

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: P200227

Luminaire Tested: **GWC-AF-01-LED-E1-5NQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200227
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: GWC-AF-01-LED-E1-5NQ-7050-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4321 lumens
Efficiency: N/A
Efficacy: 127.1 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): 34
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

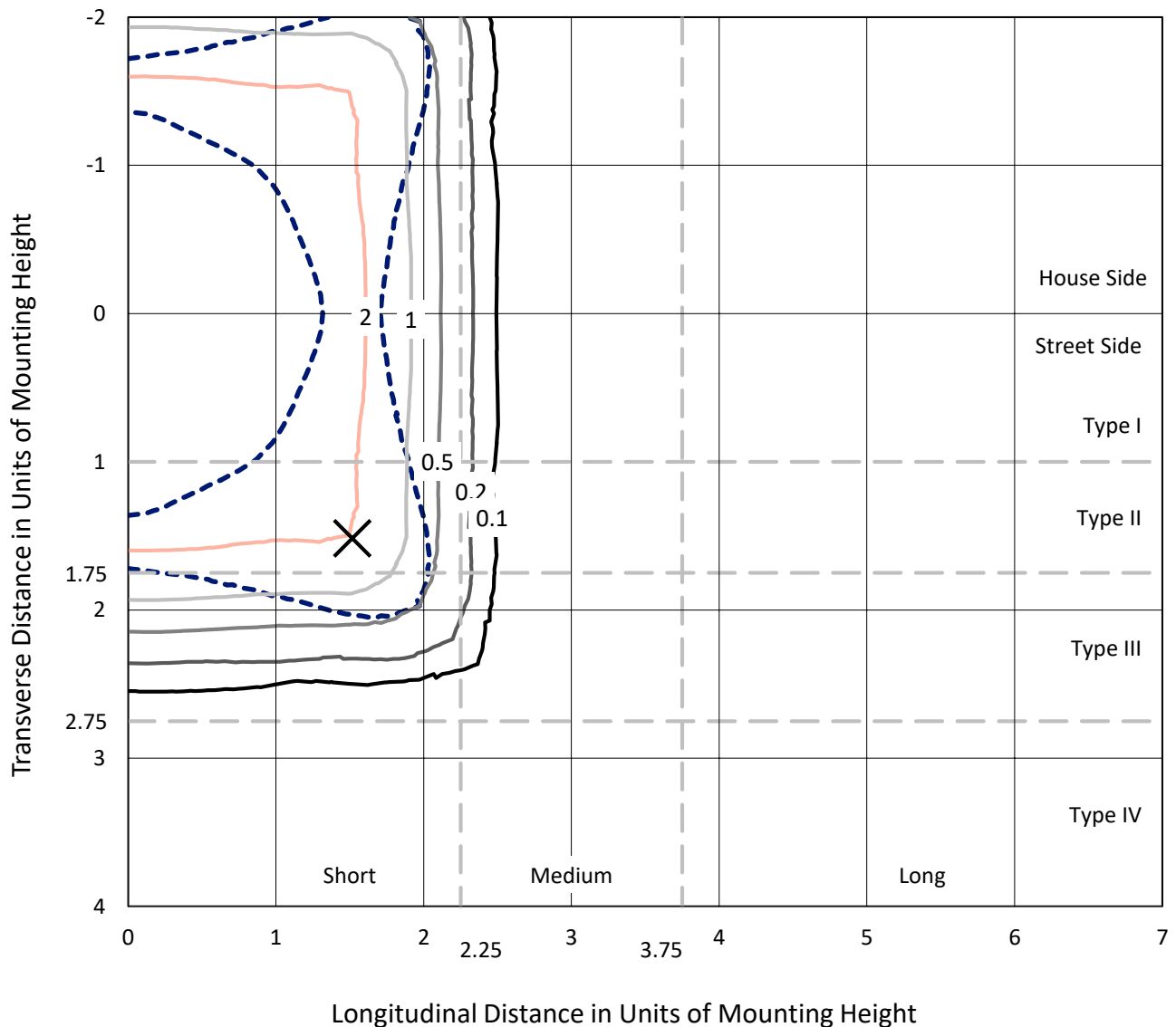


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Iso-Footcandle Lines of Horizontal Illumination

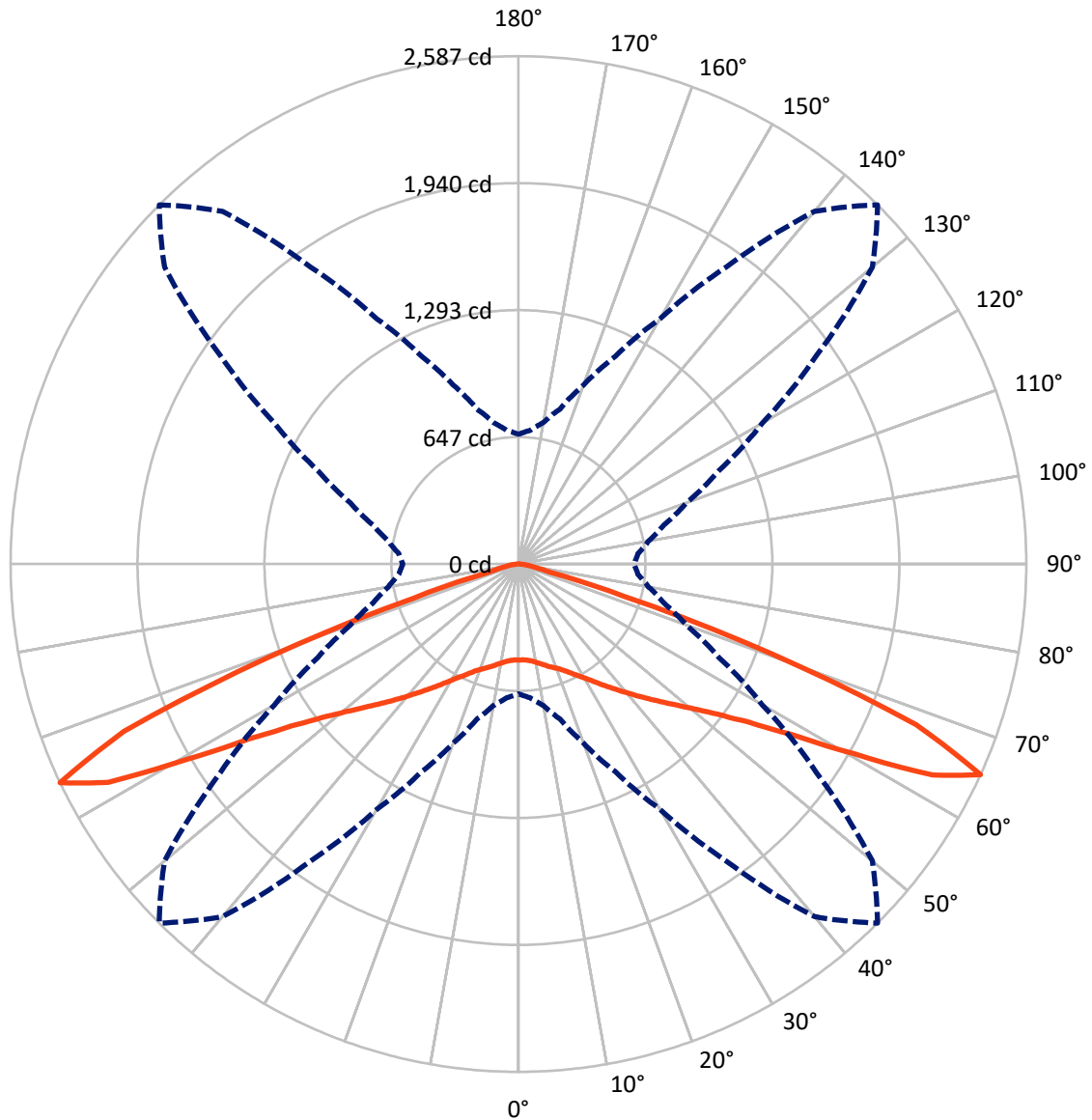
× Max cd
 - - - 1/2 Max cd



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	2160.5	0.0	2160.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2160.5	0.0	2160.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4321.0	0.0	4321.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	1.1
10°-20°	152.8	3.5
20°-30°	285.8	6.6
30°-40°	483.3	11.2
40°-50°	790.3	18.3
50°-60°	1256.7	29.1
60°-70°	1136.0	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°	4321.0	100.0
0°-180°	4321.0	100.0



