

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: P300659

Luminaire Tested: **GLNA-AF-01-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300659  
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-01-LED-E1-RW-7050-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

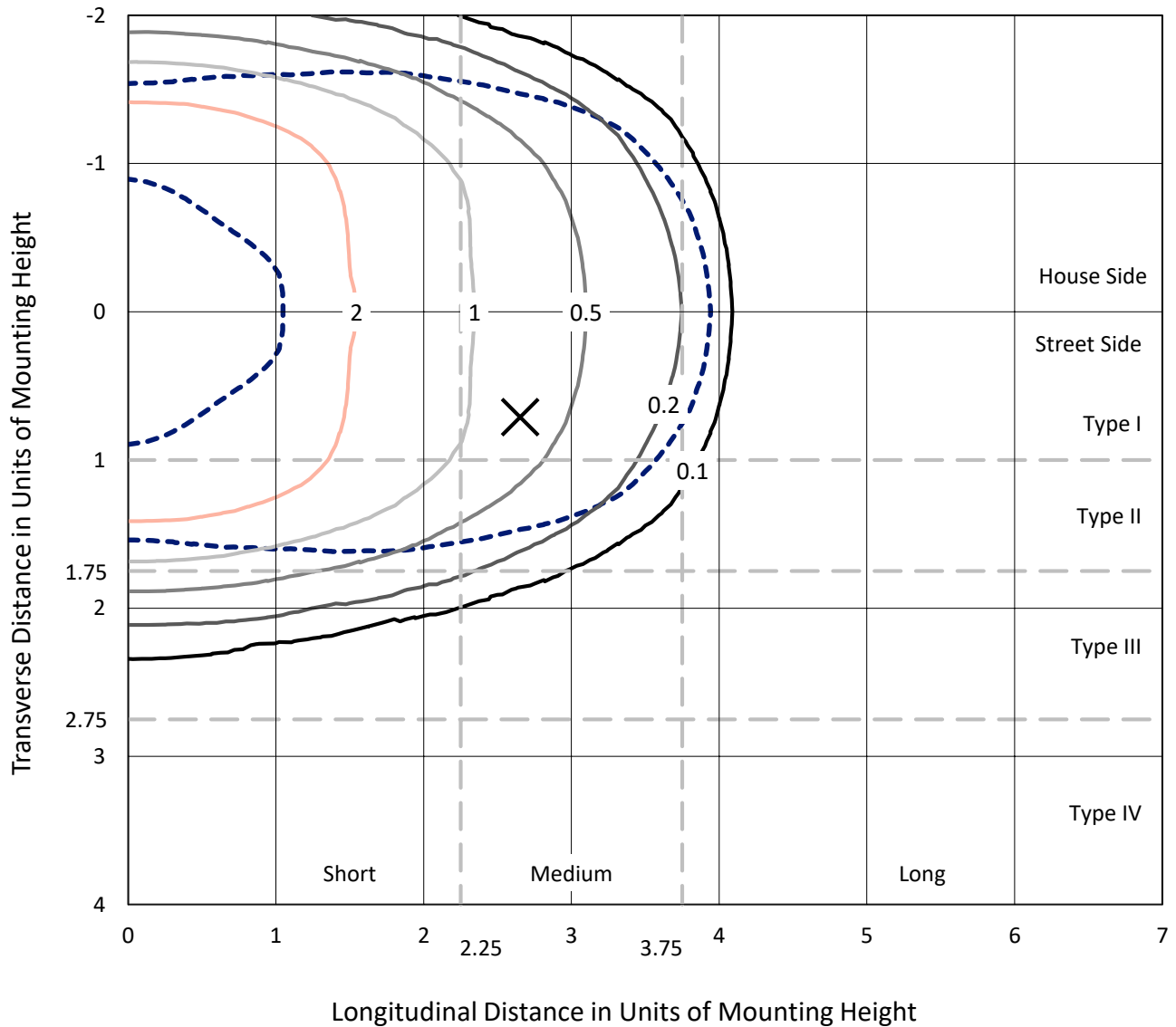
Lumens per Lamp: N/A  
Luminaire Lumens: 4182.5 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (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



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### Iso-Footcandle Lines of Horizontal Illumination

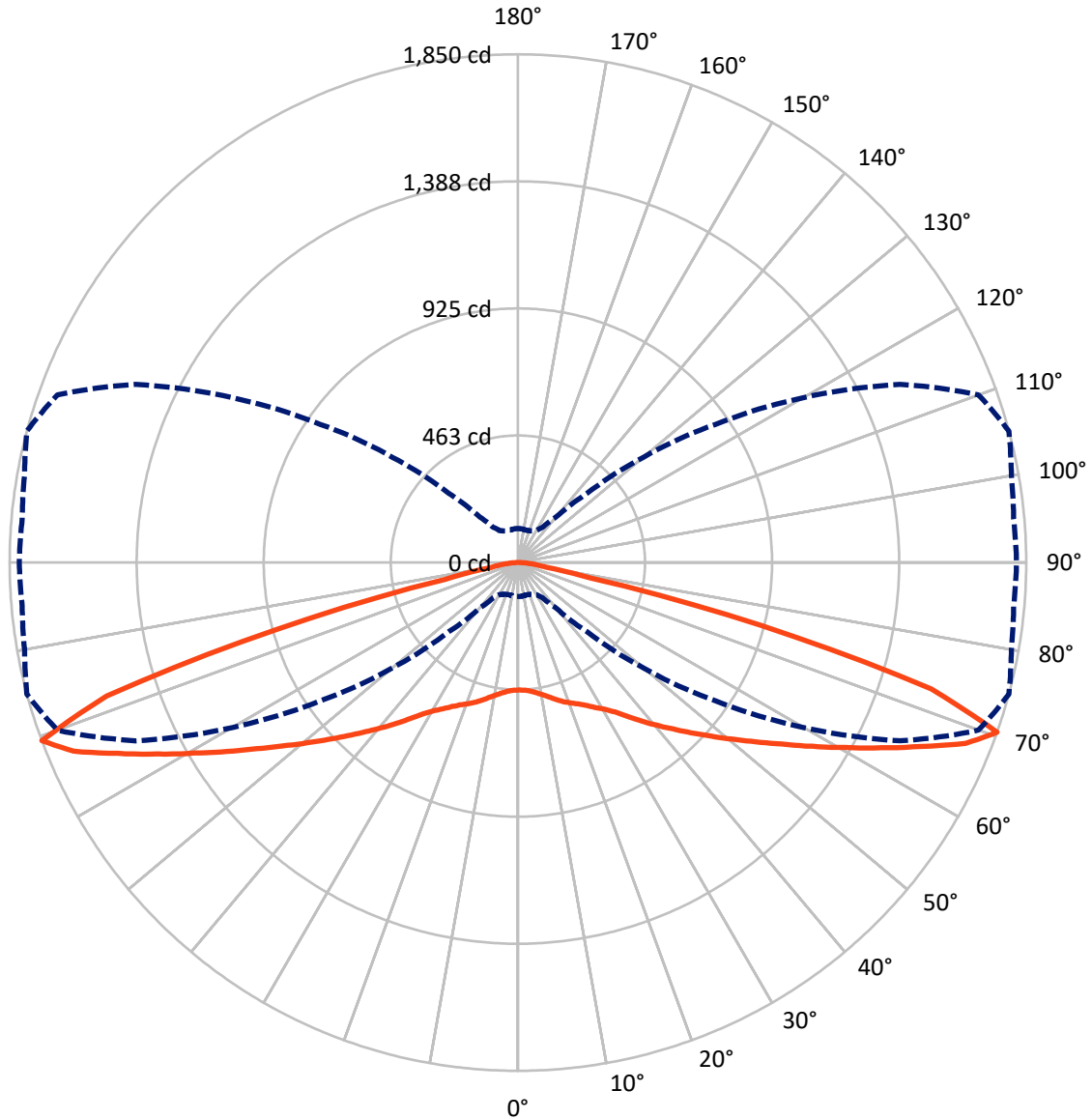
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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	2091.2	0.0	2091.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2091.2	0.0	2091.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4182.5	0.0	4182.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	1.1
10°-20°	138.3	3.3
20°-30°	260.2	6.2
30°-40°	460.8	11.0
40°-50°	770.6	18.4
50°-60°	1073.8	25.7
60°-70°	995.8	23.8
70°-80°	396.8	9.5
80°-90°	41.7	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°	4182.5	100.0
0°-180°	4182.5	100.0



