100.0
0°-180°	27671.0	100.0



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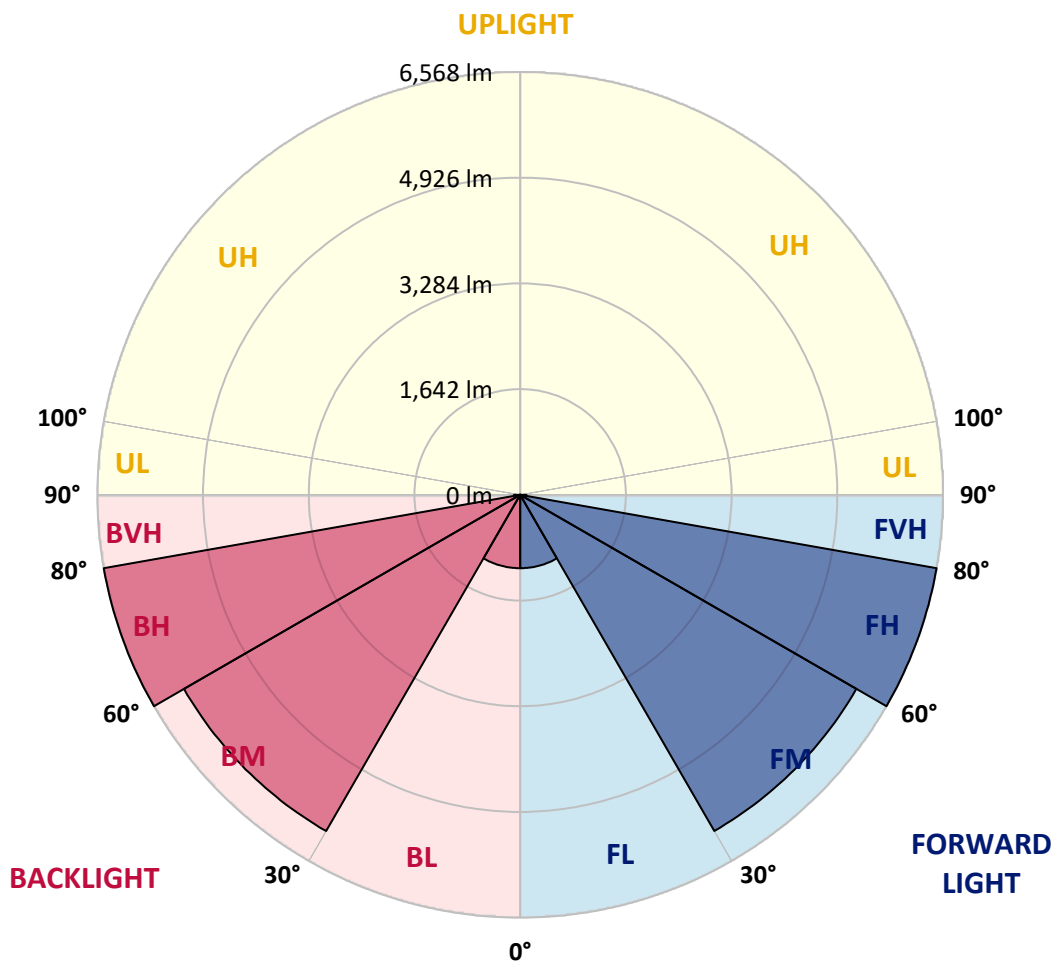
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1140.1	4.1			
FM	(30°-60°)	6030.5	21.8			
FH	(60°-80°)	6568.4	23.7			G3/7500
FVH	(80°-90°)	96.5	0.3			G1/100
BL	(0°-30°)	1140.1	4.1	B3/2500		
BM	(30°-60°)	6030.5	21.8	B4/8500		
BH	(60°-80°)	6568.4	23.7	B5		G3/7500
BVH	(80°-90°)	96.5	0.3			G1/100
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°	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5
2.5°	2747.4	2749.9	2749.9	2749.9	2748.6	2748.6	2746.1	2748.6	2747.4	2743.5	2744.8
5°	2724.4	2727.0	2727.0	2725.7	2729.5	2728.3	2724.4	2727.0	2725.7	2723.2	2724.4
7.5°	2691.4	2695.2	2695.2	2693.9	2697.7	2696.5	2693.9	2695.2	2695.2	2691.4	2691.4
10°	2654.5	2657.0	2657.0	2655.7	2662.1	2662.1	2660.8	2664.6	2665.9	2662.1	2659.5
12.5°	2620.1	2623.9	2623.9	2629.0	2635.4	2637.9	2644.3	2649.4	2654.5	2653.2	2648.1
15°	2599.7	2602.3	2607.4	2613.7	2623.9	2632.8	2643.0	2654.5	2664.6	2667.2	2659.5
17.5°	2587.0	2590.8	2598.5	2607.4	2621.4	2636.6	2651.9	2667.2	2681.2	2686.3	2677.4
20°	2583.2	2585.7	2593.4	2608.6	2627.7	2650.6	2672.3	2690.1	2709.2	2715.5	2709.2
22.5°	2590.8	2595.9	2604.8	2622.6	2648.1	2677.4	2702.8	2727.0	2751.2	2762.6	2753.7
25°	2625.2	2630.3	2641.7	2664.6	2692.6	2723.2	2752.4	2780.4	2802.1	2813.5	2807.2
27.5°	2688.8	2695.2	2709.2	2732.1	2762.6	2795.7	2827.5	2850.4	2868.2	2872.1	2864.4
30°	2784.3	2798.3	2814.8	2840.2	2875.9	2903.9	2935.7	2956.0	2977.7	2977.7	2971.3
32.5°	2933.1	2947.1	2965.0	2989.1	3017.1	3047.7	3075.7	3093.5	3116.4	3117.7	3102.4
35°	3155.8	3162.2	3177.5	3192.7	3218.2	3244.9	3269.1	3280.5	3299.6	3300.9	3286.9
37.5°	3449.8	3451.1	3461.2	3466.3	3489.2	3518.5	3541.4	3549.0	3566.8	3564.3	3550.3
40°	3792.1	3798.4	3802.3	3809.9	3834.1	3862.1	3886.2	3890.1	3909.2	3905.3	3887.5
