

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: P197644

Luminaire Tested: **TT-C4-LED-E1-MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197644
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7287.2 lumens
Efficiency: N/A
Efficacy: 125.6 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



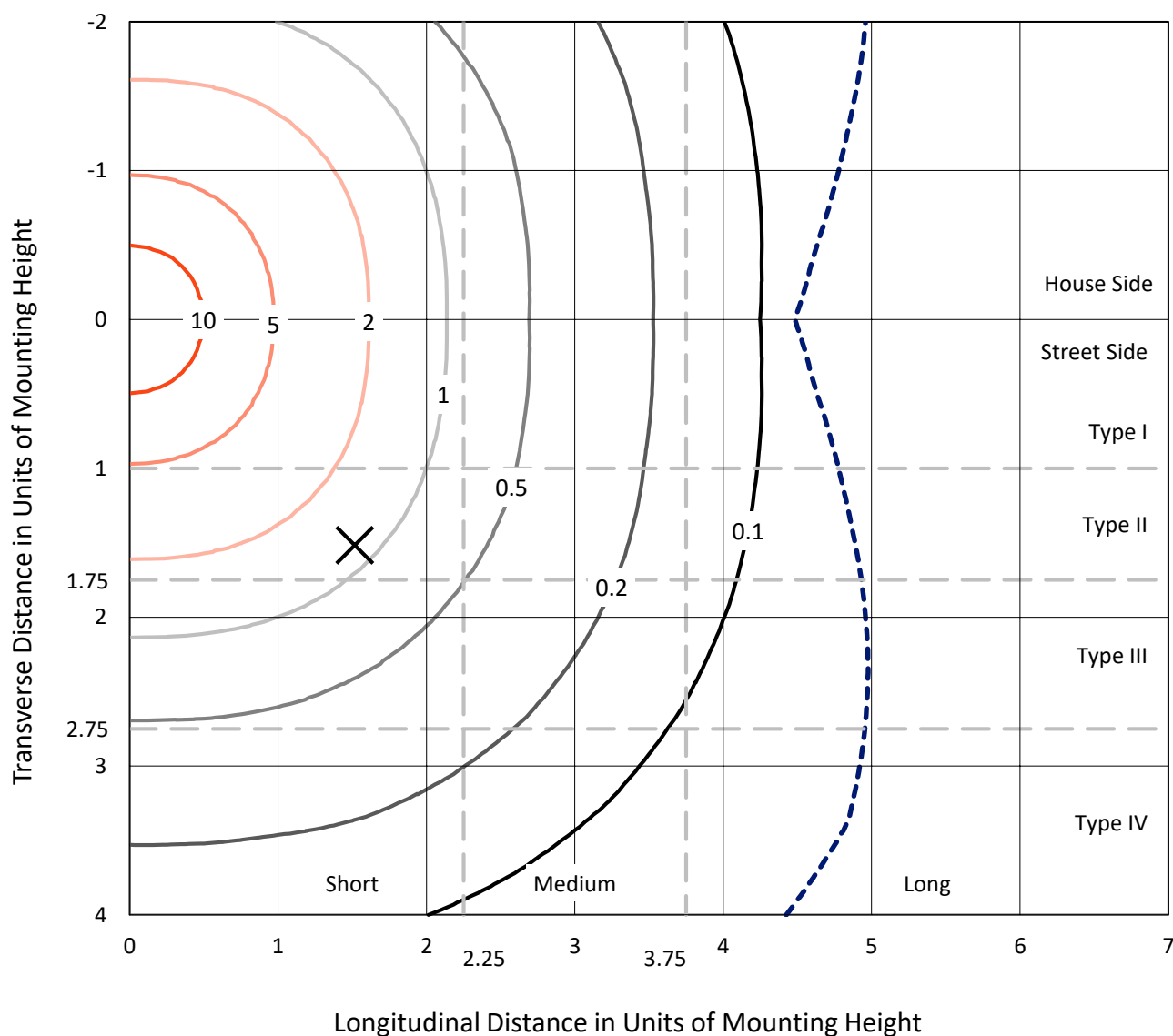
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

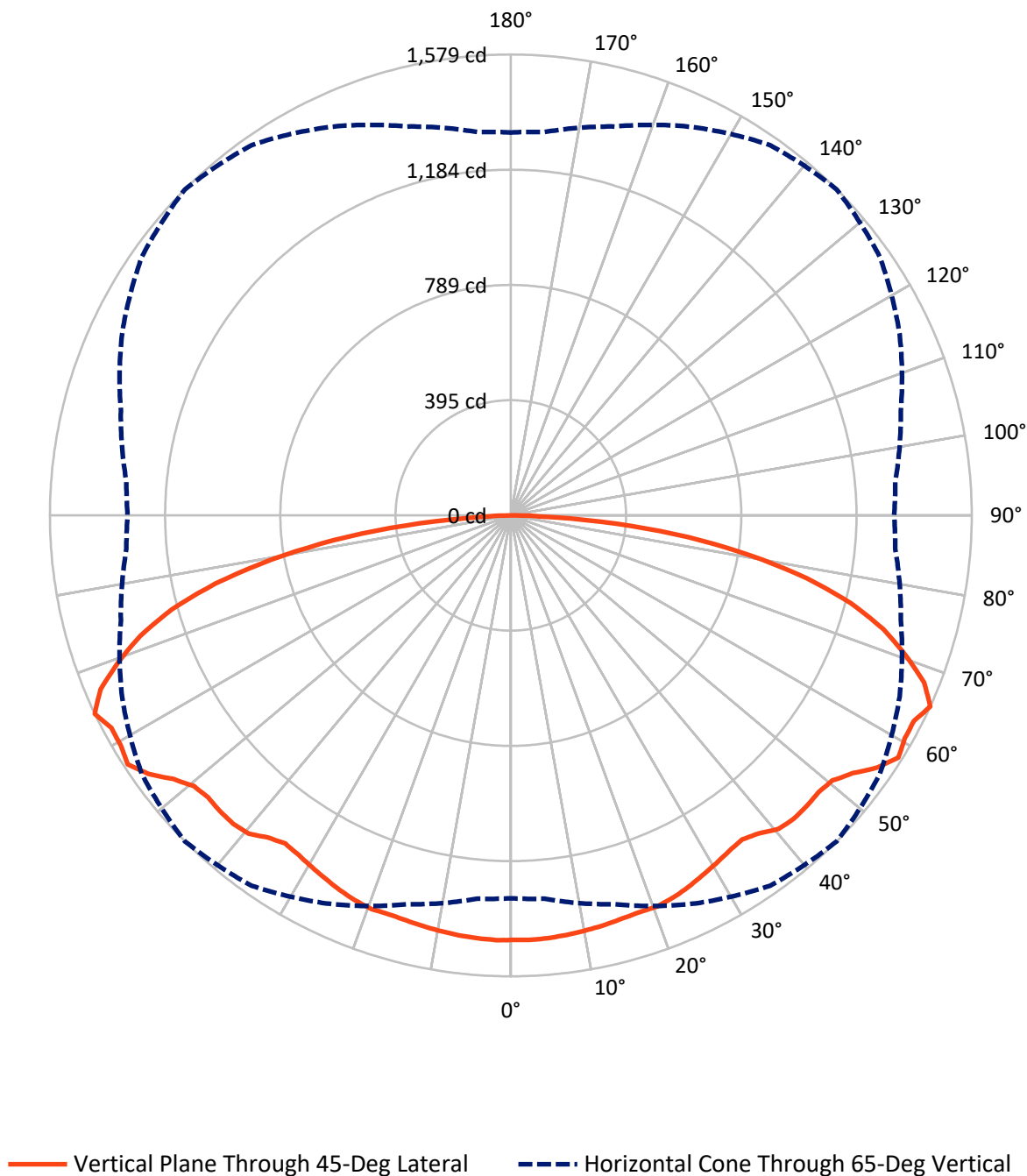


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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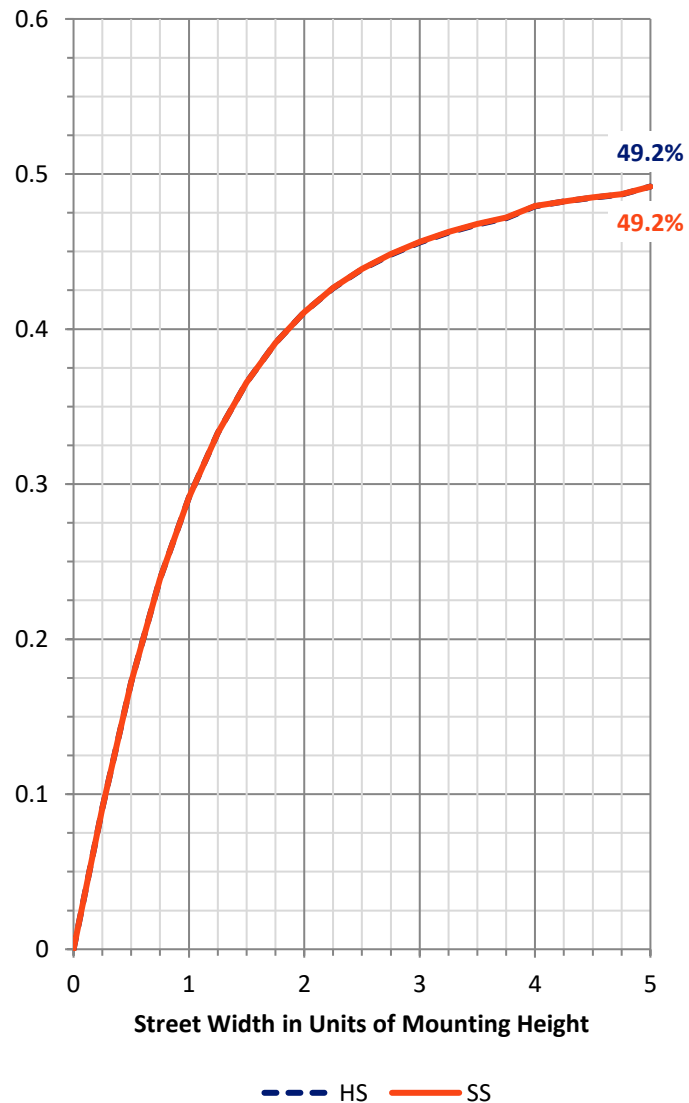
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3643.6	0.0	3643.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3643.6	0.0	3643.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7287.2	0.0	7287.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.9
10°-20°	405.9	5.6
