

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: P190998

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40590.7 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 323  
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

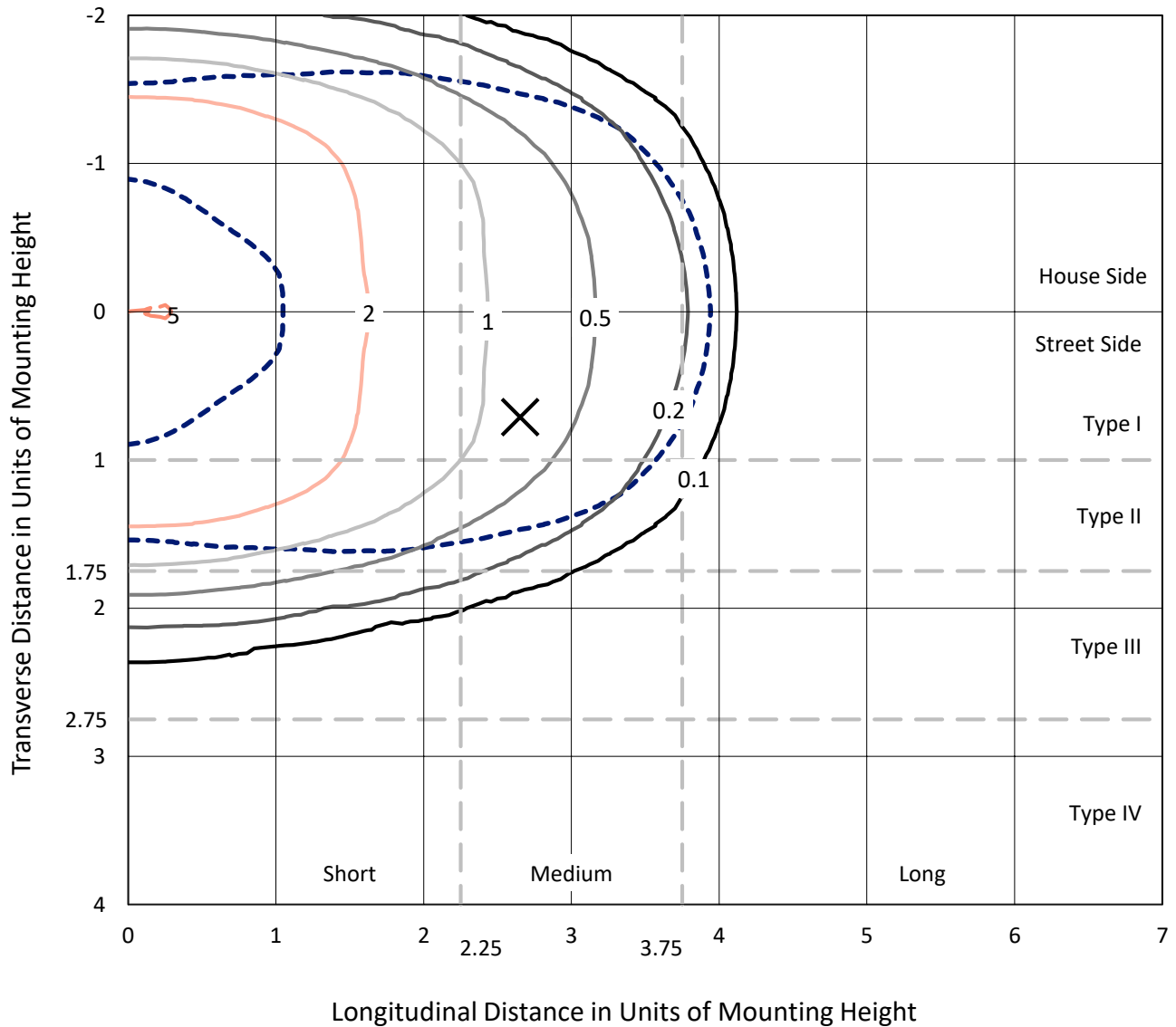


REPORT NUMBER: P190998

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

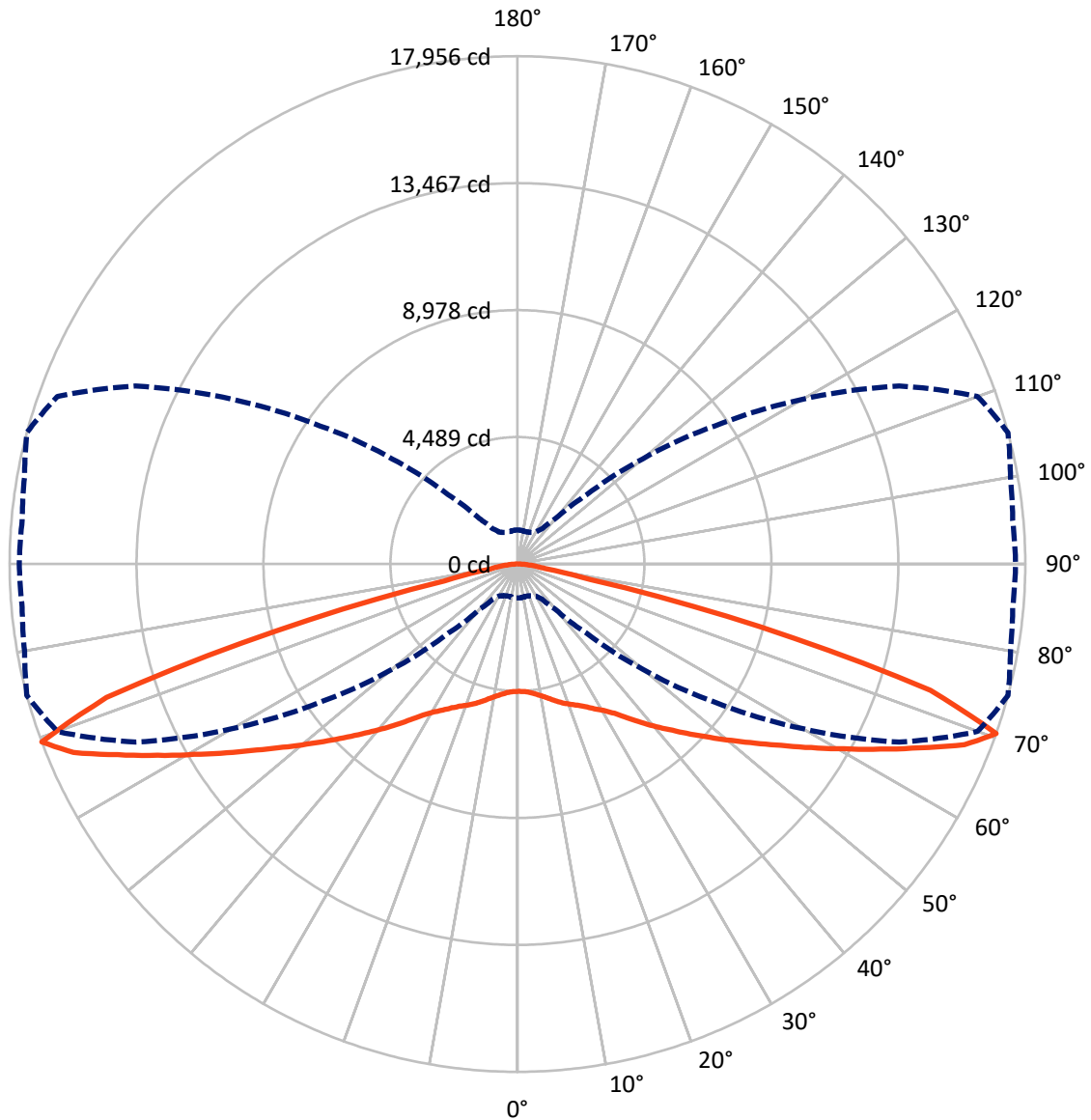


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P190998

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P190998

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20295.3	0.0	20295.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20295.3	0.0	20295.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40590.7	0.0	40590.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.8	1.1
10°-20°	1341.7	3.3
20°-30°	2525.3	6.2
30°-40°	4471.9	11.0
40°-50°	7478.4	18.4
50°-60°	10421.2	25.7
60°-70°	9664.0	23.8
70°-80°	3851.4	9.5
80°-90°	404.8	1.0
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°	40590.7	100.0
0°-180°	40590.7	100.0



