

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: P190994

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190994
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-06-LED-E1-RW-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24527.3 lumens
Efficiency: N/A
Efficacy: 127.1 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): 193
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

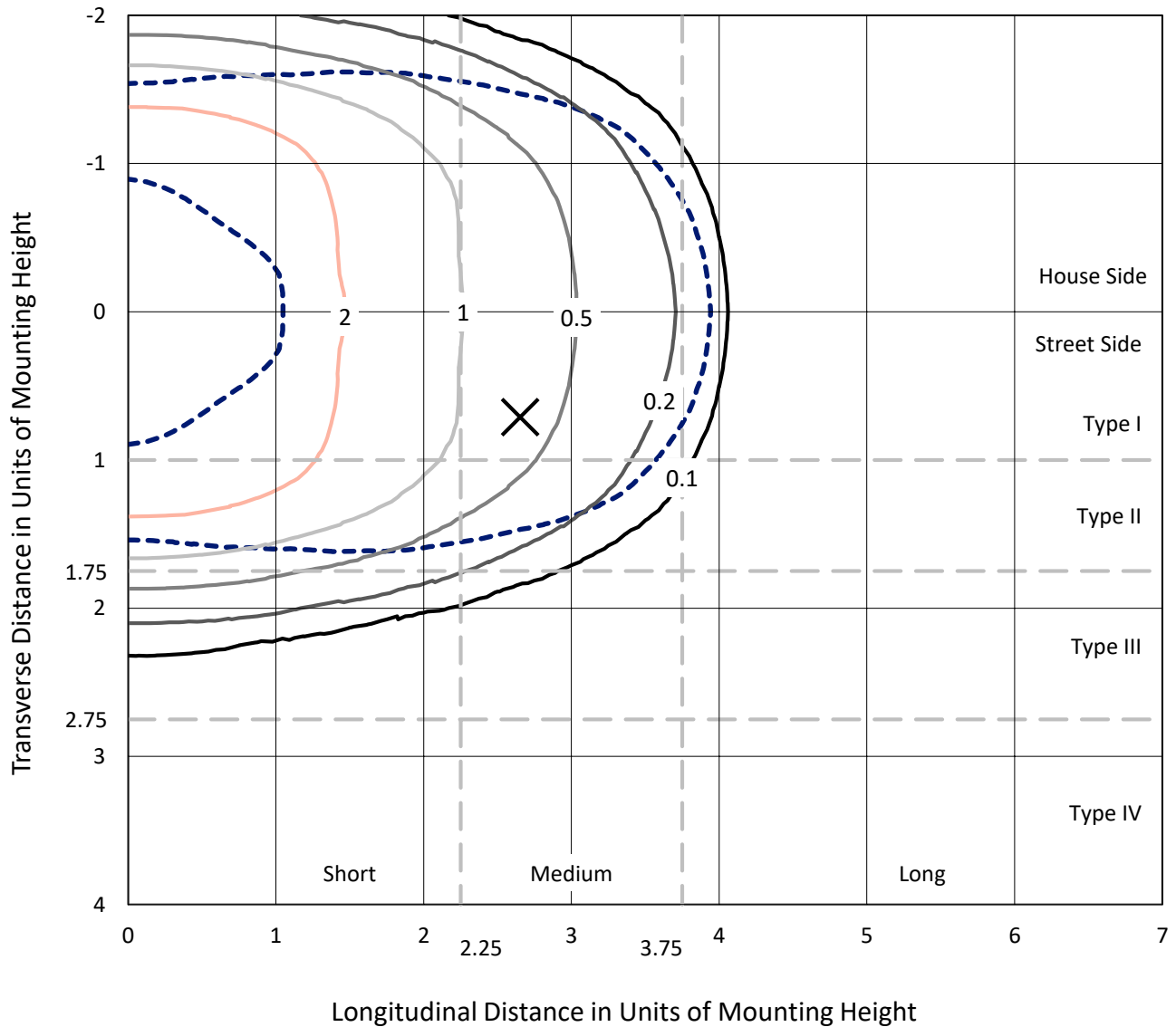


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

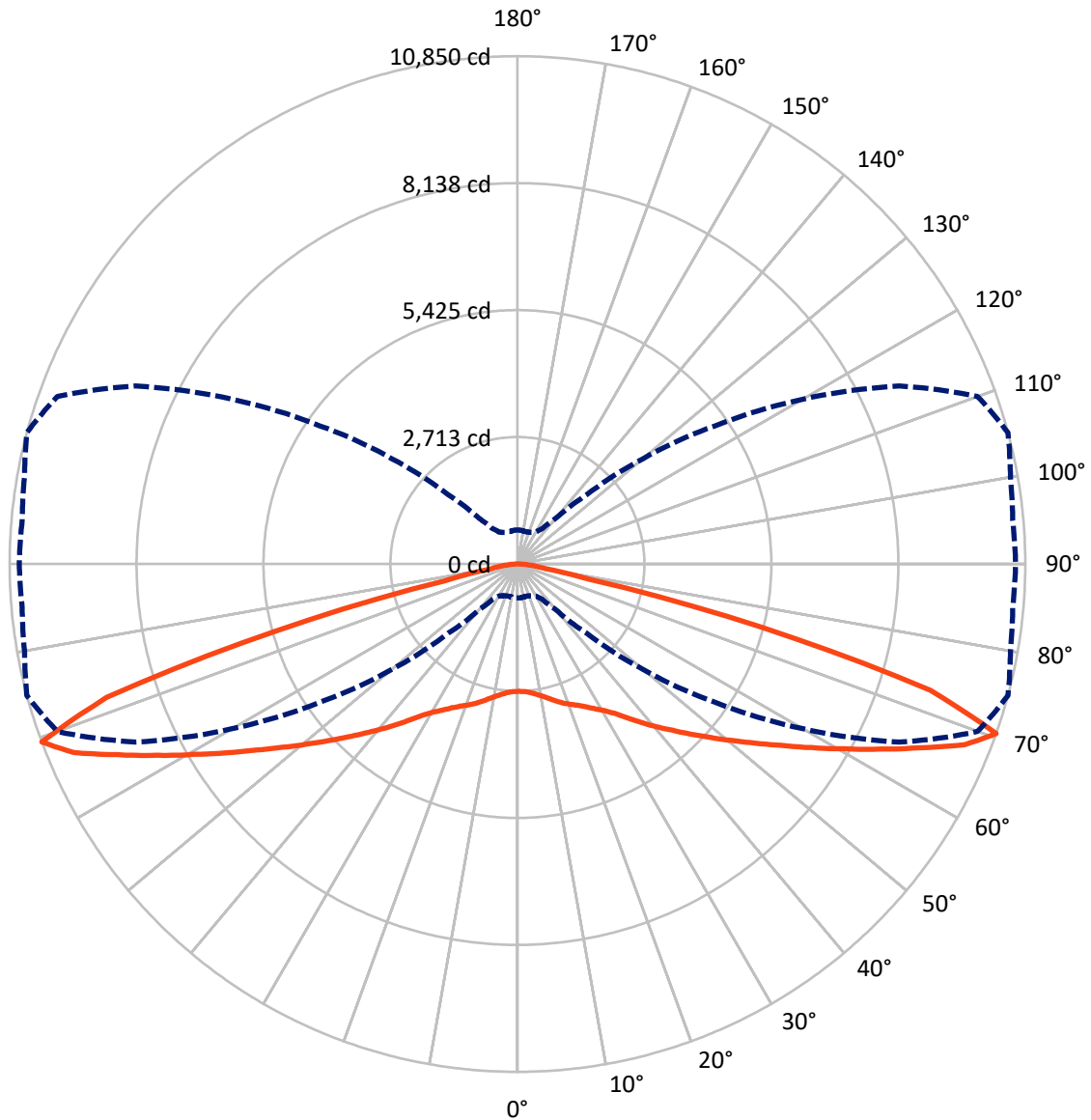


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - Full Cutoff

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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	12263.7	0.0	12263.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12263.7	0.0	12263.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24527.3	0.0	24527.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.1
10°-20°	810.8	3.3
20°-30°	1526.0	6.2
30°-40°	2702.2	11.0
40°-50°	4518.9	18.4
50°-60°	6297.1	25.7
60°-70°	5839.6	23.8
70°-80°	2327.2	9.5
80°-90°	244.6	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°	24527.3	100.0
0°-180°	24527.3	100.0

