

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: P190798

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190798  
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-10-LED-E1-5MQ-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41714.9 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

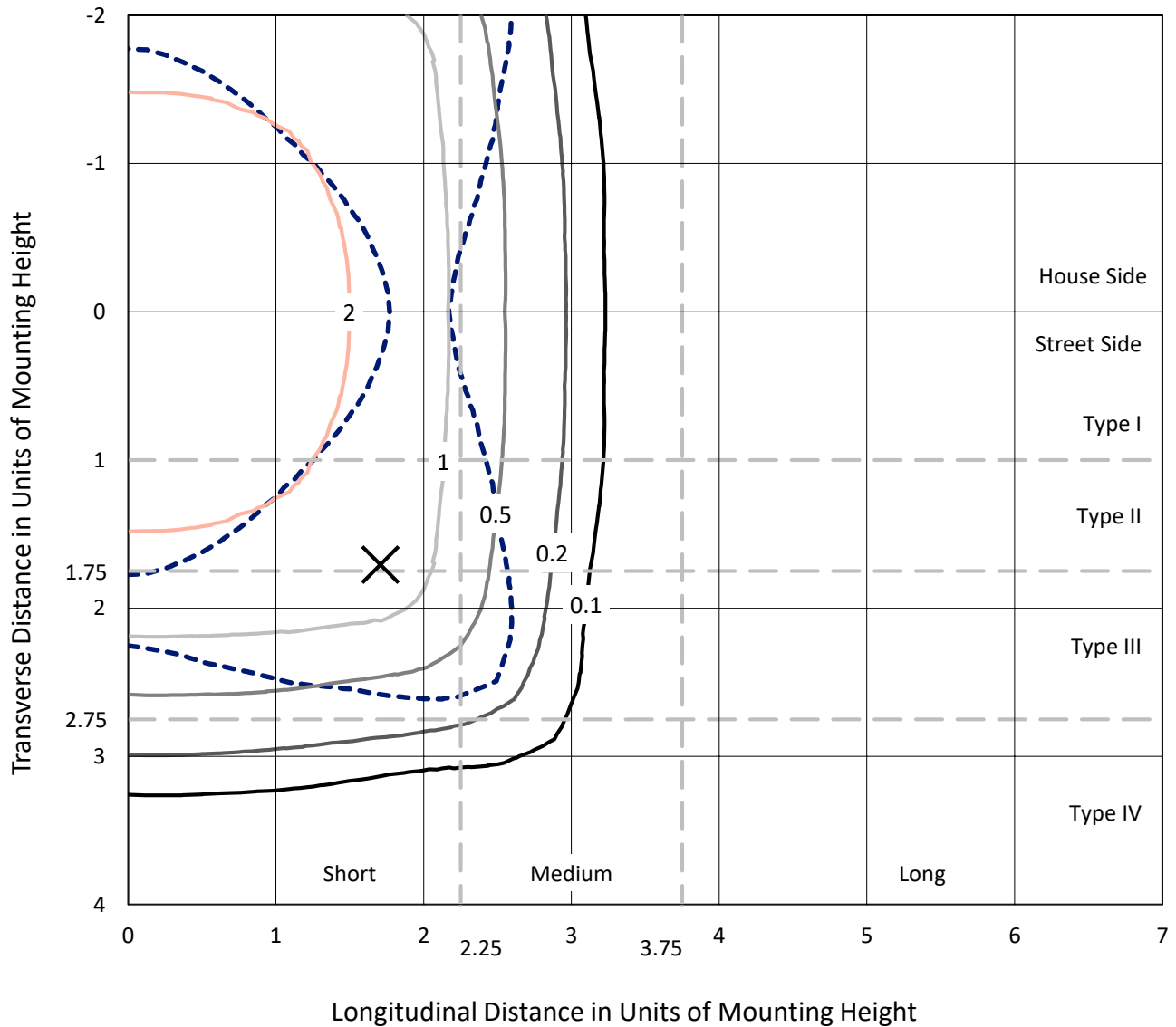
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

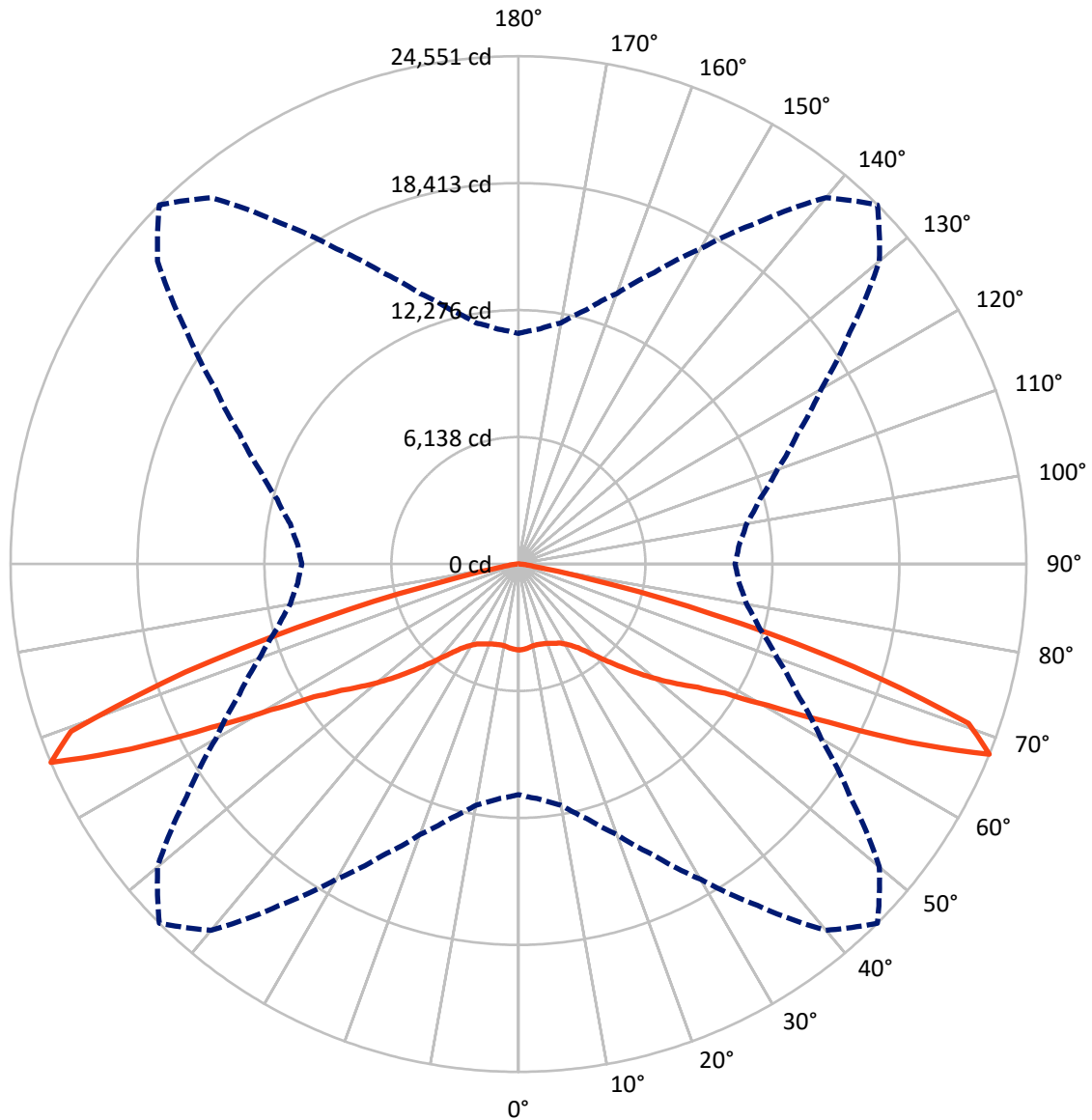
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20857.5	0.0	20857.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20857.5	0.0	20857.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41714.9	0.0	41714.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.1	0.9
10°-20°	1129.0	2.7
20°-30°	1919.3	4.6
30°-40°	3137.5	7.5
40°-50°	5601.1	13.4
50°-60°	9443.6	22.6
60°-70°	14655.1	35.1
70°-80°	5149.1	12.3
80°-90°	291.0	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°	41714.9	100.0
0°-180°	41714.9	100.0



REPORT NUMBER: P190798

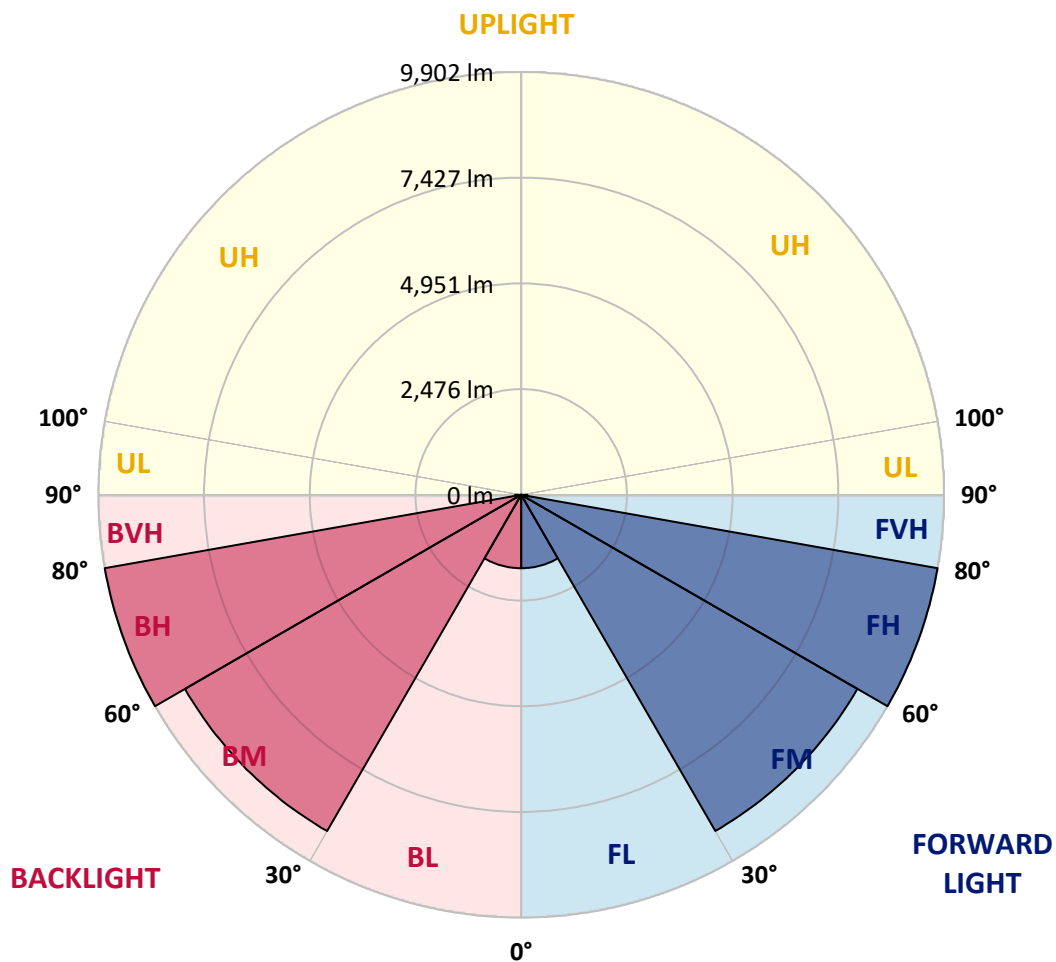
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1718.7	4.1			
FM	(30°-60°)	9091.1	21.8			
FH	(60°-80°)	9902.1	23.7			G4/12000
FVH	(80°-90°)	145.5	0.3			G2/225
BL	(0°-30°)	1718.7	4.1	B3/2500		
BM	(30°-60°)	9091.1	21.8	B5		
BH	(60°-80°)	9902.1	23.7	B5		G4/12000