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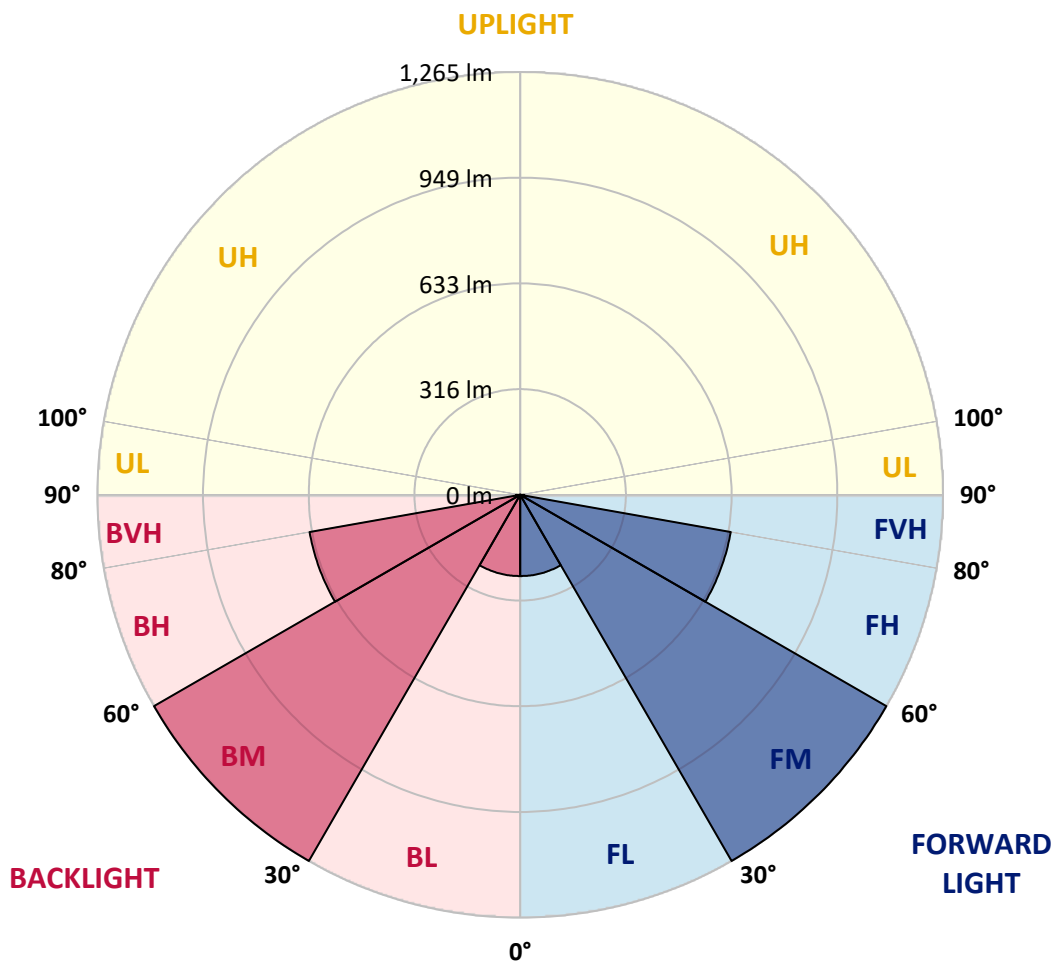
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.1	5.6			
FM	(30°-60°)	1265.1	29.3			
FH	(60°-80°)	639.9	14.8			G0/660
FVH	(80°-90°)	12.4	0.3			G1/100
BL	(0°-30°)	243.1	5.6	B1/500		
BM	(30°-60°)	1265.1	29.3	B2/2500		
BH	(60°-80°)	639.9	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°	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9
2.5°	489.3	489.7	490.1	489.7	490.1	489.5	489.1	489.7	489.1	488.5	488.9
5°	493.6	493.8	493.8	493.2	493.8	493.4	492.8	493.6	493.0	492.4	492.8
7.5°	500.7	501.5	500.9	500.3	500.7	500.3	499.9	500.1	499.9	499.2	499.4
10°	510.2	510.8	510.4	510.2	510.6	510.4	510.0	509.8	510.0	509.4	509.4
12.5°	521.7	521.5	521.3	521.5	522.1	522.1	521.9	522.1	522.5	522.7	522.3
15°	533.0	533.4	533.4	533.4	534.7	535.7	536.3	536.7	537.5	537.7	536.9
17.5°	547.2	547.2	547.0	547.2	548.4	550.0	550.6	551.5	552.3	552.9	551.9
20°	563.0	563.4	563.4	563.8	565.4	567.2	567.2	567.6	567.2	567.6	567.0
22.5°	582.2	583.4	583.4	583.6	585.3	587.5	586.9	587.5	586.5	587.3	586.5
25°	607.3	609.1	608.7	608.7	609.9	611.4	611.6	612.8	612.6	613.6	613.0
27.5°	635.6	638.5	639.3	639.1	639.9	641.3	641.7	643.1	642.3	643.1	642.7
