

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: P190894

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190894  
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-06-LED-E1-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38359.6 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 333  
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

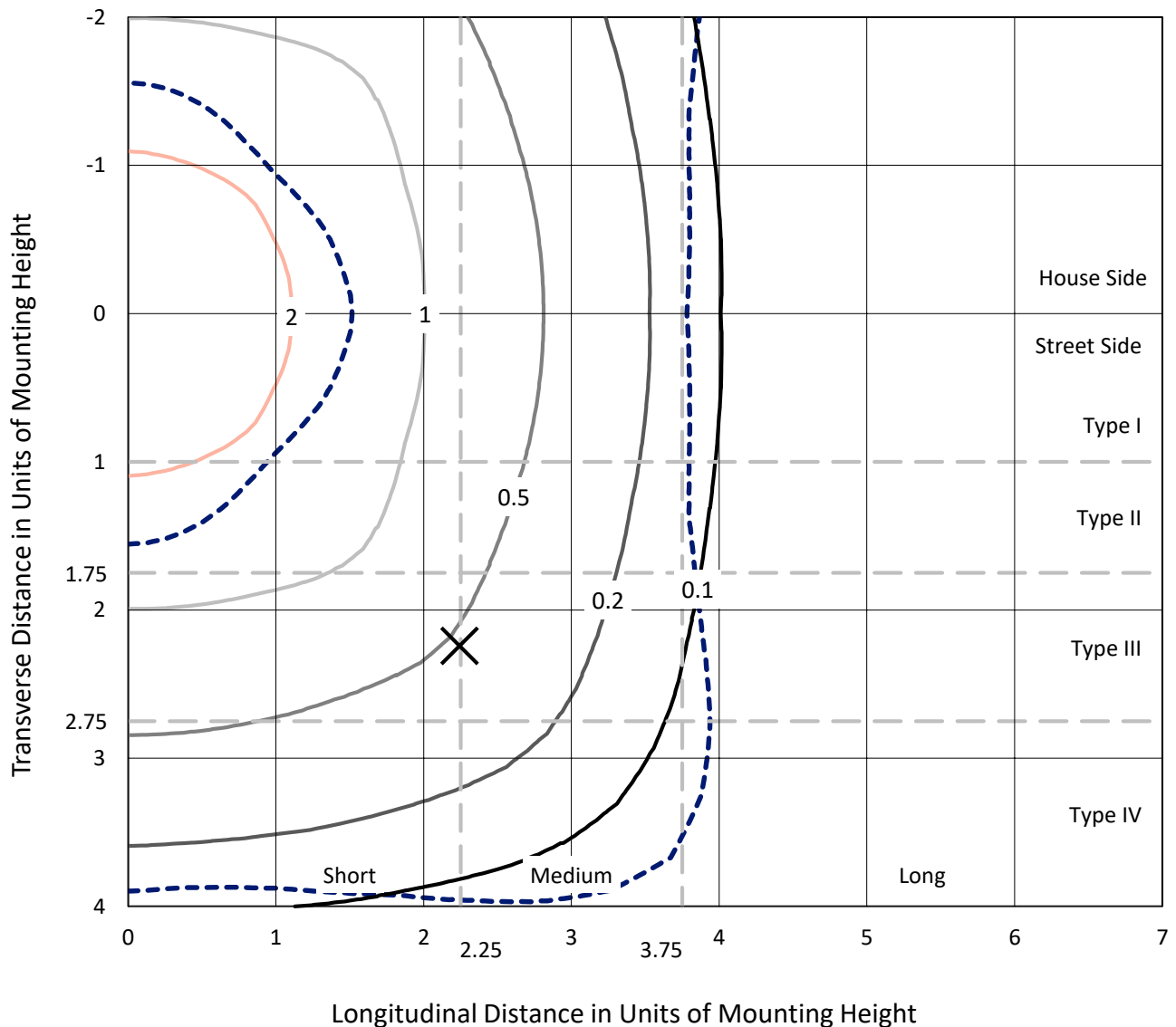


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

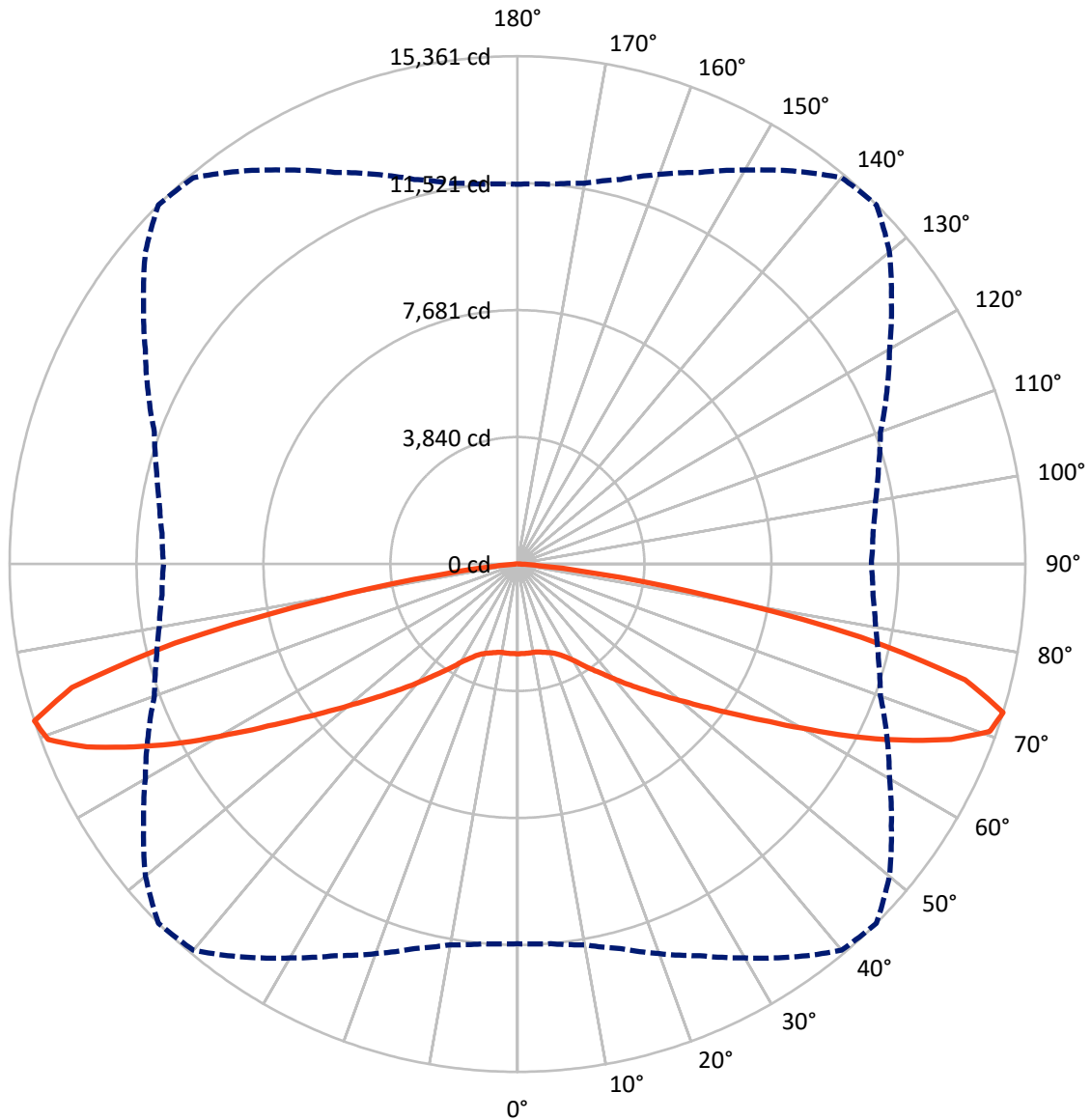


Based on 30 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Semi-Cutoff

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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	19179.8	0.0	19179.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19179.8	0.0	19179.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38359.6	0.0	38359.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.4	0.7
10°-20°	787.8	2.1
20°-30°	1439.6	3.8
30°-40°	2482.2	6.5
40°-50°	4243.2	11.1
50°-60°	6877.7	17.9
60°-70°	11409.9	29.7
70°-80°	10049.5	26.2
80°-90°	810.3	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°	38359.6	100.0
0°-180°	38359.6	100.0



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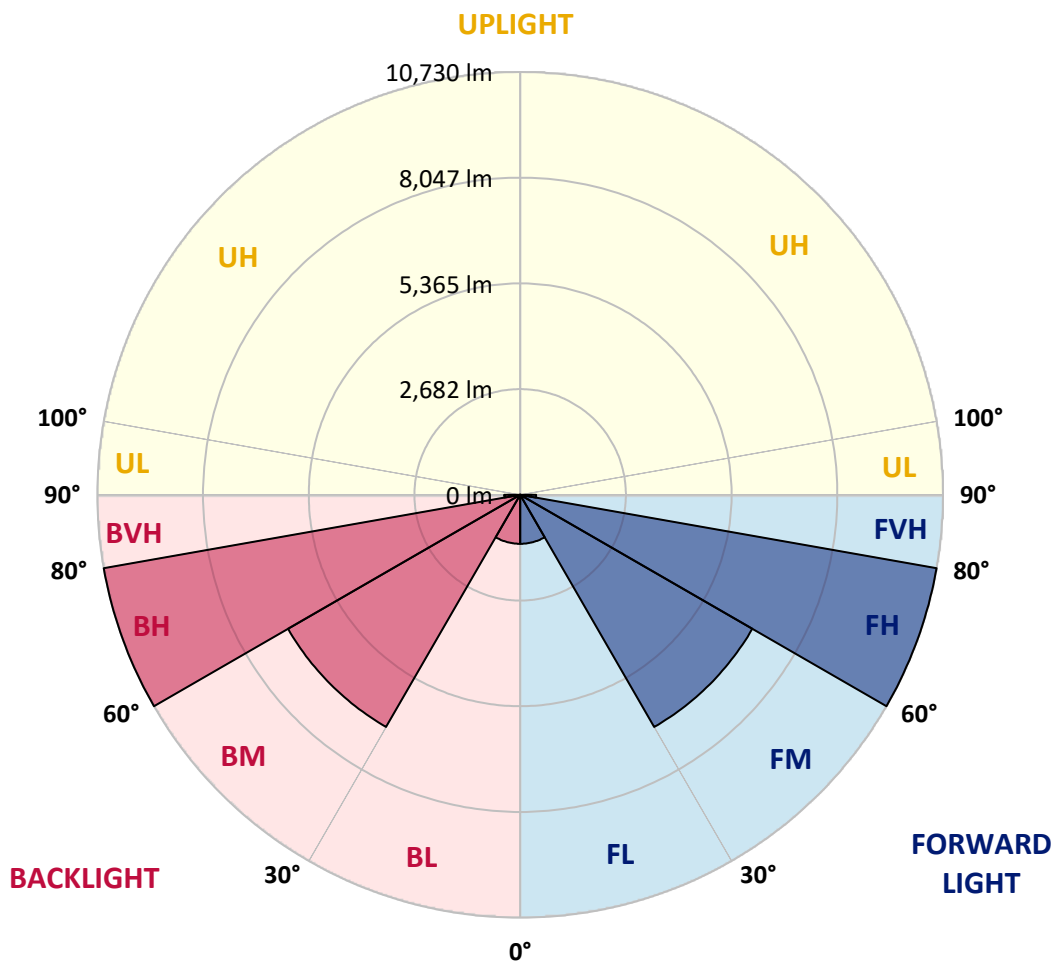
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.4	3.2			
FM	(30°-60°)	6801.6	17.7			
FH	(60°-80°)	10729.7	28.0			G4/12000