20°-30°	649.5	8.9
30°-40°	857.8	11.8
40°-50°	1072.3	14.7
50°-60°	1287.4	17.7
60°-70°	1407.2	19.3
70°-80°	1118.1	15.3
80°-90°	350.6	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°	7287.2	100.0
0°-180°	7287.2	100.0

Coefficient of Utilization



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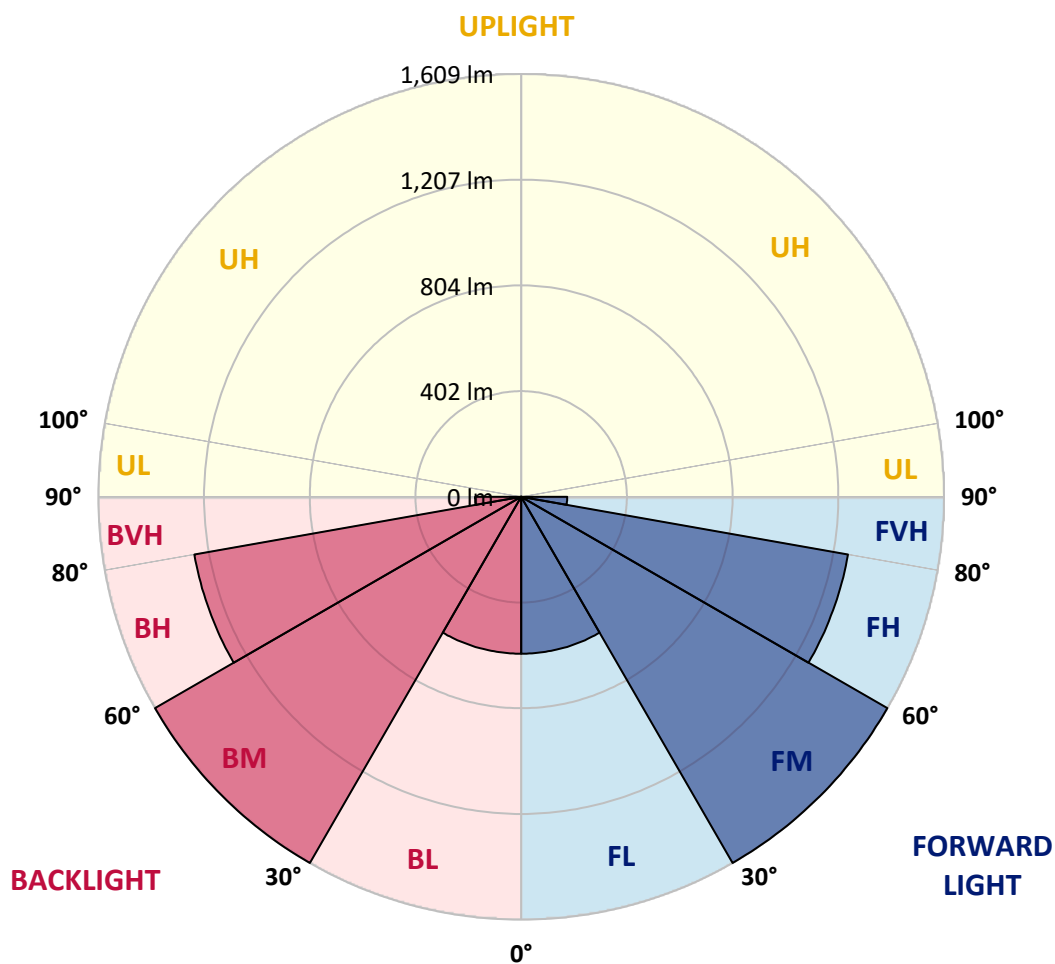
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	596.9	8.2			
FM	(30°-60°)	1608.8	22.1			
FH	(60°-80°)	1262.7	17.3			G1/1800
FVH	(80°-90°)	175.3	2.4			G2/225
BL	(0°-30°)	596.9	8.2	B2/1000		
BM	(30°-60°)	1608.8	22.1	B2/2500		
BH	(60°-80°)	1262.7	17.3	B3/2500		G1/1800
BVH	(80°-90°)	175.3	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°	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9
2.5°	1455.2	1455.2	1455.2	1455.2	1453.9	1455.2	1453.9	1453.9	1455.2	1455.2	1455.2
5°	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6	1452.6
