

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: P193384

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24211 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 249  
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

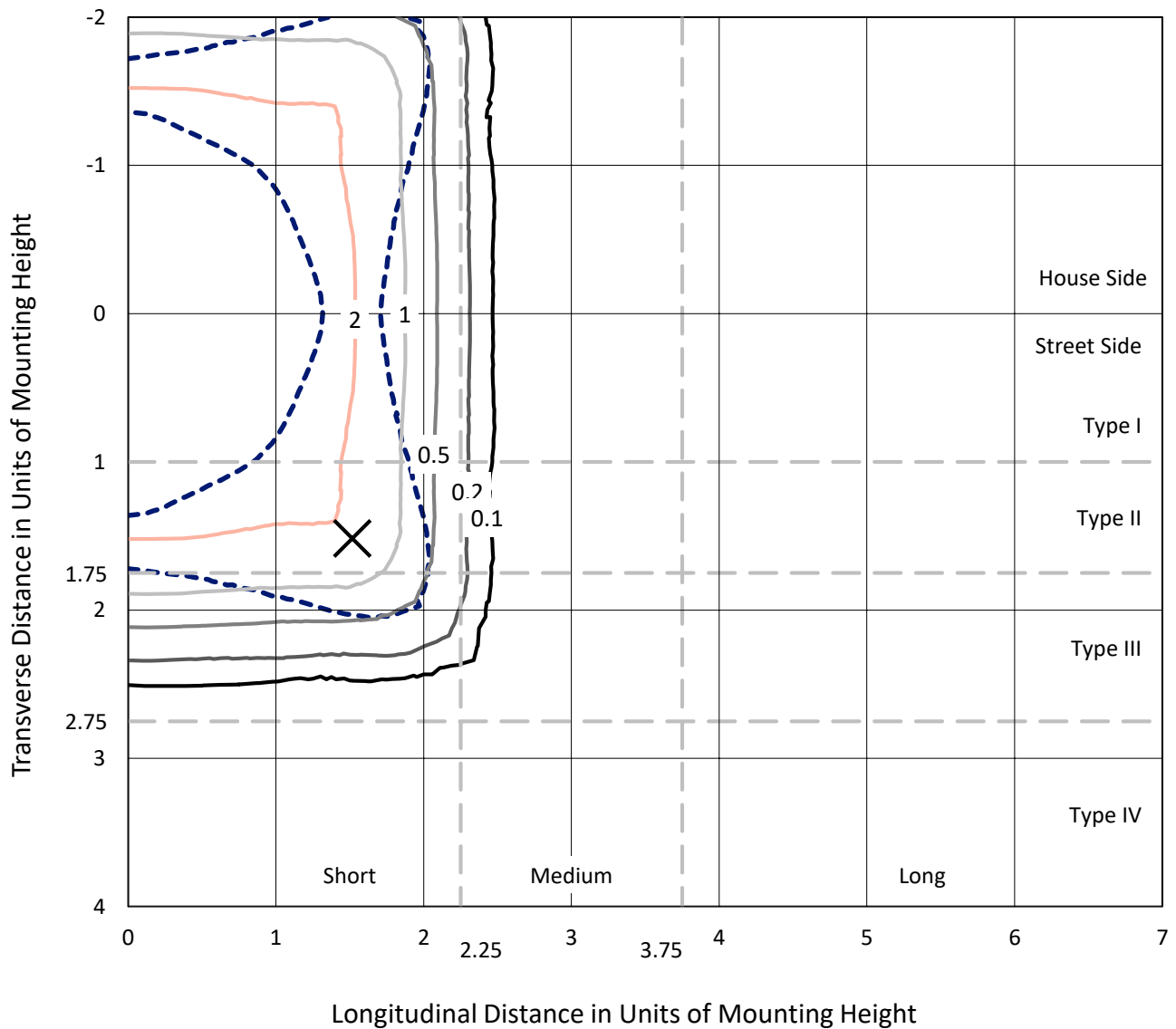


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

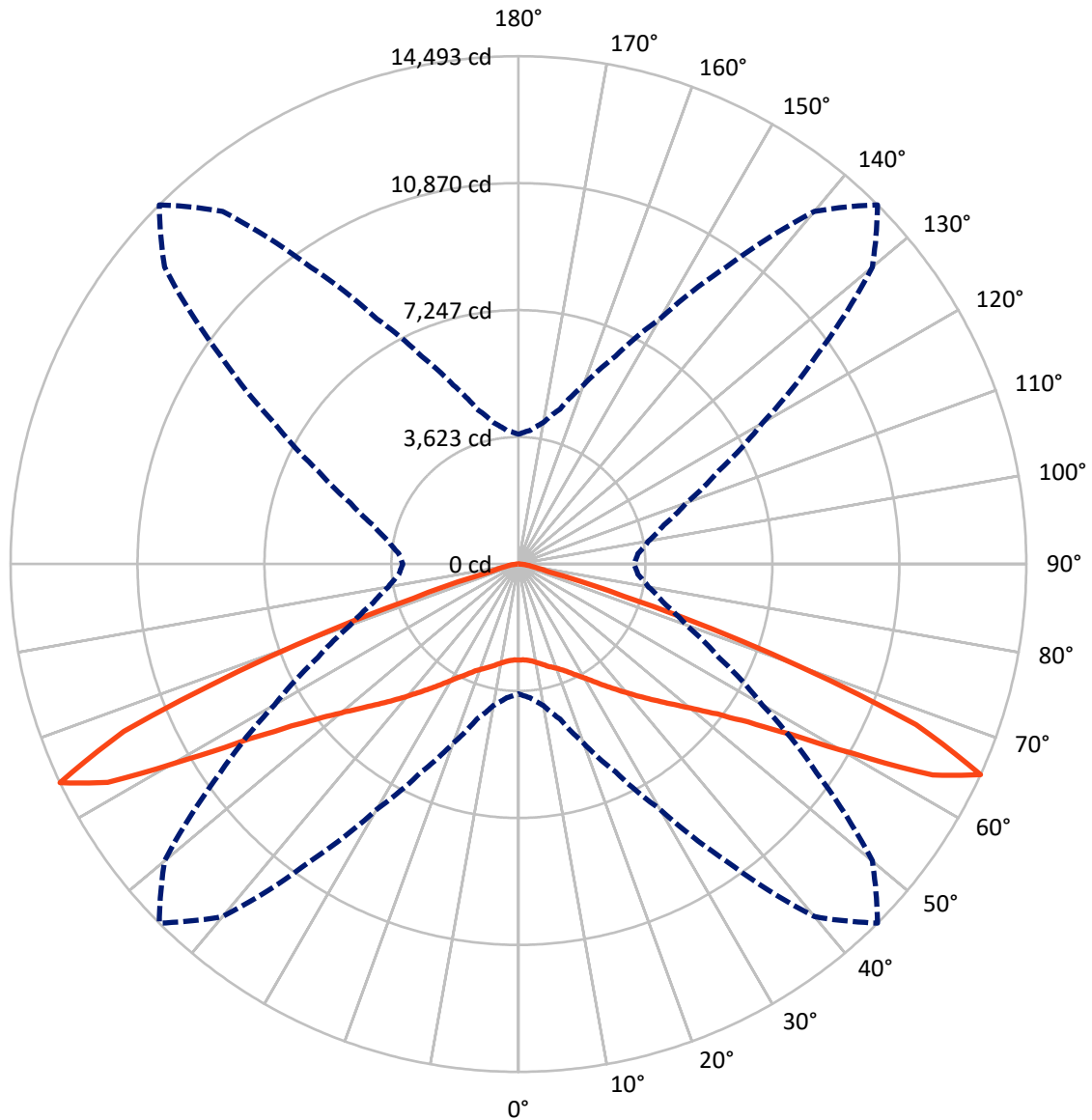


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12105.5	0.0	12105.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12105.5	0.0	12105.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24211.0	0.0	24211.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.0	1.1
10°-20°	856.4	3.5
20°-30°	1601.2	6.6
30°-40°	2708.1	11.2
40°-50°	4428.1	18.3
50°-60°	7041.3	29.1
60°-70°	6364.9	26.3
70°-80°	805.5	3.3
80°-90°	138.6	0.6
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°	24211.0	100.0
0°-180°	24211.0	100.0



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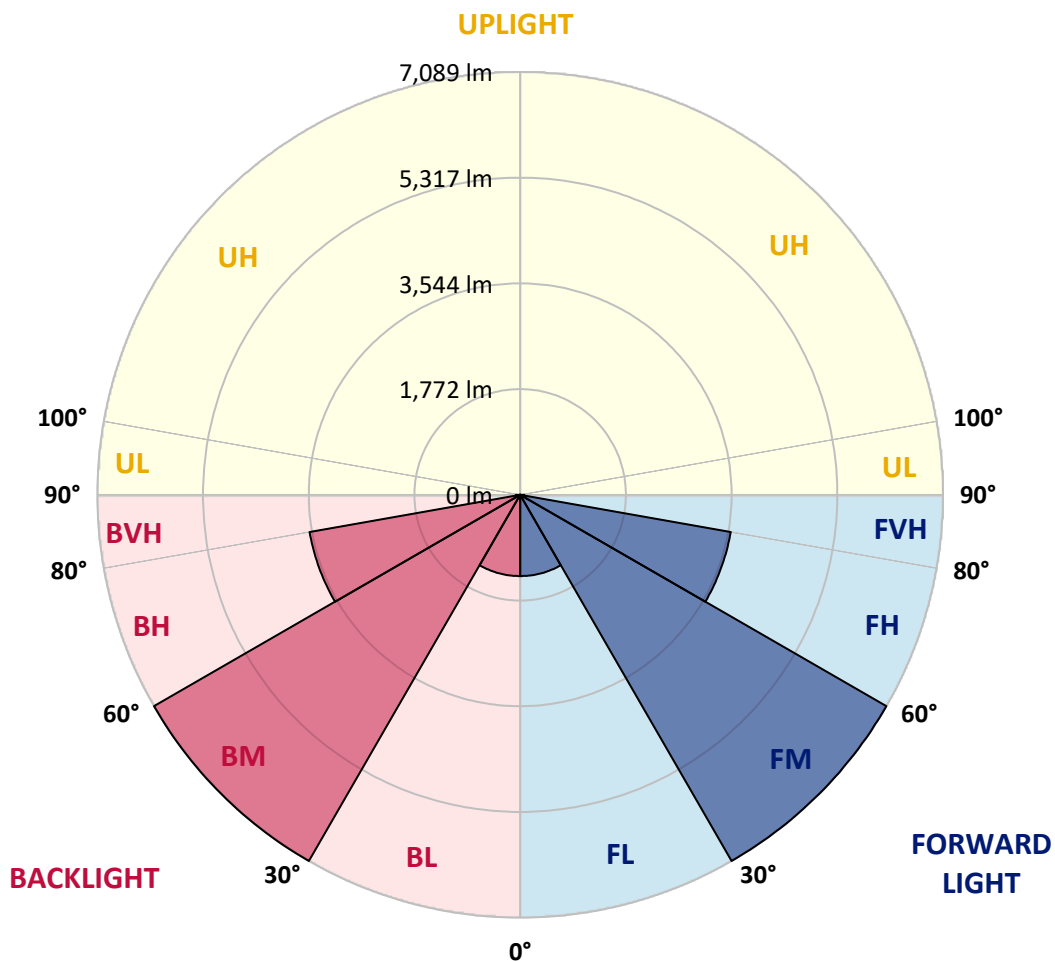
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.3	5.6			
FM	(30°-60°)	7088.7	29.3			
FH	(60°-80°)	3585.2	14.8			G2/5000
FVH	(80°-90°)	69.3	0.3			G1/100
BL	(0°-30°)	1362.3	5.6	B3/2500		
BM	(30°-60°)	7088.7	29.3	B4/8500		
BH	(60°-80°)	3585.2	14.8	B4/5000		G2/5000