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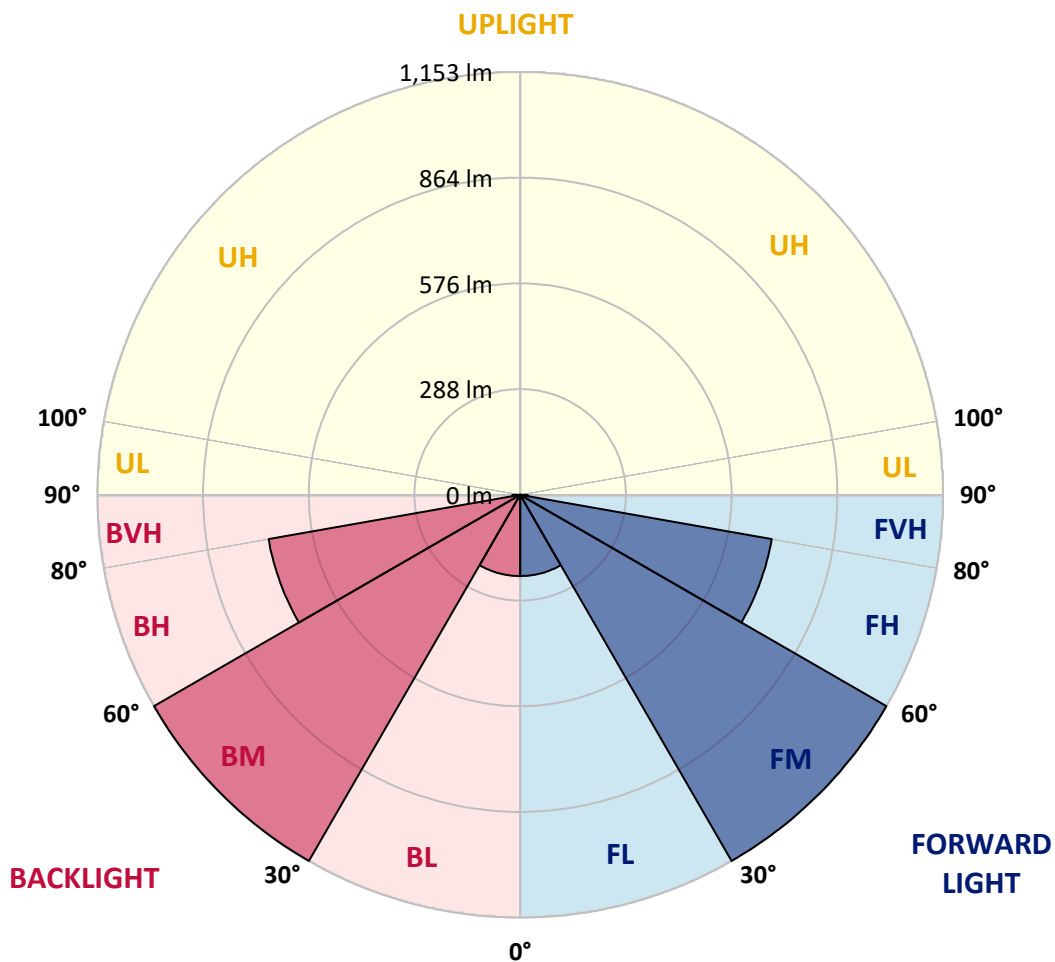
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.5	5.3			
FM	(30°-60°)	1152.6	27.6			
FH	(60°-80°)	696.3	16.6			G1/1800
FVH	(80°-90°)	20.9	0.5			G1/100
BL	(0°-30°)	221.5	5.3	B1/500		
BM	(30°-60°)	1152.6	27.6	B2/2500		
BH	(60°-80°)	696.3	16.6	B2/1000		G2/1000
BVH	(80°-90°)	20.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9
2.5°	463.1	462.7	463.1	462.9	463.3	463.3	463.7	464.5	464.5	465.1	464.9
5°	458.6	458.4	459.0	459.6	460.2	461.4	462.5	464.3	465.7	466.7	467.7
7.5°	449.7	449.7	450.5	451.9	453.3	455.8	458.6	462.2	465.7	468.7	471.2
10°	442.4	442.8	443.8	446.1	448.5	452.5	456.2	461.4	466.3	471.2	475.2
12.5°	438.0	438.6	440.4	444.0	447.9	453.3	459.0	465.5	471.0	477.0	480.9
15°	439.4	439.8	442.4	446.7	451.9	458.6	466.3	474.0	480.5	486.9	492.2
17.5°	447.1	447.7	450.7	455.6	461.0	468.9	477.2	485.9	494.0	501.1	507.6
20°	461.0	461.6	465.3	470.7	477.0	485.1	493.4	502.5	511.6	519.1	526.4
22.5°	480.5	481.5	485.1	490.4	497.5	506.2	516.1	525.8	534.5	541.4	547.9
25°	506.2	508.4	511.8	517.7	525.2	533.1	543.8	553.7	562.0	568.5	573.2
27.5°	542.6	545.6	548.1	553.9	561.2	568.7	579.4	588.1	596.0	602.3	605.9
30°	590.8	593.8	596.4	601.9	608.6	615.7	625.8	633.5	638.5	643.4	643.2
