

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: P452565

Luminaire Tested: **GALN-SA3C-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19071 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

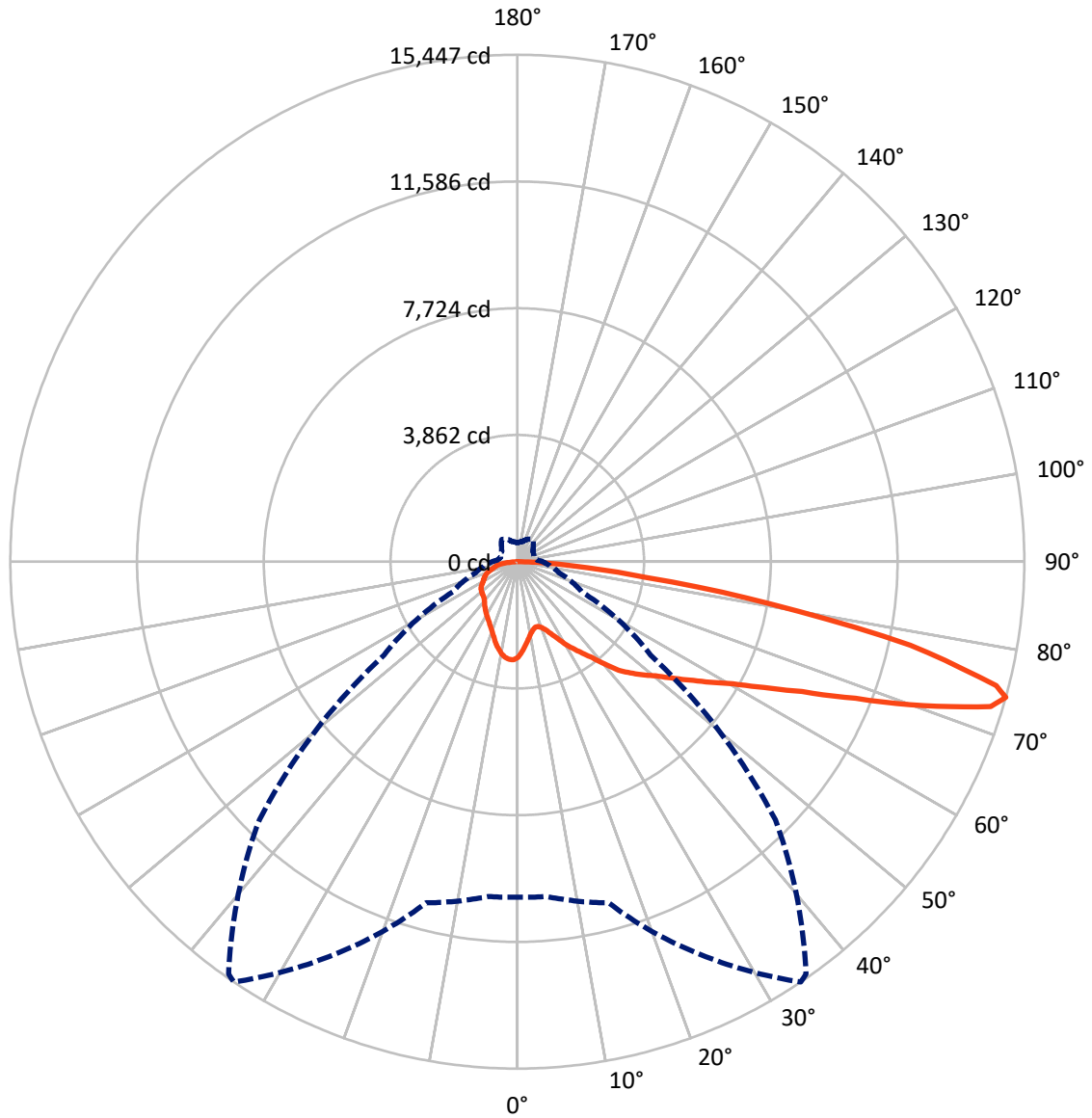
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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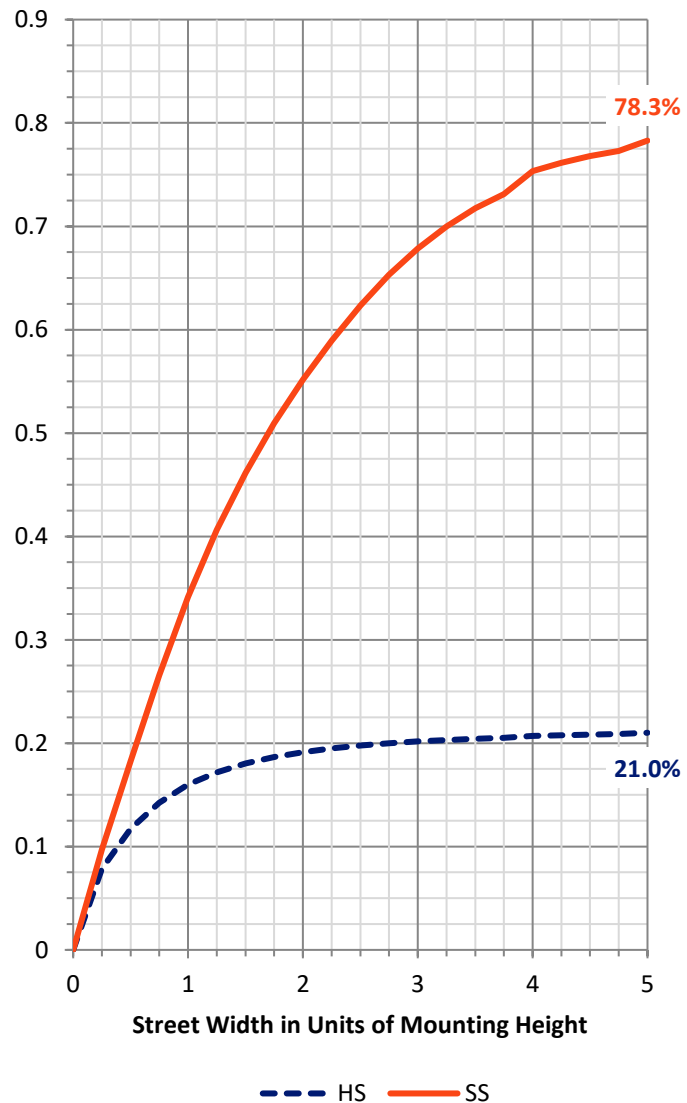
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4058.4	0.0	4058.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	15012.6	0.0	15012.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	19071.0	0.0	19071.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.8	1.4
10°-20°	724.9	3.8
20°-30°	1195.2	6.3
30°-40°	1790.3	9.4
40°-50°	2602.6	13.6
50°-60°	3635.2	19.1
60°-70°	4551.0	23.9
70°-80°	3763.3	19.7
80°-90°	543.8	2.9
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°	19071.0	100.0
0°-180°	19071.0	100.0



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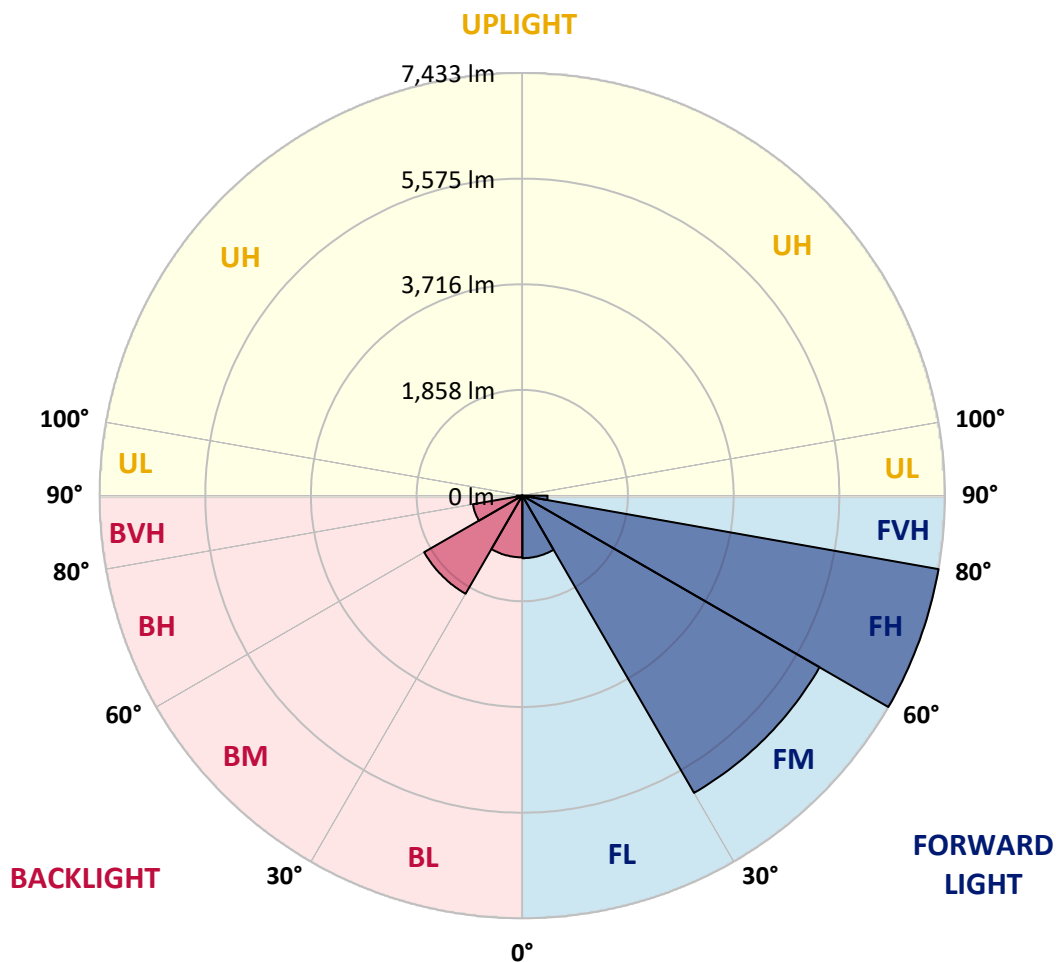
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.4	5.8			
FM (30°-60°)	6034.9	31.6			
FH (60°-80°)	7432.9	39.0			G3/7500
FVH (80°-90°)	445.5	2.3			G3/500
BL (0°-30°)	1085.6	5.7	B3/2500		
BM (30°-60°)	1993.1	10.5	B2/2500		
BH (60°-80°)	881.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	98.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8
2.5°	2691.0	2704.7	2712.1	2738.5	2744.8	2753.3	2775.5	2805.1	2843.1	2876.9	2906.5
