

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: P197642

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197642
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7412.8 lumens
Efficiency: N/A
Efficacy: 127.8 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

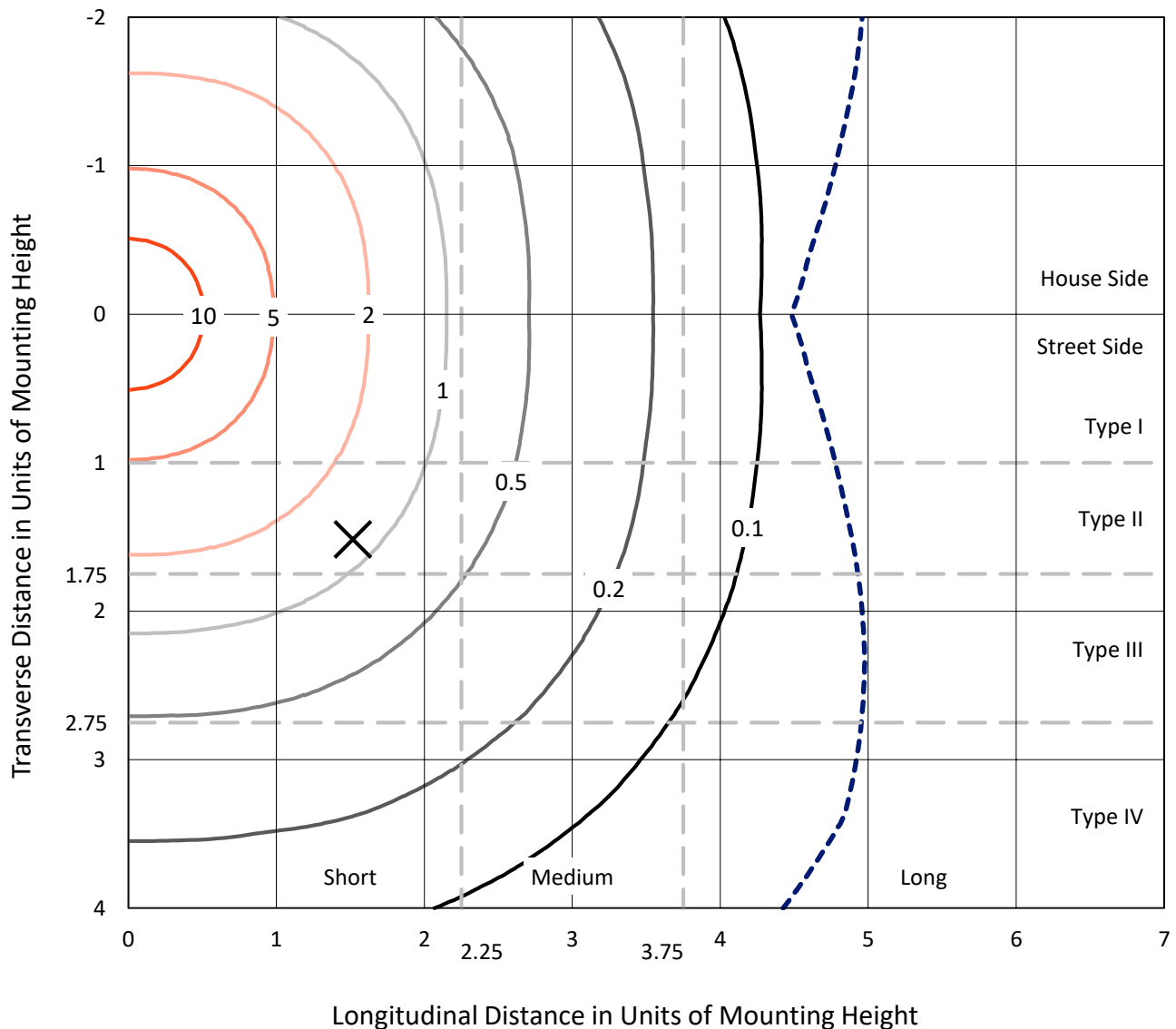


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

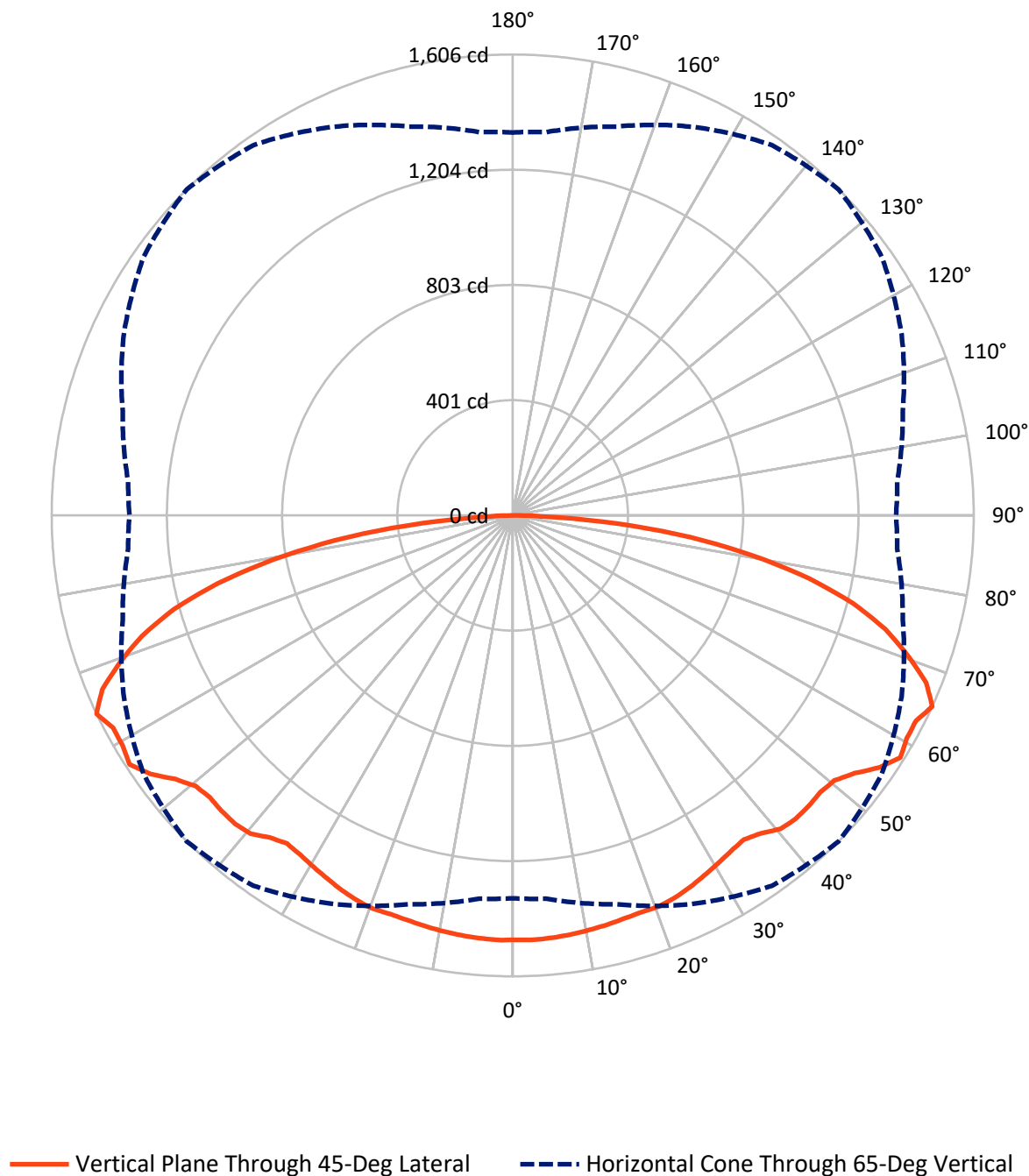


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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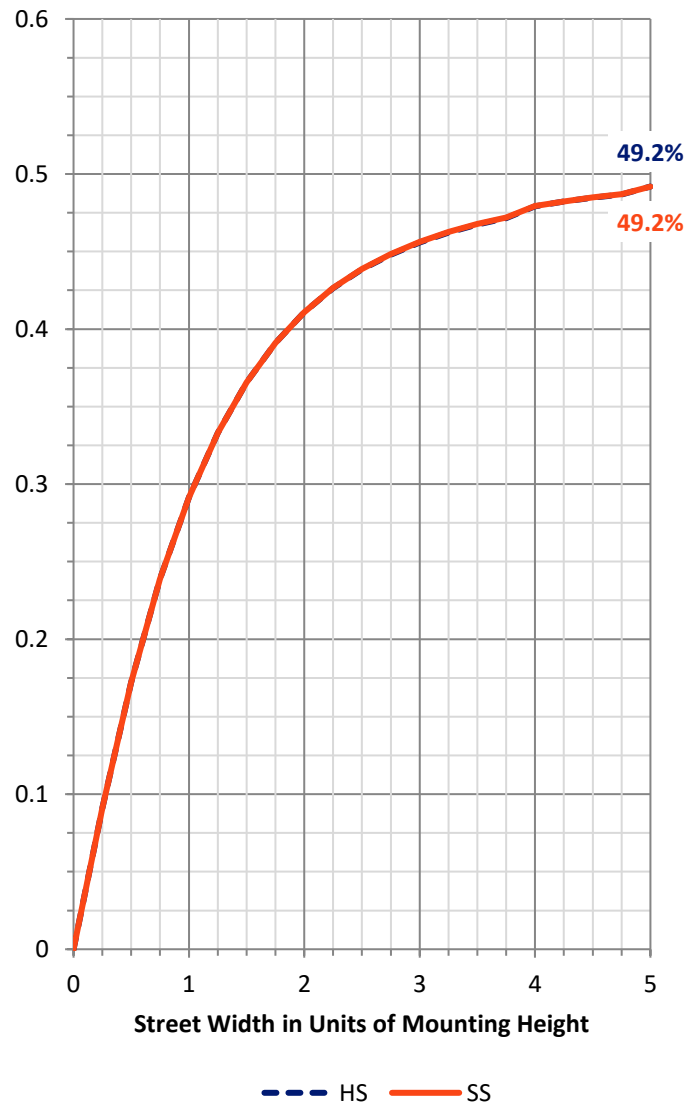
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3706.4	0.0	3706.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3706.4	0.0	3706.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7412.8	0.0	7412.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.9
10°-20°	412.9	5.6
20°-30°	660.7	8.9
30°-40°	872.6	11.8
