

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: P452685

Luminaire Tested: **GALN-SA3C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17405 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 160
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

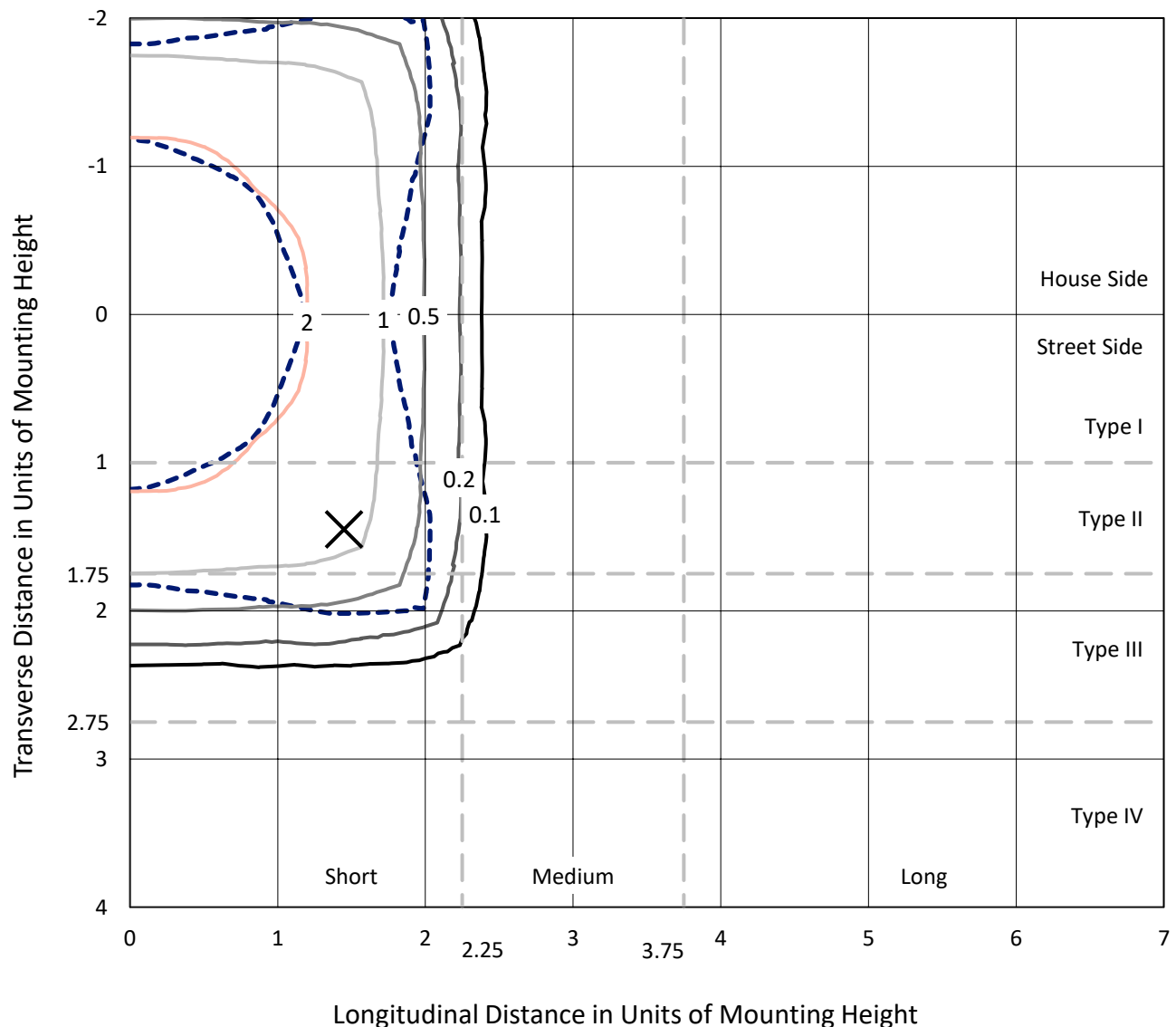


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

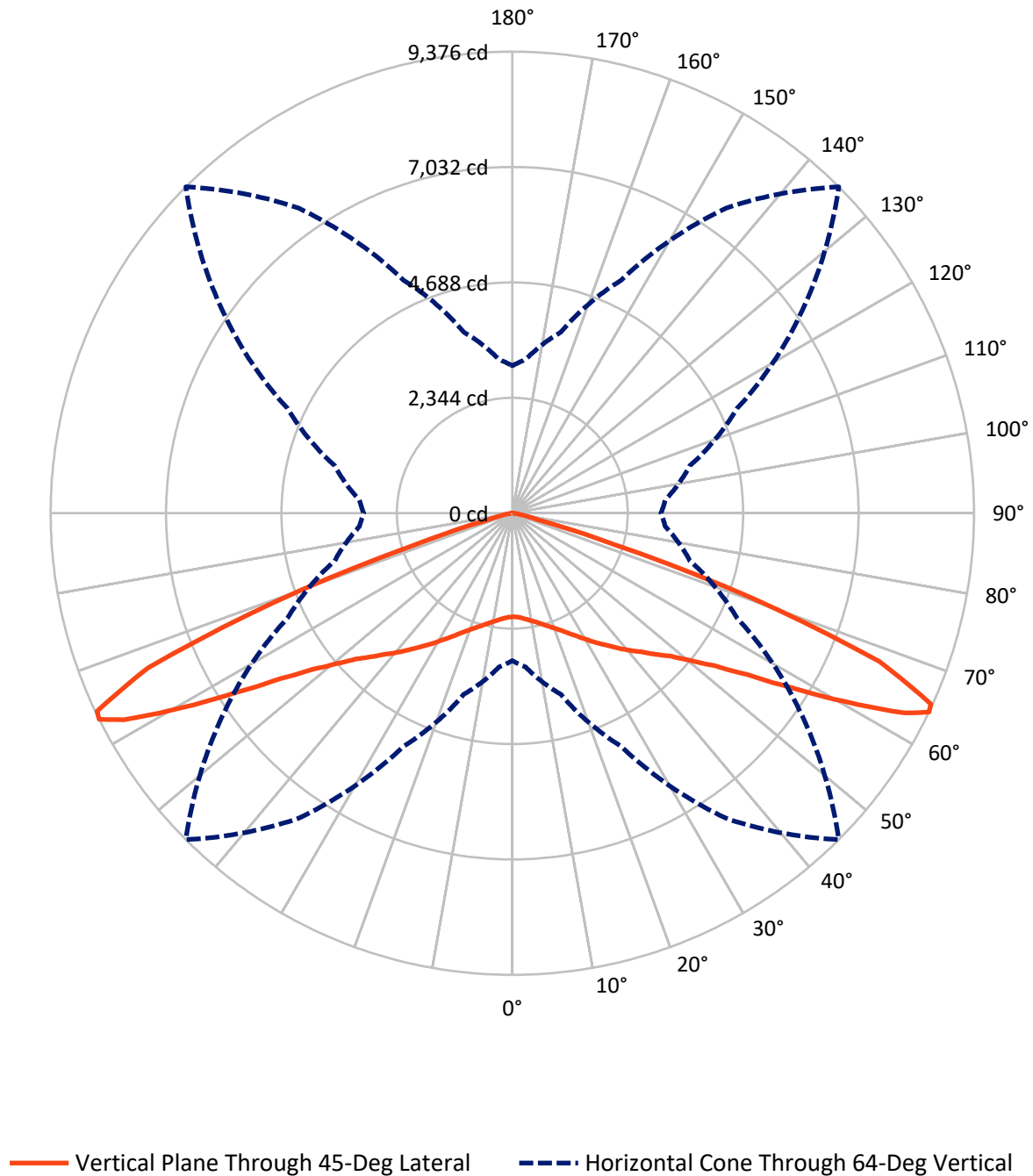


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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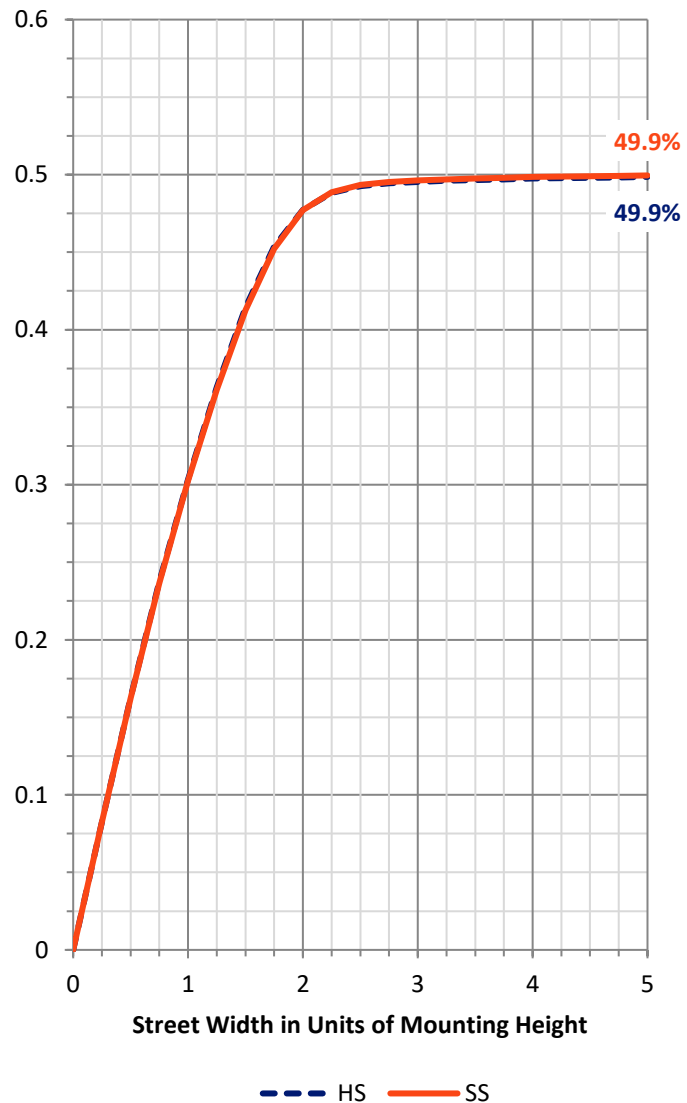
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8702.5	0.0	8702.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8702.5	0.0	8702.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17405.0	0.0	17405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.2
10°-20°	666.7	3.8
20°-30°	1259.8	7.2
30°-40°	2086.3	12.0