42.5°	4187.8	4190.4	4212.0	4223.5	4246.4	4260.4	4290.9	4294.7	4317.6	4307.5	4287.1
45°	4631.9	4654.8	4675.2	4698.1	4722.3	4738.8	4763.0	4757.9	4773.2	4757.9	4746.5
47.5°	5099.0	5115.5	5161.3	5196.9	5236.4	5250.4	5284.7	5269.5	5284.7	5263.1	5259.3
50°	5613.0	5642.3	5681.8	5722.5	5764.5	5787.4	5831.9	5812.8	5833.2	5812.8	5801.4
52.5°	6119.5	6127.1	6213.7	6273.5	6332.0	6358.7	6385.5	6376.6	6377.8	6376.6	6365.1
55°	6600.5	6618.3	6704.9	6786.3	6888.1	6963.2	7009.0	7003.9	6992.4	6981.0	6961.9
57.5°	7142.6	7160.4	7259.7	7360.2	7476.0	7582.9	7675.8	7771.2	7808.1	7818.3	7776.3
60°	7875.6	7874.3	8006.6	8128.8	8294.2	8453.3	8656.9	8864.3	9102.3	9213.0	9066.6
62.5°	8621.3	8651.8	8842.7	9059.0	9400.0	9732.2	10107.6	10476.6	10853.2	11159.9	10834.2
65°	8532.2	8649.3	8933.0	9422.9	10052.8	10801.1	11610.4	12466.8	13240.5	13772.4	13175.6
67.5°	7394.6	7561.3	7850.1	8445.7	9233.3	10312.4	11671.5	13365.2	15333.8	16285.6	15106.0
70°	5359.8	5548.1	5851.0	6432.5	7212.6	8238.2	9714.4	11747.8	14353.9	15313.4	14014.2
72.5°	2667.2	2769.0	2956.0	3326.3	3916.8	4749.0	6087.7	8042.3	10348.1	11228.6	10041.4
75°	906.0	953.1	984.9	1105.8	1292.9	1619.9	2285.4	3515.9	5363.6	6430.0	5287.3
77.5°	523.0	524.3	545.9	567.5	599.4	635.0	724.1	950.6	1644.1	2335.1	1701.3
80°	338.5	337.2	355.0	371.6	393.2	411.0	416.1	440.3	507.7	601.9	538.3
82.5°	175.6	197.2	236.7	258.3	299.0	306.7	296.5	287.6	304.1	315.6	323.2
85°	96.7	84.0	126.0	162.9	180.7	183.2	183.2	173.1	179.4	175.6	190.9
87.5°	44.5	40.7	49.6	80.2	85.3	72.5	76.4	67.4	48.4	47.1	53.4
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°	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5	2757.5
2.5°	2744.8	2746.1	2746.1	2749.9	2751.2	2753.7	2756.3	2757.5
5°	2723.2	2727.0	2724.4	2728.3	2728.3	2730.8	2730.8	2732.1
7.5°	2691.4	2695.2	2695.2	2695.2	2693.9	2697.7	2697.7	2697.7
10°	2658.3	2660.8	2659.5	2657.0	2654.5	2658.3	2657.0	2655.7
