

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: P300710

Luminaire Tested: **GLNA-AF-10-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300710  
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: GLNA-AF-10-LED-E1-RW-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND  
Rectangular Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

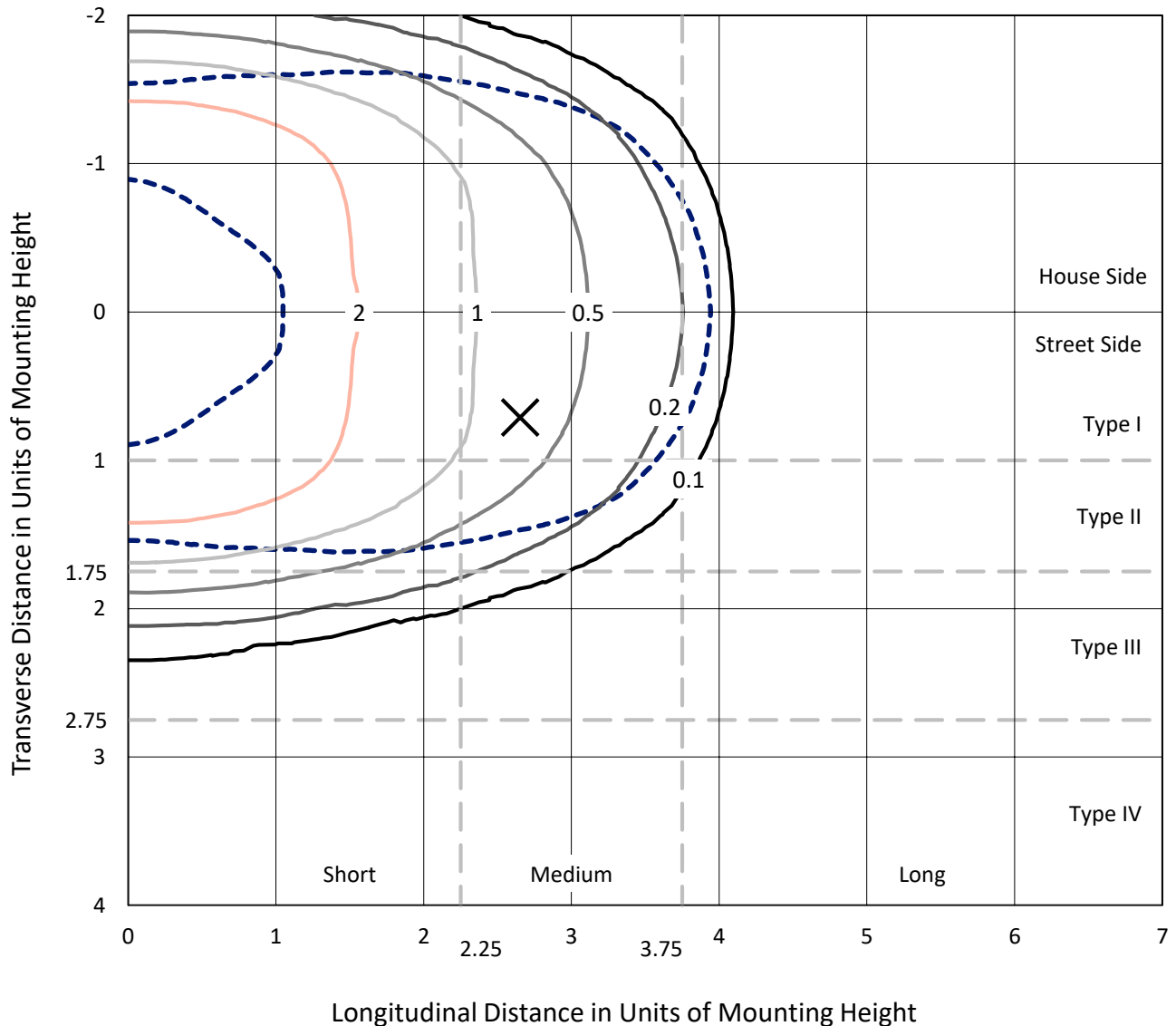
Lumens per Lamp: N/A  
Luminaire Lumens: 38244.8 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (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



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### Iso-Footcandle Lines of Horizontal Illumination

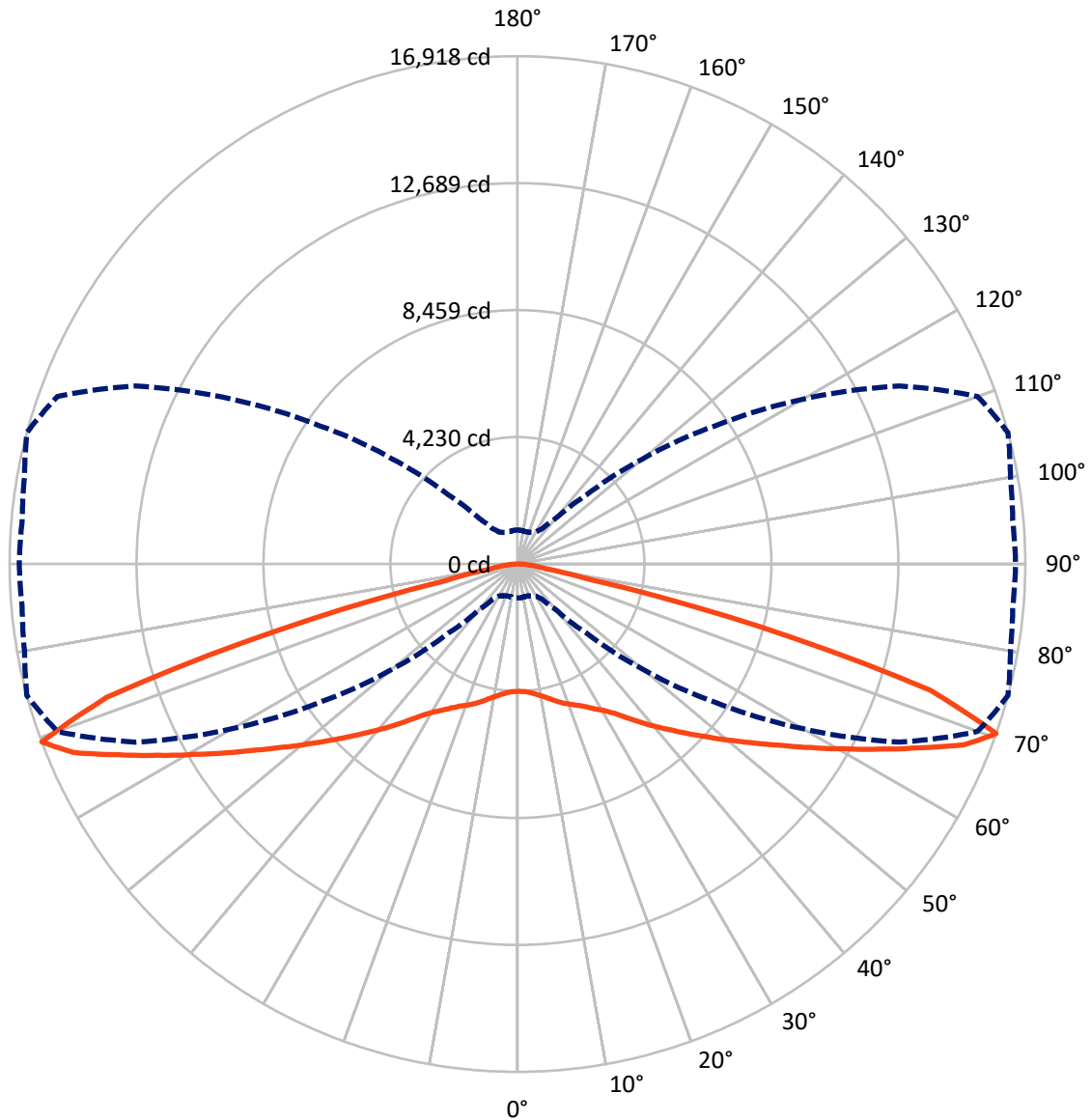
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19122.4	0.0	19122.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19122.4	0.0	19122.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38244.8	0.0	38244.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.9	1.1
10°-20°	1264.2	3.3
20°-30°	2379.4	6.2
30°-40°	4213.5	11.0
40°-50°	7046.2	18.4
50°-60°	9819.0	25.7
60°-70°	9105.5	23.8
70°-80°	3628.8	9.5
80°-90°	381.4	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°	38244.8	100.0
0°-180°	38244.8	100.0



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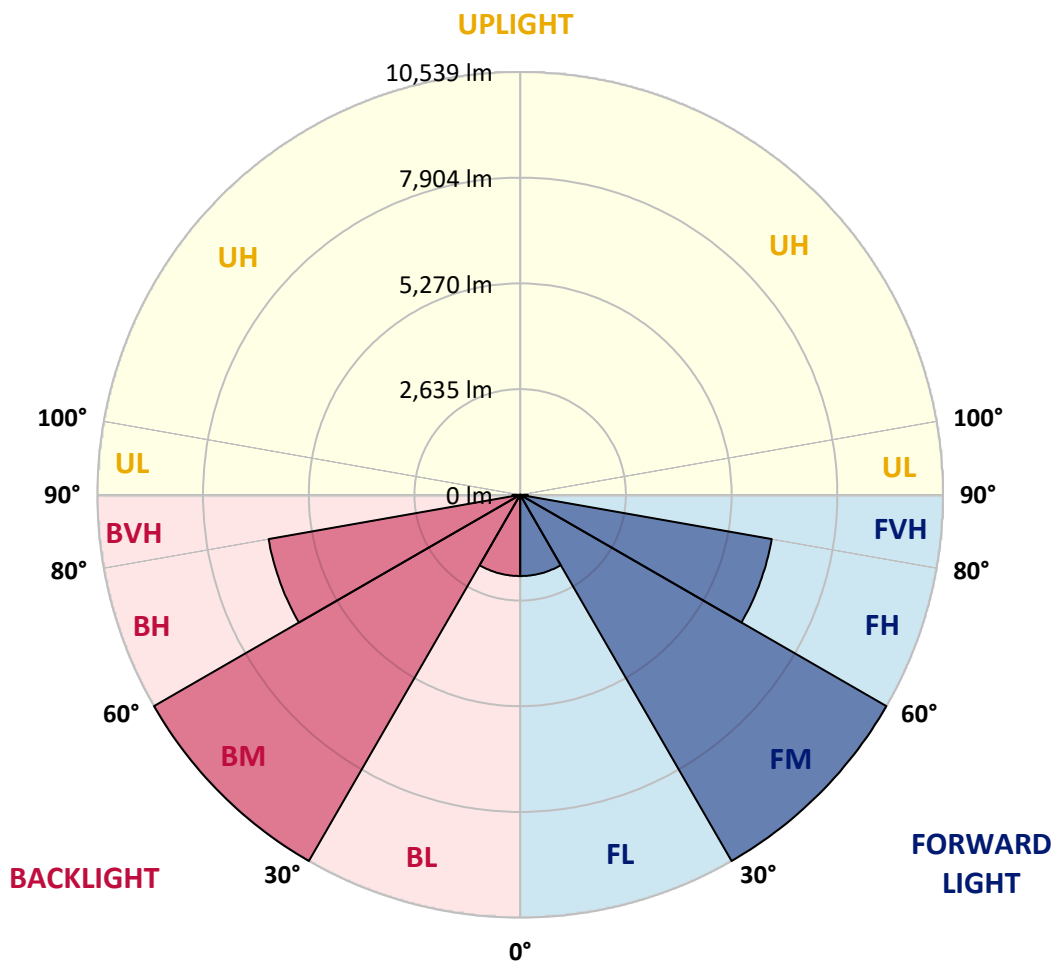
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2025.2	5.3			