FVH	(80°-90°)	405.1	1.1			G3/500
BL	(0°-30°)	1243.4	3.2	B3/2500		
BM	(30°-60°)	6801.6	17.7	B4/8500		
BH	(60°-80°)	10729.7	28.0	B5		G4/12000
BVH	(80°-90°)	405.1	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°	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4
2.5°	2716.4	2718.2	2720.0	2718.2	2718.2	2716.4	2714.7	2716.4	2714.7	2711.2	2713.0
5°	2725.2	2728.8	2728.8	2725.2	2727.0	2725.2	2721.8	2723.5	2720.0	2714.7	2714.7
7.5°	2735.8	2737.6	2737.6	2734.0	2735.8	2732.3	2728.8	2727.0	2723.5	2716.4	2711.2
10°	2751.6	2753.4	2751.6	2748.2	2748.2	2742.8	2734.0	2730.6	2723.5	2713.0	2707.6
12.5°	2769.2	2771.0	2769.2	2765.8	2763.9	2755.1	2748.2	2742.8	2737.6	2728.8	2720.0
15°	2793.9	2797.4	2793.9	2786.8	2781.5	2774.5	2771.0	2772.7	2774.5	2767.5	2758.7
17.5°	2839.6	2841.3	2836.1	2820.3	2813.2	2806.2	2806.2	2809.7	2815.0	2811.5	2802.7
20°	2924.1	2918.8	2906.5	2887.1	2878.3	2866.0	2864.3	2866.0	2866.0	2864.3	2857.2
22.5°	3029.7	3026.1	3010.2	2985.7	2973.3	2966.3	2955.7	2946.9	2945.2	2939.9	2932.9
25°	3156.3	3154.6	3135.1	3114.1	3105.3	3096.5	3087.7	3075.4	3064.9	3052.5	3045.4
27.5°	3318.1	3311.1	3283.0	3272.4	3260.1	3254.8	3242.5	3228.4	3219.6	3203.8	3195.0
30°	3495.8	3495.8	3473.0	3469.4	3469.4	3457.2	3443.0	3418.4	3402.6	3386.8	3381.5
32.5°	3673.5	3675.4	3652.4	3659.5	3664.7	3673.5	3677.1	3668.3	3657.8	3655.9	3645.4
