

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: P526216

Luminaire Tested: **GALN-SA1A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2900 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

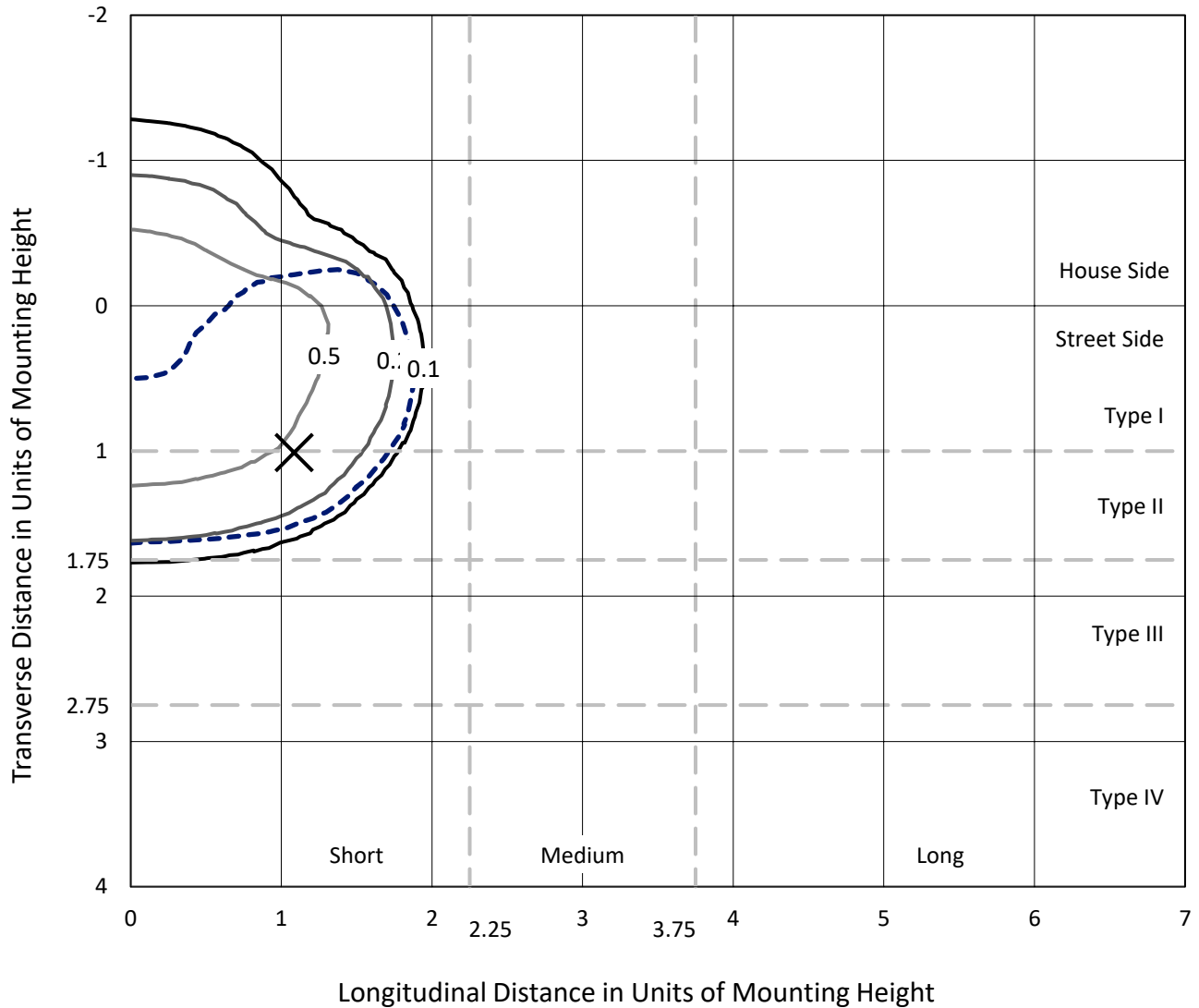
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

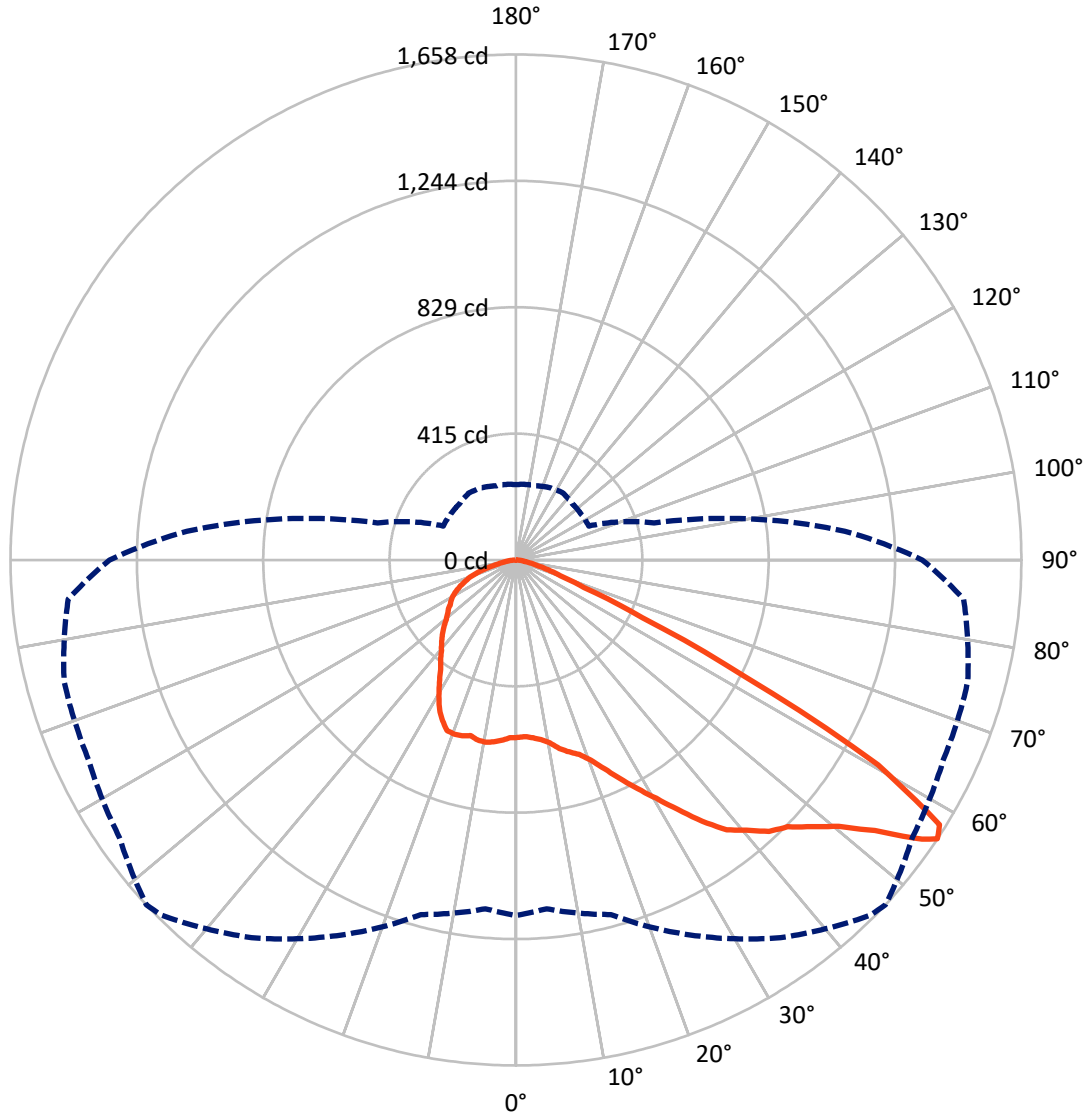
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	919.0	0.0	919.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	1981.0	0.0	1981.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	2900.0	0.0	2900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	2.0
10°-20°	179.0	6.2
20°-30°	316.5	10.9
30°-40°	475.4	16.4
40°-50°	652.4	22.5
50°-60°	777.3	26.8
60°-70°	332.6	11.5
70°-80°	94.1	3.2
80°-90°	15.8	0.5
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°	2900.0	100.0
0°-180°	2900.0	100.0

Coefficient of Utilization

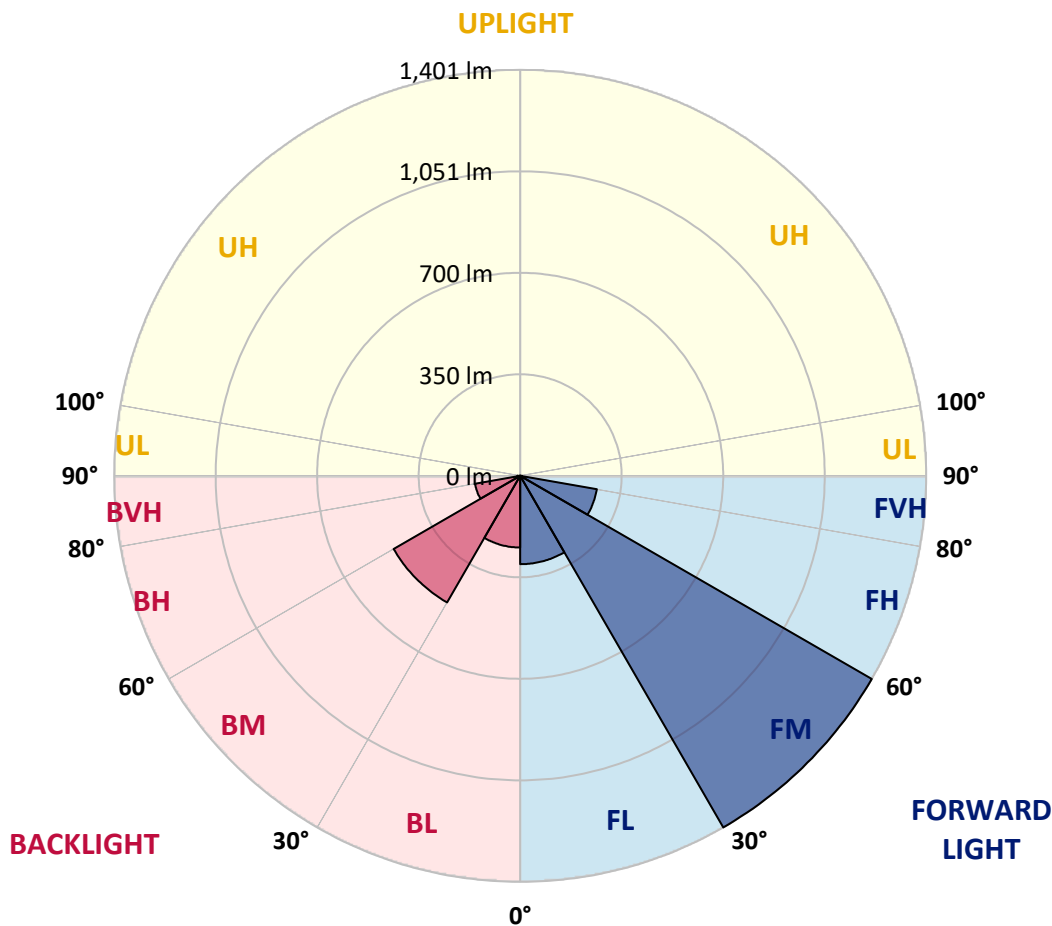


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.9	10.5			
FM (30°-60°)	1400.8	48.3			
FH (60°-80°)	268.6	9.3			G0/660
FVH (80°-90°)	6.7	0.2			G0/10
BL (0°-30°)	247.4	8.5	B1/500		
BM (30°-60°)	504.3	17.4	B1/1000		
BH (60°-80°)	158.1	5.5	B1/500		G1/500
BVH (80°-90°)	9.1	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5
2.5°	580.3	579.2	578.5	584.4	582.2	582.5	580.3	582.5	584.0	580.7	585.5
