

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: P526047

Luminaire Tested: **GALN-SA1A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2259 lumens
Efficiency: N/A
Efficacy: 68.5 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

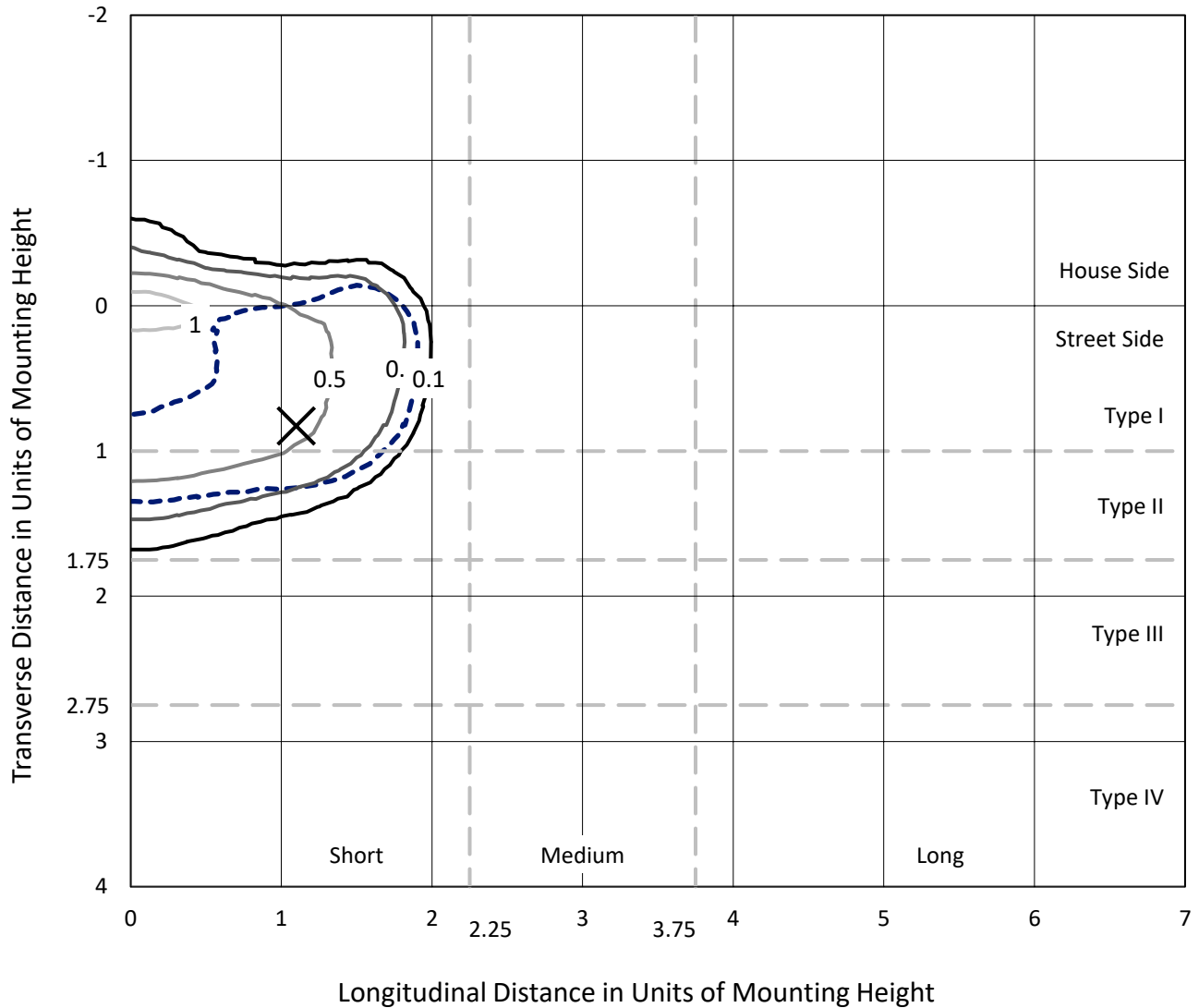
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

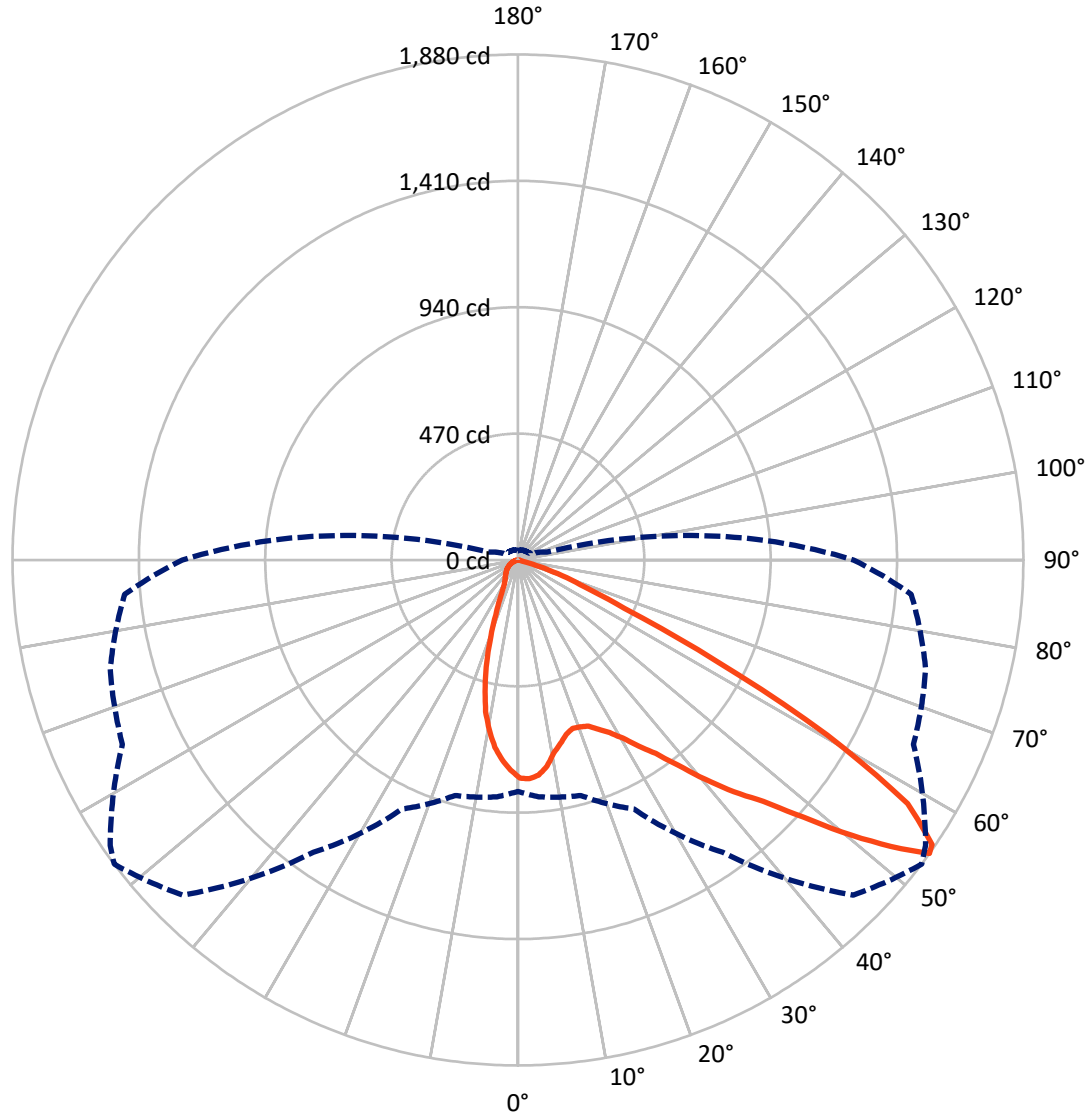
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	373.8	0.0	373.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	1885.2	0.0	1885.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	2259.0	0.0	2259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.1
10°-20°	159.6	7.1
20°-30°	226.8	10.0
30°-40°	350.1	15.5
40°-50°	548.9	24.3
50°-60°	637.6	28.2
60°-70°	240.9	10.7
70°-80°	22.9	1.0
80°-90°	2.6	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°	2259.0	100.0
0°-180°	2259.0	100.0

Coefficient of Utilization



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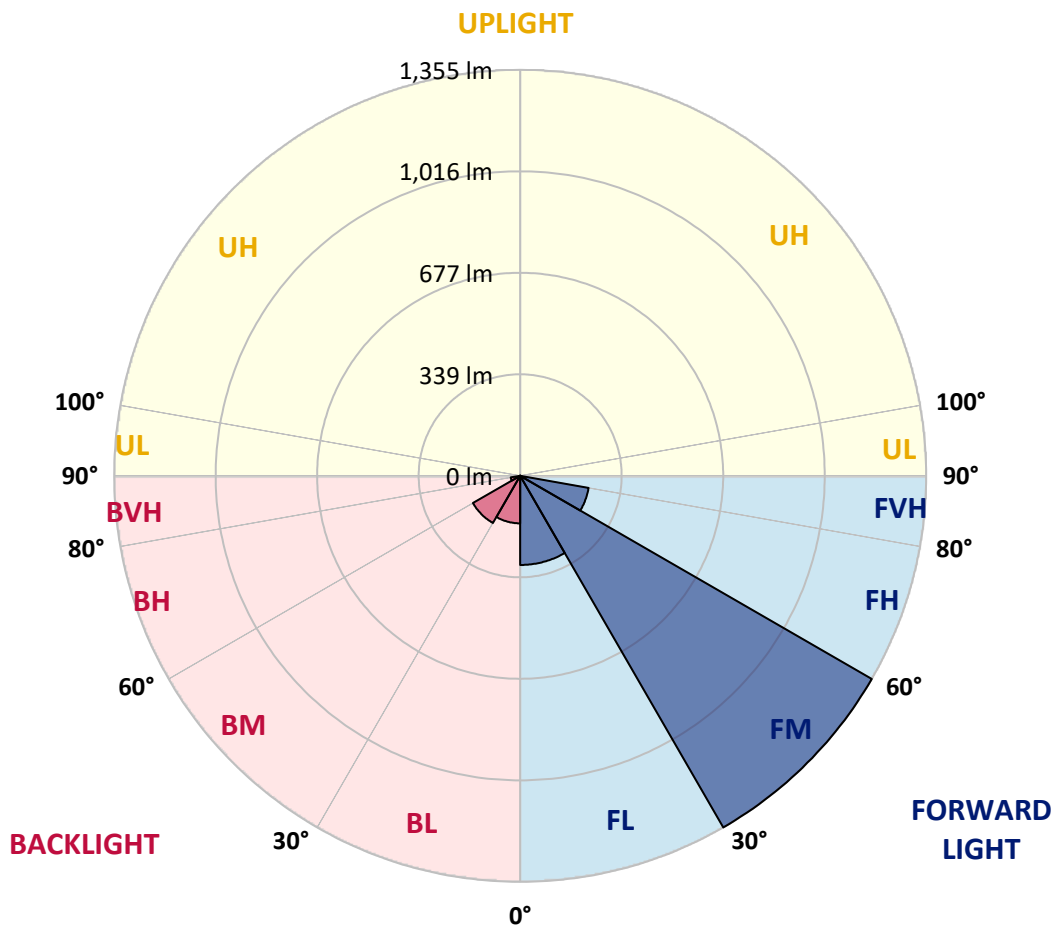
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.5	13.2			
FM (30°-60°)	1354.6	60.0			
FH (60°-80°)	231.8	10.3			G0/660
FVH (80°-90°)	1.3	0.1			G0/10
BL (0°-30°)	158.6	7.0	B1/500		
BM (30°-60°)	181.9	8.1	B0/220		
BH (60°-80°)	32.0	1.4	B0/110		G0/110
