

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: P200541

Luminaire Tested: **GPC-AF-01-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200541
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: GPC-AF-01-LED-E1-5MQ-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4403 lumens
Efficiency: N/A
Efficacy: 100.1 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

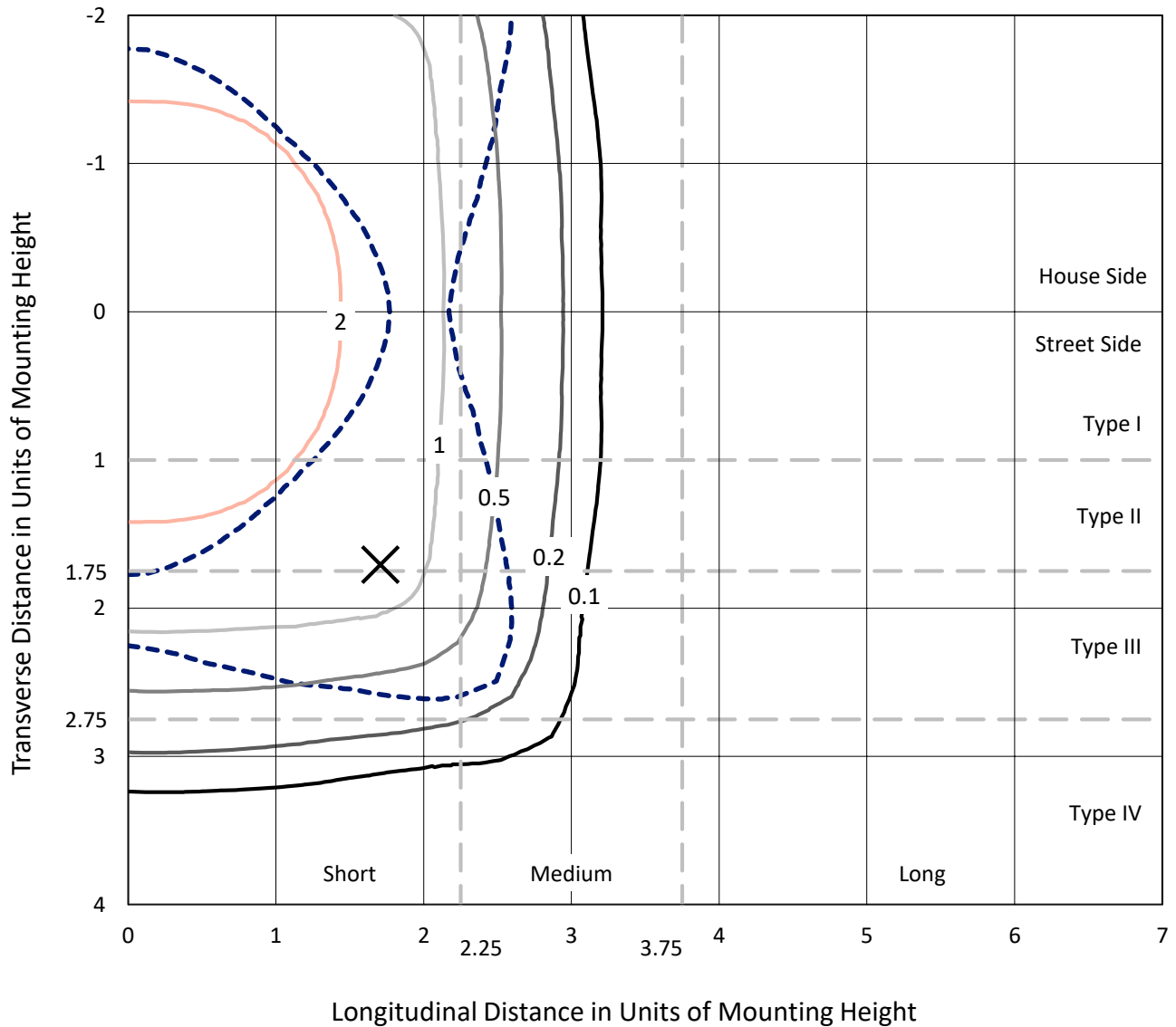
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

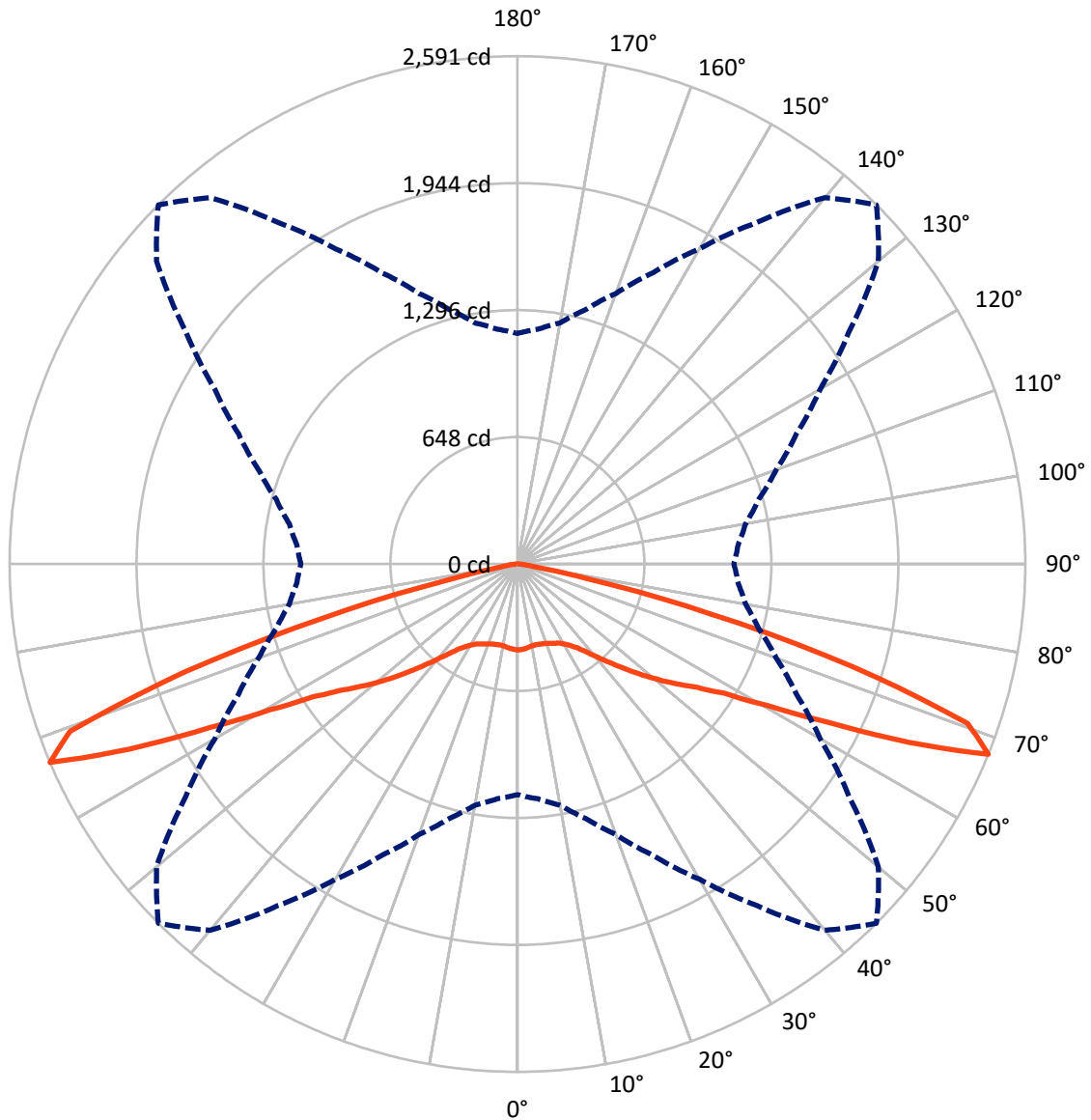
× Max cd
 - - - 1/2 Max cd



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	2201.5	0.0	2201.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2201.5	0.0	2201.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4403.0	0.0	4403.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	0.9
10°-20°	119.2	2.7
20°-30°	202.6	4.6
30°-40°	331.2	7.5
40°-50°	591.2	13.4
50°-60°	996.8	22.6
60°-70°	1546.8	35.1
70°-80°	543.5	12.3
80°-90°	30.7	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°	4403.0	100.0
0°-180°	4403.0	100.0



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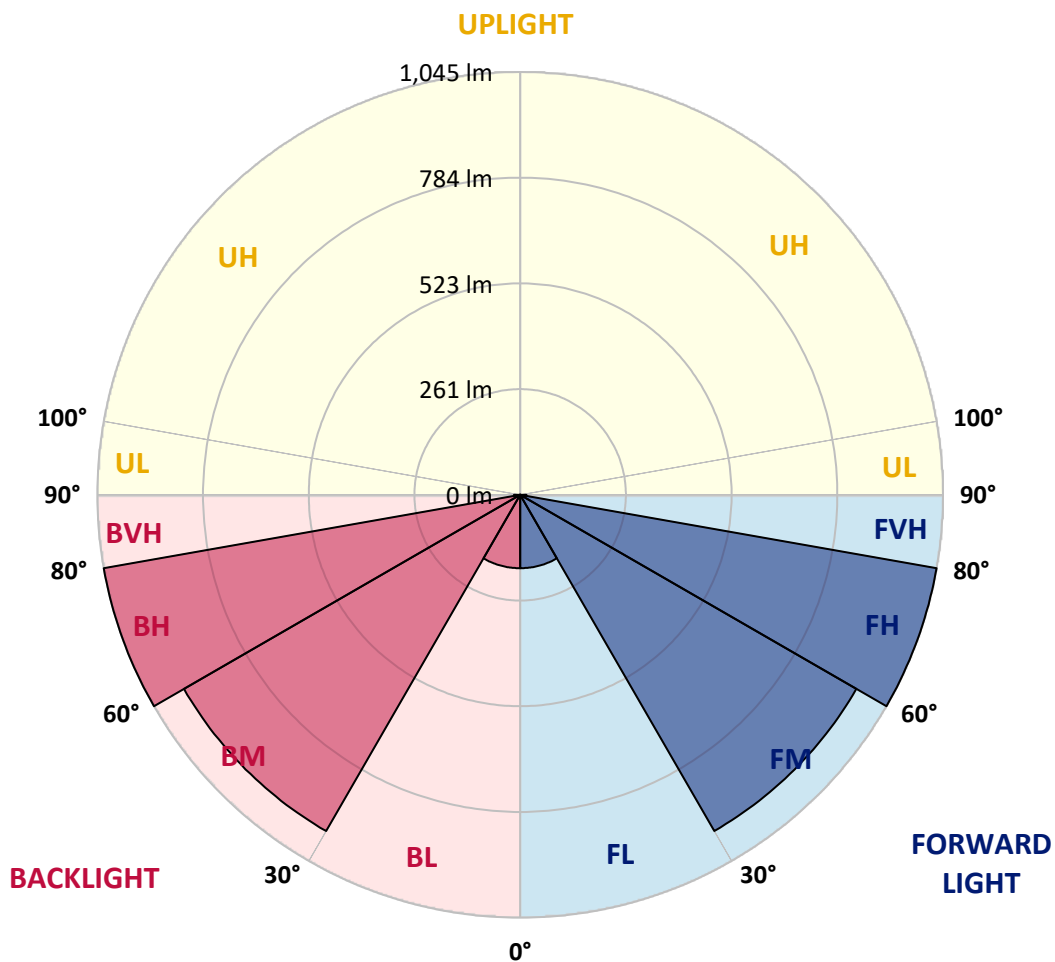
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.4	4.1			