40°-50°	3257.1	18.7
50°-60°	5035.4	28.9
60°-70°	4342.0	24.9
70°-80°	492.1	2.8
80°-90°	59.0	0.3
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°	17405.0	100.0
0°-180°	17405.0	100.0

Coefficient of Utilization



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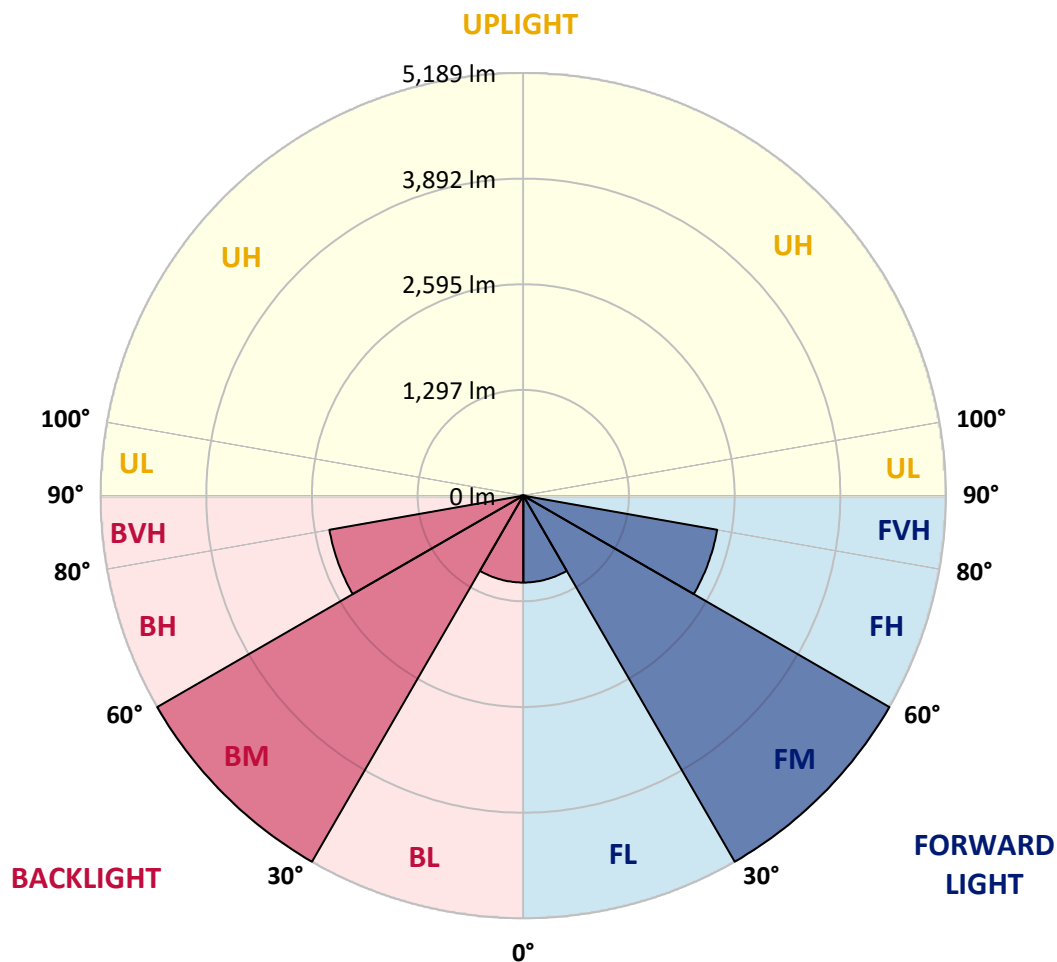
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1066.6	6.1			
FM	(30°-60°)	5189.4	29.8			
FH	(60°-80°)	2417.0	13.9			G2/5000
FVH	(80°-90°)	29.5	0.2			G1/100
BL	(0°-30°)	1066.6	6.1	B3/2500		
BM	(30°-60°)	5189.4	29.8	B4/8500		
BH	(60°-80°)	2417.0	13.9	B3/2500		G2/5000
BVH	(80°-90°)	29.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7
2.5°	2112.0	2116.6	2112.9	2112.0	2111.1	2111.1	2111.1	2112.0	2115.7	2118.4	2116.6
5°	2138.7	2142.4	2140.6	2139.6	2138.7	2139.6	2137.8	2136.9	2139.6	2139.6	2138.7
7.5°	2171.9	2176.5	2174.7	2176.5	2177.4	2178.4	2173.7	2170.1	2169.1	2171.9	2170.1