BVH (80°-90°)	1.2	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°	53°	55°	65°	75°	85°
0°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4
2.5°	807.2	800.0	807.2	808.0	813.1	817.7	814.8	821.5	817.7	813.5	812.2
5°	742.0	751.6	752.1	767.2	763.8	791.6	803.8	800.5	821.1	819.8	816.9
7.5°	683.5	679.7	684.7	702.4	724.7	756.7	774.4	773.9	803.4	824.4	822.3
10°	629.2	628.7	639.3	653.2	672.1	705.8	730.2	742.4	788.2	820.2	824.9
12.5°	592.6	590.9	602.2	613.6	643.5	669.6	700.7	706.6	759.2	805.5	813.1
15°	568.6	572.4	573.2	595.1	614.0	648.5	672.9	685.1	745.7	793.7	822.8
17.5°	564.4	569.4	569.8	587.9	608.1	637.2	658.6	675.0	734.4	799.6	823.2
20°	572.8	569.8	572.4	583.7	603.5	631.3	662.4	667.9	730.6	802.6	827.8
22.5°	596.8	595.9	589.6	598.9	612.8	641.8	671.3	679.7	741.5	817.7	831.6
25°	623.3	627.9	622.0	620.8	630.4	659.0	698.2	709.1	778.1	845.1	843.4
27.5°	672.9	668.3	668.3	662.4	659.9	673.8	727.2	745.3	819.0	880.4	856.8
30°	720.5	725.5	721.8	723.9	707.0	705.8	768.5	790.8	891.4	934.3	885.5
32.5°	795.8	789.1	795.4	789.9	767.6	744.9	824.4	847.6	978.9	996.1	928.4
35°	858.5	855.6	882.5	881.7	845.5	823.2	883.8	918.3	1039.9	1070.2	978.9
37.5°	947.7	942.3	973.0	987.7	955.3	922.1	968.8	1008.8	1096.7	1129.6	1030.7