35°	3930.4	3923.4	3900.5	3905.8	3904.0	3902.3	3902.3	3921.6	3925.2	3928.6	3907.6
37.5°	4248.8	4248.8	4226.0	4226.0	4215.5	4204.8	4190.8	4203.1	4222.4	4227.8	4213.6
40°	4613.1	4625.4	4597.2	4595.5	4599.0	4565.5	4549.7	4569.1	4581.4	4602.5	4586.7
42.5°	5042.3	5033.5	5005.4	5001.9	4982.5	4972.0	4957.9	4973.7	4993.1	5007.1	5012.5
45°	5454.1	5447.0	5415.3	5415.3	5396.0	5387.2	5394.2	5420.6	5429.4	5448.7	5468.1
47.5°	5860.5	5851.7	5830.5	5839.3	5841.0	5856.9	5879.8	5904.5	5929.0	5955.4	5964.2
50°	6275.7	6277.4	6254.5	6275.7	6302.0	6346.0	6407.6	6448.1	6499.1	6532.6	6543.1
52.5°	6653.9	6660.9	6685.6	6734.8	6787.6	6873.8	6979.4	7077.9	7162.4	7218.7	7215.2
55°	7107.9	7118.4	7178.3	7262.6	7348.9	7479.1	7635.6	7809.8	7950.6	8031.5	7980.4
57.5°	7688.4	7711.3	7778.1	7892.5	8021.0	8189.8	8404.5	8666.6	8884.7	8993.9	8911.1
60°	8485.4	8499.5	8580.4	8707.1	8861.9	9071.3	9358.1	9710.0	10017.9	10162.1	10067.1
62.5°	9535.7	9562.1	9627.2	9755.7	9914.0	10151.6	10501.6	10941.5	11325.0	11525.6	11311.0
65°	10790.2	10874.6	10929.2	11059.3	11207.1	11458.8	11824.7	12296.2	12707.9	12839.9	12591.8
67.5°	12032.3	12106.2	12201.1	12350.7	12500.3	12783.5	13123.1	13580.5	14032.7	14152.3	13767.0
70°	12576.0	12618.2	12765.9	12970.0	13256.8	13591.1	13983.4	14497.2	15056.6	15155.1	14666.0
72.5°	11486.9	11529.1	11694.5	12041.1	12540.8	13072.1	13756.4	14511.3	15250.2	15361.0	14687.2