BVH	(80°-90°)	145.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1
2.5°	4141.7	4145.5	4145.5	4145.5	4143.7	4143.7	4139.8	4143.7	4141.7	4136.0	4137.8
5°	4107.1	4111.0	4111.0	4109.1	4114.8	4113.0	4107.1	4111.0	4109.1	4105.3	4107.1
7.5°	4057.3	4063.1	4063.1	4061.1	4066.9	4065.0	4061.1	4063.1	4063.1	4057.3	4057.3
10°	4001.7	4005.5	4005.5	4003.6	4013.2	4013.2	4011.3	4017.0	4019.0	4013.2	4009.4
12.5°	3949.9	3955.6	3955.6	3963.3	3972.9	3976.7	3986.3	3994.0	4001.7	3999.7	3992.1
15°	3919.2	3923.0	3930.7	3940.3	3955.6	3969.0	3984.4	4001.7	4017.0	4020.9	4009.4
17.5°	3900.0	3905.7	3917.3	3930.7	3951.8	3974.8	3997.8	4020.9	4042.0	4049.7	4036.3
20°	3894.3	3898.1	3909.6	3932.6	3961.4	3996.0	4028.6	4055.4	4084.1	4093.7	4084.1
22.5°	3905.7	3913.4	3926.9	3953.7	3992.1	4036.3	4074.6	4111.0	4147.5	4164.7	4151.3
25°	3957.6	3965.3	3982.4	4017.0	4059.3	4105.3	4149.4	4191.6	4224.2	4241.5	4231.8
27.5°	4053.4	4063.1	4084.1	4118.7	4164.7	4214.7	4262.5	4297.1	4324.0	4329.7	4318.2
30°	4197.4	4218.4	4243.4	4281.8	4335.5	4377.7	4425.6	4456.3	4488.9	4488.9	4479.4
32.5°	4421.8	4442.9	4469.8	4506.2	4548.4	4594.5	4636.6	4663.5	4698.0	4699.9	4676.9
35°	4757.5	4767.1	4790.2	4813.2	4851.5	4891.8	4928.3	4945.6	4974.3	4976.2	4955.1
37.5°	5200.7	5202.5	5217.9	5225.5	5260.1	5304.2	5338.8	5350.2	5377.1	5373.3	5352.2