40°-50°	1090.8	14.7
50°-60°	1309.6	17.7
60°-70°	1431.5	19.3
70°-80°	1137.4	15.3
80°-90°	356.6	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°	7412.8	100.0
0°-180°	7412.8	100.0

Coefficient of Utilization



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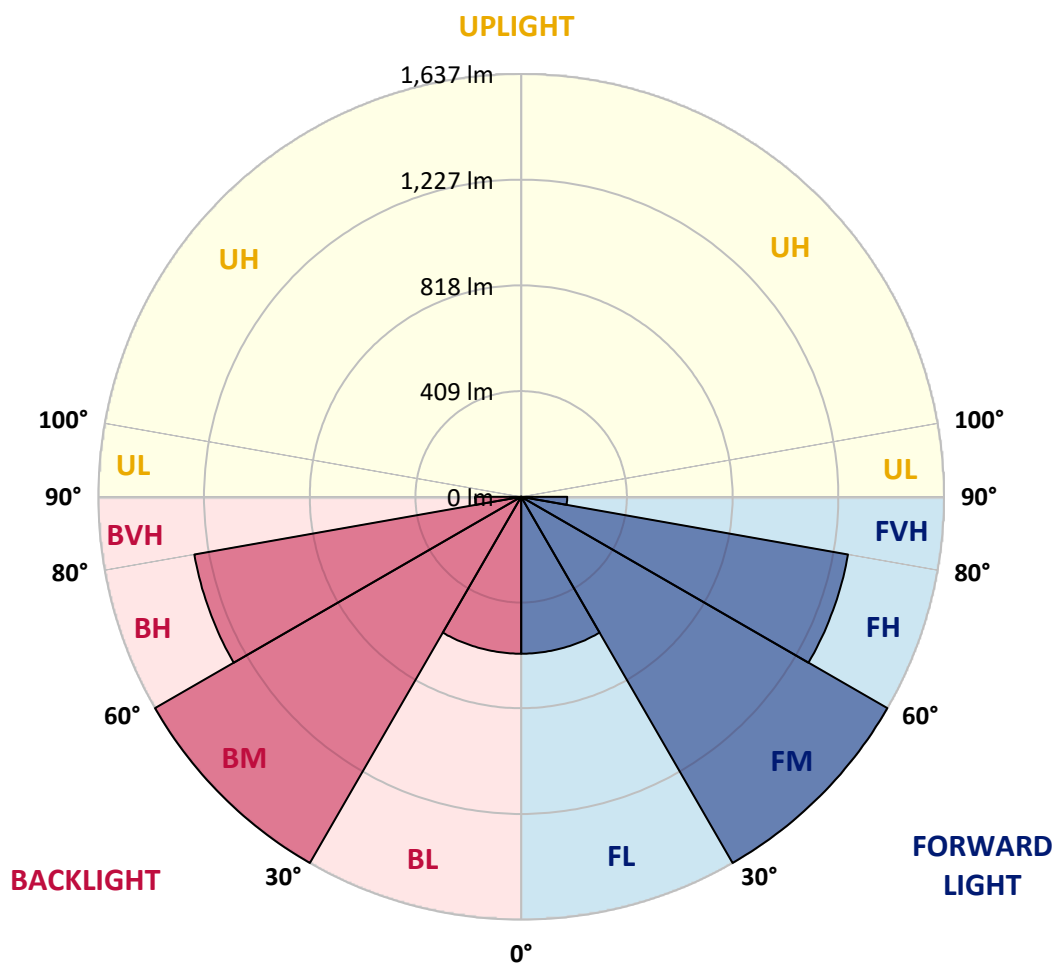
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.2	8.2			
FM	(30°-60°)	1636.5	22.1			
FH	(60°-80°)	1284.4	17.3			G1/1800
FVH	(80°-90°)	178.3	2.4			G2/225
BL	(0°-30°)	607.2	8.2	B2/1000		
BM	(30°-60°)	1636.5	22.1	B2/2500		
BH	(60°-80°)	1284.4	17.3	B3/2500		G1/1800
BVH	(80°-90°)	178.3	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°	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9
2.5°	1480.2	1480.2	1480.2	1480.2	1478.9	1480.2	1478.9	1478.9	1480.2	1480.2	1480.2
5°	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6	1477.6