32.5°	649.3	652.5	653.5	659.4	666.3	674.1	683.2	687.5	691.5	692.0	688.5
35°	714.8	716.4	720.3	728.2	736.1	742.5	751.1	753.3	753.3	750.4	742.5
37.5°	786.5	787.5	793.1	802.0	810.1	816.6	822.5	826.9	824.7	818.4	805.1
40°	865.2	867.0	874.9	882.8	891.9	898.0	904.3	905.1	903.0	893.7	875.7
42.5°	940.3	941.9	949.8	962.3	974.1	982.6	988.6	989.7	982.8	974.3	952.0
45°	1005.0	1009.1	1019.4	1034.0	1051.2	1063.3	1071.4	1074.7	1068.6	1057.5	1031.6
47.5°	1056.2	1060.3	1074.9	1092.3	1113.7	1133.2	1146.7	1153.8	1152.2	1143.9	1115.7
50°	1093.7	1097.7	1113.5	1134.8	1159.7	1184.0	1207.0	1224.0	1229.9	1226.2	1200.3
52.5°	1098.1	1104.6	1123.2	1151.8	1184.2	1217.5	1250.1	1278.9	1298.5	1301.5	1282.3
55°	1037.4	1043.9	1069.6	1112.1	1160.3	1214.5	1266.7	1315.3	1353.8	1373.6	1363.5
57.5°	894.3	905.9	933.0	982.8	1053.8	1134.8	1218.0	1304.4	1382.9	1435.3	1445.4
60°	685.3	699.2	726.4	779.4	858.5	955.1	1066.2	1193.9	1332.5	1450.3	1520.7
62.5°	439.6	452.7	481.3	527.4	591.8	696.6	815.8	967.4	1153.6	1339.6	1507.2
65°	225.9	233.1	248.1	275.9	326.2	404.4	511.4	662.6	875.5	1105.0	1347.3
67.5°	143.1	144.5	147.9	151.8	164.7	191.7	241.6	335.8	511.0	750.4	1034.0
70°	123.7	123.7	122.2	121.6	123.1	126.9	134.6	156.6	215.7	356.2	596.4
