

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: P317256

Luminaire Tested: **GAN-SA2D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317256
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-SA2D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11930 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

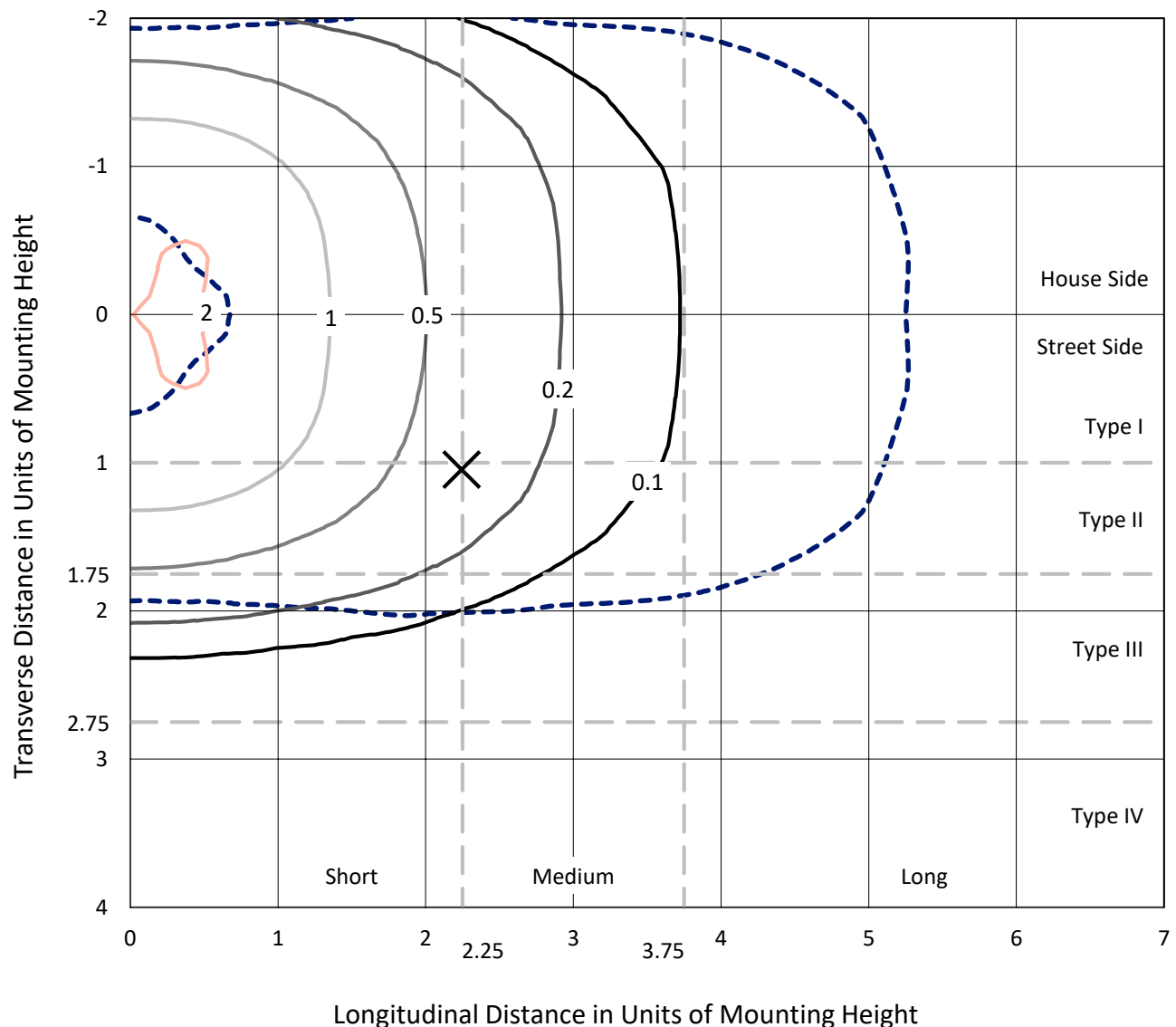


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Iso-Footcandle Lines of Horizontal Illumination