40°	5716.7	5726.3	5732.0	5743.6	5780.0	5822.2	5858.6	5864.4	5893.2	5887.4	5860.6
42.5°	6313.2	6317.1	6349.8	6367.1	6401.5	6422.6	6468.6	6474.5	6508.9	6493.6	6462.9
45°	6982.8	7017.3	7048.0	7082.5	7119.0	7144.0	7180.4	7172.7	7195.7	7172.7	7155.4
47.5°	7686.9	7711.8	7780.9	7834.6	7894.0	7915.1	7966.9	7943.9	7966.9	7934.3	7928.6
50°	8461.8	8505.9	8565.5	8626.9	8690.2	8724.6	8791.9	8763.0	8793.7	8763.0	8745.7
52.5°	9225.4	9236.8	9367.3	9457.5	9545.7	9586.0	9626.3	9612.9	9614.8	9612.9	9595.6
55°	9950.4	9977.4	10107.8	10230.5	10384.1	10497.2	10566.3	10558.6	10541.3	10524.1	10495.3
57.5°	10767.7	10794.6	10944.2	11095.7	11270.4	11431.5	11571.5	11715.3	11771.0	11786.3	11723.0
60°	11872.7	11870.7	12070.3	12254.4	12503.8	12743.6	13050.5	13363.2	13722.0	13888.9	13668.3
62.5°	12996.8	13042.8	13330.6	13656.7	14170.8	14671.6	15237.5	15793.7	16361.6	16824.0	16332.8
65°	12862.6	13039.0	13466.8	14205.4	15155.0	16282.9	17503.0	18794.1	19960.4	20762.3	19862.6
67.5°	11147.5	11398.8	11834.3	12732.1	13919.6	15546.3	17595.2	20148.4	23116.1	24551.0	22772.7
70°	8080.1	8364.1	8820.6	9697.3	10873.3	12419.4	14644.7	17710.2	21639.0	23085.4	21126.8
72.5°	4020.9	4174.4	4456.3	5014.6	5904.7	7159.3	9177.4	12124.0	15600.0	16927.5	15137.7
75°	1365.8	1436.8	1484.8	1667.0	1949.0	2442.1	3445.4	5300.4	8085.8	9693.4	7970.7
77.5°	788.5	790.3	823.0	855.6	903.6	957.3	1091.6	1433.1	2478.5	3520.2	2564.8