72.5°	113.3	112.1	109.3	107.1	106.7	106.7	108.3	111.7	121.2	145.1	233.4
75°	104.4	101.0	97.3	94.7	93.7	92.7	92.5	93.1	95.1	98.8	111.5
77.5°	93.5	89.1	84.8	82.2	81.0	79.7	78.5	77.1	76.1	77.3	82.8
80°	80.5	75.5	72.1	70.6	69.4	67.4	64.8	62.5	60.3	59.9	63.3
82.5°	64.8	59.1	59.3	59.9	57.7	55.0	52.2	49.6	45.9	43.9	45.9
85°	52.4	49.4	48.0	51.8	48.6	44.5	40.1	35.6	29.7	24.9	27.1
87.5°	20.4	20.4	30.4	46.8	42.1	34.4	29.5	25.1	15.6	12.1	12.3
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°	463.9	463.9	463.9	463.9	463.9	463.9	463.9	463.9
2.5°	464.7	465.1	464.9	464.7	464.7	464.5	464.7	464.7
5°	468.3	469.3	469.3	469.7	469.7	469.9	470.1	469.9
7.5°	473.6	475.4	476.6	478.0	478.2	478.4	478.8	478.4
10°	479.0	482.5	485.1	487.7	488.8	489.2	489.6	489.6
12.5°	485.7	490.6	495.2	499.7	501.9	503.1	503.1	503.9
15°	496.7	501.7	507.0	513.2	516.9	518.9	519.5	519.5
17.5°	512.4	516.7	521.3	527.2	531.9	534.5	535.1	534.9
20°	530.5	534.7	537.3	541.0	545.2	548.1	548.9	548.9
22.5°	551.3	553.7	554.1	555.3	558.6	562.6	564.4	564.7
25°	574.2	574.8	573.2	573.2	575.4	579.2	581.0	581.2
27.5°	603.9	600.9	597.0	595.6	597.0	601.3	603.5	604.3
30°	640.8	633.7	624.6	619.7	618.9	624.6	628.6	629.2
32.5°	683.2	672.9	660.8	650.7	648.2	651.7	656.5	656.3
35°	733.4	721.1	706.5	693.6	687.7	691.3	698.0	698.8