BVH	(80°-90°)	69.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	2741.8	2744.0	2746.3	2744.0	2746.3	2742.9	2740.6	2744.0	2740.6	2737.2	2739.5
5°	2765.6	2766.7	2766.7	2763.3	2766.7	2764.4	2761.0	2765.6	2762.2	2758.8	2761.0
7.5°	2805.3	2809.8	2806.4	2803.0	2805.3	2803.0	2800.7	2801.9	2800.7	2797.3	2798.5
10°	2858.5	2861.9	2859.7	2858.5	2860.8	2859.7	2857.4	2856.3	2857.4	2854.0	2854.0
12.5°	2923.2	2922.0	2920.9	2922.0	2925.4	2925.4	2924.3	2925.4	2927.7	2928.8	2926.6
15°	2986.7	2988.9	2988.9	2988.9	2995.7	3001.4	3004.8	3007.1	3011.6	3012.8	3008.2
17.5°	3066.0	3066.0	3064.9	3066.0	3072.9	3081.9	3085.3	3089.9	3094.4	3097.8	3092.1
20°	3154.5	3156.8	3156.8	3159.0	3168.1	3178.3	3178.3	3180.6	3178.3	3180.6	3177.2
22.5°	3262.2	3269.0	3269.0	3270.1	3279.2	3291.7	3288.3	3291.7	3286.0	3290.6	3286.0
25°	3402.8	3413.0	3410.8	3410.8	3417.6	3425.5	3426.6	3433.4	3432.3	3438.0	3434.6
27.5°	3561.6	3577.4	3582.0	3580.8	3585.4	3593.3	3595.6	3603.5	3599.0	3603.5	3601.2
30°	3752.1	3758.9	3767.9	3771.3	3777.0	3784.9	3784.9	3786.1	3780.4	3787.2	3790.6
32.5°	3949.4	3961.8	3970.9	3991.3	4001.5	4007.2	4006.0	4008.3	4002.6	4011.7	4018.5
35°	4210.1	4219.2	4234.0	4249.8	4263.4	4262.3	4258.9	4260.0	4260.0	4268.0	4274.8
37.5°	4524.2	4526.5	4545.8	4568.5	4575.3	4568.5	4548.0	4543.5	4533.3	4543.5	4554.9
