

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: P190814

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190814  
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-06-LED-E1-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38258.4 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 333  
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

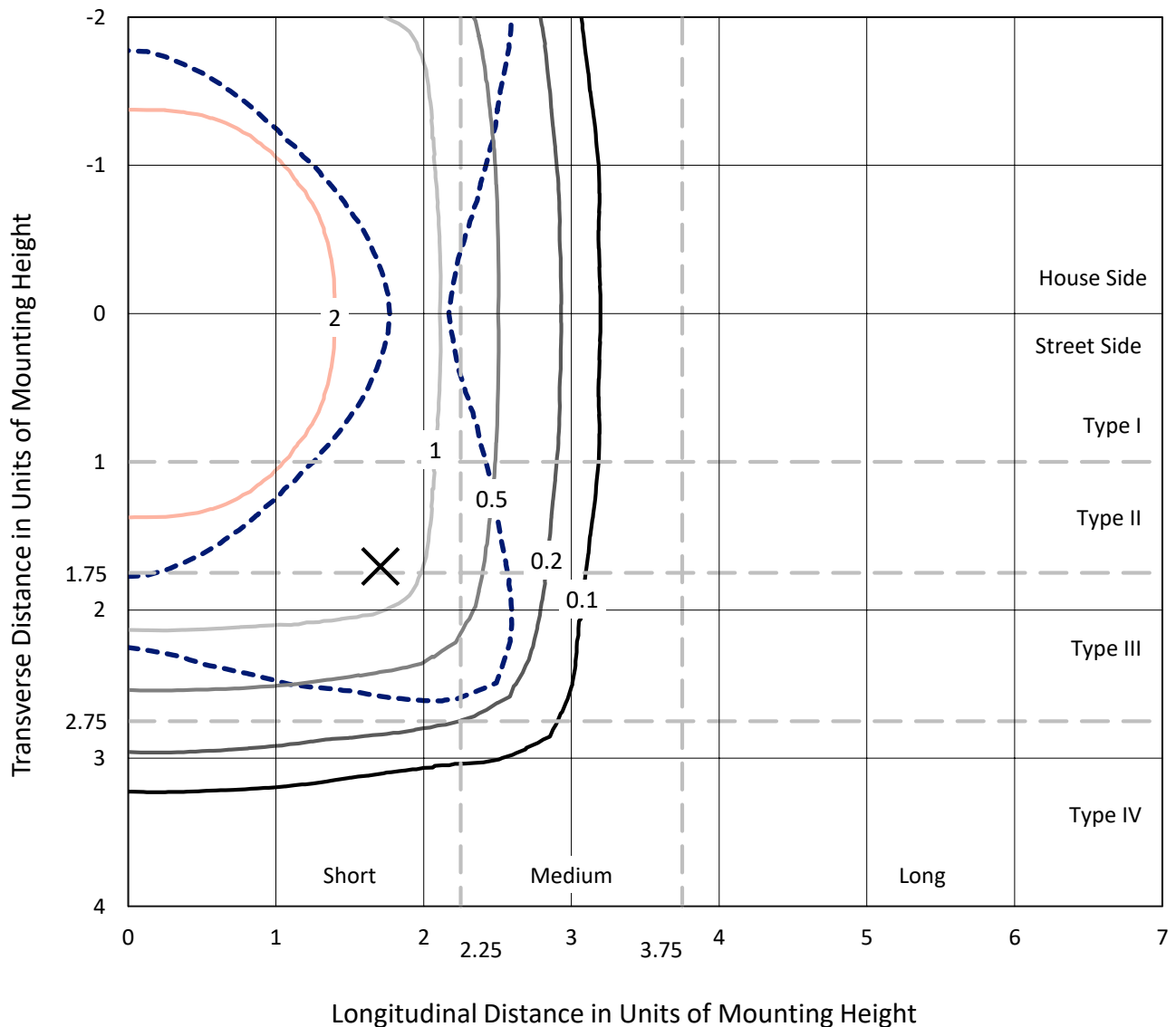


REPORT NUMBER: P190814

CATALOG NUMBER: GLEON-AF-06-LED-E1-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