40°	1039.5	1053.4	1094.6	1119.0	1084.5	1040.3	1072.7	1084.9	1134.6	1168.3	1066.0
42.5°	1155.6	1175.8	1217.9	1239.0	1236.0	1188.1	1178.4	1178.0	1162.0	1157.3	1092.1
45°	1267.2	1259.6	1324.4	1370.3	1407.3	1393.4	1280.2	1267.6	1205.3	1173.7	1098.8
47.5°	1316.0	1313.5	1357.7	1439.3	1565.6	1582.8	1428.4	1379.5	1278.5	1242.8	1135.4
50°	1252.9	1265.9	1309.7	1400.2	1593.8	1725.5	1610.2	1544.5	1364.0	1326.9	1222.1
52.5°	1046.6	1055.5	1097.2	1212.0	1497.8	1809.6	1784.4	1746.5	1520.9	1459.5	1373.2
54°	860.6	884.2	906.9	1022.2	1326.9	1762.9	1879.9	1850.9	1623.2	1569.8	1468.3
55°	749.5	763.4	779.8	894.7	1208.7	1683.8	1869.0	1871.5	1691.8	1604.3	1532.3
57.5°	547.5	557.2	540.4	591.3	829.9	1367.3	1709.5	1777.7	1784.4	1656.0	1571.4
60°	418.3	422.5	403.6	411.6	516.0	938.5	1322.3	1404.4	1609.7	1447.3	1331.1
62.5°	324.5	325.3	324.9	338.8	355.6	552.2	827.0	899.8	1109.8	1027.7	904.0
65°	239.0	235.3	242.0	284.1	303.4	347.2	435.6	488.6	603.1	509.2	364.0
67.5°	154.9	156.1	162.9	211.3	260.1	266.4	268.1	263.9	264.3	145.6	91.3
70°	93.0	95.1	93.0	119.5	186.0	191.1	174.7	170.4	133.0	34.5	34.1
72.5°	55.1	52.2	46.7	51.3	77.4	92.6	83.3	82.9	52.2	20.2	20.2
75°	23.1	21.0	17.3	15.6	20.6	19.8	19.8	17.7	13.9	13.5	12.6
77.5°	4.6	4.6	3.4	3.8	5.1	5.9	7.2	7.2	8.4	8.4	8.0
80°	0.0	0.4	1.3	2.5	3.8	5.5	6.3	6.3	7.2	7.2	5.9
