

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: P821220

Luminaire Tested: **TT-D3-735-24VDC-CQ**

Issue Date: 5/19/2020



Test Information

Test Method: LM-79-08
Report Number: P821220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-735-24VDC-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

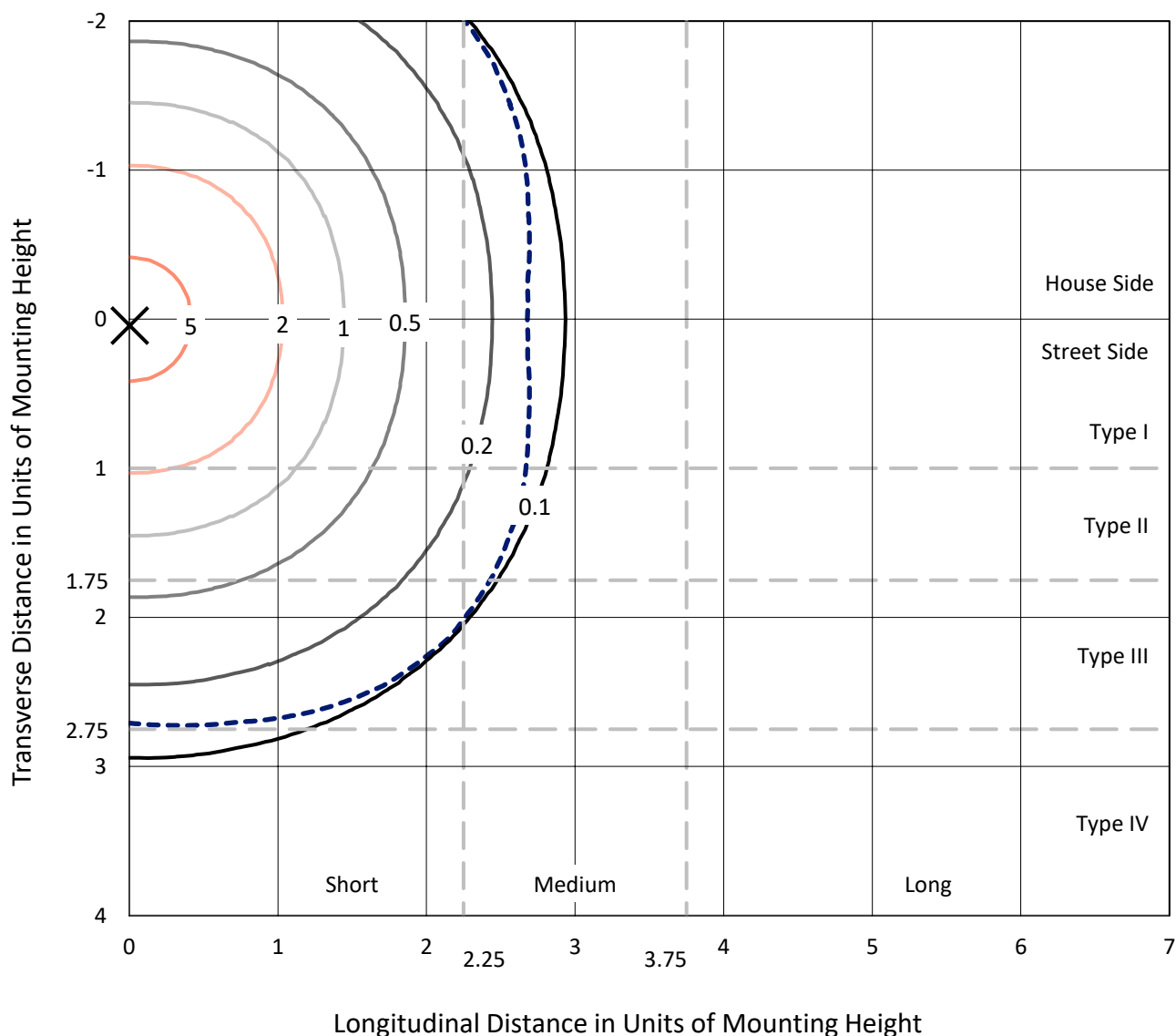
Lumens per Lamp: N/A
Luminaire Lumens: 5940 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 46
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

