

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: P193419

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4328 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - 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

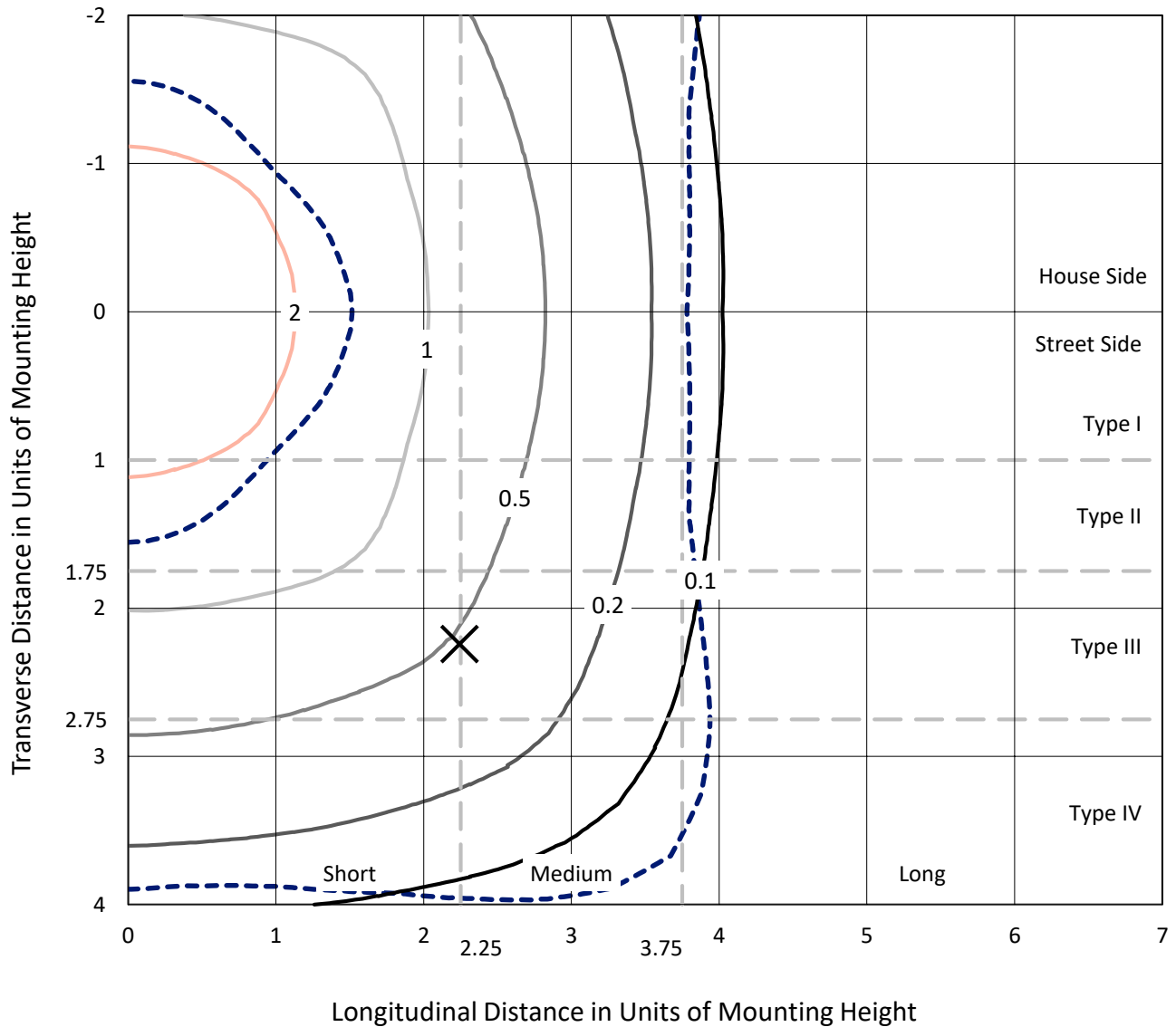


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

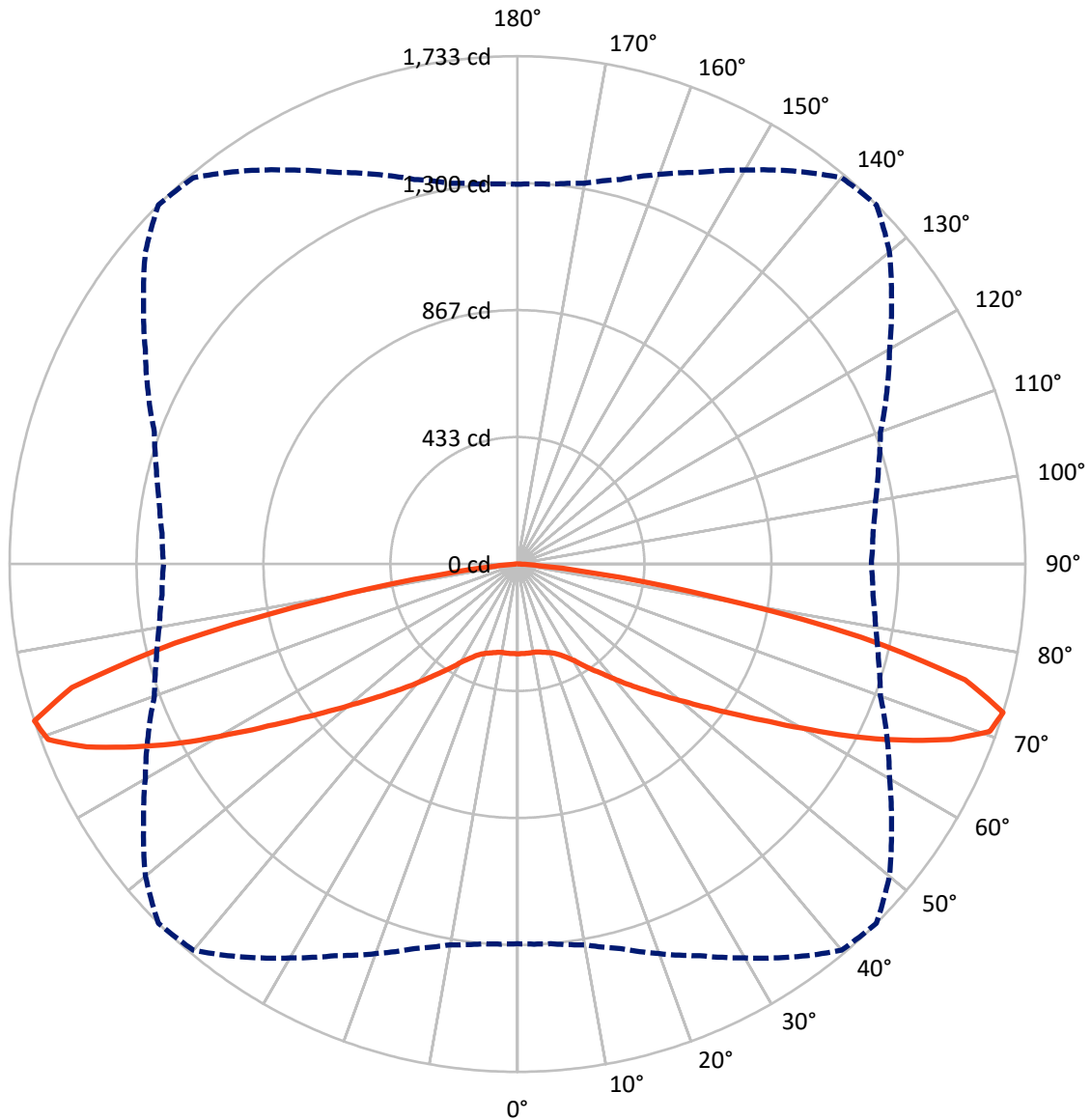


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.0	0.0	2164.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2164.0	0.0	2164.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4328.0	0.0	4328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	0.7
10°-20°	88.9	2.1
20°-30°	162.4	3.8
30°-40°	280.1	6.5
40°-50°	478.8	11.1
50°-60°	776.0	17.9
60°-70°	1287.3	29.7
70°-80°	1133.9	26.2
80°-90°	91.4	2.1
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°	4328.0	100.0
0°-180°	4328.0	100.0



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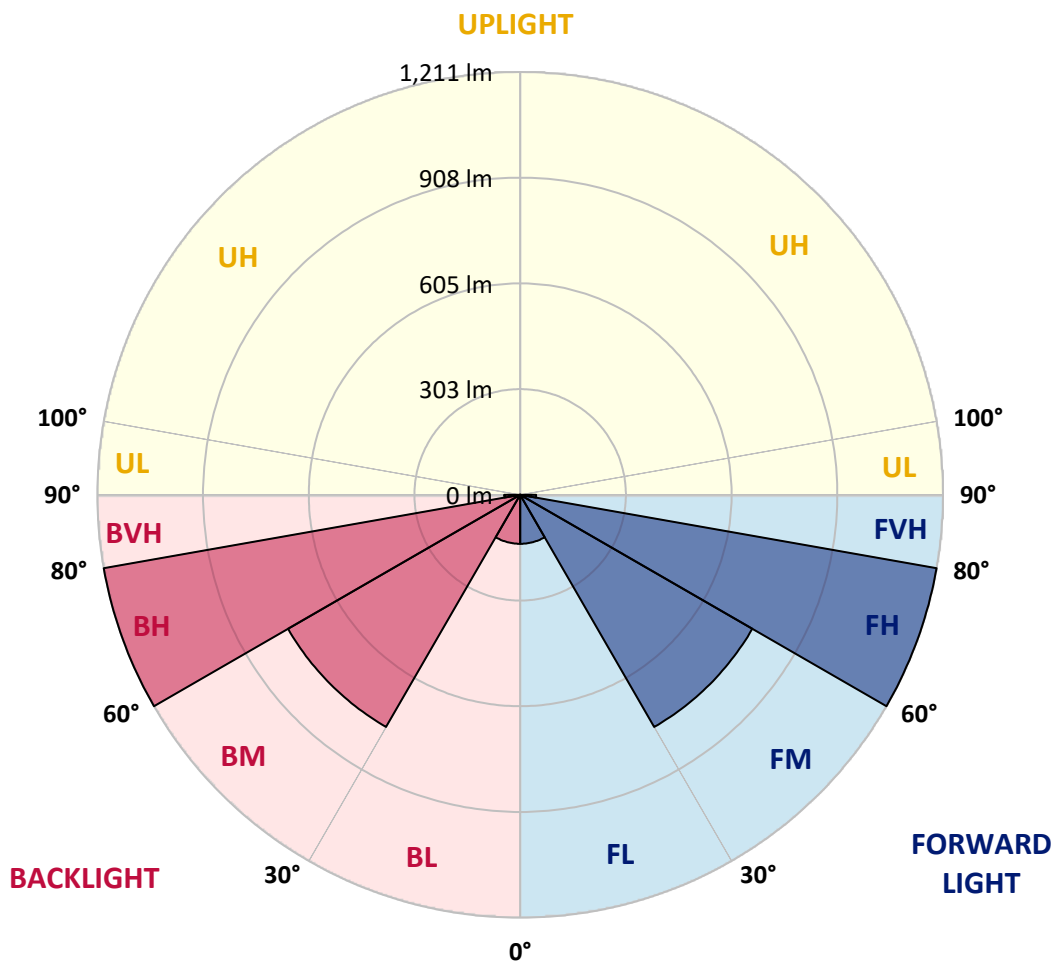
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.3	3.2			
FM	(30°-60°)	767.4	17.7			
FH	(60°-80°)	1210.6	28.0			G1/1800
FVH	(80°-90°)	45.7	1.1			G1/100
BL	(0°-30°)	140.3	3.2	B1/500		
BM	(30°-60°)	767.4	17.7	B1/1000		
