

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: P190989

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190989  
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-01-LED-E1-RW-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4293.3 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

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

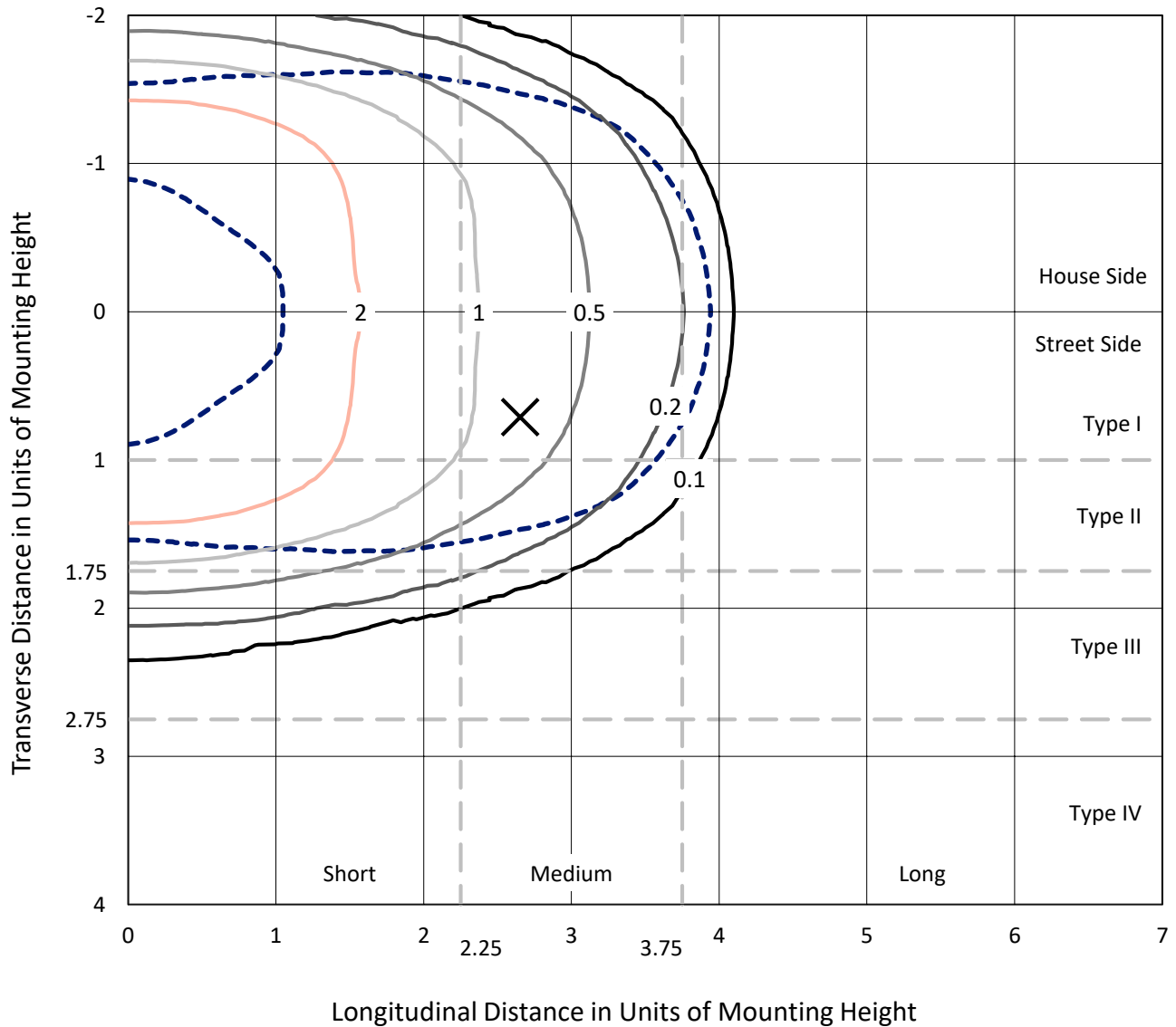


REPORT NUMBER: P190989

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-600

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

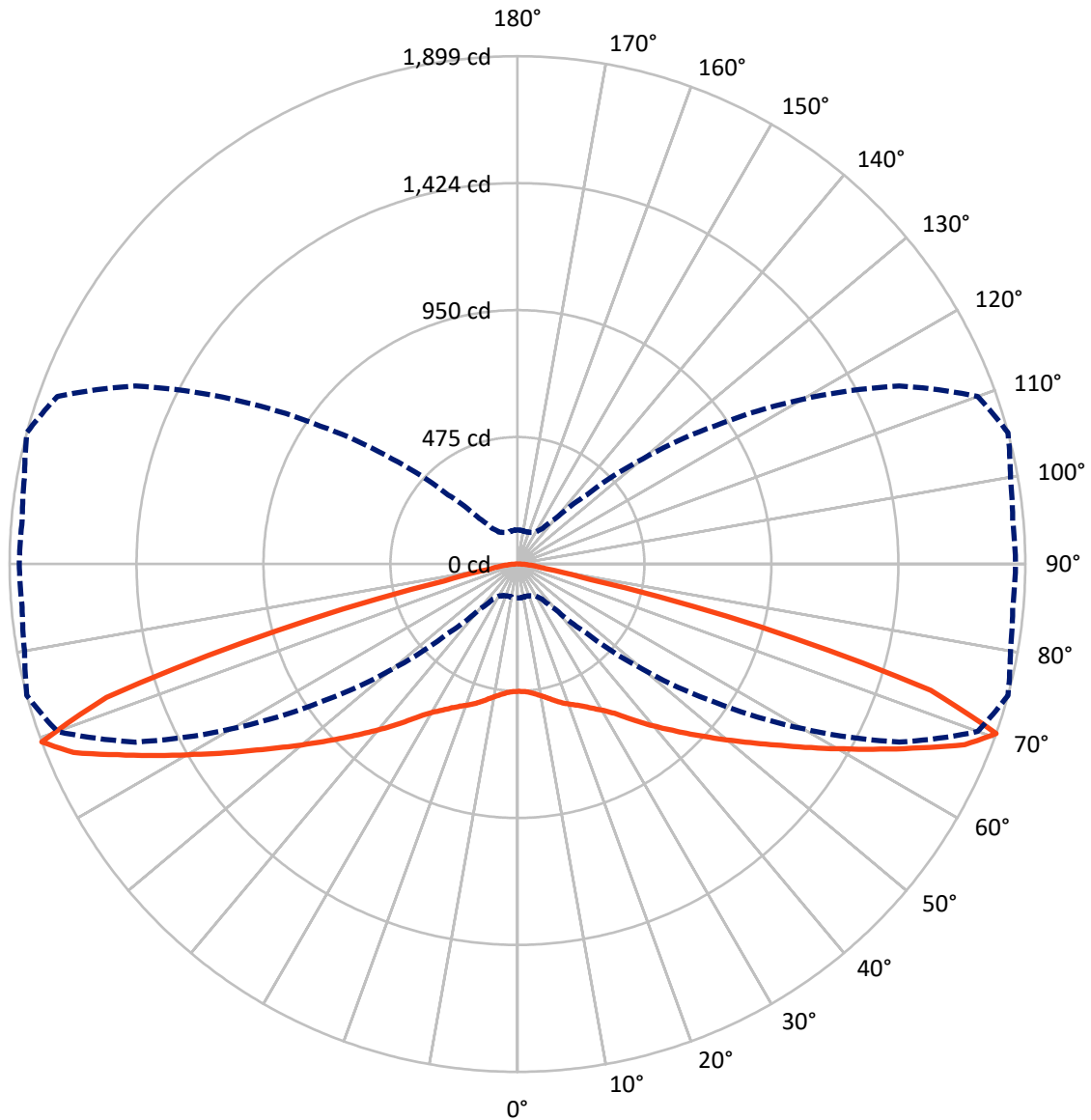


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P190989

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P190989

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2146.7	0.0	2146.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2146.7	0.0	2146.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4293.3	0.0	4293.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.7	1.1
10°-20°	141.9	3.3
20°-30°	267.1	6.2
30°-40°	473.0	11.0
40°-50°	791.0	18.4
50°-60°	1102.3	25.7
60°-70°	1022.2	23.8
70°-80°	407.4	9.5
80°-90°	42.8	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°	4293.3	100.0
0°-180°	4293.3	100.0