5°	2467.0	2488.1	2500.8	2524.0	2569.5	2573.7	2632.8	2700.5	2777.6	2849.4	2908.6
7.5°	2254.6	2277.9	2288.4	2330.7	2390.9	2400.4	2487.0	2593.8	2722.6	2831.5	2922.3
10°	2095.1	2106.7	2129.9	2161.6	2233.5	2239.8	2352.9	2495.5	2662.4	2823.0	2945.6
12.5°	2008.4	2014.8	2020.1	2053.9	2124.7	2134.2	2252.5	2414.1	2614.9	2829.4	2983.6
15°	2021.1	2023.2	2000.0	2006.3	2063.4	2077.1	2194.4	2360.3	2585.3	2845.2	3040.7
17.5°	2127.8	2120.4	2063.4	2033.8	2073.9	2080.3	2182.8	2339.1	2571.6	2874.8	3099.8
20°	2295.8	2285.2	2187.0	2121.5	2144.7	2150.0	2220.8	2355.0	2585.3	2923.4	3191.7
22.5°	2505.0	2500.8	2351.8	2272.6	2271.5	2271.5	2308.5	2412.0	2626.5	2989.9	3287.9
25°	2797.7	2775.5	2581.1	2478.6	2450.1	2448.0	2443.7	2506.1	2679.3	3060.7	3402.0
27.5°	3097.7	3059.7	2886.4	2729.0	2667.7	2660.3	2632.8	2639.2	2746.9	3141.0	3531.9
30°	3367.1	3342.8	3180.1	3005.8	2932.9	2916.0	2839.9	2805.1	2860.0	3285.8	3739.0
32.5°	3573.1	3558.4	3431.6	3273.1	3165.3	3162.2	3051.2	3022.7	3036.4	3461.2	3975.7
35°	3740.1	3745.4	3680.9	3543.6	3419.9	3402.0	3328.0	3292.1	3252.0	3714.7	4273.6
37.5°	3968.3	3979.9	3975.7	3857.3	3706.3	3710.5	3693.6	3634.4	3527.7	3997.9	4604.3
40°	4219.7	4228.2	4227.1	4181.7	4102.5	4106.7	4100.3	4032.7	3873.2	4358.1	4972.0
42.5°	4567.3	4527.2	4422.6	4468.0	4514.5	4534.6	4577.9	4513.4	4294.7	4742.7	5317.5
45°	4956.1	4880.1	4643.4	4664.5	4836.7	4874.8	5113.5	5024.8	4752.2	5184.3	5724.2
47.5°	5201.2	5126.2	4926.5	4922.3	5150.5	5187.5	5610.1	5577.4	5168.5	5660.8	6220.8
