

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: P191698

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191698  
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-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 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: 62058 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

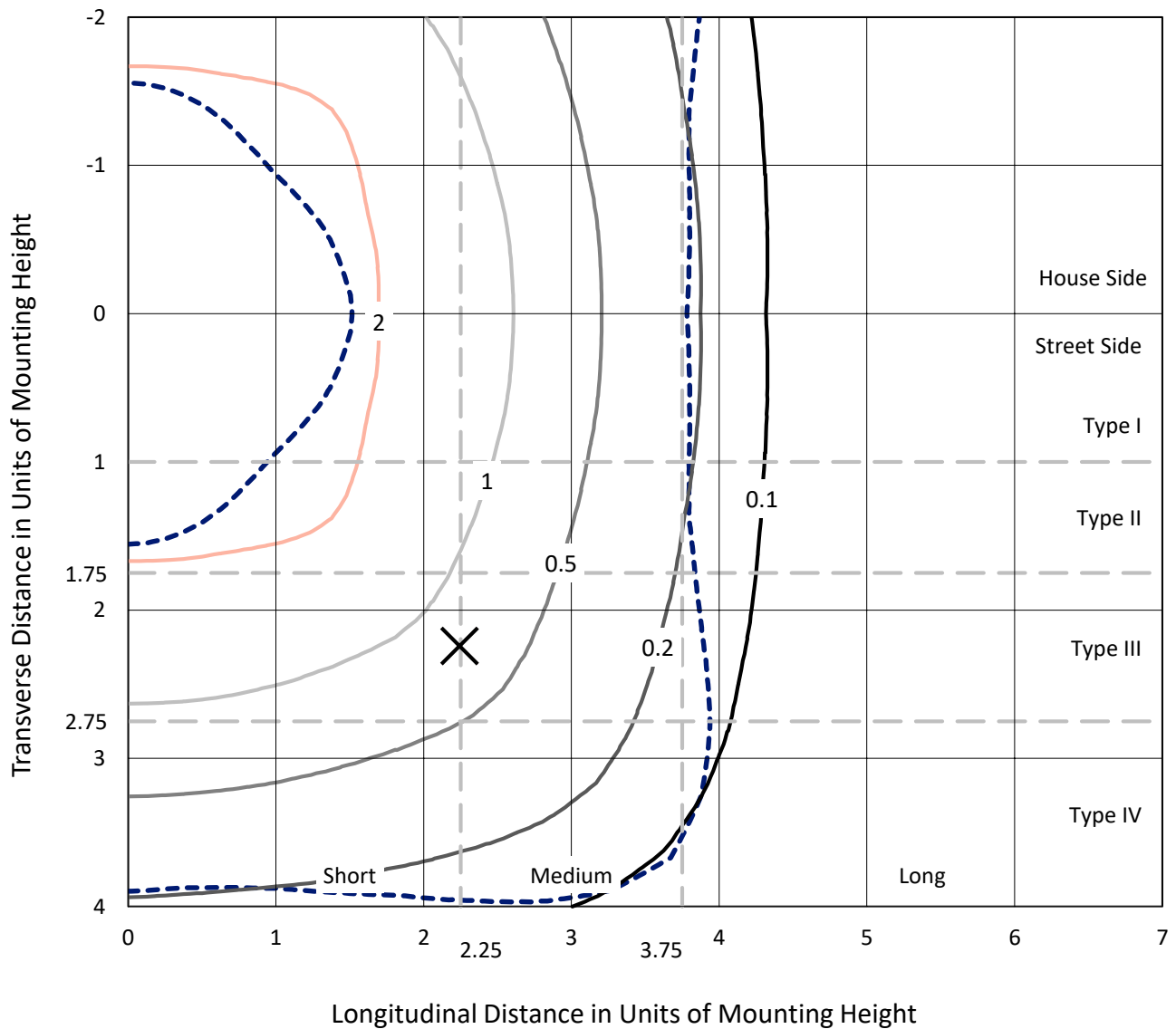


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### Iso-Footcandle Lines of Horizontal Illumination

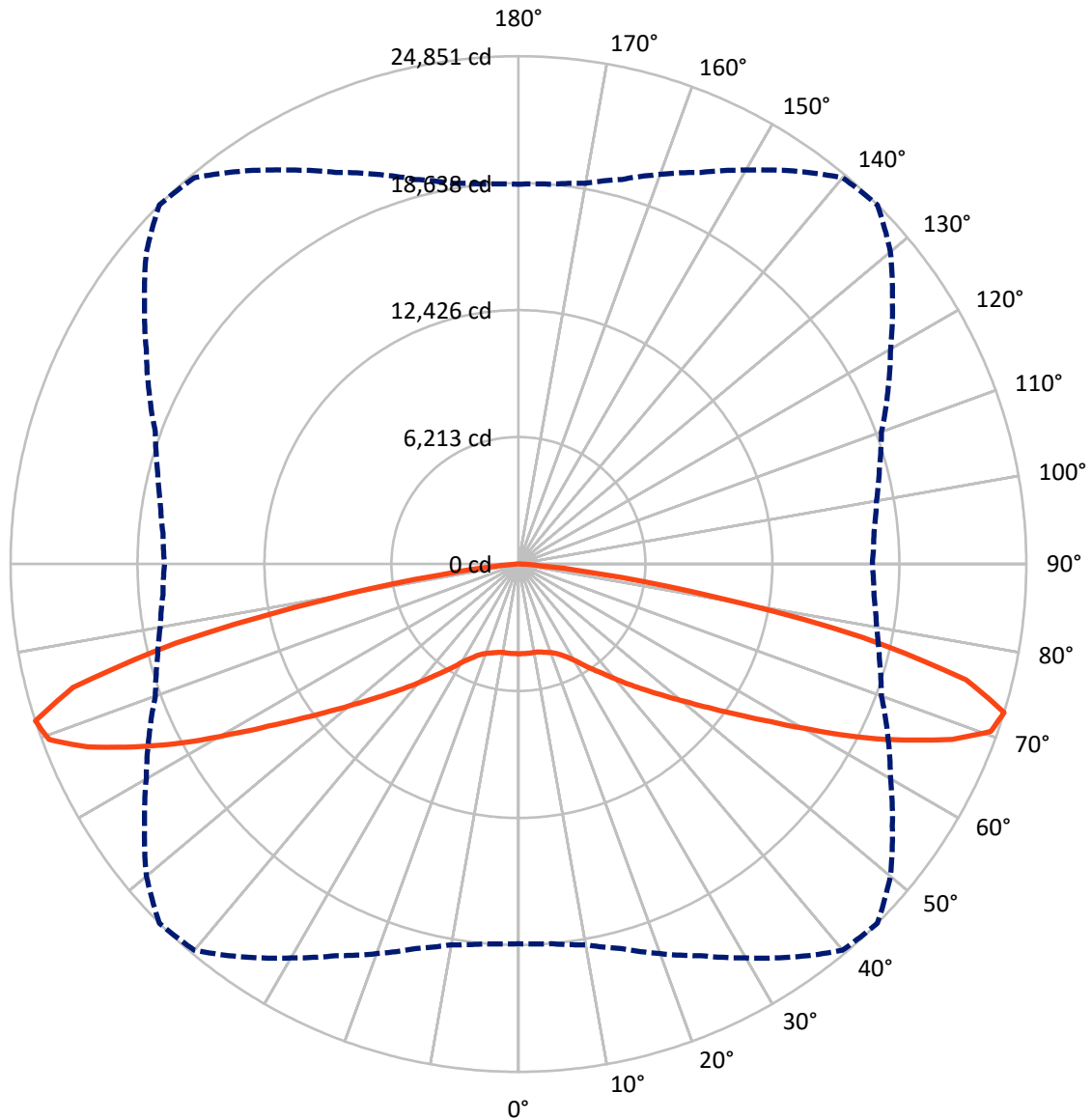
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	31029.0	0.0	31029.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31029.0	0.0	31029.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	62058.0	0.0	62058.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.6	0.7
10°-20°	1274.5	2.1
20°-30°	2329.0	3.8
30°-40°	4015.6	6.5
40°-50°	6864.7	11.1
50°-60°	11126.8	17.9
60°-70°	18458.9	29.7
70°-80°	16258.0	26.2
80°-90°	1310.8	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°	62058.0	100.0
0°-180°	62058.0	100.0



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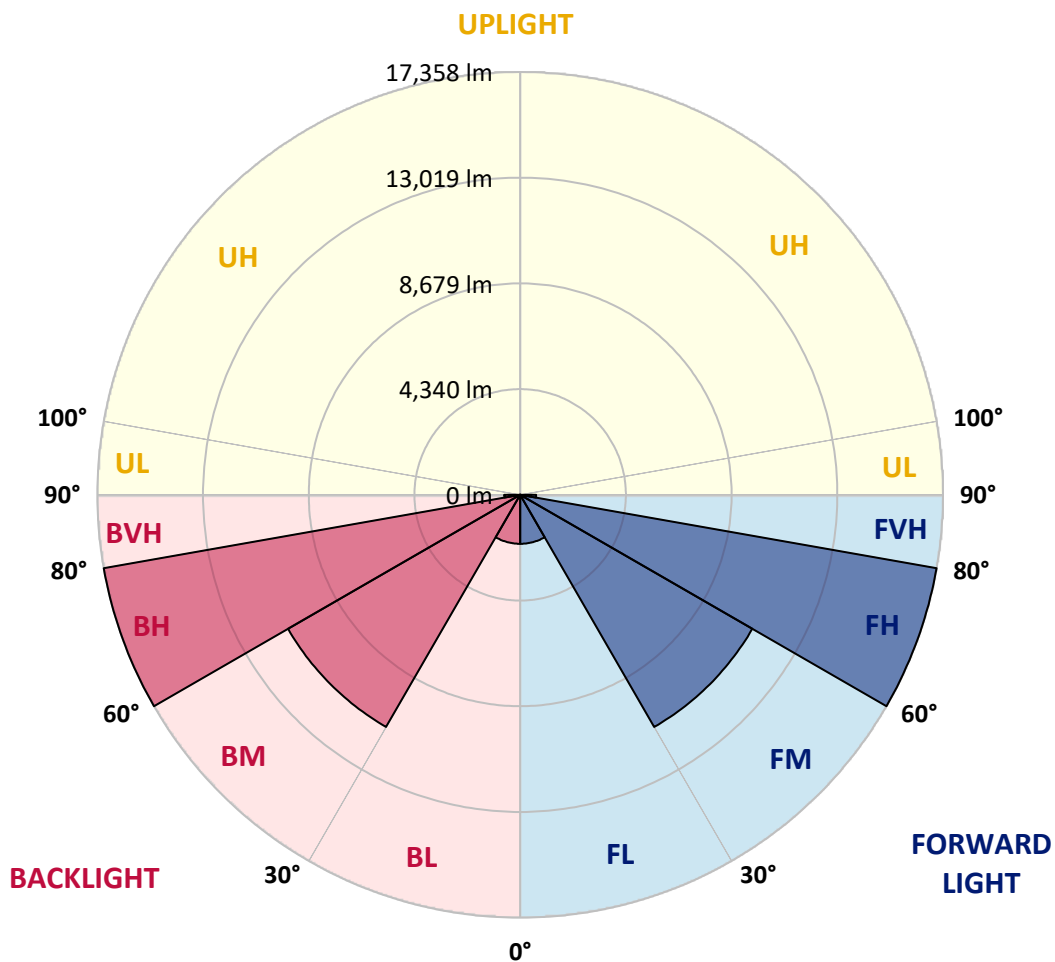
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2011.6	3.2			
FM (30°-60°)	11003.6	17.7			
FH (60°-80°)	17358.4	28.0			G5
FVH (80°-90°)	655.4	1.1			G4/750
BL (0°-30°)	2011.6	3.2	B3/2500		
BM (30°-60°)	11003.6	17.7	B5		
