

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: P400647

Luminaire Tested: **TT-D4-827-U-MQ**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D4-827-U-MQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6687 lumens
Efficiency: N/A
Efficacy: 116.1 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): 57.6
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: 28.75 FT



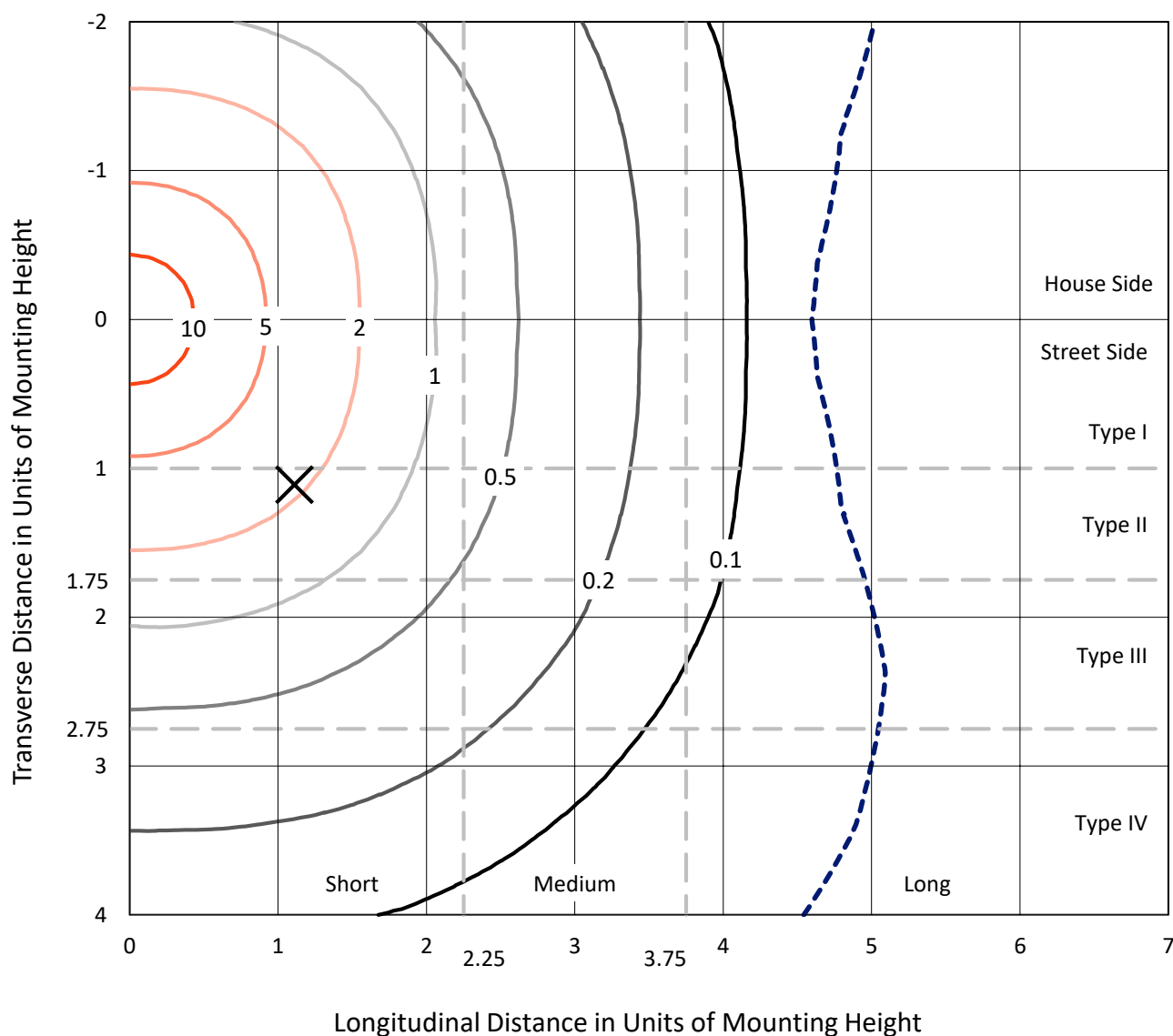
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

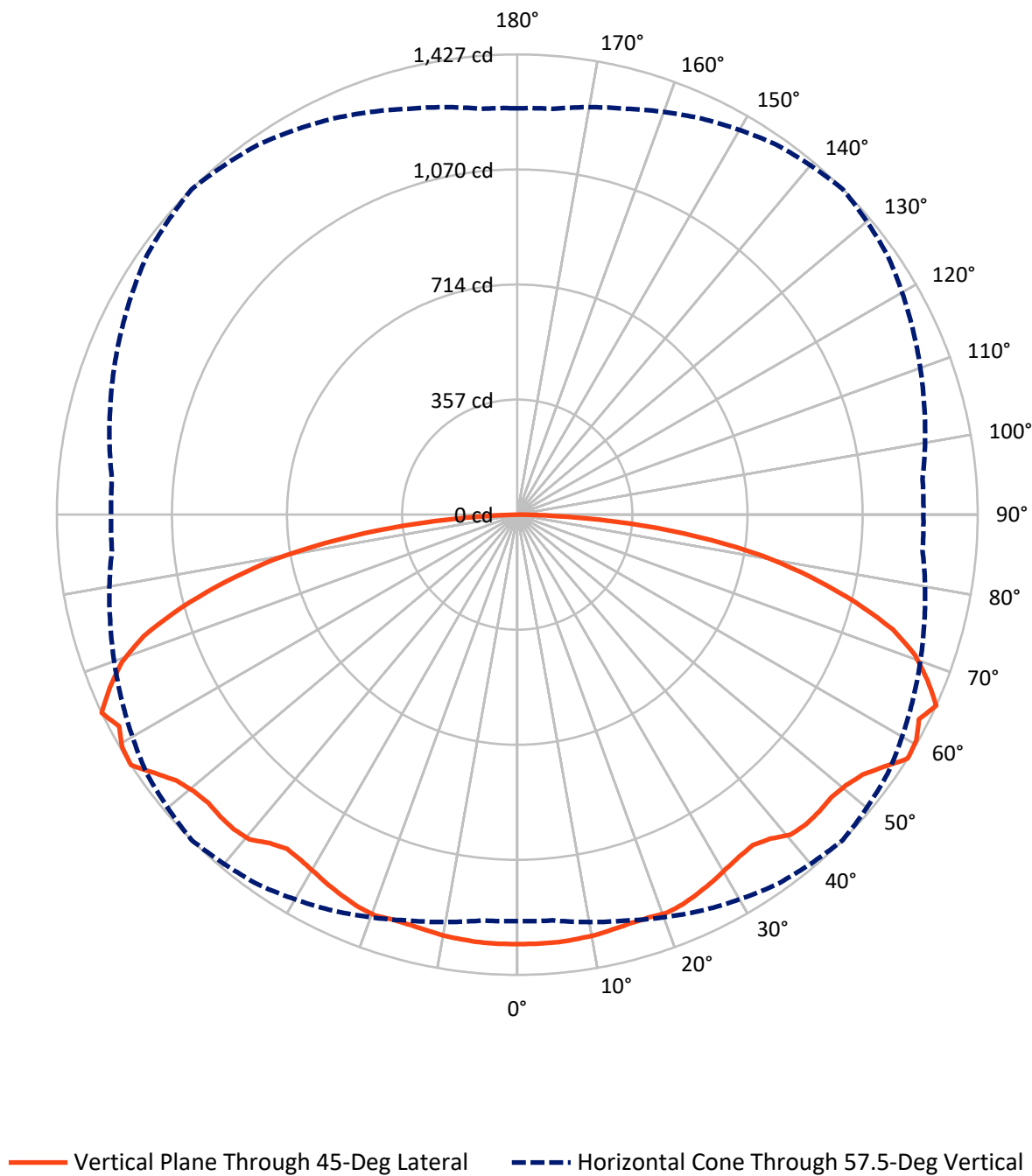


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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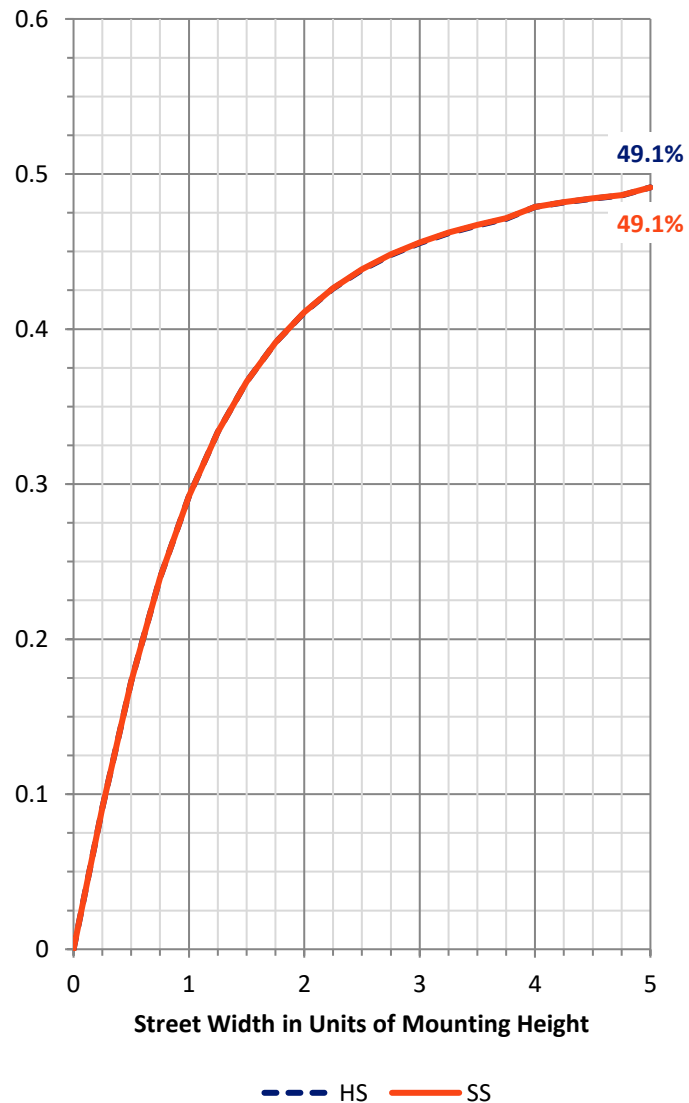
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3343.5	0.0	3343.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3343.5	0.0	3343.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6687.0	0.0	6687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.9