75°	8687.7	8619.1	8863.7	9322.9	9996.7	10737.4	11694.5	12776.5	13844.4	13983.4	13179.4
77.5°	4489.9	4481.1	4665.9	5235.9	6039.9	6882.6	7936.5	9159.3	10204.3	10626.5	9972.0
80°	1265.0	1279.1	1367.1	1650.3	2120.1	2728.8	3552.2	4697.5	5552.6	5988.9	5623.0
82.5°	496.1	534.8	568.2	621.0	682.6	772.3	1031.0	1534.1	2058.5	2459.6	2014.5
85°	177.7	190.0	269.1	318.4	323.8	341.4	388.8	453.9	547.2	652.7	536.6
87.5°	66.9	73.9	86.2	142.5	140.8	128.5	156.6	163.6	123.2	112.6	139.0
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°	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4	2716.4
2.5°	2709.4	2711.2	2711.2	2713.0	2714.7	2714.7	2718.2	2718.2
5°	2711.2	2711.2	2707.6	2709.4	2707.6	2707.6	2709.4	2709.4
7.5°	2707.6	2705.9	2702.4	2700.6	2697.1	2697.1	2697.1	2697.1
10°	2702.4	2700.6	2697.1	2695.4	2693.6	2693.6	2693.6	2693.6
12.5°	2716.4	2711.2	2707.6	2705.9	2705.9	2705.9	2705.9	2705.9
15°	2753.4	2741.1	2732.3	2732.3	2734.0	2737.6	2737.6	2741.1
17.5°	2799.1	2785.1	2776.3	2769.2	2772.7	2778.0	2781.5	2785.1
20°	2853.7	2846.7	2834.3	2827.3	2827.3	2834.3	2837.9	2839.6
22.5°	2929.3	2924.1	2918.8	2910.0	2910.0	2913.5	2920.5	2920.5
25°	3041.9	3038.5	3034.9	3027.8	3026.1	3026.1	3029.7	3033.2
27.5°	3182.7	3184.4	3181.0	3179.1	3173.9	3172.2	3177.4	3175.6
30°	3370.9	3379.7	3388.5	3381.5	3372.7	3367.5	3362.1	3355.1
32.5°	3626.1	3615.5	3608.5	3596.2	3580.3	3566.2	3555.7	3543.4
35°	3867.1	3849.5	3842.4	3853.0	3851.2	3842.4	3830.1	3819.6
