

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: P190869

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-5WQ-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4424.3 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

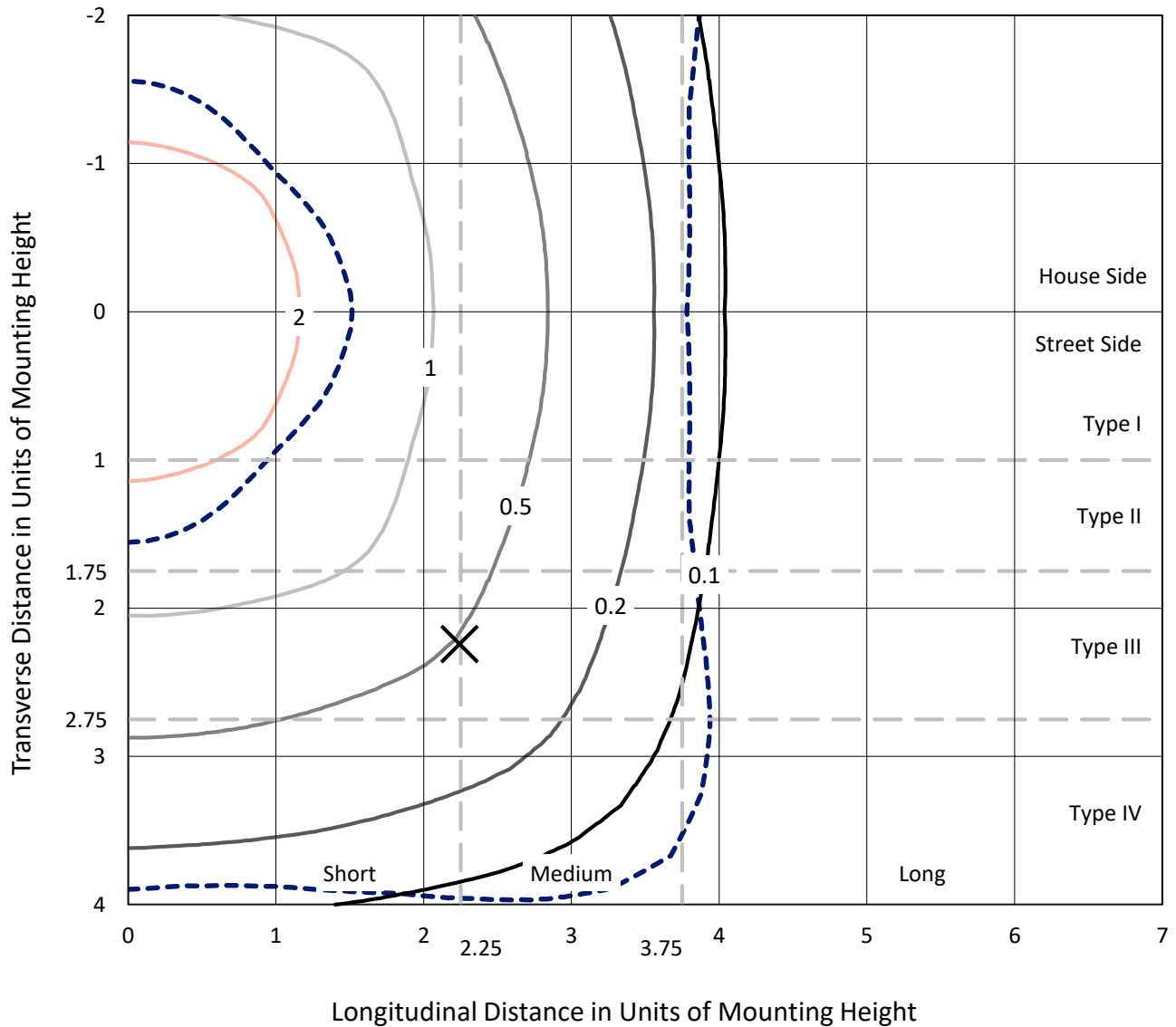
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P190869  
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-600