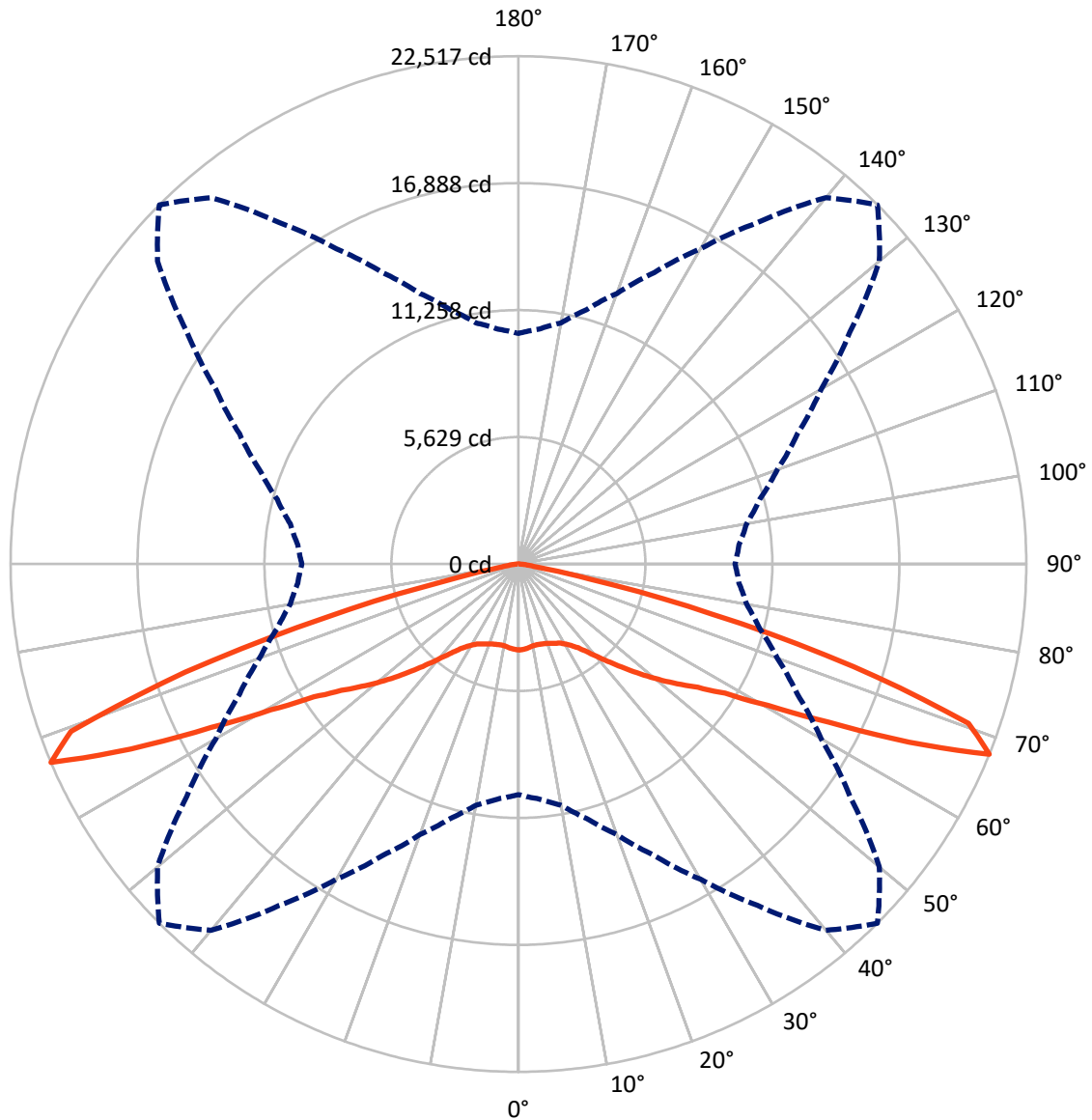
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P190814  
CATALOG NUMBER: GLEON-AF-06-LED-E1-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P190814

CATALOG NUMBER: GLEON-AF-06-LED-E1-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19129.2	0.0	19129.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19129.2	0.0	19129.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38258.4	0.0	38258.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.8	0.9
10°-20°	1035.5	2.7
20°-30°	1760.3	4.6
30°-40°	2877.6	7.5
40°-50°	5137.0	13.4
50°-60°	8661.1	22.6
60°-70°	13440.7	35.1
70°-80°	4722.5	12.3
80°-90°	266.9	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°	38258.4	100.0
0°-180°	38258.4	100.0



