

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: P269524

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-5MQ-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47762.8 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 511  
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

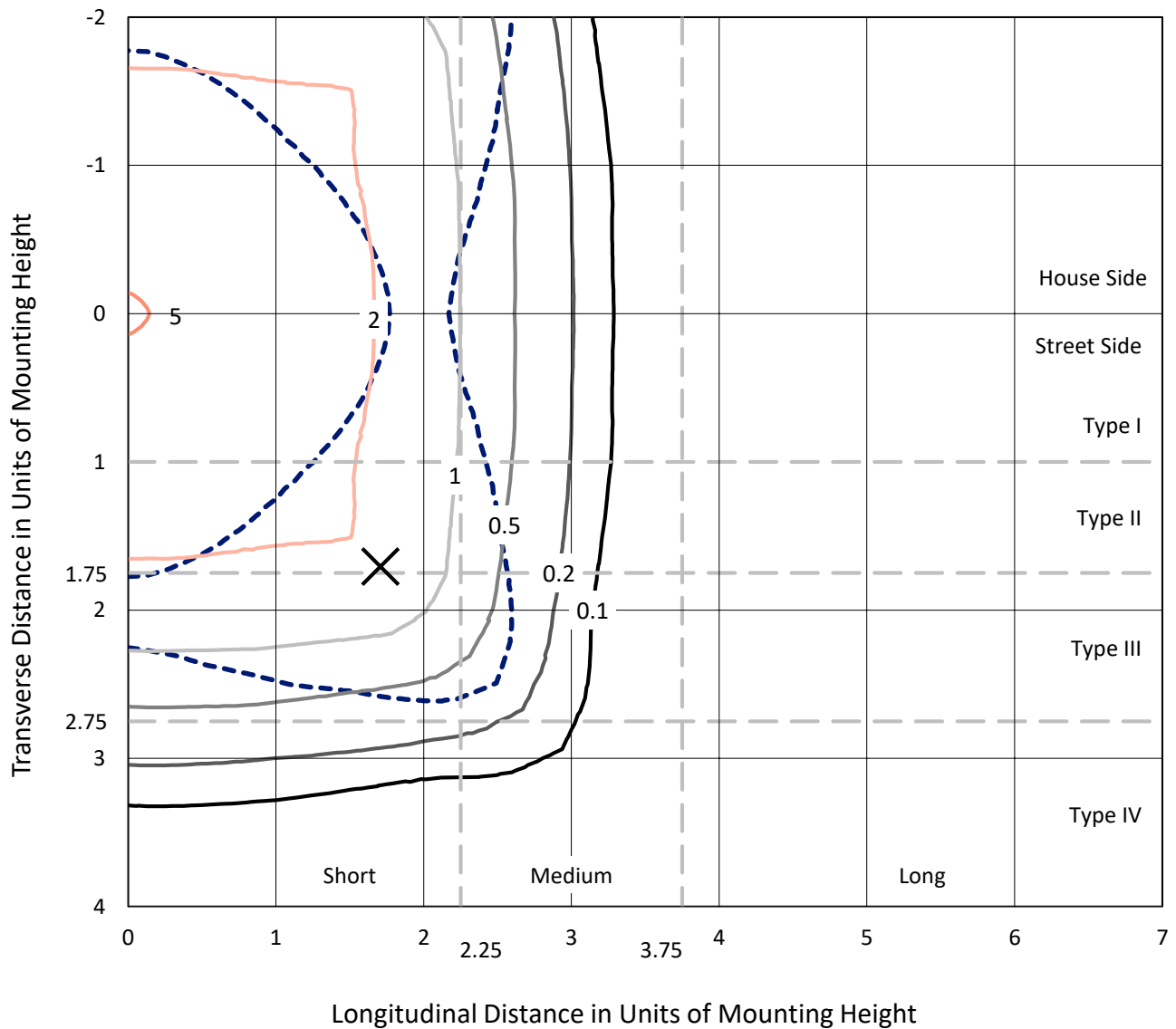


REPORT NUMBER: P269524

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7027-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