80°	510.2	508.4	535.2	560.2	592.8	619.6	627.3	663.8	765.4	907.4	811.5
82.5°	264.7	297.4	356.8	389.4	450.8	462.3	446.9	433.5	458.5	475.8	487.2
85°	145.8	126.6	190.0	245.5	272.4	276.2	276.2	260.9	270.5	264.7	287.8
87.5°	67.1	61.4	74.8	120.8	128.5	109.4	115.1	101.7	72.9	71.0	80.6
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°	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1	4157.1
2.5°	4137.8	4139.8	4139.8	4145.5	4147.5	4151.3	4155.1	4157.1
5°	4105.3	4111.0	4107.1	4113.0	4113.0	4116.8	4116.8	4118.7
7.5°	4057.3	4063.1	4063.1	4063.1	4061.1	4066.9	4066.9	4066.9
10°	4007.4	4011.3	4009.4	4005.5	4001.7	4007.4	4005.5	4003.6
12.5°	3992.1	3982.4	3974.8	3971.0	3963.3	3965.3	3959.4	3959.4
15°	4001.7	3984.4	3971.0	3965.3	3957.6	3953.7	3949.9	3951.8
17.5°	4026.6	4005.5	3988.3	3978.7	3969.0	3963.3	3955.6	3957.6
20°	4070.7	4045.8	4020.9	4001.7	3984.4	3974.8	3969.0	3967.1
22.5°	4136.0	4099.5	4063.1	4034.3	4011.3	3997.8	3992.1	3988.3
25°	4210.8	4170.5	4128.3	4095.7	4072.7	4055.4	4043.9	4043.9
27.5°	4304.8	4272.1	4233.8	4195.4	4174.4	4157.1	4149.4	4145.5
30°	4462.1	4431.4	4400.7	4364.2	4337.4	4320.1	4306.7	4295.2
32.5°	4663.5	4638.6	4613.6	4586.8	4561.8	4538.8	4517.8	4508.1
35°	4947.4	4928.3	4911.0	4880.3	4870.7	4857.3	4845.7	4836.2
37.5°	5338.8	5331.1	5331.1	5298.5	5290.8	5285.1	5273.5	5275.5