FM	(30°-60°)	959.6	21.8			
FH	(60°-80°)	1045.2	23.7			G1/1800
FVH	(80°-90°)	15.4	0.3			G1/100
BL	(0°-30°)	181.4	4.1	B1/500		
BM	(30°-60°)	959.6	21.8	B1/1000		
BH	(60°-80°)	1045.2	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°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	437.2	437.6	437.6	437.6	437.4	437.4	437.0	437.4	437.2	436.6	436.8
5°	433.5	433.9	433.9	433.7	434.3	434.1	433.5	433.9	433.7	433.3	433.5
7.5°	428.2	428.9	428.9	428.7	429.3	429.1	428.7	428.9	428.9	428.2	428.2
10°	422.4	422.8	422.8	422.6	423.6	423.6	423.4	424.0	424.2	423.6	423.2
12.5°	416.9	417.5	417.5	418.3	419.3	419.7	420.8	421.6	422.4	422.2	421.4
15°	413.7	414.1	414.9	415.9	417.5	418.9	420.6	422.4	424.0	424.4	423.2
17.5°	411.6	412.3	413.5	414.9	417.1	419.5	422.0	424.4	426.6	427.4	426.0
20°	411.0	411.4	412.7	415.1	418.1	421.8	425.2	428.0	431.1	432.1	431.1
22.5°	412.3	413.1	414.5	417.3	421.4	426.0	430.1	433.9	437.8	439.6	438.2
25°	417.7	418.5	420.4	424.0	428.5	433.3	438.0	442.4	445.9	447.7	446.7
27.5°	427.8	428.9	431.1	434.7	439.6	444.9	449.9	453.6	456.4	457.0	455.8
30°	443.0	445.3	447.9	451.9	457.6	462.1	467.1	470.4	473.8	473.8	472.8
32.5°	466.7	468.9	471.8	475.6	480.1	484.9	489.4	492.2	495.9	496.1	493.7