BH	(60°-80°)	1210.6	28.0	B3/2500		G1/1800
BVH	(80°-90°)	45.7	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5
2.5°	306.5	306.7	306.9	306.7	306.7	306.5	306.3	306.5	306.3	305.9	306.1
5°	307.5	307.9	307.9	307.5	307.7	307.5	307.1	307.3	306.9	306.3	306.3
7.5°	308.7	308.9	308.9	308.5	308.7	308.3	307.9	307.7	307.3	306.5	305.9
10°	310.5	310.7	310.5	310.1	310.1	309.5	308.5	308.1	307.3	306.1	305.5
12.5°	312.4	312.6	312.4	312.0	311.8	310.9	310.1	309.5	308.9	307.9	306.9
15°	315.2	315.6	315.2	314.4	313.8	313.0	312.6	312.8	313.0	312.2	311.3
17.5°	320.4	320.6	320.0	318.2	317.4	316.6	316.6	317.0	317.6	317.2	316.2
20°	329.9	329.3	327.9	325.7	324.8	323.4	323.2	323.4	323.4	323.2	322.4
22.5°	341.8	341.4	339.6	336.9	335.5	334.7	333.5	332.5	332.3	331.7	330.9
25°	356.1	355.9	353.7	351.4	350.4	349.4	348.4	347.0	345.8	344.4	343.6
27.5°	374.4	373.6	370.4	369.2	367.8	367.2	365.8	364.3	363.3	361.5	360.5
30°	394.4	394.4	391.8	391.4	391.4	390.1	388.5	385.7	383.9	382.1	381.5
32.5°	414.5	414.7	412.1	412.9	413.5	414.5	414.9	413.9	412.7	412.5	411.3
35°	443.5	442.7	440.1	440.7	440.5	440.3	440.3	442.5	442.9	443.3	440.9
37.5°	479.4	479.4	476.8	476.8	475.6	474.4	472.8	474.2	476.4	477.0	475.4
