

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: P526439

Luminaire Tested: **GALN-SA1B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2475 lumens
Efficiency: N/A
Efficacy: 56.2 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

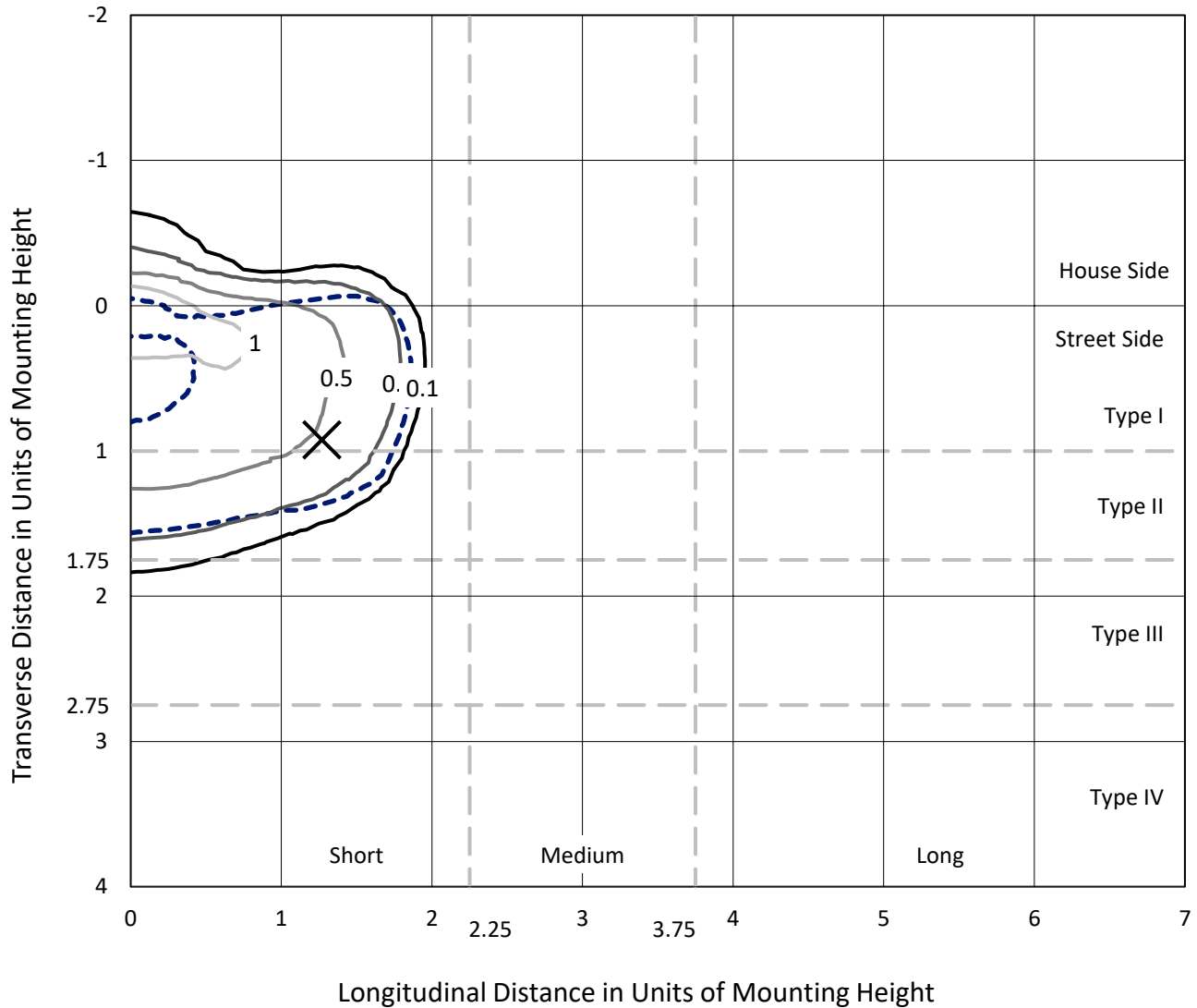
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

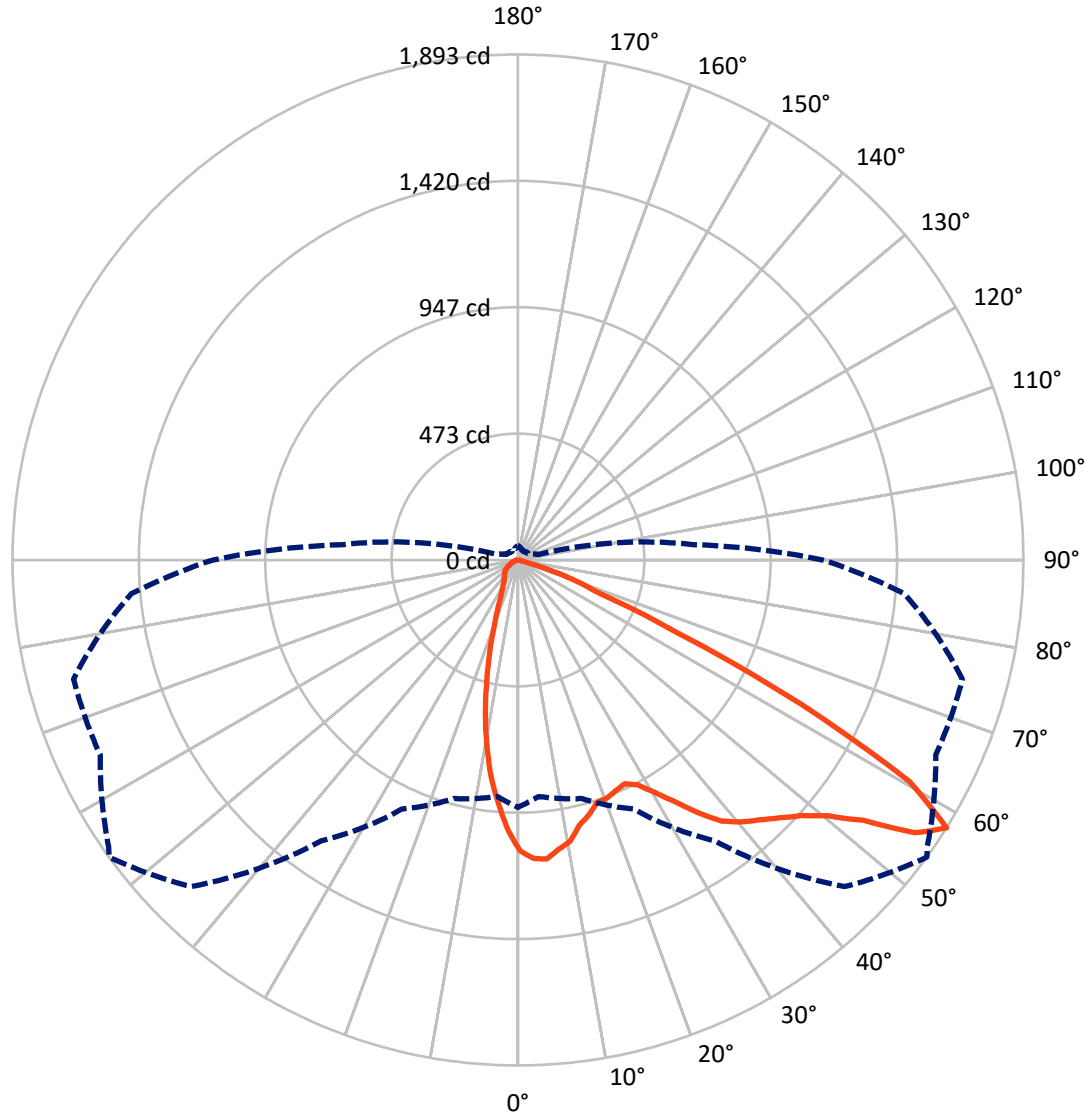
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	349.8	0.0	349.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2125.2	0.0	2125.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	2475.0	0.0	2475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.7
10°-20°	194.8	7.9
20°-30°	258.1	10.4
30°-40°	375.1	15.2
40°-50°	556.3	22.5
50°-60°	695.6	28.1
60°-70°	274.4	11.1
70°-80°	27.3	1.1
80°-90°	2.1	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°	2475.0	100.0
0°-180°	2475.0	100.0

Coefficient of Utilization



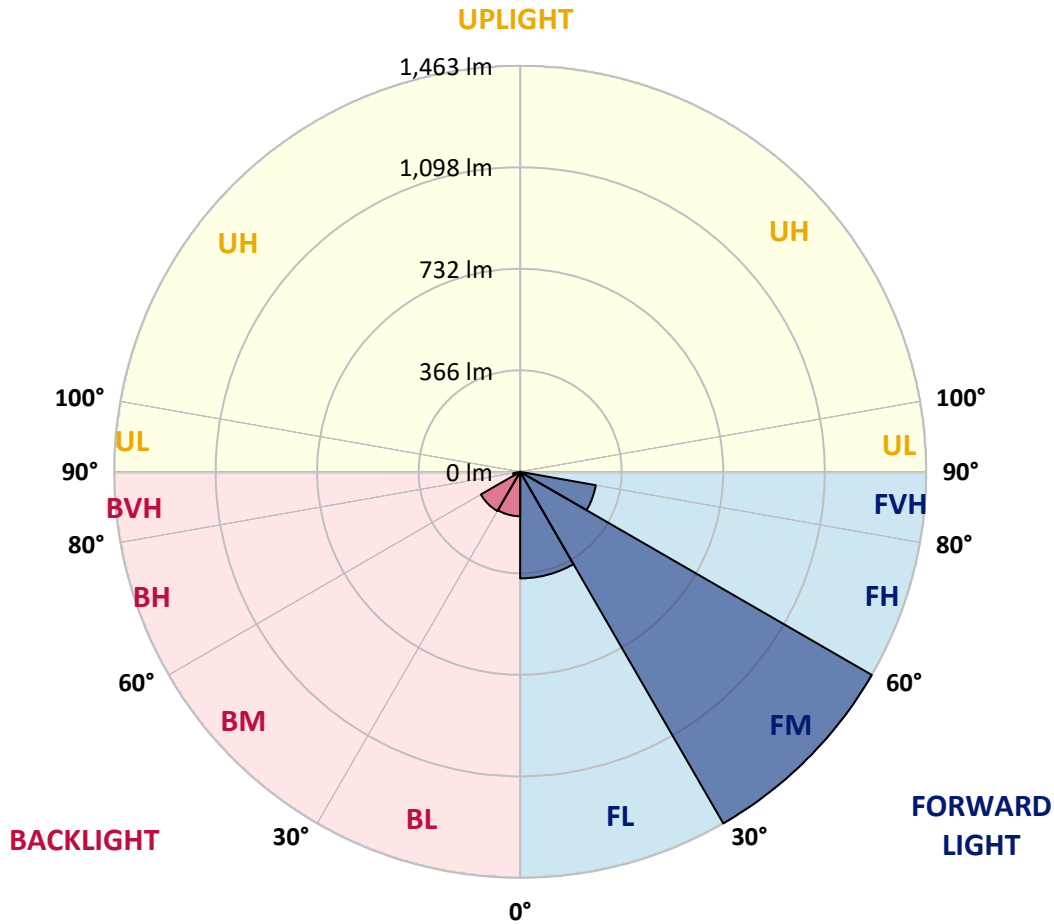
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.2	15.5			
FM (30°-60°)	1463.5	59.1			
FH (60°-80°)	276.6	11.2			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	160.0	6.5	B1/500		
BM (30°-60°)	163.6	6.6	B0/220		
