

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: P190829

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190829
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 4333.2 lumens
Efficiency: N/A
Efficacy: 127.4 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

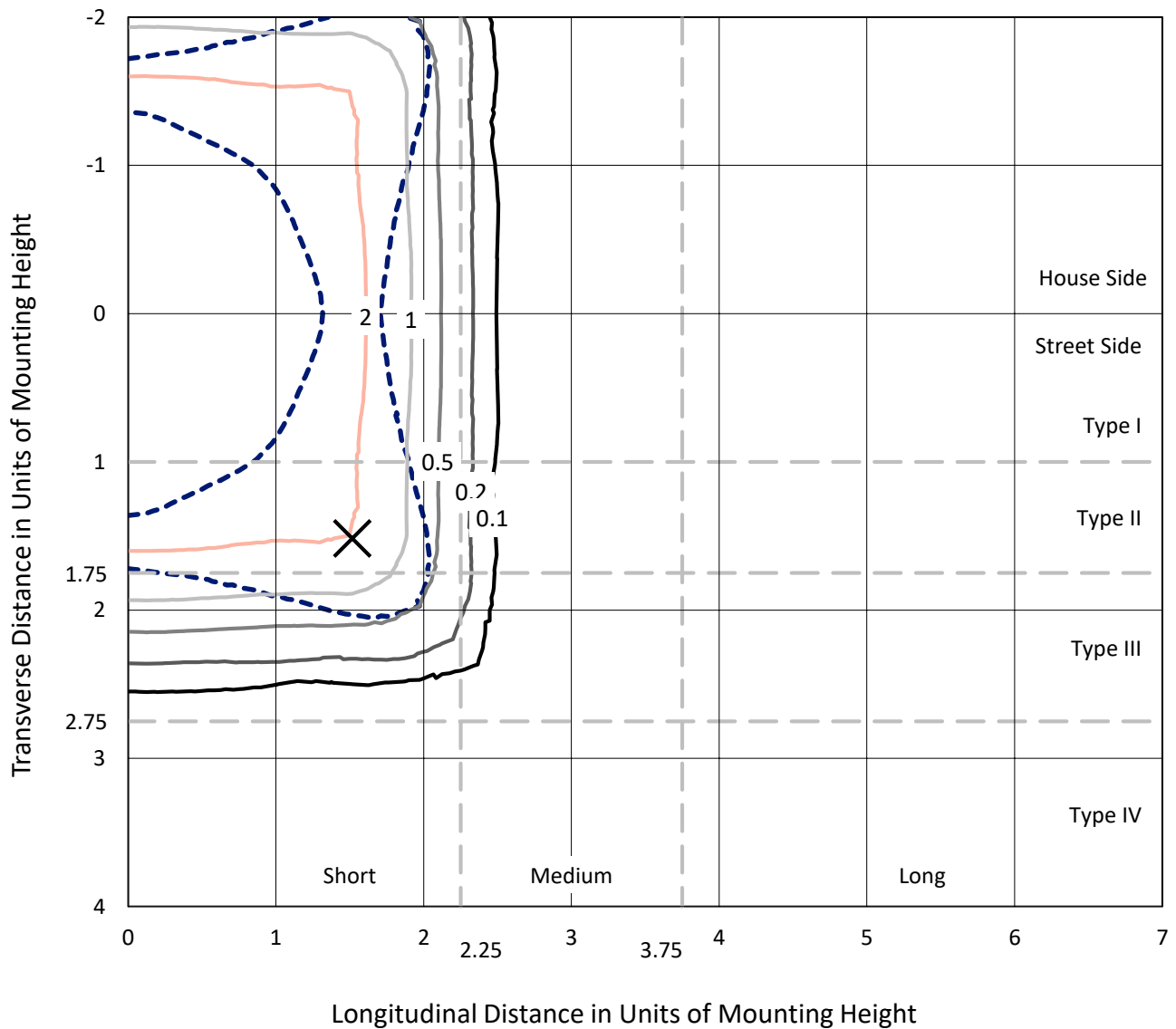
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P190829
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-600

