

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: P191685

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
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-E1-5WQ-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35830 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - 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

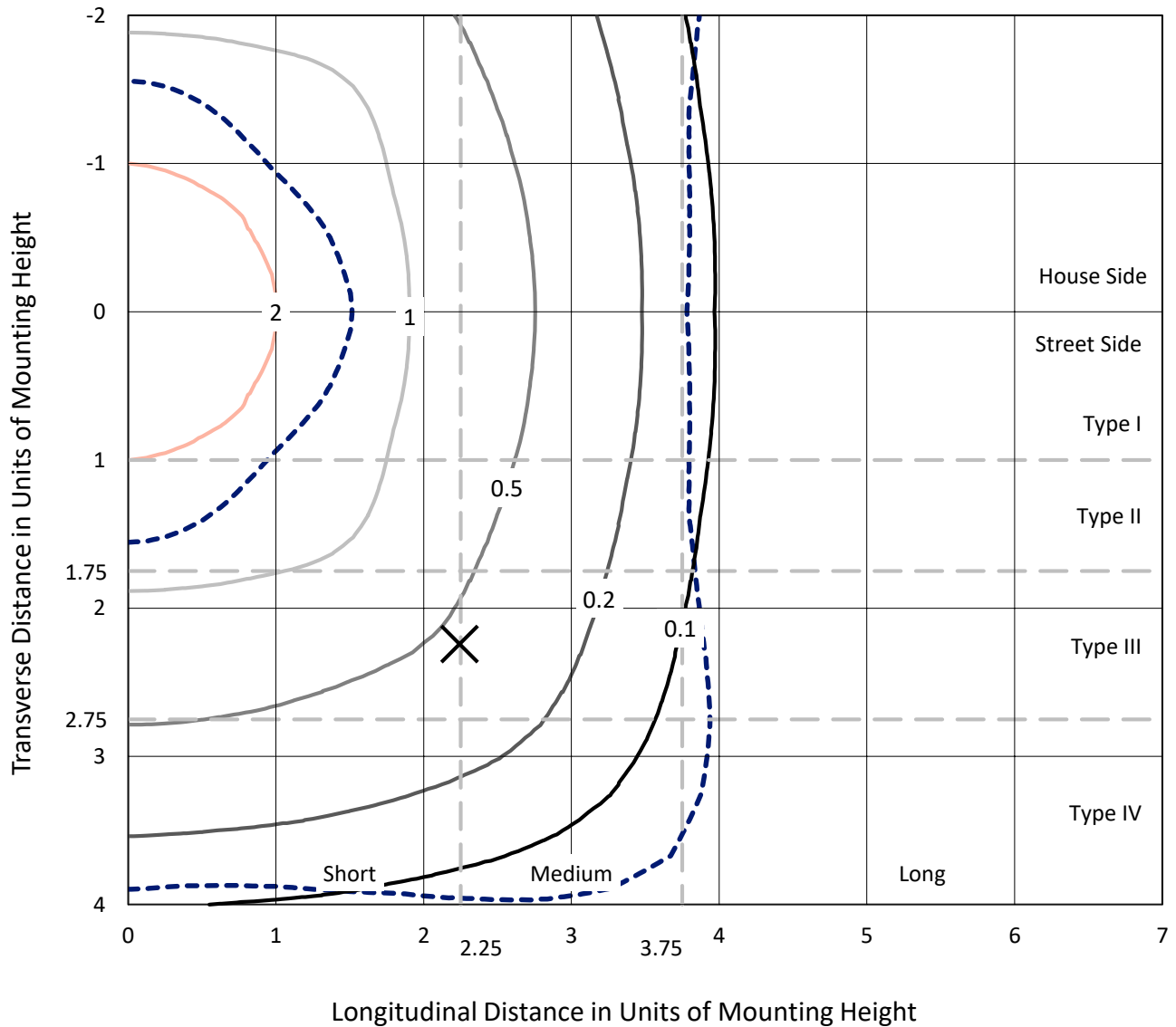


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

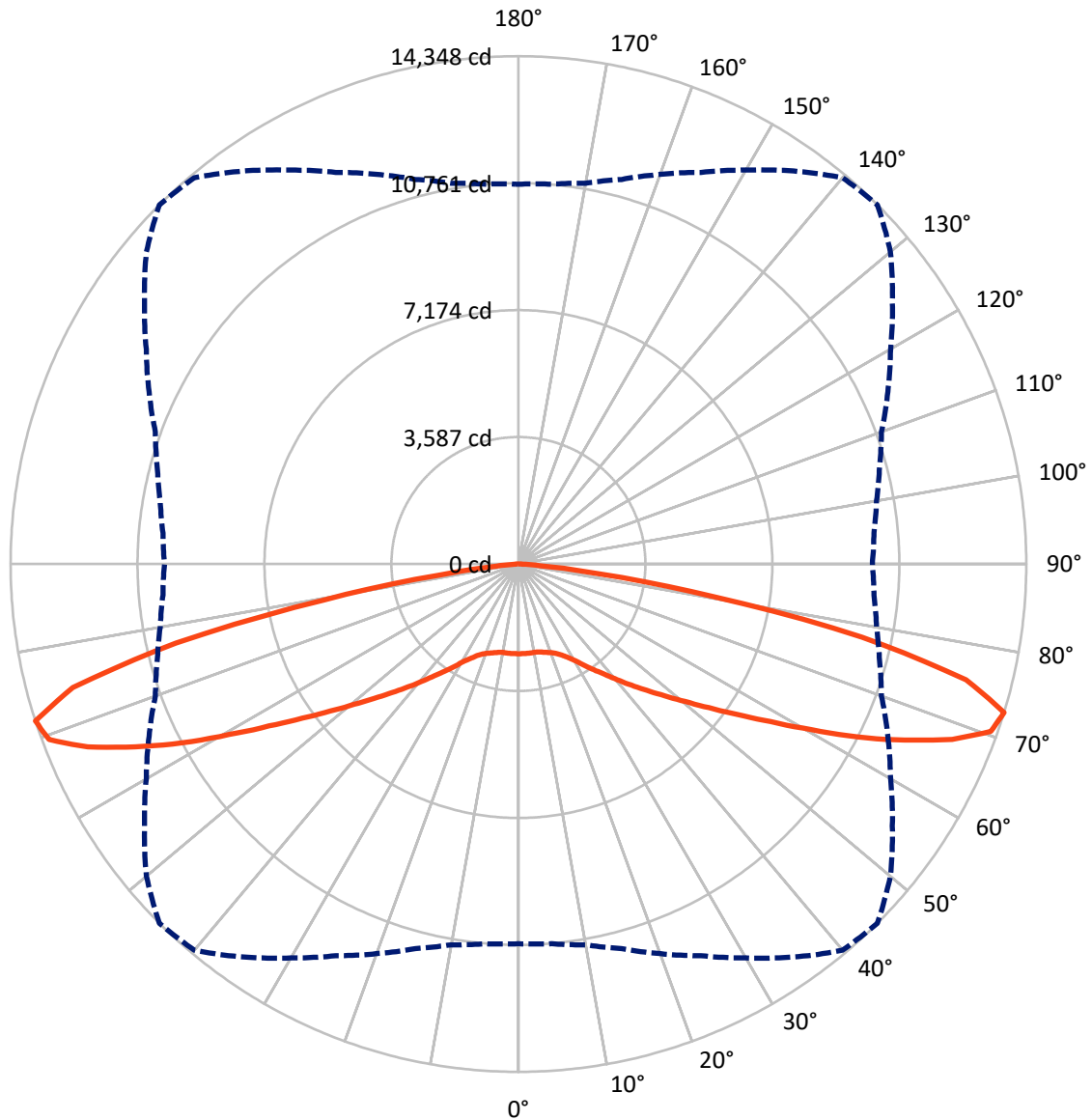


Based on 30 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17915.0	0.0	17915.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17915.0	0.0	17915.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35830.0	0.0	35830.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.3	0.7
10°-20°	735.8	2.1
20°-30°	1344.7	3.8
30°-40°	2318.5	6.5
40°-50°	3963.4	11.1
50°-60°	6424.2	17.9
60°-70°	10657.5	29.7
70°-80°	9386.8	26.2
80°-90°	756.8	2.1
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°	35830.0	100.0
0°-180°	35830.0	100.0



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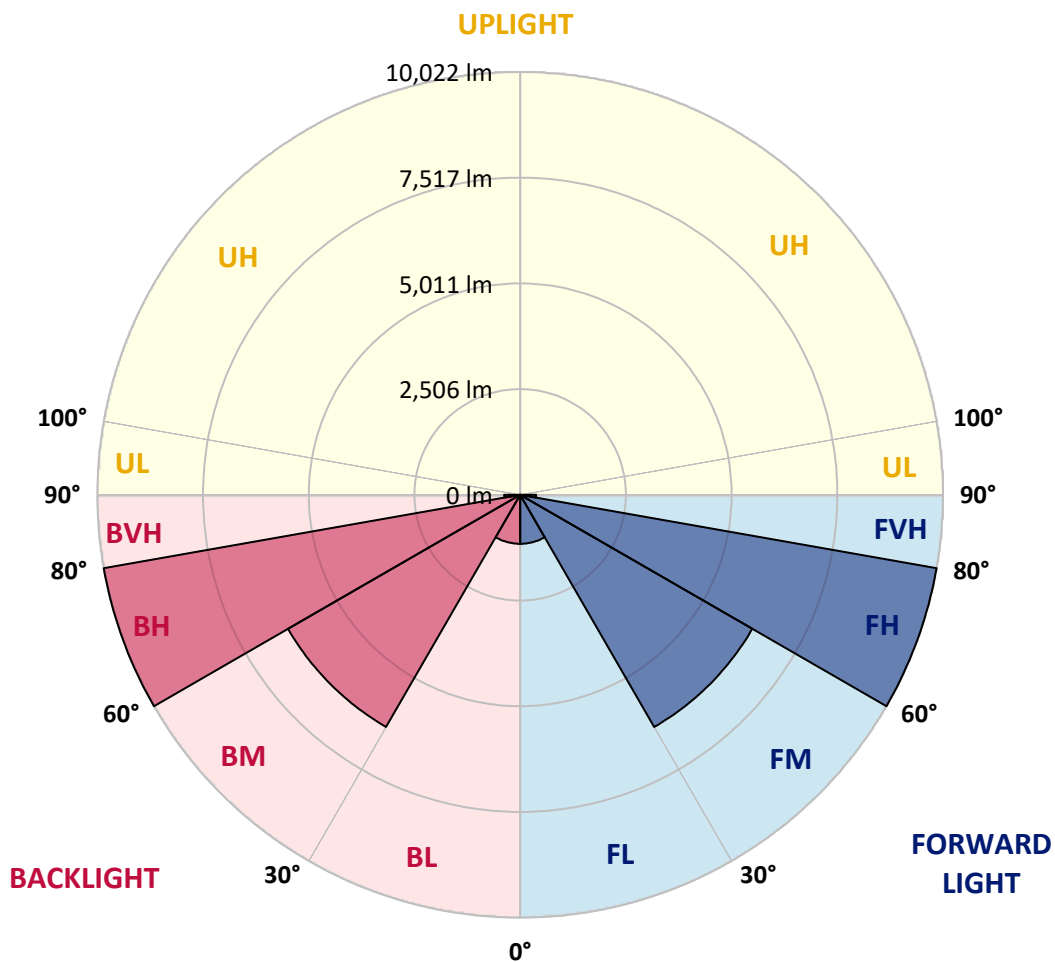
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1161.4	3.2			
FM	(30°-60°)	6353.0	17.7			
FH	(60°-80°)	10022.1	28.0			G4/12000
FVH	(80°-90°)	378.4	1.1			G3/500
BL	(0°-30°)	1161.4	3.2	B3/2500		