40°	520.5	521.9	518.7	518.5	518.9	515.1	513.3	515.5	516.9	519.3	517.5
42.5°	568.9	567.9	564.7	564.3	562.2	561.0	559.4	561.2	563.4	564.9	565.5
45°	615.4	614.6	611.0	611.0	608.8	607.8	608.6	611.6	612.6	614.8	616.9
47.5°	661.2	660.2	657.8	658.8	659.0	660.8	663.4	666.2	669.0	671.9	672.9
50°	708.1	708.3	705.7	708.1	711.0	716.0	723.0	727.5	733.3	737.0	738.2
52.5°	750.7	751.5	754.3	759.9	765.8	775.6	787.5	798.6	808.1	814.5	814.1
55°	802.0	803.1	809.9	819.4	829.1	843.8	861.5	881.2	897.0	906.2	900.4
57.5°	867.5	870.0	877.6	890.5	905.0	924.0	948.3	977.8	1002.4	1014.8	1005.4
60°	957.4	959.0	968.1	982.4	999.9	1023.5	1055.8	1095.5	1130.3	1146.6	1135.8
62.5°	1075.9	1078.9	1086.2	1100.7	1118.6	1145.4	1184.9	1234.5	1277.8	1300.4	1276.2
65°	1217.4	1227.0	1233.1	1247.8	1264.5	1292.9	1334.1	1387.3	1433.8	1448.7	1420.7
67.5°	1357.6	1365.9	1376.6	1393.5	1410.4	1442.3	1480.6	1532.2	1583.3	1596.8	1553.3
70°	1418.9	1423.7	1440.3	1463.4	1495.7	1533.4	1577.7	1635.7	1698.8	1709.9	1654.7
72.5°	1296.0	1300.8	1319.5	1358.6	1414.9	1474.9	1552.1	1637.3	1720.6	1733.1	1657.1
75°	980.2	972.5	1000.1	1051.9	1127.9	1211.5	1319.5	1441.5	1562.0	1577.7	1487.0
