

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: P526347

Luminaire Tested: **GALN-SA1B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526347
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-SA1B-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 3262 lumens
Efficiency: N/A
Efficacy: 74.1 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

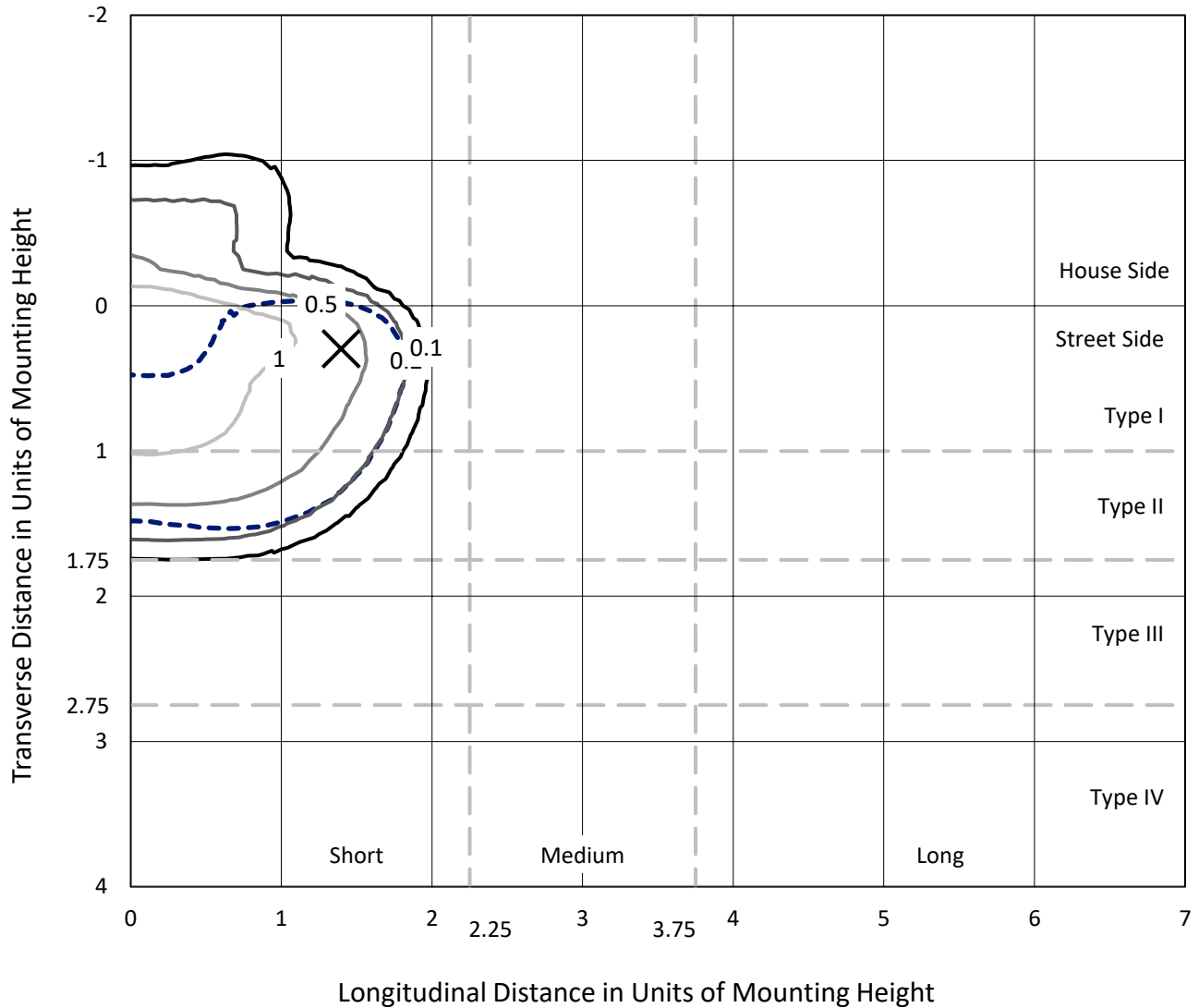
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

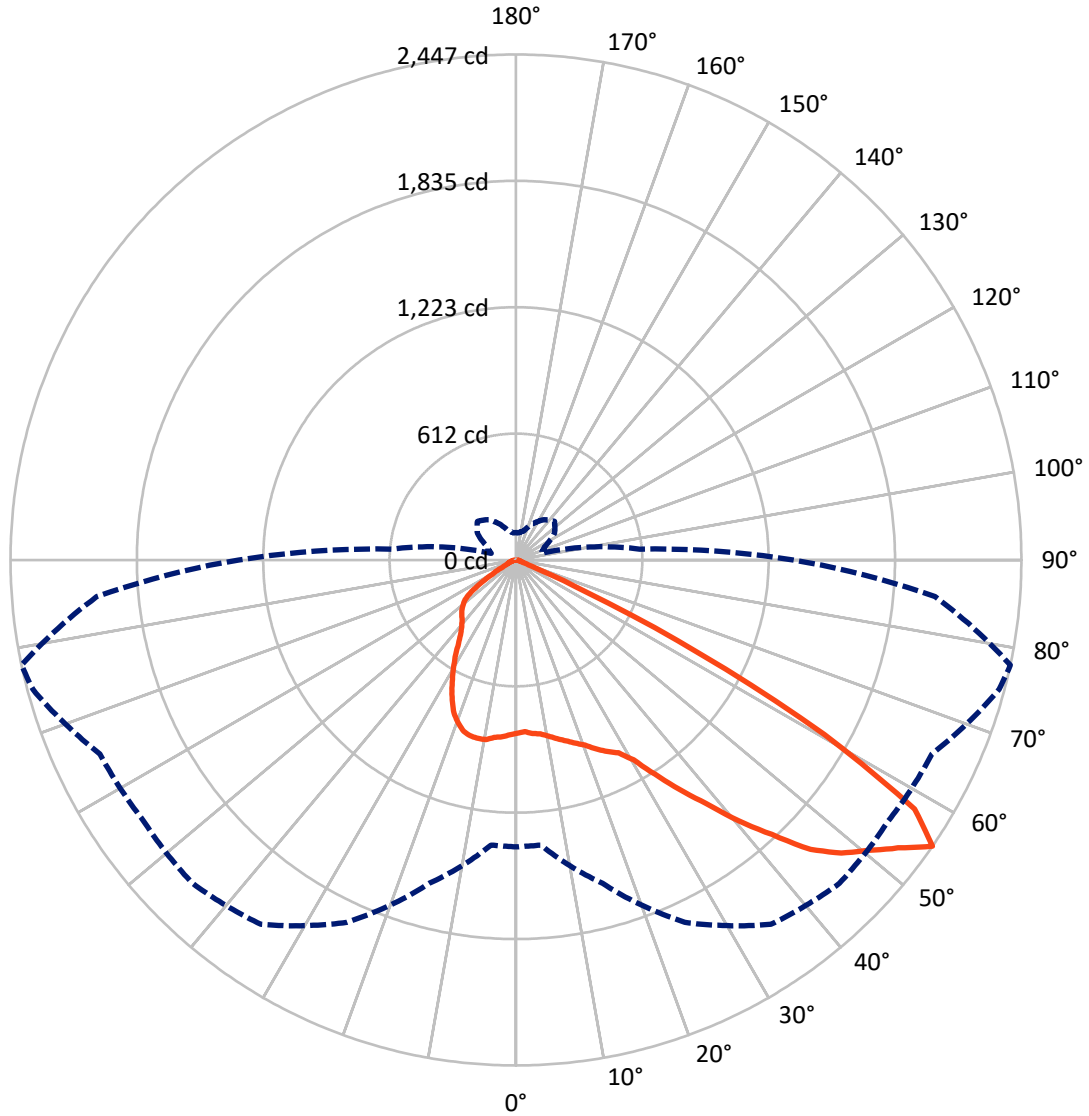
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	605.9	0.0	605.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2656.1	0.0	2656.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	3262.0	0.0	3262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	2.3
10°-20°	197.9	6.1
20°-30°	346.9	10.6
30°-40°	572.0	17.5
40°-50°	832.3	25.5
50°-60°	943.1	28.9
60°-70°	269.7	8.3
70°-80°	20.9	0.6
80°-90°	4.4	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°	3262.0	100.0
0°-180°	3262.0	100.0

Coefficient of Utilization



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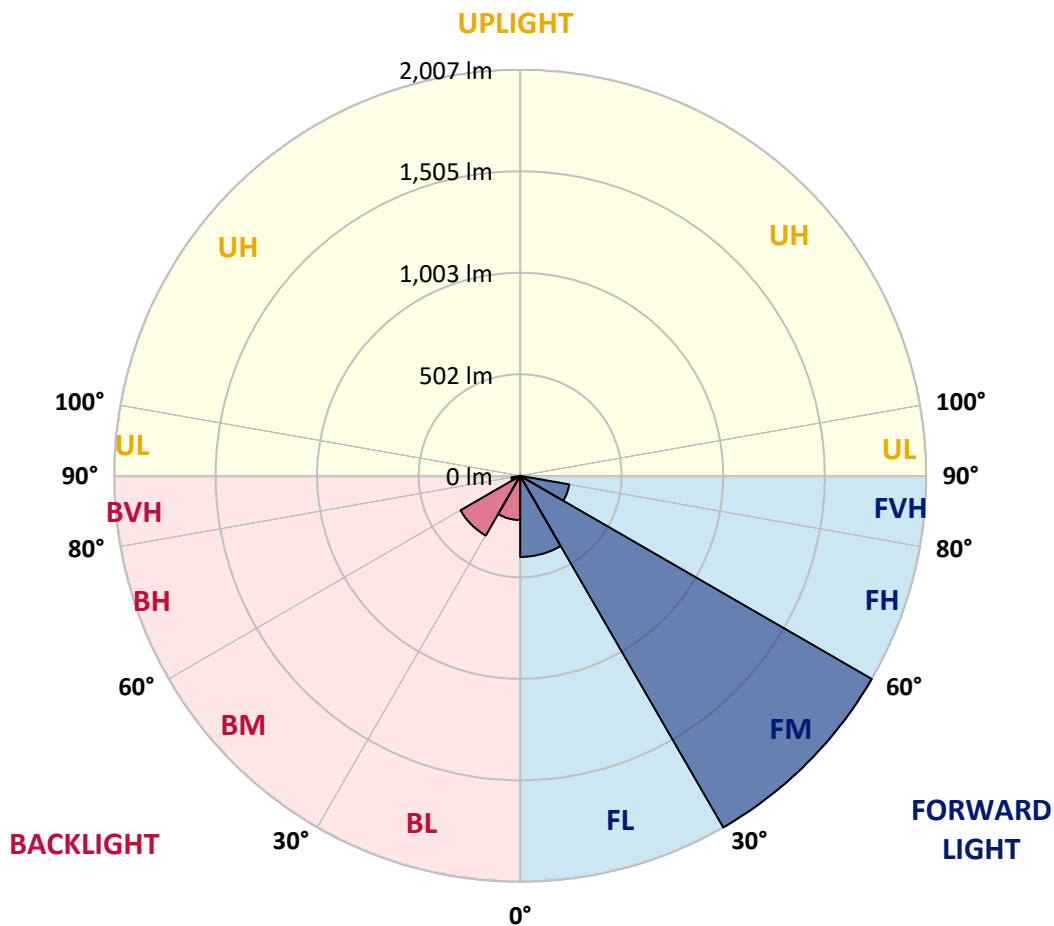
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.0	12.3			
FM (30°-60°)	2006.6	61.5			
FH (60°-80°)	246.4	7.6			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	218.6	6.7	B1/500		