BH (60°-80°)	25.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			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°	54°	55°	65°	75°	85°
0°	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1153.8	1141.8	1142.7	1138.6	1133.1	1137.2	1119.3	1123.4	1122.9	1098.6	1082.4
5°	1124.8	1137.7	1124.3	1135.4	1124.8	1136.3	1125.2	1117.0	1103.6	1085.7	1055.8
7.5°	1075.5	1063.1	1066.8	1080.6	1082.9	1108.7	1094.9	1105.5	1099.9	1064.5	1023.5
10°	976.6	973.8	992.2	1010.7	1033.2	1060.8	1071.4	1065.4	1061.3	1047.9	993.2
12.5°	900.7	908.5	908.0	938.4	976.6	992.2	1019.9	1018.9	1041.9	1017.1	964.6
15°	828.4	832.5	851.9	870.7	913.1	957.7	991.8	996.4	1024.0	1006.5	942.5
17.5°	784.2	778.2	793.4	816.0	859.2	917.7	955.4	966.5	1004.2	1000.5	917.2
20°	740.5	740.5	752.9	779.6	819.2	885.0	952.2	949.0	1004.2	993.6	890.1
22.5°	725.8	733.1	736.4	756.6	803.6	860.2	938.4	944.4	1012.0	990.4	878.1
25°	746.0	736.4	737.3	753.4	797.6	848.2	928.3	941.6	1026.3	1006.5	868.4
27.5°	749.2	758.9	761.7	772.7	802.2	851.9	953.6	980.7	1061.7	1044.2	871.2
30°	777.3	787.0	786.5	805.4	825.6	881.8	1010.2	1015.7	1134.9	1091.7	888.2
32.5°	811.4	821.5	824.7	846.8	862.9	936.6	1079.2	1093.5	1205.3	1166.2	932.9
35°	853.7	850.0	864.8	886.9	921.4	1016.6	1163.4	1187.4	1281.3	1262.9	978.9