12.5°	2648.1	2641.7	2636.6	2634.1	2629.0	2630.3	2626.5	2626.5
15°	2654.5	2643.0	2634.1	2630.3	2625.2	2622.6	2620.1	2621.4
17.5°	2671.0	2657.0	2645.6	2639.2	2632.8	2629.0	2623.9	2625.2
20°	2700.3	2683.7	2667.2	2654.5	2643.0	2636.6	2632.8	2631.6
22.5°	2743.5	2719.4	2695.2	2676.1	2660.8	2651.9	2648.1	2645.6
25°	2793.2	2766.4	2738.4	2716.8	2701.5	2690.1	2682.5	2682.5
27.5°	2855.5	2833.9	2808.4	2783.0	2769.0	2757.5	2752.4	2749.9
30°	2959.9	2939.5	2919.1	2895.0	2877.1	2865.7	2856.8	2849.2
32.5°	3093.5	3076.9	3060.4	3042.6	3026.0	3010.8	2996.8	2990.4
35°	3281.8	3269.1	3257.6	3237.3	3230.9	3222.0	3214.4	3208.0
37.5°	3541.4	3536.3	3536.3	3514.7	3509.6	3505.8	3498.1	3499.4
40°	3882.4	3887.5	3881.2	3873.5	3869.7	3859.5	3859.5	3868.4
42.5°	4285.8	4289.6	4303.6	4290.9	4304.9	4292.2	4284.5	4290.9
45°	4754.1	4768.1	4796.1	4783.4	4792.3	4770.6	4743.9	4745.2
47.5°	5279.6	5292.4	5303.8	5294.9	5296.2	5260.6	5224.9	5216.0
50°	5825.6	5830.6	5837.0	5824.3	5826.8	5787.4	5746.7	5747.9
52.5°	6365.1	6389.3	6414.7	6380.4	6372.7	6328.2	6270.9	6248.0
55°	6982.3	7016.6	6987.4	6927.6	6867.7	6807.9	6732.9	6720.1
57.5°	7743.2	7684.7	7593.1	7479.8	7397.1	7313.1	7236.8	7205.0
60°	8802.0	8581.8	8416.4	8248.4	8142.8	8039.7	7939.2	7923.9
62.5°	10298.4	9918.0	9588.4	9241.0	8957.2	8735.8	8558.9	8509.3
65°	12174.1	11274.4	10494.4	9766.5	9134.1	8656.9	8356.6	8224.2
67.5°	12980.9	11204.5	9867.1	8833.8	8006.6	7428.9	7104.4	6942.8
70°	11406.8	9291.9	7837.4	6802.8	6049.5	5433.6	5139.7	4966.6
72.5°	7847.6	5910.8	4673.9	3815.0	3213.1	2697.7	2494.1	2478.9
75°	3523.6	2333.8	1608.5	1239.4	1043.5	907.3	865.3	833.5
77.5°	986.2	729.1	650.3	608.3	567.5	520.5	502.6	506.5
80°	479.7	453.0	435.2	408.5	371.6	332.1	314.3	321.9
82.5°	318.1	314.3	325.8	306.7	253.2	215.1	180.7	165.4
85°	193.4	196.0	199.8	201.1	170.5	119.6	81.4	91.6
87.5°	76.4	87.8	95.4	99.3	92.9	57.3	45.8	47.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)