BM (30°-60°)	340.8	10.4	B1/1000		
BH (60°-80°)	44.2	1.4	B0/110		G0/110
BVH (80°-90°)	2.2	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°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	788.5	796.1	797.3	806.6	806.0	821.7	826.4	827.0	837.5	832.2	845.7
5°	766.3	762.3	760.5	776.8	781.5	795.5	807.2	814.2	835.7	843.3	857.3
7.5°	746.5	746.5	747.7	762.3	760.5	778.6	790.8	812.4	843.9	850.3	867.2
10°	727.3	720.3	729.0	744.2	757.0	765.2	790.8	811.3	848.0	866.7	890.0
12.5°	717.4	720.9	722.0	733.1	747.1	771.6	785.6	819.4	877.2	888.2	913.3
15°	779.8	772.8	755.8	745.9	757.6	769.3	804.3	838.7	892.3	908.1	936.1
17.5°	852.1	846.2	832.2	805.4	779.2	800.8	828.2	859.7	908.6	932.0	973.4
20°	946.6	937.2	923.2	870.7	848.0	824.7	853.8	891.2	935.5	956.5	999.0
22.5°	1059.1	1059.1	1027.6	964.1	916.8	894.7	906.9	928.5	965.2	993.8	1035.8
25°	1176.3	1172.8	1144.3	1078.4	998.5	972.2	986.2	1001.4	1011.3	1027.0	1055.0
27.5°	1310.5	1290.1	1253.9	1181.0	1110.4	1059.7	1074.9	1061.4	1049.2	1057.4	1097.6
30°	1401.5	1414.3	1368.2	1298.2	1231.7	1175.2	1178.1	1166.4	1110.4	1122.1	1146.0
32.5°	1495.9	1504.1	1478.4	1440.0	1373.5	1307.6	1283.7	1273.7	1231.7	1237.0	1213.7
35°	1574.7	1590.4	1567.7	1550.8	1531.5	1478.4	1412.5	1444.6	1377.0	1364.1	1303.5
