

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: P197641

Luminaire Tested: **TT-C4-LED-E1-MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197641
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-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: 5590.5 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - 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



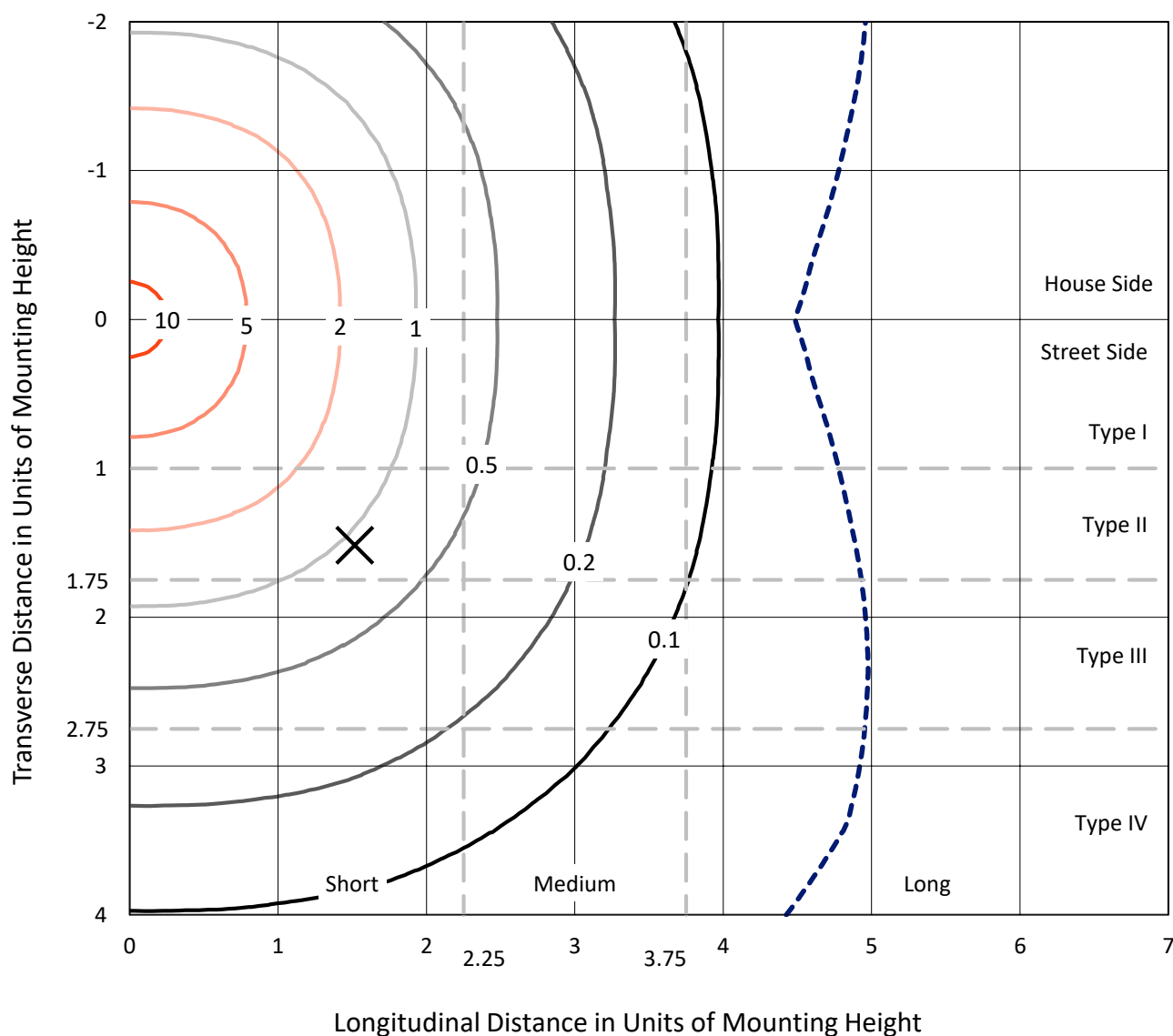
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

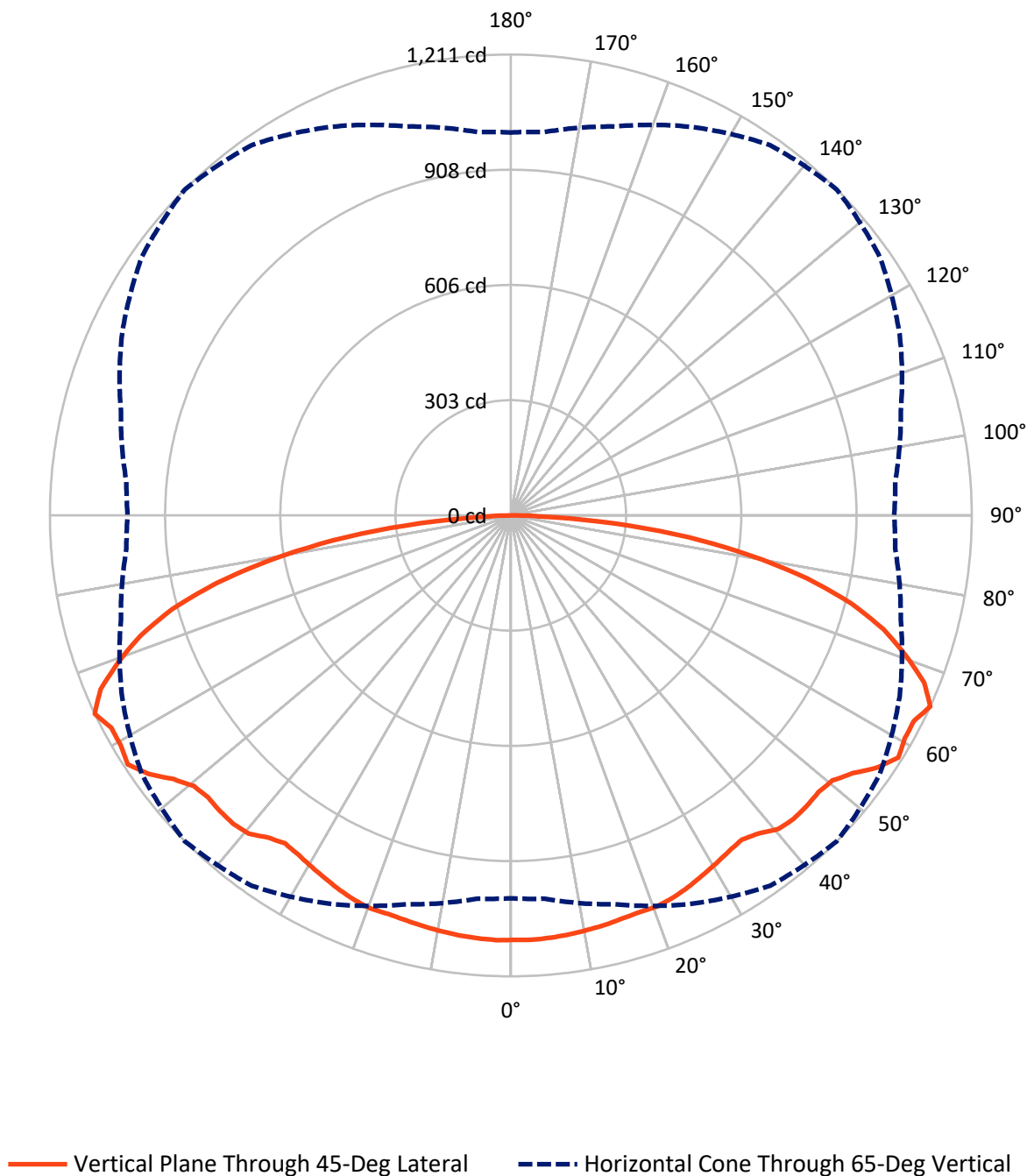


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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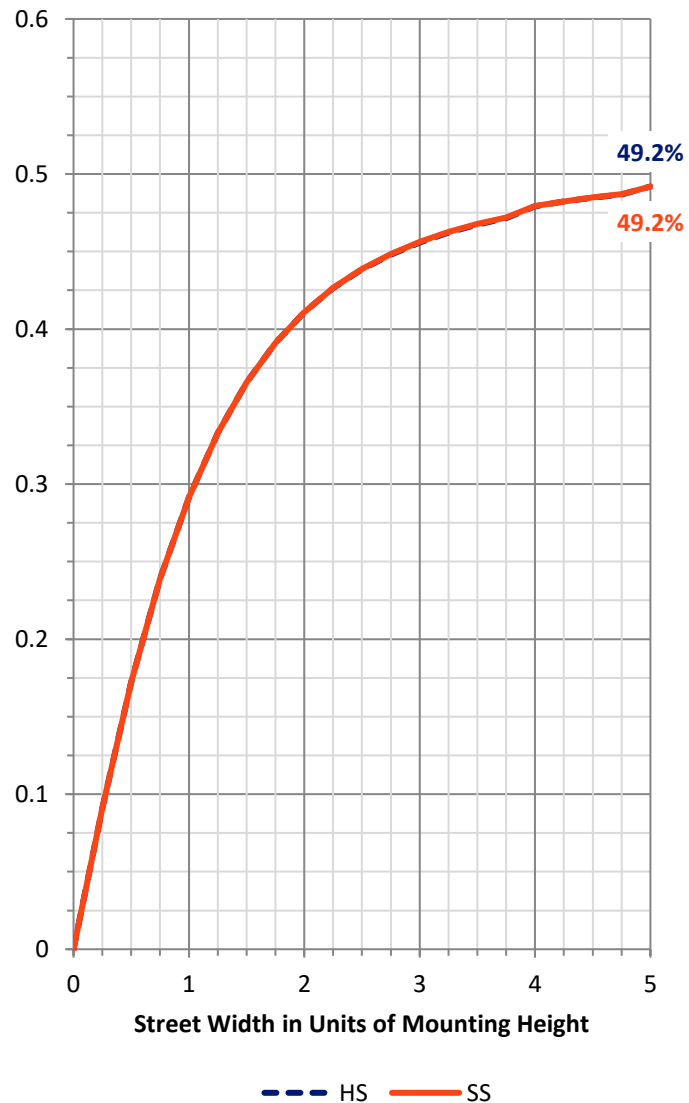
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2795.3	0.0	2795.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2795.3	0.0	2795.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	5590.5	0.0	5590.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.9