### Iso-Footcandle Lines of Horizontal Illumination

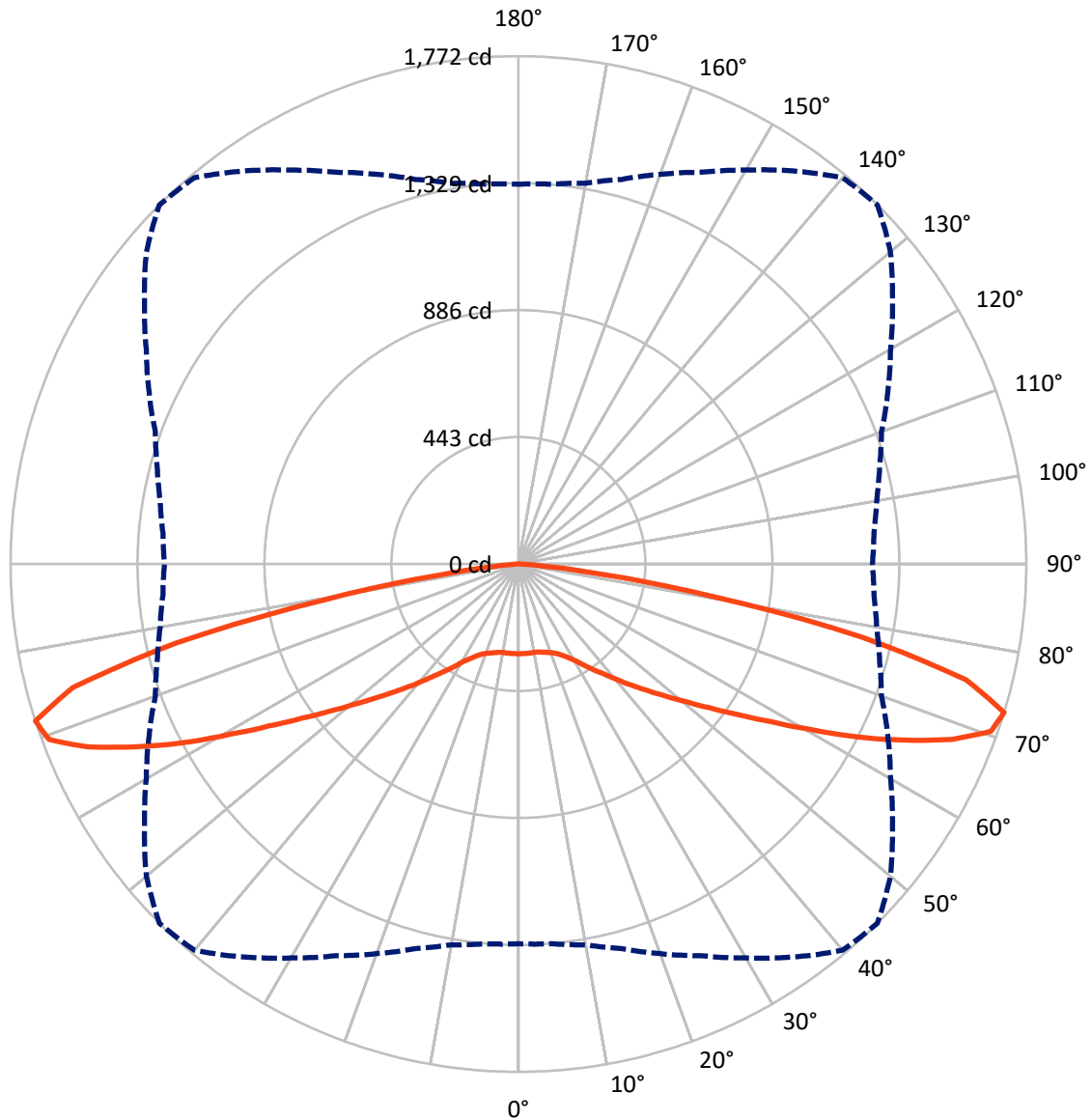
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P190869  
CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P190869

CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2212.1	0.0	2212.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2212.1	0.0	2212.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4424.3	0.0	4424.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	0.7
10°-20°	90.9	2.1
20°-30°	166.0	3.8
30°-40°	286.3	6.5
40°-50°	489.4	11.1
50°-60°	793.3	17.9
60°-70°	1316.0	29.7
70°-80°	1159.1	26.2
80°-90°	93.5	2.1
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°	4424.3	100.0
0°-180°	4424.3	100.0



REPORT NUMBER: P190869

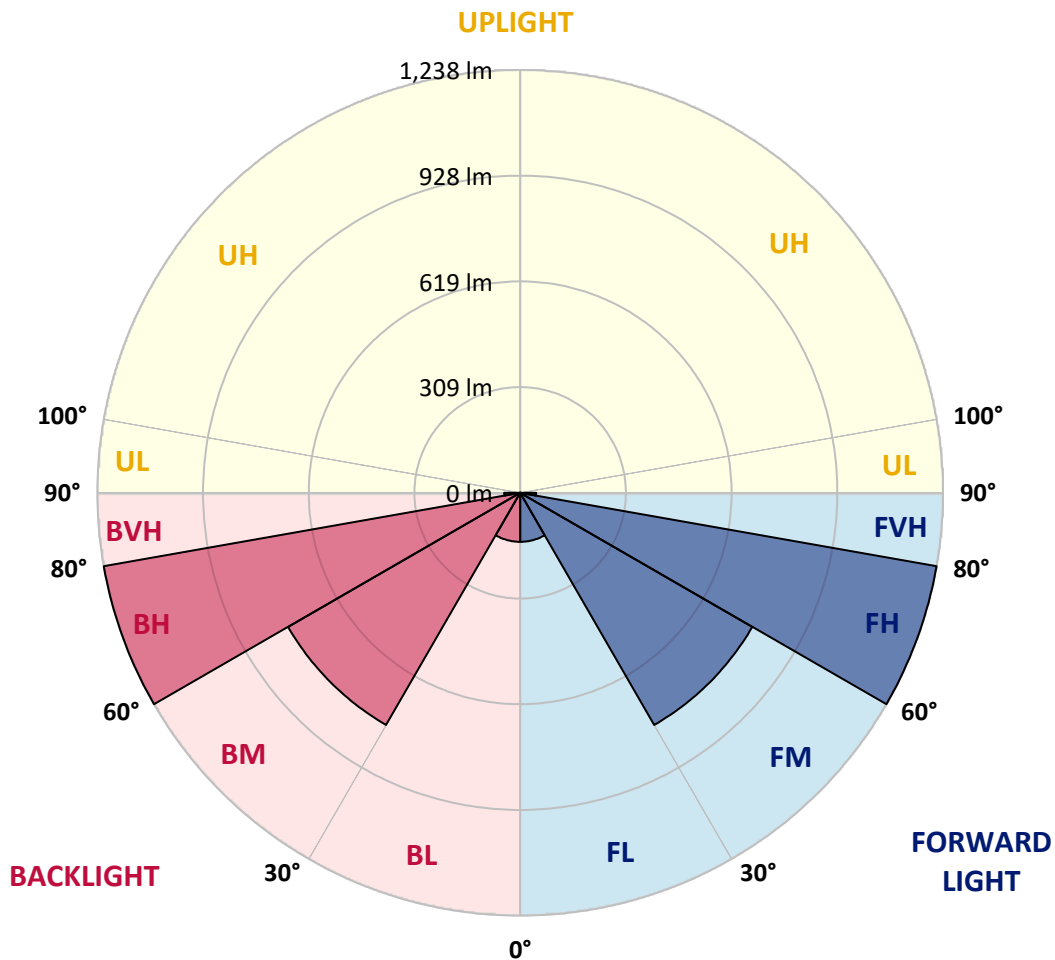
CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.4	3.2			
FM	(30°-60°)	784.5	17.7			
FH	(60°-80°)	1237.5	28.0			G1/1800
FVH	(80°-90°)	46.7	1.1			G1/100
BL	(0°-30°)	143.4	3.2	B1/500		
BM	(30°-60°)	784.5	17.7	B1/1000		
BH	(60°-80°)	1237.5	28.0	B3/2500		G1/1800
BVH	(80°-90°)	46.7	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P190869  
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	313.3	313.5	313.7	313.5	313.5	313.3	313.1	313.3	313.1	312.7	312.9
5°	314.4	314.8	314.8	314.4	314.6	314.4	313.9	314.1	313.7	313.1	313.1
7.5°	315.6	315.8	315.8	315.4	315.6	315.2	314.8	314.6	314.1	313.3	312.7
10°	317.3	317.5	317.3	316.9	316.9	316.4	315.4	315.0	314.1	312.9	312.3
12.5°	319.4	319.6	319.4	319.0	318.8	317.7	316.9	316.4	315.8	314.8	313.7
15°	322.2	322.6	322.2	321.4	320.8	320.0	319.6	319.8	320.0	319.2	318.1
17.5°	327.5	327.8	327.1	325.3	324.5	323.7	323.7	324.1	324.7	324.3	323.3
20°	337.3	336.7	335.2	333.0	331.9	330.5	330.3	330.5	330.5	330.3	329.5
22.5°	349.4	349.0	347.2	344.3	342.9	342.1	340.9	339.9	339.7	339.1	338.3
25°	364.1	363.9	361.6	359.2	358.1	357.1	356.1	354.7	353.5	352.1	351.3
27.5°	382.7	381.9	378.7	377.5	376.0	375.4	374.0	372.4	371.3	369.5	368.5
30°	403.2	403.2	400.6	400.2	400.2	398.7	397.1	394.2	392.4	390.7	390.1
