

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: P526217

Luminaire Tested: **GALN-SA1A-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2069 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

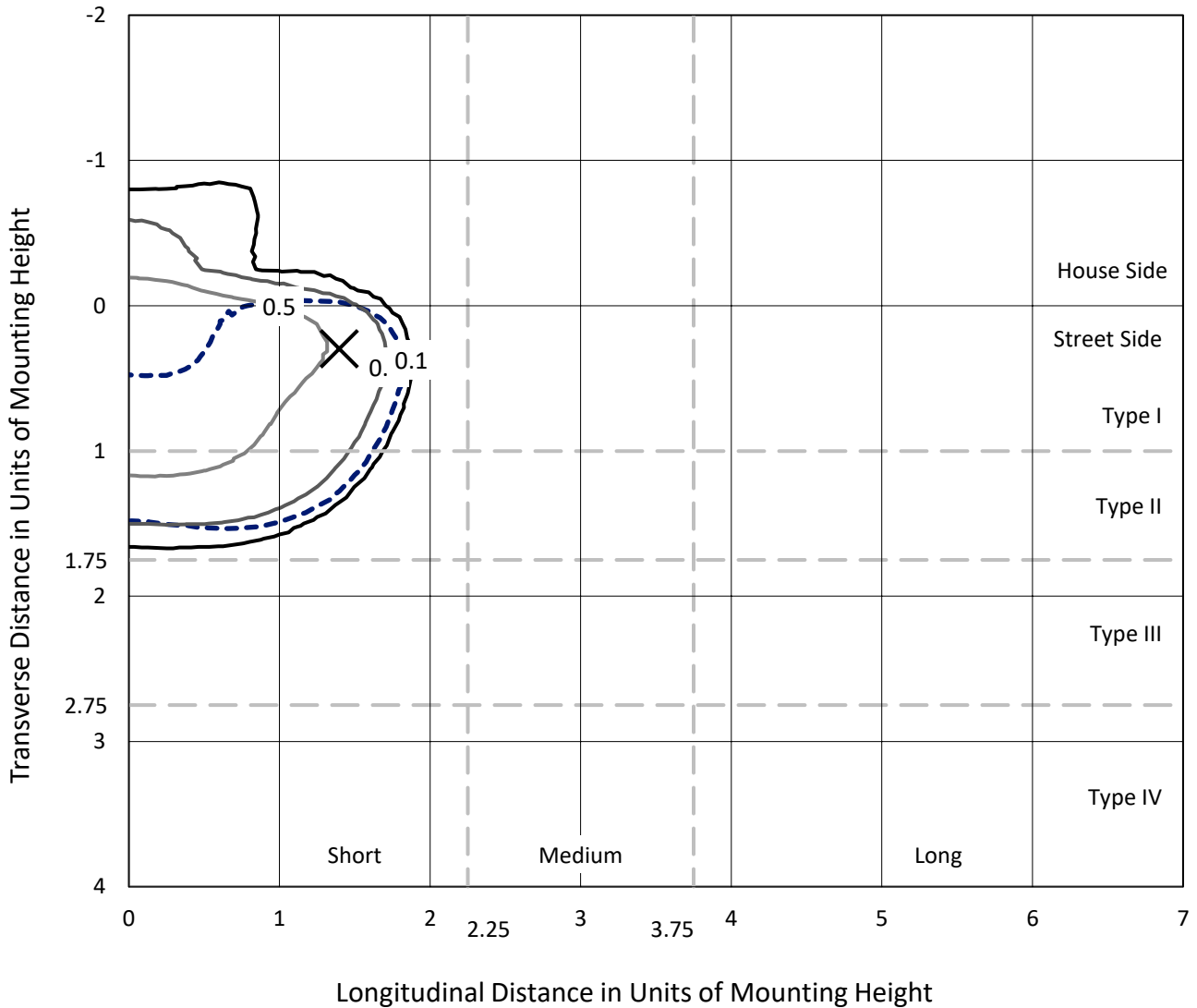
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

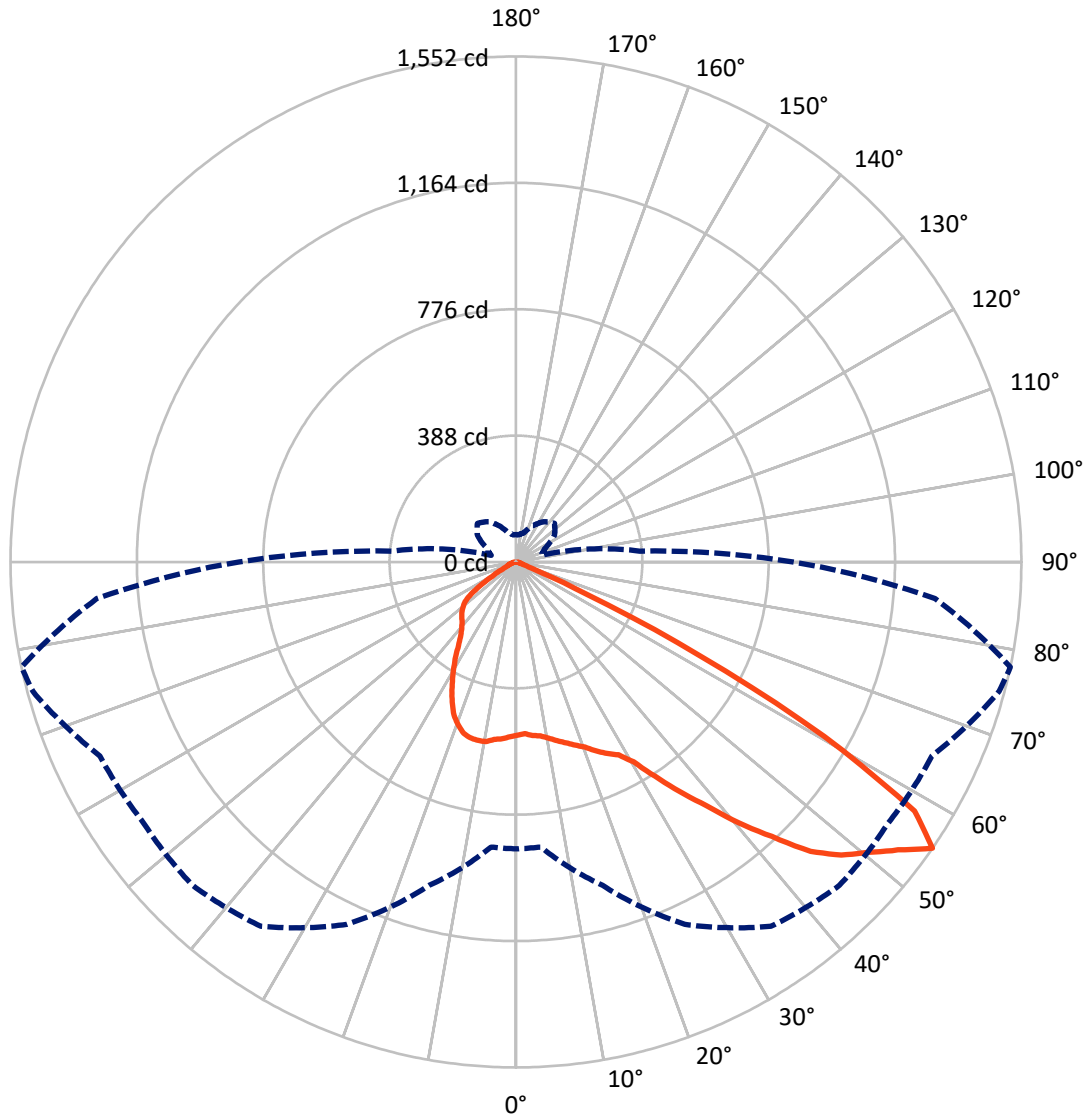
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	384.3	0.0	384.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	1684.7	0.0	1684.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	2069.0	0.0	2069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	2.3
10°-20°	125.5	6.1
20°-30°	220.0	10.6
30°-40°	362.8	17.5
40°-50°	527.9	25.5
50°-60°	598.2	28.9
60°-70°	171.0	8.3
70°-80°	13.3	0.6
80°-90°	2.8	0.1
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°	2069.0	100.0
0°-180°	2069.0	100.0

Coefficient of Utilization



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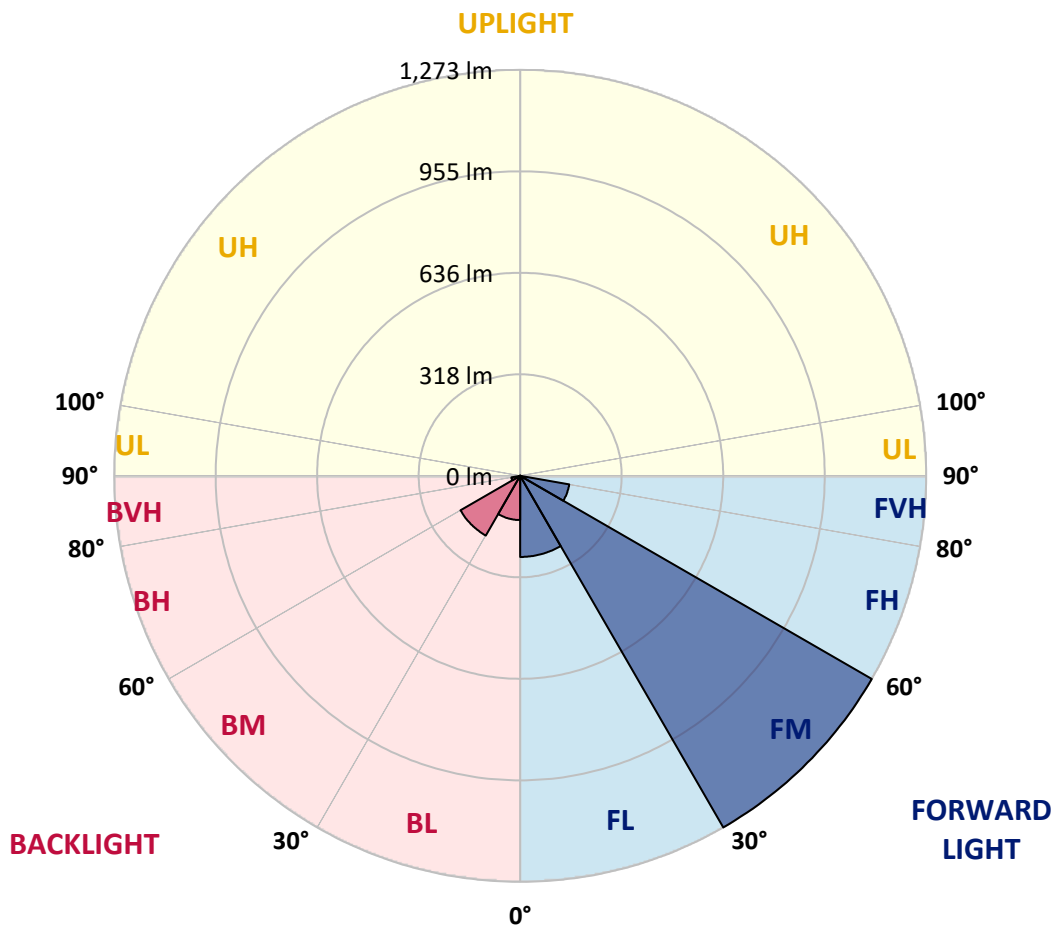
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.3	12.3			
FM (30°-60°)	1272.7	61.5			
FH (60°-80°)	156.3	7.6			G0/660
FVH (80°-90°)	1.3	0.1			G0/10
BL (0°-30°)	138.7	6.7	B1/500		
BM (30°-60°)	216.2	10.4	B0/220		