REPORT NUMBER: P190814

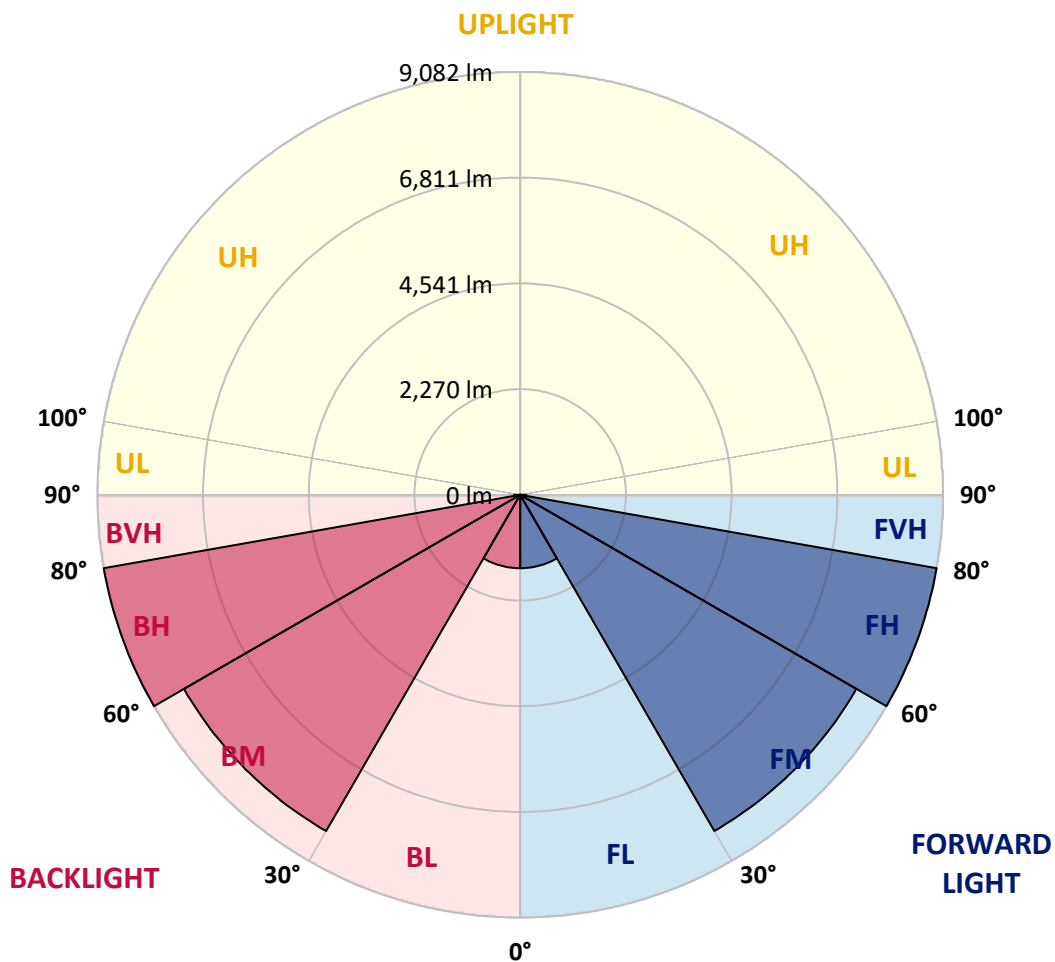
CATALOG NUMBER: GLEON-AF-06-LED-E1-5MQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1576.3	4.1			
FM	(30°-60°)	8337.8	21.8			
FH	(60°-80°)	9081.6	23.7			G4/12000
FVH	(80°-90°)	133.4	0.3			G2/225
BL	(0°-30°)	1576.3	4.1	B3/2500		
BM	(30°-60°)	8337.8	21.8	B4/8500		
BH	(60°-80°)	9081.6	23.7	B5		G4/12000
BVH	(80°-90°)	133.4	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: P190814

