

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: P191006

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191006  
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-08-LED-E1-RW-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40303.2 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

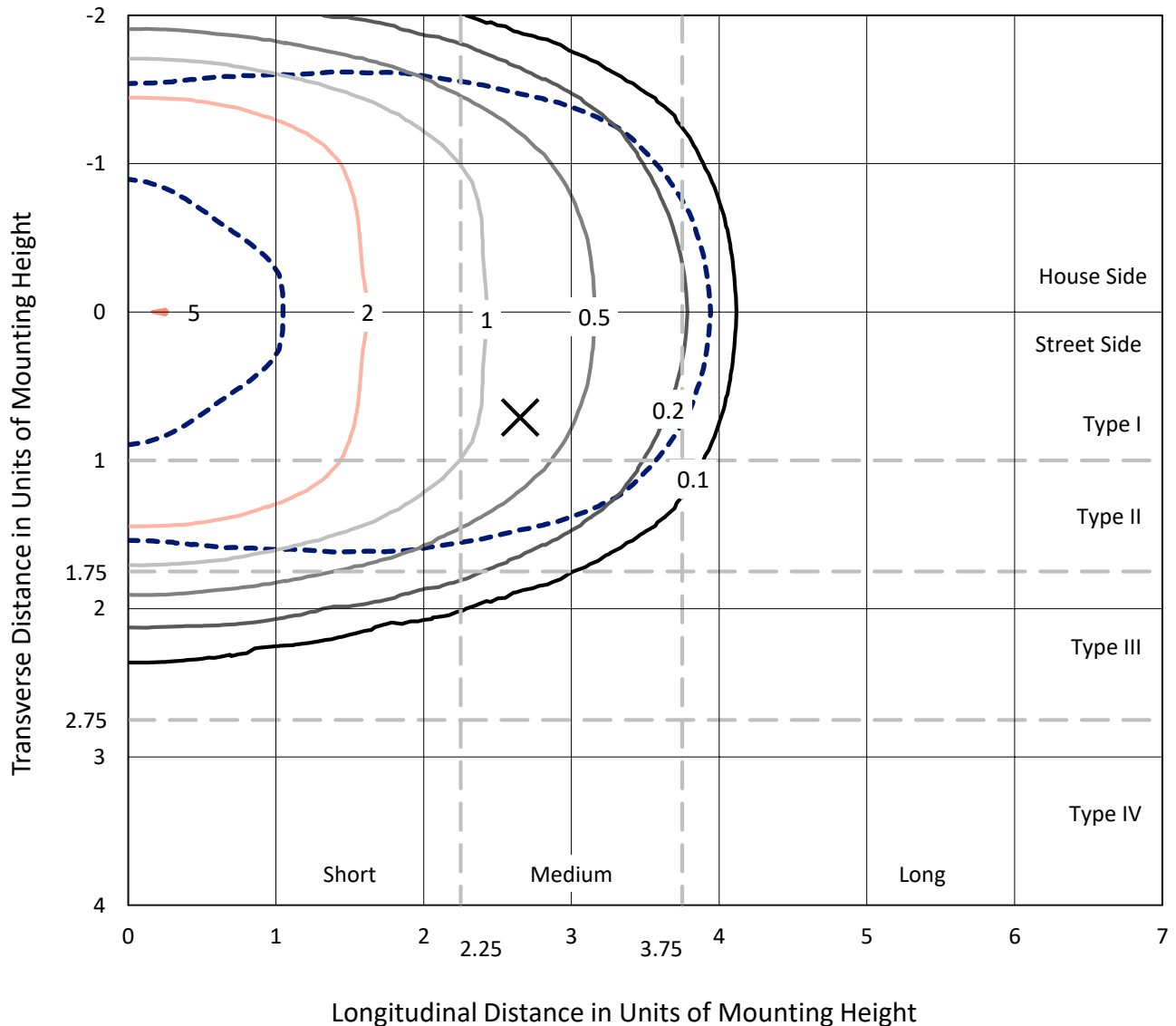
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

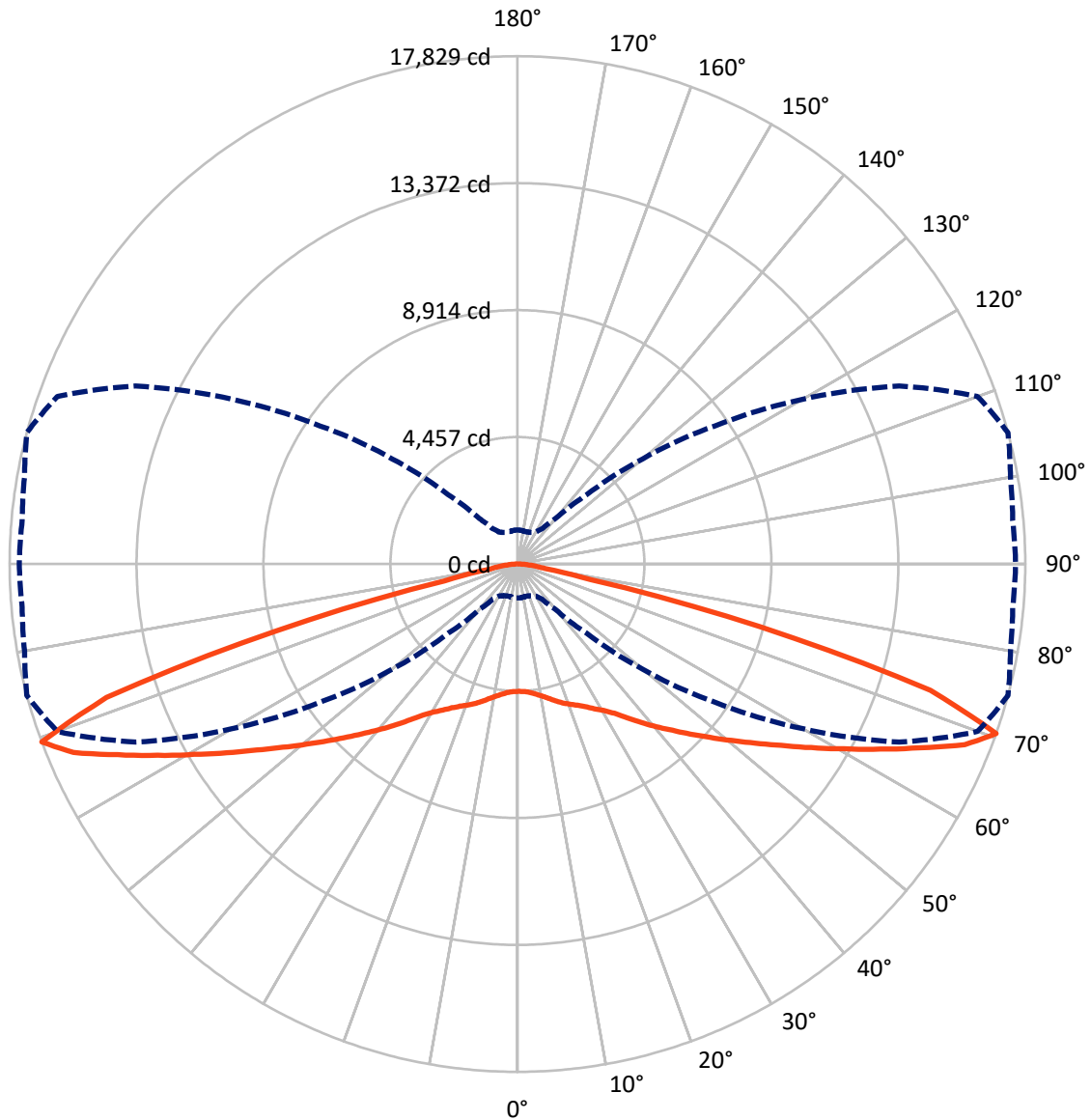


Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - Full Cutoff

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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	20151.6	0.0	20151.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20151.6	0.0	20151.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40303.2	0.0	40303.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.8	1.1
10°-20°	1332.2	3.3
20°-30°	2507.5	6.2
30°-40°	4440.2	11.0
40°-50°	7425.5	18.4
50°-60°	10347.4	25.7
60°-70°	9595.6	23.8
70°-80°	3824.1	9.5
80°-90°	402.0	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°	40303.2	100.0
0°-180°	40303.2	100.0



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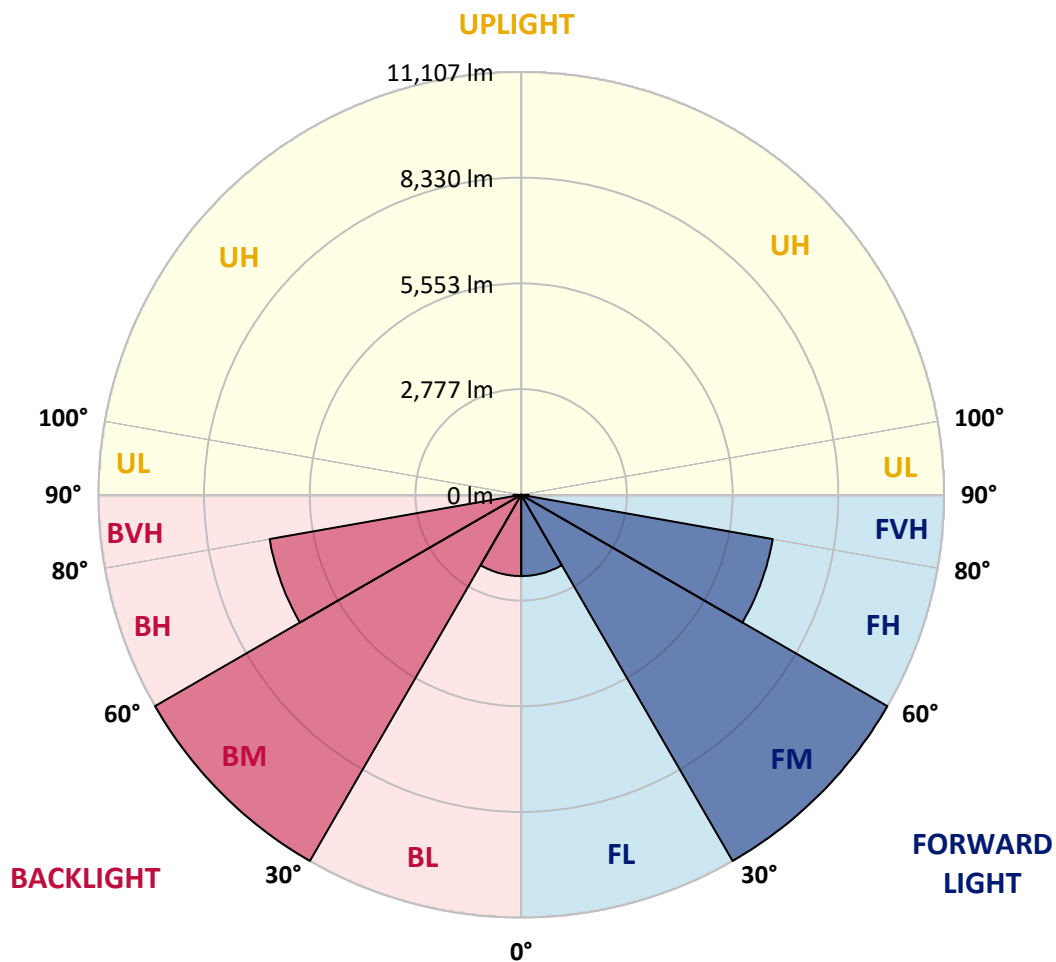
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2134.2	5.3			
FM	(30°-60°)	11106.6	27.6			
FH	(60°-80°)	6709.8	16.6			G3/7500
FVH	(80°-90°)	201.0	0.5			G2/225
