

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: P197643

Luminaire Tested: **TT-C4-LED-E1-MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33410)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-MQ-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7342.7 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 58
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



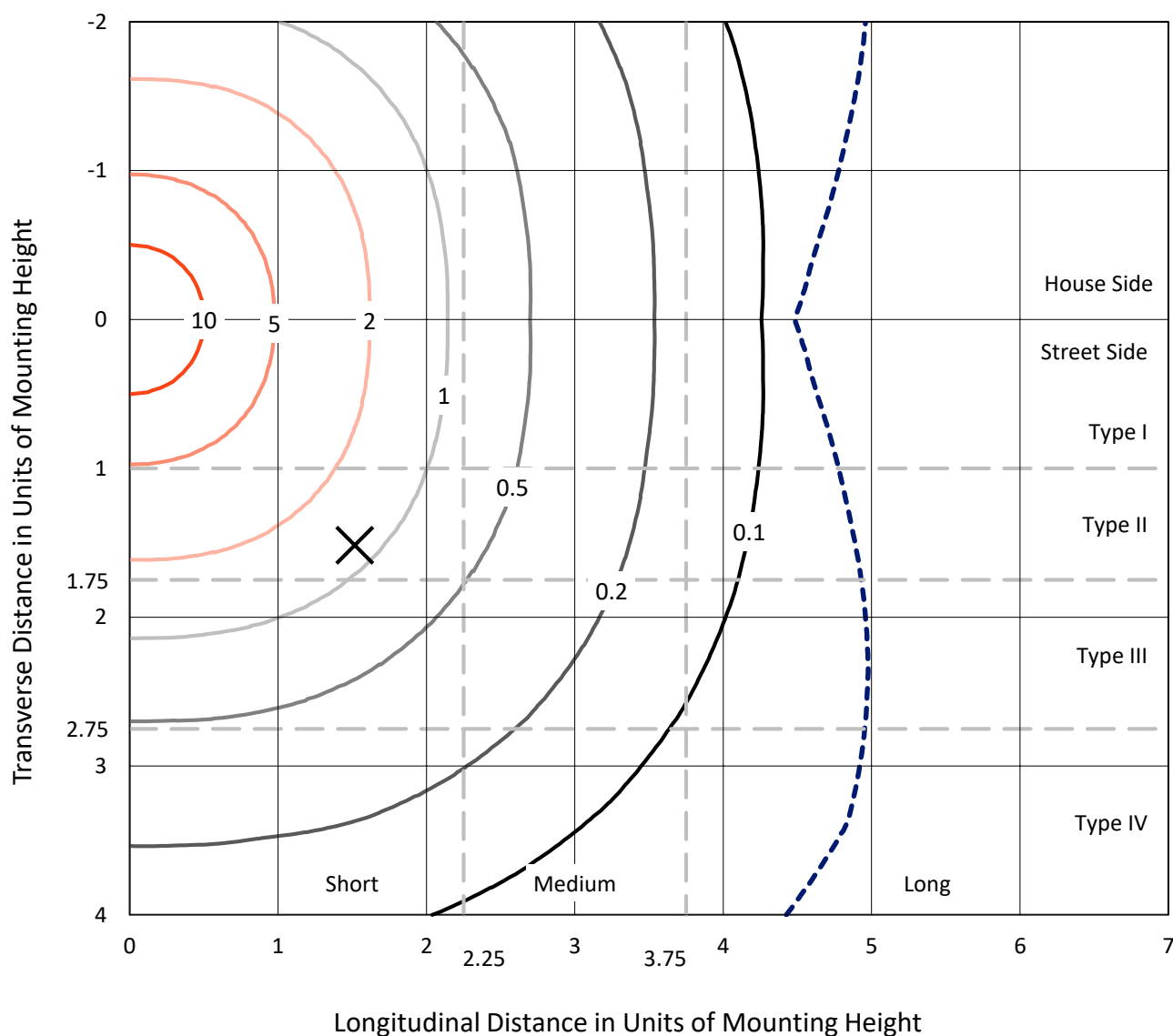
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

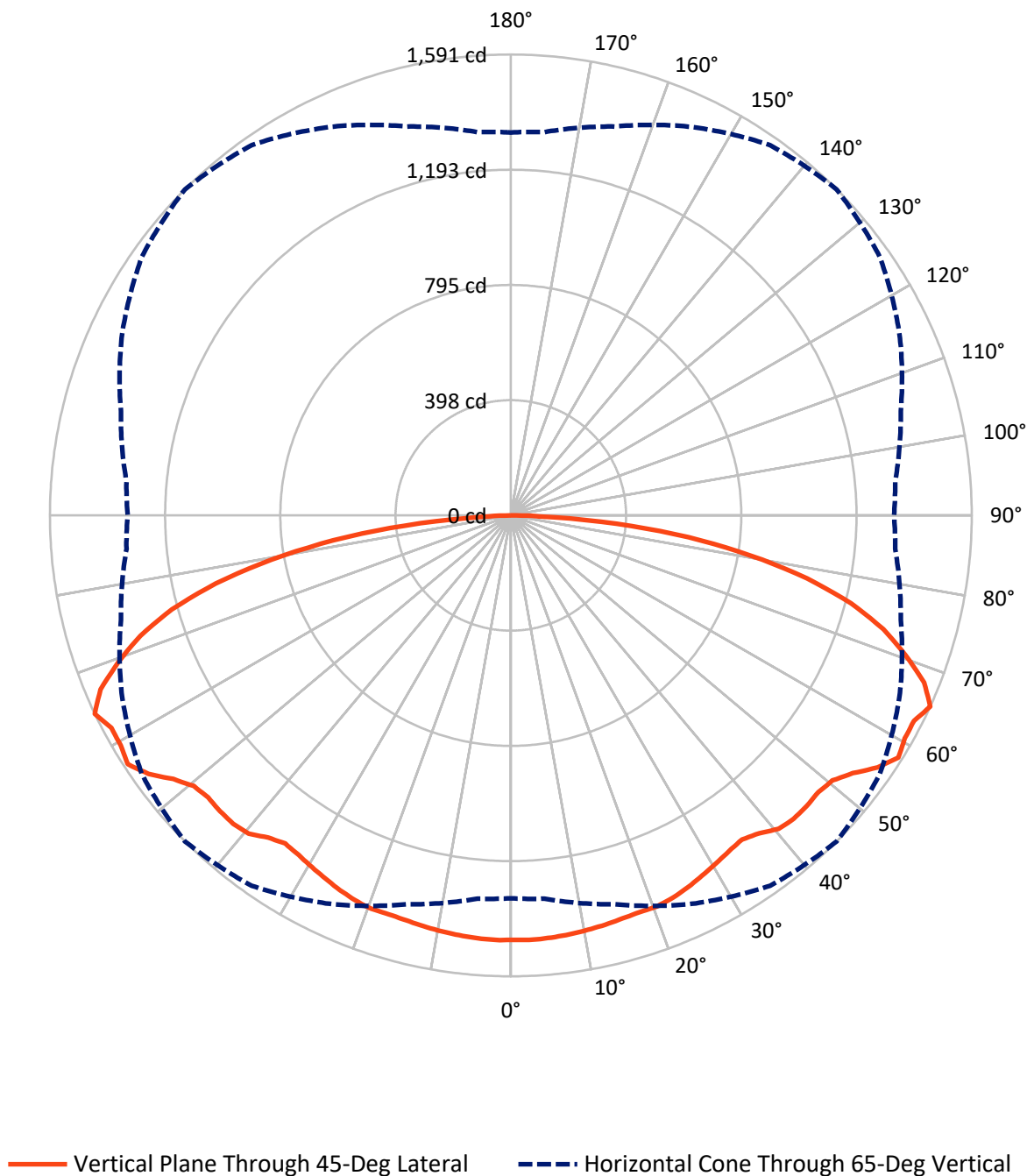


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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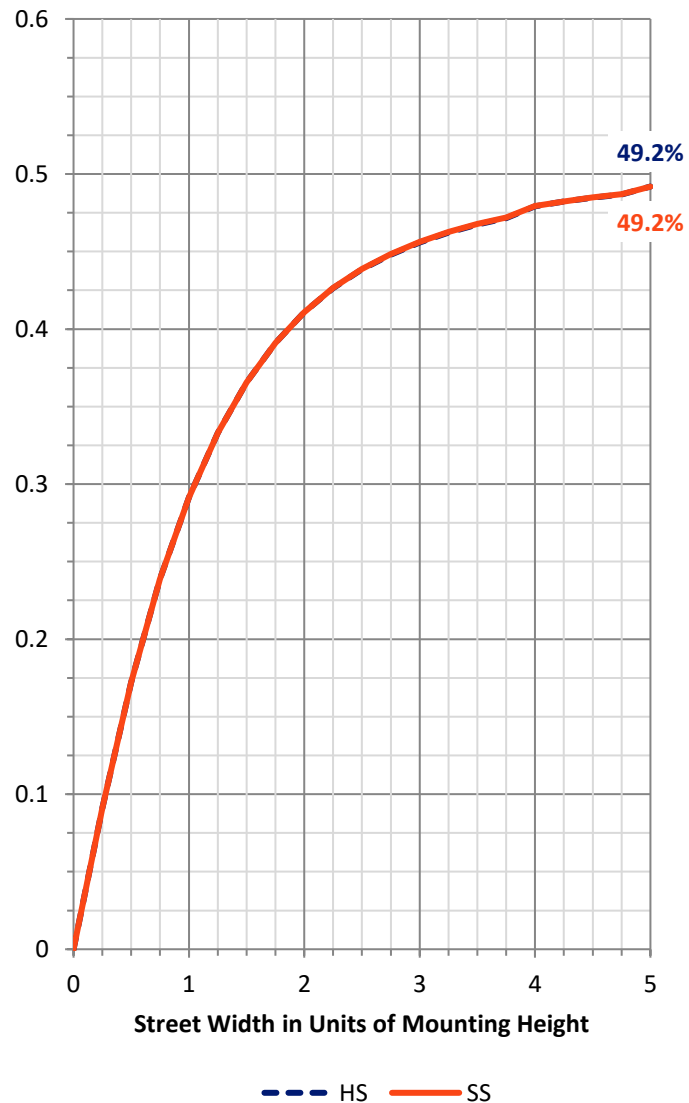
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3671.3	0.0	3671.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3671.3	0.0	3671.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	7342.7	0.0	7342.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.9