37.5°	1647.0	1642.3	1669.2	1651.7	1647.6	1610.3	1537.9	1544.4	1498.9	1495.9	1426.0
40°	1711.7	1712.9	1749.6	1757.8	1741.5	1675.0	1570.0	1620.8	1657.5	1661.0	1571.2
42.5°	1765.4	1781.1	1812.6	1878.5	1854.0	1743.2	1603.3	1658.7	1795.1	1816.7	1708.8
45°	1812.0	1844.1	1883.2	1942.1	1928.1	1840.0	1686.1	1736.8	1942.1	1998.7	1838.3
47.5°	1815.0	1857.0	1899.5	1987.0	2004.5	1891.9	1771.8	1860.5	2058.7	2120.0	1932.8
50°	1803.3	1825.5	1910.6	2005.7	2045.3	1976.5	1891.9	1964.3	2171.9	2210.4	1980.6
52.5°	1665.1	1682.0	1852.9	2023.2	2118.8	2072.2	2051.2	2108.9	2287.4	2315.9	2025.5
55°	1388.0	1385.1	1620.2	1935.1	2152.6	2213.9	2201.1	2221.5	2420.9	2446.6	2036.6
57.5°	949.5	1002.5	1205.5	1611.4	1945.6	2180.6	2194.1	2160.2	2265.2	2275.1	1775.3
60°	512.1	534.2	697.5	1075.4	1481.4	1777.1	1812.0	1750.8	1742.6	1714.6	1267.3
62.5°	203.5	214.6	307.4	532.5	807.2	1080.1	1155.3	1130.3	1076.6	1003.1	656.1
65°	96.8	103.8	152.8	249.0	358.1	450.2	525.5	548.8	404.8	364.5	216.4
67.5°	65.9	71.2	111.4	142.3	127.7	133.6	173.8	161.6	95.1	81.1	60.1
70°	50.2	53.7	89.2	96.8	57.2	40.2	44.9	42.0	39.1	39.7	39.1
72.5°	35.6	38.5	65.3	57.2	25.1	18.7	23.9	28.6	28.6	28.6	28.0
75°	21.6	24.5	37.9	22.2	9.9	9.9	15.2	19.2	20.4	21.0	19.8
77.5°	11.1	14.0	12.8	6.4	6.4	7.6	11.1	13.4	14.6	14.6	14.0
80°	2.3	2.3	2.3	3.5	6.4	8.2	11.1	12.2	14.0	14.0	12.8
