

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: P190789

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4413 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

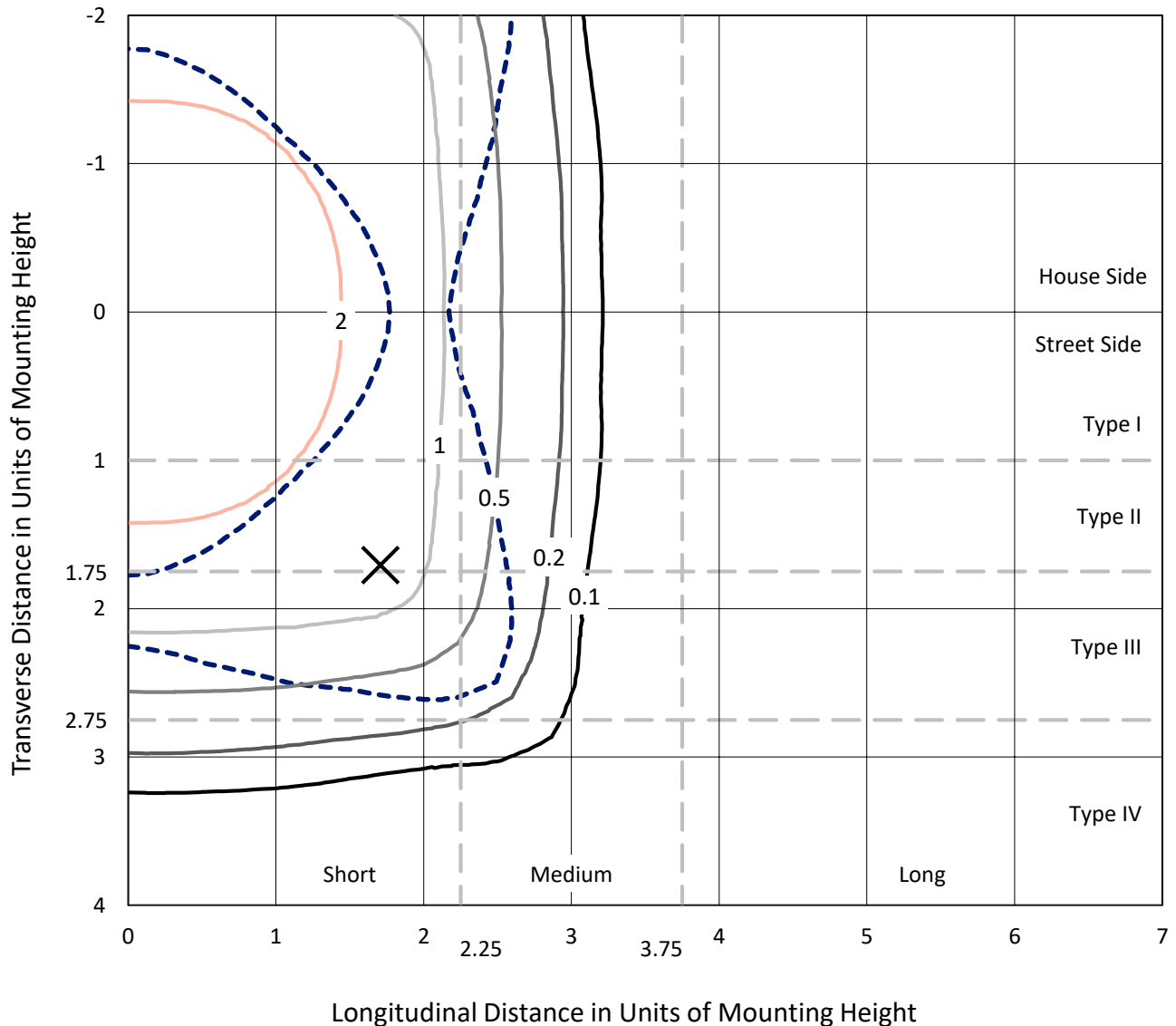
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

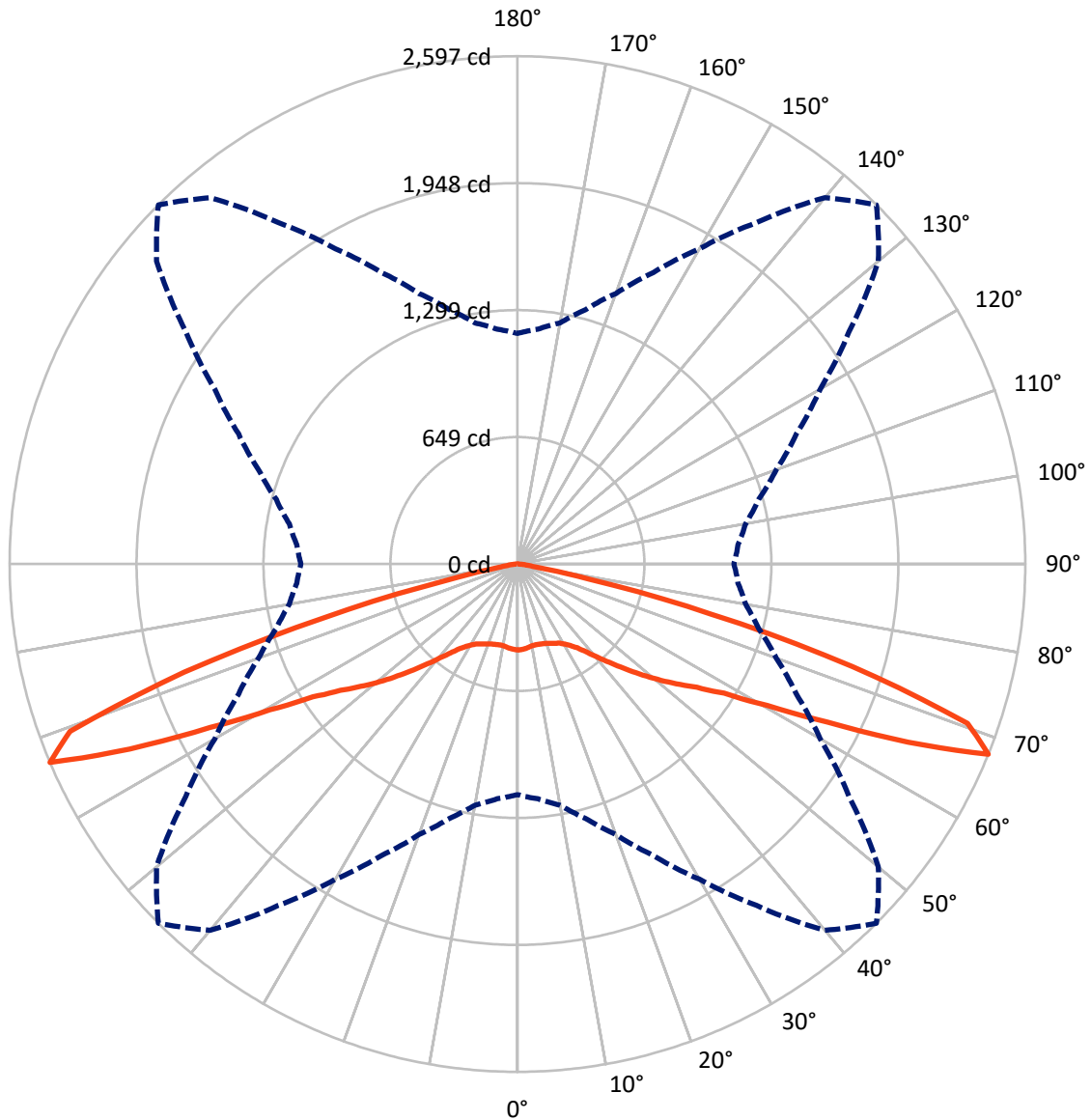
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2206.5	0.0	2206.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2206.5	0.0	2206.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4413.0	0.0	4413.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	0.9
10°-20°	119.4	2.7
20°-30°	203.0	4.6
30°-40°	331.9	7.5
40°-50°	592.5	13.4
50°-60°	999.0	22.6
60°-70°	1550.4	35.1
70°-80°	544.7	12.3
80°-90°	30.8	0.7
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°	4413.0	100.0
0°-180°	4413.0	100.0



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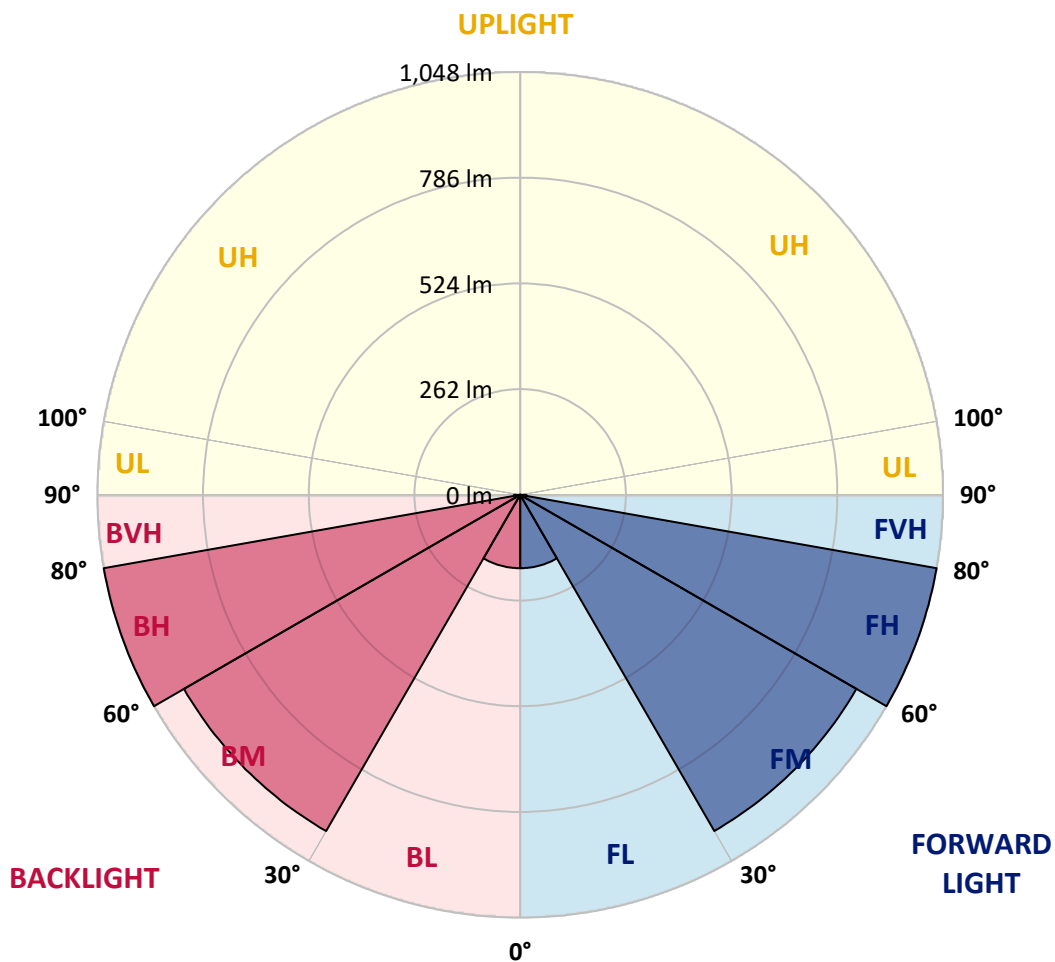
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.8	4.1			
FM	(30°-60°)	961.7	21.8			
FH	(60°-80°)	1047.5	23.7			G1/1800
FVH	(80°-90°)	15.4	0.3			G1/100
BL	(0°-30°)	181.8	4.1	B1/500		
BM	(30°-60°)	961.7	21.8	B1/1000		
BH	(60°-80°)	1047.5	23.7	B3/2500		G1/1800