CATALOG NUMBER: GLEON-AF-06-LED-E1-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6
2.5°	3798.5	3802.0	3802.0	3802.0	3800.3	3800.3	3796.8	3800.3	3798.5	3793.2	3795.0
5°	3766.8	3770.4	3770.4	3768.7	3773.9	3772.1	3766.8	3770.4	3768.7	3765.1	3766.8
7.5°	3721.1	3726.4	3726.4	3724.7	3729.9	3728.1	3724.7	3726.4	3726.4	3721.1	3721.1
10°	3670.1	3673.6	3673.6	3671.9	3680.7	3680.7	3678.9	3684.2	3685.9	3680.7	3677.1
12.5°	3622.6	3627.9	3627.9	3635.0	3643.8	3647.2	3656.0	3663.1	3670.1	3668.3	3661.3
15°	3594.4	3597.9	3605.0	3613.8	3627.9	3640.2	3654.3	3670.1	3684.2	3687.7	3677.1
17.5°	3576.8	3582.2	3592.7	3605.0	3624.3	3645.5	3666.6	3687.7	3707.1	3714.1	3701.8
20°	3571.5	3575.1	3585.6	3606.7	3633.1	3664.8	3694.7	3719.3	3745.7	3754.5	3745.7
22.5°	3582.2	3589.1	3601.5	3626.2	3661.3	3701.8	3736.9	3770.4	3803.8	3819.6	3807.3
25°	3629.6	3636.7	3652.5	3684.2	3722.9	3765.1	3805.6	3844.2	3874.2	3890.0	3881.2
27.5°	3717.6	3726.4	3745.7	3777.5	3819.6	3865.4	3909.4	3941.0	3965.7	3971.0	3960.4
30°	3849.6	3868.9	3891.8	3927.0	3976.2	4015.0	4059.0	4087.1	4117.0	4117.0	4108.2
32.5°	4055.4	4074.7	4099.4	4132.8	4171.5	4213.7	4252.4	4277.1	4308.8	4310.5	4289.4
35°	4363.3	4372.1	4393.2	4414.3	4449.5	4486.5	4519.9	4535.8	4562.2	4563.9	4544.6
37.5°	4769.7	4771.5	4785.6	4792.6	4824.2	4864.7	4896.4	4907.0	4931.5	4928.1	4908.7
40°	5243.0	5251.8	5257.0	5267.6	5301.0	5339.8	5373.2	5378.5	5404.9	5399.5	5375.0
42.5°	5790.2	5793.7	5823.6	5839.4	5871.1	5890.5	5932.7	5937.9	5969.6	5955.5	5927.4
45°	6404.2	6435.9	6464.0	6495.6	6529.1	6552.0	6585.5	6578.4	6599.5	6578.4	6562.5
47.5°	7049.9	7072.8	7136.1	7185.4	7239.9	7259.3	7306.7	7285.7	7306.7	7276.9	7271.5
50°	7760.7	7801.1	7855.6	7912.0	7970.0	8001.7	8063.3	8036.9	8065.0	8036.9	8021.1
52.5°	8460.9	8471.5	8591.2	8673.8	8754.7	8791.6	8828.7	8816.3	8818.0	8816.3	8800.4
55°	9125.9	9150.6	9270.3	9382.8	9523.6	9627.4	9690.7	9683.7	9667.9	9652.1	9625.7
57.5°	9875.5	9900.1	10037.3	10176.3	10336.4	10484.2	10612.7	10744.7	10795.6	10809.7	10751.6
60°	10888.9	10887.2	11070.1	11239.1	11467.7	11687.6	11969.1	12256.0	12585.0	12738.0	12535.6
62.5°	11919.9	11962.1	12226.0	12525.1	12996.7	13455.9	13974.8	14485.1	15005.9	15429.9	14979.5
65°	11796.8	11958.6	12350.9	13028.3	13899.2	14933.8	16052.8	17236.8	18306.5	19041.9	18216.8
67.5°	10223.9	10454.4	10853.7	11677.1	12766.1	14258.1	16137.2	18478.9	21200.7	22516.7	20885.8
70°	7410.6	7671.0	8089.7	8893.7	9972.2	11390.4	13431.2	16242.7	19846.0	21172.5	19376.2
72.5°	3687.7	3828.4	4087.1	4599.1	5415.4	6566.0	8416.9	11119.4	14307.4	15524.9	13883.4
75°	1252.7	1317.8	1361.8	1528.9	1787.5	2239.8	3159.9	4861.2	7415.9	8890.3	7310.3
77.5°	723.1	724.9	754.7	784.7	828.7	877.9	1001.1	1314.3	2273.1	3228.5	2352.3
80°	468.0	466.3	490.9	513.7	543.7	568.2	575.3	608.8	701.9	832.2	744.2
82.5°	242.7	272.7	327.2	357.1	413.5	424.0	409.9	397.6	420.5	436.3	446.9
85°	133.7	116.1	174.2	225.2	249.8	253.4	253.4	239.3	248.1	242.7	263.9
87.5°	61.6	56.3	68.6	110.9	117.8	100.2	105.6	93.3	66.9	65.1	73.9
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: P190814