BL	(0°-30°)	2134.2	5.3	B3/2500		
BM	(30°-60°)	11106.6	27.6	B5		
BH	(60°-80°)	6709.8	16.6	B5		G5
BVH	(80°-90°)	201.0	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°	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6
2.5°	4462.9	4459.1	4462.9	4461.1	4464.9	4464.9	4468.7	4476.3	4476.3	4482.0	4480.1
5°	4419.1	4417.2	4422.9	4428.7	4434.4	4445.8	4457.2	4474.4	4487.7	4497.2	4506.7
7.5°	4333.4	4333.4	4341.0	4354.4	4367.7	4392.4	4419.1	4453.4	4487.7	4516.3	4541.1
10°	4262.9	4266.7	4276.2	4299.2	4322.0	4360.1	4396.2	4445.8	4493.4	4541.1	4579.1
12.5°	4221.0	4226.7	4243.9	4278.2	4316.2	4367.7	4422.9	4485.8	4539.1	4596.3	4634.4
15°	4234.4	4238.2	4262.9	4304.9	4354.4	4419.1	4493.4	4567.7	4630.6	4691.6	4742.9
17.5°	4308.7	4314.4	4342.9	4390.6	4442.0	4518.2	4598.2	4682.0	4760.1	4828.6	4891.5
20°	4442.0	4447.7	4483.9	4535.4	4596.3	4674.4	4754.4	4842.0	4929.6	5002.0	5072.5
22.5°	4630.6	4640.1	4674.4	4725.8	4794.4	4878.1	4973.5	5066.8	5150.6	5217.3	5280.1
25°	4878.1	4899.1	4931.5	4988.6	5061.0	5137.3	5240.1	5335.3	5415.4	5478.2	5523.9
27.5°	5228.7	5257.3	5282.0	5337.2	5407.7	5480.2	5583.0	5666.7	5742.9	5803.9	5838.2
30°	5693.4	5722.0	5746.8	5800.1	5864.9	5933.4	6030.6	6104.9	6152.5	6200.1	6198.3
32.5°	6257.3	6287.8	6297.3	6354.4	6421.1	6495.3	6583.0	6624.9	6663.0	6668.7	6634.4
35°	6887.7	6903.0	6941.1	7017.2	7093.4	7154.4	7238.2	7259.2	7259.2	7230.6	7154.4