10°-20°	311.4	5.6
20°-30°	498.2	8.9
30°-40°	658.1	11.8
40°-50°	822.7	14.7
50°-60°	987.7	17.7
60°-70°	1079.6	19.3
70°-80°	857.8	15.3
80°-90°	269.0	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°	5590.5	100.0
0°-180°	5590.5	100.0

Coefficient of Utilization



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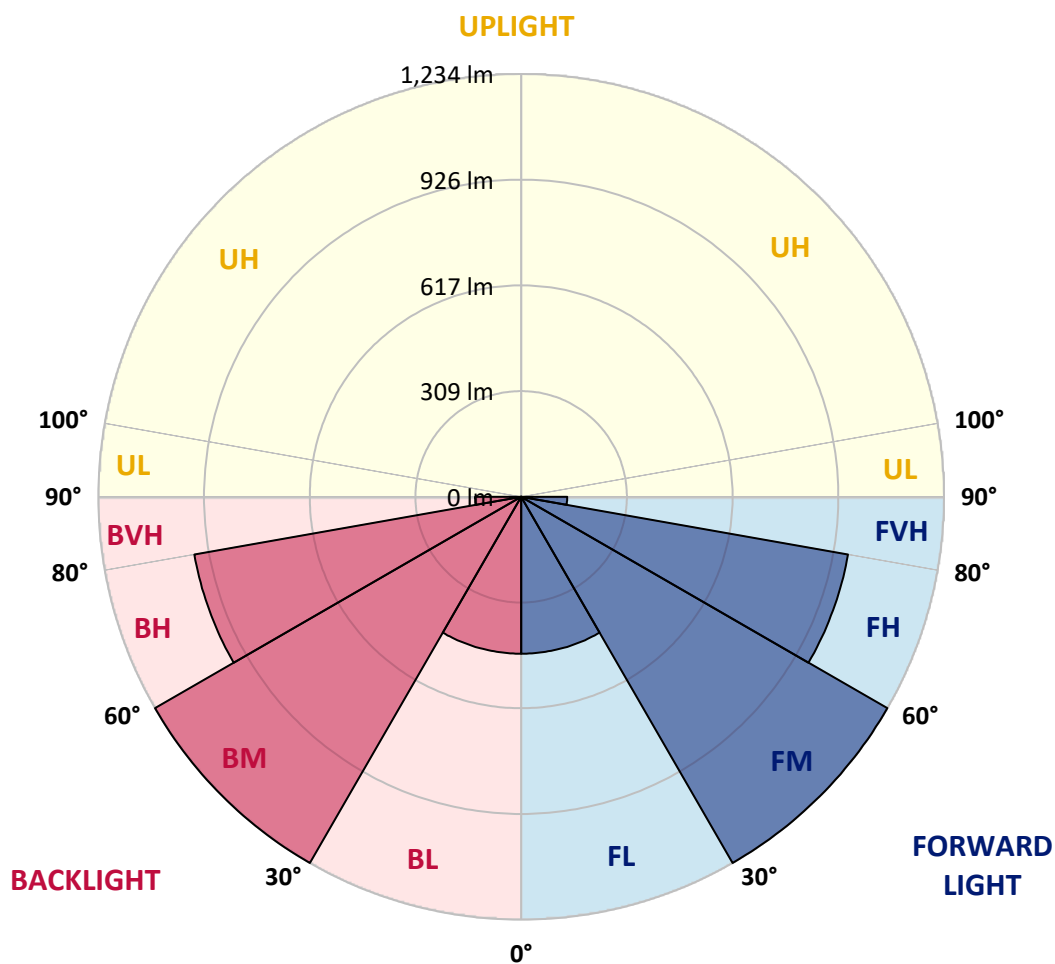
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.9	8.2			
FM	(30°-60°)	1234.2	22.1			
FH	(60°-80°)	968.7	17.3			G1/1800
FVH	(80°-90°)	134.5	2.4			G2/225
BL	(0°-30°)	457.9	8.2	B1/500		
BM	(30°-60°)	1234.2	22.1	B2/2500		
BH	(60°-80°)	968.7	17.3	B2/1000		G1/1800
BVH	(80°-90°)	134.5	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1116.4	1116.4	1116.4	1116.4	1115.4	1116.4	1115.4	1115.4	1116.4	1116.4	1116.4
5°	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4