37.5°	906.6	902.0	916.3	952.2	999.1	1111.4	1241.2	1256.9	1336.5	1352.6	1064.0
40°	943.9	945.8	989.0	1037.3	1087.0	1201.6	1290.5	1305.7	1375.1	1436.4	1128.5
42.5°	1006.0	1017.6	1069.6	1128.5	1180.5	1269.3	1330.5	1345.2	1393.1	1503.6	1215.5
45°	1096.3	1091.2	1148.7	1214.5	1272.1	1339.7	1377.9	1372.8	1403.7	1570.3	1270.2
47.5°	1212.2	1213.2	1251.3	1307.5	1367.3	1400.9	1430.8	1412.9	1425.8	1640.7	1343.4
50°	1291.4	1298.3	1329.1	1386.7	1416.6	1468.1	1506.3	1495.3	1491.1	1683.0	1389.4
52.5°	1311.6	1332.3	1348.9	1420.7	1490.7	1572.1	1620.9	1644.4	1570.7	1697.3	1447.9
55°	1158.8	1177.3	1235.7	1334.2	1518.7	1736.9	1804.1	1804.5	1674.8	1760.8	1488.8
57.5°	926.4	889.2	925.1	1029.5	1284.0	1730.0	1893.4	1871.7	1726.8	1723.5	1453.4
60°	640.6	631.4	633.7	675.1	888.7	1376.1	1687.2	1715.3	1590.1	1493.9	1150.6
62.5°	507.6	499.8	489.7	485.1	551.8	857.4	1190.1	1229.7	1111.9	968.8	682.1
65°	397.6	393.0	394.4	412.8	412.4	486.5	650.8	634.6	508.1	375.5	214.5
67.5°	268.3	275.2	280.7	336.4	365.0	338.7	314.3	305.1	165.2	69.5	47.4
70°	151.0	151.9	157.9	210.3	277.1	262.8	216.8	216.8	82.4	25.3	27.2
72.5°	82.4	79.6	74.1	90.7	123.3	125.2	96.6	84.2	24.4	16.6	15.2
75°	40.0	39.6	34.1	28.1	26.7	22.1	17.0	15.6	11.0	10.6	9.2