40°	5852.9	5860.6	5851.0	5839.4	5833.7	5818.3	5818.3	5831.7
42.5°	6461.0	6466.8	6487.9	6468.6	6489.8	6470.6	6459.1	6468.6
45°	7167.0	7188.1	7230.2	7211.1	7224.5	7191.9	7151.7	7153.5
47.5°	7959.3	7978.4	7995.7	7982.3	7984.1	7930.4	7876.7	7863.3
50°	8782.2	8789.9	8799.5	8780.3	8784.1	8724.6	8663.3	8665.2
52.5°	9595.6	9632.0	9670.4	9618.6	9607.1	9539.9	9453.6	9419.1
55°	10526.0	10577.8	10533.6	10443.5	10353.4	10263.2	10150.0	10130.8
57.5°	11673.2	11584.9	11446.8	11276.1	11151.4	11024.8	10909.7	10861.7
60°	13269.2	12937.4	12688.0	12434.8	12275.5	12120.1	11968.6	11945.6
62.5°	15525.2	14951.7	14454.8	13931.1	13503.3	13169.5	12902.8	12828.0
65°	18352.9	16996.6	15820.7	14723.3	13769.9	13050.5	12597.8	12398.3
67.5°	19569.0	16891.1	14874.9	13317.2	12070.3	11199.4	10710.2	10466.5
70°	17196.1	14007.8	11815.1	10255.5	9119.8	8191.4	7748.2	7487.3
72.5°	11830.4	8910.7	7046.1	5751.2	4843.9	4066.9	3760.0	3736.9
75°	5311.9	3518.2	2424.8	1868.5	1573.1	1367.8	1304.5	1256.5
77.5°	1486.8	1099.3	980.3	917.0	855.6	784.6	757.7	763.5
80°	723.2	682.9	656.1	615.8	560.2	500.7	473.8	485.4
82.5°	479.6	473.8	491.1	462.3	381.8	324.2	272.4	249.4
85°	291.5	295.4	301.2	303.1	257.1	180.3	122.8	138.1
87.5°	115.1	132.4	143.8	149.7	140.0	86.3	69.0	71.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)