

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: P526205

Luminaire Tested: **GALN-SA1A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526205  
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-SA1A-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA 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: 1990 lumens  
Efficiency: N/A  
Efficacy: 60.3 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

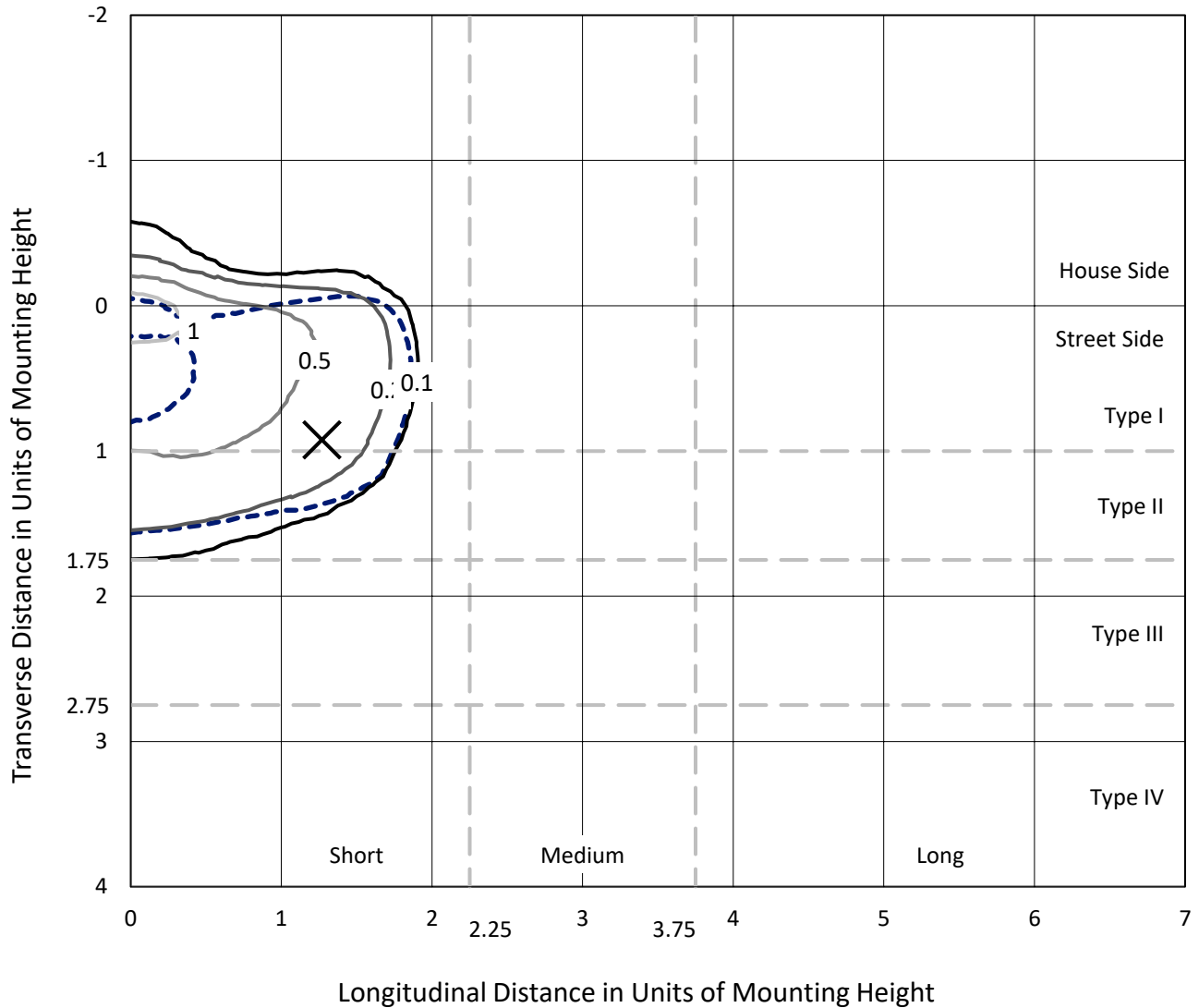
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

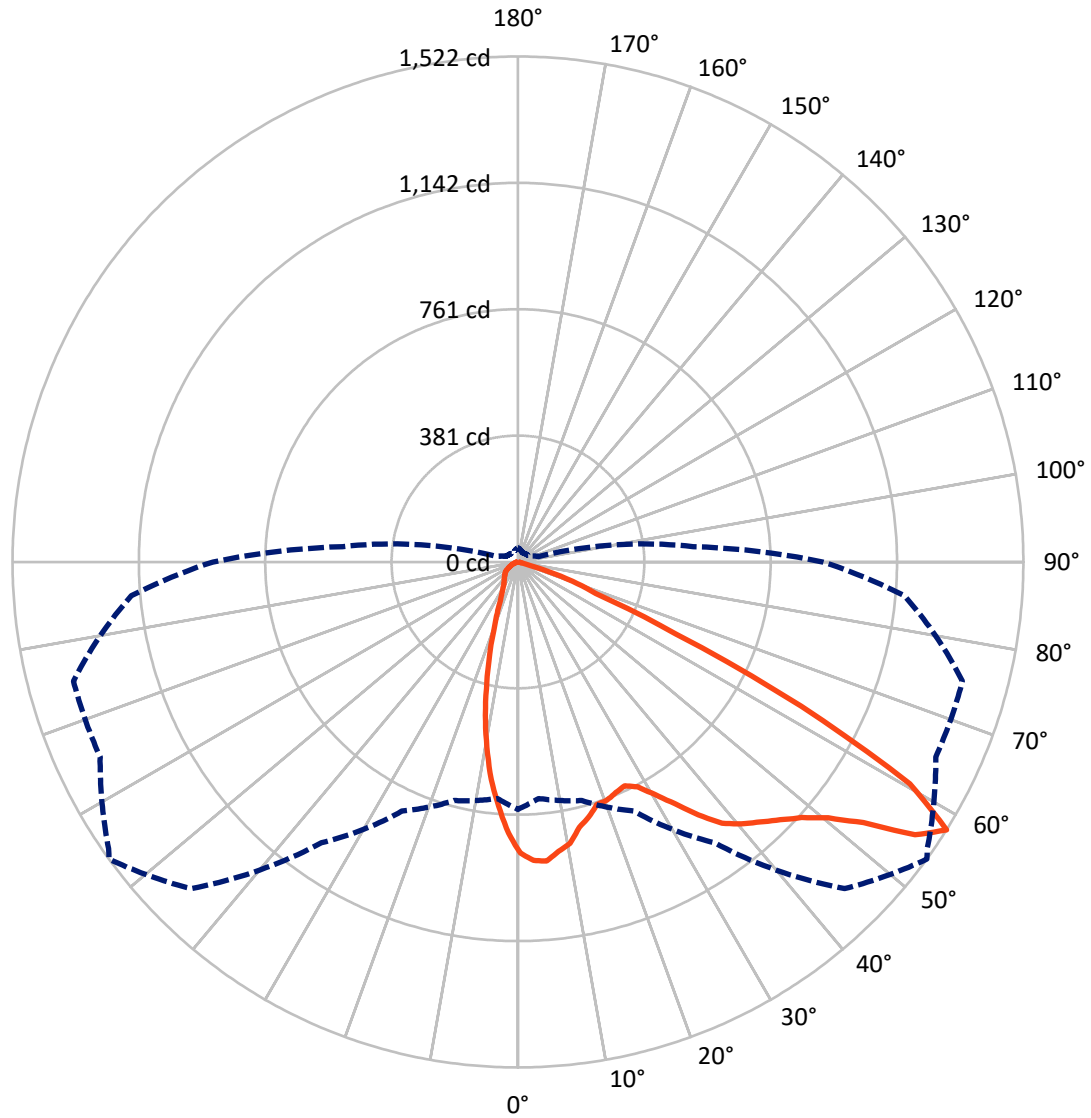
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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
<b>House Side</b>	Lumens	281.2	0.0	281.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	1708.8	0.0	1708.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	1990.0	0.0	1990.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	3.7
10°-20°	156.6	7.9
20°-30°	207.5	10.4
30°-40°	301.6	15.2
40°-50°	447.3	22.5
50°-60°	559.3	28.1
60°-70°	220.6	11.1
70°-80°	22.0	1.1
80°-90°	1.7	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°	1990.0	100.0
0°-180°	1990.0	100.0

**Coefficient of Utilization**



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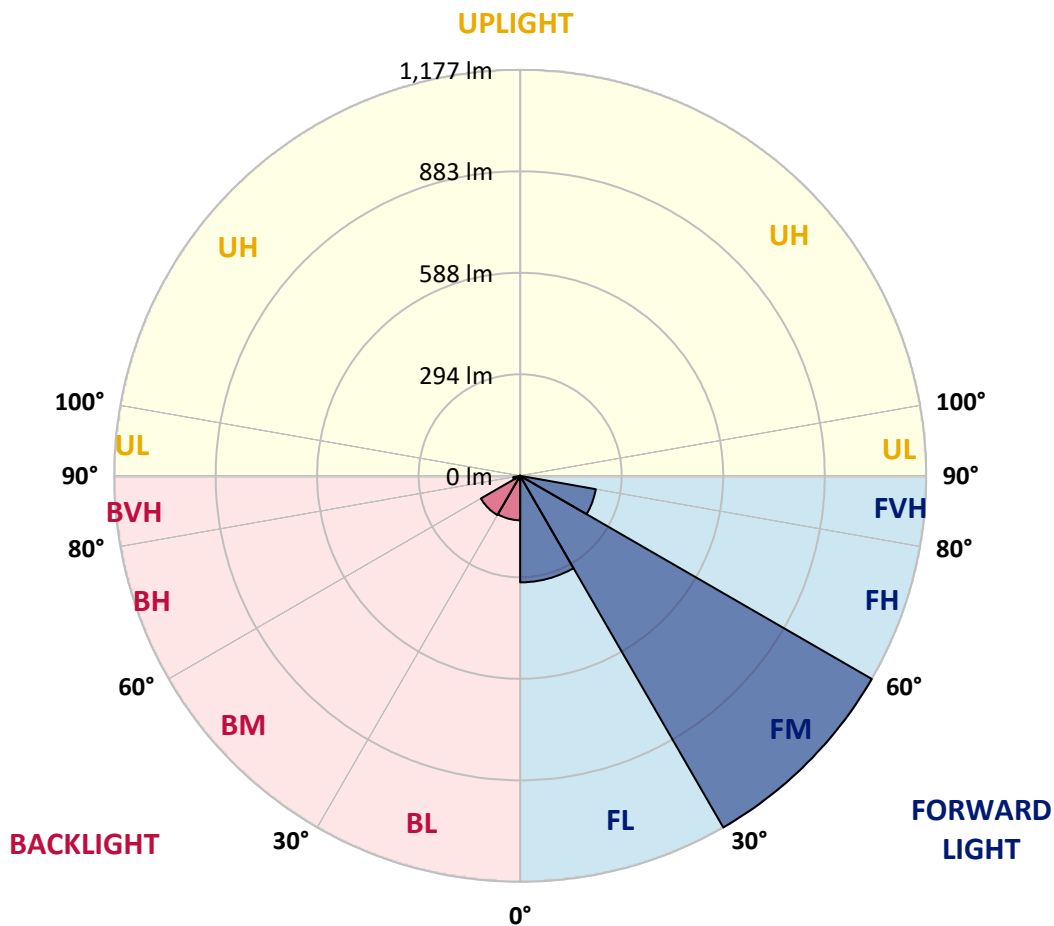