7.5°	1473.8	1473.8	1473.8	1473.8	1473.8	1473.8	1473.8	1473.8	1473.8	1473.8	1473.8
10°	1468.6	1469.9	1469.9	1469.9	1468.6	1468.6	1468.6	1469.9	1469.9	1468.6	1468.6
12.5°	1463.4	1463.4	1464.7	1463.4	1463.4	1463.4	1463.4	1463.4	1463.4	1463.4	1462.1
15°	1455.6	1455.6	1456.9	1456.9	1456.9	1456.9	1456.9	1455.6	1455.6	1454.3	1454.3
17.5°	1449.2	1449.2	1451.7	1451.7	1453.0	1453.0	1453.0	1450.4	1450.4	1447.9	1447.9
20°	1447.9	1447.9	1449.2	1451.7	1453.0	1454.3	1453.0	1450.4	1447.9	1445.3	1445.3
22.5°	1438.8	1440.1	1442.7	1444.0	1446.6	1446.6	1446.6	1442.7	1441.4	1438.8	1438.8
25°	1427.1	1425.8	1429.7	1432.3	1434.9	1434.9	1433.6	1431.0	1429.7	1425.8	1425.8
27.5°	1409.0	1410.3	1412.9	1416.8	1420.7	1420.7	1419.4	1416.8	1414.2	1411.6	1410.3
30°	1393.5	1394.8	1397.4	1401.2	1403.8	1407.7	1403.8	1401.2	1397.4	1396.1	1394.8
32.5°	1376.6	1377.9	1381.8	1388.3	1392.2	1394.8	1392.2	1389.6	1383.1	1379.2	1377.9
