

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: P197645

Luminaire Tested: **TT-C5-LED-E1-MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197645
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-C5-LED-E1-MQ-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7243 lumens
Efficiency: N/A
Efficacy: 94.1 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): 77
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



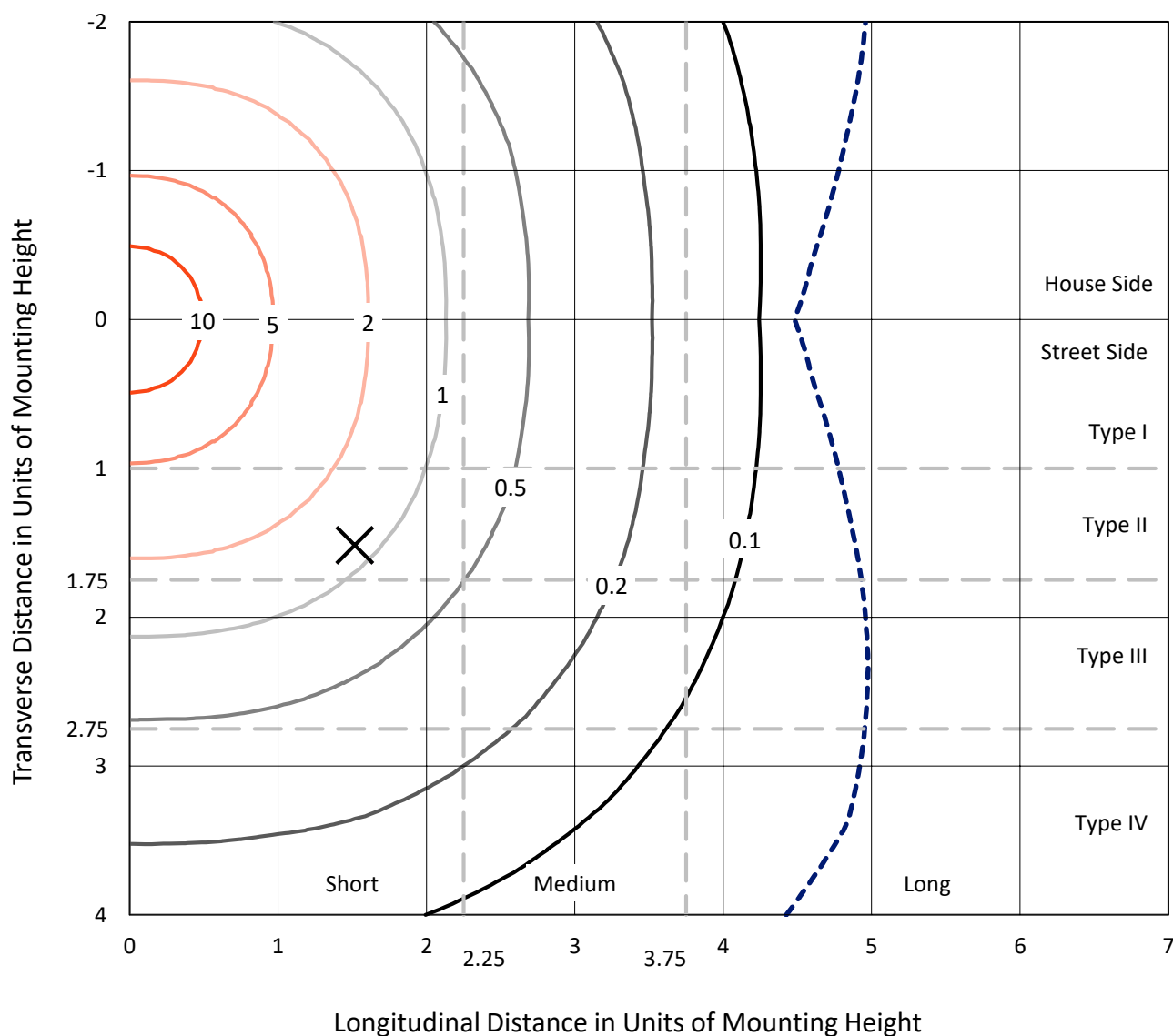
REPORT NUMBER: P197645

CATALOG NUMBER: TT-C5-LED-E1-MQ-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