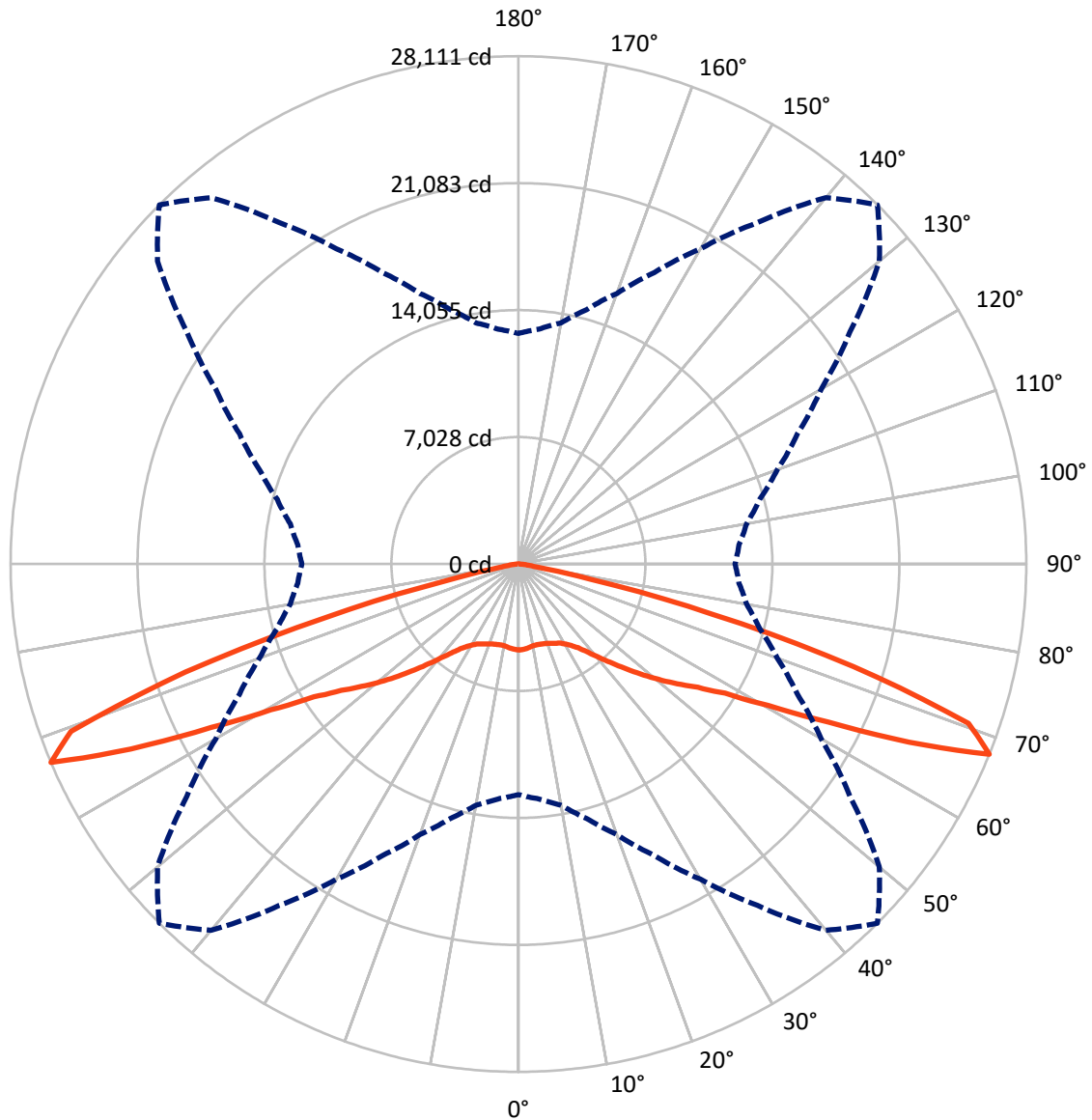


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P269524

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7027-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269524

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7027-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23881.4	0.0	23881.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23881.4	0.0	23881.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47762.8	0.0	47762.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.5	0.9
10°-20°	1292.7	2.7
20°-30°	2197.6	4.6
30°-40°	3592.4	7.5
40°-50°	6413.2	13.4
50°-60°	10812.8	22.6
60°-70°	16779.8	35.1
70°-80°	5895.7	12.3
80°-90°	333.2	0.7
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°	47762.8	100.0
0°-180°	47762.8	100.0