Coefficient of Utilization



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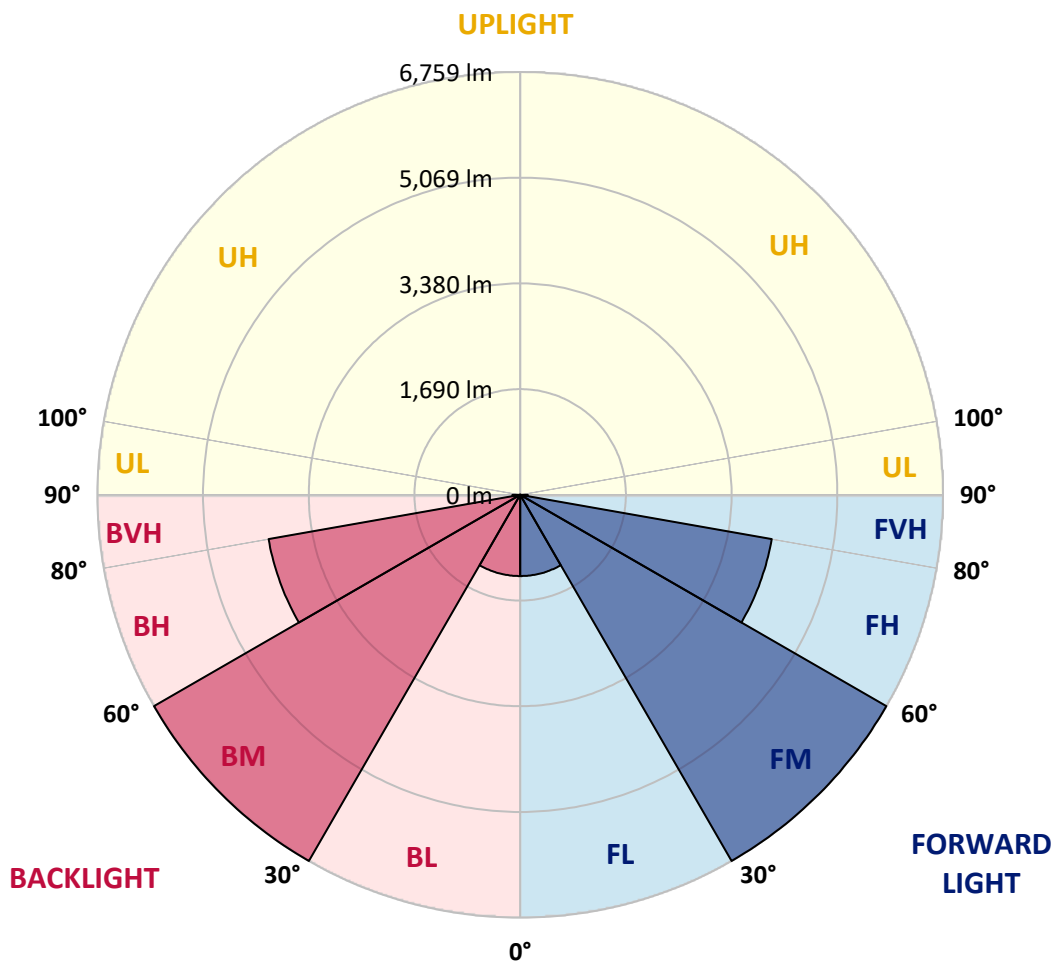
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1298.8	5.3			
FM	(30°-60°)	6759.1	27.6			
FH	(60°-80°)	4083.4	16.6			G2/5000
FVH	(80°-90°)	122.3	0.5			G2/225
BL	(0°-30°)	1298.8	5.3	B3/2500		
BM	(30°-60°)	6759.1	27.6	B4/8500		
BH	(60°-80°)	4083.4	16.6	B4/5000		G4/5000
BVH	(80°-90°)	122.3	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°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2716.0	2713.7	2716.0	2714.8	2717.2	2717.2	2719.5	2724.1	2724.1	2727.6	2726.5
5°	2689.3	2688.2	2691.7	2695.2	2698.6	2705.6	2712.6	2723.0	2731.1	2736.9	2742.6
7.5°	2637.2	2637.2	2641.9	2650.0	2658.0	2673.1	2689.3	2710.2	2731.1	2748.5	2763.5
10°	2594.3	2596.7	2602.4	2616.3	2630.2	2653.4	2675.4	2705.6	2734.6	2763.5	2786.7
12.5°	2568.8	2572.3	2582.7	2603.6	2626.7	2658.0	2691.7	2729.9	2762.4	2797.2	2820.4
15°	2576.9	2579.3	2594.3	2619.8	2650.0	2689.3	2734.6	2779.8	2818.0	2855.2	2886.5
17.5°	2622.1	2625.6	2643.0	2671.9	2703.2	2749.6	2798.3	2849.3	2896.9	2938.5	2976.8
20°	2703.2	2706.7	2728.7	2760.0	2797.2	2844.7	2893.4	2946.7	3000.0	3044.1	3087.0
22.5°	2818.0	2823.9	2844.7	2876.0	2917.8	2968.7	3026.7	3083.5	3134.5	3175.0	3213.3
25°	2968.7	2981.5	3001.1	3035.9	3080.0	3126.3	3188.9	3246.9	3295.6	3333.9	3361.7
27.5°	3182.0	3199.4	3214.4	3248.1	3290.9	3335.0	3397.6	3448.7	3495.0	3532.0	3552.9
30°	3464.8	3482.2	3497.3	3529.8	3569.2	3610.9	3670.0	3715.3	3744.2	3773.2	3772.0
32.5°	3807.9	3826.6	3832.3	3867.1	3907.7	3952.9	4006.2	4031.8	4054.9	4058.4	4037.5
35°	4191.6	4201.0	4224.2	4270.5	4316.9	4354.0	4404.9	4417.7	4417.7	4400.3	4354.0
37.5°	4612.5	4618.2	4650.7	4702.9	4750.4	4788.6	4823.4	4849.0	4836.2	4799.1	4721.4
40°	5073.8	5084.3	5130.6	5176.9	5230.3	5266.3	5303.4	5308.0	5295.2	5240.8	5135.3