50°	5419.9	5409.4	5184.3	5238.2	5461.1	5516.1	6151.0	6120.4	5583.7	6222.9	6761.7
52.5°	5744.3	5658.7	5479.1	5590.0	5884.8	5956.7	6687.8	6598.0	5965.1	6719.5	7286.8
55°	5890.1	5870.0	5859.5	5955.6	6360.2	6412.0	7209.7	7003.7	6290.5	7140.0	7686.2
57.5°	6279.9	6243.0	6347.6	6413.1	6920.2	6999.4	7754.8	7427.3	6575.8	7473.8	7880.6
60°	6785.0	6764.9	6861.0	6979.4	7545.7	7666.1	8376.1	7788.7	6805.0	7641.8	7773.9
62.5°	7539.3	7537.2	7519.2	7772.8	8432.1	8543.0	9089.2	8140.5	6841.0	7516.1	7222.4
65°	8621.2	8583.2	8426.8	8703.6	9535.1	9665.0	9832.0	8337.0	6624.4	6870.5	6081.3
67.5°	9752.7	9750.6	9623.8	9983.0	11118.8	11253.0	10760.6	8293.7	6023.2	5565.7	4319.0
70°	10690.9	10645.5	10807.1	11764.3	13142.0	13297.3	11573.1	7783.4	4797.6	3675.6	2566.3
72.5°	10915.9	10918.1	11254.0	13137.8	15085.0	15109.3	11865.8	6308.5	3210.8	2027.5	1283.7
74°	10222.9	10240.8	10761.7	13206.5	15447.4	15337.5	11117.7	4958.2	2171.1	1323.8	925.5
75°	9331.2	9218.1	9971.4	12749.0	15071.2	14952.9	10241.9	3978.8	1656.6	1057.6	810.3
77.5°	4988.9	5104.0	6266.2	9513.9	12244.0	12107.7	6944.5	1908.1	894.9	736.4	583.2
80°	1776.0	1958.8	2753.3	4978.3	7849.9	7892.2	3314.3	874.8	629.7	543.1	412.0
82.5°	724.8	744.8	1182.2	2209.2	3986.2	4024.3	1353.4	519.8	450.1	374.0	246.2
85°	283.1	291.6	523.0	993.1	1701.0	1811.9	468.0	274.7	276.8	214.5	125.7
87.5°	95.1	107.8	214.5	330.7	577.9	566.3	136.3	81.4	99.3	93.0	39.1
