

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: STREETWORKS

Report Number: P316549

Luminaire Tested: **GAN-SA5A-760-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-760-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24467 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

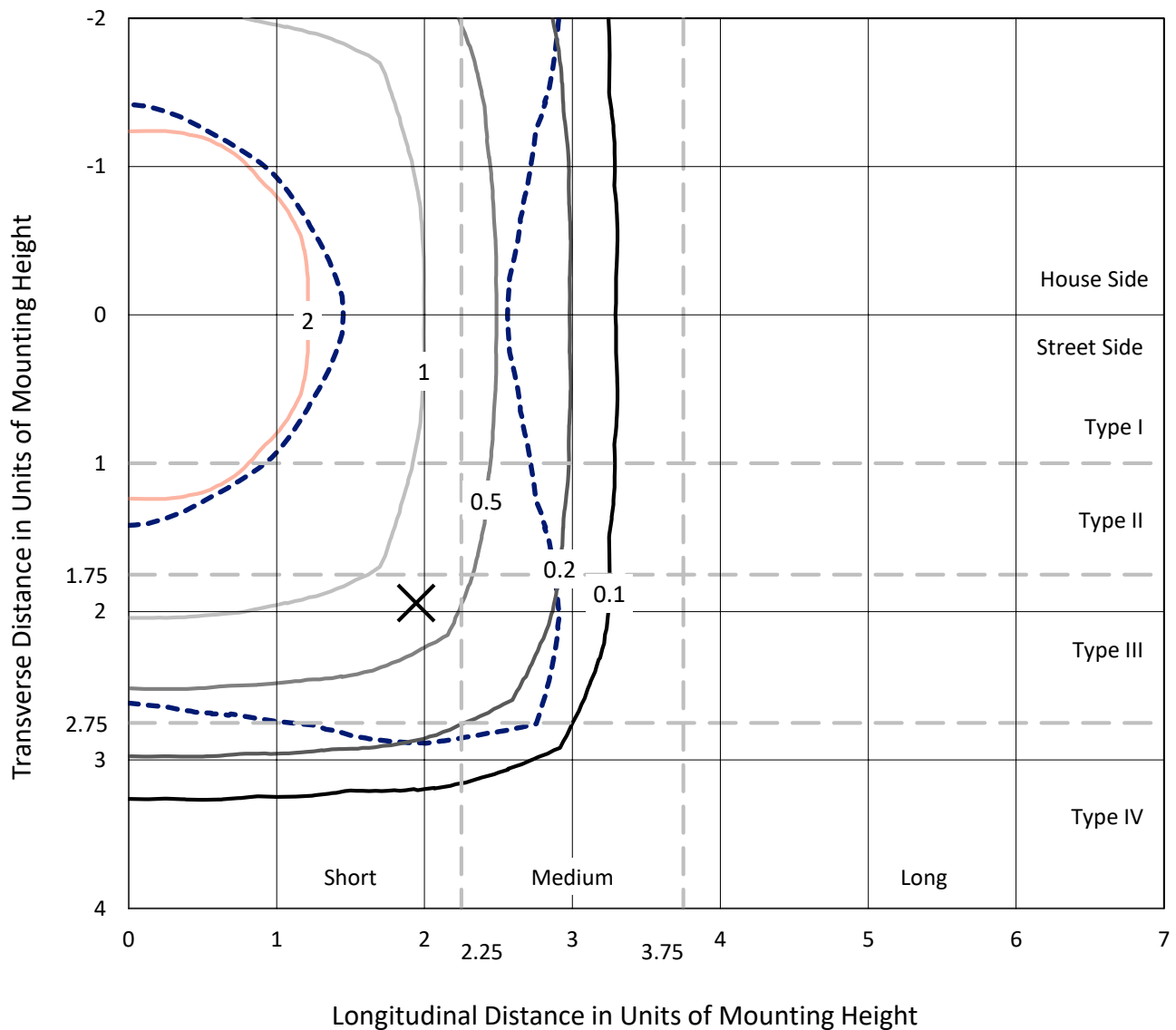
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

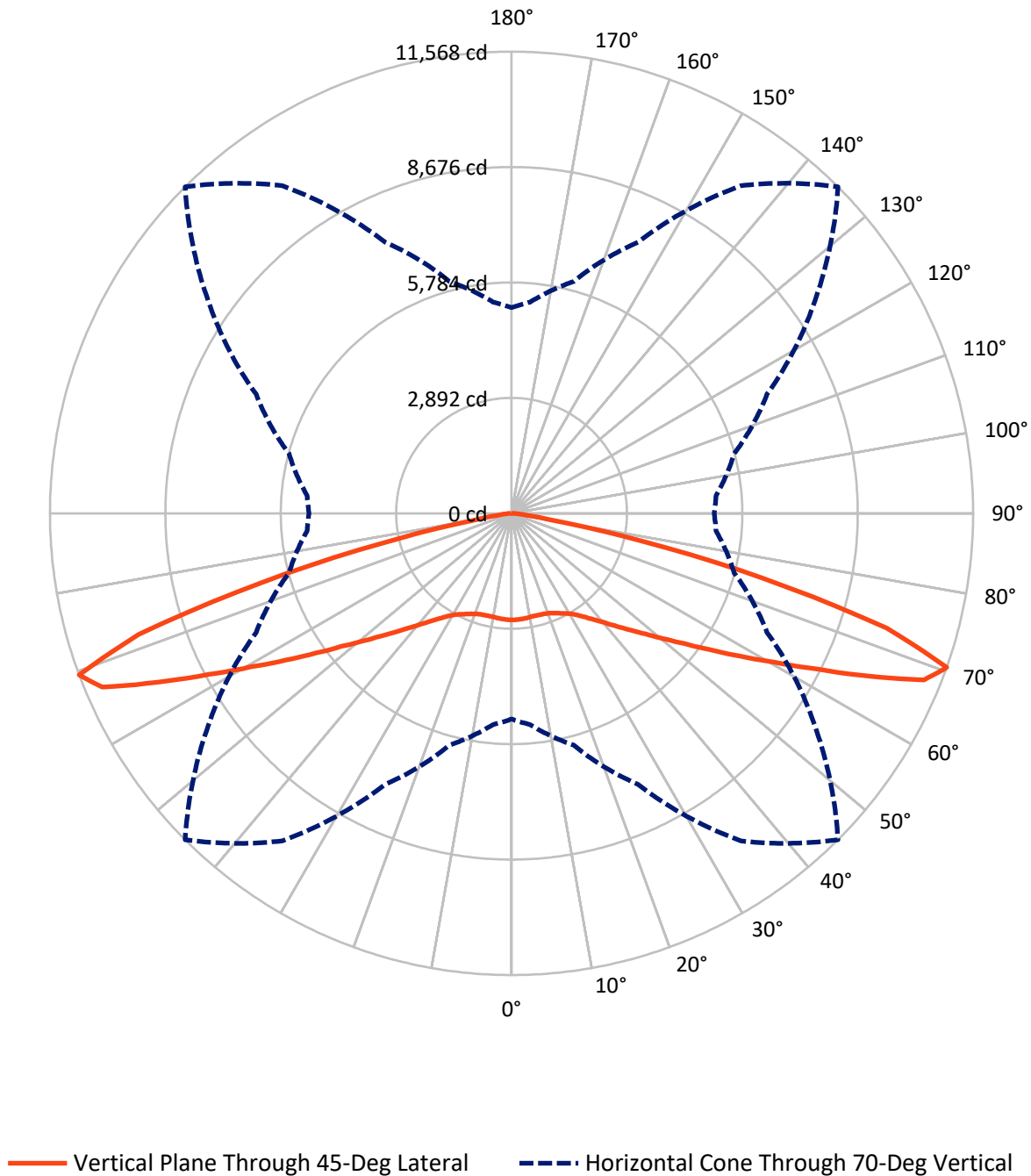
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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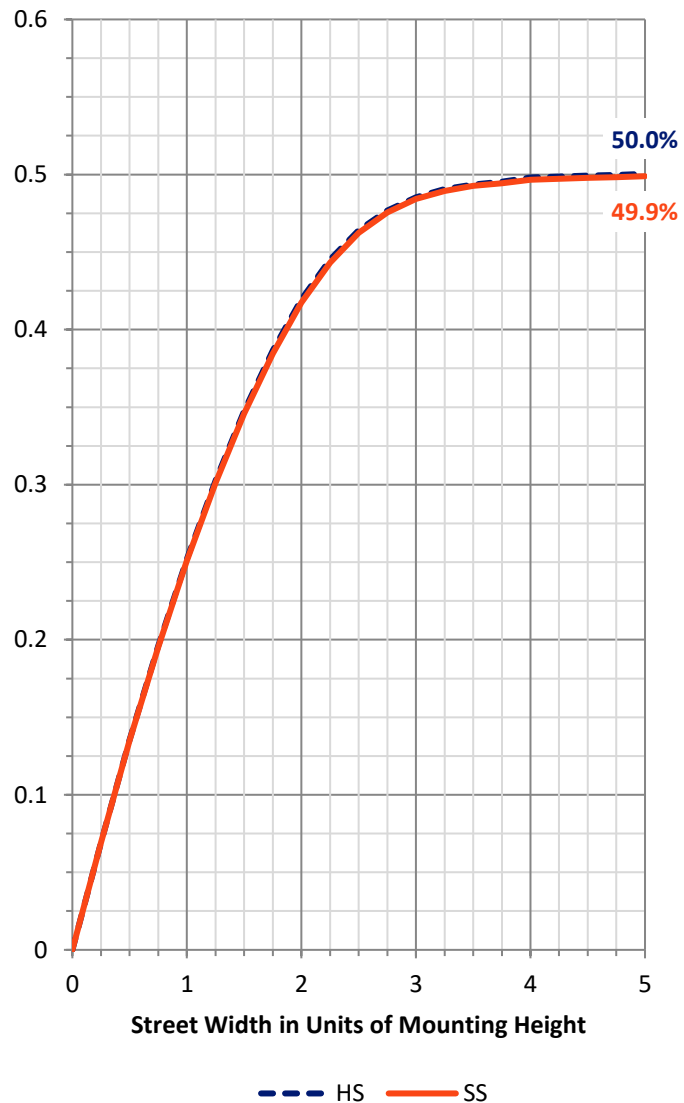
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12233.5	0.0	12233.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12233.5	0.0	12233.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24467.0	0.0	24467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	1.0
10°-20°	743.0	3.0
20°-30°	1264.8	5.2