30°	669.6	670.9	672.5	673.1	674.1	675.5	675.5	675.7	674.7	675.9	676.5
32.5°	704.9	707.1	708.7	712.3	714.2	715.2	715.0	715.4	714.4	716.0	717.2
35°	751.4	753.0	755.6	758.5	760.9	760.7	760.1	760.3	760.3	761.7	762.9
37.5°	807.5	807.9	811.3	815.3	816.6	815.3	811.7	810.9	809.1	810.9	812.9
40°	866.7	868.2	875.0	877.7	878.3	876.1	870.8	867.8	863.7	865.9	868.8
42.5°	928.9	931.7	938.0	942.6	944.7	943.2	936.0	931.3	926.0	927.3	930.1
45°	997.7	1001.1	1010.0	1014.5	1018.3	1016.1	1009.0	1001.9	993.6	994.2	998.7
47.5°	1074.6	1078.0	1089.6	1097.0	1099.1	1098.7	1090.8	1081.1	1069.7	1069.3	1073.2
50°	1160.8	1164.2	1178.6	1190.1	1196.0	1195.4	1186.1	1172.3	1158.6	1158.8	1163.6
52.5°	1245.0	1249.2	1264.2	1284.0	1295.6	1303.9	1298.2	1285.2	1268.4	1268.9	1273.3
55°	1323.9	1331.0	1348.2	1375.1	1396.5	1419.8	1426.5	1426.1	1416.0	1418.8	1423.3
57.5°	1362.1	1372.7	1399.2	1441.7	1485.4	1532.7	1572.8	1602.8	1615.5	1634.7	1630.3
60°	1289.7	1306.5	1345.6	1408.1	1494.5	1593.3	1699.1	1802.5	1890.7	1957.3	1919.1
62.5°	1056.0	1077.8	1125.2	1205.3	1336.0	1494.1	1696.7	1941.1	2207.4	2368.1	2253.4
65°	660.7	683.4	731.6	817.4	970.4	1166.9	1441.7	1846.8	2344.4	2586.7	2353.1
67.5°	257.6	270.0	296.1	350.9	465.9	640.7	916.5	1376.3	1971.5	2183.8	1934.8