REPORT NUMBER: P269524

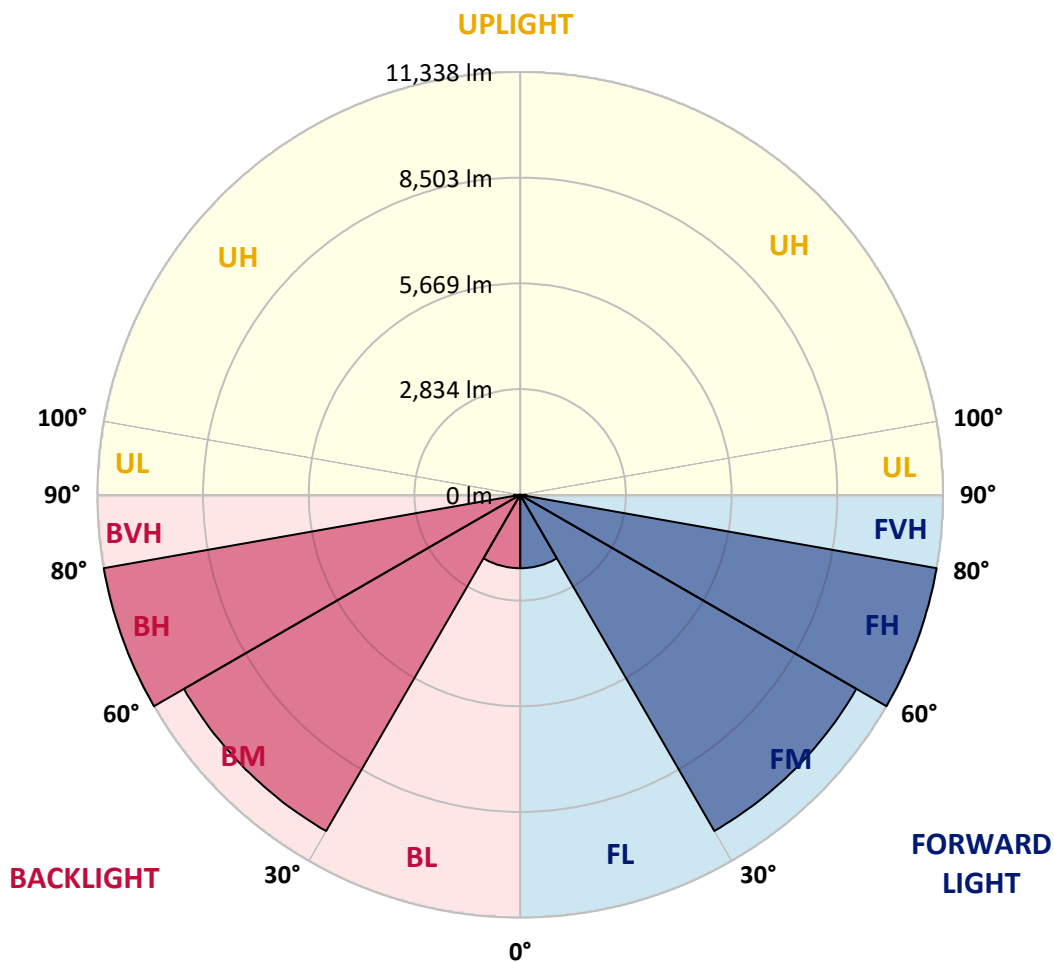
CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7027-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1967.9	4.1			
FM	(30°-60°)	10409.2	21.8			
FH	(60°-80°)	11337.7	23.7			G4/12000
FVH	(80°-90°)	166.6	0.3			G2/225
BL	(0°-30°)	1967.9	4.1	B3/2500		
BM	(30°-60°)	10409.2	21.8	B5		
BH	(60°-80°)	11337.7	23.7	B5		G4/12000
BVH	(80°-90°)	166.6	0.3			G2/225
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