REPORT NUMBER: P190998

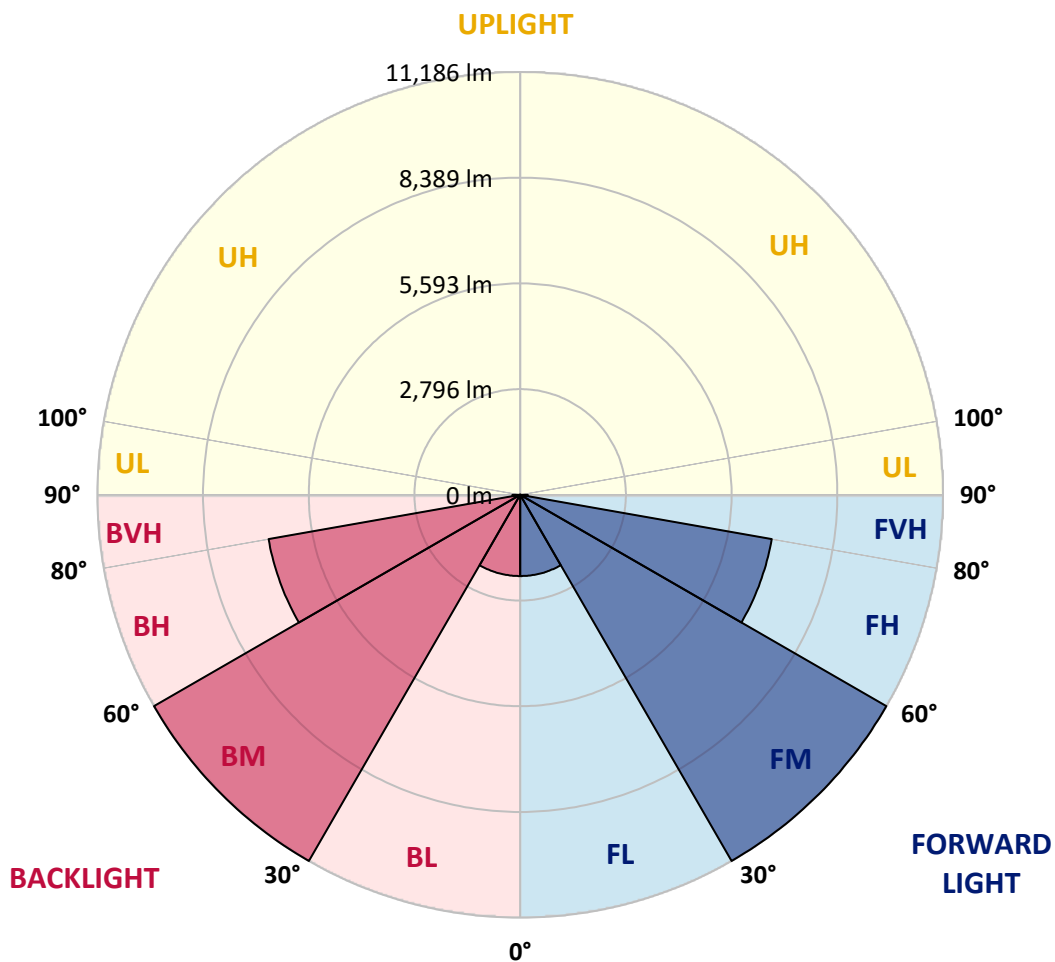
CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.4	5.3			
FM	(30°-60°)	11185.8	27.6			
FH	(60°-80°)	6757.7	16.6			G3/7500
FVH	(80°-90°)	202.4	0.5			G2/225
BL	(0°-30°)	2149.4	5.3	B3/2500		
BM	(30°-60°)	11185.8	27.6	B5		
BH	(60°-80°)	6757.7	16.6	B5		G5
BVH	(80°-90°)	202.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