BH (60°-80°)	28.1	1.4	B0/110		G0/110
BVH (80°-90°)	1.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9
2.5°	500.1	504.9	505.7	511.6	511.2	521.2	524.2	524.5	531.2	527.9	536.4
5°	486.1	483.5	482.4	492.7	495.7	504.6	512.0	516.4	530.1	534.9	543.8
7.5°	473.5	473.5	474.2	483.5	482.4	493.8	501.6	515.3	535.3	539.3	550.1
10°	461.3	456.8	462.4	472.0	480.2	485.3	501.6	514.6	537.9	549.7	564.5
12.5°	455.0	457.2	458.0	465.0	473.9	489.4	498.3	519.7	556.4	563.4	579.3
15°	494.6	490.1	479.4	473.1	480.5	487.9	510.1	531.9	566.0	576.0	593.7
17.5°	540.4	536.8	527.9	510.9	494.2	507.9	525.3	545.3	576.3	591.1	617.4
20°	600.4	594.5	585.6	552.3	537.9	523.1	541.6	565.2	593.3	606.7	633.7
22.5°	671.8	671.8	651.8	611.5	581.5	567.5	575.2	588.9	612.2	630.3	657.0
25°	746.1	743.9	725.8	684.0	633.3	616.7	625.5	635.1	641.4	651.4	669.2
27.5°	831.2	818.3	795.3	749.1	704.3	672.1	681.8	673.2	665.5	670.7	696.2
30°	888.9	897.0	867.8	823.4	781.3	745.4	747.2	739.8	704.3	711.7	726.9
32.5°	948.8	954.0	937.7	913.3	871.2	829.4	814.2	807.9	781.3	784.6	769.8
35°	998.8	1008.8	994.3	983.6	971.4	937.7	895.9	916.3	873.4	865.2	826.8
37.5°	1044.6	1041.7	1058.7	1047.6	1045.0	1021.3	975.5	979.5	950.7	948.8	904.4