BH (60°-80°)	17358.4	28.0	B5		G5
BVH (80°-90°)	655.4	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°	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7
2.5°	4394.7	4397.5	4400.4	4397.5	4397.5	4394.7	4391.8	4394.7	4391.8	4386.1	4389.0
5°	4408.9	4414.6	4414.6	4408.9	4411.7	4408.9	4403.2	4406.1	4400.4	4391.8	4391.8
7.5°	4426.0	4428.8	4428.8	4423.1	4426.0	4420.3	4414.6	4411.7	4406.1	4394.7	4386.1
10°	4451.6	4454.4	4451.6	4445.9	4445.9	4437.4	4423.1	4417.4	4406.1	4389.0	4380.4
12.5°	4480.1	4482.9	4480.1	4474.4	4471.5	4457.3	4445.9	4437.4	4428.8	4414.6	4400.4
15°	4519.9	4525.6	4519.9	4508.5	4500.0	4488.6	4482.9	4485.8	4488.6	4477.2	4463.0
17.5°	4593.9	4596.8	4588.2	4562.6	4551.2	4539.8	4539.8	4545.5	4554.1	4548.4	4534.1
20°	4730.5	4722.0	4702.1	4670.8	4656.5	4636.6	4633.8	4636.6	4636.6	4633.8	4622.4
22.5°	4901.3	4895.6	4870.0	4830.2	4810.2	4798.8	4781.8	4767.5	4764.7	4756.1	4744.8
25°	5106.2	5103.4	5072.1	5037.9	5023.7	5009.5	4995.2	4975.3	4958.2	4938.3	4926.9
27.5°	5368.1	5356.7	5311.2	5294.1	5274.2	5265.6	5245.7	5222.9	5208.7	5183.1	5168.9
30°	5655.6	5655.6	5618.6	5612.9	5612.9	5593.0	5570.2	5530.3	5504.7	5479.1	5470.6
32.5°	5943.1	5945.9	5908.9	5920.3	5928.8	5943.1	5948.7	5934.5	5917.4	5914.6	5897.5
35°	6358.6	6347.2	6310.2	6318.8	6315.9	6313.1	6313.1	6344.4	6350.1	6355.8	6321.6
37.5°	6873.8	6873.8	6836.8	6836.8	6819.7	6802.6	6779.9	6799.8	6831.1	6839.6	6816.9