10°	2217.1	2220.8	2221.7	2222.6	2224.5	2223.5	2218.0	2211.5	2210.6	2209.7	2208.8
12.5°	2267.8	2270.5	2271.5	2275.2	2277.9	2278.8	2272.4	2266.9	2257.6	2259.5	2255.8
15°	2324.9	2330.5	2329.5	2335.1	2342.4	2344.3	2337.8	2328.6	2320.3	2315.7	2312.9
17.5°	2395.0	2398.7	2396.8	2402.4	2411.6	2416.2	2410.7	2398.7	2390.4	2380.2	2374.7
20°	2478.0	2484.4	2486.3	2486.3	2494.6	2499.2	2490.9	2487.2	2474.3	2466.9	2462.3
22.5°	2572.0	2574.8	2580.3	2585.8	2594.1	2592.3	2589.5	2584.0	2572.0	2565.5	2558.2
25°	2678.0	2680.8	2694.6	2706.6	2709.3	2707.5	2703.8	2701.1	2690.0	2675.2	2669.7
27.5°	2801.5	2807.1	2825.5	2836.6	2836.6	2837.5	2830.1	2839.3	2815.4	2797.8	2796.0
30°	2956.4	2960.1	2975.8	2986.8	2981.3	2976.7	2974.8	2984.1	2958.3	2926.9	2919.5
32.5°	3109.4	3122.3	3136.2	3160.1	3140.8	3132.5	3130.6	3137.1	3107.6	3072.6	3062.4
35°	3273.5	3282.7	3308.6	3328.8	3311.3	3292.0	3300.3	3320.5	3285.5	3238.5	3236.7