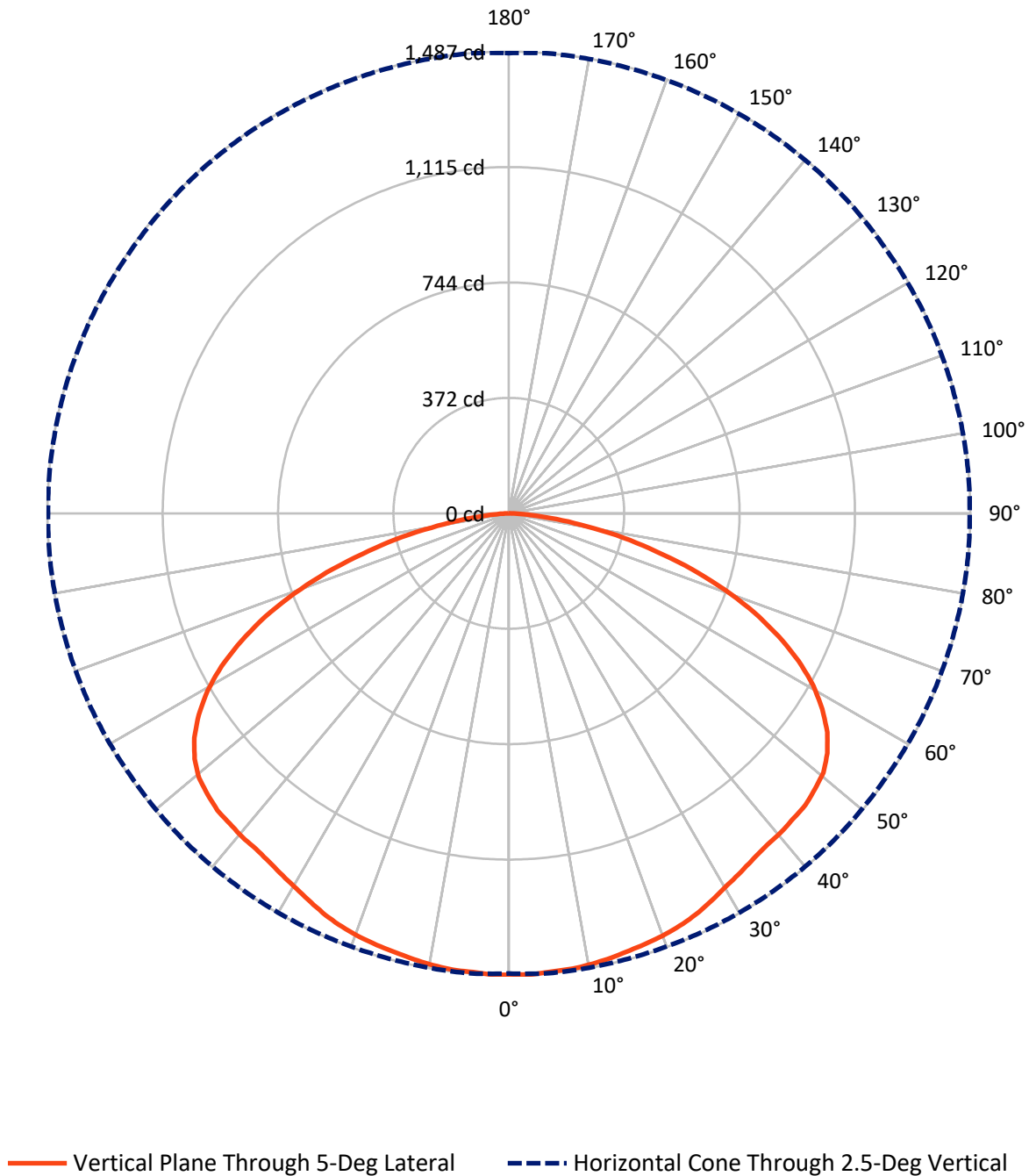
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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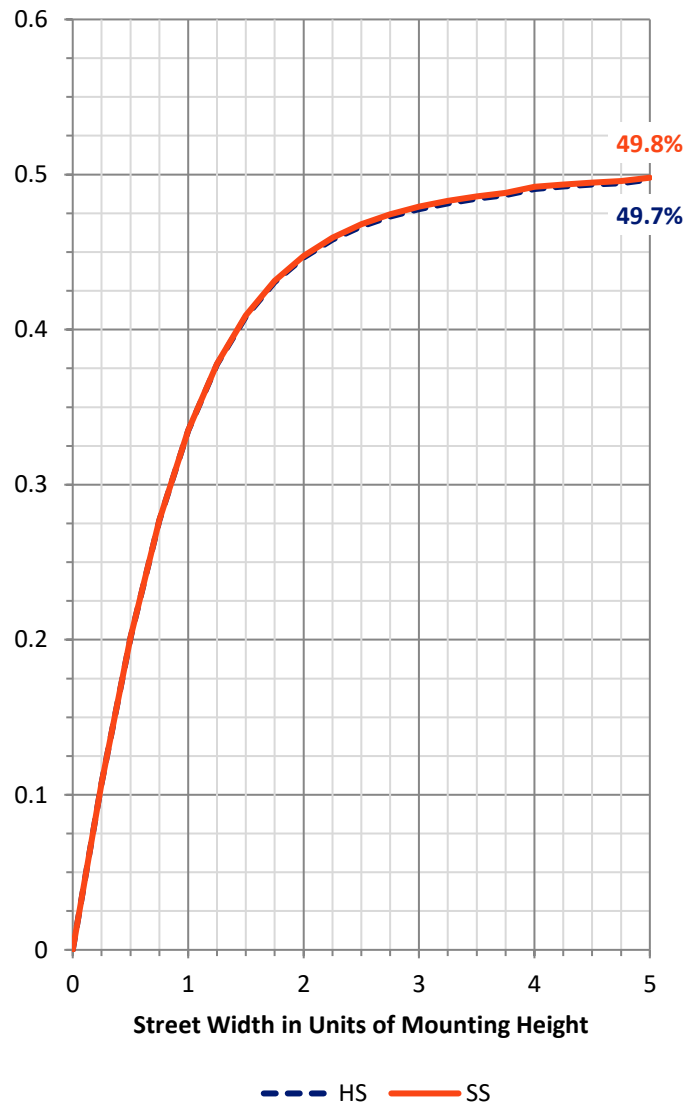
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.0	0.0	2970.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2970.0	0.0	2970.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5940.0	0.0	5940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	2.4
10°-20°	413.9	7.0
20°-30°	658.2	11.1
30°-40°	865.9	14.6
40°-50°	1059.8	17.8
50°-60°	1147.9	19.3
60°-70°	987.6	16.6
70°-80°	555.2	9.3
80°-90°	110.1	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°	5940.0	100.0
0°-180°	5940.0	100.0