40°	7463.0	7482.9	7437.4	7434.5	7440.2	7386.1	7360.5	7391.8	7411.7	7445.9	7420.3
42.5°	8157.5	8143.2	8097.7	8092.0	8060.7	8043.6	8020.8	8046.5	8077.8	8100.5	8109.1
45°	8823.5	8812.1	8760.9	8760.9	8729.6	8715.3	8726.7	8769.4	8783.6	8815.0	8846.3
47.5°	9481.0	9466.8	9432.6	9446.8	9449.7	9475.3	9512.3	9552.1	9592.0	9634.7	9648.9
50°	10152.7	10155.6	10118.6	10152.7	10195.4	10266.6	10366.2	10431.6	10514.2	10568.3	10585.3
52.5°	10764.7	10776.1	10815.9	10895.6	10981.0	11120.5	11291.2	11450.6	11587.2	11678.3	11672.6
55°	11499.0	11516.1	11612.9	11749.5	11888.9	12099.6	12352.9	12634.7	12862.4	12993.3	12910.8
57.5°	12438.3	12475.3	12583.4	12768.5	12976.2	13249.5	13596.7	14020.8	14373.8	14550.2	14416.5
60°	13727.7	13750.4	13881.4	14086.3	14336.8	14675.5	15139.4	15708.7	16206.8	16440.2	16286.5
62.5°	15426.9	15469.6	15574.9	15782.7	16038.8	16423.1	16989.5	17701.1	18321.6	18646.0	18298.8
65°	17456.3	17592.9	17681.1	17891.8	18130.9	18537.9	19129.9	19892.7	20558.7	20772.2	20370.9
67.5°	19465.8	19585.3	19739.0	19980.9	20222.9	20681.1	21230.5	21970.5	22702.0	22895.5	22272.2
70°	20345.3	20413.6	20652.7	20982.8	21446.8	21987.6	22622.3	23453.4	24358.5	24517.9	23726.7
72.5°	18583.4	18651.7	18919.3	19480.0	20288.3	21147.9	22255.1	23476.2	24671.6	24851.0	23760.8
75°	14055.0	13944.0	14339.6	15082.5	16172.6	17370.9	18919.3	20669.8	22397.4	22622.3	21321.6