40°	1085.7	1086.4	1109.8	1114.9	1104.6	1062.4	995.8	1028.0	1051.3	1053.5	996.6
42.5°	1119.7	1129.7	1149.7	1191.5	1176.0	1105.7	1016.9	1052.0	1138.6	1152.3	1083.9
45°	1149.3	1169.7	1194.5	1231.8	1222.9	1167.1	1069.4	1101.6	1231.8	1267.7	1166.0
47.5°	1151.2	1177.8	1204.8	1260.3	1271.4	1200.0	1123.8	1180.0	1305.8	1344.6	1225.9
50°	1143.8	1157.8	1211.8	1272.1	1297.3	1253.6	1200.0	1245.9	1377.6	1402.0	1256.2
52.5°	1056.1	1066.8	1175.2	1283.2	1343.9	1314.3	1301.0	1337.6	1450.8	1468.9	1284.7
55°	880.4	878.6	1027.6	1227.4	1365.4	1404.2	1396.1	1409.0	1535.5	1551.8	1291.8
57.5°	602.2	635.9	764.6	1022.1	1234.0	1383.1	1391.6	1370.2	1436.8	1443.0	1126.0
60°	324.8	338.8	442.4	682.1	939.6	1127.1	1149.3	1110.5	1105.3	1087.6	803.8
62.5°	129.1	136.1	194.9	337.7	512.0	685.1	732.8	716.9	682.9	636.3	416.2
65°	61.4	65.8	96.9	158.0	227.1	285.6	333.3	348.1	256.7	231.2	137.2
67.5°	41.8	45.1	70.7	90.3	81.0	84.7	110.2	102.5	60.3	51.4	38.1
70°	31.8	34.0	56.6	61.4	36.3	25.5	28.5	26.6	24.8	25.2	24.8
72.5°	22.6	24.4	41.4	36.3	15.9	11.8	15.2	18.1	18.1	18.1	17.8
75°	13.7	15.5	24.0	14.1	6.3	6.3	9.6	12.2	12.9	13.3	12.6
77.5°	7.0	8.9	8.1	4.1	4.1	4.8	7.0	8.5	9.2	9.2	8.9
80°	1.5	1.5	1.5	2.2	4.1	5.2	7.0	7.8	8.9	8.9	8.1
82.5°	0.0	0.4	1.1	2.2	3.7	4.8	6.7	7.8	8.9	9.2	8.5