35°	502.2	503.2	505.6	508.0	512.1	516.3	520.2	522.0	525.0	525.2	523.0
37.5°	548.9	549.1	550.7	551.6	555.2	559.9	563.5	564.7	567.6	567.2	564.9
40°	603.4	604.4	605.0	606.2	610.1	614.5	618.4	619.0	622.0	621.4	618.6
42.5°	666.4	666.8	670.2	672.0	675.7	677.9	682.8	683.4	687.0	685.4	682.2
45°	737.0	740.7	743.9	747.6	751.4	754.0	757.9	757.1	759.5	757.1	755.3
47.5°	811.3	814.0	821.3	826.9	833.2	835.4	840.9	838.5	840.9	837.5	836.9
50°	893.1	897.8	904.1	910.6	917.2	920.9	928.0	924.9	928.2	924.9	923.1
52.5°	973.7	974.9	988.7	998.2	1007.5	1011.8	1016.1	1014.6	1014.8	1014.6	1012.8
55°	1050.3	1053.1	1066.9	1079.8	1096.0	1108.0	1115.3	1114.5	1112.6	1110.8	1107.8
57.5°	1136.5	1139.4	1155.2	1171.2	1189.6	1206.6	1221.4	1236.6	1242.4	1244.0	1237.4
60°	1253.2	1253.0	1274.0	1293.5	1319.8	1345.1	1377.5	1410.5	1448.4	1466.0	1442.7
62.5°	1371.8	1376.7	1407.0	1441.5	1495.7	1548.6	1608.3	1667.0	1727.0	1775.8	1723.9
65°	1357.6	1376.3	1421.4	1499.4	1599.6	1718.7	1847.4	1983.7	2106.8	2191.5	2096.5
67.5°	1176.6	1203.1	1249.1	1343.9	1469.2	1640.9	1857.2	2126.7	2439.9	2591.4	2403.7
70°	852.9	882.8	931.0	1023.5	1147.7	1310.9	1545.7	1869.3	2284.0	2436.7	2229.9
72.5°	424.4	440.6	470.4	529.3	623.2	755.7	968.7	1279.7	1646.6	1786.7	1597.8