10°-20°	373.3	5.6
20°-30°	599.8	9.0
30°-40°	791.9	11.8
40°-50°	990.7	14.8
50°-60°	1178.4	17.6
60°-70°	1278.1	19.1
70°-80°	1017.3	15.2
80°-90°	330.7	4.9
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°	6687.0	100.0
0°-180°	6687.0	100.0

Coefficient of Utilization



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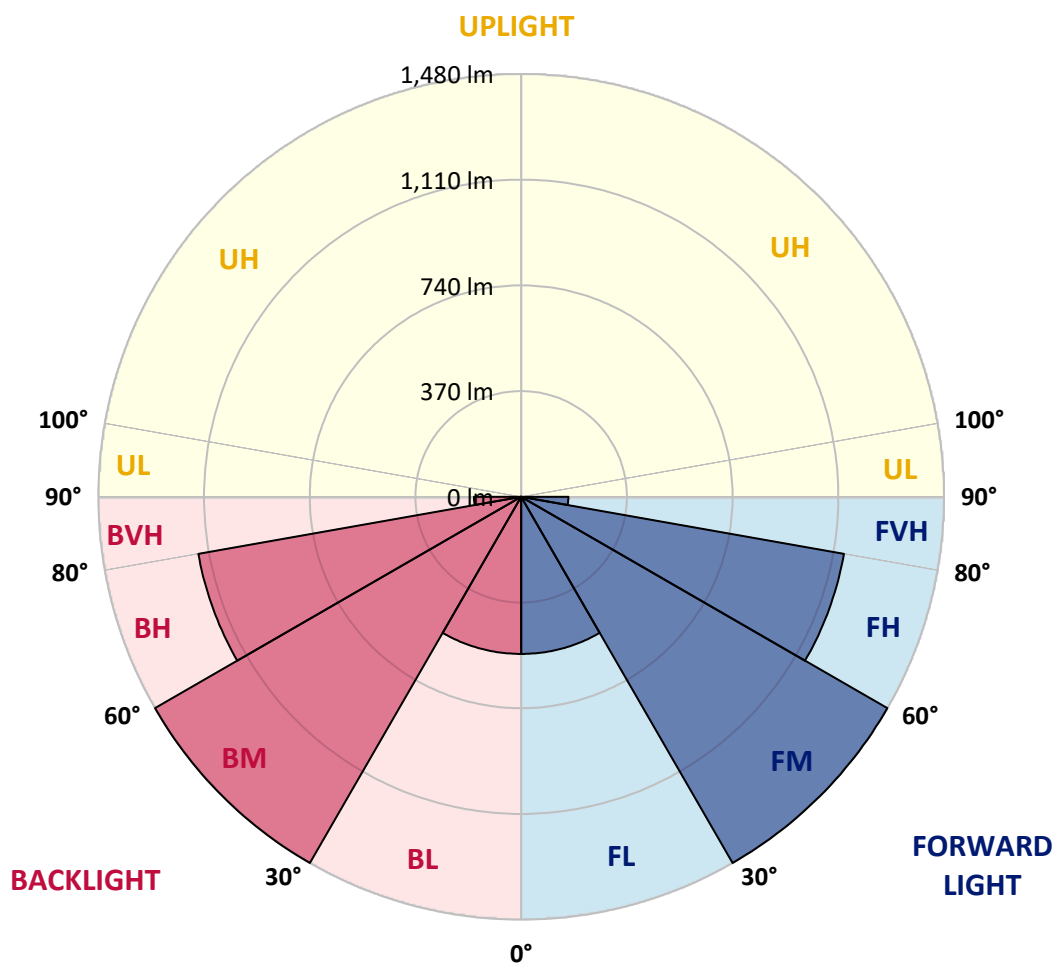
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.0	8.2			
FM	(30°-60°)	1480.5	22.1			
FH	(60°-80°)	1147.7	17.2			G1/1800
FVH	(80°-90°)	165.3	2.5			G2/225
BL	(0°-30°)	550.0	8.2	B2/1000		
BM	(30°-60°)	1480.5	22.1	B2/2500		
BH	(60°-80°)	1147.7	17.2	B3/2500		G1/1800
BVH	(80°-90°)	165.3	2.5			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°	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8
2.5°	1333.8	1332.8	1333.8	1332.8	1332.8	1331.8	1332.8	1332.8	1332.8	1332.8	1332.8