32.5°	423.7	423.9	421.3	422.1	422.7	423.7	424.1	423.1	421.9	421.7	420.4
35°	453.3	452.6	449.9	450.5	450.3	450.1	450.1	452.3	452.8	453.2	450.7
37.5°	490.1	490.1	487.4	487.4	486.2	485.0	483.3	484.8	487.0	487.6	486.0
40°	532.0	533.5	530.2	530.0	530.4	526.6	524.8	527.0	528.4	530.8	529.0
42.5°	581.5	580.5	577.4	576.9	574.7	573.5	571.8	573.7	575.9	577.5	578.1
45°	629.0	628.2	624.6	624.6	622.4	621.3	622.2	625.2	626.3	628.4	630.6
47.5°	676.0	674.9	672.5	673.5	673.7	675.6	678.1	681.0	683.8	686.9	687.9
50°	723.8	724.0	721.4	723.8	726.8	731.9	739.0	743.7	749.6	753.4	754.6
52.5°	767.4	768.2	771.1	776.7	782.9	792.8	805.0	816.3	826.0	832.6	832.2
55°	819.8	821.0	827.9	837.7	847.6	862.7	880.7	900.7	917.0	926.3	920.5
57.5°	886.8	889.4	897.1	910.3	925.2	944.6	969.3	999.6	1024.7	1037.3	1027.8
60°	978.7	980.3	989.6	1004.2	1022.1	1046.3	1079.3	1119.9	1155.4	1172.1	1161.2
62.5°	1099.8	1102.8	1110.4	1125.1	1143.5	1170.9	1211.2	1261.9	1306.2	1329.3	1304.6
65°	1244.5	1254.2	1260.5	1275.5	1292.6	1321.7	1363.8	1418.2	1465.7	1480.9	1452.3
67.5°	1387.7	1396.3	1407.3	1424.5	1441.7	1474.4	1513.6	1566.3	1618.5	1632.3	1587.8
70°	1450.4	1455.4	1472.3	1496.0	1529.0	1567.6	1612.8	1672.0	1736.6	1747.9	1691.6
72.5°	1324.8	1329.7	1348.8	1388.8	1446.5	1507.7	1586.6	1673.6	1758.9	1771.6	1694.0
75°	1002.0	994.1	1022.3	1075.2	1153.0	1238.4	1348.8	1473.6	1596.7	1612.8	1520.1
77.5°	517.8	516.8	538.2	603.8	696.6	793.8	915.3	1056.4	1176.9	1225.6	1150.1
80°	145.9	147.5	157.6	190.4	244.5	314.8	409.7	541.8	640.4	690.7	648.6
82.5°	57.2	61.7	65.6	71.6	78.8	89.1	118.9	177.0	237.4	283.7	232.3
85°	20.5	21.9	31.1	36.7	37.3	39.4	44.8	52.4	63.1	75.3	61.9
87.5°	7.7	8.5	9.9	16.5	16.3	14.8	18.1	18.8	14.2	13.0	16.1
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: P190869