42.5°	5514.3	5523.6	5570.0	5643.0	5712.6	5762.4	5797.2	5804.1	5763.5	5713.7	5582.8
45°	5893.4	5917.8	5978.0	6063.7	6164.6	6235.4	6282.9	6302.6	6266.7	6201.7	6049.8
47.5°	6193.7	6218.0	6303.7	6405.7	6530.9	6645.7	6724.6	6766.3	6757.0	6708.3	6542.6
50°	6413.9	6437.0	6529.8	6655.0	6801.1	6943.6	7078.1	7177.7	7212.5	7190.5	7038.7
52.5°	6439.4	6477.6	6586.6	6754.6	6944.8	7139.5	7330.8	7500.1	7614.8	7632.2	7519.7
55°	6083.5	6121.7	6272.4	6521.7	6804.6	7122.1	7428.2	7713.4	7939.4	8055.3	7996.2
57.5°	5244.3	5312.6	5471.5	5763.5	6179.7	6655.0	7143.0	7649.6	8109.7	8416.9	8476.1
60°	4019.0	4100.1	4260.1	4570.7	5034.5	5601.3	6252.8	7001.6	7814.2	8505.0	8917.8
62.5°	2578.0	2654.6	2822.6	3092.8	3470.7	4085.1	4784.0	5673.2	6765.1	7856.0	8838.9
65°	1324.9	1366.7	1454.8	1618.2	1912.7	2371.7	2998.9	3885.7	5134.1	6480.0	7901.2
67.5°	839.2	847.4	867.1	890.3	965.7	1124.4	1416.6	1969.5	2996.5	4400.3	6063.7
70°	725.7	725.7	716.4	712.9	722.2	744.2	789.4	918.1	1264.7	2088.9	3497.3
72.5°	664.2	657.2	641.1	628.3	625.9	625.9	635.3	655.0	710.5	850.9	1369.0
75°	612.0	592.4	570.3	555.3	549.4	543.7	542.5	545.9	557.6	579.6	653.8
77.5°	548.3	522.8	497.3	482.2	475.3	467.2	460.2	452.0	446.3	453.3	485.7
80°	471.8	442.8	423.1	413.9	406.9	395.3	380.2	366.3	353.5	351.3	370.9
82.5°	380.2	346.6	347.8	351.3	338.5	322.2	306.1	290.9	268.9	257.4	268.9
85°	307.2	289.8	281.7	303.7	285.2	260.9	235.3	208.7	173.9	146.1	158.8
87.5°	119.4	119.4	178.5	274.8	246.9	201.7	172.7	147.2	91.6	70.7	71.9
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°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2725.2	2727.6	2726.5	2725.2	2725.2	2724.1	2725.2	2725.2
5°	2746.1	2751.9	2751.9	2754.3	2754.3	2755.4	2756.5	2755.4
7.5°	2777.4	2787.8	2794.8	2803.0	2804.1	2805.2	2807.6	2805.2
10°	2808.7	2829.6	2844.7	2859.8	2866.7	2869.1	2871.3	2871.3
12.5°	2848.2	2877.2	2903.9	2930.4	2943.2	2950.2	2950.2	2954.8