Coefficient of Utilization



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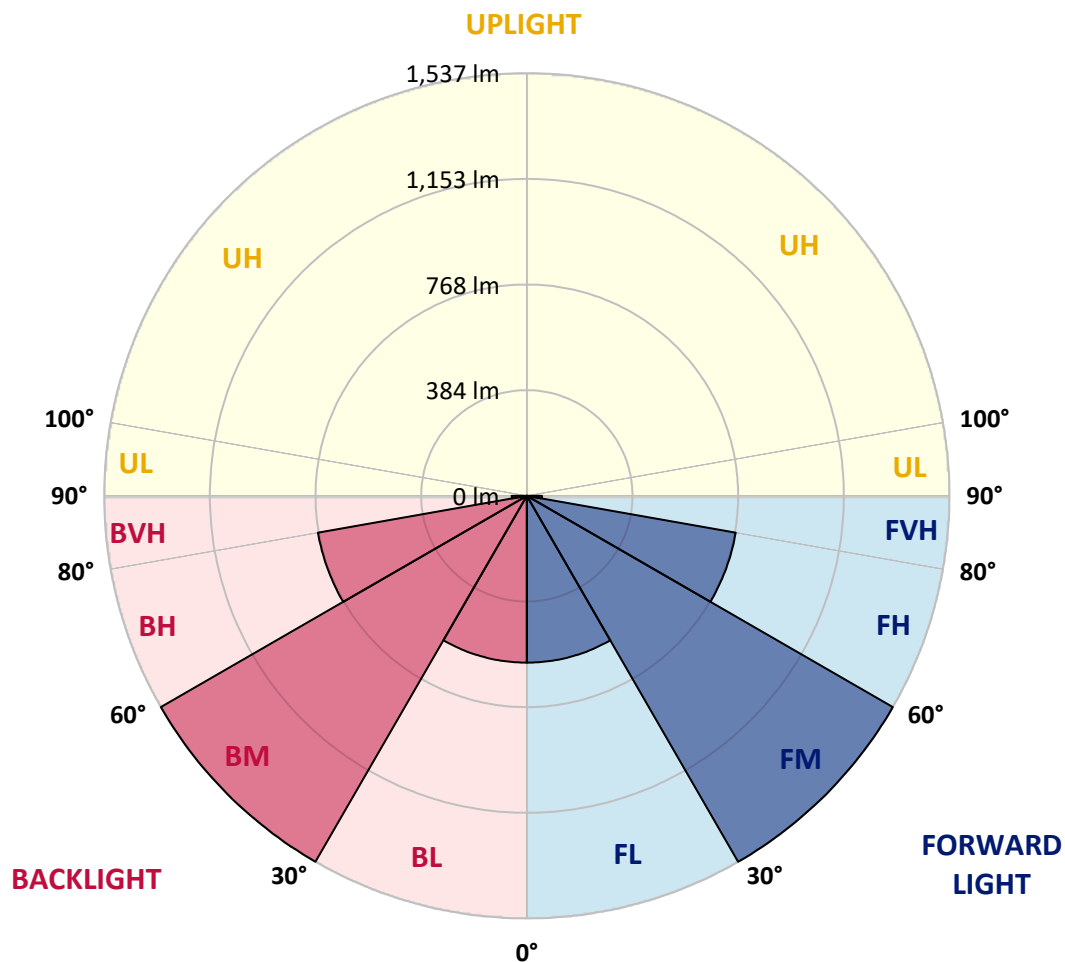
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.7	10.2			
FM	(30°-60°)	1536.8	25.9			
FH	(60°-80°)	771.4	13.0			G1/1800
FVH	(80°-90°)	55.0	0.9			G1/100
BL	(0°-30°)	606.7	10.2	B2/1000		
BM	(30°-60°)	1536.8	25.9	B2/2500		
BH	(60°-80°)	771.4	13.0	B2/1000		G1/1800
BVH	(80°-90°)	55.0	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°	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
2.5°	1482.2	1487.0	1485.1	1485.1	1485.1	1485.1	1483.2	1485.1	1485.1	1486.0	1485.1
5°	1483.2	1482.2	1482.2	1483.2	1483.2	1484.1	1482.2	1483.2	1484.1	1484.1	1485.1
7.5°	1480.3	1481.3	1479.4	1481.3	1479.4	1480.3	1480.3	1481.3	1480.3	1481.3	1483.2
10°	1474.7	1475.6	1474.7	1474.7	1474.7	1476.6	1472.8	1475.6	1474.7	1475.6	1474.7
12.5°	1464.3	1469.0	1467.1	1469.0	1469.0	1469.0	1466.2	1468.1	1469.0	1469.0	1469.0
15°	1459.5	1460.5	1457.7	1461.4	1462.4	1463.3	1459.5	1461.4	1461.4	1462.4	1463.3
17.5°	1449.1	1453.9	1452.9	1455.8	1454.8	1457.7	1456.7	1455.8	1454.8	1456.7	1454.8
20°	1441.6	1446.3	1445.4	1448.2	1449.1	1452.0	1449.1	1449.1	1446.3	1447.3	1450.1
22.5°	1434.0	1435.9	1435.9	1438.7	1438.7	1441.6	1438.7	1437.8	1437.8	1436.9	1439.7
25°	1421.7	1422.7	1421.7	1424.6	1426.5	1428.4	1427.4	1425.5	1424.6	1424.6	1423.6
27.5°	1401.9	1405.7	1407.6	1411.3	1412.3	1415.1	1411.3	1411.3	1409.4	1407.6	1408.5
30°	1386.8	1388.6	1388.6	1397.2	1397.2	1401.9	1397.2	1396.2	1395.3	1394.3	1392.4
32.5°	1372.6	1375.4	1378.2	1384.9	1389.6	1391.5	1388.6	1386.8	1382.0	1379.2	1378.2
35°	1361.2	1362.2	1367.9	1377.3	1383.0	1387.7	1383.9	1379.2	1372.6	1367.9	1371.6
