

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: P200549

Luminaire Tested: **GPC-AF-01-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-5NQ-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4323 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

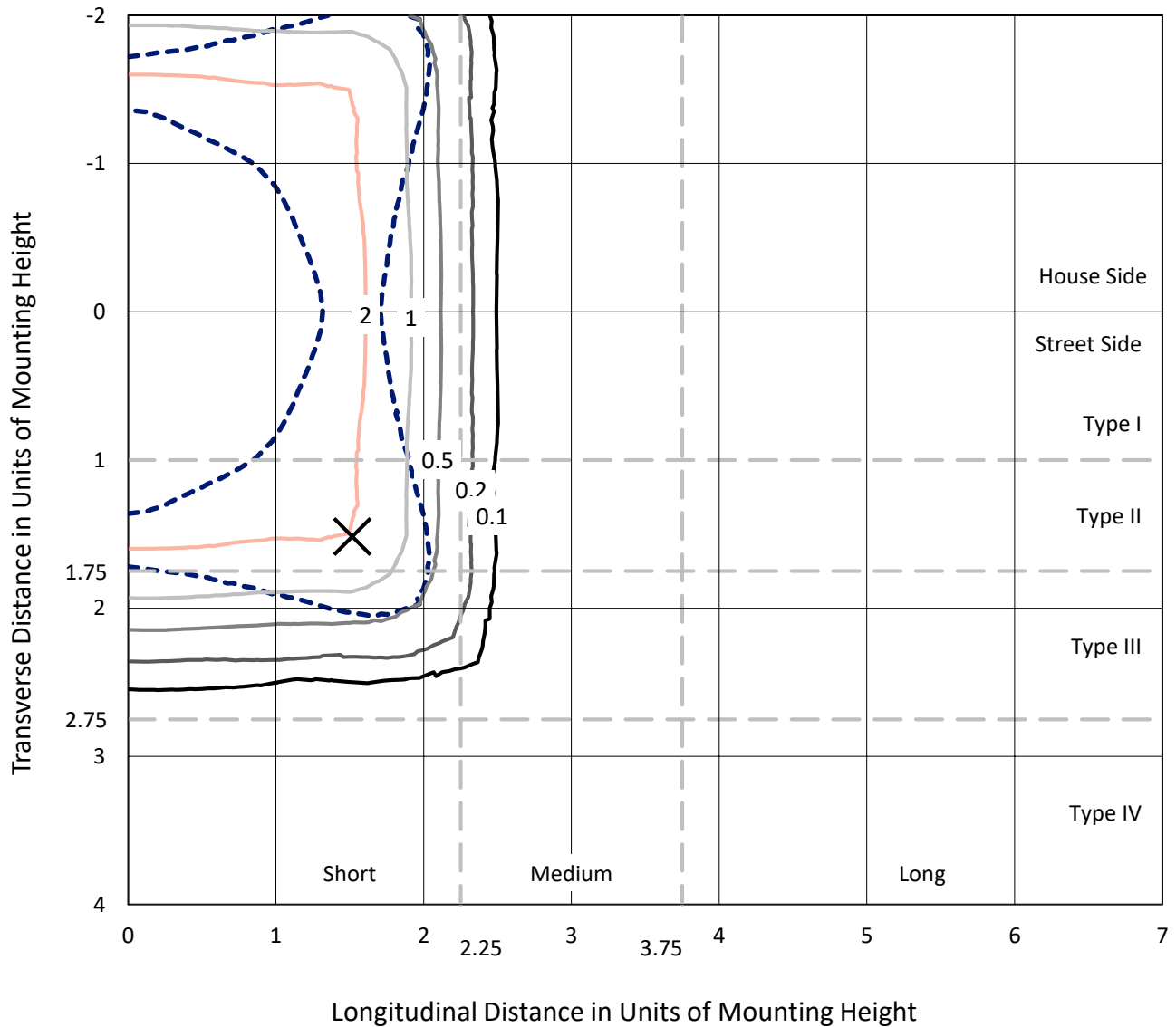
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

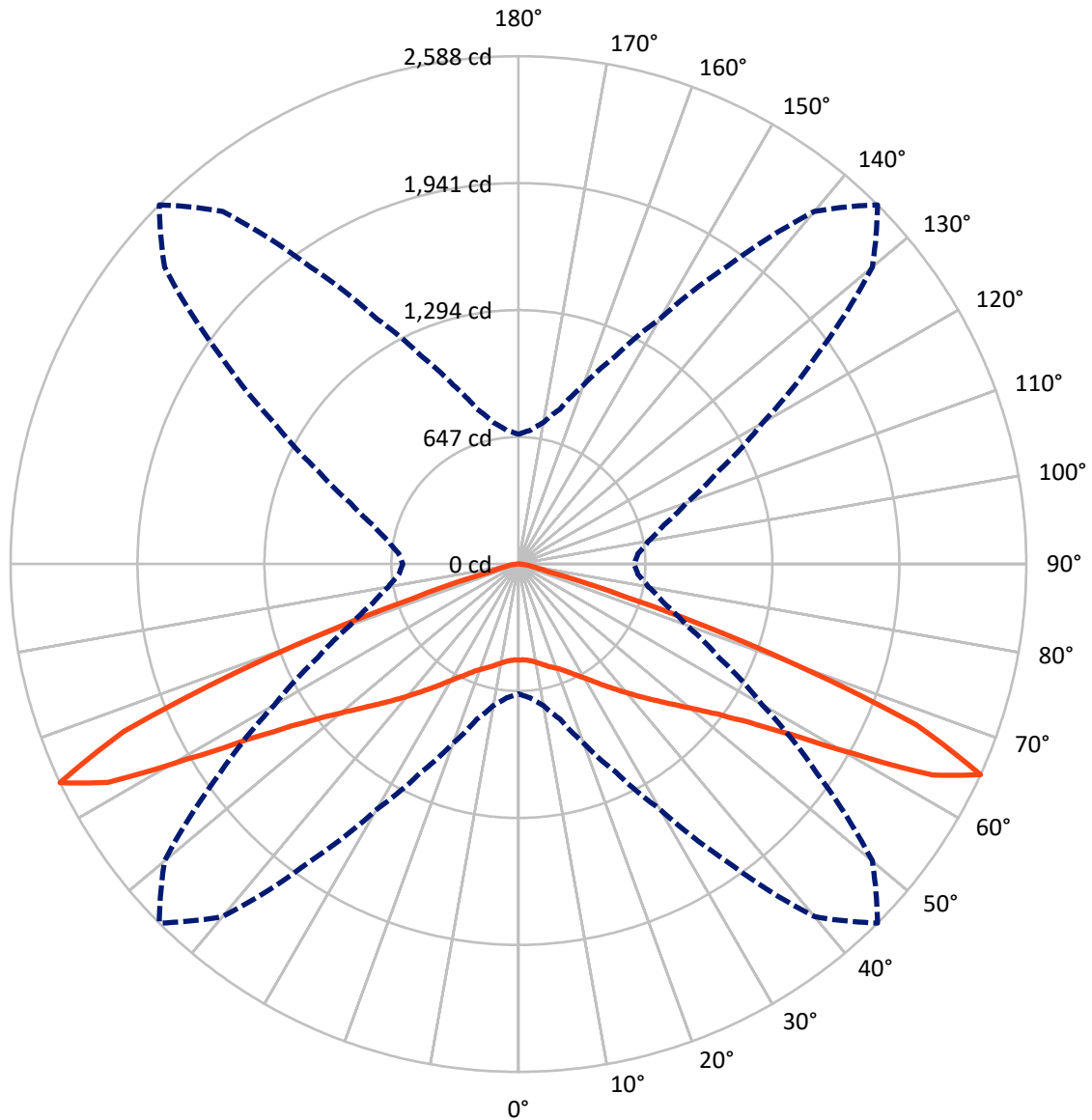
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.5	0.0	2161.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2161.5	0.0	2161.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4323.0	0.0	4323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	1.1
10°-20°	152.9	3.5
20°-30°	285.9	6.6
30°-40°	483.5	11.2
40°-50°	790.7	18.3
50°-60°	1257.3	29.1
60°-70°	1136.5	26.3
70°-80°	143.8	3.3
80°-90°	24.7	0.6
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°	4323.0	100.0
0°-180°	4323.0	100.0



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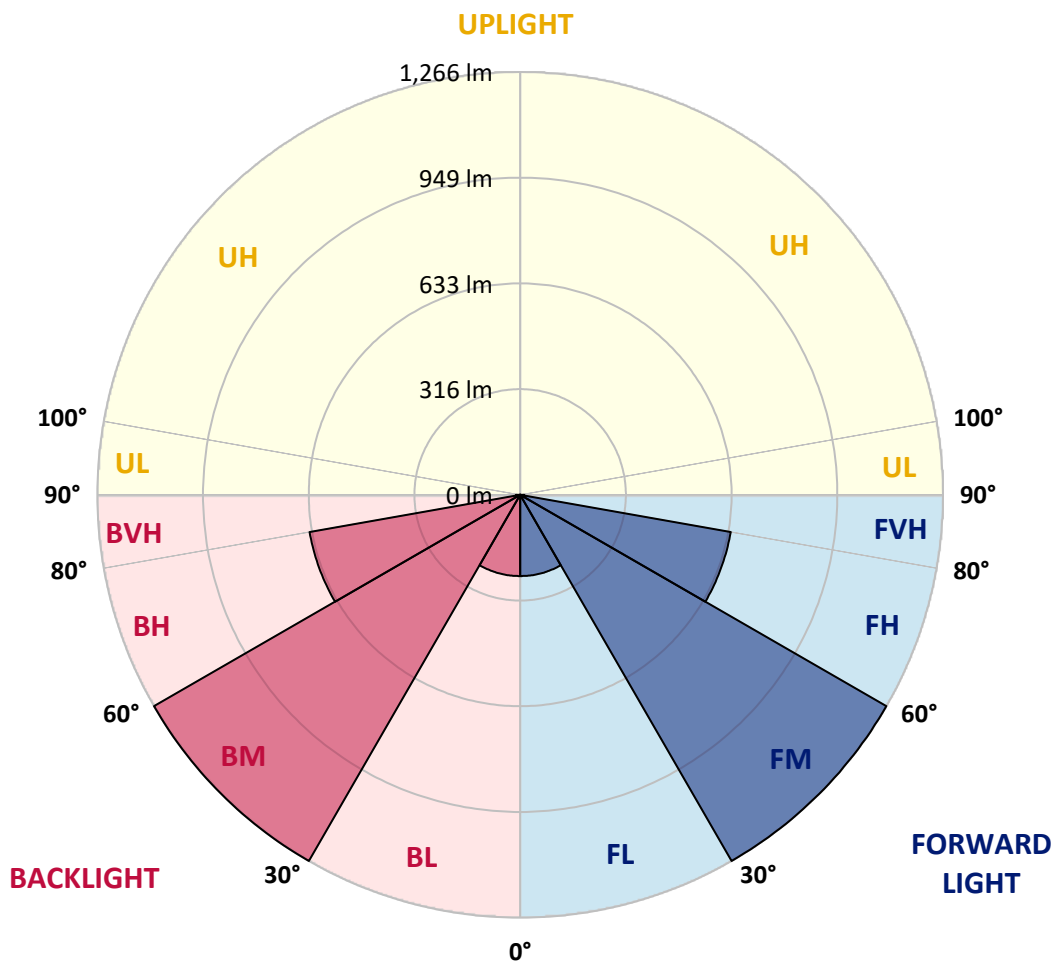
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.2	5.6			
FM	(30°-60°)	1265.7	29.3			
FH	(60°-80°)	640.2	14.8			G0/660
FVH	(80°-90°)	12.4	0.3			G1/100
BL	(0°-30°)	243.2	5.6	B1/500		