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.9	15.5			
FM (30°-60°)	1176.7	59.1			
FH (60°-80°)	222.4	11.2			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	128.6	6.5	B1/500		
BM (30°-60°)	131.5	6.6	B0/220		
BH (60°-80°)	20.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.9	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°	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6
2.5°	927.7	918.1	918.8	915.5	911.0	914.4	899.9	903.3	902.9	883.3	870.3
5°	904.4	914.7	904.0	912.9	904.4	913.6	904.7	898.1	887.4	872.9	848.9
7.5°	864.8	854.8	857.7	868.9	870.7	891.4	880.3	888.8	884.4	855.9	823.0
10°	785.2	783.0	797.8	812.6	830.7	852.9	861.5	856.6	853.3	842.6	798.5
12.5°	724.2	730.5	730.1	754.5	785.2	797.8	820.0	819.3	837.8	817.8	775.6
15°	666.1	669.4	684.9	700.1	734.2	770.1	797.4	801.1	823.3	809.3	757.8
17.5°	630.5	625.7	637.9	656.1	690.9	737.9	768.2	777.1	807.4	804.5	737.5
20°	595.4	595.4	605.4	626.8	658.7	711.6	765.6	763.0	807.4	798.9	715.7
22.5°	583.6	589.5	592.1	608.3	646.1	691.6	754.5	759.3	813.7	796.3	706.0
25°	599.8	592.1	592.8	605.8	641.3	682.0	746.4	757.1	825.2	809.3	698.3
27.5°	602.4	610.2	612.4	621.3	645.0	684.9	766.7	788.6	853.7	839.6	700.5
30°	625.0	632.8	632.4	647.6	663.8	709.0	812.2	816.7	912.5	877.7	714.2
