

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: P190898

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190898  
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-10-LED-E1-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 63482.3 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 558  
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

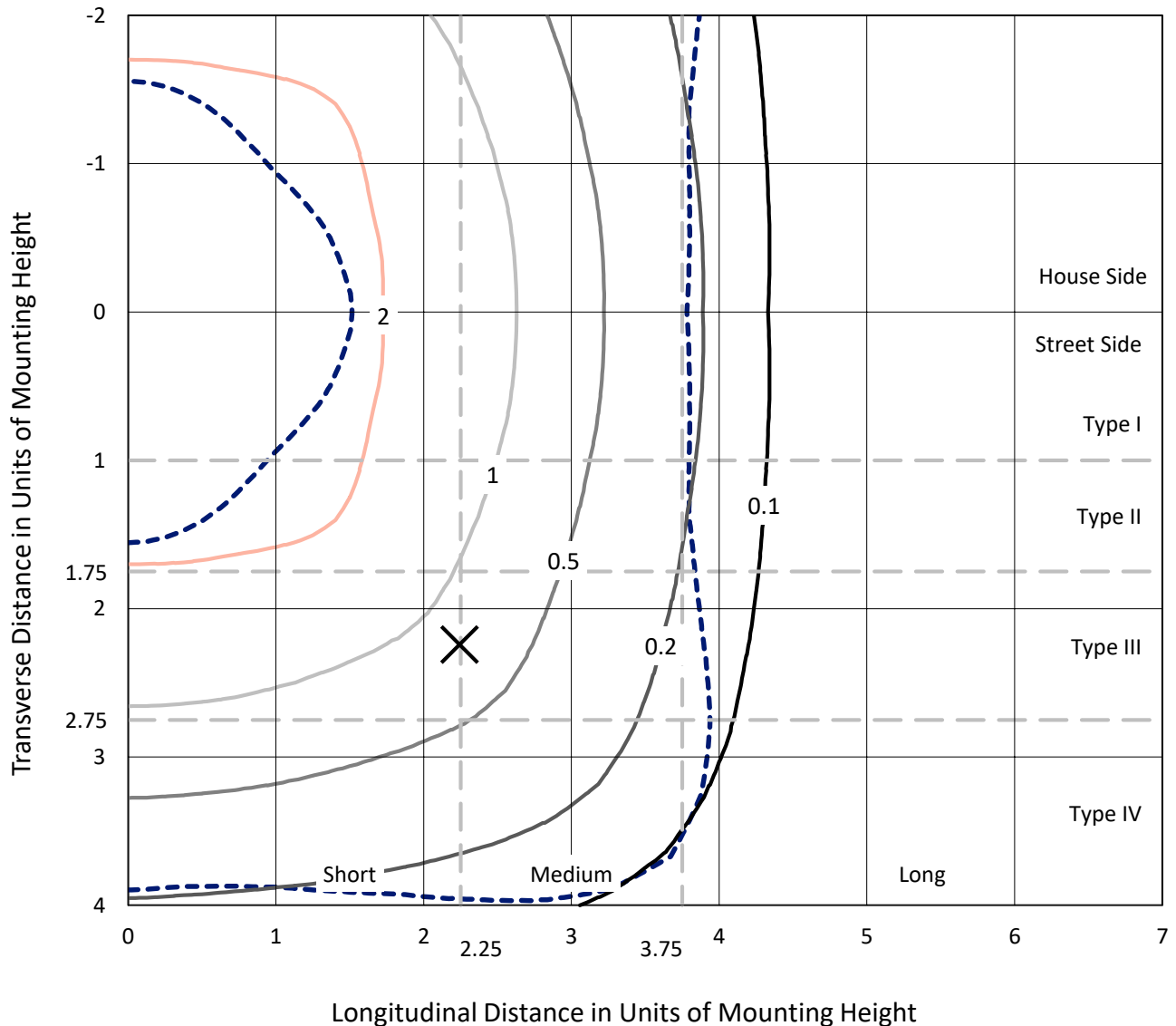


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### Iso-Footcandle Lines of Horizontal Illumination

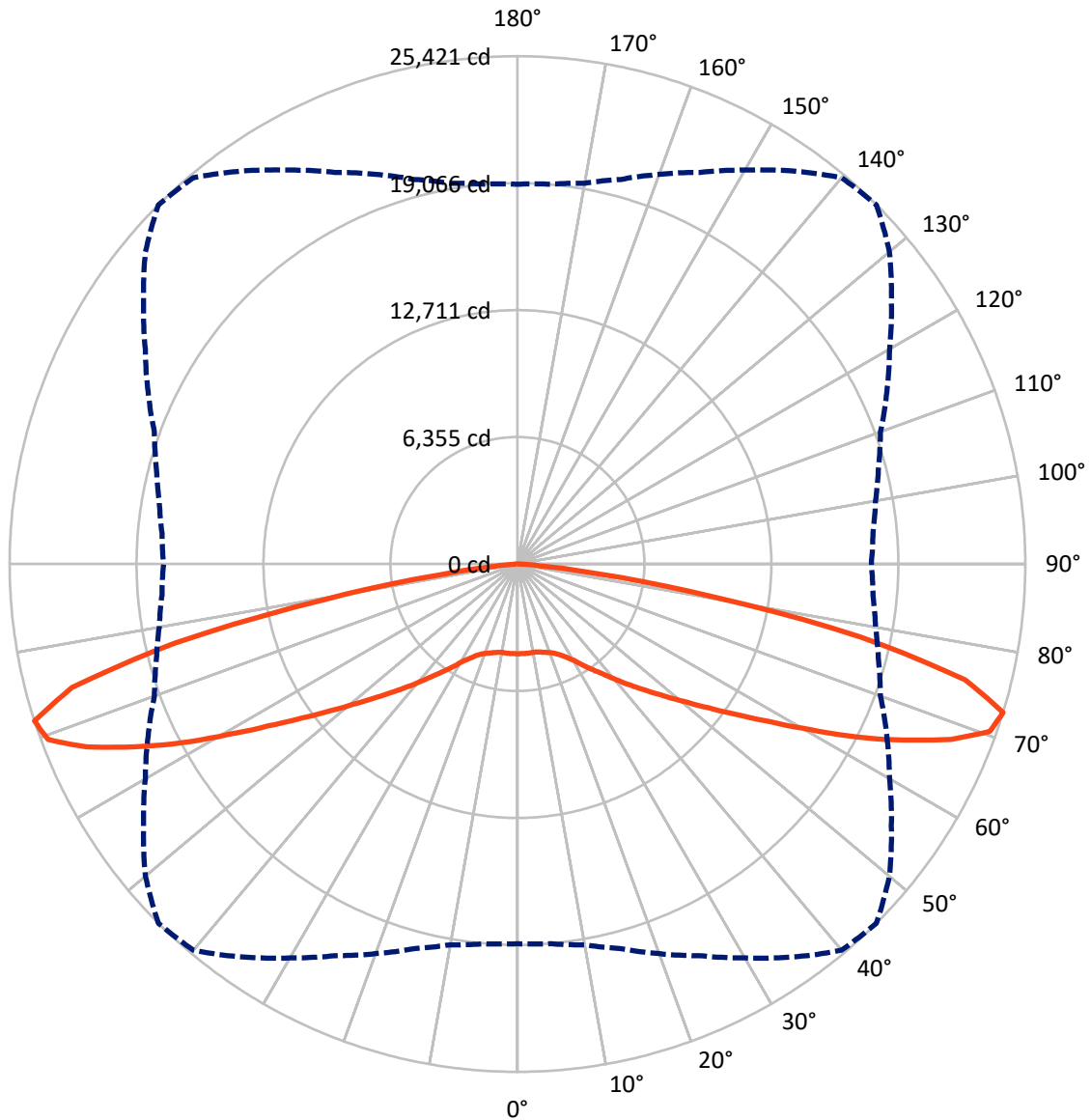
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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	31741.1	0.0	31741.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31741.1	0.0	31741.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	63482.3	0.0	63482.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.3	0.7
10°-20°	1303.7	2.1
20°-30°	2382.5	3.8
30°-40°	4107.8	6.5
40°-50°	7022.2	11.1
50°-60°	11382.1	17.9
60°-70°	18882.6	29.7
70°-80°	16631.1	26.2
80°-90°	1340.9	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°	63482.3	100.0
0°-180°	63482.3	100.0



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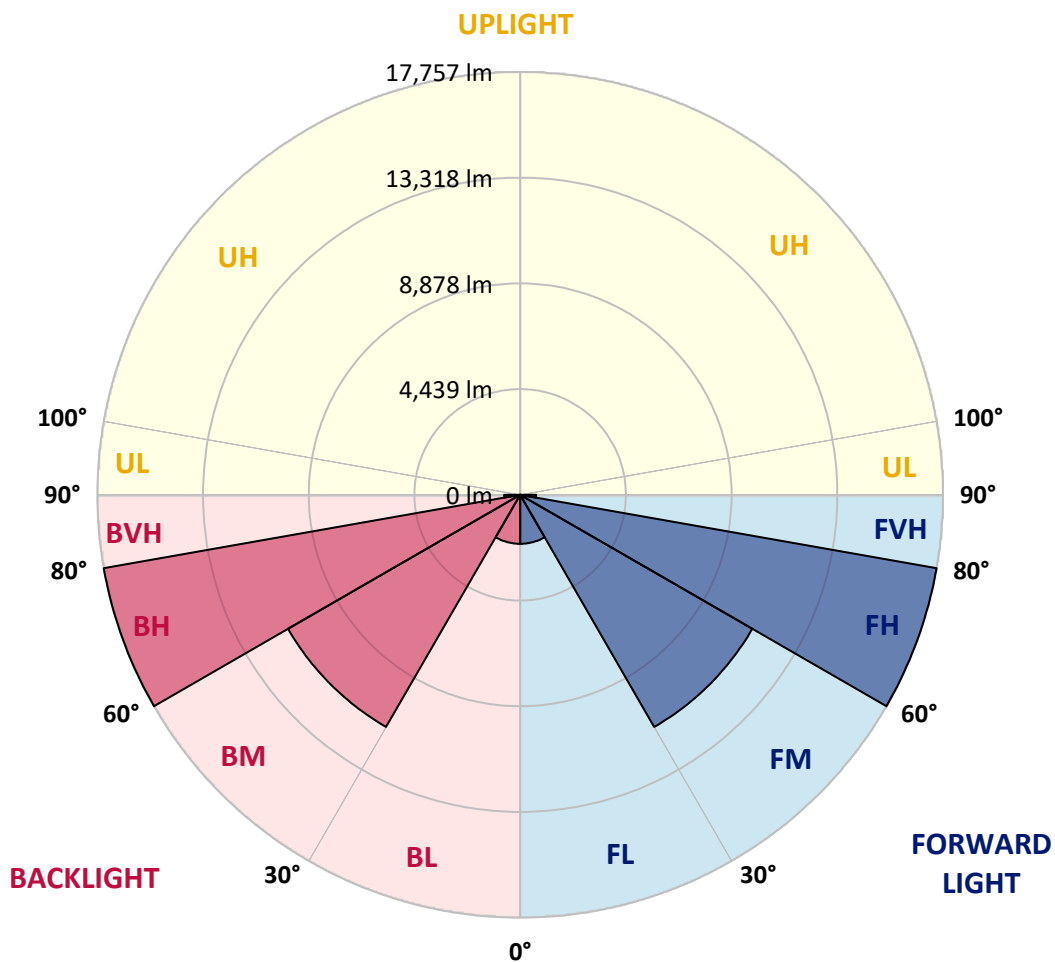
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2057.7	3.2			
FM	(30°-60°)	11256.1	17.7			
FH	(60°-80°)	17756.8	28.0			G5
FVH	(80°-90°)	670.5	1.1			G4/750
