

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: P821161

Luminaire Tested: **TT-D4-830-24VDC-CQ**

Issue Date: 2/18/2020



Test Information

Test Method: LM-79-08
Report Number: P821161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/18/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-830-24VDC-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

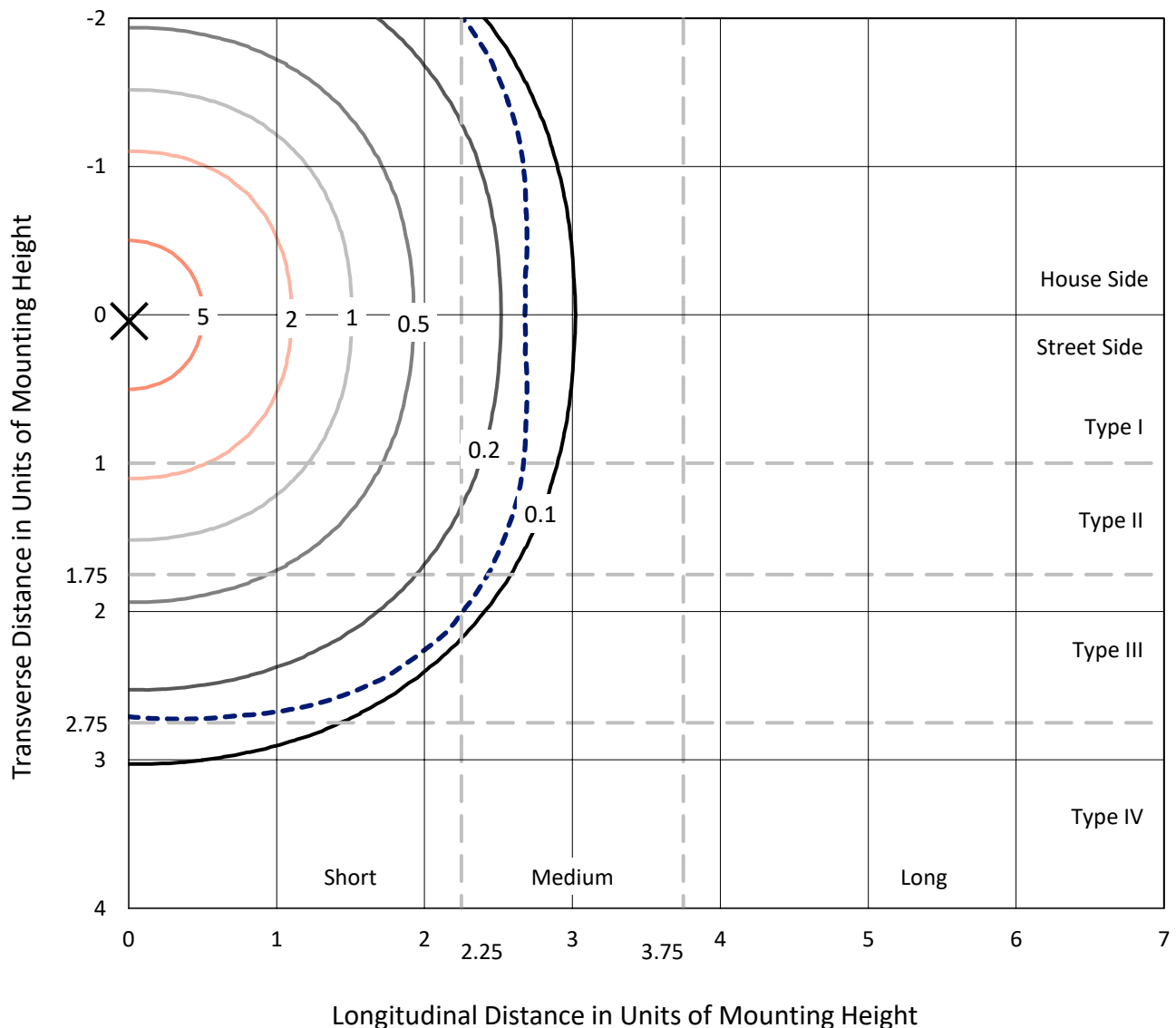
Lumens per Lamp: N/A
Luminaire Lumens: 6660 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 57
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