35°	1365.0	1366.3	1370.2	1379.2	1387.0	1387.0	1387.0	1380.5	1372.7	1366.3	1365.0
37.5°	1366.3	1368.9	1377.9	1390.9	1403.8	1405.1	1403.8	1390.9	1379.2	1368.9	1367.6
40°	1376.6	1379.2	1394.8	1414.2	1431.0	1436.2	1432.3	1414.2	1396.1	1381.8	1377.9
42.5°	1375.3	1379.2	1396.1	1420.7	1437.5	1445.3	1437.5	1420.7	1398.6	1383.1	1377.9
45°	1370.2	1372.7	1390.9	1416.8	1437.5	1445.3	1438.8	1419.4	1394.8	1376.6	1372.7
47.5°	1362.4	1365.0	1379.2	1410.3	1433.6	1441.4	1434.9	1414.2	1383.1	1368.9	1366.3
50°	1352.0	1359.8	1383.1	1415.5	1446.6	1451.7	1447.9	1418.1	1385.7	1365.0	1354.6
52.5°	1362.4	1361.1	1388.3	1446.6	1475.1	1491.9	1478.9	1444.0	1394.8	1367.6	1365.0
55°	1385.7	1396.1	1425.8	1480.2	1526.9	1550.2	1532.0	1484.1	1428.4	1394.8	1388.3
57.5°	1384.4	1397.4	1450.4	1504.8	1576.1	1591.6	1570.9	1511.3	1447.9	1403.8	1387.0
60°	1376.6	1381.8	1422.0	1519.1	1559.2	1577.4	1559.2	1512.6	1432.3	1383.1	1383.1