7.5°	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5	1111.5
10°	1107.6	1108.5	1108.5	1108.5	1107.6	1107.6	1107.6	1108.5	1108.5	1107.6	1107.6
12.5°	1103.7	1103.7	1104.6	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1103.7	1102.7
15°	1097.8	1097.8	1098.8	1098.8	1098.8	1098.8	1098.8	1097.8	1097.8	1096.8	1096.8
17.5°	1092.9	1092.9	1094.9	1094.9	1095.8	1095.8	1095.8	1093.9	1093.9	1091.9	1091.9
20°	1091.9	1091.9	1092.9	1094.9	1095.8	1096.8	1095.8	1093.9	1091.9	1090.0	1090.0
22.5°	1085.1	1086.1	1088.0	1089.0	1091.0	1091.0	1091.0	1088.0	1087.1	1085.1	1085.1
25°	1076.3	1075.3	1078.3	1080.2	1082.2	1082.2	1081.2	1079.2	1078.3	1075.3	1075.3
27.5°	1062.6	1063.6	1065.6	1068.5	1071.4	1071.4	1070.5	1068.5	1066.5	1064.6	1063.6
30°	1050.9	1051.9	1053.9	1056.8	1058.7	1061.7	1058.7	1056.8	1053.9	1052.9	1051.9
32.5°	1038.2	1039.2	1042.1	1047.0	1049.9	1051.9	1049.9	1048.0	1043.1	1040.2	1039.2