BVH	(80°-90°)	15.4	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	438.1	438.5	438.5	438.5	438.3	438.3	437.9	438.3	438.1	437.5	437.7
5°	434.5	434.9	434.9	434.7	435.3	435.1	434.5	434.9	434.7	434.3	434.5
7.5°	429.2	429.8	429.8	429.6	430.3	430.0	429.6	429.8	429.8	429.2	429.2
10°	423.3	423.7	423.7	423.5	424.5	424.5	424.3	424.9	425.1	424.5	424.1
12.5°	417.9	418.5	418.5	419.3	420.3	420.7	421.8	422.5	423.3	423.1	422.3
15°	414.6	415.0	415.8	416.9	418.5	419.9	421.6	423.3	424.9	425.3	424.1
17.5°	412.6	413.2	414.4	415.8	418.1	420.5	422.9	425.3	427.6	428.4	427.0
20°	411.9	412.4	413.6	416.0	419.1	422.7	426.2	429.0	432.1	433.1	432.1
22.5°	413.2	414.0	415.4	418.3	422.3	427.0	431.1	434.9	438.7	440.6	439.2
25°	418.7	419.5	421.4	424.9	429.4	434.3	438.9	443.4	446.9	448.7	447.6
27.5°	428.8	429.8	432.1	435.7	440.6	445.9	450.9	454.6	457.5	458.1	456.8
30°	444.1	446.3	448.9	453.0	458.7	463.1	468.2	471.5	474.9	474.9	473.8
32.5°	467.8	470.0	472.8	476.7	481.2	486.0	490.5	493.4	497.1	497.3	494.8
35°	503.3	504.3	506.8	509.2	513.2	517.5	521.4	523.1	526.2	526.4	524.2
37.5°	550.1	550.3	552.0	552.8	556.5	561.1	564.8	566.0	568.9	568.5	566.2