BM	(30°-60°)	6353.0	17.7	B4/8500		
BH	(60°-80°)	10022.1	28.0	B5		G4/12000
BVH	(80°-90°)	378.4	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3
2.5°	2537.3	2539.0	2540.6	2539.0	2539.0	2537.3	2535.7	2537.3	2535.7	2532.4	2534.0
5°	2545.5	2548.8	2548.8	2545.5	2547.2	2545.5	2542.3	2543.9	2540.6	2535.7	2535.7
7.5°	2555.4	2557.0	2557.0	2553.8	2555.4	2552.1	2548.8	2547.2	2543.9	2537.3	2532.4
10°	2570.2	2571.8	2570.2	2566.9	2566.9	2562.0	2553.8	2550.5	2543.9	2534.0	2529.1
12.5°	2586.6	2588.3	2586.6	2583.3	2581.7	2573.5	2566.9	2562.0	2557.0	2548.8	2540.6
15°	2609.6	2612.9	2609.6	2603.1	2598.1	2591.6	2588.3	2589.9	2591.6	2585.0	2576.8
17.5°	2652.4	2654.0	2649.1	2634.3	2627.7	2621.1	2621.1	2624.4	2629.3	2626.1	2617.8
20°	2731.2	2726.3	2714.8	2696.7	2688.5	2677.0	2675.4	2677.0	2677.0	2675.4	2668.8
22.5°	2829.8	2826.5	2811.8	2788.8	2777.2	2770.7	2760.8	2752.6	2751.0	2746.0	2739.5
25°	2948.2	2946.5	2928.4	2908.7	2900.5	2892.3	2884.1	2872.6	2862.7	2851.2	2844.6
27.5°	3099.3	3092.8	3066.5	3056.6	3045.1	3040.2	3028.7	3015.5	3007.3	2992.5	2984.3
30°	3265.3	3265.3	3244.0	3240.7	3240.7	3229.2	3216.0	3193.0	3178.2	3163.4	3158.5
32.5°	3431.3	3432.9	3411.6	3418.2	3423.1	3431.3	3434.6	3426.4	3416.5	3414.9	3405.0
35°	3671.2	3664.7	3643.3	3648.2	3646.6	3644.9	3644.9	3663.0	3666.3	3669.6	3649.9
37.5°	3968.7	3968.7	3947.3	3947.3	3937.4	3927.6	3914.4	3925.9	3944.0	3949.0	3935.8