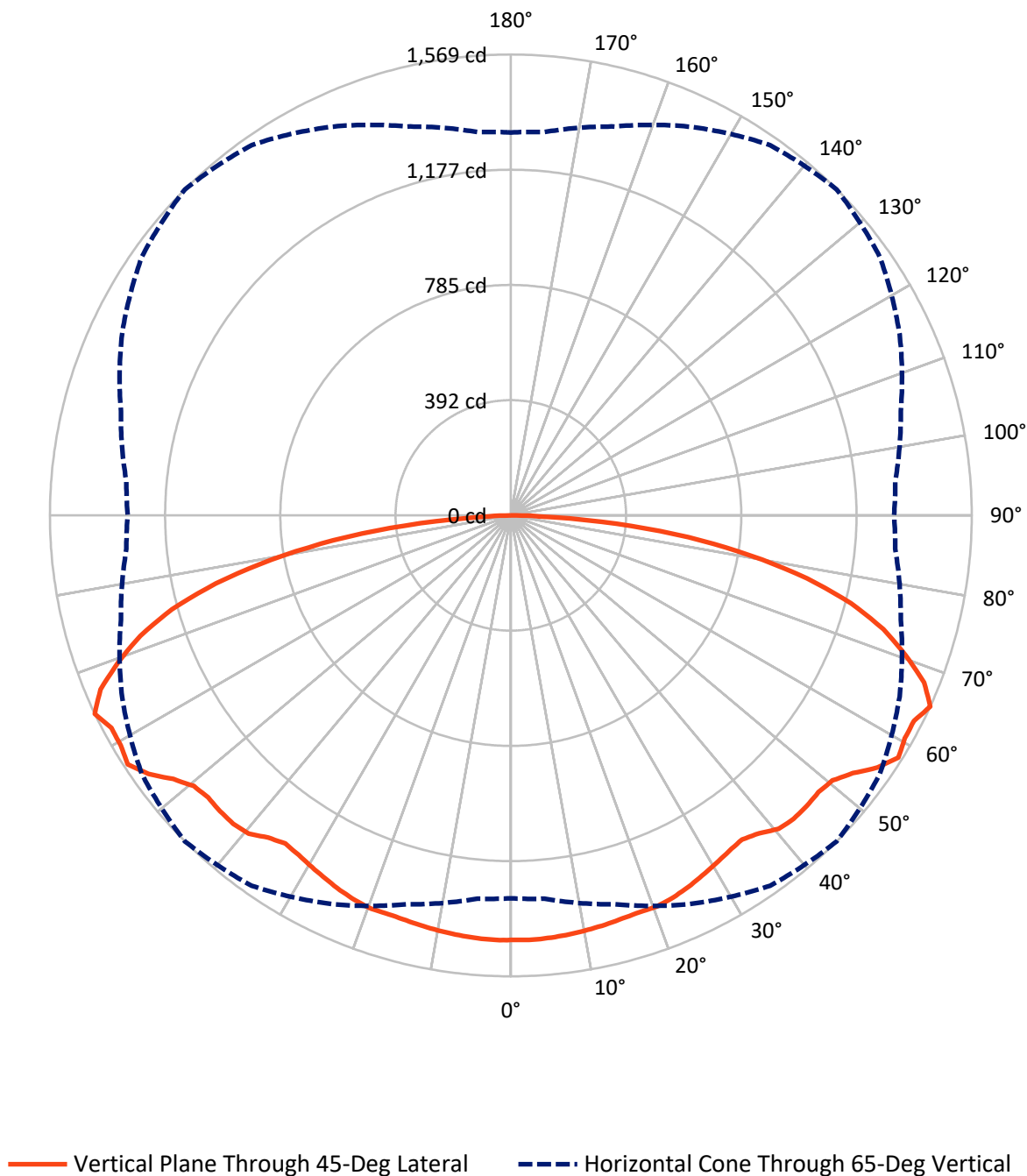


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P197645

CATALOG NUMBER: TT-C5-LED-E1-MQ-8030

Luminous Intensity Polar Plot



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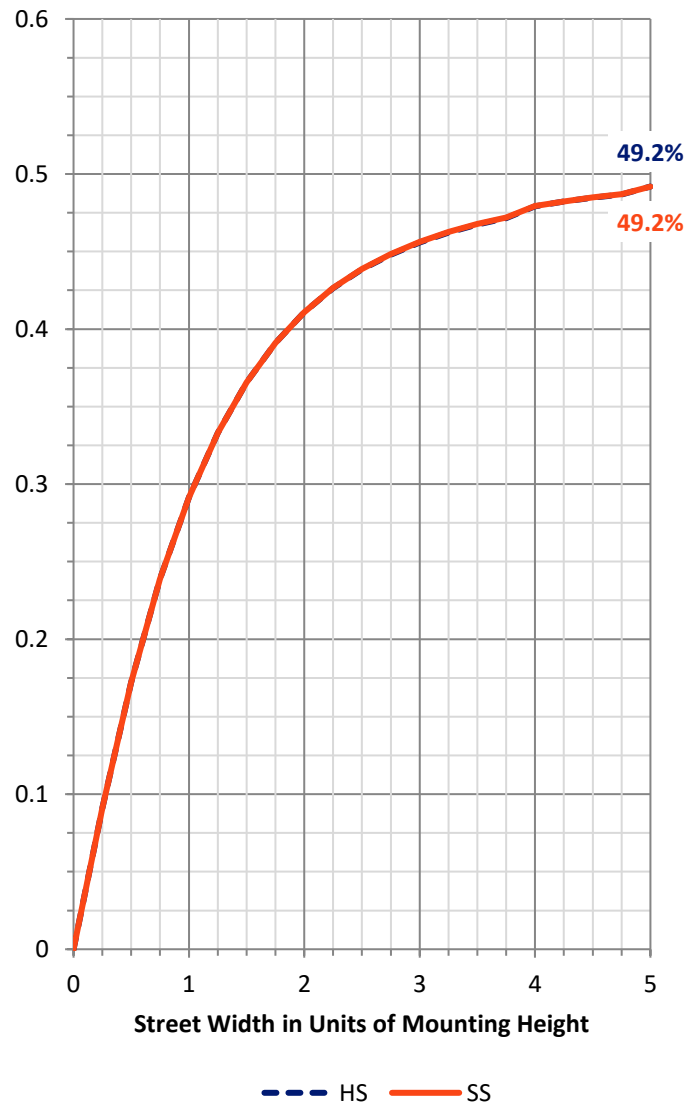
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3621.5	0.0	3621.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3621.5	0.0	3621.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7243.0	0.0	7243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.9
10°-20°	403.4	5.6
20°-30°	645.5	8.9
30°-40°	852.6	11.8
40°-50°	1065.8	14.7
50°-60°	1279.6	17.7
60°-70°	1398.7	19.3
70°-80°	1111.3	15.3
80°-90°	348.5	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°	7243.0	100.0
0°-180°	7243.0	100.0