7.5°	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8
10°	1443.7	1445.0	1445.0	1445.0	1443.7	1443.7	1443.7	1445.0	1445.0	1443.7	1443.7
12.5°	1438.6	1438.6	1439.9	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1438.6	1437.3
15°	1431.0	1431.0	1432.2	1432.2	1432.2	1432.2	1432.2	1431.0	1431.0	1429.7	1429.7
17.5°	1424.6	1424.6	1427.1	1427.1	1428.4	1428.4	1428.4	1425.9	1425.9	1423.3	1423.3
20°	1423.3	1423.3	1424.6	1427.1	1428.4	1429.7	1428.4	1425.9	1423.3	1420.8	1420.8
22.5°	1414.4	1415.7	1418.2	1419.5	1422.1	1422.1	1422.1	1418.2	1417.0	1414.4	1414.4
25°	1403.0	1401.7	1405.5	1408.1	1410.6	1410.6	1409.3	1406.8	1405.5	1401.7	1401.7
27.5°	1385.1	1386.4	1389.0	1392.8	1396.6	1396.6	1395.3	1392.8	1390.2	1387.7	1386.4
30°	1369.9	1371.1	1373.7	1377.5	1380.0	1383.9	1380.0	1377.5	1373.7	1372.4	1371.1
32.5°	1353.3	1354.6	1358.4	1364.8	1368.6	1371.1	1368.6	1366.0	1359.7	1355.9	1354.6
