

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: P193363

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193363  
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-05-LED-E1-5MQ-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 27976 lumens  
Efficiency: N/A  
Efficacy: 87.4 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): 320  
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

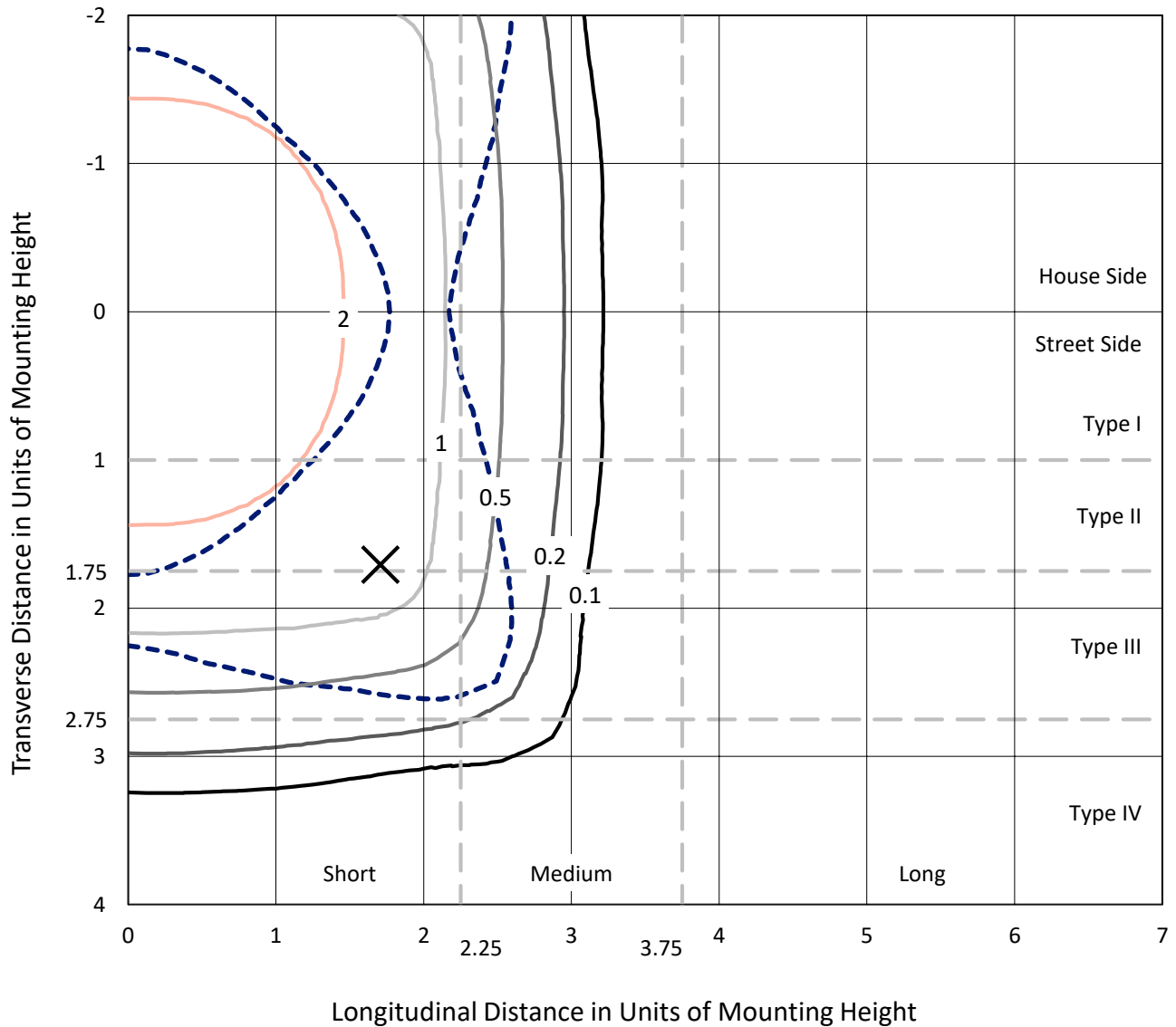


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### Iso-Footcandle Lines of Horizontal Illumination

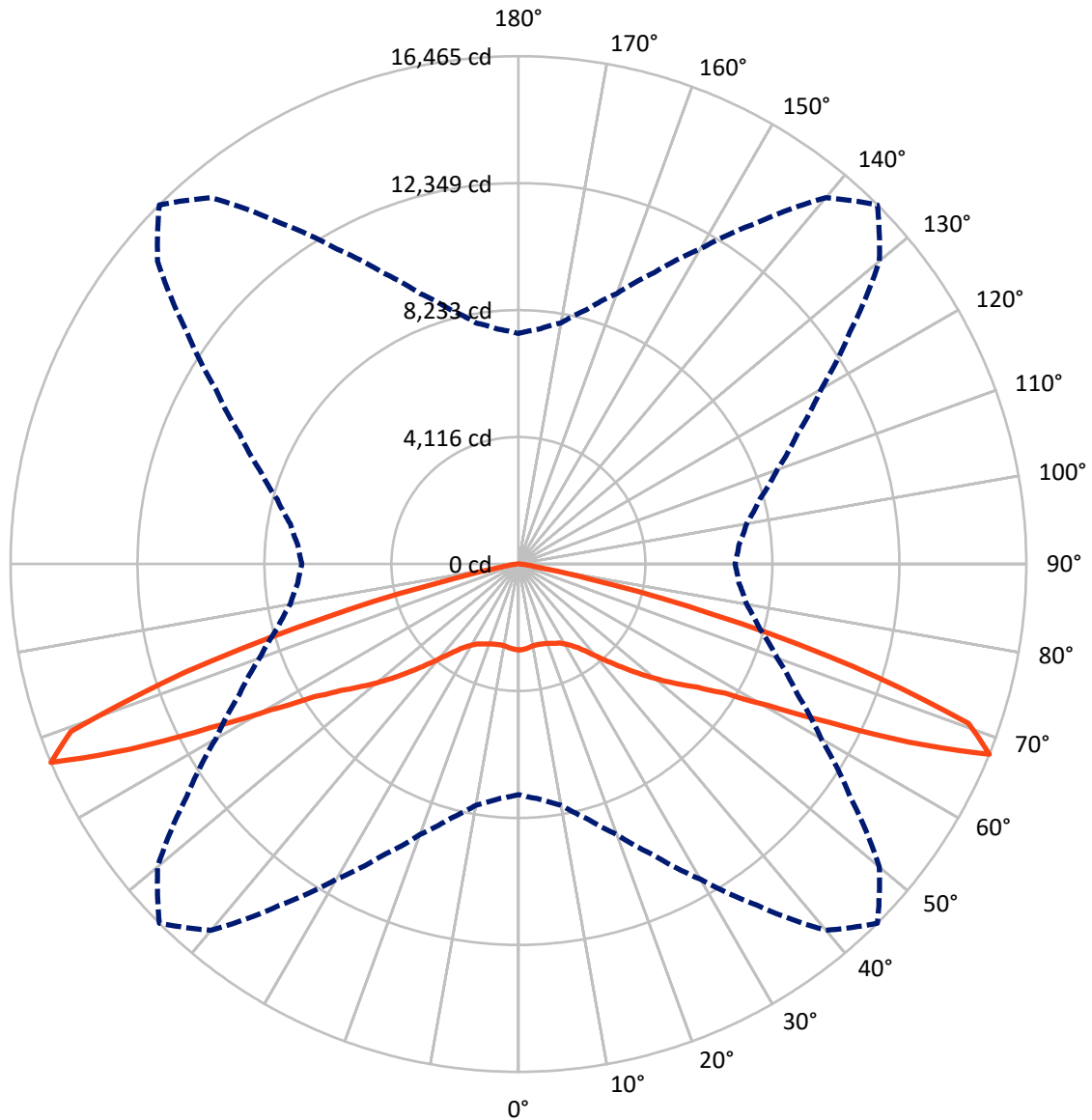
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	13988.0	0.0	13988.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13988.0	0.0	13988.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27976.0	0.0	27976.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	0.9
10°-20°	757.2	2.7
20°-30°	1287.2	4.6
30°-40°	2104.2	7.5
40°-50°	3756.4	13.4
50°-60°	6333.3	22.6
60°-70°	9828.4	35.1
70°-80°	3453.3	12.3
80°-90°	195.2	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°	27976.0	100.0
0°-180°	27976.0	100.0



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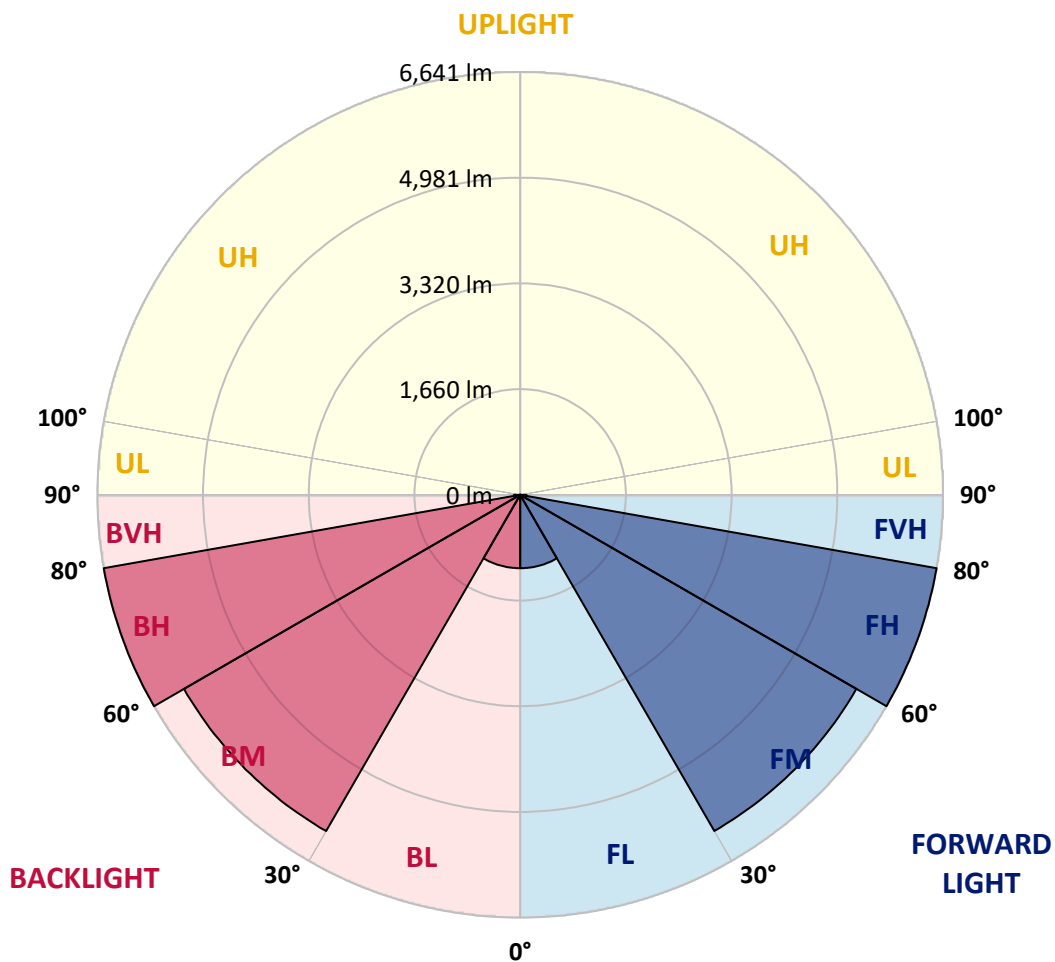
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1152.7	4.1			
FM	(30°-60°)	6096.9	21.8			
FH	(60°-80°)	6640.8	23.7			G3/7500