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°	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8	2911.8
2.5°	2921.3	2941.3	2955.1	2969.9	2983.6	2987.8	2984.7	2994.2	2995.2	2996.3	2997.3
5°	2938.2	2965.6	2992.1	3006.9	3013.2	3007.9	2989.9	2980.4	2972.0	2965.6	2967.8
7.5°	2961.4	3000.5	3024.8	3031.2	3014.2	2989.9	2945.6	2910.7	2888.5	2873.7	2872.7
10°	2997.3	3035.4	3055.5	3037.5	2991.0	2931.8	2862.1	2796.6	2746.9	2732.2	2731.1
12.5°	3042.8	3086.1	3085.0	3032.2	2950.9	2845.2	2732.2	2656.1	2588.5	2554.7	2568.4
15°	3101.9	3134.7	3104.1	3009.0	2880.1	2735.3	2595.9	2492.3	2416.3	2380.3	2382.4
17.5°	3170.6	3199.1	3117.8	2967.8	2780.8	2594.8	2433.2	2334.9	2274.7	2248.3	2246.2
20°	3256.2	3264.6	3117.8	2895.9	2652.9	2431.0	2276.8	2208.1	2174.3	2160.6	2164.8
22.5°	3348.1	3331.2	3100.9	2794.5	2484.9	2259.9	2156.4	2125.7	2108.8	2106.7	2108.8
25°	3451.6	3404.1	3066.0	2657.1	2309.5	2112.0	2051.8	2057.0	2060.2	2060.2	2067.6
27.5°	3578.4	3483.3	3007.9	2483.9	2104.6	1974.6	1957.7	1994.7	2011.6	2014.8	2020.1
30°	3745.4	3570.0	2911.8	2267.3	1930.3	1851.0	1880.6	1930.3	1949.3	1960.9	1958.8
32.5°	3944.0	3665.1	2781.8	2050.7	1789.7	1764.4	1800.3	1851.0	1872.2	1878.5	1870.0
35°	4177.5	3772.8	2610.7	1847.9	1667.2	1682.0	1724.2	1740.1	1759.1	1759.1	1763.3
37.5°	4428.9	3859.5	2401.5	1661.9	1572.1	1626.0	1656.6	1641.8	1633.4	1622.8	1628.1
40°	4684.6	3923.9	2129.9	1478.1	1477.0	1567.9	1576.3	1534.1	1500.3	1489.7	1484.4
42.5°	4907.5	3964.1	1884.8	1335.4	1387.2	1510.8	1517.2	1449.5	1395.7	1364.0	1353.4