CATALOG NUMBER: GLEON-AF-06-LED-E1-5MQ

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6	3812.6
2.5°	3795.0	3796.8	3796.8	3802.0	3803.8	3807.3	3810.8	3812.6
5°	3765.1	3770.4	3766.8	3772.1	3772.1	3775.6	3775.6	3777.5
7.5°	3721.1	3726.4	3726.4	3726.4	3724.7	3729.9	3729.9	3729.9
10°	3675.4	3678.9	3677.1	3673.6	3670.1	3675.4	3673.6	3671.9
12.5°	3661.3	3652.5	3645.5	3641.9	3635.0	3636.7	3631.4	3631.4
15°	3670.1	3654.3	3641.9	3636.7	3629.6	3626.2	3622.6	3624.3
17.5°	3693.0	3673.6	3657.8	3649.0	3640.2	3635.0	3627.9	3629.6
20°	3733.5	3710.5	3687.7	3670.1	3654.3	3645.5	3640.2	3638.4
22.5°	3793.2	3759.9	3726.4	3700.0	3678.9	3666.6	3661.3	3657.8
25°	3861.8	3824.9	3786.2	3756.3	3735.2	3719.3	3708.8	3708.8
27.5°	3948.1	3918.2	3883.0	3847.8	3828.4	3812.6	3805.6	3802.0
30°	4092.3	4064.2	4036.1	4002.6	3977.9	3962.2	3949.8	3939.3
32.5°	4277.1	4254.2	4231.3	4206.7	4183.9	4162.7	4143.4	4134.6
35°	4537.5	4519.9	4504.1	4475.9	4467.1	4454.7	4444.2	4435.4
37.5°	4896.4	4889.4	4889.4	4859.4	4852.4	4847.2	4836.6	4838.4
40°	5367.9	5375.0	5366.2	5355.6	5350.3	5336.2	5336.2	5348.6
42.5°	5925.6	5931.0	5950.3	5932.7	5952.0	5934.4	5923.9	5932.7
45°	6573.1	6592.4	6631.2	6613.6	6625.9	6596.0	6559.1	6560.8
47.5°	7299.8	7317.3	7333.1	7320.8	7322.6	7273.4	7224.1	7211.8
50°	8054.5	8061.6	8070.4	8052.8	8056.2	8001.7	7945.5	7947.2
52.5°	8800.4	8833.9	8869.1	8821.6	8811.1	8749.5	8670.3	8638.6
55°	9653.8	9701.3	9660.8	9578.1	9495.4	9412.8	9309.0	9291.4
57.5°	10705.9	10625.0	10498.3	10341.7	10227.4	10111.3	10005.7	9961.7
60°	12169.7	11865.3	11636.7	11404.4	11258.4	11115.9	10976.9	10955.7
62.5°	14238.8	13712.8	13257.0	12776.8	12384.4	12078.3	11833.7	11765.1
65°	16832.1	15588.2	14509.7	13503.4	12628.9	11969.1	11553.9	11370.9
67.5°	17947.6	15491.5	13642.4	12213.7	11070.1	10271.3	9822.7	9599.3
70°	15771.2	12847.1	10836.1	9405.7	8364.2	7512.7	7106.2	6866.9
72.5°	10850.1	8172.4	6462.3	5274.6	4442.5	3729.9	3448.4	3427.3
75°	4871.8	3226.7	2223.9	1713.6	1442.7	1254.4	1196.3	1152.4
77.5°	1363.5	1008.1	899.1	841.0	784.7	719.5	695.0	700.2
80°	663.3	626.4	601.7	564.8	513.7	459.2	434.5	445.1
82.5°	439.9	434.5	450.4	424.0	350.2	297.4	249.8	228.7
85°	267.4	271.0	276.2	277.9	235.8	165.4	112.6	126.6
87.5°	105.6	121.4	132.0	137.3	128.5	79.2	63.3	65.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)