

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: P317268

Luminaire Tested: **GAN-SA4A-830-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15269 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 129
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

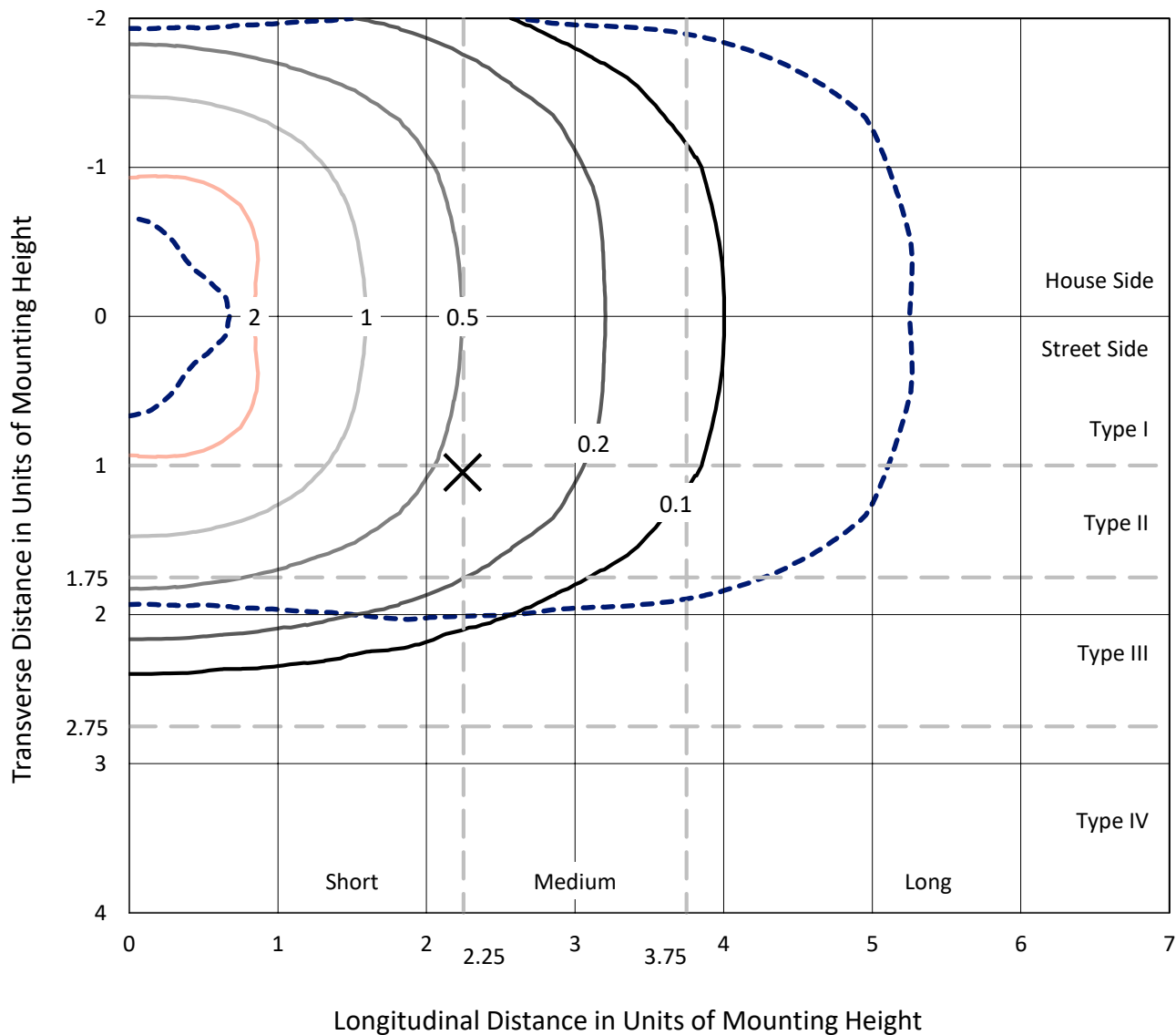


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Iso-Footcandle Lines of Horizontal Illumination

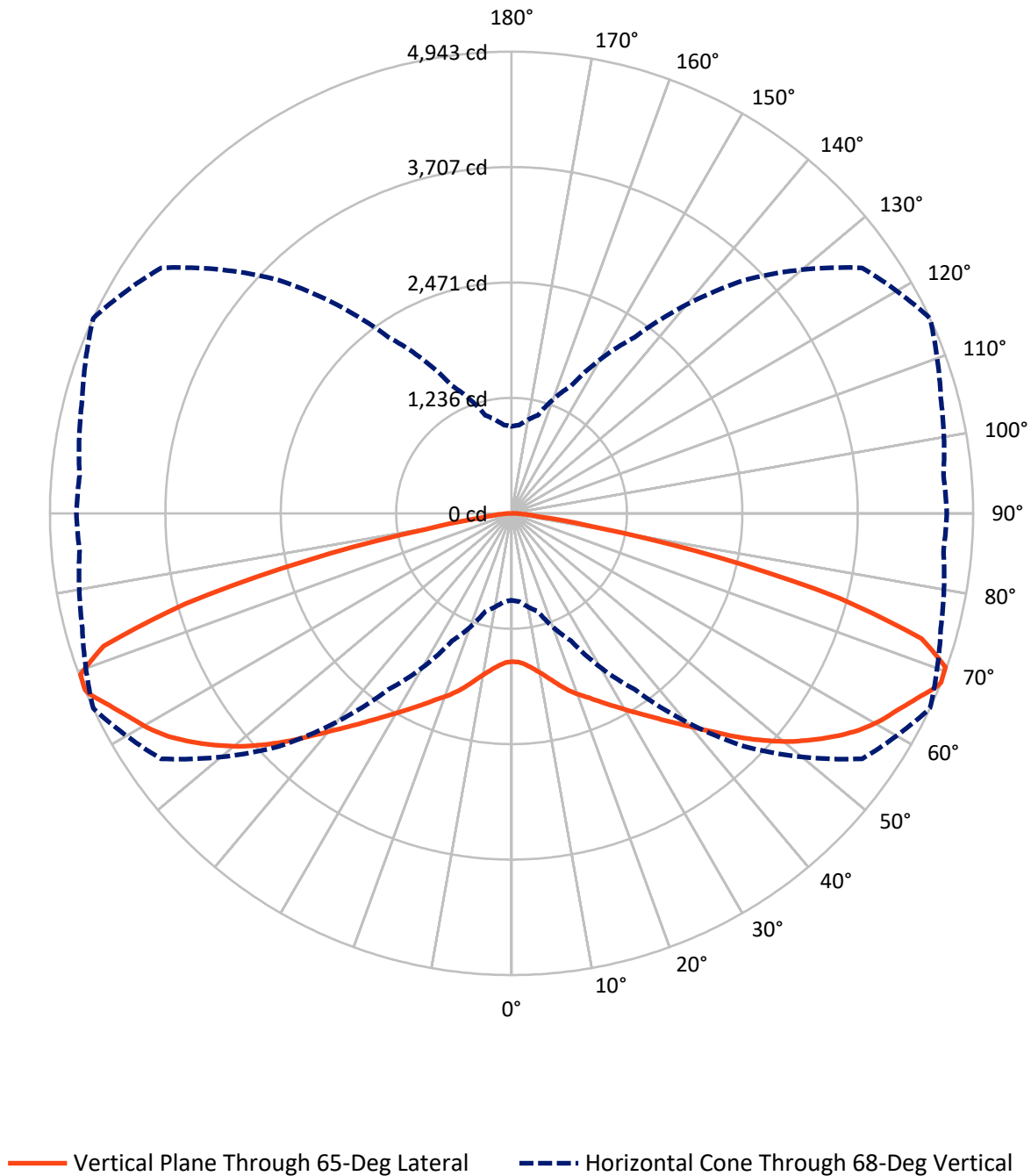
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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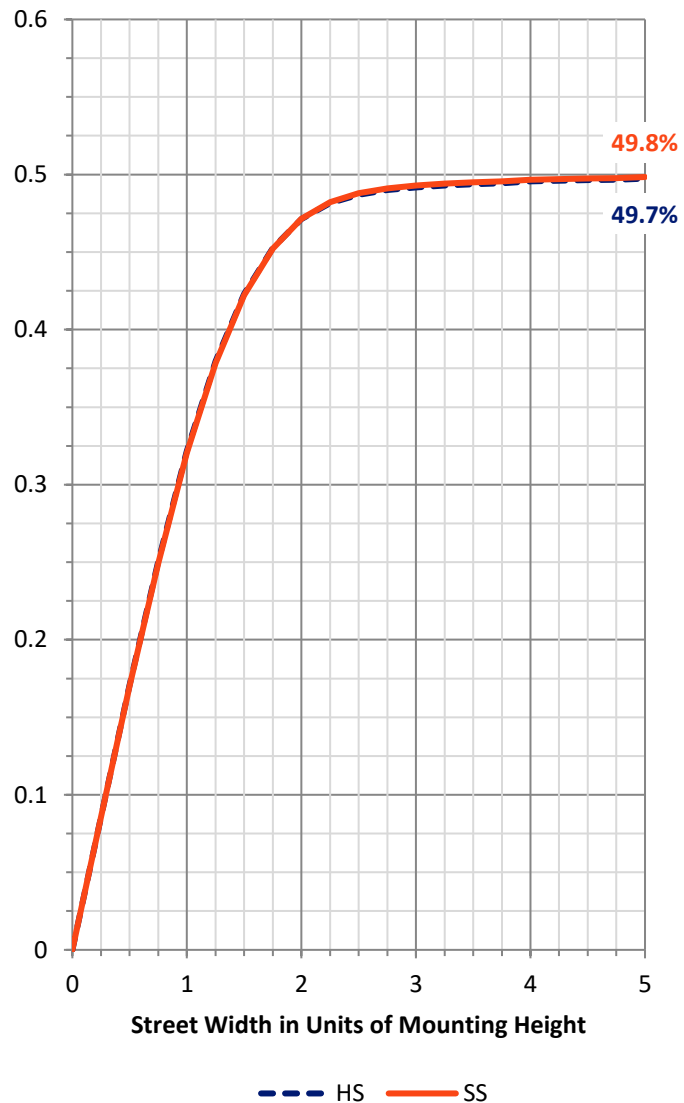
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7634.5	0.0	7634.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7634.5	0.0	7634.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15269.0	0.0	15269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.0
10°-20°	520.5	3.4
20°-30°	1014.8	6.6
