

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: P269287

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269287  
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-05-LED-E1-5NQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 21541.5 lumens  
Efficiency: N/A  
Efficacy: 102.6 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): 210  
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

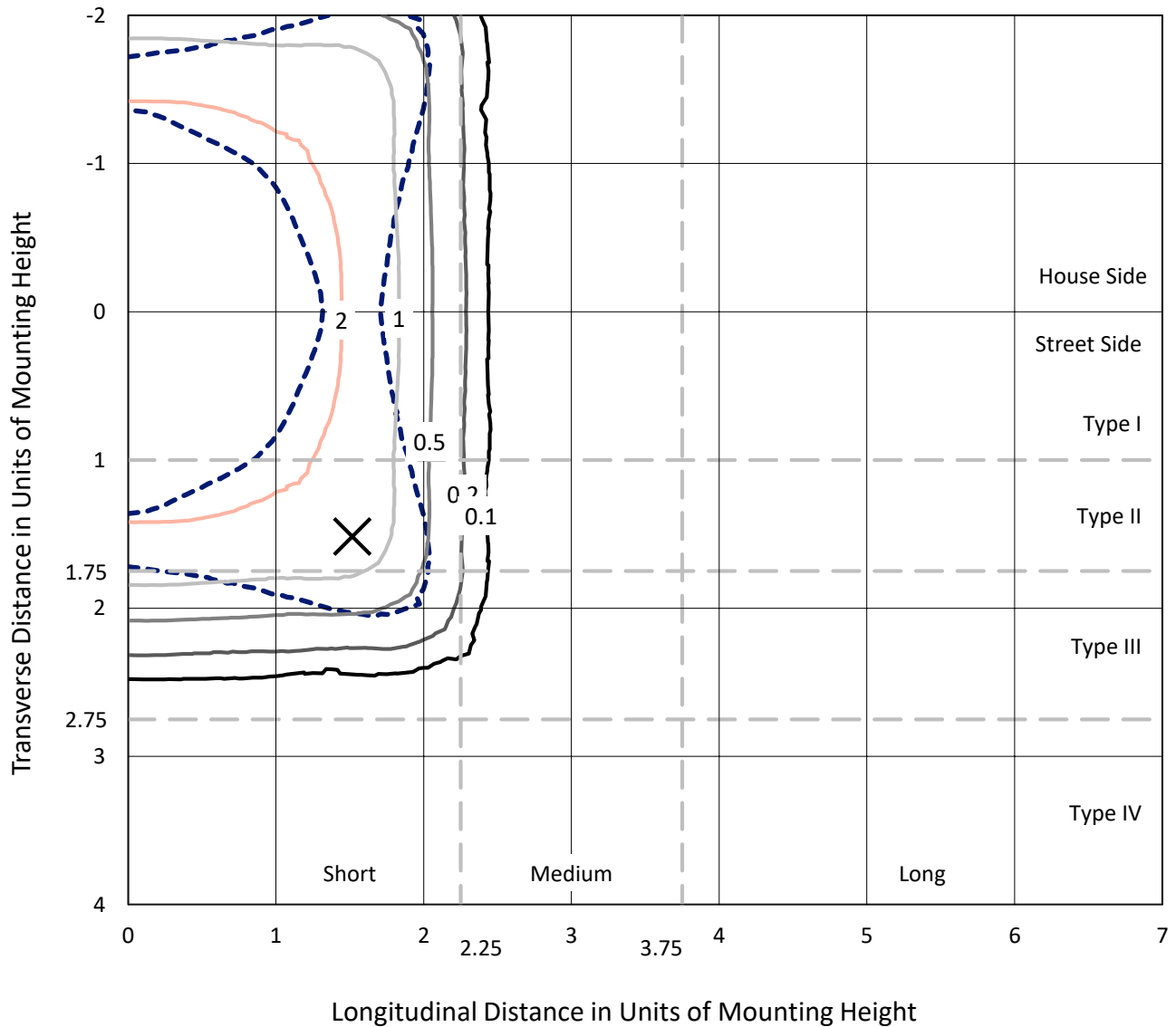


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

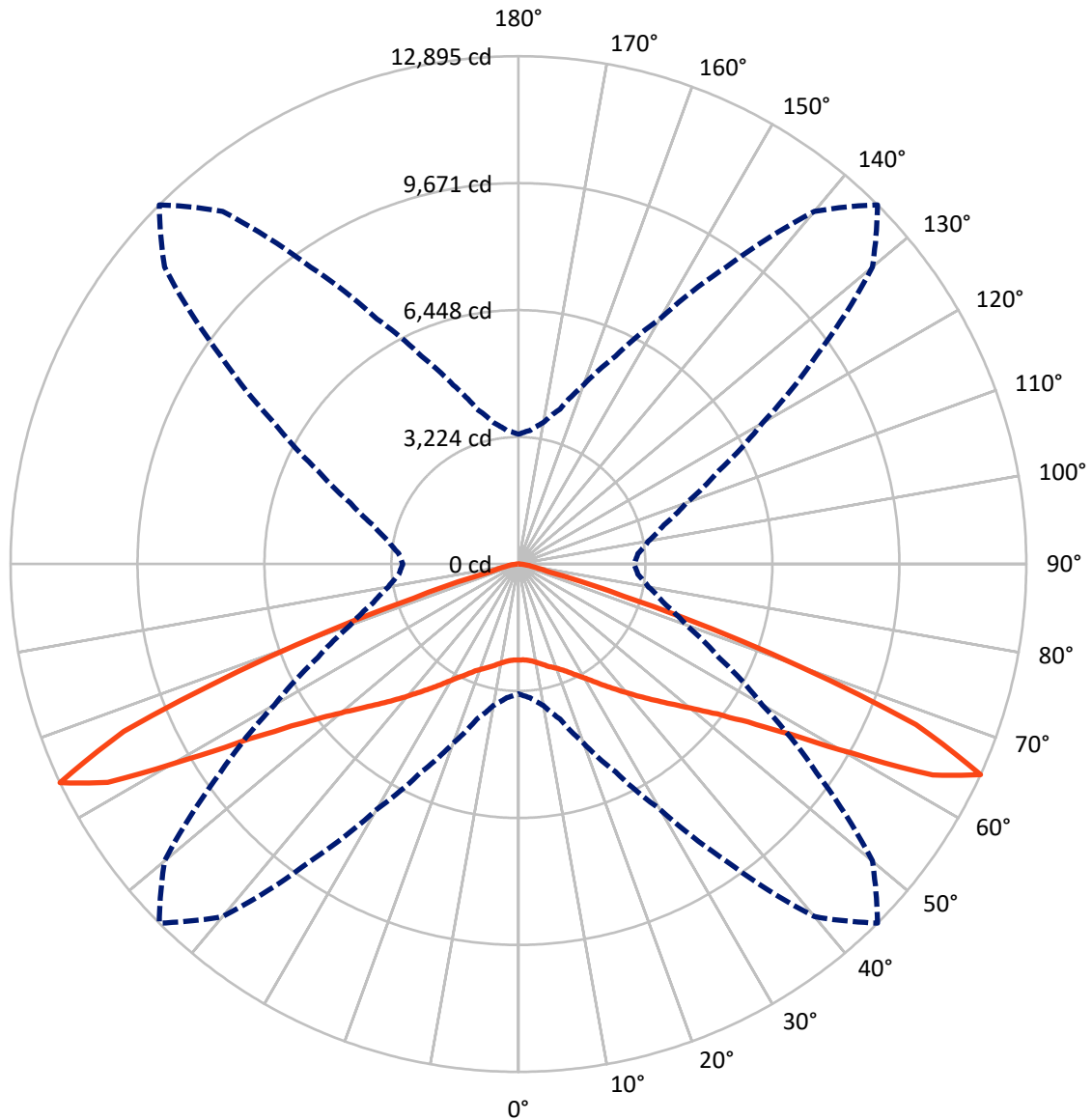


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Full Cutoff

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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	10770.8	0.0	10770.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10770.8	0.0	10770.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21541.5	0.0	21541.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.6	1.1
10°-20°	761.9	3.5
20°-30°	1424.7	6.6
30°-40°	2409.5	11.2
40°-50°	3939.8	18.3
50°-60°	6264.9	29.1
60°-70°	5663.1	26.3
70°-80°	716.7	3.3
80°-90°	123.3	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°	21541.5	100.0
0°-180°	21541.5	100.0



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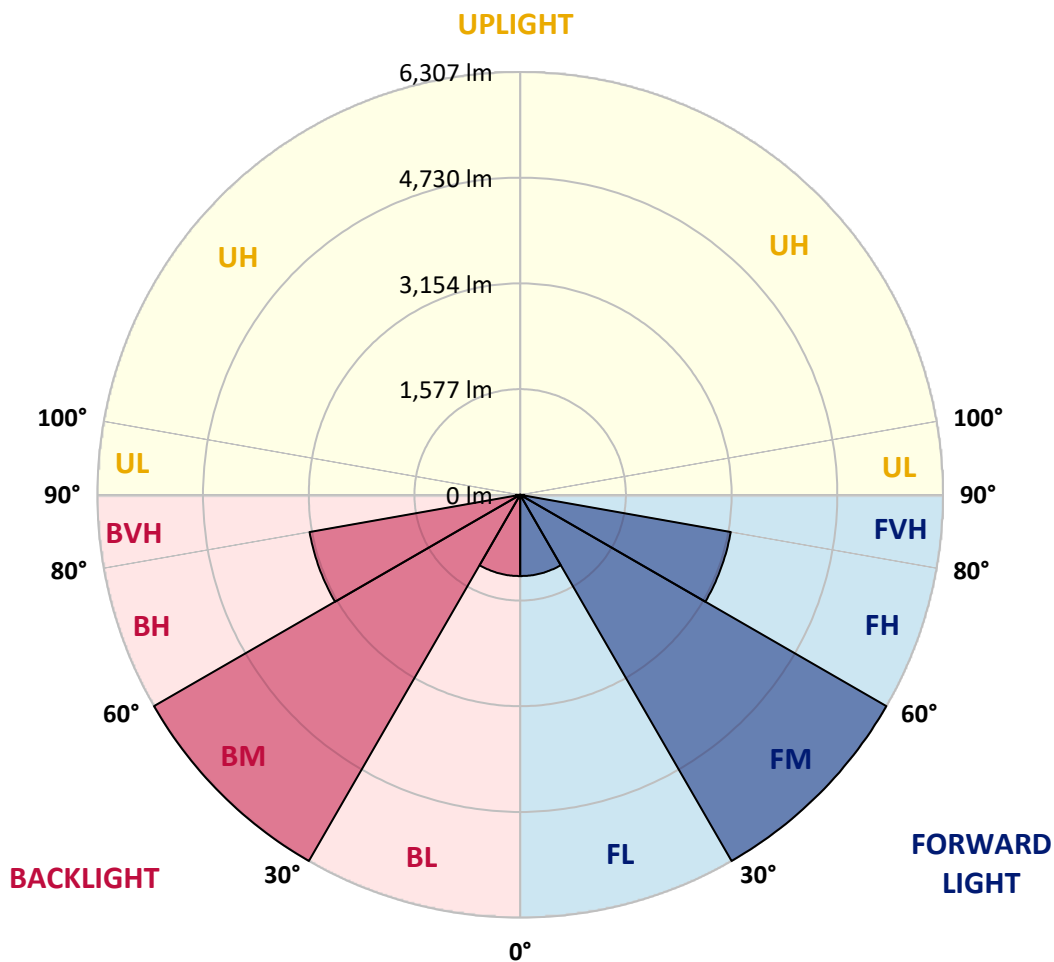
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.1	5.6			