10°-20°	409.0	5.6
20°-30°	654.4	8.9
30°-40°	864.4	11.8
40°-50°	1080.5	14.7
50°-60°	1297.2	17.7
60°-70°	1417.9	19.3
70°-80°	1126.6	15.3
80°-90°	353.3	4.8
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°	7342.7	100.0
0°-180°	7342.7	100.0

Coefficient of Utilization



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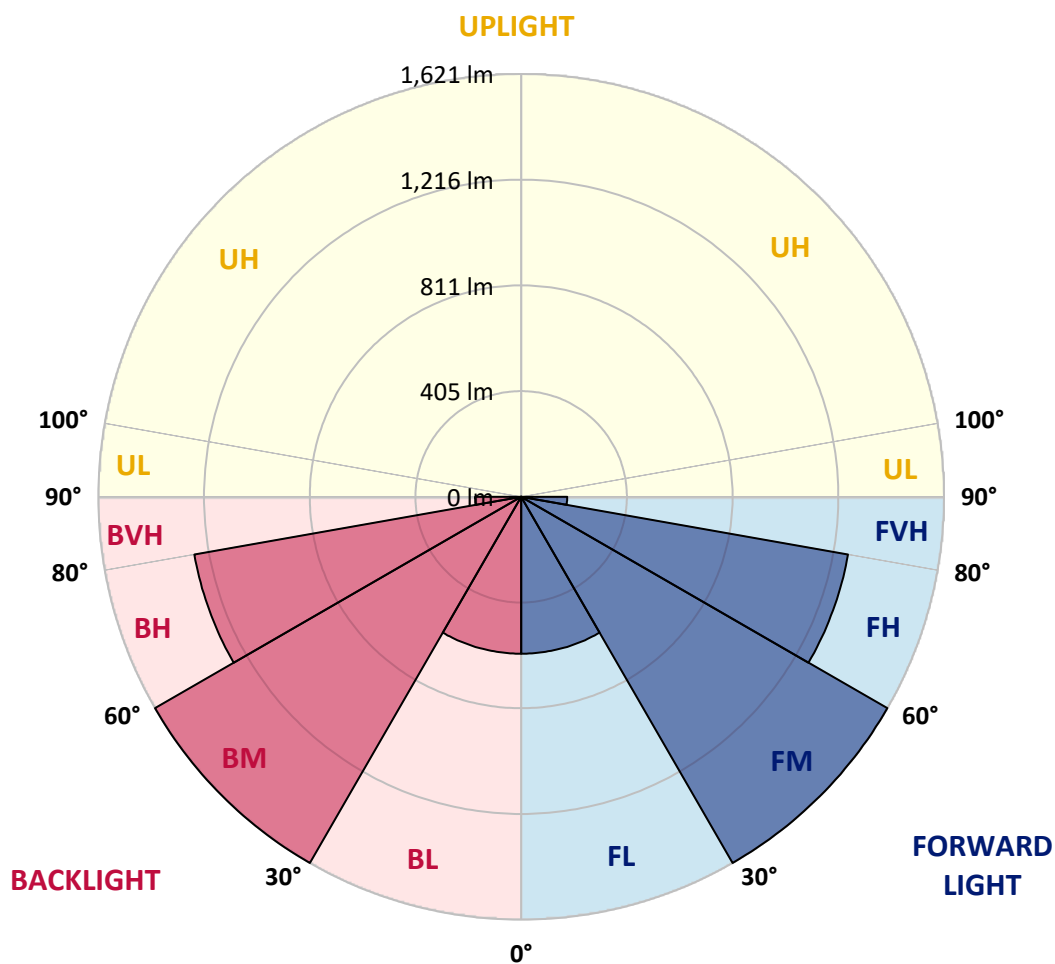
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.4	8.2			
FM	(30°-60°)	1621.0	22.1			
FH	(60°-80°)	1272.3	17.3			G1/1800
FVH	(80°-90°)	176.6	2.4			G2/225
BL	(0°-30°)	601.4	8.2	B2/1000		
BM	(30°-60°)	1621.0	22.1	B2/2500		
BH	(60°-80°)	1272.3	17.3	B3/2500		G1/1800
BVH	(80°-90°)	176.6	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1466.2	1466.2	1466.2	1466.2	1464.9	1466.2	1464.9	1464.9	1466.2	1466.2	1466.2
5°	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7	1463.7