REPORT NUMBER: P190989

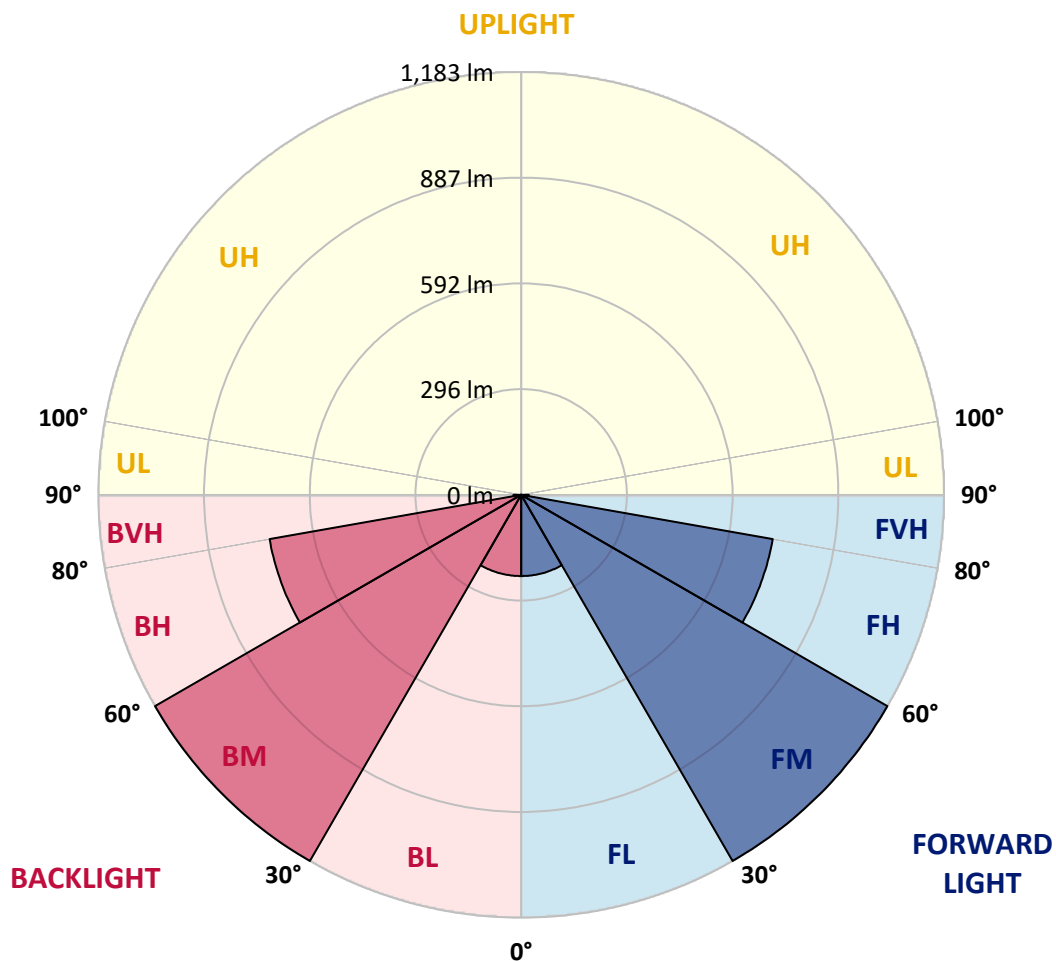
CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.3	5.3			
FM	(30°-60°)	1183.1	27.6			
FH	(60°-80°)	714.8	16.6			G1/1800
FVH	(80°-90°)	21.4	0.5			G1/100
BL	(0°-30°)	227.3	5.3	B1/500		
BM	(30°-60°)	1183.1	27.6	B2/2500		
BH	(60°-80°)	714.8	16.6	B2/1000		G2/1000
BVH	(80°-90°)	21.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