40°	4308.8	4320.3	4294.1	4292.4	4295.7	4264.5	4249.7	4267.8	4279.3	4299.0	4284.2
42.5°	4709.8	4701.6	4675.3	4672.0	4653.9	4644.1	4630.9	4645.7	4663.8	4677.0	4681.9
45°	5094.4	5087.8	5058.2	5058.2	5040.1	5031.9	5038.5	5063.1	5071.4	5089.4	5107.5
47.5°	5474.0	5465.8	5446.0	5454.3	5455.9	5470.7	5492.1	5515.1	5538.1	5562.7	5570.9
50°	5861.8	5863.4	5842.1	5861.8	5886.5	5927.5	5985.1	6022.8	6070.5	6101.7	6111.6
52.5°	6215.1	6221.7	6244.7	6290.7	6340.0	6420.5	6519.1	6611.2	6690.0	6742.6	6739.3
55°	6639.1	6649.0	6704.8	6783.7	6864.2	6985.8	7132.1	7294.8	7426.3	7501.9	7454.2
57.5°	7181.4	7202.8	7265.2	7372.0	7492.0	7649.8	7850.2	8095.1	8298.9	8400.8	8323.5
60°	7925.8	7939.0	8014.6	8132.9	8277.5	8473.1	8740.9	9069.6	9357.2	9491.9	9403.2
62.5°	8906.9	8931.6	8992.4	9112.3	9260.2	9482.1	9809.1	10219.9	10578.2	10765.5	10565.0
65°	10078.6	10157.5	10208.4	10330.1	10468.1	10703.1	11044.9	11485.3	11869.9	11993.1	11761.4
67.5°	11238.8	11307.8	11396.6	11536.3	11675.9	11940.5	12257.7	12685.0	13107.3	13219.0	12859.2
70°	11746.6	11786.1	11924.1	12114.7	12382.6	12694.8	13061.3	13541.1	14063.7	14155.8	13698.9
72.5°	10729.4	10768.8	10923.3	11247.0	11713.7	12210.0	12849.3	13554.3	14244.5	14348.0	13718.6
75°	8114.8	8050.7	8279.2	8708.1	9337.5	10029.3	10923.3	11934.0	12931.5	13061.3	12310.3