FVH	(80°-90°)	97.6	0.3			G1/100
BL	(0°-30°)	1152.7	4.1	B3/2500		
BM	(30°-60°)	6096.9	21.8	B4/8500		
BH	(60°-80°)	6640.8	23.7	B5		G3/7500
BVH	(80°-90°)	97.6	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°	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9
2.5°	2777.6	2780.2	2780.2	2780.2	2778.9	2778.9	2776.3	2778.9	2777.6	2773.8	2775.1
5°	2754.5	2757.0	2757.0	2755.8	2759.6	2758.3	2754.5	2757.0	2755.8	2753.2	2754.5
7.5°	2721.0	2724.9	2724.9	2723.6	2727.5	2726.2	2723.6	2724.9	2724.9	2721.0	2721.0
10°	2683.7	2686.3	2686.3	2685.0	2691.4	2691.4	2690.1	2694.0	2695.3	2691.4	2688.9
12.5°	2649.0	2652.8	2652.8	2658.0	2664.4	2667.0	2673.4	2678.6	2683.7	2682.4	2677.3
15°	2628.4	2631.0	2636.1	2642.5	2652.8	2661.8	2672.1	2683.7	2694.0	2696.6	2688.9
17.5°	2615.5	2619.4	2627.1	2636.1	2650.3	2665.7	2681.1	2696.6	2710.7	2715.9	2706.9
20°	2611.7	2614.2	2622.0	2637.4	2656.7	2679.9	2701.7	2719.7	2739.0	2745.5	2739.0
22.5°	2619.4	2624.5	2633.5	2651.6	2677.3	2706.9	2732.6	2757.0	2781.5	2793.1	2784.1
25°	2654.1	2659.3	2670.9	2694.0	2722.3	2753.2	2782.8	2811.1	2833.0	2844.5	2838.1
27.5°	2718.5	2724.9	2739.0	2762.2	2793.1	2826.5	2858.7	2881.8	2899.9	2903.7	2896.0
30°	2814.9	2829.1	2845.8	2871.6	2907.6	2935.9	2968.0	2988.6	3010.5	3010.5	3004.1
32.5°	2965.5	2979.6	2997.6	3022.1	3050.4	3081.3	3109.6	3127.6	3150.7	3152.0	3136.6