Iso-Footcandle Lines of Horizontal Illumination

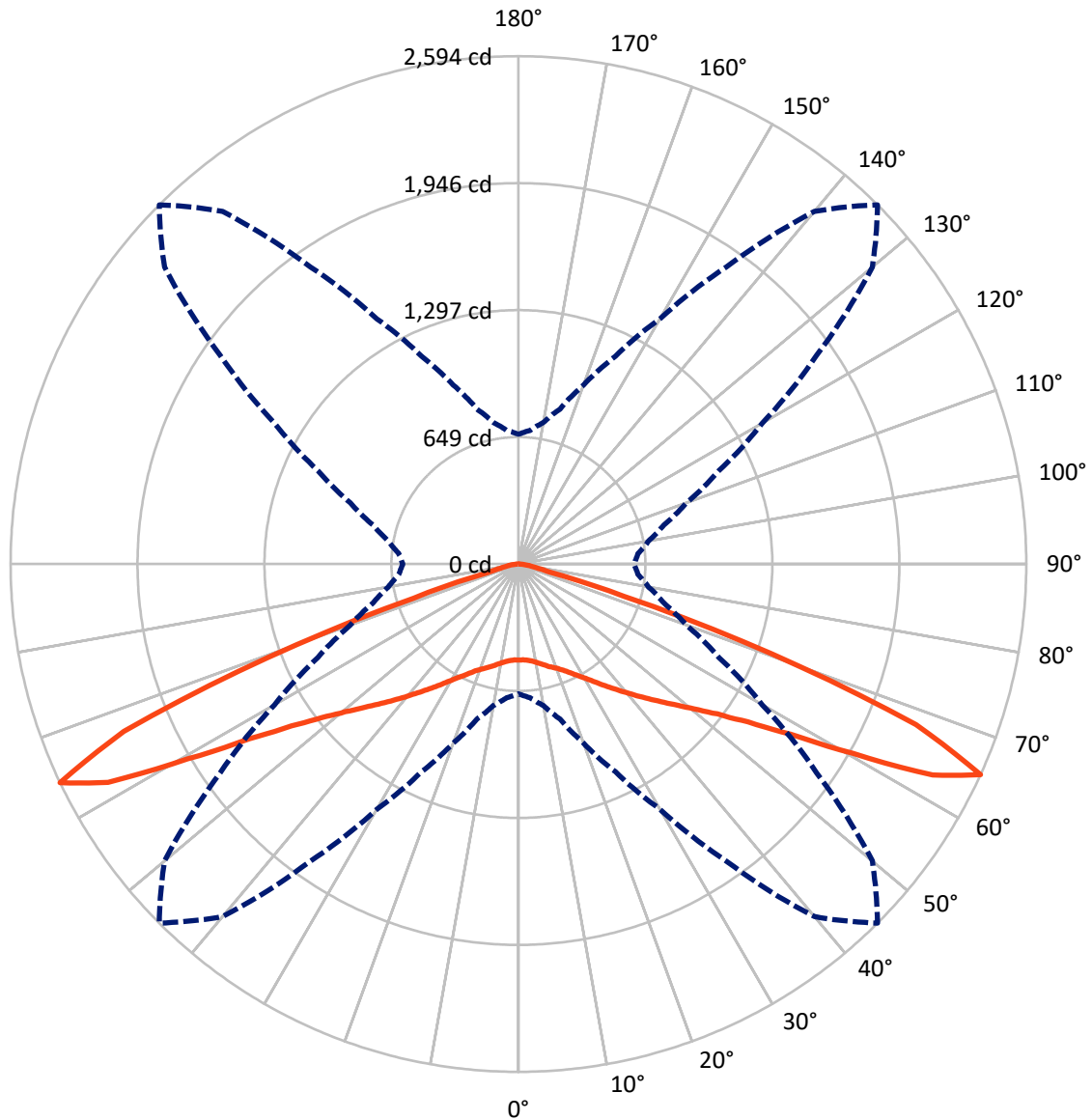
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P190829
CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-600