FM	(30°-60°)	10539.3	27.6			
FH	(60°-80°)	6367.2	16.6			G3/7500
FVH	(80°-90°)	190.7	0.5			G2/225
BL	(0°-30°)	2025.2	5.3	B3/2500		
BM	(30°-60°)	10539.3	27.6	B5		
BH	(60°-80°)	6367.2	16.6	B5		G5
BVH	(80°-90°)	190.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2
2.5°	4235.0	4231.4	4235.0	4233.2	4236.8	4236.8	4240.4	4247.7	4247.7	4253.1	4251.3
5°	4193.4	4191.6	4197.1	4202.5	4207.9	4218.7	4229.6	4245.9	4258.5	4267.5	4276.6
7.5°	4112.1	4112.1	4119.3	4132.0	4144.6	4168.1	4193.4	4226.0	4258.5	4285.6	4309.1
10°	4045.2	4048.8	4057.9	4079.6	4101.3	4137.4	4171.8	4218.7	4263.9	4309.1	4345.3
12.5°	4005.5	4010.9	4027.1	4059.7	4095.8	4144.6	4197.1	4256.7	4307.3	4361.5	4397.7
15°	4018.1	4021.7	4045.2	4085.0	4132.0	4193.4	4263.9	4334.4	4394.1	4451.9	4500.7
17.5°	4088.6	4094.0	4121.1	4166.3	4215.1	4287.4	4363.3	4442.9	4517.0	4582.1	4641.7
20°	4215.1	4220.6	4254.9	4303.7	4361.5	4435.6	4511.6	4594.7	4677.9	4746.5	4813.4
22.5°	4394.1	4403.1	4435.6	4484.5	4549.5	4629.1	4719.4	4808.0	4887.5	4950.8	5010.4
25°	4629.1	4648.9	4679.7	4733.9	4802.6	4874.9	4972.5	5062.9	5138.8	5198.4	5241.8
27.5°	4961.6	4988.7	5012.2	5064.7	5131.5	5200.2	5297.8	5377.4	5449.7	5507.5	5540.0
30°	5402.7	5429.8	5453.3	5503.9	5565.3	5630.4	5722.6	5793.1	5838.3	5883.5	5881.7
32.5°	5937.7	5966.6	5975.7	6029.9	6093.1	6163.6	6246.8	6286.5	6322.7	6328.1	6295.6