35°	3190.6	3197.0	3212.5	3227.9	3253.7	3280.7	3305.1	3316.7	3336.0	3337.3	3323.1
37.5°	3487.8	3489.1	3499.4	3504.5	3527.7	3557.3	3580.4	3588.2	3606.2	3603.6	3589.4
40°	3833.9	3840.3	3844.2	3851.9	3876.3	3904.6	3929.1	3932.9	3952.2	3948.4	3930.4
42.5°	4234.0	4236.6	4258.4	4270.0	4293.2	4307.3	4338.2	4342.1	4365.2	4354.9	4334.3
45°	4683.0	4706.2	4726.7	4749.9	4774.3	4791.1	4815.5	4810.4	4825.8	4810.4	4798.8
47.5°	5155.2	5171.9	5218.2	5254.2	5294.1	5308.3	5343.0	5327.6	5343.0	5321.1	5317.3
50°	5674.9	5704.5	5744.4	5785.6	5828.0	5851.2	5896.2	5876.9	5897.5	5876.9	5865.3
52.5°	6187.0	6194.7	6282.2	6342.6	6401.8	6428.8	6455.8	6446.8	6448.1	6446.8	6435.3
55°	6673.3	6691.3	6778.8	6861.1	6964.0	7039.9	7086.2	7081.1	7069.5	7057.9	7038.6
57.5°	7221.3	7239.3	7339.7	7441.3	7558.4	7666.5	7760.4	7856.9	7894.2	7904.5	7862.0
60°	7962.4	7961.1	8094.9	8218.4	8385.7	8546.5	8752.3	8962.0	9202.6	9314.5	9166.6
62.5°	8716.3	8747.2	8940.1	9158.9	9503.7	9839.4	10219.0	10592.1	10972.9	11282.9	10953.6
65°	8626.2	8744.6	9031.5	9526.8	10163.6	10920.1	11738.4	12604.2	13386.4	13924.2	13320.8
67.5°	7476.1	7644.6	7936.6	8538.7	9335.1	10426.1	11800.1	13512.5	15502.8	16465.1	15272.5
70°	5418.9	5609.3	5915.5	6503.4	7292.1	8329.0	9821.4	11877.3	14512.1	15482.2	14168.6
72.5°	2696.6	2799.5	2988.6	3363.0	3960.0	4801.4	6154.8	8130.9	10462.1	11352.4	10152.1