CATALOG NUMBER: GLEON-AF-01-LED-E1-5WQ-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	312.5	312.7	312.7	312.9	313.1	313.1	313.5	313.5
5°	312.7	312.7	312.3	312.5	312.3	312.3	312.5	312.5
7.5°	312.3	312.1	311.7	311.5	311.1	311.1	311.1	311.1
10°	311.7	311.5	311.1	310.9	310.7	310.7	310.7	310.7
12.5°	313.3	312.7	312.3	312.1	312.1	312.1	312.1	312.1
15°	317.5	316.2	315.2	315.2	315.4	315.8	315.8	316.2
17.5°	322.8	321.2	320.2	319.4	319.8	320.4	320.8	321.2
20°	329.1	328.4	326.9	326.1	326.1	326.9	327.3	327.5
22.5°	337.9	337.3	336.7	335.6	335.6	336.0	336.9	336.9
25°	350.9	350.5	350.1	349.2	349.0	349.0	349.4	349.8
27.5°	367.0	367.2	366.8	366.6	366.1	365.9	366.4	366.3
30°	388.8	389.8	390.9	390.1	389.0	388.4	387.8	387.0
32.5°	418.2	417.0	416.1	414.8	413.0	411.3	410.1	408.7
35°	446.0	444.0	443.1	444.4	444.2	443.1	441.7	440.6
37.5°	480.1	479.7	480.1	482.3	481.9	482.9	480.1	479.9
40°	523.1	523.5	526.4	529.0	530.4	531.8	530.2	528.6
42.5°	573.1	572.9	573.9	577.5	579.9	581.5	578.1	577.7
45°	625.8	624.4	625.2	628.2	630.6	632.5	628.6	628.6
47.5°	683.8	681.4	678.7	682.2	683.6	684.9	681.8	680.8
50°	748.6	743.5	737.9	739.2	739.2	738.9	735.0	734.8
52.5°	822.9	813.5	803.1	799.3	797.1	794.6	788.0	784.7
55°	908.3	894.3	878.0	868.1	862.9	856.1	845.0	841.9
57.5°	1008.1	986.2	958.2	946.0	934.3	923.3	910.9	907.5
60°	1126.4	1094.1	1057.0	1034.5	1021.7	1011.2	998.4	997.8
62.5°	1258.3	1207.4	1165.3	1145.1	1135.8	1126.4	1114.2	1115.8
65°	1392.4	1339.2	1299.9	1283.5	1274.7	1267.0	1254.9	1256.7
67.5°	1524.7	1475.8	1432.6	1415.8	1406.0	1396.3	1385.3	1387.1
70°	1619.7	1559.0	1510.3	1472.9	1449.6	1423.2	1406.3	1402.0
72.5°	1592.5	1498.9	1421.7	1347.5	1304.2	1268.9	1244.9	1234.6
75°	1378.2	1250.4	1150.9	1060.1	1008.9	967.3	937.1	918.2
77.5°	1023.6	879.8	762.4	657.7	574.9	519.2	480.1	454.7
80°	560.3	426.2	311.5	218.9	160.9	133.7	118.0	110.6
82.5°	174.5	112.6	83.0	71.6	66.6	63.7	59.0	51.6
85°	55.6	48.7	45.2	43.3	41.2	35.9	24.8	22.5
87.5°	21.5	22.1	21.9	20.7	21.1	15.2	12.2	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)