37.5°	7579.2	7588.8	7642.1	7727.8	7805.8	7868.7	7925.9	7967.8	7946.8	7885.9	7758.3
40°	8337.4	8354.4	8430.6	8506.9	8594.4	8653.6	8714.4	8722.1	8701.1	8611.6	8438.2
42.5°	9061.1	9076.3	9152.5	9272.5	9386.9	9468.7	9525.9	9537.4	9470.7	9388.7	9173.5
45°	9684.0	9724.0	9823.1	9964.1	10129.8	10245.9	10324.0	10356.4	10297.3	10190.6	9941.1
47.5°	10177.3	10217.3	10358.3	10526.0	10731.7	10920.2	11049.7	11118.4	11103.1	11023.1	10750.7
50°	10539.3	10577.3	10729.7	10935.4	11175.4	11409.8	11630.7	11794.5	11851.7	11815.5	11566.0
52.5°	10581.2	10644.0	10823.1	11099.3	11411.6	11731.7	12046.0	12324.1	12512.6	12541.2	12356.4
55°	9996.4	10059.3	10306.8	10716.4	11181.2	11703.1	12206.0	12674.6	13046.0	13236.5	13139.3
57.5°	8617.3	8729.7	8990.6	9470.7	10154.5	10935.4	11737.3	12569.8	13326.0	13830.8	13927.9
60°	6604.0	6737.3	7000.2	7510.6	8272.5	9204.0	10274.5	11505.0	12840.3	13975.6	14653.7
62.5°	4236.2	4362.0	4638.2	5082.0	5703.0	6712.5	7861.1	9322.0	11116.4	12908.8	14524.1
65°	2177.1	2245.8	2390.5	2659.1	3142.9	3897.2	4927.8	6384.8	8436.4	10647.8	12983.1
67.5°	1379.0	1392.4	1424.8	1462.9	1586.7	1847.7	2327.6	3236.2	4923.9	7230.6	9964.1
70°	1192.5	1192.5	1177.2	1171.5	1186.7	1222.8	1297.2	1508.6	2078.1	3432.4	5746.8
72.5°	1091.5	1080.0	1053.3	1032.4	1028.6	1028.6	1043.8	1076.2	1167.6	1398.2	2249.6
75°	1005.8	973.3	937.1	912.4	902.9	893.3	891.4	897.1	916.3	952.4	1074.3