77.5°	506.6	505.6	526.4	590.7	681.5	776.5	895.4	1033.4	1151.3	1199.0	1125.1
80°	142.7	144.3	154.2	186.2	239.2	307.9	400.8	530.0	626.5	675.7	634.4
82.5°	56.0	60.3	64.1	70.1	77.0	87.1	116.3	173.1	232.2	277.5	227.3
85°	20.0	21.4	30.4	35.9	36.5	38.5	43.9	51.2	61.7	73.6	60.5
87.5°	7.5	8.3	9.7	16.1	15.9	14.5	17.7	18.5	13.9	12.7	15.7
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°	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5
2.5°	305.7	305.9	305.9	306.1	306.3	306.3	306.7	306.7
5°	305.9	305.9	305.5	305.7	305.5	305.5	305.7	305.7
7.5°	305.5	305.3	304.9	304.7	304.3	304.3	304.3	304.3
10°	304.9	304.7	304.3	304.1	303.9	303.9	303.9	303.9
12.5°	306.5	305.9	305.5	305.3	305.3	305.3	305.3	305.3
15°	310.7	309.3	308.3	308.3	308.5	308.9	308.9	309.3
17.5°	315.8	314.2	313.2	312.4	312.8	313.4	313.8	314.2
20°	322.0	321.2	319.8	319.0	319.0	319.8	320.2	320.4
22.5°	330.5	329.9	329.3	328.3	328.3	328.7	329.5	329.5
25°	343.2	342.8	342.4	341.6	341.4	341.4	341.8	342.2
27.5°	359.1	359.3	358.9	358.7	358.1	357.9	358.5	358.3
30°	380.3	381.3	382.3	381.5	380.5	379.9	379.3	378.5
32.5°	409.1	407.9	407.1	405.7	404.0	402.4	401.2	399.8
35°	436.3	434.3	433.5	434.7	434.5	433.5	432.1	431.0