32.5°	652.4	660.5	663.1	680.9	693.8	753.0	867.7	879.2	969.1	937.7	750.1
35°	686.4	683.5	695.3	713.1	740.8	817.4	935.5	954.7	1030.2	1015.4	787.1
37.5°	729.0	725.3	736.7	765.6	803.4	893.6	998.0	1010.6	1074.6	1087.5	855.5
40°	758.9	760.4	795.2	834.1	874.0	966.2	1037.6	1049.8	1105.7	1154.9	907.3
42.5°	808.9	818.2	860.0	907.3	949.1	1020.6	1069.8	1081.6	1120.1	1208.9	977.3
45°	881.4	877.4	923.6	976.5	1022.8	1077.2	1107.9	1103.8	1128.6	1262.6	1021.3
47.5°	974.7	975.4	1006.1	1051.3	1099.4	1126.4	1150.5	1136.0	1146.4	1319.2	1080.1
50°	1038.3	1043.9	1068.7	1114.9	1139.0	1180.4	1211.1	1202.3	1198.9	1353.2	1117.1
52.5°	1054.6	1071.3	1084.6	1142.3	1198.6	1264.1	1303.3	1322.1	1262.9	1364.7	1164.1
55°	931.8	946.6	993.6	1072.7	1221.1	1396.5	1450.6	1450.9	1346.6	1415.8	1197.1
57.5°	744.9	714.9	743.8	827.8	1032.4	1391.0	1522.3	1504.9	1388.4	1385.8	1168.6
60°	515.1	507.7	509.5	542.8	714.5	1106.4	1356.6	1379.1	1278.5	1201.1	925.1
62.5°	408.2	401.9	393.7	390.0	443.7	689.4	956.9	988.7	894.0	778.9	548.4
65°	319.7	316.0	317.1	331.9	331.6	391.1	523.2	510.3	408.5	302.0	172.4
67.5°	215.7	221.3	225.7	270.5	293.4	272.3	252.7	245.3	132.8	55.9	38.1
70°	121.4	122.1	126.9	169.1	222.8	211.3	174.3	174.3	66.2	20.4	21.8
72.5°	66.2	64.0	59.6	72.9	99.2	100.7	77.7	67.7	19.6	13.3	12.2