BM	(30°-60°)	1265.7	29.3	B2/2500		
BH	(60°-80°)	640.2	14.8	B2/1000		G0/660
BVH	(80°-90°)	12.4	0.3			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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	489.6	490.0	490.4	490.0	490.4	489.8	489.4	490.0	489.4	488.7	489.1
5°	493.8	494.0	494.0	493.4	494.0	493.6	493.0	493.8	493.2	492.6	493.0
7.5°	500.9	501.7	501.1	500.5	500.9	500.5	500.1	500.3	500.1	499.5	499.7
10°	510.4	511.0	510.6	510.4	510.8	510.6	510.2	510.0	510.2	509.6	509.6
12.5°	521.9	521.7	521.5	521.7	522.4	522.4	522.2	522.4	522.8	523.0	522.6
15°	533.3	533.7	533.7	533.7	534.9	535.9	536.5	536.9	537.7	537.9	537.1
17.5°	547.5	547.5	547.3	547.5	548.7	550.3	550.9	551.7	552.5	553.1	552.1
20°	563.3	563.7	563.7	564.1	565.7	567.5	567.5	567.9	567.5	567.9	567.3
22.5°	582.5	583.7	583.7	583.9	585.5	587.7	587.1	587.7	586.7	587.5	586.7
25°	607.6	609.4	609.0	609.0	610.2	611.6	611.8	613.1	612.9	613.9	613.3
27.5°	635.9	638.8	639.6	639.4	640.2	641.6	642.0	643.4	642.6	643.4	643.0
30°	669.9	671.2	672.8	673.4	674.4	675.8	675.8	676.0	675.0	676.2	676.8
32.5°	705.2	707.4	709.0	712.7	714.5	715.5	715.3	715.7	714.7	716.3	717.5