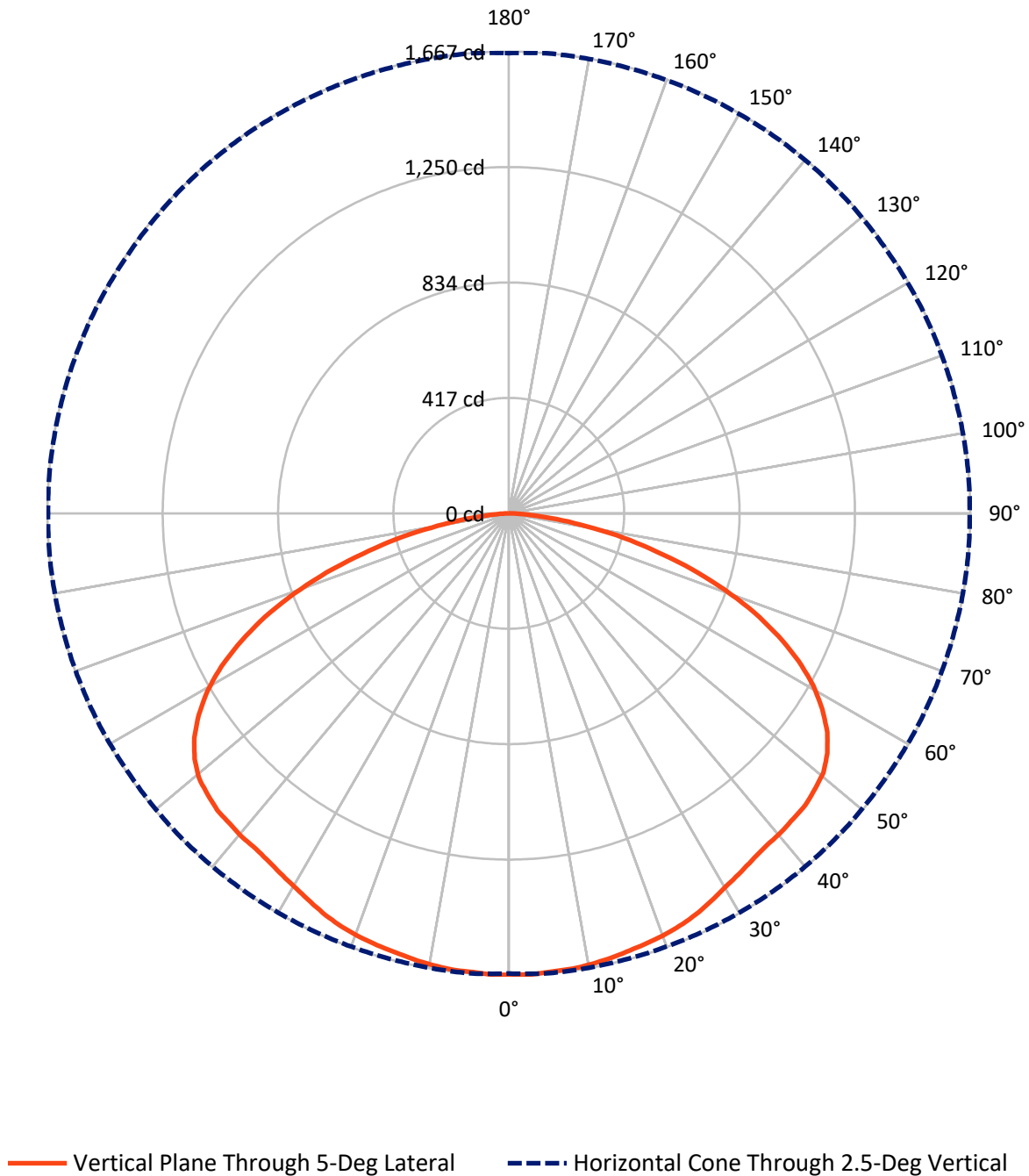
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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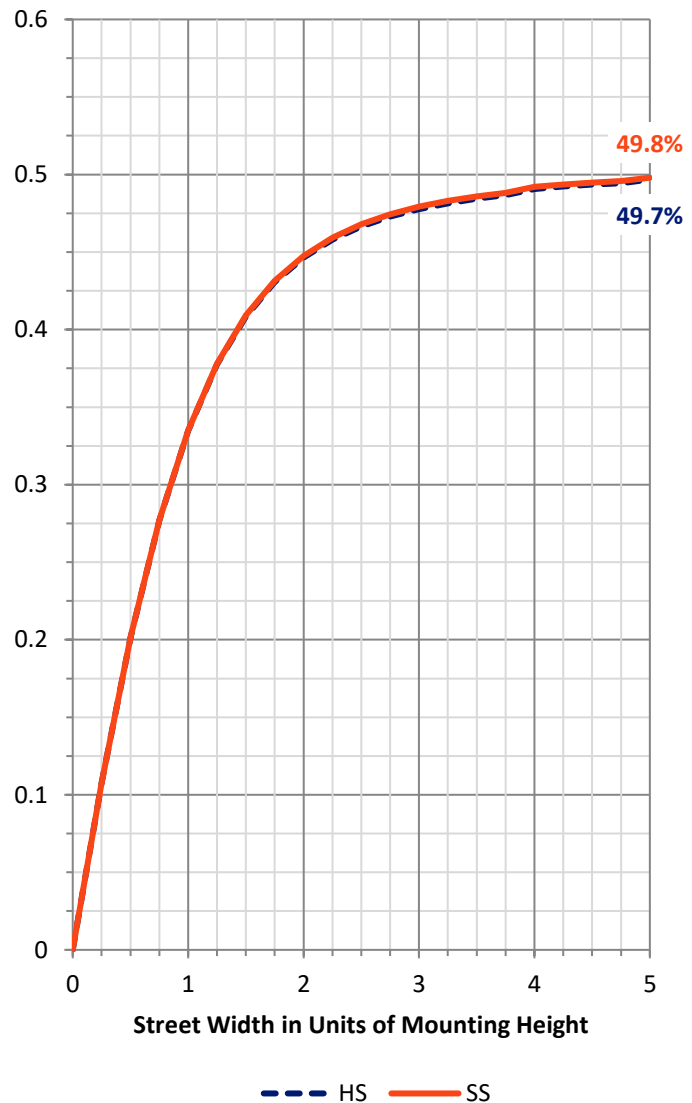
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3330.0	0.0	3330.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3330.0	0.0	3330.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6660.0	0.0	6660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.4
10°-20°	464.1	7.0
20°-30°	738.0	11.1
30°-40°	970.9	14.6
40°-50°	1188.3	17.8
50°-60°	1287.1	19.3
60°-70°	1107.3	16.6
70°-80°	622.5	9.3
80°-90°	123.4	1.9
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°	6660.0	100.0
0°-180°	6660.0	100.0