30°-40°	2006.0	8.2
40°-50°	3264.3	13.3
50°-60°	5382.3	22.0
60°-70°	7901.4	32.3
70°-80°	3494.0	14.3
80°-90°	158.2	0.6
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°	24467.0	100.0
0°-180°	24467.0	100.0

Coefficient of Utilization



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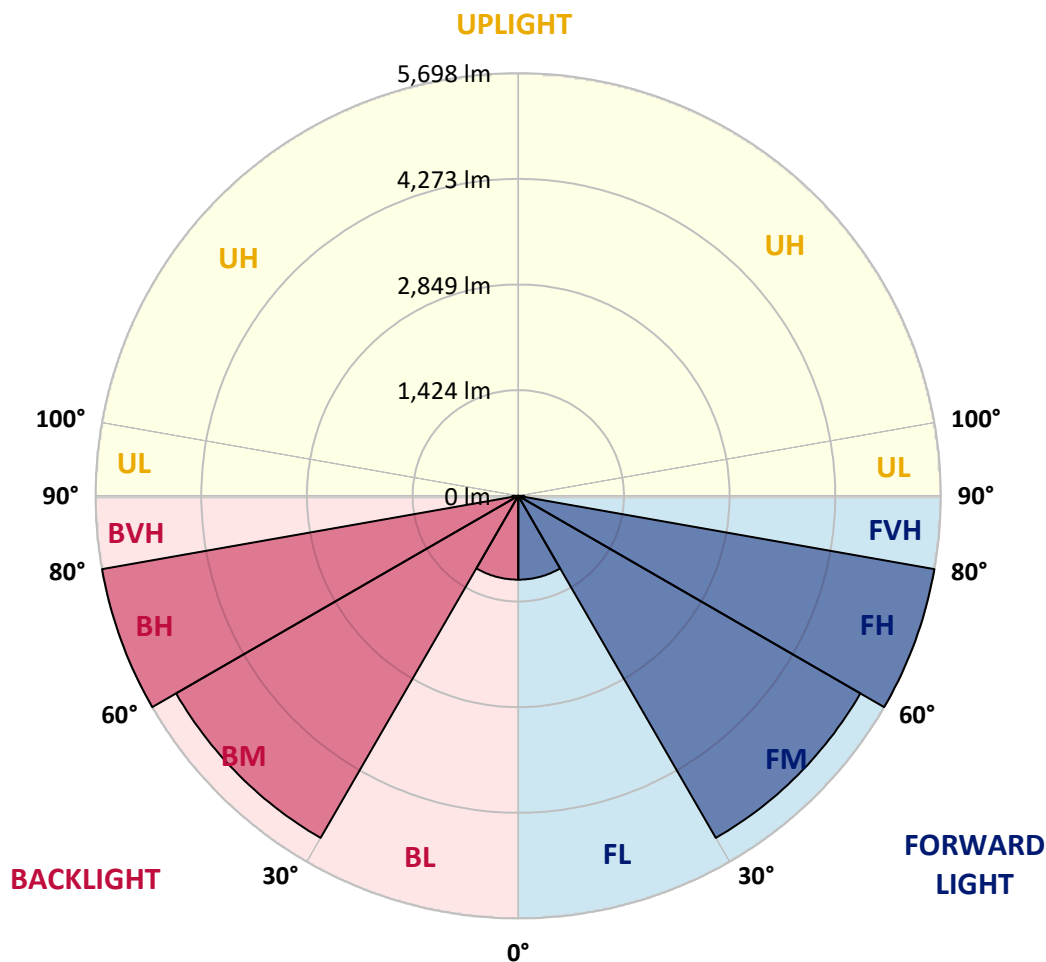
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1130.4	4.6			
FM	(30°-60°)	5326.3	21.8			
FH	(60°-80°)	5697.7	23.3			G3/7500
FVH	(80°-90°)	79.1	0.3			G1/100
BL	(0°-30°)	1130.4	4.6	B3/2500		
BM	(30°-60°)	5326.3	21.8	B4/8500		
BH	(60°-80°)	5697.7	23.3	B5		G3/7500
BVH	(80°-90°)	79.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2672.2	2672.2	2672.2	2672.2	2672.2	2672.2	2672.2	2672.2	2672.2	2672.2	2672.2
2.5°	2668.1	2665.7	2671.4	2670.6	2665.7	2666.5	2666.5	2668.9	2668.9	2667.3	2667.3
5°	2658.4	2656.8	2663.3	2663.3	2658.4	2660.0	2661.7	2664.1	2663.3	2661.7	2660.8
