

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: P191629

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191629
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: GLEON-AF-01-LED-E1-5NQ-7050-600
Description: GALLEON AREA AND ROADWAY 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: 4236 lumens
Efficiency: N/A
Efficacy: 124.6 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

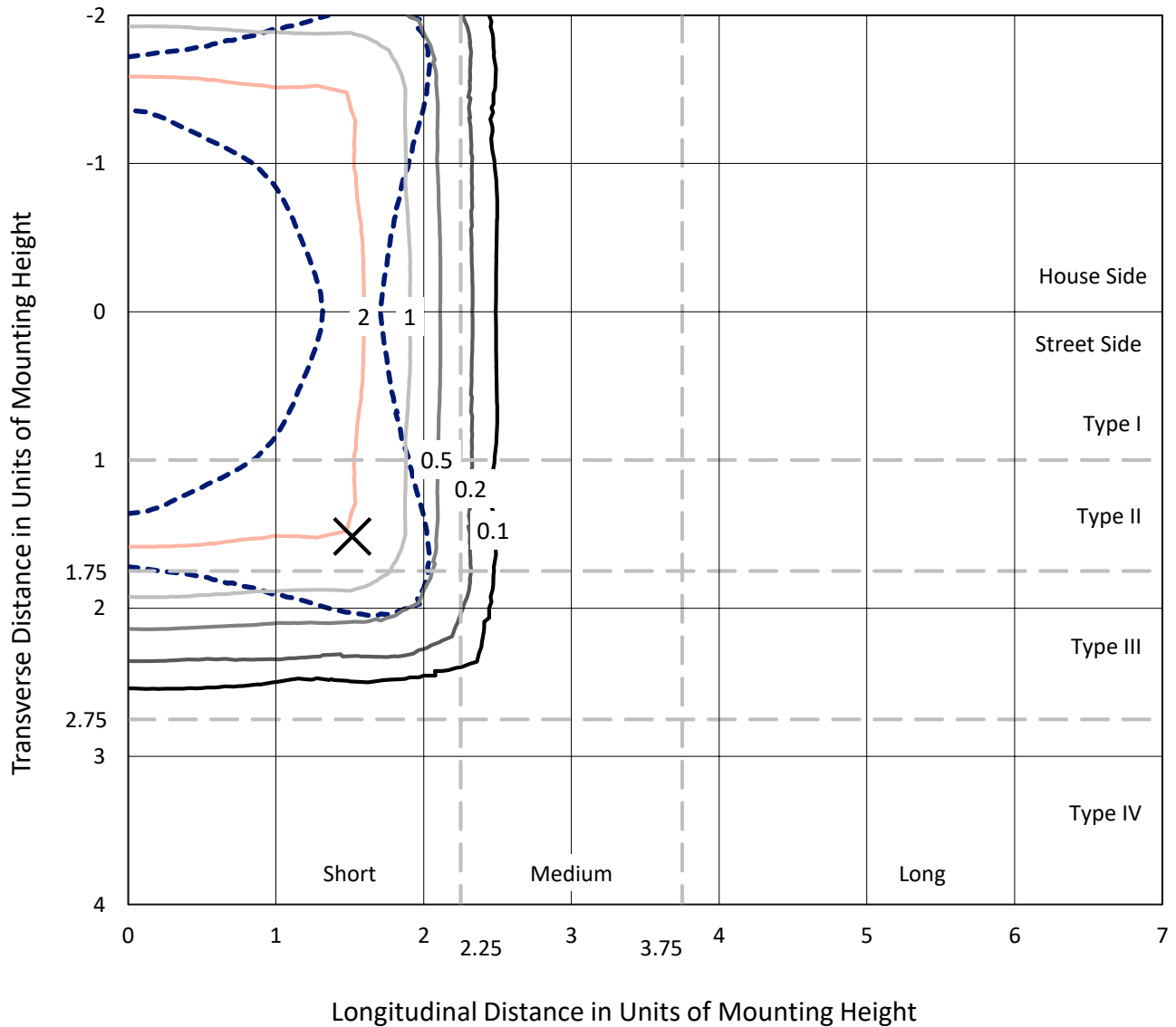


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

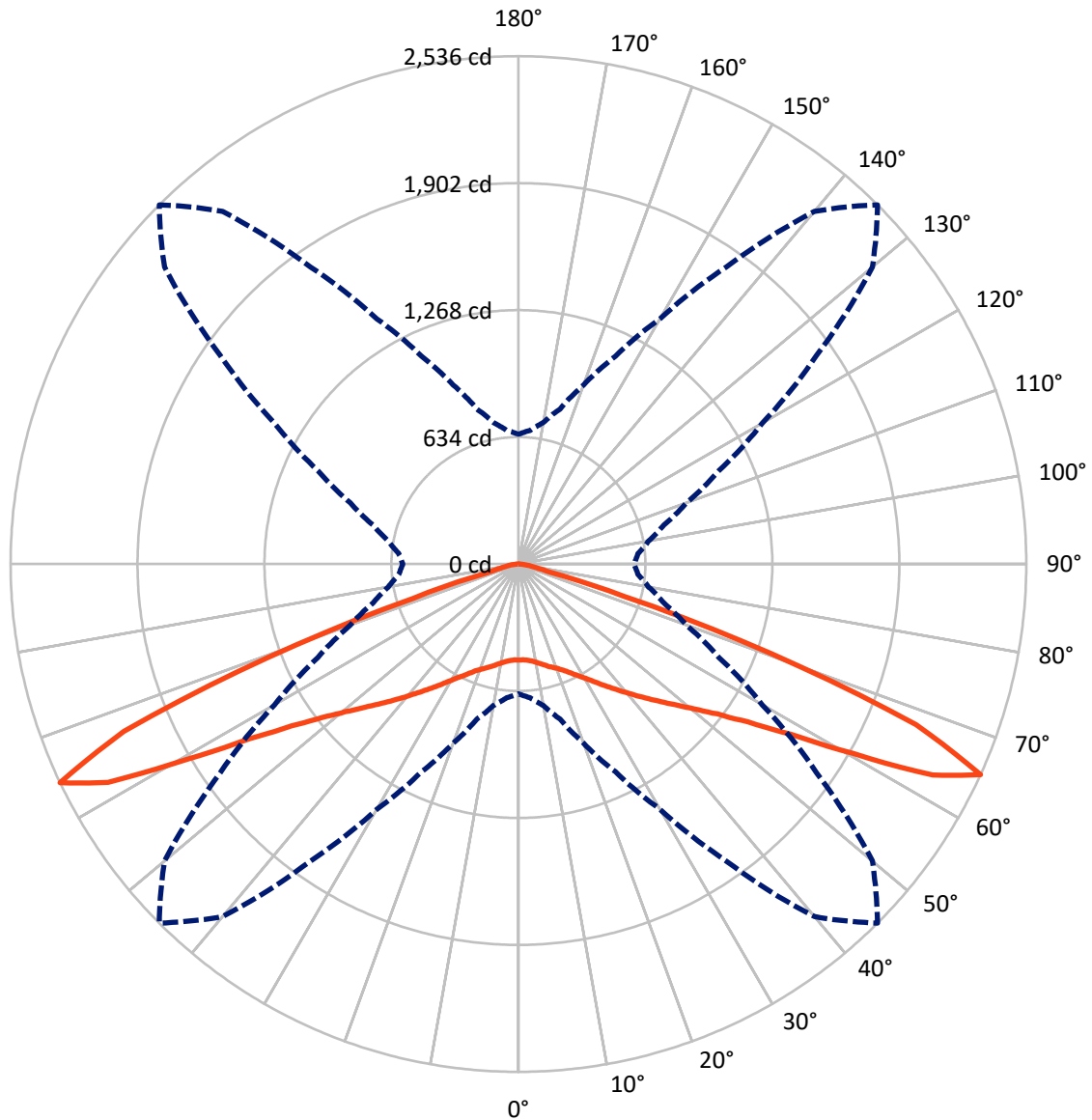


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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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	2118.0	0.0	2118.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2118.0	0.0	2118.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4236.0	0.0	4236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.1
10°-20°	149.8	3.5
20°-30°	280.1	6.6
30°-40°	473.8	11.2
40°-50°	774.7	18.3
50°-60°	1232.0	29.1
60°-70°	1113.6	26.3
70°-80°	140.9	3.3
80°-90°	24.2	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°	4236.0	100.0
0°-180°	4236.0	100.0

Coefficient of Utilization



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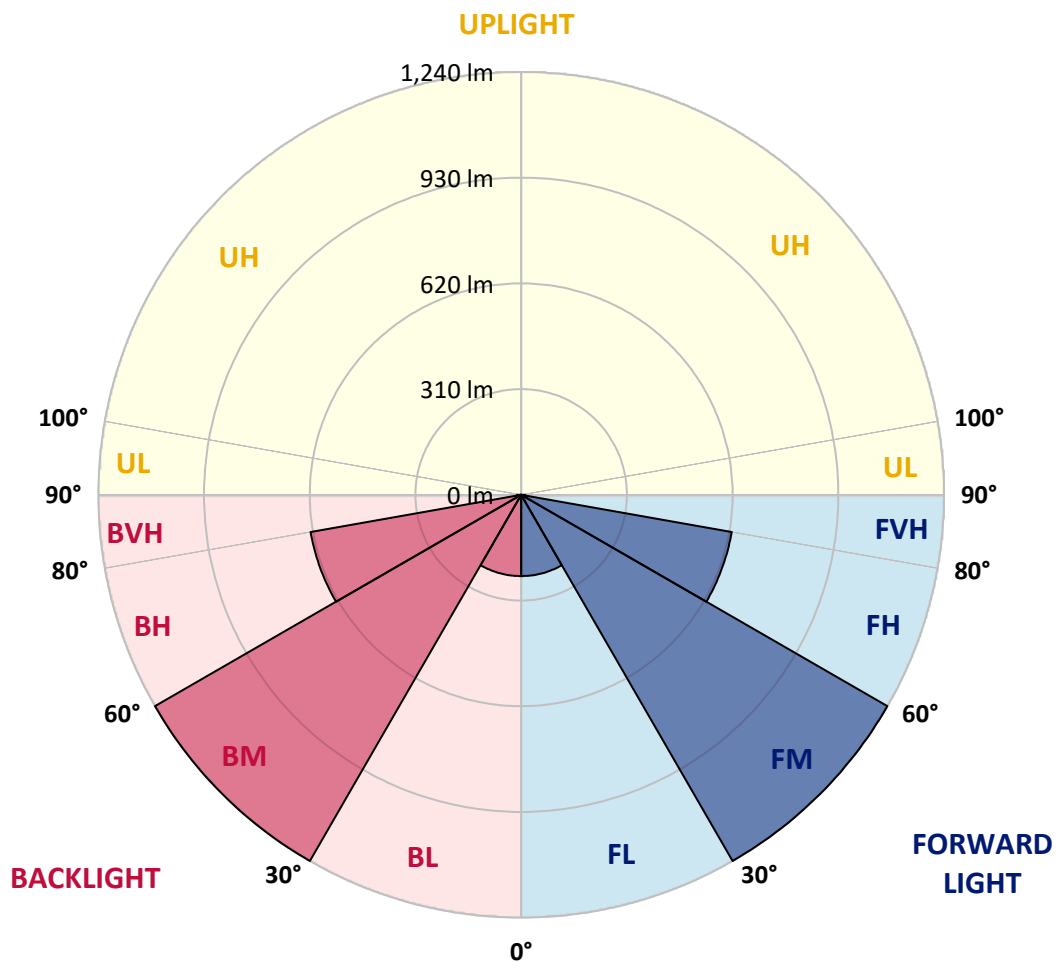