37.5°	1352.7	1353.7	1362.2	1374.5	1384.9	1388.6	1383.0	1375.4	1365.0	1359.3	1357.5
40°	1345.2	1350.8	1360.3	1377.3	1388.6	1394.3	1389.6	1379.2	1364.1	1352.7	1351.8
42.5°	1341.4	1344.2	1358.4	1378.2	1394.3	1401.9	1395.3	1381.1	1362.2	1348.9	1348.0
45°	1331.9	1340.4	1353.7	1379.2	1397.2	1406.6	1397.2	1379.2	1356.5	1341.4	1338.5
47.5°	1324.4	1327.2	1348.0	1377.3	1399.0	1406.6	1397.2	1374.5	1346.1	1326.3	1324.4
50°	1306.4	1313.0	1333.8	1365.0	1390.5	1398.1	1386.8	1356.5	1324.4	1302.6	1298.8
52.5°	1279.0	1284.7	1309.2	1348.0	1372.6	1381.1	1364.1	1331.9	1294.1	1267.6	1267.6
55°	1236.5	1245.0	1270.5	1310.2	1341.4	1348.9	1329.1	1295.1	1252.5	1226.1	1225.1
57.5°	1185.4	1191.1	1218.5	1262.0	1292.2	1303.6	1283.7	1245.9	1203.4	1172.2	1169.3
60°	1119.2	1126.8	1156.1	1197.7	1228.9	1238.3	1221.3	1183.5	1140.0	1106.9	1106.9
62.5°	1039.8	1048.3	1077.6	1120.2	1152.3	1166.5	1142.9	1106.9	1061.6	1029.4	1026.6
65°	947.2	954.8	981.2	1025.7	1058.7	1069.1	1051.2	1013.4	969.9	939.6	936.8
67.5°	843.2	853.6	880.1	917.9	946.2	959.5	948.1	914.1	868.7	837.5	834.7
70°	730.7	738.3	759.1	794.1	826.2	835.6	818.6	795.9	753.4	725.0	721.3
72.5°	610.7	617.3	634.3	667.4	690.1	702.4	692.9	663.6	629.6	605.9	609.7
75°	489.7	488.7	507.6	531.3	552.1	560.6	553.9	535.0	503.8	484.0	483.0
77.5°	368.7	378.1	384.7	404.6	421.6	428.2	418.8	403.6	380.0	363.9	366.8
80°	259.0	253.3	265.6	277.9	289.3	295.9	290.2	281.7	265.6	253.3	251.5
82.5°	158.8	154.1	159.8	171.1	178.7	180.6	181.5	171.1	164.5	155.0	156.9
85°	70.0	70.9	75.6	83.2	84.1	85.1	85.1	83.2	75.6	74.7	72.8
87.5°	17.0	17.0	18.0	20.8	20.8	21.7	21.7	18.9	18.0	16.1	17.0
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)