77.5°	901.0	859.1	817.1	792.4	780.9	767.6	756.2	742.9	733.4	744.8	798.1
80°	775.3	727.6	695.3	680.1	668.6	649.6	624.8	601.9	580.9	577.1	609.6
82.5°	624.8	569.6	571.4	577.1	556.2	529.6	502.9	478.1	441.9	422.9	441.9
85°	504.7	476.2	462.9	499.1	468.6	428.6	386.7	342.9	285.7	240.0	261.0
87.5°	196.2	196.2	293.4	451.4	405.7	331.4	283.8	241.9	150.5	116.2	118.0
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°	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6	4470.6
2.5°	4478.2	4482.0	4480.1	4478.2	4478.2	4476.3	4478.2	4478.2
5°	4512.4	4522.0	4522.0	4525.8	4525.8	4527.7	4529.6	4527.7
7.5°	4563.9	4581.1	4592.4	4605.8	4607.7	4609.6	4613.4	4609.6
10°	4615.3	4649.6	4674.4	4699.1	4710.6	4714.4	4718.2	4718.2
12.5°	4680.1	4727.7	4771.6	4815.3	4836.3	4847.8	4847.8	4855.3
15°	4786.8	4834.4	4885.8	4944.8	4981.1	5000.1	5005.8	5005.8
17.5°	4937.3	4979.1	5023.0	5080.1	5125.8	5150.6	5156.3	5154.3
20°	5112.5	5152.5	5177.3	5213.5	5253.5	5282.0	5289.7	5289.7
22.5°	5312.5	5335.3	5339.2	5350.5	5383.0	5421.0	5438.2	5442.0
25°	5533.4	5539.2	5523.9	5523.9	5544.9	5581.1	5598.2	5600.1
27.5°	5819.2	5790.6	5752.5	5739.2	5752.5	5794.4	5815.4	5822.9
30°	6175.3	6106.8	6019.1	5971.6	5963.9	6019.1	6057.3	6063.0
32.5°	6583.0	6484.0	6367.8	6270.6	6245.8	6280.1	6325.8	6324.0
35°	7066.9	6948.7	6807.7	6684.0	6626.8	6661.0	6725.9	6733.5