40°	4856.5	4864.4	4903.0	4917.7	4921.1	4908.6	4879.1	4862.1	4839.5	4851.9	4867.8
42.5°	5204.6	5220.4	5255.6	5281.7	5293.0	5285.1	5244.3	5218.2	5188.7	5195.5	5211.4
45°	5590.1	5609.4	5659.3	5684.2	5705.8	5693.3	5653.6	5613.9	5567.4	5570.8	5595.8
47.5°	6021.0	6040.3	6104.9	6146.8	6158.2	6155.9	6111.7	6057.3	5993.8	5991.5	6013.0
50°	6504.0	6523.3	6603.8	6668.4	6701.3	6697.9	6645.8	6568.6	6491.5	6492.7	6519.9
52.5°	6975.7	6999.5	7083.4	7194.6	7259.2	7305.7	7273.9	7201.4	7107.2	7109.5	7134.5
55°	7417.9	7457.6	7554.0	7704.8	7825.0	7955.4	7992.8	7990.6	7933.9	7949.7	7974.7
57.5°	7632.2	7691.2	7839.7	8077.9	8322.8	8588.1	8812.6	8980.4	9051.9	9159.6	9134.6
60°	7226.3	7320.4	7539.3	7889.6	8373.8	8927.1	9520.2	10099.6	10594.0	10967.0	10752.7
62.5°	5916.7	6039.1	6304.5	6753.5	7486.0	8371.5	9506.6	10876.3	12368.5	13268.8	12625.9
65°	3702.2	3829.2	4099.0	4579.8	5437.0	6538.0	8077.9	10347.9	13136.2	14493.4	13184.9
67.5°	1443.4	1512.6	1658.9	1966.2	2610.2	3589.9	5135.4	7711.6	11046.4	12235.8	10841.2
70°	723.4	730.2	757.4	814.1	952.5	1237.1	1882.3	3575.2	6335.1	7651.5	6107.2
72.5°	522.7	523.9	537.5	562.4	606.6	670.1	792.6	1094.2	2060.3	3148.8	1931.0
75°	400.3	404.8	412.7	426.3	450.2	481.9	526.1	630.4	781.3	906.0	762.0