7.5°	2646.3	2645.5	2651.9	2651.9	2648.7	2650.3	2648.7	2649.5	2647.9	2646.3	2643.8
10°	2626.0	2627.6	2633.3	2634.9	2634.9	2635.7	2634.1	2630.1	2627.6	2625.2	2622.8
12.5°	2607.4	2606.6	2614.7	2618.7	2625.2	2632.5	2627.6	2616.3	2611.4	2606.6	2605.0
15°	2595.3	2596.1	2604.2	2611.4	2622.8	2638.2	2632.5	2614.7	2605.0	2599.3	2597.7
17.5°	2592.8	2594.4	2605.0	2617.9	2630.1	2647.1	2643.8	2626.0	2609.8	2599.3	2596.9
20°	2598.5	2599.3	2615.5	2634.1	2655.2	2671.4	2664.1	2644.6	2622.8	2606.6	2602.5
22.5°	2609.0	2612.3	2632.5	2661.7	2694.0	2715.9	2707.0	2673.8	2639.8	2619.5	2613.9
25°	2642.2	2643.0	2670.6	2710.2	2749.1	2774.2	2763.7	2716.7	2673.0	2650.3	2643.0
27.5°	2711.0	2713.5	2741.0	2787.2	2820.4	2836.6	2830.1	2792.0	2754.8	2730.5	2732.9
30°	2810.6	2813.9	2844.7	2895.7	2915.9	2920.0	2918.3	2900.5	2866.5	2834.1	2836.6
32.5°	2932.1	2933.7	2975.0	3021.2	3037.4	3040.6	3037.4	3021.2	2980.7	2937.0	2939.4