BL	(0°-30°)	2057.7	3.2	B3/2500		
BM	(30°-60°)	11256.1	17.7	B5		
BH	(60°-80°)	17756.8	28.0	B5		G5
BVH	(80°-90°)	670.5	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6
2.5°	4495.6	4498.4	4501.4	4498.4	4498.4	4495.6	4492.6	4495.6	4492.6	4486.8	4489.7
5°	4510.1	4515.9	4515.9	4510.1	4513.0	4510.1	4504.3	4507.2	4501.4	4492.6	4492.6
7.5°	4527.6	4530.4	4530.4	4524.6	4527.6	4521.7	4515.9	4513.0	4507.2	4495.6	4486.8
10°	4553.8	4556.6	4553.8	4547.9	4547.9	4539.2	4524.6	4518.8	4507.2	4489.7	4480.9
12.5°	4582.9	4585.8	4582.9	4577.1	4574.1	4559.6	4547.9	4539.2	4530.4	4515.9	4501.4
15°	4623.6	4629.5	4623.6	4612.0	4603.3	4591.6	4585.8	4588.8	4591.6	4580.0	4565.4
17.5°	4699.3	4702.3	4693.5	4667.3	4655.7	4644.0	4644.0	4649.8	4658.6	4652.8	4638.2
20°	4839.1	4830.4	4810.0	4778.0	4763.4	4743.0	4740.1	4743.0	4743.0	4740.1	4728.5
22.5°	5013.8	5008.0	4981.8	4941.1	4920.6	4908.9	4891.5	4876.9	4874.1	4865.3	4853.7
25°	5223.4	5220.5	5188.5	5153.5	5139.0	5124.5	5109.8	5089.5	5072.0	5051.6	5040.0
27.5°	5491.3	5479.6	5433.1	5415.6	5395.2	5386.4	5366.1	5342.8	5328.2	5302.1	5287.5
30°	5785.4	5785.4	5747.6	5741.7	5741.7	5721.4	5698.0	5657.2	5631.0	5604.8	5596.2
32.5°	6079.5	6082.4	6044.5	6056.2	6064.9	6079.5	6085.2	6070.7	6053.2	6050.3	6032.9
35°	6504.5	6492.9	6455.0	6463.8	6460.9	6458.0	6458.0	6490.0	6495.8	6501.7	6466.7
37.5°	7031.6	7031.6	6993.7	6993.7	6976.2	6958.7	6935.5	6955.9	6987.9	6996.6	6973.4