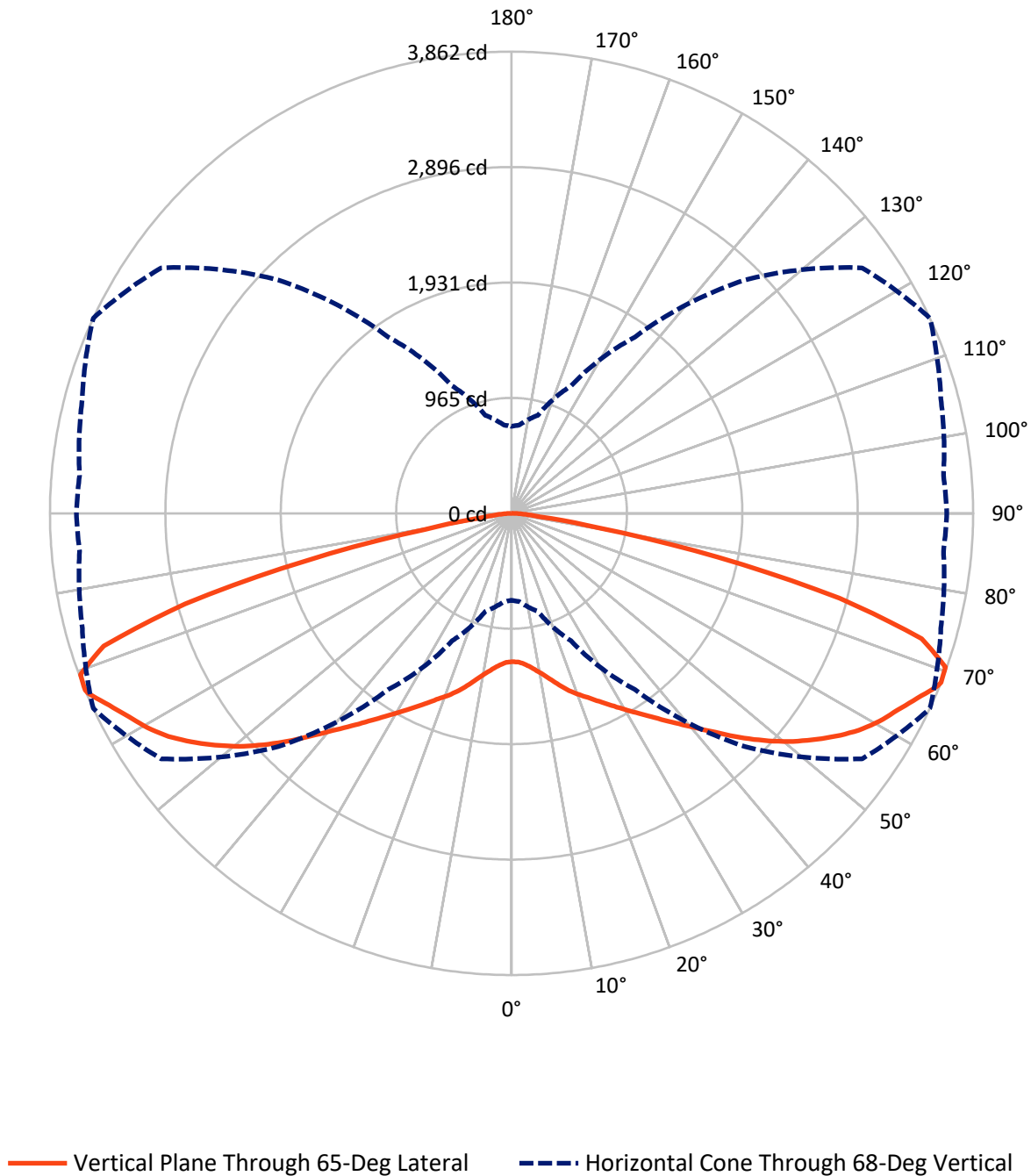
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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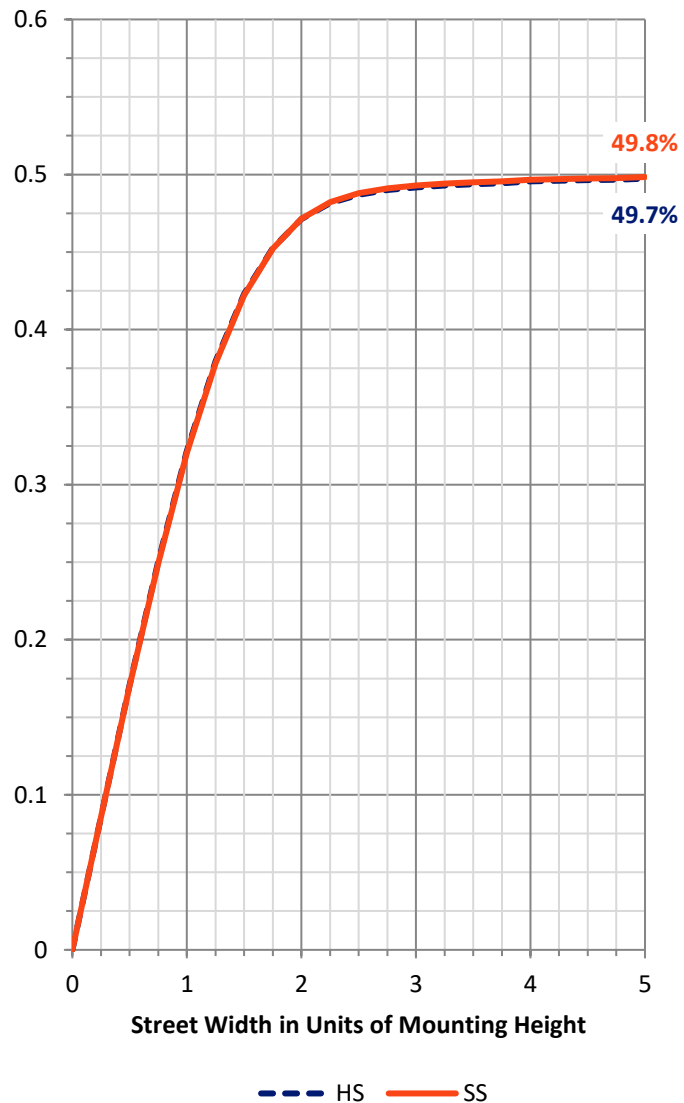
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5965.0	0.0	5965.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5965.0	0.0	5965.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11930.0	0.0	11930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.0
10°-20°	406.6	3.4
20°-30°	792.9	6.6
30°-40°	1332.0	11.2
40°-50°	2098.7	17.6
50°-60°	2806.7	23.5
60°-70°	2728.4	22.9
70°-80°	1491.5	12.5
80°-90°	151.7	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°	11930.0	100.0
0°-180°	11930.0	100.0