70°	129.1	130.3	135.2	145.3	170.0	220.8	335.9	638.1	1130.6	1365.6	1090.0
72.5°	93.3	93.5	95.9	100.4	108.3	119.6	141.5	195.3	367.7	562.0	344.6
75°	71.4	72.2	73.7	76.1	80.3	86.0	93.9	112.5	139.4	161.7	136.0
77.5°	55.0	56.7	57.7	59.9	62.5	66.4	68.6	75.7	88.0	92.7	91.3
80°	41.9	43.3	45.5	47.4	49.2	51.0	50.2	53.4	59.9	63.7	61.7
82.5°	26.7	28.3	34.8	36.4	37.2	38.5	37.0	37.2	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	21.0	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°	488.9	488.9	488.9	488.9	488.9	488.9	488.9	488.9
2.5°	488.7	489.1	489.3	489.9	490.1	490.1	490.3	490.7
5°	492.6	493.2	493.4	494.2	494.4	494.2	494.6	494.8
7.5°	499.4	500.5	500.9	501.7	501.1	501.9	502.1	502.1
10°	509.6	510.6	510.8	511.6	511.2	511.6	511.6	511.2
12.5°	522.9	523.1	522.5	523.1	522.3	522.7	522.1	521.7
15°	537.7	537.1	535.7	535.7	534.5	534.7	534.5	534.3
17.5°	552.1	550.8	549.8	549.4	548.4	548.2	547.6	547.6
20°	567.8	567.2	566.6	565.8	564.8	563.8	563.6	564.0
22.5°	586.9	586.7	586.7	586.3	584.8	583.8	583.2	583.2
25°	612.4	610.5	610.5	610.3	609.7	609.1	607.9	608.5
27.5°	641.1	640.1	640.9	640.7	640.1	640.1	639.3	639.3
30°	676.5	676.1	677.3	676.3	674.3	674.1	673.3	672.3