REPORT NUMBER: P269524

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7027-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8
2.5°	4742.2	4746.6	4746.6	4746.6	4744.4	4744.4	4739.9	4744.4	4742.2	4735.7	4737.8
5°	4702.6	4707.1	4707.1	4704.9	4711.4	4709.3	4702.6	4707.1	4704.9	4700.4	4702.6
7.5°	4645.6	4652.1	4652.1	4649.9	4656.5	4654.4	4649.9	4652.1	4652.1	4645.6	4645.6
10°	4581.9	4586.2	4586.2	4584.1	4595.0	4595.0	4592.9	4599.4	4601.6	4595.0	4590.7
12.5°	4522.5	4529.2	4529.2	4537.9	4548.8	4553.2	4564.3	4573.0	4581.9	4579.6	4570.8
15°	4487.5	4491.7	4500.6	4511.6	4529.2	4544.5	4562.1	4581.9	4599.4	4603.9	4590.7
17.5°	4465.5	4472.0	4485.1	4500.6	4524.8	4551.2	4577.5	4603.9	4628.0	4636.7	4621.4
20°	4458.8	4463.3	4476.4	4502.8	4535.7	4575.2	4612.5	4643.3	4676.2	4687.3	4676.2
22.5°	4472.0	4480.8	4496.1	4527.0	4570.8	4621.4	4665.3	4707.1	4748.8	4768.6	4753.2
25°	4531.3	4540.2	4559.8	4599.4	4647.7	4700.4	4751.0	4799.4	4836.7	4856.3	4845.5
27.5°	4641.2	4652.1	4676.2	4715.8	4768.6	4825.6	4880.6	4920.0	4950.9	4957.4	4944.4
30°	4805.9	4830.0	4858.7	4902.5	4964.0	5012.4	5067.2	5102.5	5139.7	5139.7	5128.8
32.5°	5062.8	5087.0	5117.9	5159.5	5207.8	5260.6	5309.0	5339.6	5379.2	5381.3	5354.9
35°	5447.2	5458.2	5484.6	5510.9	5554.8	5601.0	5642.8	5662.6	5695.4	5697.7	5673.4
37.5°	5954.7	5956.8	5974.4	5983.3	6022.7	6073.3	6112.7	6126.0	6156.8	6152.3	6128.1
40°	6545.5	6556.5	6563.0	6576.2	6618.1	6666.3	6708.1	6714.7	6747.6	6741.1	6710.2
42.5°	7228.7	7233.1	7270.3	7290.1	7329.6	7353.9	7406.5	7413.2	7452.7	7435.1	7400.0
45°	7995.2	8034.7	8069.8	8109.4	8151.1	8179.6	8221.4	8212.7	8239.0	8212.7	8192.8
47.5°	8801.2	8829.8	8908.9	8970.5	9038.4	9062.7	9122.0	9095.6	9122.0	9084.6	9078.0
50°	9688.7	9739.2	9807.2	9877.6	9950.0	9989.6	10066.4	10033.4	10068.7	10033.4	10013.8
52.5°	10562.9	10576.0	10725.5	10828.6	10929.7	10975.9	11021.9	11006.6	11008.8	11006.6	10986.8
55°	11393.2	11423.8	11573.3	11713.8	11889.5	12019.1	12098.3	12089.4	12069.6	12049.9	12016.9
57.5°	12328.8	12359.6	12530.8	12704.4	12904.3	13088.8	13249.1	13413.9	13477.6	13495.1	13422.7
60°	13594.1	13591.7	13820.2	14031.0	14316.6	14591.2	14942.6	15300.7	15711.4	15902.4	15649.9
62.5°	14881.1	14933.9	15263.3	15636.7	16225.4	16798.7	17446.6	18083.6	18733.8	19263.2	18700.8
65°	14727.4	14929.4	15419.2	16264.9	17352.2	18643.8	20040.6	21518.9	22854.4	23772.4	22742.3
67.5°	12763.7	13051.5	13550.0	14578.1	15937.5	17800.3	20146.1	23069.6	26467.5	28110.5	26074.4
70°	9251.6	9576.7	10099.5	11103.2	12449.6	14220.0	16767.9	20277.9	24776.2	26432.4	24189.7
72.5°	4603.9	4779.5	5102.5	5741.5	6760.7	8197.3	10508.0	13881.8	17861.8	19381.7	17332.3
75°	1563.9	1645.2	1700.1	1908.8	2231.6	2796.2	3944.8	6068.9	9258.1	11098.7	9126.4
77.5°	902.7	905.0	942.3	979.6	1034.6	1096.0	1249.8	1640.8	2837.8	4030.5	2936.6
80°	584.3	582.0	612.9	641.4	678.7	709.4	718.3	760.0	876.3	1038.9	929.0
82.5°	303.1	340.5	408.5	445.9	516.2	529.3	511.8	496.5	525.0	544.7	557.8
85°	166.9	144.9	217.5	281.2	311.9	316.4	316.4	298.7	309.6	303.1	329.5
87.5°	76.8	70.2	85.7	138.3	147.1	125.3	131.8	116.4	83.5	81.2	92.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269524

CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-7027-1200

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8	4759.8
2.5°	4737.8	4739.9	4739.9	4746.6	4748.8	4753.2	4757.6	4759.8
5°	4700.4	4707.1	4702.6	4709.3	4709.3	4713.6	4713.6	4715.8
7.5°	4645.6	4652.1	4652.1	4652.1	4649.9	4656.5	4656.5	4656.5
10°	4588.5	4592.9	4590.7	4586.2	4581.9	4588.5	4586.2	4584.1
12.5°	4570.8	4559.8	4551.2	4546.7	4537.9	4540.2	4533.6	4533.6
15°	4581.9	4562.1	4546.7	4540.2	4531.3	4527.0	4522.5	4524.8
17.5°	4610.5	4586.2	4566.4	4555.5	4544.5	4537.9	4529.2	4531.3
20°	4660.9	4632.4	4603.9	4581.9	4562.1	4551.2	4544.5	4542.3
22.5°	4735.7	4693.9	4652.1	4619.2	4592.9	4577.5	4570.8	4566.4
25°	4821.3	4775.1	4726.8	4689.5	4663.1	4643.3	4630.1	4630.1
27.5°	4928.9	4891.5	4847.7	4803.6	4779.5	4759.8	4751.0	4746.6
30°	5109.0	5073.8	5038.8	4997.0	4966.2	4946.4	4931.1	4918.0
32.5°	5339.6	5311.0	5282.6	5251.9	5223.3	5196.9	5172.7	5161.8
35°	5664.7	5642.8	5623.0	5587.8	5576.9	5561.4	5548.3	5537.3
37.5°	6112.7	6104.1	6104.1	6066.7	6057.9	6051.3	6038.0	6040.4
40°	6701.4	6710.2	6699.3	6686.1	6679.4	6661.9	6661.9	6677.3
42.5°	7397.7	7404.3	7428.4	7406.5	7430.7	7408.7	7395.6	7406.5
45°	8206.0	8230.2	8278.5	8256.5	8272.0	8234.7	8188.5	8190.7
47.5°	9113.1	9135.1	9154.9	9139.5	9141.7	9080.2	9018.8	9003.4
50°	10055.4	10064.3	10075.2	10053.3	10057.7	9989.6	9919.3	9921.5
52.5°	10986.8	11028.5	11072.5	11013.1	10999.9	10923.1	10824.2	10784.7
55°	12052.1	12111.4	12060.9	11957.6	11854.5	11751.2	11621.6	11599.6
57.5°	13365.5	13264.6	13106.5	12910.9	12768.1	12623.2	12491.4	12436.5
60°	15193.0	14813.1	14527.5	14237.5	14055.3	13877.3	13703.9	13677.5
62.5°	17776.1	17119.3	16550.5	15950.8	15461.0	15078.8	14773.5	14687.8
65°	21013.7	19460.8	18114.3	16858.0	15766.3	14942.6	14424.3	14195.8
67.5°	22406.2	19340.0	17031.4	15247.9	13820.2	12823.0	12262.9	11984.0
70°	19689.2	16038.7	13528.0	11742.4	10442.1	9378.9	8871.7	8572.9
72.5°	13545.7	10202.6	8067.7	6585.0	5546.0	4656.5	4305.0	4278.7
75°	6082.1	4028.3	2776.3	2139.4	1801.1	1566.0	1493.6	1438.6
77.5°	1702.3	1258.5	1122.4	1049.8	979.6	898.3	867.7	874.2
80°	828.1	782.0	751.3	705.1	641.4	573.3	542.5	555.7
82.5°	549.1	542.5	562.2	529.3	437.0	371.2	311.9	285.5
85°	333.9	338.2	344.9	347.0	294.4	206.5	140.6	158.1
87.5°	131.8	151.5	164.7	171.3	160.3	98.9	79.1	81.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)