40°	7634.3	7654.6	7608.1	7605.1	7611.0	7555.6	7529.4	7561.4	7581.8	7616.8	7590.6
42.5°	8344.7	8330.1	8283.5	8277.7	8245.7	8228.2	8204.9	8231.2	8263.2	8286.4	8295.2
45°	9026.0	9014.3	8962.0	8962.0	8930.0	8915.3	8927.0	8970.7	8985.2	9017.3	9049.3
47.5°	9698.6	9684.1	9649.1	9663.6	9666.6	9692.8	9730.6	9771.3	9812.1	9855.8	9870.4
50°	10385.7	10388.7	10350.8	10385.7	10429.4	10502.2	10604.1	10671.0	10755.5	10810.9	10828.2
52.5°	11011.8	11023.4	11064.1	11145.7	11233.0	11375.7	11550.3	11713.4	11853.1	11946.3	11940.5
55°	11762.9	11780.4	11879.4	12019.2	12161.8	12377.3	12636.4	12924.7	13157.6	13291.5	13207.1
57.5°	12723.8	12761.6	12872.2	13061.5	13274.0	13553.6	13908.8	14342.6	14703.7	14884.1	14747.4
60°	14042.8	14066.0	14200.0	14409.6	14665.8	15012.3	15486.9	16069.2	16578.8	16817.5	16660.3
62.5°	15781.0	15824.6	15932.4	16144.9	16406.9	16800.0	17379.4	18107.4	18742.1	19073.9	18718.8
65°	17856.9	17996.7	18086.9	18302.4	18547.0	18963.4	19568.9	20349.3	21030.5	21248.9	20838.4
67.5°	19912.6	20034.8	20192.0	20439.5	20687.0	21155.7	21717.8	22474.7	23223.0	23421.0	22783.4
70°	20812.2	20882.1	21126.7	21464.4	21939.0	22492.2	23141.5	23991.7	24917.5	25080.6	24271.2
72.5°	19009.9	19079.8	19353.5	19927.1	20753.9	21633.3	22765.9	24015.0	25237.8	25421.4	24306.1
75°	14377.6	14264.0	14668.7	15428.7	16543.8	17769.6	19353.5	21144.2	22911.4	23141.5	21810.9