77.5°	7263.7	7249.5	7548.4	8470.6	9771.3	11134.7	12839.6	14817.8	16508.5	17191.6	16132.8
80°	2046.5	2069.3	2211.6	2669.8	3429.8	4414.6	5746.7	7599.6	8982.9	9688.8	9096.7
82.5°	802.7	865.3	919.4	1004.7	1104.4	1249.5	1667.9	2482.0	3330.2	3979.1	3259.0
85°	287.5	307.4	435.5	515.2	523.7	552.2	629.0	734.3	885.2	1056.0	868.1
87.5°	108.2	119.5	139.5	230.5	227.7	207.8	253.3	264.7	199.2	182.2	224.9
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°	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7	4394.7
2.5°	4383.3	4386.1	4386.1	4389.0	4391.8	4391.8	4397.5	4397.5
5°	4386.1	4386.1	4380.4	4383.3	4380.4	4380.4	4383.3	4383.3
7.5°	4380.4	4377.6	4371.9	4369.1	4363.4	4363.4	4363.4	4363.4
10°	4371.9	4369.1	4363.4	4360.5	4357.7	4357.7	4357.7	4357.7
12.5°	4394.7	4386.1	4380.4	4377.6	4377.6	4377.6	4377.6	4377.6
15°	4454.4	4434.5	4420.3	4420.3	4423.1	4428.8	4428.8	4434.5
17.5°	4528.4	4505.7	4491.4	4480.1	4485.8	4494.3	4500.0	4505.7
20°	4616.7	4605.3	4585.4	4574.0	4574.0	4585.4	4591.1	4593.9
22.5°	4739.1	4730.5	4722.0	4707.8	4707.8	4713.5	4724.8	4724.8
25°	4921.2	4915.5	4909.8	4898.5	4895.6	4895.6	4901.3	4907.0
27.5°	5148.9	5151.8	5146.1	5143.2	5134.7	5131.9	5140.4	5137.6
30°	5453.5	5467.7	5482.0	5470.6	5456.3	5447.8	5439.3	5427.9
32.5°	5866.2	5849.1	5837.7	5817.8	5792.2	5769.4	5752.4	5732.4
35°	6256.1	6227.7	6216.3	6233.4	6230.5	6216.3	6196.4	6179.3