7.5°	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8
10°	1454.7	1456.0	1456.0	1456.0	1454.7	1454.7	1454.7	1456.0	1456.0	1454.7	1454.7
12.5°	1449.6	1449.6	1450.8	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6	1449.6	1448.3
15°	1441.9	1441.9	1443.1	1443.1	1443.1	1443.1	1443.1	1441.9	1441.9	1440.6	1440.6
17.5°	1435.4	1435.4	1438.0	1438.0	1439.3	1439.3	1439.3	1436.7	1436.7	1434.2	1434.2
20°	1434.2	1434.2	1435.4	1438.0	1439.3	1440.6	1439.3	1436.7	1434.2	1431.6	1431.6
22.5°	1425.2	1426.5	1429.0	1430.3	1432.9	1432.9	1432.9	1429.0	1427.7	1425.2	1425.2
25°	1413.6	1412.4	1416.2	1418.8	1421.3	1421.3	1420.0	1417.5	1416.2	1412.4	1412.4
27.5°	1395.7	1397.0	1399.5	1403.4	1407.2	1407.2	1405.9	1403.4	1400.8	1398.2	1397.0
30°	1380.3	1381.6	1384.1	1388.0	1390.5	1394.4	1390.5	1388.0	1384.1	1382.8	1381.6
32.5°	1363.6	1364.9	1368.7	1375.2	1379.0	1381.6	1379.0	1376.4	1370.0	1366.2	1364.9