30°-40°	1704.8	11.2
40°-50°	2686.1	17.6
50°-60°	3592.2	23.5
60°-70°	3492.1	22.9
70°-80°	1909.0	12.5
80°-90°	194.1	1.3
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°	15269.0	100.0
0°-180°	15269.0	100.0

Coefficient of Utilization



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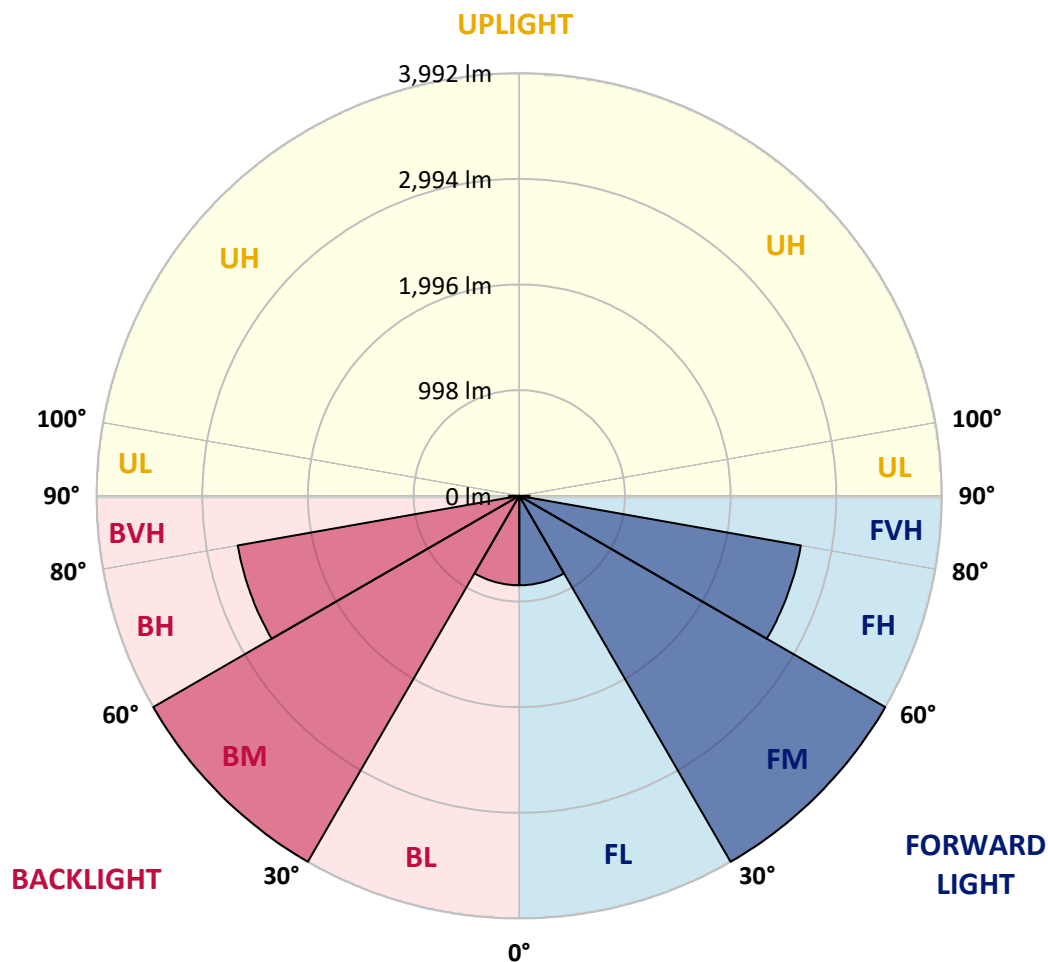
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	845.3	5.5			
FM	(30°-60°)	3991.6	26.1			
FH	(60°-80°)	2700.5	17.7			G2/5000
FVH	(80°-90°)	97.1	0.6			G1/100
BL	(0°-30°)	845.3	5.5	B2/1000		
BM	(30°-60°)	3991.6	26.1	B3/5000		
BH	(60°-80°)	2700.5	17.7	B4/5000		G4/5000
BVH	(80°-90°)	97.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6
2.5°	1576.4	1576.9	1579.4	1582.5	1585.1	1591.7	1593.2	1595.8	1596.8	1599.4	1599.4
5°	1562.5	1563.6	1569.7	1577.9	1587.1	1603.5	1615.3	1628.6	1635.2	1642.4	1641.9
7.5°	1561.0	1563.6	1572.3	1585.6	1600.9	1628.1	1652.6	1679.3	1697.2	1713.6	1712.5