77.5°	8.3	7.8	4.1	4.1	4.6	5.1	6.4	6.4	7.8	7.8	6.4
80°	0.0	0.0	0.5	1.8	3.2	4.6	5.5	5.5	6.4	6.4	5.1
82.5°	0.0	0.0	0.5	1.4	2.8	4.1	5.1	5.5	6.4	6.9	5.5
85°	0.0	0.0	0.0	0.9	2.3	3.2	2.8	2.8	2.3	1.8	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1074.2	1073.2	1052.1	1040.1	1018.5	999.6	984.4	973.4	973.4	966.5	960.0
5°	1043.8	1036.0	990.9	961.9	920.9	890.5	869.8	853.7	828.4	835.3	808.2
7.5°	1006.0	986.3	926.4	882.2	825.6	782.4	738.2	699.1	661.3	644.3	653.5
10°	965.6	931.0	850.5	780.5	710.1	631.0	579.4	516.8	478.2	475.9	465.7
12.5°	922.7	883.6	785.6	689.0	596.5	501.2	422.5	364.0	337.8	308.8	314.3
15°	890.5	832.5	713.3	596.9	474.0	377.8	298.7	253.6	228.7	221.8	219.5
17.5°	855.6	793.4	639.7	498.9	371.9	272.0	214.9	193.3	183.6	183.6	182.2
20°	819.2	749.2	566.5	407.8	278.9	203.0	172.1	165.2	164.8	164.3	164.3
22.5°	795.3	698.6	500.3	324.0	210.3	162.5	149.6	146.8	148.7	154.2	154.2
25°	770.0	649.8	427.1	249.9	162.9	139.4	132.1	133.9	138.5	143.6	141.7
27.5°	744.2	618.1	358.1	196.1	133.5	122.0	119.2	123.3	128.4	133.0	131.6
30°	738.2	584.0	292.7	148.7	114.6	106.3	108.2	111.8	116.9	118.7	120.6
32.5°	747.4	557.3	239.8	122.0	99.9	97.6	97.6	99.4	102.6	106.8	105.4
35°	773.6	542.1	189.6	105.9	91.6	89.3	88.8	90.7	92.5	93.9	92.5