40°	604.8	605.8	606.4	607.6	611.4	615.9	619.8	620.4	623.5	622.9	620.0
42.5°	667.9	668.3	671.8	673.6	677.2	679.4	684.4	685.0	688.5	686.9	683.7
45°	738.7	742.4	745.6	749.3	753.1	755.8	759.6	758.8	761.3	758.8	757.0
47.5°	813.1	815.8	823.2	828.8	835.1	837.4	842.8	840.4	842.8	839.3	838.7
50°	895.2	899.9	906.1	912.7	919.3	923.0	930.1	927.0	930.3	927.0	925.3
52.5°	976.0	977.1	990.9	1000.5	1009.9	1014.1	1018.3	1016.9	1017.1	1016.9	1015.1
55°	1052.6	1055.5	1069.3	1082.3	1098.5	1110.5	1117.8	1117.0	1115.1	1113.4	1110.3
57.5°	1139.2	1141.9	1157.8	1173.8	1192.2	1209.3	1224.2	1239.4	1245.2	1246.9	1240.2
60°	1256.0	1255.8	1276.9	1296.4	1322.8	1348.1	1380.6	1413.7	1451.7	1469.3	1445.9
62.5°	1374.9	1379.8	1410.2	1444.7	1499.1	1552.1	1612.0	1670.8	1730.9	1779.8	1727.9
65°	1360.7	1379.3	1424.7	1502.8	1603.3	1722.5	1851.6	1988.2	2111.6	2196.5	2101.2
67.5°	1179.3	1205.9	1252.0	1346.9	1472.5	1644.6	1861.4	2131.5	2445.5	2597.3	2409.2
70°	854.8	884.9	933.1	1025.9	1150.3	1313.9	1549.3	1873.5	2289.2	2442.2	2235.0
72.5°	425.3	441.6	471.5	530.5	624.6	757.4	970.9	1282.6	1650.3	1790.8	1601.4
75°	144.5	152.0	157.1	176.4	206.2	258.3	364.5	560.7	855.4	1025.5	843.2