35°	6536.0	6550.4	6586.6	6658.9	6731.2	6789.0	6868.6	6888.5	6888.5	6861.3	6789.0
37.5°	7192.1	7201.2	7251.8	7333.1	7407.2	7466.9	7521.1	7560.8	7541.0	7483.1	7362.0
40°	7911.5	7927.8	8000.1	8072.4	8155.5	8211.6	8269.4	8276.6	8256.7	8171.8	8007.3
42.5°	8598.4	8612.8	8685.1	8799.0	8907.4	8985.2	9039.4	9050.2	8987.0	8909.3	8705.0
45°	9189.4	9227.4	9321.4	9455.1	9612.4	9722.6	9796.7	9827.5	9771.4	9670.2	9433.4
47.5°	9657.6	9695.5	9829.3	9988.3	10183.6	10362.5	10485.4	10550.5	10536.0	10460.1	10201.6
50°	10001.0	10037.1	10181.7	10377.0	10604.7	10827.0	11036.7	11192.2	11246.4	11212.0	10975.2
52.5°	10040.8	10100.4	10270.3	10532.4	10828.8	11132.5	11430.7	11694.6	11873.6	11900.7	11725.4
55°	9485.9	9545.5	9780.5	10169.1	10610.1	11105.4	11582.6	12027.2	12379.7	12560.4	12468.3
57.5°	8177.2	8283.9	8531.5	8987.0	9635.9	10377.0	11137.9	11927.8	12645.4	13124.4	13216.6
60°	6266.7	6393.2	6642.6	7127.0	7850.0	8733.9	9749.8	10917.4	12184.5	13261.8	13905.2
62.5°	4019.9	4139.2	4401.3	4822.5	5411.7	6369.7	7459.6	8846.0	10548.7	12249.5	13782.3
65°	2066.0	2131.1	2268.4	2523.3	2982.4	3698.2	4676.0	6058.8	8005.5	10104.0	12320.0
67.5°	1308.6	1321.3	1352.0	1388.2	1505.7	1753.3	2208.8	3071.0	4672.4	6861.3	9455.1
70°	1131.5	1131.5	1117.0	1111.6	1126.1	1160.4	1230.9	1431.6	1972.0	3257.1	5453.3
72.5°	1035.7	1024.9	999.6	979.7	976.1	976.1	990.5	1021.2	1108.0	1326.7	2134.7