5°	1332.8	1331.8	1331.8	1332.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8	1331.8
7.5°	1328.9	1328.9	1329.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1329.9	1329.9
10°	1325.9	1324.9	1325.9	1325.9	1324.9	1325.9	1324.9	1325.9	1325.9	1325.9	1325.9
12.5°	1321.9	1320.9	1321.9	1321.9	1320.9	1319.9	1320.9	1320.9	1321.9	1321.9	1321.9
15°	1314.9	1314.9	1316.9	1315.9	1315.9	1314.9	1316.9	1315.9	1314.9	1315.9	1315.9
17.5°	1310.0	1310.0	1312.0	1313.9	1313.9	1313.9	1313.9	1312.9	1311.0	1312.0	1310.0
20°	1311.0	1312.0	1312.9	1315.9	1317.9	1318.9	1318.9	1315.9	1312.9	1313.9	1312.9
22.5°	1308.0	1307.0	1308.0	1310.0	1312.9	1312.9	1312.9	1309.0	1308.0	1307.0	1307.0
25°	1296.0	1296.0	1298.0	1300.0	1302.0	1301.0	1302.0	1300.0	1298.0	1296.0	1296.0
27.5°	1282.1	1282.1	1285.1	1287.1	1289.1	1289.1	1288.1	1286.1	1285.1	1283.1	1282.1
30°	1268.2	1268.2	1271.2	1273.2	1276.1	1275.1	1275.1	1272.2	1269.2	1267.2	1267.2