Coefficient of Utilization



REPORT NUMBER: P197645

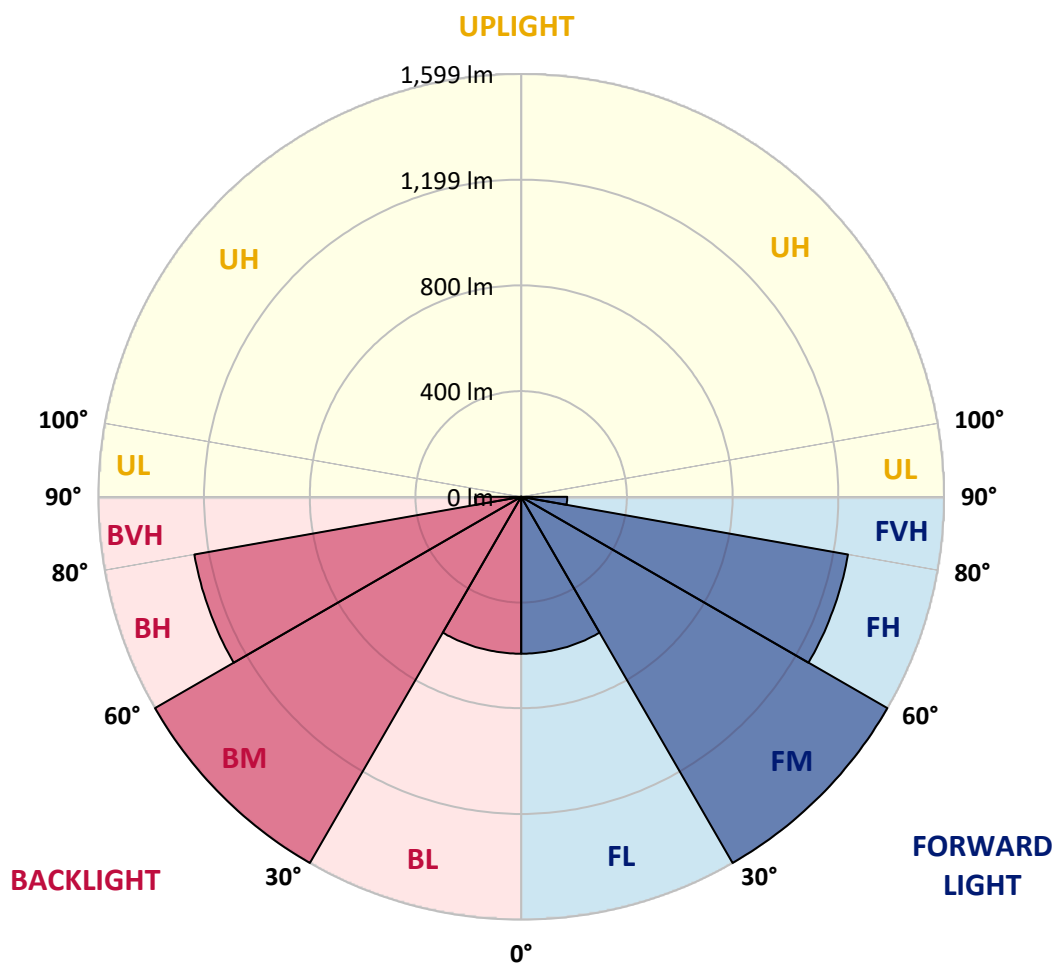
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.2	8.2			
FM	(30°-60°)	1599.0	22.1			
FH	(60°-80°)	1255.0	17.3			G1/1800
FVH	(80°-90°)	174.2	2.4			G2/225
BL	(0°-30°)	593.2	8.2	B2/1000		
BM	(30°-60°)	1599.0	22.1	B2/2500		
BH	(60°-80°)	1255.0	17.3	B3/2500		G1/1800
BVH	(80°-90°)	174.2	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°	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1446.3	1446.3	1446.3	1446.3	1445.1	1446.3	1445.1	1445.1	1446.3	1446.3	1446.3
5°	1443.8	1443.8	1443.8	1443.8	1443.8	1443.8	1443.8	1443.8	1443.8	1443.8	1443.8
7.5°	1440.0	1440.0	1440.0	1440.0	1440.0	1440.0	1440.0	1440.0	1440.0	1440.0	1440.0
10°	1434.9	1436.2	1436.2	1436.2	1434.9	1434.9	1434.9	1436.2	1436.2	1434.9	1434.9
12.5°	1429.9	1429.9	1431.1	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1428.6
15°	1422.3	1422.3	1423.6	1423.6	1423.6	1423.6	1423.6	1422.3	1422.3	1421.0	1421.0
17.5°	1416.0	1416.0	1418.5	1418.5	1419.8	1419.8	1419.8	1417.2	1417.2	1414.7	1414.7
20°	1414.7	1414.7	1416.0	1418.5	1419.8	1421.0	1419.8	1417.2	1414.7	1412.2	1412.2
22.5°	1405.8	1407.1	1409.6	1410.9	1413.4	1413.4	1413.4	1409.6	1408.4	1405.8	1405.8
25°	1394.5	1393.2	1397.0	1399.5	1402.0	1402.0	1400.8	1398.2	1397.0	1393.2	1393.2
27.5°	1376.7	1378.0	1380.5	1384.3	1388.1	1388.1	1386.9	1384.3	1381.8	1379.3	1378.0
30°	1361.6	1362.8	1365.3	1369.1	1371.7	1375.5	1371.7	1369.1	1365.3	1364.1	1362.8
32.5°	1345.1	1346.4	1350.2	1356.5	1360.3	1362.8	1360.3	1357.8	1351.4	1347.6	1346.4
35°	1333.7	1335.0	1338.8	1347.6	1355.2	1355.2	1355.2	1348.9	1341.3	1335.0	1333.7