35°	1352.1	1353.3	1357.2	1366.2	1373.9	1373.9	1373.9	1367.5	1359.8	1353.3	1352.1
37.5°	1353.3	1355.9	1364.9	1377.7	1390.5	1391.8	1390.5	1377.7	1366.2	1355.9	1354.6
40°	1363.6	1366.2	1381.6	1400.8	1417.5	1422.6	1418.8	1400.8	1382.8	1368.7	1364.9
42.5°	1362.3	1366.2	1382.8	1407.2	1423.9	1431.6	1423.9	1407.2	1385.4	1370.0	1364.9
45°	1357.2	1359.8	1377.7	1403.4	1423.9	1431.6	1425.2	1405.9	1381.6	1363.6	1359.8
47.5°	1349.5	1352.1	1366.2	1397.0	1420.0	1427.7	1421.3	1400.8	1370.0	1355.9	1353.3
50°	1339.2	1346.9	1370.0	1402.1	1432.9	1438.0	1434.2	1404.7	1372.6	1352.1	1341.8
52.5°	1349.5	1348.2	1375.2	1432.9	1461.1	1477.8	1464.9	1430.3	1381.6	1354.6	1352.1
55°	1372.6	1382.8	1412.4	1466.2	1512.4	1535.5	1517.5	1470.1	1414.9	1381.6	1375.2
57.5°	1371.3	1384.1	1436.7	1490.6	1561.2	1576.5	1556.0	1497.0	1434.2	1390.5	1373.9
60°	1363.6	1368.7	1408.5	1504.7	1544.5	1562.4	1544.5	1498.3	1418.8	1370.0	1370.0