15°	2913.1	2942.0	2973.3	3009.3	3031.3	3042.9	3046.3	3046.3
17.5°	3004.6	3030.2	3056.8	3091.6	3119.4	3134.5	3138.0	3136.8
20°	3111.3	3135.7	3150.7	3172.8	3197.1	3214.4	3219.1	3219.1
22.5°	3233.0	3246.9	3249.2	3256.2	3275.9	3299.1	3309.6	3311.8
25°	3367.5	3370.9	3361.7	3361.7	3374.4	3396.5	3406.9	3408.1
27.5°	3541.4	3524.0	3500.7	3492.7	3500.7	3526.3	3539.0	3543.7
30°	3758.1	3716.4	3663.1	3634.1	3629.4	3663.1	3686.3	3689.8
32.5°	4006.2	3945.9	3875.2	3816.1	3801.0	3821.8	3849.7	3848.5
35°	4300.7	4228.8	4143.0	4067.7	4032.9	4053.7	4093.1	4097.7
37.5°	4640.3	4546.4	4447.9	4352.8	4298.3	4304.2	4345.8	4359.7
40°	5019.3	4897.6	4773.6	4646.0	4568.4	4553.4	4604.3	4612.5
42.5°	5425.1	5268.6	5112.1	4954.5	4854.7	4831.6	4890.6	4887.1
45°	5857.4	5658.0	5474.9	5301.0	5182.8	5148.0	5196.7	5196.7
47.5°	6322.2	6076.5	5858.6	5661.5	5532.8	5483.0	5529.4	5532.8
50°	6815.0	6554.1	6297.9	6078.9	5924.7	5860.9	5921.2	5930.5
52.5°	7305.3	7051.4	6792.9	6542.6	6355.9	6278.3	6347.8	6377.9
55°	7802.6	7553.4	7306.4	7061.8	6840.5	6748.9	6823.1	6861.3
57.5°	8327.7	8097.1	7861.7	7614.8	7401.5	7259.0	7337.7	7388.8
60°	8943.2	8746.2	8501.6	8229.1	8013.6	7868.6	7913.9	7959.1
62.5°	9430.1	9506.6	9299.1	8983.9	8706.7	8521.3	8565.4	8612.8
65°	9194.8	9979.6	10163.9	9845.1	9461.4	9172.8	9154.2	9178.5
67.5°	7685.5	9209.8	10321.6	10625.3	10304.2	9903.1	9828.9	9864.8
70°	5141.0	7039.8	9001.3	10461.8	10850.1	10694.8	10621.8	10643.8
72.5°	2469.1	4100.1	6106.7	8048.4	9230.7	9773.3	9947.1	10031.8
75°	903.1	1627.5	2943.2	4435.1	5354.3	6198.3	6748.9	6973.8
77.5°	544.8	657.2	940.1	1415.4	1603.2	1794.5	1720.3	1757.3
80°	403.5	455.5	515.9	579.6	600.5	600.5	577.3	558.7
82.5°	282.8	316.5	345.5	380.2	389.5	372.1	306.1	243.5
85°	182.0	197.0	209.8	231.8	226.1	215.6	144.8	128.7
87.5°	83.5	95.0	99.7	110.2	105.5	100.9	71.9	60.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)