35°	1341.9	1343.1	1346.9	1355.9	1363.5	1363.5	1363.5	1357.1	1349.5	1343.1	1341.9
37.5°	1343.1	1345.7	1354.6	1367.3	1380.0	1381.3	1380.0	1367.3	1355.9	1345.7	1344.4
40°	1353.3	1355.9	1371.1	1390.2	1406.8	1411.9	1408.1	1390.2	1372.4	1358.4	1354.6
42.5°	1352.0	1355.9	1372.4	1396.6	1413.1	1420.8	1413.1	1396.6	1375.0	1359.7	1354.6
45°	1346.9	1349.5	1367.3	1392.8	1413.1	1420.8	1414.4	1395.3	1371.1	1353.3	1349.5
47.5°	1339.3	1341.9	1355.9	1386.4	1409.3	1417.0	1410.6	1390.2	1359.7	1345.7	1343.1
50°	1329.1	1336.8	1359.7	1391.5	1422.1	1427.1	1423.3	1394.0	1362.2	1341.9	1331.7
52.5°	1339.3	1338.0	1364.8	1422.1	1450.1	1466.6	1453.9	1419.5	1371.1	1344.4	1341.9
55°	1362.2	1372.4	1401.7	1455.2	1501.0	1523.9	1506.1	1459.0	1404.2	1371.1	1364.8
57.5°	1360.9	1373.7	1425.9	1479.3	1549.4	1564.6	1544.3	1485.7	1423.3	1380.0	1363.5
60°	1353.3	1358.4	1397.9	1493.4	1532.8	1550.6	1532.8	1487.0	1408.1	1359.7	1359.7