37.5°	6734.3	6728.6	6734.3	6765.6	6759.9	6774.2	6734.3	6731.5
40°	7337.7	7343.4	7383.3	7420.3	7440.2	7460.1	7437.4	7414.6
42.5°	8037.9	8035.1	8049.3	8100.5	8134.7	8157.5	8109.1	8103.4
45°	8778.0	8758.0	8769.4	8812.1	8846.3	8871.9	8817.8	8817.8
47.5°	9592.0	9557.8	9520.8	9569.2	9589.1	9606.2	9563.5	9549.3
50°	10500.0	10428.8	10349.1	10369.0	10369.0	10363.3	10309.3	10306.4
52.5°	11541.7	11410.8	11265.6	11211.5	11180.2	11146.1	11052.1	11006.6
55°	12740.0	12543.6	12315.9	12176.4	12102.4	12008.5	11851.9	11809.3
57.5°	14140.4	13833.0	13440.2	13269.4	13104.3	12950.6	12777.0	12728.6
60°	15799.8	15347.2	14826.3	14510.4	14331.1	14183.1	14003.7	13995.2
62.5°	17649.8	16935.4	16346.2	16061.6	15930.7	15799.8	15629.0	15651.7
65°	19531.2	18785.5	18233.3	18002.8	17880.4	17772.2	17601.5	17627.1
67.5°	21387.0	20701.1	20094.8	19858.6	19721.9	19585.3	19431.6	19457.2
70°	22719.1	21868.0	21184.9	20661.2	20333.9	19963.9	19724.8	19665.0
72.5°	22337.7	21025.5	19941.1	18902.2	18293.1	17797.8	17462.0	17316.8
75°	19332.0	17538.8	16144.2	14869.0	14151.7	13568.3	13144.2	12879.5
77.5°	14356.7	12341.5	10693.5	9224.8	8063.5	7283.7	6734.3	6378.5
80°	7858.6	5977.2	4369.1	3071.1	2257.1	1875.7	1656.5	1551.2
82.5°	2447.8	1579.7	1164.1	1004.7	933.6	893.7	828.3	723.0
85°	779.9	683.1	634.7	606.3	577.8	503.8	347.2	315.9
87.5°	301.7	310.2	307.4	290.3	296.0	213.5	170.8	150.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)