35°	751.7	753.4	756.0	758.8	761.3	761.1	760.4	760.7	760.7	762.1	763.3
37.5°	807.8	808.2	811.7	815.7	816.9	815.7	812.1	811.3	809.4	811.3	813.3
40°	867.1	868.6	875.4	878.1	878.7	876.5	871.2	868.2	864.1	866.3	869.2
42.5°	929.3	932.1	938.4	943.1	945.1	943.7	936.4	931.7	926.5	927.7	930.5
45°	998.1	1001.6	1010.5	1014.9	1018.8	1016.6	1009.5	1002.4	994.1	994.7	999.2
47.5°	1075.1	1078.5	1090.1	1097.6	1099.6	1099.2	1091.3	1081.6	1070.2	1069.8	1073.7
50°	1161.3	1164.8	1179.1	1190.7	1196.6	1195.9	1186.6	1172.9	1159.1	1159.3	1164.2
52.5°	1245.6	1249.8	1264.8	1284.6	1296.2	1304.5	1298.8	1285.8	1269.0	1269.4	1273.9
55°	1324.5	1331.6	1348.8	1375.7	1397.2	1420.5	1427.2	1426.8	1416.6	1419.5	1423.9
57.5°	1362.8	1373.3	1399.8	1442.3	1486.1	1533.5	1573.5	1603.5	1616.3	1635.5	1631.0
60°	1290.3	1307.1	1346.2	1408.7	1495.2	1594.0	1699.9	1803.3	1891.6	1958.2	1920.0
62.5°	1056.5	1078.3	1125.7	1205.9	1336.7	1494.8	1697.4	1942.0	2208.5	2369.2	2254.4
65°	661.0	683.7	731.9	817.7	970.8	1167.4	1442.3	1847.7	2345.5	2587.9	2354.2
67.5°	257.7	270.1	296.2	351.1	466.1	641.0	917.0	1376.9	1972.4	2184.8	1935.7
70°	129.2	130.4	135.2	145.4	170.1	220.9	336.1	638.4	1131.2	1366.2	1090.5
72.5°	93.3	93.5	96.0	100.4	108.3	119.7	141.5	195.4	367.9	562.2	344.8