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.3	5.6			
FM (30°-60°)	1240.3	29.3			
FH (60°-80°)	627.3	14.8			G0/660
FVH (80°-90°)	12.1	0.3			G1/100
BL (0°-30°)	238.3	5.6	B1/500		
BM (30°-60°)	1240.3	29.3	B2/2500		
BH (60°-80°)	627.3	14.8	B2/1000		G0/660
BVH (80°-90°)	12.1	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°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	479.7	480.1	480.5	480.1	480.5	479.9	479.5	480.1	479.5	478.9	479.3
5°	483.9	484.1	484.1	483.5	484.1	483.7	483.1	483.9	483.3	482.7	483.1
7.5°	490.8	491.6	491.0	490.4	490.8	490.4	490.0	490.2	490.0	489.4	489.6
10°	500.1	500.7	500.3	500.1	500.5	500.3	499.9	499.7	499.9	499.3	499.3
12.5°	511.4	511.2	511.0	511.2	511.8	511.8	511.6	511.8	512.2	512.4	512.0
15°	522.6	523.0	523.0	523.0	524.1	525.1	525.7	526.1	526.9	527.1	526.3
17.5°	536.4	536.4	536.2	536.4	537.6	539.2	539.8	540.6	541.4	542.0	541.0
20°	551.9	552.3	552.3	552.7	554.3	556.1	556.1	556.5	556.1	556.5	555.9
22.5°	570.8	572.0	572.0	572.2	573.7	575.9	575.3	575.9	574.9	575.7	574.9
25°	595.4	597.1	596.8	596.8	597.9	599.3	599.5	600.7	600.5	601.5	600.9
27.5°	623.1	625.9	626.7	626.5	627.3	628.7	629.1	630.5	629.7	630.5	630.1