Coefficient of Utilization



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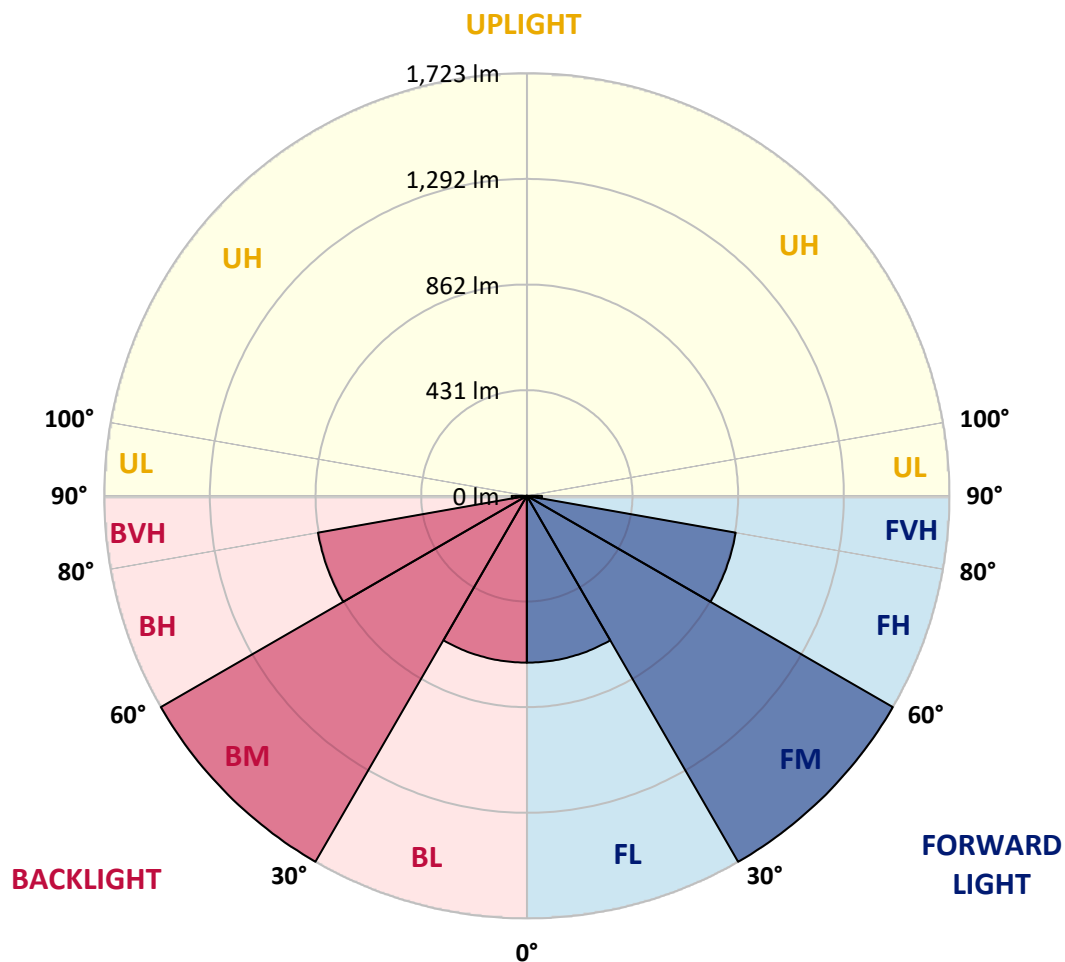
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.3	10.2			
FM	(30°-60°)	1723.1	25.9			
FH	(60°-80°)	864.9	13.0			G1/1800
FVH	(80°-90°)	61.7	0.9			G1/100
BL	(0°-30°)	680.3	10.2	B2/1000		
BM	(30°-60°)	1723.1	25.9	B2/2500		
BH	(60°-80°)	864.9	13.0	B2/1000		G1/1800
BVH	(80°-90°)	61.7	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1
2.5°	1661.9	1667.2	1665.1	1665.1	1665.1	1665.1	1663.0	1665.1	1665.1	1666.1	1665.1
5°	1663.0	1661.9	1661.9	1663.0	1663.0	1664.0	1661.9	1663.0	1664.0	1664.0	1665.1
7.5°	1659.8	1660.8	1658.7	1660.8	1658.7	1659.8	1659.8	1660.8	1659.8	1660.8	1663.0
10°	1653.4	1654.5	1653.4	1653.4	1653.4	1655.5	1651.3	1654.5	1653.4	1654.5	1653.4
12.5°	1641.8	1647.1	1644.9	1647.1	1647.1	1647.1	1643.9	1646.0	1647.1	1647.1	1647.1
15°	1636.5	1637.5	1634.3	1638.6	1639.6	1640.7	1636.5	1638.6	1638.6	1639.6	1640.7
17.5°	1624.8	1630.1	1629.0	1632.2	1631.2	1634.3	1633.3	1632.2	1631.2	1633.3	1631.2
20°	1616.3	1621.6	1620.6	1623.7	1624.8	1628.0	1624.8	1624.8	1621.6	1622.7	1625.9
22.5°	1607.8	1610.0	1610.0	1613.1	1613.1	1616.3	1613.1	1612.1	1612.1	1611.0	1614.2
25°	1594.1	1595.1	1594.1	1597.2	1599.4	1601.5	1600.4	1598.3	1597.2	1597.2	1596.2
27.5°	1571.8	1576.0	1578.2	1582.4	1583.5	1586.6	1582.4	1582.4	1580.3	1578.2	1579.2
30°	1554.8	1557.0	1557.0	1566.5	1566.5	1571.8	1566.5	1565.4	1564.4	1563.3	1561.2
32.5°	1539.0	1542.1	1545.3	1552.7	1558.0	1560.1	1557.0	1554.8	1549.5	1546.4	1545.3
35°	1526.2	1527.3	1533.7	1544.3	1550.6	1555.9	1551.7	1546.4	1539.0	1533.7	1537.9