37.5°	4162.7	4159.1	4162.7	4182.0	4178.4	4187.2	4162.7	4160.9
40°	4535.7	4539.1	4563.8	4586.7	4599.0	4611.3	4597.2	4583.1
42.5°	4968.5	4966.7	4975.5	5007.1	5028.2	5042.3	5012.5	5008.9
45°	5425.8	5413.6	5420.6	5447.0	5468.1	5483.9	5450.5	5450.5
47.5°	5929.0	5908.0	5885.0	5915.0	5927.3	5937.8	5911.4	5902.6
50°	6490.3	6446.3	6397.0	6409.4	6409.4	6405.8	6372.4	6370.6
52.5°	7134.3	7053.2	6963.5	6930.2	6910.7	6889.7	6831.6	6803.4
55°	7874.9	7753.6	7612.8	7526.6	7480.8	7422.7	7326.0	7299.6
57.5°	8740.5	8550.5	8307.7	8202.1	8100.1	8005.1	7897.8	7867.9
60°	9766.2	9486.5	9164.5	8969.2	8858.4	8766.9	8656.1	8650.8
62.5°	10909.8	10468.3	10104.0	9928.0	9847.1	9766.2	9660.6	9674.8
65°	12072.8	11611.8	11270.5	11128.0	11052.4	10985.5	10879.9	10895.8
67.5°	13219.9	12795.9	12421.1	12275.1	12190.6	12106.2	12011.2	12027.0
70°	14043.3	13517.2	13094.9	12771.2	12568.9	12340.2	12192.3	12155.4
72.5°	13807.5	12996.4	12326.1	11683.9	11307.4	11001.3	10793.7	10704.0
75°	11949.6	10841.2	9979.1	9190.9	8747.6	8386.9	8124.8	7961.1
77.5°	8874.2	7628.6	6609.9	5702.1	4984.3	4502.2	4162.7	3942.8
80°	4857.6	3694.7	2700.6	1898.4	1395.2	1159.4	1024.0	958.8
82.5°	1513.0	976.4	719.5	621.0	577.0	552.4	512.0	446.9
85°	482.1	422.3	392.3	374.7	357.1	311.4	214.6	195.3
87.5°	186.5	191.8	190.0	179.4	183.0	132.0	105.6	93.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)