30°	656.5	657.7	659.2	659.8	660.8	662.2	662.2	662.4	661.4	662.6	663.2
32.5°	691.0	693.2	694.8	698.3	700.1	701.1	700.9	701.3	700.3	701.9	703.1
35°	736.6	738.2	740.8	743.6	745.9	745.7	745.1	745.3	745.3	746.7	747.9
37.5°	791.6	792.0	795.3	799.3	800.5	799.3	795.7	794.9	793.2	794.9	796.9
40°	849.7	851.1	857.8	860.4	861.0	858.8	853.7	850.7	846.7	848.9	851.7
42.5°	910.6	913.4	919.5	924.1	926.1	924.7	917.5	913.0	907.8	909.0	911.8
45°	978.1	981.4	990.2	994.5	998.3	996.1	989.2	982.2	974.1	974.7	979.0
47.5°	1053.4	1056.8	1068.1	1075.5	1077.4	1077.0	1069.3	1059.8	1048.7	1048.3	1052.1
50°	1138.0	1141.3	1155.4	1166.7	1172.5	1171.9	1162.8	1149.3	1135.8	1136.0	1140.7
52.5°	1220.5	1224.6	1239.3	1258.8	1270.1	1278.2	1272.7	1260.0	1243.5	1243.9	1248.3
55°	1297.9	1304.8	1321.7	1348.0	1369.1	1391.9	1398.4	1398.0	1388.1	1390.9	1395.3
57.5°	1335.4	1345.7	1371.7	1413.3	1456.2	1502.6	1541.9	1571.2	1583.7	1602.6	1598.2
60°	1264.3	1280.8	1319.1	1380.4	1465.1	1561.9	1665.7	1767.0	1853.5	1918.8	1881.3
62.5°	1035.2	1056.6	1103.0	1181.6	1309.8	1464.7	1663.3	1902.9	2164.0	2321.5	2209.1
65°	647.7	670.0	717.2	801.3	951.3	1143.9	1413.3	1810.5	2298.3	2535.8	2306.9
67.5°	252.5	264.6	290.2	344.0	456.7	628.1	898.5	1349.2	1932.7	2140.8	1896.8
70°	126.6	127.8	132.5	142.4	166.6	216.4	329.3	625.5	1108.4	1338.7	1068.5