85°	0.0	0.4	0.7	1.5	2.6	3.0	2.6	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9
2.5°	537.1	538.2	536.4	536.0	534.5	539.0	528.2	525.7	532.3	526.0	527.5
5°	544.1	546.7	543.4	537.9	529.7	517.1	506.4	492.4	485.7	480.9	480.2
7.5°	549.3	551.2	547.8	530.1	505.7	473.9	450.2	432.8	419.1	415.0	408.4
10°	570.4	570.8	554.1	514.9	467.2	425.4	389.2	362.5	348.8	340.3	336.6
12.5°	584.5	583.7	550.1	485.0	421.3	365.8	324.4	292.2	279.7	275.6	273.0
15°	602.2	598.2	540.4	454.3	362.1	302.2	264.9	242.7	241.6	239.0	241.6
17.5°	616.3	604.8	526.4	398.4	305.6	249.0	224.5	226.0	229.0	231.6	231.9
20°	639.2	615.5	494.2	349.6	253.0	213.4	213.1	219.7	227.1	230.1	233.0
22.5°	656.6	620.0	459.8	297.4	210.1	199.0	205.3	215.3	220.8	223.8	228.2
25°	662.9	607.8	413.9	245.3	189.4	192.4	202.0	208.6	215.7	219.0	217.1
27.5°	669.2	601.5	359.2	202.0	178.3	187.9	196.1	202.7	204.9	209.4	212.3
30°	684.3	579.7	310.0	174.6	172.8	185.0	190.9	193.1	199.0	201.6	201.6
32.5°	696.6	571.2	257.8	161.7	172.0	186.4	187.2	187.2	187.9	186.1	185.3
35°	721.7	541.9	211.2	153.9	171.6	186.8	188.7	182.4	165.4	158.7	156.8
37.5°	752.8	523.1	176.8	152.0	174.2	191.2	194.2	170.5	148.3	137.6	135.8