FM	(30°-60°)	6307.1	29.3			
FH	(60°-80°)	3189.9	14.8			G2/5000
FVH	(80°-90°)	61.6	0.3			G1/100
BL	(0°-30°)	1212.1	5.6	B3/2500		
BM	(30°-60°)	6307.1	29.3	B4/8500		
BH	(60°-80°)	3189.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	61.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5
2.5°	2439.4	2441.5	2443.5	2441.5	2443.5	2440.4	2438.4	2441.5	2438.4	2435.5	2437.5
5°	2460.6	2461.6	2461.6	2458.7	2461.6	2459.6	2456.7	2460.6	2457.7	2454.6	2456.7
7.5°	2495.9	2500.1	2497.0	2494.0	2495.9	2494.0	2491.9	2492.9	2491.9	2488.9	2489.9
10°	2543.5	2546.3	2544.4	2543.5	2545.3	2544.4	2542.4	2541.3	2542.4	2539.2	2539.2
12.5°	2600.9	2599.9	2598.8	2599.9	2602.8	2602.8	2601.9	2602.8	2604.9	2606.0	2603.8
15°	2657.4	2659.4	2659.4	2659.4	2665.5	2670.5	2673.5	2675.5	2679.6	2680.6	2676.5
17.5°	2728.1	2728.1	2727.0	2728.1	2734.0	2742.2	2745.1	2749.3	2753.2	2756.2	2751.1
20°	2806.7	2808.7	2808.7	2810.7	2818.8	2827.9	2827.9	2829.9	2827.9	2829.9	2826.8
22.5°	2902.6	2908.6	2908.6	2909.6	2917.7	2928.7	2925.7	2928.7	2923.8	2927.8	2923.8
25°	3027.6	3036.7	3034.7	3034.7	3040.8	3047.8	3048.8	3054.9	3053.9	3058.9	3055.9
27.5°	3169.0	3183.1	3187.0	3186.0	3190.1	3197.1	3199.1	3206.2	3202.2	3206.2	3204.2
30°	3338.5	3344.4	3352.5	3355.4	3360.6	3367.7	3367.7	3368.6	3363.6	3369.6	3372.6