62.5°	1350.7	1359.8	1423.3	1490.6	1547.6	1576.1	1554.1	1495.8	1422.0	1368.9	1352.0
65°	1333.9	1340.4	1402.5	1493.2	1574.8	1605.9	1569.6	1494.5	1406.4	1344.3	1335.2
67.5°	1280.8	1292.5	1350.7	1449.2	1528.2	1552.8	1538.5	1446.6	1350.7	1293.7	1279.5
70°	1190.1	1196.6	1276.9	1370.2	1442.7	1459.5	1438.8	1379.2	1269.1	1205.7	1186.3
72.5°	1078.8	1087.8	1161.7	1265.3	1335.2	1357.2	1332.6	1269.1	1155.2	1098.2	1080.1
75°	966.1	975.2	1023.1	1135.8	1194.0	1225.1	1196.6	1128.0	1025.7	970.0	962.2
77.5°	804.2	818.5	892.3	967.4	1023.1	1055.5	1030.9	967.4	887.1	821.1	796.5
80°	632.0	642.3	711.0	777.0	827.5	848.3	836.6	777.0	712.3	644.9	633.3
82.5°	442.9	449.4	509.0	562.0	624.2	624.2	611.3	572.4	507.7	449.4	452.0
85°	237.0	244.8	290.1	331.5	370.4	370.4	358.7	334.1	288.8	243.5	238.3
87.5°	47.9	53.1	69.9	76.4	90.7	97.1	88.1	80.3	69.9	55.7	55.7
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)