5°	579.2	582.5	579.6	581.4	586.2	584.7	586.2	590.7	589.5	588.4	587.0
7.5°	589.5	589.9	592.1	592.9	594.4	592.9	595.1	599.2	598.1	591.8	592.5
10°	604.3	605.1	605.5	609.5	612.1	612.5	609.9	606.2	605.8	614.3	608.4
12.5°	621.4	619.5	623.9	625.4	628.4	631.7	635.0	627.3	632.1	632.5	625.4
15°	646.1	648.0	642.8	642.8	643.9	644.3	653.5	649.8	649.1	645.0	648.0
17.5°	683.1	670.5	670.2	665.0	664.3	667.2	670.5	673.5	683.5	675.4	659.5
20°	710.1	713.1	702.4	696.1	697.2	703.8	700.5	713.8	720.8	707.5	692.0
22.5°	757.8	747.8	750.4	736.4	737.5	744.5	744.1	757.8	761.9	740.8	718.3
25°	790.0	787.4	789.6	778.5	780.0	785.6	794.4	817.0	810.4	787.1	734.9
27.5°	837.0	831.8	830.0	825.9	824.4	839.2	849.6	873.6	868.8	834.8	764.5
30°	885.1	881.7	883.6	866.9	872.9	904.3	907.3	940.2	938.0	878.0	797.4
32.5°	918.4	920.2	923.5	914.3	940.5	965.7	975.7	1013.0	1014.9	952.4	861.0
35°	972.0	965.7	967.5	978.3	990.5	1036.3	1052.6	1077.4	1092.9	1030.4	922.0
37.5°	1005.6	1012.3	1004.5	1021.5	1053.3	1108.5	1123.3	1148.8	1165.0	1107.3	1005.3
40°	1058.2	1047.4	1053.0	1065.2	1097.7	1169.5	1165.4	1191.7	1196.9	1172.8	1082.9
42.5°	1114.7	1109.6	1101.8	1129.5	1156.9	1209.1	1217.2	1205.0	1231.2	1236.8	1193.9
45°	1182.4	1188.7	1189.8	1190.6	1214.6	1260.1	1249.0	1238.3	1268.6	1308.9	1262.7