32.5°	717.4	717.0	718.8	717.6	714.4	712.5	710.9	710.1
35°	762.9	763.1	765.4	764.6	760.9	759.7	756.9	756.5
37.5°	812.7	816.0	819.8	820.6	817.6	816.8	813.7	812.1
40°	871.2	875.4	881.3	882.7	879.5	878.9	874.6	872.4
42.5°	933.5	940.8	948.1	949.3	946.1	942.8	938.8	937.2
45°	1003.1	1011.8	1021.4	1023.8	1018.9	1015.1	1009.8	1009.8
47.5°	1081.3	1092.2	1102.9	1109.6	1105.1	1101.1	1094.8	1090.8
50°	1173.5	1188.5	1202.5	1209.4	1202.3	1194.6	1183.7	1180.0
52.5°	1289.3	1305.5	1317.6	1314.0	1303.1	1292.3	1280.4	1275.5
55°	1437.0	1442.5	1442.5	1428.7	1406.9	1388.9	1370.0	1363.8
57.5°	1621.8	1600.7	1568.4	1527.3	1475.7	1430.7	1400.4	1386.0
60°	1838.9	1737.7	1623.4	1511.1	1418.8	1342.7	1297.6	1276.9
62.5°	1983.6	1718.9	1489.8	1309.5	1176.8	1085.1	1022.8	998.5
65°	1853.9	1433.6	1126.8	911.1	766.4	673.1	611.4	588.7
67.5°	1357.9	898.3	600.0	430.0	315.1	251.3	226.0	215.5
70°	609.5	316.3	193.9	151.4	130.5	119.8	115.1	113.5
72.5°	183.8	133.0	112.1	101.2	92.9	87.6	83.8	83.4
75°	110.9	92.3	82.0	75.5	70.2	66.0	63.9	63.3
77.5°	77.5	67.8	62.9	58.3	54.2	51.0	49.2	47.8
80°	54.4	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	12.3	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)