32.5°	3513.9	3524.9	3533.0	3551.2	3560.3	3565.4	3564.4	3566.5	3561.3	3569.3	3575.4
35°	3745.9	3753.9	3767.1	3781.2	3793.4	3792.4	3789.3	3790.4	3790.4	3797.3	3803.5
37.5°	4025.5	4027.5	4044.6	4064.7	4070.8	4064.7	4046.5	4042.6	4033.5	4042.6	4052.7
40°	4320.9	4328.0	4362.3	4375.5	4378.5	4367.4	4341.1	4326.1	4305.8	4317.0	4331.1
42.5°	4630.8	4644.9	4676.1	4699.4	4709.5	4702.4	4666.1	4642.8	4616.6	4622.7	4636.8
45°	4973.7	4991.0	5035.3	5057.5	5076.6	5065.5	5030.2	4994.9	4953.6	4956.6	4978.8
47.5°	5357.1	5374.3	5431.8	5469.2	5479.2	5477.1	5437.8	5389.4	5332.9	5330.9	5350.0
50°	5786.9	5804.0	5875.6	5933.1	5962.4	5959.4	5913.1	5844.5	5775.8	5776.8	5801.1
52.5°	6206.6	6227.8	6302.4	6401.3	6458.9	6500.1	6471.8	6407.3	6323.6	6325.7	6347.9
55°	6600.0	6635.4	6721.1	6855.2	6962.3	7078.3	7111.5	7109.5	7059.2	7073.3	7095.4
57.5°	6790.7	6843.2	6975.3	7187.2	7405.2	7641.3	7840.9	7990.2	8053.8	8149.7	8127.4
60°	6429.6	6513.3	6708.1	7019.7	7450.5	7942.9	8470.5	8986.0	9425.9	9757.7	9567.2
62.5°	5264.2	5373.2	5609.3	6008.9	6660.7	7448.6	8458.4	9677.1	11004.7	11805.9	11233.8
65°	3293.9	3406.9	3647.1	4074.8	4837.6	5817.2	7187.2	9207.0	11687.8	12895.3	11731.1
67.5°	1284.2	1345.8	1475.9	1749.4	2322.4	3194.2	4569.1	6861.3	9828.4	10886.7	9645.8
70°	643.6	649.7	673.9	724.4	847.5	1100.7	1674.7	3181.0	5636.5	6807.9	5433.8
72.5°	465.1	466.1	478.2	500.4	539.7	596.3	705.2	973.6	1833.1	2801.6	1718.1