75°	954.4	923.6	889.3	865.8	856.8	847.7	845.9	851.3	869.4	903.8	1019.4
77.5°	855.0	815.2	775.4	751.9	741.1	728.4	717.6	704.9	695.9	706.7	757.3
80°	735.7	690.5	659.7	645.3	634.4	616.4	592.9	571.2	551.3	547.7	578.4
82.5°	592.9	540.4	542.3	547.7	527.8	502.5	477.2	453.7	419.3	401.3	419.3
85°	479.0	451.9	439.2	473.6	444.6	406.7	366.9	325.4	271.1	227.7	247.6
87.5°	186.2	186.2	278.4	428.4	385.0	314.5	269.3	229.6	142.8	110.3	112.1
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°	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2	4242.2
2.5°	4249.5	4253.1	4251.3	4249.5	4249.5	4247.7	4249.5	4249.5
5°	4282.0	4291.0	4291.0	4294.7	4294.7	4296.5	4298.3	4296.5
7.5°	4330.8	4347.1	4357.9	4370.6	4372.4	4374.2	4377.8	4374.2
10°	4379.6	4412.2	4435.6	4459.1	4470.0	4473.6	4477.2	4477.2
12.5°	4441.1	4486.3	4527.8	4569.4	4589.3	4600.1	4600.1	4607.4
15°	4542.3	4587.5	4636.3	4692.3	4726.7	4744.7	4750.2	4750.2
17.5°	4685.1	4724.9	4766.4	4820.6	4864.0	4887.5	4893.0	4891.1
20°	4851.4	4889.3	4912.8	4947.2	4985.1	5012.2	5019.5	5019.5
22.5°	5041.2	5062.9	5066.5	5077.3	5108.0	5144.2	5160.5	5164.1
25°	5250.8	5256.3	5241.8	5241.8	5261.7	5296.0	5312.3	5314.1
27.5°	5522.0	5494.9	5458.7	5446.1	5458.7	5498.5	5518.4	5525.6
30°	5860.0	5794.9	5711.8	5666.6	5659.3	5711.8	5747.9	5753.3
32.5°	6246.8	6152.8	6042.5	5950.3	5926.9	5959.4	6002.8	6001.0
35°	6705.9	6593.8	6460.1	6342.6	6288.4	6320.9	6382.3	6389.6