REPORT NUMBER: P190989

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2
2.5°	475.5	475.1	475.5	475.3	475.7	475.7	476.0	476.8	476.8	477.4	477.2
5°	470.8	470.6	471.2	471.8	472.4	473.6	474.9	476.6	478.0	479.0	480.1
7.5°	461.7	461.7	462.5	463.8	465.2	467.9	470.8	474.4	478.0	481.1	483.8
10°	454.1	454.5	455.5	458.0	460.4	464.4	468.3	473.6	478.6	483.8	487.8
12.5°	449.7	450.3	452.0	455.7	459.8	465.2	471.2	477.8	483.5	489.6	493.7
15°	451.0	451.4	454.1	458.6	463.8	470.8	478.6	486.6	493.3	499.8	505.2
17.5°	459.0	459.6	462.7	467.7	473.2	481.3	489.8	498.8	507.1	514.3	521.1
20°	473.2	473.8	477.6	483.1	489.6	498.0	506.5	515.8	525.1	532.9	540.3
22.5°	493.3	494.3	498.0	503.4	510.8	519.7	529.8	539.7	548.7	555.8	562.4
25°	519.7	521.9	525.3	531.4	539.1	547.3	558.2	568.4	576.8	583.6	588.4
27.5°	557.0	560.1	562.6	568.6	576.0	583.8	594.7	603.6	611.7	618.3	622.0
30°	606.5	609.6	612.1	617.9	624.7	632.1	642.4	650.3	655.4	660.5	660.3
32.5°	666.6	669.8	670.9	676.9	684.0	691.9	701.2	705.7	709.8	710.3	706.8
35°	733.8	735.3	739.4	747.5	755.7	762.1	771.1	773.2	773.2	770.3	762.1
37.5°	807.4	808.4	814.1	823.2	831.6	838.2	844.3	848.7	846.5	840.0	826.4
40°	888.1	890.0	898.0	906.2	915.5	921.8	928.3	929.1	926.9	917.4	898.9
42.5°	965.3	966.9	975.0	987.8	999.9	1008.6	1014.8	1016.0	1008.8	1000.1	977.2
45°	1031.5	1035.8	1046.4	1061.4	1079.1	1091.5	1099.8	1103.3	1096.9	1085.6	1059.0
47.5°	1084.1	1088.4	1103.5	1121.3	1143.1	1163.3	1177.1	1184.4	1182.7	1174.2	1145.2
50°	1122.7	1126.8	1142.9	1164.9	1190.5	1215.5	1239.0	1256.4	1262.5	1258.6	1232.0
52.5°	1127.2	1133.8	1153.0	1182.3	1215.7	1249.7	1283.2	1312.9	1332.9	1336.0	1316.2
55°	1064.9	1071.5	1097.9	1141.6	1191.1	1246.7	1300.3	1350.2	1389.8	1410.0	1399.7
57.5°	918.0	930.0	957.7	1008.8	1081.7	1164.9	1250.4	1339.0	1419.5	1473.4	1483.7
60°	703.5	717.7	745.7	800.0	881.3	980.5	1094.5	1225.6	1367.8	1488.7	1561.0
62.5°	451.2	464.6	494.1	541.3	607.5	715.0	837.4	993.1	1184.2	1375.2	1547.2
65°	231.9	239.3	254.6	283.3	334.8	415.1	525.0	680.2	898.7	1134.2	1383.0
67.5°	146.9	148.3	151.8	155.8	169.0	196.8	248.0	344.7	524.6	770.3	1061.4
70°	127.1	127.1	125.4	124.8	126.4	130.2	138.2	160.7	221.4	365.6	612.1
72.5°	116.3	115.1	112.2	110.0	109.6	109.6	111.2	114.7	124.4	148.9	239.7
75°	107.1	103.7	99.8	97.2	96.2	95.1	94.9	95.5	97.6	101.5	114.5
77.5°	96.0	91.6	87.1	84.4	83.2	81.7	80.5	79.2	78.2	79.4	85.0
80°	82.6	77.5	74.1	72.4	71.2	69.2	66.6	64.1	61.9	61.5	65.0
82.5°	66.6	60.7	60.9	61.5	59.2	56.4	53.6	50.9	47.1	45.0	47.1
85°	53.8	50.7	49.3	53.2	49.9	45.6	41.2	36.5	30.5	25.6	27.8
87.5°	20.9	20.9	31.2	48.1	43.3	35.3	30.3	25.8	16.1	12.4	12.6
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: P190989