75°	916.0	963.6	995.8	1118.0	1307.1	1637.8	2310.6	3554.7	5422.8	6500.9	5345.6
77.5°	528.8	530.1	551.9	573.8	606.0	642.0	732.0	961.0	1662.2	2360.8	1720.1
80°	342.2	340.9	358.9	375.7	397.5	415.6	420.7	445.1	513.3	608.5	544.2
82.5°	177.5	199.4	239.3	261.2	302.3	310.1	299.8	290.8	307.5	319.1	326.8
85°	97.8	84.9	127.4	164.7	182.7	185.3	185.3	175.0	181.4	177.5	193.0
87.5°	45.0	41.2	50.2	81.1	86.2	73.3	77.2	68.2	48.9	47.6	54.0
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°	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9	2787.9
2.5°	2775.1	2776.3	2776.3	2780.2	2781.5	2784.1	2786.6	2787.9
5°	2753.2	2757.0	2754.5	2758.3	2758.3	2760.9	2760.9	2762.2
7.5°	2721.0	2724.9	2724.9	2724.9	2723.6	2727.5	2727.5	2727.5
10°	2687.6	2690.1	2688.9	2686.3	2683.7	2687.6	2686.3	2685.0
12.5°	2677.3	2670.9	2665.7	2663.1	2658.0	2659.3	2655.4	2655.4
15°	2683.7	2672.1	2663.1	2659.3	2654.1	2651.6	2649.0	2650.3
17.5°	2700.4	2686.3	2674.7	2668.3	2661.8	2658.0	2652.8	2654.1
20°	2730.0	2713.3	2696.6	2683.7	2672.1	2665.7	2661.8	2660.6
22.5°	2773.8	2749.3	2724.9	2705.6	2690.1	2681.1	2677.3	2674.7
25°	2823.9	2796.9	2768.6	2746.8	2731.3	2719.7	2712.0	2712.0
27.5°	2887.0	2865.1	2839.4	2813.7	2799.5	2787.9	2782.8	2780.2
30°	2992.5	2971.9	2951.3	2926.9	2908.9	2897.3	2888.3	2880.6
32.5°	3127.6	3110.8	3094.1	3076.1	3059.4	3043.9	3029.8	3023.4