77.5°	4193.8	4185.6	4358.1	4890.6	5641.6	6428.8	7413.1	8555.2	9531.4	9925.8	9314.5
80°	1181.6	1194.7	1276.9	1541.5	1980.2	2548.8	3317.9	4387.7	5186.4	5593.9	5252.1
82.5°	463.4	499.6	530.8	580.1	637.6	721.4	963.0	1433.0	1922.7	2297.4	1881.6
85°	166.0	177.5	251.4	297.4	302.4	318.8	363.2	424.0	511.1	609.7	501.2
87.5°	62.4	69.0	80.5	133.1	131.5	120.0	146.3	152.8	115.0	105.2	129.8
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°	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3	2537.3
2.5°	2530.7	2532.4	2532.4	2534.0	2535.7	2535.7	2539.0	2539.0
5°	2532.4	2532.4	2529.1	2530.7	2529.1	2529.1	2530.7	2530.7
7.5°	2529.1	2527.5	2524.2	2522.5	2519.2	2519.2	2519.2	2519.2
10°	2524.2	2522.5	2519.2	2517.6	2516.0	2516.0	2516.0	2516.0
12.5°	2537.3	2532.4	2529.1	2527.5	2527.5	2527.5	2527.5	2527.5
15°	2571.8	2560.3	2552.1	2552.1	2553.8	2557.0	2557.0	2560.3
17.5°	2614.6	2601.4	2593.2	2586.6	2589.9	2594.8	2598.1	2601.4
20°	2665.5	2658.9	2647.4	2640.9	2640.9	2647.4	2650.7	2652.4
22.5°	2736.2	2731.2	2726.3	2718.1	2718.1	2721.4	2727.9	2727.9
25°	2841.3	2838.1	2834.8	2828.2	2826.5	2826.5	2829.8	2833.1
27.5°	2972.8	2974.4	2971.2	2969.5	2964.6	2962.9	2967.9	2966.2
30°	3148.6	3156.9	3165.1	3158.5	3150.3	3145.4	3140.4	3133.9
32.5°	3386.9	3377.1	3370.5	3359.0	3344.2	3331.1	3321.2	3309.7
35°	3612.1	3595.6	3589.1	3598.9	3597.3	3589.1	3577.6	3567.7