77.5°	308.4	317.5	323.2	335.6	350.4	371.9	384.4	424.1	493.2	519.3	511.4
80°	234.7	242.7	255.1	265.3	275.5	285.7	281.2	299.3	335.6	357.2	345.8
82.5°	149.7	158.7	195.0	204.1	208.6	215.4	207.5	208.6	224.5	238.1	224.5
85°	96.4	102.1	123.6	134.9	136.1	140.6	137.2	129.3	129.3	117.9	132.7
87.5°	44.2	45.4	55.6	65.8	68.0	61.2	60.1	57.8	46.5	44.2	47.6
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°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	2738.4	2740.6	2741.8	2745.2	2746.3	2746.3	2747.4	2749.7
5°	2759.9	2763.3	2764.4	2769.0	2770.1	2769.0	2771.2	2772.4
7.5°	2798.5	2804.1	2806.4	2810.9	2807.5	2812.1	2813.2	2813.2
10°	2855.1	2860.8	2861.9	2866.5	2864.2	2866.5	2866.5	2864.2
12.5°	2930.0	2931.1	2927.7	2931.1	2926.6	2928.8	2925.4	2923.2
15°	3012.8	3009.4	3001.4	3001.4	2994.6	2995.7	2994.6	2993.5
17.5°	3093.3	3086.5	3080.8	3078.5	3072.9	3071.7	3068.3	3068.3
20°	3181.7	3178.3	3174.9	3170.4	3164.7	3159.0	3157.9	3160.2
22.5°	3288.3	3287.2	3287.2	3284.9	3277.0	3271.3	3267.9	3267.9
25°	3431.2	3421.0	3421.0	3419.8	3416.4	3413.0	3406.2	3409.6
27.5°	3592.2	3586.5	3591.0	3589.9	3586.5	3586.5	3582.0	3582.0
30°	3790.6	3788.3	3795.1	3789.5	3778.1	3777.0	3772.5	3766.8
32.5°	4019.7	4017.4	4027.6	4020.8	4002.6	3992.4	3983.4	3978.8
35°	4274.8	4275.9	4288.4	4283.9	4263.4	4256.6	4240.8	4238.5