82.5°	0.0	0.4	1.3	2.5	3.4	5.1	6.3	6.3	7.2	7.6	6.3
85°	0.0	0.4	1.3	2.1	3.4	4.2	4.2	3.8	2.9	2.5	1.7
87.5°	0.0	0.0	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4
2.5°	815.2	814.8	804.7	788.2	784.5	770.6	768.9	760.5	765.1	749.5	747.8
5°	808.4	803.4	791.2	780.7	750.0	728.1	710.8	689.8	677.6	679.7	671.7
7.5°	818.1	805.1	783.6	747.0	709.5	671.3	650.6	607.7	592.1	569.0	565.6
10°	808.0	798.3	765.1	704.5	652.7	597.6	549.2	501.7	465.5	449.9	446.5
12.5°	807.2	790.4	734.8	667.5	592.6	513.4	443.2	383.8	348.0	327.8	323.2
15°	794.1	773.9	700.7	610.2	506.7	408.2	331.6	274.4	247.0	235.3	238.6
17.5°	795.4	765.1	666.6	549.6	422.1	299.6	226.4	197.0	189.8	192.7	192.7
20°	794.1	745.3	625.4	479.8	323.2	207.9	166.2	155.7	160.3	169.6	167.5
22.5°	787.4	736.1	587.5	406.1	237.8	154.0	133.4	133.8	141.0	152.3	154.9
25°	792.5	715.4	539.5	331.6	173.4	122.9	115.7	118.7	126.3	134.7	136.4
27.5°	788.7	700.7	489.4	257.6	126.7	105.6	105.2	108.6	111.9	118.3	118.3
30°	792.9	687.2	440.2	191.5	104.4	96.8	95.1	97.6	101.0	102.3	101.8
32.5°	808.4	677.1	383.4	143.1	92.2	88.4	88.4	88.4	88.0	89.6	90.1
35°	842.5	678.8	333.3	110.7	84.2	81.2	80.0	78.3	77.4	78.3	78.7
37.5°	879.6	678.0	281.5	94.3	78.3	75.8	72.8	70.3	69.9	70.7	69.4