62.5°	1338.0	1346.9	1409.8	1476.5	1532.9	1561.2	1539.3	1481.6	1408.5	1355.9	1339.2
65°	1321.3	1327.7	1389.3	1479.1	1559.9	1590.7	1554.7	1480.3	1393.1	1331.5	1322.6
67.5°	1268.7	1280.2	1338.0	1435.4	1513.7	1538.1	1524.0	1432.9	1338.0	1281.5	1267.4
70°	1178.9	1185.3	1264.8	1357.2	1429.0	1445.7	1425.2	1366.2	1257.1	1194.3	1175.0
72.5°	1068.6	1077.5	1150.7	1253.3	1322.6	1344.4	1320.0	1257.1	1144.2	1087.8	1069.8
75°	957.0	965.9	1013.4	1125.0	1182.7	1213.5	1185.3	1117.3	1016.0	960.8	953.1
77.5°	796.6	810.7	883.8	958.2	1013.4	1045.5	1021.1	958.2	878.7	813.3	788.9
80°	626.0	636.3	704.3	769.7	819.7	840.2	828.7	769.7	705.5	638.8	627.3
82.5°	438.7	445.1	504.1	556.7	618.3	618.3	605.5	567.0	502.9	445.1	447.7
85°	234.8	242.4	287.3	328.4	366.9	366.9	355.3	331.0	286.1	241.2	236.0
87.5°	47.5	52.6	69.3	75.7	89.8	96.2	87.2	79.5	69.3	55.2	55.2
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)