47.5°	1245.3	1225.3	1239.8	1259.7	1293.8	1294.1	1307.1	1281.5	1313.7	1349.6	1324.8
50°	1266.4	1256.8	1276.0	1313.7	1366.2	1371.8	1373.3	1337.0	1353.7	1382.1	1346.3
52.5°	1258.2	1254.9	1304.1	1362.5	1439.5	1467.6	1475.0	1430.2	1439.5	1426.5	1393.6
55°	1219.4	1229.4	1279.0	1398.1	1516.0	1603.0	1617.0	1560.4	1501.6	1511.6	1475.4
56°	1166.2	1148.8	1204.2	1357.7	1512.7	1647.0	1658.4	1587.8	1547.8	1534.9	1474.6
57.5°	989.4	966.8	1039.7	1221.6	1428.8	1630.3	1638.8	1599.3	1540.1	1513.8	1367.0
60°	579.2	590.3	682.8	842.5	1102.2	1336.7	1365.1	1394.0	1354.4	1236.8	1017.5
62.5°	279.6	272.6	338.8	483.0	671.7	853.3	844.7	925.7	970.1	878.8	642.4
65°	146.5	145.7	184.9	263.7	369.1	448.3	456.0	499.7	560.7	452.7	326.2
67.5°	107.6	110.6	130.2	185.3	237.4	242.3	241.1	263.0	268.9	227.5	200.5
70°	84.3	85.8	100.2	140.9	176.8	158.3	155.0	157.6	174.9	182.3	173.5
72.5°	61.0	62.5	74.7	95.1	110.6	108.0	110.2	124.6	146.1	153.9	144.6
75°	40.7	41.8	48.5	58.1	65.5	70.6	74.7	91.4	111.3	115.8	111.3
77.5°	28.1	29.2	33.7	41.1	41.8	45.1	46.6	54.4	66.6	72.1	69.2
80°	15.9	15.9	18.1	21.1	25.9	30.3	31.1	37.4	42.9	46.6	47.3
82.5°	7.4	7.8	9.6	12.9	17.0	21.1	21.8	25.9	30.0	33.7	34.8
85°	3.7	4.1	5.5	7.8	10.4	12.6	12.2	12.6	13.3	12.6	12.9
87.5°	1.1	1.1	1.5	1.8	1.5	1.8	1.8	2.2	2.6	3.0	3.3
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°	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5