72.5°	91.5	91.7	94.0	98.4	106.1	117.2	138.7	191.4	360.5	550.9	337.9
75°	70.0	70.8	72.2	74.6	78.8	84.3	92.1	110.3	136.7	158.5	133.3
77.5°	54.0	55.5	56.5	58.7	61.3	65.1	67.3	74.2	86.3	90.9	89.5
80°	41.1	42.5	44.6	46.4	48.2	50.0	49.2	52.4	58.7	62.5	60.5
82.5°	26.2	27.8	34.1	35.7	36.5	37.7	36.3	36.5	39.3	41.7	39.3
85°	16.9	17.9	21.6	23.6	23.8	24.6	24.0	22.6	22.6	20.6	23.2
87.5°	7.7	7.9	9.7	11.5	11.9	10.7	10.5	10.1	8.1	7.7	8.3
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°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	479.1	479.5	479.7	480.3	480.5	480.5	480.7	481.1
5°	482.9	483.5	483.7	484.5	484.7	484.5	484.9	485.1
7.5°	489.6	490.6	491.0	491.8	491.2	492.0	492.2	492.2
10°	499.5	500.5	500.7	501.5	501.1	501.5	501.5	501.1
12.5°	512.6	512.8	512.2	512.8	512.0	512.4	511.8	511.4
15°	527.1	526.5	525.1	525.1	523.9	524.1	523.9	523.7
17.5°	541.2	540.0	539.0	538.6	537.6	537.4	536.8	536.8
20°	556.7	556.1	555.5	554.7	553.7	552.7	552.5	552.9
22.5°	575.3	575.1	575.1	574.7	573.3	572.3	571.8	571.8
25°	600.3	598.5	598.5	598.3	597.7	597.1	596.0	596.6
27.5°	628.5	627.5	628.3	628.1	627.5	627.5	626.7	626.7
30°	663.2	662.8	664.0	663.0	661.0	660.8	660.0	659.0
32.5°	703.3	702.9	704.7	703.5	700.3	698.5	696.9	696.1