77.5°	7430.4	7415.9	7721.6	8665.0	9995.6	11390.3	13134.3	15157.9	16887.4	17586.2	16503.1
80°	2093.5	2116.8	2262.4	2731.1	3508.5	4515.9	5878.6	7774.0	9189.1	9911.2	9305.5
82.5°	821.1	885.2	940.5	1027.8	1129.7	1278.2	1706.2	2539.0	3406.6	4070.4	3333.8
85°	294.1	314.5	445.5	527.0	535.7	564.9	643.4	751.2	905.5	1080.2	888.0
87.5°	110.7	122.2	142.7	235.8	232.9	212.6	259.1	270.8	203.8	186.4	230.1
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°	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6	4495.6
2.5°	4483.9	4486.8	4486.8	4489.7	4492.6	4492.6	4498.4	4498.4
5°	4486.8	4486.8	4480.9	4483.9	4480.9	4480.9	4483.9	4483.9
7.5°	4480.9	4478.1	4472.2	4469.4	4463.5	4463.5	4463.5	4463.5
10°	4472.2	4469.4	4463.5	4460.6	4457.7	4457.7	4457.7	4457.7
12.5°	4495.6	4486.8	4480.9	4478.1	4478.1	4478.1	4478.1	4478.1
15°	4556.6	4536.3	4521.7	4521.7	4524.6	4530.4	4530.4	4536.3
17.5°	4632.3	4609.1	4594.5	4582.9	4588.8	4597.4	4603.3	4609.1
20°	4722.7	4711.0	4690.6	4679.0	4679.0	4690.6	4696.5	4699.3
22.5°	4847.9	4839.1	4830.4	4815.8	4815.8	4821.7	4833.2	4833.2
25°	5034.1	5028.3	5022.5	5010.9	5008.0	5008.0	5013.8	5019.6
27.5°	5267.1	5270.0	5264.2	5261.2	5252.5	5249.7	5258.4	5255.5
30°	5578.7	5593.2	5607.8	5596.2	5581.5	5572.8	5564.1	5552.5
32.5°	6000.8	5983.3	5971.7	5951.3	5925.1	5901.8	5884.4	5864.0
35°	6399.7	6370.6	6359.0	6376.5	6373.5	6359.0	6338.6	6321.1