32.5°	1253.3	1252.3	1255.3	1260.2	1264.2	1264.2	1264.2	1258.2	1254.3	1252.3	1251.3
35°	1240.3	1240.3	1244.3	1253.3	1258.2	1258.2	1256.2	1252.3	1243.3	1240.3	1240.3
37.5°	1236.4	1239.3	1250.3	1263.2	1273.2	1275.1	1272.2	1261.2	1249.3	1240.3	1237.4
40°	1249.3	1252.3	1266.2	1287.1	1302.0	1305.0	1302.0	1286.1	1265.2	1251.3	1250.3
42.5°	1251.3	1253.3	1270.2	1294.0	1308.0	1312.9	1308.0	1292.1	1269.2	1252.3	1251.3
45°	1244.3	1245.3	1265.2	1290.1	1307.0	1312.9	1307.0	1288.1	1264.2	1245.3	1244.3
47.5°	1235.4	1237.4	1259.2	1285.1	1306.0	1310.0	1305.0	1284.1	1257.2	1238.3	1235.4
50°	1228.4	1234.4	1254.3	1283.1	1308.0	1319.9	1308.0	1280.1	1253.3	1232.4	1228.4
52.5°	1232.4	1234.4	1260.2	1301.0	1334.8	1339.8	1333.8	1301.0	1258.2	1234.4	1231.4
55°	1244.3	1253.3	1281.1	1339.8	1370.6	1379.6	1366.7	1337.8	1282.1	1253.3	1244.3
57.5°	1260.2	1263.2	1303.0	1354.7	1400.5	1427.3	1401.5	1353.7	1306.0	1261.2	1259.2
60°	1247.3	1238.3	1288.1	1348.8	1410.4	1421.4	1406.4	1349.7	1286.1	1237.4	1246.3