45°	5170.6	4010.5	1645.0	1217.1	1303.7	1465.4	1481.2	1390.4	1311.1	1244.6	1227.7
47.5°	5530.9	4116.2	1455.9	1125.2	1243.5	1436.9	1459.1	1341.8	1237.2	1150.5	1136.8
50°	5937.6	4260.9	1309.0	1062.9	1197.0	1411.5	1439.0	1292.1	1168.5	1072.4	1061.8
52.5°	6310.6	4339.1	1182.2	1006.9	1151.6	1365.0	1412.6	1256.2	1100.9	994.2	984.7
55°	6514.5	4212.3	1057.6	951.9	1089.3	1304.8	1375.6	1206.5	1035.4	953.0	939.2
57.5°	6542.0	3950.3	944.5	892.8	1023.8	1230.8	1306.9	1146.3	993.1	924.5	912.8
60°	6329.6	3559.4	856.8	844.2	957.2	1147.4	1229.8	1093.5	949.8	892.8	881.1
62.5°	5801.3	3134.7	795.6	799.8	889.6	1059.7	1172.7	1042.8	908.6	857.9	847.3
65°	4892.7	2587.4	736.4	754.4	829.4	991.0	1121.0	1000.5	867.4	831.5	822.0
67.5°	3398.8	1867.9	687.8	706.8	772.3	921.3	1060.7	955.1	820.9	801.9	787.1
70°	1881.7	1149.5	630.7	652.9	713.1	843.1	993.1	886.4	753.3	744.8	723.7
72.5°	988.9	732.2	566.3	590.6	632.9	742.7	889.6	811.4	686.7	650.8	623.3
74°	772.3	600.1	523.0	548.3	576.9	683.6	828.3	757.5	639.2	596.9	575.8
75°	673.0	534.6	486.0	518.8	544.1	643.4	780.8	719.5	612.8	572.6	553.6
77.5°	475.4	400.4	397.3	436.3	450.1	564.2	703.6	655.0	546.2	504.0	486.0
80°	333.9	300.1	314.8	339.1	358.2	498.7	652.9	566.3	448.0	398.3	392.0
82.5°	217.6	196.5	225.0	247.2	253.6	367.7	527.2	430.0	326.5	265.2	246.2
85°	100.4	98.3	128.9	125.7	124.7	179.6	312.7	251.5	188.1	140.5	132.1
87.5°	25.4	24.3	31.7	26.4	31.7	27.5	28.5	7.4	1.1	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)