77.5°	83.4	83.6	87.1	90.5	95.5	101.3	115.5	151.6	262.2	372.4	271.3
80°	54.0	53.8	56.7	59.2	62.7	65.6	66.4	70.2	81.0	96.0	85.8
82.5°	28.0	31.5	37.7	41.2	47.7	48.9	47.3	45.8	48.5	50.3	51.6
85°	15.4	13.4	20.0	26.0	28.8	29.3	29.3	27.6	28.6	28.0	30.5
87.5°	7.1	6.4	7.9	12.8	13.6	11.6	12.2	10.7	7.7	7.5	8.5
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°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	439.8
2.5°	437.7	437.9	437.9	438.5	438.7	439.2	439.6	439.8
5°	434.3	434.9	434.5	435.1	435.1	435.5	435.5	435.7
7.5°	429.2	429.8	429.8	429.8	429.6	430.3	430.3	430.3
10°	423.9	424.3	424.1	423.7	423.3	423.9	423.7	423.5
12.5°	422.3	421.4	420.5	420.1	419.3	419.5	418.9	418.9
15°	423.3	421.6	420.1	419.5	418.7	418.3	417.9	418.1
17.5°	426.0	423.7	422.0	420.9	419.9	419.3	418.5	418.7
20°	430.7	428.0	425.3	423.3	421.6	420.5	419.9	419.7
22.5°	437.5	433.7	429.8	426.8	424.3	422.9	422.3	422.0
25°	445.5	441.2	436.7	433.3	430.9	429.0	427.8	427.8
27.5°	455.4	451.9	447.8	443.9	441.6	439.8	438.9	438.5
30°	472.1	468.8	465.5	461.7	458.9	457.1	455.6	454.4
32.5°	493.4	490.7	488.0	485.2	482.6	480.2	477.9	476.9
35°	523.3	521.4	519.6	516.3	515.3	513.8	512.6	511.6