10°	1576.9	1581.0	1593.2	1613.2	1636.3	1670.0	1706.4	1742.2	1773.5	1798.5	1799.6
12.5°	1600.9	1606.0	1625.5	1655.7	1690.5	1734.0	1777.0	1817.5	1860.5	1897.9	1900.9
15°	1632.7	1639.3	1668.5	1713.6	1766.8	1818.5	1864.6	1906.1	1955.7	2007.4	2012.6
17.5°	1679.8	1689.0	1727.4	1788.3	1858.4	1915.3	1963.4	1994.6	2036.1	2089.3	2099.1
20°	1751.4	1763.2	1811.9	1884.6	1970.1	2029.4	2066.3	2073.0	2093.4	2141.1	2152.3
22.5°	1844.6	1854.9	1909.1	1995.7	2091.4	2155.9	2175.4	2148.7	2146.7	2185.1	2195.8
25°	1948.6	1957.8	2020.7	2118.0	2220.9	2292.1	2291.6	2239.9	2204.0	2233.7	2245.0
27.5°	2065.3	2079.6	2140.0	2242.4	2352.5	2422.6	2418.5	2338.7	2270.6	2278.3	2288.0
30°	2199.4	2215.3	2274.2	2378.1	2488.2	2556.8	2551.7	2446.2	2343.8	2323.3	2330.5
32.5°	2365.8	2384.8	2440.6	2543.0	2640.2	2702.2	2687.3	2562.9	2431.9	2387.3	2394.0
35°	2566.0	2577.3	2636.1	2737.0	2815.8	2858.3	2827.1	2698.1	2543.5	2489.7	2489.7