75°	356.2	360.2	367.2	379.4	400.6	428.9	468.0	560.9	695.1	806.0	678.0
77.5°	274.4	282.4	287.5	298.6	311.7	330.9	342.1	377.3	438.8	462.1	455.0
80°	208.9	216.0	227.0	236.1	245.1	254.2	250.2	266.3	298.6	317.8	307.7
82.5°	133.2	141.3	173.6	181.5	185.6	191.7	184.6	185.6	199.8	211.9	199.8
85°	85.8	90.8	110.0	120.1	121.0	125.1	122.1	115.1	115.1	104.9	118.0
87.5°	39.3	40.3	49.4	58.5	60.5	54.4	53.4	51.5	41.3	39.3	42.4
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°	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5	2437.5
2.5°	2436.5	2438.4	2439.4	2442.5	2443.5	2443.5	2444.5	2446.5
5°	2455.5	2458.7	2459.6	2463.7	2464.7	2463.7	2465.7	2466.7
7.5°	2489.9	2495.0	2497.0	2501.1	2497.9	2502.0	2502.9	2502.9
10°	2540.3	2545.3	2546.3	2550.5	2548.4	2550.5	2550.5	2548.4
12.5°	2606.9	2607.9	2604.9	2607.9	2603.8	2606.0	2602.8	2600.9
15°	2680.6	2677.6	2670.5	2670.5	2664.5	2665.5	2664.5	2663.5
17.5°	2752.1	2746.2	2741.1	2739.1	2734.0	2733.1	2729.9	2729.9
20°	2830.9	2827.9	2824.8	2820.8	2815.7	2810.7	2809.7	2811.8
22.5°	2925.7	2924.7	2924.7	2922.7	2915.7	2910.6	2907.5	2907.5
25°	3052.9	3043.7	3043.7	3042.7	3039.8	3036.7	3030.6	3033.7
27.5°	3196.1	3191.0	3195.1	3194.2	3191.0	3191.0	3187.0	3187.0
30°	3372.6	3370.6	3376.6	3371.7	3361.5	3360.6	3356.5	3351.4
32.5°	3576.4	3574.4	3583.5	3577.5	3561.3	3552.3	3544.2	3540.1