35°	1029.4	1030.4	1033.3	1040.2	1046.0	1046.0	1046.0	1041.2	1035.3	1030.4	1029.4
37.5°	1030.4	1032.4	1039.2	1049.0	1058.7	1059.7	1058.7	1049.0	1040.2	1032.4	1031.4
40°	1038.2	1040.2	1051.9	1066.5	1079.2	1083.2	1080.2	1066.5	1052.9	1042.1	1039.2
42.5°	1037.2	1040.2	1052.9	1071.4	1084.1	1090.0	1084.1	1071.4	1054.8	1043.1	1039.2
45°	1033.3	1035.3	1049.0	1068.5	1084.1	1090.0	1085.1	1070.5	1051.9	1038.2	1035.3
47.5°	1027.5	1029.4	1040.2	1063.6	1081.2	1087.1	1082.2	1066.5	1043.1	1032.4	1030.4
50°	1019.7	1025.5	1043.1	1067.5	1091.0	1094.9	1091.9	1069.5	1045.1	1029.4	1021.6
52.5°	1027.5	1026.5	1047.0	1091.0	1112.5	1125.2	1115.4	1089.0	1051.9	1031.4	1029.4
55°	1045.1	1052.9	1075.3	1116.4	1151.5	1169.1	1155.4	1119.3	1077.3	1051.9	1047.0
57.5°	1044.1	1053.9	1093.9	1134.9	1188.6	1200.4	1184.7	1139.8	1091.9	1058.7	1046.0
60°	1038.2	1042.1	1072.4	1145.7	1175.9	1189.6	1175.9	1140.8	1080.2	1043.1	1043.1