37.5°	6888.9	6883.0	6888.9	6920.9	6915.0	6929.7	6888.9	6886.0
40°	7506.1	7511.9	7552.8	7590.6	7611.0	7631.3	7608.1	7584.8
42.5°	8222.4	8219.5	8234.0	8286.4	8321.4	8344.7	8295.2	8289.4
45°	8979.5	8959.0	8970.7	9014.3	9049.3	9075.5	9020.2	9020.2
47.5°	9812.1	9777.2	9739.3	9788.8	9809.2	9826.7	9783.0	9768.5
50°	10741.0	10668.1	10586.6	10607.0	10607.0	10601.1	10545.9	10542.9
52.5°	11806.6	11672.7	11524.2	11468.8	11436.8	11401.9	11305.8	11259.2
55°	13032.4	12831.5	12598.6	12455.9	12380.2	12284.1	12123.9	12080.3
57.5°	14464.9	14150.5	13748.7	13573.9	13405.1	13247.8	13070.2	13020.7
60°	16162.4	15699.4	15166.6	14843.4	14660.0	14508.6	14325.1	14316.4
62.5°	18054.9	17324.1	16721.4	16430.2	16296.3	16162.4	15987.7	16010.9
65°	19979.5	19216.6	18651.8	18416.0	18290.8	18180.1	18005.5	18031.7
67.5°	21877.8	21176.2	20556.0	20314.4	20174.5	20034.8	19877.6	19903.8
70°	23240.5	22369.9	21671.1	21135.4	20800.6	20422.1	20177.5	20116.3
72.5°	22850.4	21508.1	20398.8	19336.0	18712.9	18206.3	17862.8	17714.2
75°	19775.7	17941.3	16514.7	15210.3	14476.5	13879.7	13445.9	13175.1
77.5°	14686.2	12624.7	10938.9	9436.5	8248.6	7450.9	6888.9	6524.9
80°	8039.0	6114.4	4469.4	3141.6	2308.9	1918.7	1694.5	1586.8
82.5°	2504.0	1616.0	1190.8	1027.8	955.0	914.2	847.3	739.6
85°	797.8	698.8	649.3	620.2	591.1	515.4	355.2	323.2
87.5°	308.6	317.3	314.5	297.0	302.8	218.4	174.7	154.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)