37.5°	3888.1	3884.9	3888.1	3906.2	3902.9	3911.2	3888.1	3886.5
40°	4236.5	4239.8	4262.8	4284.2	4295.7	4307.2	4294.1	4280.9
42.5°	4640.8	4639.2	4647.4	4677.0	4696.7	4709.8	4681.9	4678.6
45°	5068.1	5056.6	5063.1	5087.8	5107.5	5122.3	5091.1	5091.1
47.5°	5538.1	5518.3	5497.0	5524.9	5536.4	5546.3	5521.6	5513.4
50°	6062.3	6021.2	5975.2	5986.7	5986.7	5983.4	5952.2	5950.5
52.5°	6663.8	6588.2	6504.3	6473.1	6455.0	6435.3	6381.1	6354.8
55°	7355.6	7242.2	7110.7	7030.2	6987.5	6933.3	6842.9	6818.2
57.5°	8164.1	7986.6	7759.9	7661.3	7565.9	7477.2	7377.0	7349.0
60°	9122.2	8860.9	8560.2	8377.8	8274.2	8188.8	8085.2	8080.3
62.5°	10190.4	9777.9	9437.7	9273.4	9197.8	9122.2	9023.6	9036.7
65°	11276.6	10846.1	10527.3	10394.1	10323.5	10261.0	10162.4	10177.2
67.5°	12348.1	11952.0	11602.0	11465.6	11386.7	11307.8	11219.1	11233.9
70°	13117.2	12625.8	12231.4	11929.0	11740.0	11526.4	11388.4	11353.9
72.5°	12897.0	12139.4	11513.3	10913.4	10561.8	10275.8	10081.9	9998.1
75°	11161.6	10126.3	9321.0	8584.8	8170.7	7833.8	7589.0	7436.1
77.5°	8289.0	7125.5	6174.0	5326.1	4655.6	4205.3	3888.1	3682.7
80°	4537.3	3451.0	2522.5	1773.2	1303.2	1083.0	956.4	895.6
82.5°	1413.3	912.1	672.1	580.1	539.0	516.0	478.2	417.4
85°	450.3	394.4	366.5	350.0	333.6	290.9	200.5	182.4
87.5°	174.2	179.1	177.5	167.6	170.9	123.3	98.6	87.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)