37.5°	7235.5	7089.1	6935.4	6787.2	6702.3	6711.3	6776.4	6798.1
40°	7826.6	7636.8	7443.4	7244.5	7123.4	7099.9	7179.5	7192.1
42.5°	8459.2	8215.2	7971.2	7725.3	7569.9	7533.7	7625.9	7620.5
45°	9133.4	8822.5	8536.9	8265.8	8081.4	8027.2	8103.1	8103.1
47.5°	9858.2	9475.0	9135.2	8827.9	8627.3	8549.6	8621.9	8627.3
50°	10626.4	10219.7	9820.2	9478.6	9238.2	9138.8	9232.8	9247.3
52.5°	11391.0	10995.1	10592.1	10201.6	9910.6	9789.5	9898.0	9945.0
55°	12166.4	11777.8	11392.8	11011.4	10666.2	10523.4	10639.0	10698.7
57.5°	12985.2	12625.5	12258.6	11873.6	11541.0	11318.7	11441.6	11521.1
60°	13945.0	13637.7	13256.3	12831.6	12495.4	12269.4	12339.9	12410.4
62.5°	14704.2	14823.5	14499.9	14008.3	13576.3	13287.1	13355.7	13429.9
65°	14337.2	15560.9	15848.3	15351.2	14753.0	14302.9	14274.0	14311.9
67.5°	11983.8	14360.7	16094.1	16567.7	16067.0	15441.6	15325.9	15382.0
70°	8016.3	10977.1	14035.4	16312.8	16918.4	16676.2	16562.3	16596.6
72.5°	3850.0	6393.2	9522.0	12549.6	14393.3	15239.2	15510.3	15642.3
75°	1408.1	2537.8	4589.3	6915.6	8348.9	9664.8	10523.4	10874.0
77.5°	849.5	1024.9	1465.9	2207.0	2499.8	2798.0	2682.4	2740.2
80°	629.0	710.4	804.3	903.8	936.3	936.3	900.1	871.2
82.5°	441.0	493.5	538.6	592.9	607.3	580.2	477.2	379.6
85°	283.8	307.3	327.2	361.5	352.5	336.2	225.9	200.6
87.5°	130.1	148.2	155.4	171.7	164.5	157.3	112.1	94.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)