37.5°	3455.1	3463.4	3496.6	3517.8	3504.9	3471.7	3485.6	3509.5	3474.5	3416.4	3404.4
40°	3644.1	3661.6	3703.1	3725.2	3704.0	3659.8	3685.6	3711.4	3680.1	3612.8	3586.0
42.5°	3856.1	3883.8	3943.7	3954.8	3914.2	3854.3	3899.5	3941.0	3918.8	3841.4	3831.3
45°	4104.1	4120.7	4194.5	4218.4	4162.2	4087.5	4143.8	4219.4	4202.8	4113.3	4094.0
47.5°	4381.6	4397.3	4473.8	4509.7	4438.8	4338.3	4439.7	4538.3	4528.2	4432.3	4423.1
50°	4709.8	4713.5	4819.5	4860.1	4789.1	4702.4	4792.8	4915.4	4874.8	4752.2	4750.3
52.5°	5069.3	5073.9	5207.6	5286.0	5246.3	5148.6	5255.5	5330.2	5227.0	5066.5	5054.6
55°	5380.9	5403.9	5586.5	5794.8	5849.2	5778.2	5810.5	5775.5	5521.0	5296.1	5261.1
57.5°	5508.1	5553.3	5830.8	6219.8	6573.8	6678.9	6430.0	6096.3	5638.1	5320.1	5286.0
60°	5197.5	5246.3	5676.8	6415.2	7318.7	7775.0	7075.3	6150.7	5371.7	4924.6	4871.1