75°	32.2	31.8	27.4	22.6	21.5	17.8	13.7	12.6	8.9	8.5	7.4
77.5°	6.7	6.3	3.3	3.3	3.7	4.1	5.2	5.2	6.3	6.3	5.2
80°	0.0	0.0	0.4	1.5	2.6	3.7	4.4	4.4	5.2	5.2	4.1
82.5°	0.0	0.0	0.4	1.1	2.2	3.3	4.1	4.4	5.2	5.6	4.4
85°	0.0	0.0	0.0	0.7	1.9	2.6	2.2	2.2	1.9	1.5	0.7
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°	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6	876.6
2.5°	863.7	862.9	845.9	836.3	818.9	803.7	791.5	782.6	782.6	777.1	771.9
5°	839.2	833.0	796.7	773.4	740.4	716.0	699.4	686.4	666.1	671.6	649.8
7.5°	808.9	793.0	744.9	709.4	663.8	629.1	593.5	562.1	531.7	518.1	525.5
10°	776.3	748.6	683.8	627.6	571.0	507.3	465.9	415.6	384.5	382.6	374.5
12.5°	741.9	710.5	631.7	553.9	479.6	403.0	339.7	292.7	271.6	248.3	252.7
15°	716.0	669.4	573.6	479.9	381.1	303.8	240.2	203.9	183.9	178.4	176.5
17.5°	687.9	637.9	514.4	401.1	299.0	218.7	172.8	155.4	147.6	147.6	146.5
20°	658.7	602.4	455.5	327.9	224.2	163.2	138.4	132.8	132.5	132.1	132.1
22.5°	639.4	561.7	402.2	260.5	169.1	130.6	120.3	118.0	119.5	124.0	124.0
25°	619.1	522.5	343.4	200.9	131.0	112.1	106.2	107.7	111.4	115.5	114.0
27.5°	598.4	497.0	287.9	157.6	107.3	98.1	95.8	99.2	103.2	106.9	105.8
30°	593.5	469.6	235.3	119.5	92.1	85.5	87.0	89.9	94.0	95.5	97.0
32.5°	600.9	448.1	192.8	98.1	80.3	78.4	78.4	79.9	82.5	85.8	84.7