37.5°	469.7	469.3	469.7	471.8	471.4	472.4	469.7	469.5
40°	511.7	512.1	514.9	517.5	518.9	520.3	518.7	517.1
42.5°	560.6	560.4	561.4	564.9	567.3	568.9	565.5	565.1
45°	612.2	610.8	611.6	614.6	616.9	618.7	615.0	615.0
47.5°	669.0	666.6	664.0	667.4	668.8	669.9	667.0	666.0
50°	732.3	727.3	721.8	723.1	723.1	722.8	719.0	718.8
52.5°	804.9	795.8	785.7	781.9	779.7	777.3	770.8	767.6
55°	888.5	874.8	858.9	849.2	844.0	837.5	826.6	823.6
57.5°	986.2	964.7	937.3	925.4	913.9	903.2	891.1	887.7
60°	1101.9	1070.3	1034.0	1012.0	999.5	989.1	976.6	976.0
62.5°	1230.9	1181.1	1140.0	1120.2	1111.0	1101.9	1090.0	1091.6
65°	1362.1	1310.1	1271.6	1255.5	1247.0	1239.5	1227.5	1229.3
67.5°	1491.6	1443.7	1401.4	1385.0	1375.4	1365.9	1355.2	1357.0
70°	1584.5	1525.1	1477.5	1440.9	1418.1	1392.3	1375.6	1371.5
72.5°	1557.9	1466.3	1390.7	1318.3	1275.8	1241.2	1217.8	1207.7
75°	1348.2	1223.2	1125.9	1037.0	987.0	946.3	916.7	898.2
77.5°	1001.3	860.7	745.8	643.4	562.4	508.0	469.7	444.8
80°	548.1	416.9	304.7	214.2	157.4	130.8	115.5	108.2
82.5°	170.7	110.2	81.2	70.1	65.1	62.3	57.8	50.4
85°	54.4	47.6	44.3	42.3	40.3	35.1	24.2	22.0
87.5°	21.0	21.6	21.4	20.2	20.6	14.9	11.9	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)