82.5°	0.0	0.6	1.7	3.5	5.8	7.6	10.5	12.2	14.0	14.6	13.4
85°	0.0	0.6	1.2	2.3	4.1	4.7	4.1	3.5	3.5	3.5	3.5
87.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	846.8	848.6	845.7	845.1	842.7	849.7	832.8	828.7	839.2	829.3	831.7
5°	857.9	862.0	856.7	848.0	835.2	815.3	798.4	776.3	765.8	758.2	757.0
7.5°	866.1	869.0	863.7	835.7	797.3	747.1	709.8	682.4	660.8	654.4	643.9
10°	899.3	899.9	873.7	811.8	736.6	670.7	613.5	571.5	550.0	536.6	530.7
12.5°	921.5	920.3	867.2	764.6	664.3	576.8	511.5	460.7	440.9	434.5	430.4
15°	949.5	943.1	852.1	716.2	571.0	476.5	417.6	382.6	380.8	376.8	380.8
17.5°	971.6	953.6	829.9	628.1	481.7	392.5	354.0	356.3	361.0	365.1	365.7
20°	1007.8	970.5	779.2	551.1	398.9	336.5	335.9	346.4	358.1	362.8	367.4
22.5°	1035.2	977.5	724.9	468.9	331.3	313.8	323.7	339.4	348.2	352.8	359.8
25°	1045.1	958.2	652.6	386.7	298.6	303.3	318.4	328.9	340.0	345.3	342.3
27.5°	1055.0	948.3	566.3	318.4	281.1	296.3	309.1	319.6	323.1	330.1	334.8
30°	1078.9	913.9	488.7	275.3	272.4	291.6	300.9	304.4	313.8	317.9	317.9
32.5°	1098.2	900.5	406.5	254.9	271.2	293.9	295.1	295.1	296.3	293.4	292.2
35°	1137.9	854.4	333.0	242.6	270.6	294.5	297.4	287.5	260.7	250.2	247.3
37.5°	1186.8	824.7	278.8	239.7	274.7	301.5	306.2	268.9	233.9	217.0	214.0