2.5°	585.9	587.0	579.6	586.6	584.0	583.6	588.8	588.1	589.9	589.2	584.7
5°	586.2	583.6	591.4	584.4	587.7	594.7	589.9	601.0	595.5	599.2	591.0
7.5°	597.7	598.4	596.9	599.9	598.4	601.8	599.2	601.8	597.3	597.7	605.1
10°	607.7	605.5	608.0	604.3	606.9	605.8	599.9	598.1	599.5	597.7	602.5
12.5°	626.2	622.1	620.2	615.8	612.9	601.8	592.5	587.3	594.4	595.5	593.2
15°	645.0	645.4	636.9	626.9	608.4	591.8	594.0	595.8	595.8	598.8	593.2
17.5°	656.9	656.9	649.1	629.1	610.3	600.6	598.4	592.5	587.3	586.6	586.2
20°	677.6	671.3	653.5	628.8	609.5	605.1	588.4	574.4	563.7	560.0	559.6
22.5°	701.2	685.3	660.6	629.5	608.4	602.1	571.1	550.0	530.7	522.6	523.7
25°	723.1	697.5	664.6	626.2	604.3	574.0	539.2	510.0	490.1	483.4	480.1
27.5°	738.2	710.5	664.6	629.1	589.2	542.6	507.1	469.7	452.3	447.9	448.6
30°	758.6	726.8	676.1	622.8	558.9	501.9	459.4	434.9	424.6	420.9	423.5
32.5°	806.3	769.3	692.0	607.7	523.0	461.2	426.8	413.1	398.0	390.6	388.0
35°	858.1	809.6	707.5	582.2	482.7	424.2	402.8	390.2	372.1	363.9	365.4
37.5°	931.3	861.4	708.6	540.0	439.0	403.5	383.9	364.3	349.5	336.9	333.2
40°	1030.0	932.0	706.1	495.6	403.9	379.1	364.7	340.3	323.6	314.7	316.6
42.5°	1117.0	1014.9	695.3	445.3	372.1	362.5	346.2	322.1	305.9	296.6	295.9
45°	1190.2	1075.9	675.0	402.4	345.4	344.0	325.1	306.6	293.7	285.2	288.9