37.5°	813.7	530.2	155.1	93.9	86.1	82.4	81.5	81.0	82.8	83.3	84.2
40°	864.8	536.6	131.6	86.5	80.5	76.4	73.6	73.6	73.6	75.0	75.5
42.5°	920.0	545.4	113.7	82.4	75.5	70.4	67.7	66.7	67.7	69.5	69.0
45°	978.0	562.4	102.2	75.9	70.9	64.4	60.7	59.8	62.1	65.8	65.4
47.5°	1032.3	586.8	93.4	71.8	66.3	60.3	55.7	54.8	58.9	64.0	64.4
50°	1086.6	629.1	90.2	68.6	63.1	56.1	52.0	51.1	55.7	62.1	63.5
52.5°	1149.2	674.7	87.9	64.4	59.4	52.9	48.3	47.4	52.5	60.7	61.2
55°	1190.1	713.3	86.1	57.1	52.5	47.9	44.2	43.7	49.2	56.6	58.4
57.5°	1142.3	659.5	79.6	49.7	44.6	42.3	39.1	39.1	43.7	50.6	52.0
60°	866.1	434.0	56.6	40.0	37.7	36.4	35.0	35.0	38.7	43.7	44.2
62.5°	507.2	233.8	36.4	32.2	32.2	30.8	28.5	28.5	32.2	35.0	35.4
65°	150.5	75.0	29.5	27.6	27.2	24.9	22.6	22.1	24.9	26.2	25.8
67.5°	43.3	34.5	24.4	23.0	22.6	18.9	17.5	17.0	17.5	16.6	16.1
70°	25.8	23.5	18.9	19.3	17.0	13.8	12.4	12.0	11.0	9.7	8.7
72.5°	14.3	14.3	13.8	14.7	12.0	9.2	7.8	6.4	5.1	4.1	3.7
75°	8.7	9.2	9.7	10.1	7.8	6.0	5.1	3.2	1.8	0.9	0.9
77.5°	6.0	6.4	6.9	7.4	6.4	5.5	4.1	2.3	0.5	0.0	0.0
80°	4.6	5.1	6.0	6.4	6.9	7.4	5.5	2.3	0.5	0.0	0.0
82.5°	5.1	5.5	6.9	6.4	6.4	6.4	5.1	2.3	0.5	0.0	0.0
85°	0.9	1.4	2.3	2.3	3.2	4.1	3.2	0.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)