40°	790.5	509.7	154.3	151.3	180.1	201.6	192.7	161.3	132.4	116.9	116.2
42.5°	834.5	497.5	139.1	150.9	187.5	212.3	191.2	153.5	116.2	105.8	107.3
45°	869.7	490.9	128.7	148.3	190.1	218.6	192.4	139.8	109.5	102.8	103.6
47.5°	897.0	476.8	120.2	143.9	189.8	220.8	182.4	134.3	106.2	108.0	109.9
50°	897.8	458.0	109.5	134.3	184.2	216.8	170.9	129.1	105.4	113.2	116.9
52.5°	887.8	431.3	98.0	120.6	171.3	202.7	160.5	126.9	102.1	101.4	105.8
55°	852.3	381.4	78.8	97.7	144.6	167.2	151.3	122.8	92.1	83.6	84.3
57.5°	688.8	273.4	58.1	69.9	102.5	122.4	136.5	121.0	82.9	71.0	71.4
60°	426.5	155.0	42.5	47.7	63.3	74.4	110.6	112.5	74.0	59.9	59.2
62.5°	219.0	76.6	32.9	33.7	38.8	43.7	75.8	94.3	67.0	57.0	57.0
65°	73.2	37.7	28.9	25.9	25.9	27.0	45.9	65.5	56.6	47.7	47.7
67.5°	31.4	28.1	25.2	22.6	20.7	19.6	25.9	38.1	42.2	36.3	34.8
70°	24.4	23.7	21.8	18.9	16.3	14.8	15.2	19.6	24.0	23.3	22.6
72.5°	18.1	18.1	17.4	14.8	12.6	10.7	10.0	10.4	11.5	11.8	12.2
75°	12.6	12.9	12.9	11.5	9.2	7.8	6.7	5.5	4.4	3.7	3.3
77.5°	8.5	8.9	9.6	8.5	7.0	5.2	4.1	3.0	1.8	0.7	0.7
80°	7.4	8.5	9.2	8.5	7.4	5.5	4.1	2.2	1.1	0.0	0.0
82.5°	7.8	8.5	9.6	8.1	7.0	5.2	4.1	2.6	1.1	0.4	0.0
85°	1.8	1.8	2.2	2.6	3.3	3.7	3.0	1.8	1.1	0.4	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)