37.5°	1335.0	1337.5	1346.4	1359.0	1371.7	1372.9	1371.7	1359.0	1347.6	1337.5	1336.2
40°	1345.1	1347.6	1362.8	1381.8	1398.2	1403.3	1399.5	1381.8	1364.1	1350.2	1346.4
42.5°	1343.8	1347.6	1364.1	1388.1	1404.6	1412.2	1404.6	1388.1	1366.6	1351.4	1346.4
45°	1338.8	1341.3	1359.0	1384.3	1404.6	1412.2	1405.8	1386.9	1362.8	1345.1	1341.3
47.5°	1331.2	1333.7	1347.6	1378.0	1400.8	1408.4	1402.0	1381.8	1351.4	1337.5	1335.0
50°	1321.1	1328.7	1351.4	1383.1	1413.4	1418.5	1414.7	1385.6	1354.0	1333.7	1323.6
52.5°	1331.2	1329.9	1356.5	1413.4	1441.3	1457.7	1445.1	1410.9	1362.8	1336.2	1333.7
55°	1354.0	1364.1	1393.2	1446.3	1491.9	1514.7	1496.9	1450.1	1395.7	1362.8	1356.5
57.5°	1352.7	1365.3	1417.2	1470.4	1540.0	1555.2	1534.9	1476.7	1414.7	1371.7	1355.2
60°	1345.1	1350.2	1389.4	1484.3	1523.5	1541.2	1523.5	1478.0	1399.5	1351.4	1351.4
62.5°	1319.8	1328.7	1390.7	1456.5	1512.1	1540.0	1518.5	1461.5	1389.4	1337.5	1321.1
65°	1303.3	1309.7	1370.4	1459.0	1538.7	1569.1	1533.6	1460.3	1374.2	1313.5	1304.6
67.5°	1251.5	1262.9	1319.8	1416.0	1493.2	1517.2	1503.3	1413.4	1319.8	1264.1	1250.2
70°	1162.9	1169.2	1247.7	1338.8	1409.6	1426.1	1405.8	1347.6	1240.1	1178.1	1159.1
72.5°	1054.1	1062.9	1135.0	1236.3	1304.6	1326.1	1302.1	1240.1	1128.7	1073.0	1055.3
75°	944.0	952.8	999.7	1109.7	1166.7	1197.1	1169.2	1102.1	1002.2	947.8	940.2
77.5°	785.8	799.7	871.8	945.2	999.7	1031.3	1007.2	945.2	866.8	802.3	778.2
80°	617.5	627.6	694.7	759.2	808.6	828.8	817.4	759.2	696.0	630.2	618.8
82.5°	432.8	439.1	497.3	549.2	609.9	609.9	597.3	559.3	496.0	439.1	441.6
85°	231.6	239.2	283.4	323.9	361.9	361.9	350.5	326.5	282.2	237.9	232.8
87.5°	46.8	51.9	68.3	74.7	88.6	94.9	86.0	78.5	68.3	54.4	54.4
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)