47.5°	1257.9	1125.1	644.3	359.5	321.0	324.0	305.9	294.4	286.3	278.5	278.1
50°	1282.3	1124.4	617.3	324.0	301.4	300.0	299.2	287.0	278.5	271.8	274.8
52.5°	1323.0	1136.9	588.1	299.6	283.7	284.0	286.6	277.8	268.1	264.1	267.8
55°	1381.4	1138.8	523.7	271.1	268.9	271.5	271.5	265.6	257.4	254.1	252.2
56°	1333.7	1083.7	469.7	263.7	261.5	261.5	268.5	261.9	251.9	249.3	247.1
57.5°	1230.1	949.4	393.2	254.8	251.5	256.7	260.4	253.4	244.1	240.4	242.6
60°	848.4	642.4	295.5	235.6	235.6	244.1	247.1	236.7	232.6	232.3	229.3
62.5°	495.2	374.3	231.2	218.2	219.0	226.0	228.2	222.3	217.1	223.4	226.4
65°	262.6	223.4	198.2	199.7	200.1	205.6	215.3	214.9	214.5	216.4	216.7
67.5°	190.1	185.7	180.1	178.6	179.4	183.4	193.1	200.5	200.1	195.7	192.3
70°	169.4	163.1	159.8	160.1	157.2	162.0	169.8	174.6	166.1	160.9	158.7
72.5°	140.9	139.1	136.8	137.2	131.3	130.2	121.3	121.3	119.1	117.6	120.2
75°	107.6	106.9	108.0	106.1	99.9	93.2	88.0	83.2	75.8	72.9	71.4
77.5°	68.1	70.3	72.9	68.8	66.2	61.4	56.2	51.4	45.5	42.2	42.2
80°	46.2	48.1	49.9	49.2	46.2	41.8	37.7	32.5	28.5	25.9	25.5
82.5°	35.1	36.6	39.2	36.2	33.3	29.6	26.3	22.6	18.9	15.9	15.9
85°	12.6	14.4	15.9	17.4	18.5	18.9	16.3	13.3	10.7	8.5	8.1
87.5°	3.3	3.7	4.1	3.7	3.7	3.7	4.1	3.7	3.3	2.6	2.6
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)