35°	3803.5	3804.4	3815.6	3811.5	3793.4	3787.3	3773.2	3771.2
37.5°	4051.6	4067.7	4087.0	4091.1	4075.9	4071.7	4056.7	4048.7
40°	4343.1	4364.3	4393.6	4400.6	4384.5	4381.6	4360.4	4349.2
42.5°	4653.8	4690.2	4726.6	4732.6	4716.6	4700.3	4680.2	4672.1
45°	5001.0	5044.3	5091.9	5103.9	5079.6	5060.5	5034.3	5034.3
47.5°	5390.4	5444.8	5498.3	5531.7	5509.5	5489.4	5458.0	5437.8
50°	5850.4	5925.1	5994.7	6029.1	5993.8	5955.4	5900.8	5882.7
52.5°	6427.6	6508.2	6568.8	6550.6	6496.2	6442.6	6383.1	6358.9
55°	7164.1	7191.2	7191.2	7122.7	7013.6	6923.9	6830.1	6798.8
57.5°	8085.1	7980.3	7818.8	7613.9	7356.7	7132.7	6981.4	6909.8
60°	9167.7	8663.3	8093.2	7533.2	7073.3	6693.9	6469.0	6366.0
62.5°	9889.0	8569.4	7427.4	6528.4	5866.7	5409.6	5098.9	4977.8
65°	9242.3	7146.8	5617.5	4541.9	3820.6	3355.4	3047.8	2934.9
67.5°	6769.5	4478.4	2991.3	2143.8	1570.9	1253.0	1127.0	1074.5
70°	3038.7	1576.9	966.4	754.7	650.7	597.3	574.0	566.0
72.5°	916.0	662.8	558.9	504.5	463.0	436.8	417.7	415.6
75°	552.8	460.0	408.5	376.3	350.1	328.9	318.8	315.8
77.5°	386.5	337.9	313.8	290.5	270.4	254.2	245.1	238.1
80°	271.4	248.2	237.2	223.9	210.8	195.7	182.6	176.5
82.5°	181.5	176.5	176.5	168.5	157.5	143.3	117.0	111.0
85°	117.0	116.1	118.0	115.1	107.0	91.7	75.6	71.7
87.5°	54.4	55.4	61.5	60.5	58.5	48.4	38.4	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)