35°	622.0	435.9	152.5	85.1	73.6	71.8	71.4	72.9	74.4	75.5	74.4
37.5°	654.2	426.3	124.7	75.5	69.2	66.2	65.5	65.1	66.6	67.0	67.7
40°	695.3	431.5	105.8	69.6	64.8	61.4	59.2	59.2	59.2	60.3	60.7
42.5°	739.7	438.5	91.4	66.2	60.7	56.6	54.4	53.7	54.4	55.9	55.5
45°	786.3	452.2	82.1	61.1	57.0	51.8	48.8	48.1	50.0	52.9	52.5
47.5°	830.0	471.8	75.1	57.7	53.3	48.5	44.8	44.0	47.4	51.4	51.8
50°	873.7	505.8	72.5	55.1	50.7	45.1	41.8	41.1	44.8	50.0	51.1
52.5°	924.0	542.5	70.7	51.8	47.7	42.6	38.9	38.1	42.2	48.8	49.2
55°	956.9	573.6	69.2	45.9	42.2	38.5	35.5	35.2	39.6	45.5	47.0
57.5°	918.4	530.3	64.0	40.0	35.9	34.0	31.5	31.5	35.2	40.7	41.8
60°	696.4	348.9	45.5	32.2	30.3	29.2	28.1	28.1	31.1	35.2	35.5
62.5°	407.8	188.0	29.2	25.9	25.9	24.8	22.9	22.9	25.9	28.1	28.5
65°	121.0	60.3	23.7	22.2	21.8	20.0	18.1	17.8	20.0	21.1	20.7
67.5°	34.8	27.8	19.6	18.5	18.1	15.2	14.1	13.7	14.1	13.3	13.0
70°	20.7	18.9	15.2	15.5	13.7	11.1	10.0	9.6	8.9	7.8	7.0
72.5°	11.5	11.5	11.1	11.8	9.6	7.4	6.3	5.2	4.1	3.3	3.0
75°	7.0	7.4	7.8	8.1	6.3	4.8	4.1	2.6	1.5	0.7	0.7
77.5°	4.8	5.2	5.6	5.9	5.2	4.4	3.3	1.9	0.4	0.0	0.0
80°	3.7	4.1	4.8	5.2	5.6	5.9	4.4	1.9	0.4	0.0	0.0
82.5°	4.1	4.4	5.6	5.2	5.2	5.2	4.1	1.9	0.4	0.0	0.0
85°	0.7	1.1	1.9	1.9	2.6	3.3	2.6	0.7	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)