REPORT NUMBER: P190998

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4
2.5°	4494.7	4491.0	4494.7	4492.9	4496.7	4496.7	4500.6	4508.2	4508.2	4514.0	4512.0
5°	4450.7	4448.7	4454.5	4460.3	4466.0	4477.6	4489.0	4506.3	4519.7	4529.3	4538.9
7.5°	4364.3	4364.3	4372.0	4385.4	4398.9	4423.8	4450.7	4485.2	4519.7	4548.4	4573.4
10°	4293.3	4297.2	4306.8	4329.8	4352.9	4391.2	4427.6	4477.6	4525.4	4573.4	4611.8
12.5°	4251.2	4256.9	4274.2	4308.7	4347.0	4398.9	4454.5	4517.8	4571.5	4629.1	4667.4
15°	4264.6	4268.4	4293.3	4335.6	4385.4	4450.7	4525.4	4600.3	4663.6	4725.0	4776.8
17.5°	4339.4	4345.2	4373.9	4421.9	4473.7	4550.4	4631.0	4715.4	4794.1	4863.1	4926.4
20°	4473.7	4479.4	4515.9	4567.7	4629.1	4707.7	4788.3	4876.5	4964.8	5037.7	5108.6
22.5°	4663.6	4673.1	4707.7	4759.5	4828.5	4913.0	5008.9	5102.9	5187.3	5254.5	5317.8
25°	4913.0	4934.1	4966.7	5024.2	5097.2	5173.9	5277.5	5373.4	5454.0	5517.3	5563.3
27.5°	5265.9	5294.8	5319.7	5375.3	5446.3	5519.2	5622.8	5707.2	5784.0	5845.3	5879.8
30°	5734.0	5762.8	5787.8	5841.5	5906.7	5975.8	6073.6	6148.4	6196.4	6244.4	6242.5
32.5°	6301.9	6332.6	6342.2	6399.8	6466.9	6541.7	6629.9	6672.2	6710.6	6716.3	6681.7
35°	6936.9	6952.3	6990.6	7067.4	7144.1	7205.5	7289.9	7310.9	7310.9	7282.2	7205.5
37.5°	7633.3	7642.9	7696.6	7782.9	7861.6	7924.9	7982.4	8024.6	8003.5	7942.1	7813.6
40°	8396.8	8414.1	8490.8	8567.5	8655.8	8715.2	8776.6	8784.3	8763.2	8673.0	8498.5
42.5°	9125.7	9141.1	9217.8	9338.7	9453.8	9536.3	9593.8	9605.4	9538.2	9455.7	9239.0
45°	9753.1	9793.3	9893.2	10035.0	10202.0	10319.0	10397.7	10430.3	10370.8	10263.4	10012.0
47.5°	10250.0	10290.3	10432.2	10601.0	10808.2	10998.2	11128.6	11197.6	11182.3	11101.7	10827.4
50°	10614.4	10652.8	10806.2	11013.5	11255.2	11491.1	11713.7	11878.6	11936.2	11899.8	11648.4
52.5°	10656.6	10719.9	10900.3	11178.4	11493.1	11815.4	12131.9	12412.0	12601.8	12630.7	12444.6
55°	10067.7	10131.0	10380.4	10792.8	11260.9	11786.5	12293.0	12765.0	13139.0	13330.9	13233.0
57.5°	8678.8	8792.0	9054.8	9538.2	10227.0	11013.5	11821.1	12659.4	13421.0	13929.4	14027.2
60°	6651.0	6785.3	7050.1	7564.2	8331.5	9269.7	10347.8	11587.1	12931.8	14075.2	14758.1
62.5°	4266.5	4393.1	4671.3	5118.2	5743.7	6760.4	7917.2	9388.5	11195.7	13000.9	14627.7
65°	2192.7	2261.7	2407.6	2678.1	3165.3	3925.1	4962.8	6430.5	8496.5	10723.8	13075.8
67.5°	1389.0	1402.4	1435.0	1473.4	1598.1	1860.8	2344.3	3259.3	4959.1	7282.2	10035.0
70°	1200.9	1200.9	1185.6	1179.8	1195.1	1231.6	1306.4	1519.4	2093.0	3457.0	5787.8
72.5°	1099.3	1087.7	1060.9	1039.7	1035.9	1035.9	1051.3	1083.9	1176.0	1408.1	2265.6
75°	1012.9	980.3	943.9	918.9	909.3	899.7	897.8	903.6	922.7	959.2	1082.0
77.5°	907.4	865.2	823.0	798.0	786.5	773.1	761.6	748.2	738.6	750.1	803.8
80°	780.8	732.8	700.2	684.9	673.3	654.2	629.2	606.2	585.1	581.2	613.9
82.5°	629.2	573.6	575.5	581.2	560.2	533.3	506.5	481.5	445.1	425.9	445.1
85°	508.4	479.6	466.2	502.6	471.9	431.7	389.4	345.3	287.8	241.7	262.8
87.5°	197.6	197.6	295.4	454.7	408.6	333.8	285.8	243.7	151.6	117.0	119.0
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: P190998