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	2166.6	0.0	2166.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2166.6	0.0	2166.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4333.2	0.0	4333.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	1.1
10°-20°	153.3	3.5
20°-30°	286.6	6.6
30°-40°	484.7	11.2
40°-50°	792.5	18.3
50°-60°	1260.2	29.1
60°-70°	1139.2	26.3
70°-80°	144.2	3.3
80°-90°	24.8	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°	4333.2	100.0
0°-180°	4333.2	100.0



REPORT NUMBER: P190829

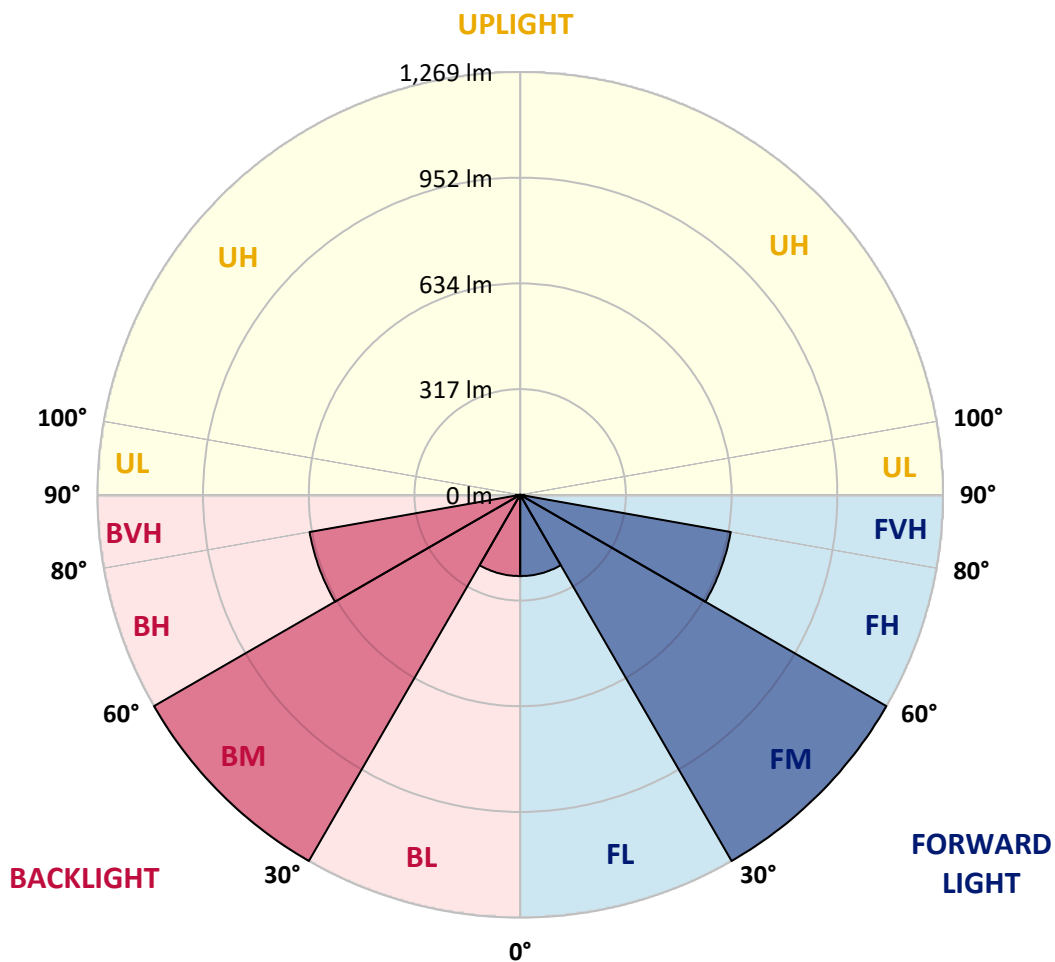
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.8	5.6			
FM	(30°-60°)	1268.7	29.3			
FH	(60°-80°)	641.7	14.8			G0/660
FVH	(80°-90°)	12.4	0.3			G1/100
BL	(0°-30°)	243.8	5.6	B1/500		
BM	(30°-60°)	1268.7	29.3	B2/2500		
BH	(60°-80°)	641.7	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