40°	896.0	686.0	233.6	84.6	72.8	69.9	65.2	63.1	63.5	64.4	63.5
42.5°	918.3	688.5	202.4	77.0	67.8	63.1	60.2	57.7	57.2	58.5	58.1
45°	917.9	674.2	169.6	72.8	63.1	58.1	54.3	52.2	52.2	53.0	53.4
47.5°	944.8	672.1	145.6	69.0	59.8	54.7	50.1	48.4	48.0	48.0	47.1
50°	1007.5	701.6	127.1	64.8	55.6	50.9	47.1	45.0	43.3	42.5	42.1
52.5°	1130.0	793.3	112.8	59.8	50.9	47.1	43.8	42.1	40.0	37.9	37.5
54°	1248.7	888.0	111.9	55.6	47.1	44.6	41.7	40.8	38.3	35.4	34.5
55°	1302.1	943.1	114.9	52.2	44.6	42.9	40.4	39.6	37.0	33.7	33.2
57.5°	1346.3	964.6	113.2	43.3	40.4	40.0	37.9	36.6	33.7	29.0	28.2
60°	1083.7	729.3	81.2	38.3	37.0	36.2	34.5	33.7	29.9	24.8	24.4
62.5°	684.7	419.6	51.8	33.7	32.4	31.1	29.0	28.2	24.8	19.8	18.5
65°	291.6	173.8	34.9	29.9	27.8	25.7	24.0	22.7	19.8	14.7	14.3
67.5°	75.8	61.9	29.0	26.1	23.1	20.2	18.9	16.8	13.5	10.1	9.7
70°	34.1	31.1	24.4	21.9	18.5	15.6	13.9	11.8	8.8	6.7	6.3
72.5°	20.2	19.8	18.5	16.4	13.9	11.8	10.1	8.0	5.9	3.8	3.8
75°	12.6	12.2	12.6	11.4	9.7	8.8	7.6	5.5	3.4	1.7	1.7
77.5°	7.6	7.6	7.6	7.2	6.7	6.7	5.5	3.4	1.7	0.4	0.4
80°	5.9	5.9	6.3	5.9	5.9	5.9	4.6	2.5	0.8	0.0	0.0
82.5°	5.9	6.3	7.2	6.7	5.9	5.1	4.2	2.5	0.8	0.0	0.0
85°	1.7	1.3	2.1	2.9	4.2	3.8	2.9	2.1	0.8	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.4	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)