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4	4502.4
2.5°	4510.1	4514.0	4512.0	4510.1	4510.1	4508.2	4510.1	4510.1
5°	4544.7	4554.3	4554.3	4558.1	4558.1	4560.0	4562.0	4560.0
7.5°	4596.4	4613.7	4625.3	4638.7	4640.6	4642.5	4646.3	4642.5
10°	4648.3	4682.8	4707.7	4732.7	4744.1	4748.0	4751.8	4751.8
12.5°	4713.5	4761.4	4805.5	4849.7	4870.8	4882.3	4882.3	4890.0
15°	4820.9	4868.8	4920.7	4980.1	5016.6	5035.8	5041.5	5041.5
17.5°	4972.5	5014.7	5058.8	5116.3	5162.4	5187.3	5193.1	5191.2
20°	5148.9	5189.2	5214.2	5250.6	5290.9	5319.7	5327.3	5327.3
22.5°	5350.3	5373.4	5377.2	5388.7	5421.3	5459.7	5477.0	5480.9
25°	5572.9	5578.7	5563.3	5563.3	5584.4	5620.9	5638.1	5640.0
27.5°	5860.7	5831.9	5793.5	5780.1	5793.5	5835.7	5856.8	5864.5
30°	6219.4	6150.4	6062.1	6014.1	6006.5	6062.1	6100.5	6106.2
32.5°	6629.9	6530.2	6413.2	6315.3	6290.4	6324.9	6370.9	6369.0
35°	7117.2	6998.3	6856.3	6731.6	6674.0	6708.6	6773.8	6781.4
37.5°	7679.3	7523.9	7360.8	7203.5	7113.4	7123.0	7192.1	7215.1
40°	8306.6	8105.1	7899.9	7688.9	7560.3	7535.5	7619.9	7633.3
42.5°	8978.0	8719.0	8460.1	8199.2	8034.2	7995.8	8093.7	8088.0
45°	9693.6	9363.7	9060.6	8772.8	8577.1	8519.5	8600.2	8600.2
47.5°	10462.8	10056.2	9695.5	9369.4	9156.4	9074.0	9150.7	9156.4
50°	11278.2	10846.6	10422.6	10060.0	9804.9	9699.3	9799.2	9814.5
52.5°	12089.6	11669.5	11241.7	10827.4	10518.5	10390.0	10505.1	10555.0
55°	12912.7	12500.3	12091.6	11686.8	11320.4	11168.9	11291.6	11355.0
57.5°	13781.7	13399.9	13010.5	12601.8	12248.9	12012.9	12143.3	12227.8
60°	14800.4	14474.2	14069.5	13618.6	13261.8	13022.0	13096.8	13171.6
62.5°	15606.0	15732.7	15389.3	14867.5	14409.0	14102.1	14174.9	14253.6
65°	15216.6	16515.4	16820.4	16292.8	15657.9	15180.2	15149.5	15189.8
67.5°	12718.9	15241.6	17081.3	17583.9	17052.5	16388.8	16266.0	16325.5
70°	8508.1	11650.4	14896.3	17313.4	17956.1	17699.0	17578.2	17614.6
72.5°	4086.2	6785.3	10106.0	13319.3	15276.1	16173.9	16461.6	16601.7
75°	1494.4	2693.4	4870.8	7339.8	8861.0	10257.6	11168.9	11541.0
77.5°	901.6	1087.7	1555.8	2342.4	2653.1	2969.6	2846.9	2908.2
80°	667.6	753.9	853.7	959.2	993.7	993.7	955.3	924.6
82.5°	468.1	523.8	571.7	629.2	644.6	615.8	506.5	402.8
85°	301.2	326.1	347.2	383.7	374.1	356.8	239.8	213.0
87.5°	138.1	157.3	165.0	182.3	174.6	166.9	119.0	99.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)