62.5°	1327.8	1336.8	1399.1	1465.3	1521.4	1549.4	1527.7	1470.4	1397.9	1345.7	1329.1
65°	1311.3	1317.7	1378.8	1467.9	1548.1	1578.6	1543.0	1469.2	1382.6	1321.5	1312.6
67.5°	1259.1	1270.6	1327.8	1424.6	1502.3	1526.5	1512.4	1422.1	1327.8	1271.8	1257.8
70°	1170.0	1176.3	1255.3	1346.9	1418.2	1434.8	1414.4	1355.9	1247.6	1185.3	1166.2
72.5°	1060.5	1069.4	1142.0	1243.8	1312.6	1334.2	1310.0	1247.6	1135.6	1079.6	1061.8
75°	949.7	958.6	1005.8	1116.5	1173.8	1204.4	1176.3	1108.9	1008.3	953.6	945.9
77.5°	790.6	804.6	877.2	951.0	1005.8	1037.6	1013.4	951.0	872.1	807.1	783.0
80°	621.3	631.5	698.9	763.9	813.5	833.9	822.4	763.9	700.2	634.0	622.5
82.5°	435.4	441.8	500.3	552.5	613.6	613.6	600.9	562.7	499.1	441.8	444.3
85°	233.0	240.6	285.2	325.9	364.1	364.1	352.6	328.5	283.9	239.3	234.3
87.5°	47.1	52.2	68.7	75.1	89.1	95.5	86.6	78.9	68.7	54.7	54.7
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)