37.5°	7624.9	7470.6	7308.7	7152.6	7063.0	7072.5	7141.1	7163.9
40°	8247.7	8047.8	7844.0	7634.5	7506.8	7482.1	7565.8	7579.2
42.5°	8914.5	8657.3	8400.2	8141.2	7977.3	7939.2	8036.4	8030.7
45°	9624.9	9297.3	8996.3	8710.6	8516.4	8459.2	8539.2	8539.2
47.5°	10388.8	9984.9	9626.9	9303.0	9091.6	9009.7	9086.0	9091.6
50°	11198.3	10769.7	10348.8	9988.8	9735.4	9630.7	9729.7	9744.9
52.5°	12004.0	11586.9	11162.1	10750.7	10444.0	10316.4	10430.7	10480.2
55°	12821.3	12411.7	12006.0	11604.0	11240.2	11089.7	11211.6	11274.6
57.5°	13684.1	13305.0	12918.3	12512.6	12162.2	11927.9	12057.4	12141.2
60°	14695.5	14371.7	13969.8	13522.2	13167.9	12929.8	13004.1	13078.3
62.5°	15495.6	15621.3	15280.3	14762.2	14307.0	14002.2	14074.6	14152.6
65°	15108.9	16398.4	16701.3	16177.5	15547.0	15072.7	15042.2	15082.2
67.5°	12628.8	15133.6	16960.3	17459.4	16931.8	16272.7	16150.9	16209.9
70°	8447.8	11567.8	14790.7	17190.8	17828.9	17573.7	17453.7	17489.9
72.5°	4057.2	6737.3	10034.5	13225.0	15167.9	16059.4	16345.1	16484.1
75°	1483.8	2674.3	4836.3	7287.8	8798.3	10185.0	11089.7	11459.3
77.5°	895.3	1080.0	1544.8	2325.8	2634.3	2948.7	2826.7	2887.7
80°	662.9	748.6	847.6	952.4	986.6	986.6	948.6	918.1
82.5°	464.7	520.0	567.6	624.8	640.1	611.4	502.9	400.0
85°	299.0	323.9	344.7	380.9	371.4	354.2	238.1	211.4
87.5°	137.2	156.2	163.8	181.0	173.3	165.7	118.0	99.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)