37.5°	564.8	564.0	564.0	560.5	559.8	559.1	557.9	558.1
40°	619.2	620.0	619.0	617.8	617.1	615.5	615.5	616.9
42.5°	683.5	684.1	686.4	684.4	686.5	684.6	683.3	684.4
45°	758.2	760.5	764.9	762.8	764.2	760.9	756.6	756.8
47.5°	842.0	844.0	845.9	844.4	844.7	838.9	833.3	831.9
50°	929.0	929.9	930.9	928.8	929.2	923.0	916.5	916.7
52.5°	1015.1	1019.0	1023.1	1017.5	1016.3	1009.2	1000.1	996.5
55°	1113.6	1119.0	1114.4	1104.8	1095.3	1085.8	1073.8	1071.7
57.5°	1234.9	1225.6	1211.0	1192.9	1179.7	1166.3	1154.1	1149.1
60°	1403.8	1368.6	1342.2	1315.5	1298.6	1282.2	1266.1	1263.8
62.5°	1642.4	1581.7	1529.2	1473.8	1428.6	1393.2	1365.0	1357.0
65°	1941.6	1798.0	1673.6	1557.5	1456.7	1380.6	1332.7	1311.6
67.5°	2070.2	1786.9	1573.6	1408.8	1276.9	1184.8	1133.0	1107.2
70°	1819.2	1481.8	1249.9	1084.9	964.7	866.5	819.7	792.1
72.5°	1251.6	942.6	745.4	608.5	512.4	430.3	397.7	395.4
75°	561.9	372.1	256.6	197.6	166.4	144.7	138.0	132.9
77.5°	157.3	116.3	103.7	97.0	90.5	83.0	80.2	80.8
80°	76.5	72.2	69.4	65.2	59.2	53.0	50.1	51.4
82.5°	50.7	50.1	52.0	48.9	40.4	34.3	28.8	26.4
85°	30.9	31.3	31.8	32.0	27.2	19.0	13.0	14.6
87.5°	12.2	14.0	15.2	15.9	14.8	9.1	7.3	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)