62.5°	4162.2	4176.0	4809.3	5955.2	7752.9	8934.7	7347.2	5687.0	4596.4	3988.9	3967.7
64°	2995.1	3137.1	3808.2	5221.4	7562.9	9376.2	7190.5	5037.0	3733.5	3118.7	3019.1
65°	2240.1	2278.8	3069.8	4459.0	7228.3	9343.1	6886.3	4415.7	3091.9	2386.7	2276.1
67.5°	846.3	850.9	1133.0	2222.6	5145.8	8038.6	5255.5	2402.4	1302.6	942.1	908.0
70°	351.2	357.7	415.8	747.6	2211.5	5161.5	2534.2	866.5	476.6	386.3	380.7
72.5°	257.2	260.9	278.4	331.9	680.3	2119.4	833.4	367.8	279.3	249.8	247.1
75°	201.9	203.7	216.6	244.3	317.1	587.2	346.6	252.6	212.9	191.7	189.9
77.5°	154.0	158.6	167.8	186.2	212.9	278.4	229.5	189.0	164.1	146.6	143.8
80°	106.0	111.5	129.1	136.4	142.9	180.7	156.7	142.9	128.1	106.9	100.5
82.5°	65.5	69.1	86.7	93.1	90.3	101.4	100.5	102.3	91.3	66.4	61.8
85°	34.1	36.0	47.0	48.9	45.2	41.5	51.6	59.9	56.2	37.8	36.9
87.5°	7.4	8.3	10.1	9.2	10.1	10.1	12.9	19.4	20.3	12.9	12.0
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)