37.5°	1516.7	1517.8	1527.3	1541.1	1552.7	1557.0	1550.6	1542.1	1530.5	1524.1	1522.0
40°	1508.2	1514.6	1525.2	1544.3	1557.0	1563.3	1558.0	1546.4	1529.4	1516.7	1515.6
42.5°	1504.0	1507.2	1523.1	1545.3	1563.3	1571.8	1564.4	1548.5	1527.3	1512.5	1511.4
45°	1493.4	1502.9	1517.8	1546.4	1566.5	1577.1	1566.5	1546.4	1520.9	1504.0	1500.8
47.5°	1484.9	1488.1	1511.4	1544.3	1568.6	1577.1	1566.5	1541.1	1509.3	1487.0	1484.9
50°	1464.8	1472.2	1495.5	1530.5	1559.1	1567.6	1554.8	1520.9	1484.9	1460.5	1456.3
52.5°	1434.0	1440.4	1467.9	1511.4	1539.0	1548.5	1529.4	1493.4	1451.0	1421.3	1421.3
55°	1386.3	1395.9	1424.5	1469.0	1504.0	1512.5	1490.2	1452.0	1404.3	1374.7	1373.6
57.5°	1329.1	1335.5	1366.2	1414.9	1448.9	1461.6	1439.3	1396.9	1349.2	1314.3	1311.1
60°	1254.9	1263.4	1296.2	1342.9	1377.8	1388.4	1369.4	1327.0	1278.2	1241.1	1241.1
62.5°	1165.9	1175.4	1208.3	1256.0	1292.0	1307.9	1281.4	1241.1	1190.2	1154.2	1151.0
65°	1062.0	1070.5	1100.2	1150.0	1187.1	1198.7	1178.6	1136.2	1087.4	1053.5	1050.3
67.5°	945.4	957.1	986.8	1029.1	1060.9	1075.8	1063.1	1024.9	974.0	939.1	935.9
70°	819.3	827.8	851.1	890.3	926.3	936.9	917.9	892.4	844.7	812.9	808.7
72.5°	684.7	692.1	711.2	748.3	773.7	787.5	776.9	744.0	705.9	679.4	683.6
75°	549.0	548.0	569.2	595.7	619.0	628.5	621.1	599.9	564.9	542.7	541.6
77.5°	413.4	424.0	431.4	453.6	472.7	480.1	469.5	452.6	426.1	408.1	411.2
80°	290.4	284.0	297.8	311.6	324.3	331.7	325.4	315.8	297.8	284.0	281.9
82.5°	178.1	172.8	179.1	191.8	200.3	202.4	203.5	191.8	184.4	173.8	175.9
85°	78.4	79.5	84.8	93.3	94.3	95.4	95.4	93.3	84.8	83.7	81.6
87.5°	19.1	19.1	20.1	23.3	23.3	24.4	24.4	21.2	20.1	18.0	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)