REPORT NUMBER: P190829

CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3
2.5°	490.7	491.1	491.5	491.1	491.5	490.9	490.5	491.1	490.5	489.9	490.3
5°	495.0	495.2	495.2	494.6	495.2	494.8	494.2	495.0	494.4	493.8	494.2
7.5°	502.1	502.9	502.3	501.7	502.1	501.7	501.2	501.5	501.2	500.6	500.8
10°	511.6	512.2	511.8	511.6	512.0	511.8	511.4	511.2	511.4	510.8	510.8
12.5°	523.1	522.9	522.7	522.9	523.5	523.5	523.3	523.5	524.0	524.2	523.8
15°	534.6	535.0	535.0	535.0	536.1	537.2	537.8	538.2	539.0	539.2	538.4
17.5°	548.7	548.7	548.5	548.7	549.9	551.6	552.2	553.0	553.8	554.4	553.4
20°	564.6	565.0	565.0	565.4	567.0	568.9	568.9	569.3	568.9	569.3	568.7
22.5°	583.9	585.1	585.1	585.3	586.9	589.1	588.5	589.1	588.1	588.9	588.1
25°	609.1	610.8	610.5	610.5	611.6	613.1	613.3	614.5	614.3	615.3	614.7
27.5°	637.4	640.3	641.1	640.9	641.7	643.1	643.5	645.0	644.2	645.0	644.6
30°	671.6	672.8	674.3	674.9	676.0	677.4	677.4	677.6	676.6	677.8	678.4
32.5°	706.9	709.1	710.7	714.3	716.2	717.2	717.0	717.4	716.4	718.0	719.2
35°	753.5	755.1	757.8	760.7	763.0	762.8	762.2	762.4	762.4	763.8	765.1
37.5°	809.8	810.2	813.6	817.6	818.9	817.6	814.0	813.1	811.4	813.1	815.2
40°	869.2	870.6	877.5	880.1	880.8	878.5	873.3	870.2	866.1	868.4	871.2
42.5°	931.5	934.4	940.6	945.3	947.4	945.9	938.6	934.0	928.6	929.9	932.7
45°	1000.5	1003.9	1012.9	1017.3	1021.2	1019.0	1011.9	1004.7	996.5	997.1	1001.5
47.5°	1077.6	1081.1	1092.6	1100.2	1102.1	1101.7	1093.8	1084.1	1072.8	1072.4	1076.2
50°	1164.1	1167.5	1181.9	1193.5	1199.4	1198.8	1189.5	1175.7	1161.9	1162.1	1166.9
52.5°	1248.5	1252.7	1267.7	1287.7	1299.2	1307.5	1301.9	1288.9	1272.0	1272.4	1276.9
55°	1327.7	1334.7	1352.0	1378.9	1400.5	1423.8	1430.5	1430.1	1420.0	1422.8	1427.3
57.5°	1366.0	1376.6	1403.2	1445.7	1489.6	1537.1	1577.3	1607.3	1620.0	1639.4	1634.9
60°	1293.3	1310.2	1349.4	1412.1	1498.7	1597.7	1703.9	1807.6	1896.0	1962.8	1924.5
62.5°	1059.0	1080.8	1128.3	1208.7	1339.9	1498.3	1701.5	1946.6	2213.7	2374.8	2259.8
65°	662.6	685.4	733.7	819.7	973.1	1170.2	1445.7	1852.1	2351.0	2594.0	2359.8
67.5°	258.3	270.7	296.9	351.9	467.2	642.5	919.1	1380.2	1977.1	2189.9	1940.3
70°	129.5	130.7	135.5	145.7	170.4	221.4	336.9	639.9	1133.8	1369.4	1093.0
72.5°	93.6	93.8	96.2	100.7	108.5	119.9	141.9	195.8	368.8	563.5	345.7
75°	71.6	72.4	73.9	76.3	80.6	86.2	94.2	112.8	139.8	162.1	136.4
77.5°	55.2	56.8	57.8	60.0	62.7	66.6	68.8	75.9	88.3	93.0	91.6
80°	42.0	43.5	45.6	47.5	49.3	51.1	50.3	53.6	60.0	63.9	61.9
82.5°	26.8	28.4	34.9	36.5	37.3	38.6	37.1	37.3	40.2	42.7	40.2
85°	17.3	18.3	22.1	24.1	24.3	25.2	24.6	23.1	23.1	21.1	23.7
87.5°	7.9	8.1	9.9	11.8	12.2	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