75°	144.2	151.7	156.7	176.0	205.7	257.8	363.7	559.5	853.5	1023.1	841.3
77.5°	83.2	83.4	86.9	90.3	95.4	101.0	115.2	151.3	261.6	371.6	270.7
80°	53.9	53.7	56.5	59.1	62.6	65.4	66.2	70.1	80.8	95.8	85.6
82.5°	27.9	31.4	37.7	41.1	47.6	48.8	47.2	45.8	48.4	50.2	51.4
85°	15.4	13.4	20.0	25.9	28.8	29.2	29.2	27.5	28.5	27.9	30.4
87.5°	7.1	6.5	7.9	12.8	13.6	11.5	12.1	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°	438.8	438.8	438.8	438.8	438.8	438.8	438.8	438.8
2.5°	436.8	437.0	437.0	437.6	437.8	438.2	438.6	438.8
5°	433.3	433.9	433.5	434.1	434.1	434.5	434.5	434.7
7.5°	428.2	428.9	428.9	428.9	428.7	429.3	429.3	429.3
10°	423.0	423.4	423.2	422.8	422.4	423.0	422.8	422.6
12.5°	421.4	420.4	419.5	419.1	418.3	418.5	417.9	417.9
15°	422.4	420.6	419.1	418.5	417.7	417.3	416.9	417.1
17.5°	425.0	422.8	421.0	419.9	418.9	418.3	417.5	417.7
20°	429.7	427.0	424.4	422.4	420.6	419.5	418.9	418.7
22.5°	436.6	432.7	428.9	425.8	423.4	422.0	421.4	421.0
25°	444.4	440.2	435.7	432.3	429.9	428.0	426.8	426.8
27.5°	454.4	450.9	446.9	442.8	440.6	438.8	438.0	437.6
30°	471.0	467.7	464.5	460.6	457.8	456.0	454.6	453.4
32.5°	492.2	489.6	487.0	484.1	481.5	479.1	476.8	475.8