40°	1246.3	803.7	243.2	238.5	284.0	317.9	303.9	254.3	208.8	184.3	183.1
42.5°	1315.7	784.4	219.3	238.0	295.7	334.8	301.5	242.0	183.1	166.8	169.1
45°	1371.1	773.9	203.0	233.9	299.8	344.7	303.3	220.5	172.6	162.1	163.3
47.5°	1414.3	751.8	189.5	226.9	299.2	348.2	287.5	211.7	167.4	170.3	173.2
50°	1415.5	722.0	172.6	211.7	290.4	341.8	269.4	203.5	166.2	178.5	184.3
52.5°	1399.7	680.0	154.6	190.1	270.0	319.6	253.1	200.0	161.0	159.8	166.8
55°	1343.7	601.3	124.2	154.0	228.0	263.6	238.5	193.6	145.2	131.8	133.0
57.5°	1085.9	431.0	91.6	110.2	161.6	193.0	215.2	190.7	130.6	112.0	112.6
60°	672.4	244.4	67.1	75.2	99.7	117.2	174.4	177.3	116.6	94.5	93.3
62.5°	345.3	120.7	51.9	53.1	61.2	68.8	119.6	148.7	105.6	89.8	89.8
65°	115.5	59.5	45.5	40.8	40.8	42.6	72.3	103.2	89.2	75.2	75.2
67.5°	49.6	44.3	39.7	35.6	32.7	30.9	40.8	60.1	66.5	57.2	54.8
70°	38.5	37.3	34.4	29.7	25.7	23.3	23.9	30.9	37.9	36.7	35.6
72.5°	28.6	28.6	27.4	23.3	19.8	16.9	15.7	16.3	18.1	18.7	19.2
75°	19.8	20.4	20.4	18.1	14.6	12.2	10.5	8.7	7.0	5.8	5.2
77.5°	13.4	14.0	15.2	13.4	11.1	8.2	6.4	4.7	2.9	1.2	1.2
80°	11.7	13.4	14.6	13.4	11.7	8.7	6.4	3.5	1.7	0.0	0.0
82.5°	12.2	13.4	15.2	12.8	11.1	8.2	6.4	4.1	1.7	0.6	0.0
85°	2.9	2.9	3.5	4.1	5.2	5.8	4.7	2.9	1.7	0.6	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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)