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2
2.5°	477.0	477.4	477.2	477.0	477.0	476.8	477.0	477.0
5°	480.7	481.7	481.7	482.1	482.1	482.3	482.5	482.3
7.5°	486.2	487.9	489.2	490.6	490.8	491.0	491.4	491.0
10°	491.6	495.3	498.0	500.5	501.8	502.2	502.6	502.6
12.5°	498.6	503.6	508.3	512.9	515.2	516.4	516.4	517.2
15°	509.9	515.0	520.5	526.7	530.6	532.7	533.3	533.3
17.5°	525.9	530.4	535.1	541.1	546.1	548.7	549.3	549.1
20°	544.6	548.9	551.5	555.4	559.7	562.6	563.4	563.4
22.5°	565.9	568.4	568.8	570.0	573.5	577.5	579.3	579.7
25°	589.4	590.0	588.4	588.4	590.7	594.5	596.4	596.6
27.5°	619.9	616.8	612.7	611.4	612.7	617.2	619.5	620.3
30°	657.9	650.5	641.2	636.2	635.4	641.2	645.3	645.9
32.5°	701.2	690.7	678.3	668.0	665.3	669.0	673.8	673.6
35°	752.8	740.2	725.2	712.0	705.9	709.6	716.5	717.3
37.5°	812.2	795.9	778.6	761.9	752.4	753.4	760.7	763.1
40°	878.6	857.3	835.5	813.2	799.6	797.0	806.0	807.4
42.5°	949.6	922.2	894.9	867.3	849.8	845.8	856.1	855.5
45°	1025.3	990.4	958.3	927.9	907.3	901.1	909.6	909.6
47.5°	1106.6	1063.7	1025.5	991.0	968.5	959.7	967.9	968.5
50°	1192.9	1147.2	1102.4	1064.1	1037.1	1025.9	1036.5	1038.1
52.5°	1278.7	1234.3	1189.1	1145.2	1112.6	1099.0	1111.1	1116.4
55°	1365.7	1322.2	1278.9	1236.1	1197.4	1181.3	1194.3	1201.0
57.5°	1457.7	1417.3	1376.2	1332.9	1295.6	1270.6	1284.4	1293.3
60°	1565.4	1530.9	1488.2	1440.4	1402.7	1377.4	1385.3	1393.2
62.5°	1650.6	1664.0	1627.7	1572.6	1524.1	1491.6	1499.3	1507.6
65°	1609.5	1746.9	1779.1	1723.4	1656.2	1605.6	1602.4	1606.6
67.5°	1345.3	1612.2	1806.7	1859.8	1803.7	1733.5	1720.5	1726.7
70°	899.9	1232.2	1575.5	1831.3	1899.2	1872.0	1859.2	1863.1
72.5°	432.2	717.7	1068.9	1408.8	1615.8	1710.8	1741.2	1756.0
75°	158.0	284.9	515.2	776.3	937.2	1084.9	1181.3	1220.7
77.5°	95.3	115.1	164.6	247.8	280.6	314.1	301.2	307.6
80°	70.6	79.8	90.3	101.5	105.1	105.1	101.1	97.8
82.5°	49.5	55.4	60.5	66.6	68.1	65.2	53.6	42.7
85°	31.8	34.5	36.7	40.6	39.6	37.7	25.4	22.5
87.5°	14.6	16.7	17.5	19.2	18.5	17.7	12.6	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)