37.5°	2768.7	2777.4	2843.5	2941.3	3017.5	3040.1	2979.1	2846.0	2689.4	2613.1	2614.6
40°	2963.3	2986.8	3061.1	3161.4	3236.7	3242.8	3161.9	3015.0	2851.7	2772.8	2782.0
42.5°	3166.5	3189.6	3278.1	3391.8	3458.4	3468.6	3373.9	3204.4	3035.0	2971.0	2981.2
45°	3347.8	3366.2	3468.6	3600.7	3683.6	3710.2	3598.1	3421.5	3233.1	3170.6	3173.2
47.5°	3474.2	3498.3	3610.9	3766.6	3887.4	3928.3	3818.3	3632.9	3428.1	3352.4	3359.0
50°	3588.9	3601.7	3715.9	3885.8	4039.4	4123.9	4029.7	3841.8	3625.3	3544.9	3552.0
52.5°	3652.9	3669.3	3779.9	3957.0	4138.8	4274.9	4217.6	4029.7	3815.7	3737.4	3746.1
55°	3608.4	3620.6	3753.2	3972.9	4200.2	4368.1	4376.8	4213.5	4002.6	3934.0	3958.5
57.5°	3405.6	3421.0	3582.8	3870.5	4207.9	4431.1	4496.6	4384.0	4177.2	4121.4	4135.7
60°	3088.7	3098.4	3271.0	3594.5	4058.4	4457.2	4572.9	4523.2	4348.2	4292.4	4311.8
62.5°	2524.0	2538.3	2744.7	3178.3	3742.5	4379.9	4646.6	4638.4	4507.4	4456.2	4473.6