35°	522.2	520.2	518.4	515.1	514.1	512.7	511.5	510.5
37.5°	563.5	562.7	562.7	559.3	558.4	557.8	556.6	556.8
40°	617.8	618.6	617.6	616.4	615.7	614.1	614.1	615.5
42.5°	682.0	682.6	684.8	682.8	685.0	683.0	681.8	682.8
45°	756.5	758.7	763.2	761.1	762.5	759.1	754.9	755.1
47.5°	840.1	842.1	843.9	842.5	842.7	837.1	831.4	830.0
50°	927.0	927.8	928.8	926.8	927.2	920.9	914.4	914.6
52.5°	1012.8	1016.7	1020.7	1015.2	1014.0	1006.9	997.8	994.2
55°	1111.0	1116.5	1111.8	1102.3	1092.8	1083.3	1071.3	1069.3
57.5°	1232.1	1222.8	1208.2	1190.2	1177.0	1163.7	1151.5	1146.5
60°	1400.6	1365.5	1339.2	1312.5	1295.7	1279.3	1263.3	1260.9
62.5°	1638.7	1578.1	1525.7	1470.4	1425.3	1390.0	1361.9	1354.0
65°	1937.1	1794.0	1669.9	1554.0	1453.4	1377.5	1329.7	1308.6
67.5°	2065.5	1782.9	1570.0	1405.6	1274.0	1182.1	1130.5	1104.7
70°	1815.0	1478.5	1247.1	1082.5	962.6	864.6	817.8	790.3
72.5°	1248.7	940.5	743.7	607.0	511.3	429.3	396.9	394.4
75°	560.7	371.4	255.9	197.2	166.0	144.4	137.7	132.6
77.5°	156.9	116.0	103.5	96.8	90.3	82.8	80.0	80.6
80°	76.3	72.1	69.2	65.0	59.1	52.8	50.0	51.2
82.5°	50.6	50.0	51.8	48.8	40.3	34.2	28.8	26.3
85°	30.8	31.2	31.8	32.0	27.1	19.0	13.0	14.6
87.5°	12.1	14.0	15.2	15.8	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)