REPORT NUMBER: P190829

CATALOG NUMBER: GLEON-AF-01-LED-E1-5NQ-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3
2.5°	490.1	490.5	490.7	491.3	491.5	491.5	491.7	492.1
5°	494.0	494.6	494.8	495.6	495.8	495.6	496.0	496.2
7.5°	500.8	501.9	502.3	503.1	502.5	503.3	503.5	503.5
10°	511.0	512.0	512.2	513.0	512.6	513.0	513.0	512.6
12.5°	524.4	524.6	524.0	524.6	523.8	524.2	523.5	523.1
15°	539.2	538.6	537.2	537.2	535.9	536.1	535.9	535.7
17.5°	553.6	552.4	551.4	551.0	549.9	549.7	549.1	549.1
20°	569.5	568.9	568.2	567.4	566.4	565.4	565.2	565.6
22.5°	588.5	588.3	588.3	587.9	586.5	585.4	584.9	584.9
25°	614.1	612.2	612.2	612.0	611.4	610.8	609.7	610.3
27.5°	642.9	641.9	642.7	642.5	641.9	641.9	641.1	641.1
30°	678.4	678.0	679.2	678.2	676.2	676.0	675.1	674.1
32.5°	719.4	719.0	720.9	719.6	716.4	714.5	712.9	712.1
35°	765.1	765.3	767.5	766.7	763.0	761.8	759.0	758.6
37.5°	815.0	818.3	822.1	823.0	819.9	819.1	816.0	814.4
40°	873.7	877.9	883.8	885.3	882.0	881.4	877.1	874.9
42.5°	936.2	943.5	950.7	952.0	948.8	945.5	941.4	939.8
45°	1006.0	1014.7	1024.3	1026.6	1021.8	1017.9	1012.7	1012.7
47.5°	1084.3	1095.3	1106.0	1112.8	1108.3	1104.2	1097.9	1093.8
50°	1176.9	1191.8	1205.9	1212.8	1205.6	1198.0	1187.0	1183.3
52.5°	1292.9	1309.2	1321.3	1317.7	1306.7	1296.0	1284.0	1279.1
55°	1441.1	1446.6	1446.6	1432.7	1410.9	1392.7	1373.9	1367.6
57.5°	1626.4	1605.2	1572.8	1531.6	1479.8	1434.8	1404.3	1390.0
60°	1844.2	1742.7	1628.0	1515.4	1422.8	1346.5	1301.3	1280.5
62.5°	1989.2	1723.8	1494.0	1313.3	1180.1	1088.2	1025.7	1001.3
65°	1859.1	1437.7	1130.0	913.6	768.5	674.9	613.1	590.3
67.5°	1361.8	900.8	601.7	431.3	316.0	252.1	226.7	216.1
70°	611.2	317.2	194.5	151.8	130.9	120.1	115.5	113.9
72.5°	184.2	133.3	112.4	101.5	93.2	87.9	84.0	83.6
75°	111.2	92.6	82.1	75.7	70.4	66.2	64.1	63.5
77.5°	77.7	68.0	63.1	58.4	54.4	51.1	49.3	47.9
80°	54.6	49.9	47.7	45.0	42.5	39.4	36.7	35.5
82.5°	36.5	35.5	35.5	33.9	31.6	28.8	23.5	22.3
85°	23.5	23.3	23.7	23.1	21.5	18.5	15.2	14.4
87.5°	10.9	11.2	12.4	12.2	11.8	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)