62.5°	1212.5	1218.5	1259.2	1342.8	1385.6	1397.5	1381.6	1342.8	1257.2	1223.4	1209.5
65°	1184.6	1220.4	1265.2	1324.9	1393.5	1427.3	1394.5	1322.9	1267.2	1214.5	1181.7
67.5°	1145.8	1152.8	1219.4	1293.1	1354.7	1371.6	1353.7	1294.0	1213.5	1147.8	1152.8
70°	1080.2	1070.2	1137.9	1223.4	1282.1	1309.0	1284.1	1219.4	1134.9	1068.3	1077.2
72.5°	971.8	977.7	1040.4	1130.9	1191.6	1217.5	1192.6	1124.0	1038.4	983.7	977.7
75°	858.4	865.4	926.0	1008.6	1070.2	1081.2	1074.2	1003.6	928.0	864.4	858.4
77.5°	729.1	736.0	785.8	876.3	913.1	930.0	915.1	881.3	783.8	735.1	727.1
80°	585.9	583.9	627.6	705.2	751.0	769.9	751.0	707.2	625.6	587.8	574.9
82.5°	418.7	420.7	461.5	515.2	559.0	565.0	556.0	520.2	457.5	425.7	407.8
85°	232.7	241.7	271.5	311.3	340.2	350.1	335.2	301.4	270.5	245.7	237.7
87.5°	55.7	60.7	70.6	89.5	100.5	110.4	100.5	93.5	66.6	60.7	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)