35°	3318.0	3305.1	3293.5	3273.0	3266.5	3257.5	3249.8	3243.4
37.5°	3580.4	3575.3	3575.3	3553.4	3548.3	3544.4	3536.7	3538.0
40°	3925.2	3930.4	3923.9	3916.2	3912.4	3902.1	3902.1	3911.1
42.5°	4333.1	4336.9	4351.1	4338.2	4352.4	4339.5	4331.8	4338.2
45°	4806.5	4820.7	4849.0	4836.1	4845.1	4823.2	4796.2	4797.5
47.5°	5337.8	5350.7	5362.3	5353.3	5354.6	5318.5	5282.5	5273.5
50°	5889.8	5894.9	5901.3	5888.5	5891.1	5851.2	5810.0	5811.3
52.5°	6435.3	6459.7	6485.4	6450.7	6443.0	6398.0	6340.1	6316.9
55°	7059.2	7094.0	7064.4	7003.9	6943.4	6883.0	6807.1	6794.2
57.5°	7828.6	7769.4	7676.8	7562.3	7478.6	7393.7	7316.5	7284.4
60°	8899.0	8676.4	8509.2	8339.3	8232.6	8128.3	8026.7	8011.3
62.5°	10411.9	10027.3	9694.1	9342.8	9055.9	8832.1	8653.3	8603.1
65°	12308.3	11398.7	10610.1	9874.2	9234.8	8752.3	8448.7	8314.9
67.5°	13124.0	11328.0	9975.8	8931.1	8094.9	7510.8	7182.7	7019.3
70°	11532.5	9394.3	7923.8	6877.8	6116.2	5493.5	5196.3	5021.4
72.5°	7934.1	5976.0	4725.5	3857.0	3248.5	2727.5	2521.6	2506.2
75°	3562.4	2359.5	1626.2	1253.1	1055.0	917.3	874.8	842.7
77.5°	997.1	737.2	657.4	615.0	573.8	526.2	508.2	512.0
80°	485.0	458.0	440.0	413.0	375.7	335.8	317.8	325.5
82.5°	321.6	317.8	329.4	310.1	256.0	217.4	182.7	167.2
85°	195.6	198.1	202.0	203.3	172.4	120.9	82.3	92.6
87.5°	77.2	88.8	96.5	100.3	93.9	57.9	46.3	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)