65°	1725.3	1750.4	1978.8	2527.1	3255.6	4143.4	4713.7	4772.6	4648.2	4583.7	4606.7
67.5°	1041.9	1060.3	1225.7	1668.5	2491.2	3666.2	4644.6	4925.1	4747.5	4643.6	4662.5
68°	931.3	948.2	1086.4	1505.7	2304.4	3531.6	4581.6	4942.6	4758.2	4642.5	4659.4
70°	562.7	573.9	666.6	930.8	1536.4	2801.5	4152.1	4928.2	4826.8	4656.9	4666.6
72.5°	366.6	370.2	385.5	477.7	784.8	1566.6	3116.4	4592.4	4929.8	4740.3	4738.8
75°	304.6	302.6	304.1	314.9	387.0	687.1	1821.1	3627.8	4699.4	4608.7	4576.5
77.5°	257.5	256.0	255.5	256.0	259.1	331.8	790.5	2259.8	3596.1	4076.8	4105.5
80°	208.4	206.3	213.0	209.9	200.7	206.3	331.2	940.0	1695.1	1823.6	1709.0
82.5°	151.5	143.9	172.5	164.3	156.7	145.4	182.8	303.6	404.5	277.5	195.1
85°	116.7	108.5	131.1	125.9	107.5	74.2	108.5	148.5	163.8	93.7	73.7
87.5°	47.6	50.2	94.7	74.7	63.0	35.8	44.5	59.4	79.9	39.9	30.7
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)