35°	747.9	748.1	750.3	749.5	745.9	744.7	742.0	741.6
37.5°	796.7	799.9	803.7	804.5	801.5	800.7	797.7	796.1
40°	854.1	858.2	864.0	865.4	862.2	861.6	857.4	855.3
42.5°	915.2	922.3	929.4	930.6	927.5	924.3	920.3	918.7
45°	983.4	991.9	1001.3	1003.6	998.9	995.1	990.0	990.0
47.5°	1060.0	1070.7	1081.2	1087.8	1083.4	1079.4	1073.3	1069.3
50°	1150.5	1165.1	1178.8	1185.6	1178.6	1171.1	1160.4	1156.8
52.5°	1263.9	1279.8	1291.7	1288.1	1277.4	1266.9	1255.2	1250.4
55°	1408.8	1414.1	1414.1	1400.6	1379.2	1361.5	1343.1	1336.9
57.5°	1589.9	1569.2	1537.5	1497.2	1446.6	1402.6	1372.8	1358.8
60°	1802.8	1703.6	1591.5	1481.4	1390.9	1316.3	1272.1	1251.8
62.5°	1944.6	1685.1	1460.5	1283.8	1153.6	1063.8	1002.7	978.8
65°	1817.4	1405.4	1104.6	893.1	751.3	659.8	599.3	577.1
67.5°	1331.2	880.6	588.2	421.6	308.9	246.4	221.6	211.3
70°	597.5	310.1	190.1	148.4	128.0	117.4	112.9	111.3
72.5°	180.1	130.3	109.9	99.2	91.1	85.9	82.1	81.7
75°	108.7	90.5	80.3	74.0	68.8	64.7	62.7	62.1
77.5°	76.0	66.5	61.7	57.1	53.2	50.0	48.2	46.8
80°	53.4	48.8	46.6	44.0	41.5	38.5	35.9	34.7
82.5°	35.7	34.7	34.7	33.1	30.9	28.2	23.0	21.8
85°	23.0	22.8	23.2	22.6	21.0	18.1	14.9	14.1
87.5°	10.7	10.9	12.1	11.9	11.5	9.5	7.5	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)