75°	71.5	72.3	73.7	76.1	80.4	86.0	93.9	112.6	139.5	161.8	136.1
77.5°	55.1	56.7	57.7	59.9	62.6	66.4	68.6	75.7	88.1	92.7	91.3
80°	41.9	43.3	45.6	47.4	49.2	51.0	50.2	53.5	59.9	63.8	61.8
82.5°	26.7	28.3	34.8	36.4	37.3	38.5	37.1	37.3	40.1	42.5	40.1
85°	17.2	18.2	22.1	24.1	24.3	25.1	24.5	23.1	23.1	21.1	23.7
87.5°	7.9	8.1	9.9	11.7	12.1	10.9	10.7	10.3	8.3	7.9	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	488.9	489.4	489.6	490.2	490.4	490.4	490.6	491.0
5°	492.8	493.4	493.6	494.4	494.6	494.4	494.8	495.0
7.5°	499.7	500.7	501.1	501.9	501.3	502.1	502.3	502.3
10°	509.8	510.8	511.0	511.8	511.4	511.8	511.8	511.4
12.5°	523.2	523.4	522.8	523.4	522.6	523.0	522.4	521.9
15°	537.9	537.3	535.9	535.9	534.7	534.9	534.7	534.5
17.5°	552.3	551.1	550.1	549.7	548.7	548.5	547.9	547.9
20°	568.1	567.5	566.9	566.1	565.1	564.1	563.9	564.3
22.5°	587.1	586.9	586.9	586.5	585.1	584.1	583.5	583.5
25°	612.7	610.8	610.8	610.6	610.0	609.4	608.2	608.8
27.5°	641.4	640.4	641.2	641.0	640.4	640.4	639.6	639.6
30°	676.8	676.4	677.6	676.6	674.6	674.4	673.6	672.6
32.5°	717.7	717.3	719.1	717.9	714.7	712.9	711.3	710.4
35°	763.3	763.5	765.7	764.9	761.3	760.0	757.2	756.8