35°	3088.4	3093.2	3132.9	3177.5	3190.4	3196.9	3191.2	3170.2	3128.1	3085.1	3083.5
37.5°	3281.1	3281.9	3323.2	3369.4	3385.6	3387.2	3380.7	3366.9	3314.3	3275.4	3273.0
40°	3504.6	3507.8	3556.4	3605.8	3612.3	3605.0	3613.9	3605.8	3551.6	3507.0	3514.3
42.5°	3776.7	3784.0	3842.3	3890.9	3872.2	3868.2	3873.8	3876.3	3832.5	3778.3	3773.4
45°	4093.3	4099.8	4172.6	4211.5	4199.4	4172.6	4184.0	4203.4	4142.7	4075.5	4082.0
47.5°	4454.4	4470.6	4548.4	4584.8	4554.8	4518.4	4540.3	4569.4	4498.2	4414.8	4410.7
50°	4856.1	4876.3	4980.0	5031.0	5001.0	4933.8	4970.2	4989.7	4886.8	4779.1	4770.2
52.5°	5284.4	5304.7	5435.0	5540.3	5520.9	5416.4	5467.4	5447.2	5329.0	5184.0	5172.7
55°	5769.5	5777.6	5918.5	6088.5	6107.9	6031.0	6027.8	5994.6	5819.7	5652.1	5644.0
57.5°	6268.3	6273.9	6456.1	6657.0	6748.5	6748.5	6657.8	6587.3	6354.9	6160.6	6140.3
60°	6806.8	6827.0	7028.6	7301.5	7515.3	7578.5	7418.1	7226.2	6973.6	6736.3	6712.8