37.5°	4553.7	4571.9	4593.4	4597.9	4580.9	4576.4	4559.4	4550.3
40°	4881.4	4905.2	4938.1	4946.0	4927.9	4924.5	4900.7	4888.2
42.5°	5230.7	5271.5	5312.3	5319.1	5301.0	5282.8	5260.1	5251.1
45°	5620.7	5669.5	5722.8	5736.4	5709.2	5687.6	5658.1	5658.1
47.5°	6058.4	6119.6	6179.7	6217.1	6192.2	6169.5	6134.4	6111.7
50°	6575.5	6659.4	6737.6	6776.1	6736.5	6693.4	6632.1	6611.7
52.5°	7224.0	7314.7	7382.8	7362.4	7301.1	7241.0	7174.1	7146.9
55°	8051.8	8082.4	8082.4	8005.3	7882.8	7781.9	7676.5	7641.3
57.5°	9087.0	8969.1	8787.7	8557.5	8268.4	8016.6	7846.5	7766.0
60°	10303.7	9736.7	9096.1	8466.8	7949.7	7523.4	7270.5	7154.9
62.5°	11114.4	9631.3	8347.7	7337.4	6593.6	6079.9	5730.7	5594.6
65°	10387.6	8032.5	6313.5	5104.8	4294.1	3771.3	3425.5	3298.5
67.5°	7608.4	5033.4	3362.0	2409.5	1765.5	1408.3	1266.6	1207.6
70°	3415.3	1772.3	1086.3	848.2	731.4	671.3	645.2	636.1
72.5°	1029.6	745.0	628.2	566.9	520.5	491.0	469.4	467.2
75°	621.4	517.1	459.2	422.9	393.5	369.6	358.3	354.9
77.5°	434.3	379.9	352.6	326.6	303.9	285.7	275.5	267.6
80°	305.0	278.9	266.5	251.7	237.0	220.0	205.2	198.4
82.5°	204.1	198.4	198.4	189.4	176.9	161.0	131.5	124.7
85°	131.5	130.4	132.7	129.3	120.2	103.2	85.0	80.5
87.5°	61.2	62.4	69.2	68.0	65.8	54.4	43.1	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)