37.5°	813.1	816.3	820.2	821.0	817.9	817.1	814.1	812.5
40°	871.6	875.9	881.7	883.1	879.9	879.3	875.0	872.8
42.5°	934.0	941.2	948.5	949.8	946.5	943.3	939.2	937.6
45°	1003.6	1012.3	1021.8	1024.3	1019.4	1015.6	1010.3	1010.3
47.5°	1081.8	1092.7	1103.4	1110.1	1105.6	1101.6	1095.3	1091.3
50°	1174.1	1189.1	1203.0	1209.9	1202.8	1195.1	1184.2	1180.6
52.5°	1289.9	1306.1	1318.2	1314.6	1303.7	1292.9	1281.0	1276.1
55°	1437.7	1443.2	1443.2	1429.4	1407.5	1389.5	1370.7	1364.4
57.5°	1622.5	1601.5	1569.1	1528.0	1476.4	1431.4	1401.0	1386.7
60°	1839.8	1738.5	1624.2	1511.8	1419.5	1343.3	1298.2	1277.5
62.5°	1984.5	1719.7	1490.5	1310.1	1177.3	1085.6	1023.2	999.0
65°	1854.8	1434.2	1127.3	911.5	766.7	673.4	611.6	589.0
67.5°	1358.5	898.7	600.3	430.2	315.2	251.5	226.2	215.6
70°	609.8	316.4	194.0	151.4	130.6	119.9	115.2	113.6
72.5°	183.8	133.0	112.2	101.2	92.9	87.7	83.8	83.4
75°	110.9	92.3	82.0	75.5	70.3	66.0	64.0	63.4
77.5°	77.5	67.8	63.0	58.3	54.3	51.0	49.2	47.8
80°	54.5	49.8	47.6	44.9	42.3	39.3	36.6	35.4
82.5°	36.4	35.4	35.4	33.8	31.6	28.7	23.5	22.3
85°	23.5	23.3	23.7	23.1	21.5	18.4	15.2	14.4
87.5°	10.9	11.1	12.4	12.1	11.7	9.7	7.7	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)