62.5°	7286.1	7309.6	7618.1	8024.6	8368.0	8597.9	8206.0	7893.4	7433.5	7052.9	7008.4
65°	7346.9	7410.0	7859.4	8595.5	9364.0	9823.1	9071.6	8301.6	7463.5	6934.7	6889.4
67.5°	6709.6	6816.5	7423.8	8569.6	10157.5	11143.0	9624.7	8068.4	6925.8	6341.2	6291.0
70°	5155.7	5311.2	6011.6	7495.9	10020.7	11568.1	9278.1	7063.5	5774.3	5145.2	5074.7
72.5°	2828.5	2892.4	3522.4	5133.0	8033.5	9830.4	7738.8	5222.9	3829.3	3115.9	2997.7
75°	897.2	919.9	1240.5	2100.5	4544.3	6511.2	4916.0	2563.7	1411.4	1040.5	1028.4
77.5°	398.4	400.8	448.6	613.0	1565.2	3298.9	1880.2	698.0	481.0	420.3	434.0
80°	251.8	251.8	277.7	303.7	425.9	957.9	508.5	332.0	283.4	263.2	268.8
82.5°	120.7	133.6	180.6	194.3	234.0	322.3	260.7	217.0	189.5	140.9	131.2
85°	79.4	66.4	114.2	128.8	136.0	154.7	151.4	143.3	123.9	70.4	78.5
87.5°	35.6	34.0	59.1	54.3	51.0	38.9	58.3	72.1	69.6	34.8	34.8
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)