37.5°	791.3	775.3	758.5	742.3	733.0	734.0	741.1	743.4
40°	855.9	835.2	814.0	792.3	779.0	776.5	785.1	786.5
42.5°	925.1	898.4	871.7	844.8	827.8	823.9	834.0	833.4
45°	998.8	964.8	933.6	903.9	883.8	877.9	886.2	886.2
47.5°	1078.1	1036.2	999.0	965.4	943.5	935.0	942.9	943.5
50°	1162.1	1117.6	1073.9	1036.6	1010.3	999.4	1009.7	1011.3
52.5°	1245.7	1202.4	1158.4	1115.7	1083.8	1070.6	1082.4	1087.6
55°	1330.5	1288.0	1245.9	1204.2	1166.5	1150.8	1163.5	1170.0
57.5°	1420.1	1380.7	1340.6	1298.5	1262.1	1237.8	1251.3	1260.0
60°	1525.0	1491.4	1449.7	1403.3	1366.5	1341.8	1349.5	1357.2
62.5°	1608.1	1621.1	1585.7	1531.9	1484.7	1453.1	1460.6	1468.7
65°	1567.9	1701.7	1733.2	1678.8	1613.4	1564.2	1561.0	1565.2
67.5°	1310.6	1570.5	1760.1	1811.9	1757.1	1688.7	1676.1	1682.2
70°	876.7	1200.5	1534.9	1784.0	1850.2	1823.7	1811.3	1815.0
72.5°	421.0	699.2	1041.3	1372.4	1574.1	1666.6	1696.2	1710.6
75°	154.0	277.5	501.9	756.3	913.0	1056.9	1150.8	1189.2
77.5°	92.9	112.1	160.3	241.4	273.4	306.0	293.3	299.7
80°	68.8	77.7	88.0	98.8	102.4	102.4	98.4	95.3
82.5°	48.2	54.0	58.9	64.8	66.4	63.5	52.2	41.5
85°	31.0	33.6	35.8	39.5	38.5	36.8	24.7	21.9
87.5°	14.2	16.2	17.0	18.8	18.0	17.2	12.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)