62.5°	1018.7	1025.5	1073.4	1124.2	1167.1	1188.6	1172.0	1128.1	1072.4	1032.4	1019.7
65°	1006.0	1010.9	1057.8	1126.1	1187.7	1211.1	1183.8	1127.1	1060.7	1013.8	1007.0
67.5°	965.9	974.7	1018.7	1092.9	1152.5	1171.1	1160.3	1091.0	1018.7	975.7	965.0
70°	897.6	902.5	963.0	1033.3	1088.0	1100.7	1085.1	1040.2	957.2	909.3	894.7
72.5°	813.6	820.4	876.1	954.2	1007.0	1023.6	1005.0	957.2	871.2	828.2	814.6
75°	728.6	735.4	771.6	856.6	900.5	924.0	902.5	850.7	773.5	731.5	725.7
77.5°	606.5	617.3	672.9	729.6	771.6	796.0	777.4	729.6	669.0	619.2	600.7
80°	476.6	484.4	536.2	586.0	624.1	639.7	630.9	586.0	537.2	486.4	477.6
82.5°	334.0	338.9	383.8	423.9	470.8	470.8	461.0	431.7	382.9	338.9	340.9
85°	178.7	184.6	218.8	250.0	279.3	279.3	270.5	252.0	217.8	183.6	179.7
87.5°	36.1	40.0	52.7	57.6	68.4	73.3	66.4	60.6	52.7	42.0	42.0
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)