Coefficient of Utilization



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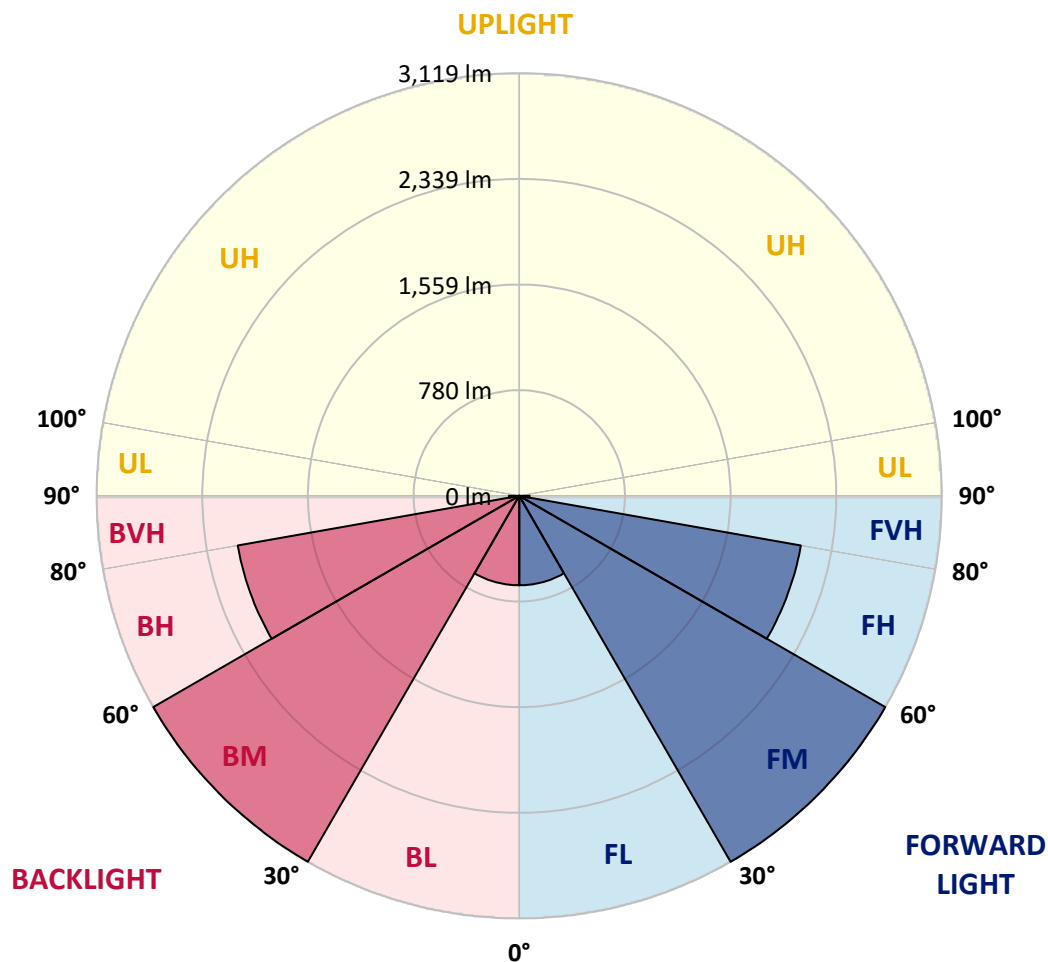
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.5	5.5			
FM	(30°-60°)	3118.7	26.1			
FH	(60°-80°)	2110.0	17.7			G2/5000
FVH	(80°-90°)	75.8	0.6			G1/100
BL	(0°-30°)	660.5	5.5	B2/1000		
BM	(30°-60°)	3118.7	26.1	B3/5000		
BH	(60°-80°)	2110.0	17.7	B3/2500		G3/2500
BVH	(80°-90°)	75.8	0.6			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4	1240.4
2.5°	1231.6	1232.0	1234.0	1236.4	1238.4	1243.6	1244.8	1246.8	1247.6	1249.6	1249.6
5°	1220.8	1221.6	1226.4	1232.8	1240.0	1252.8	1262.0	1272.4	1277.6	1283.2	1282.8
7.5°	1219.6	1221.6	1228.4	1238.8	1250.8	1272.0	1291.2	1312.0	1326.0	1338.8	1338.0
10°	1232.0	1235.2	1244.8	1260.4	1278.4	1304.8	1333.2	1361.2	1385.6	1405.2	1406.0
12.5°	1250.8	1254.8	1270.0	1293.6	1320.8	1354.8	1388.4	1420.0	1453.6	1482.8	1485.2
15°	1275.6	1280.8	1303.6	1338.8	1380.4	1420.8	1456.8	1489.2	1528.0	1568.4	1572.4
17.5°	1312.4	1319.6	1349.6	1397.2	1452.0	1496.4	1534.0	1558.4	1590.9	1632.5	1640.1
20°	1368.4	1377.6	1415.6	1472.4	1539.2	1585.7	1614.5	1619.7	1635.7	1672.9	1681.7
22.5°	1441.2	1449.2	1491.6	1559.2	1634.1	1684.5	1699.7	1678.9	1677.3	1707.3	1715.7
25°	1522.4	1529.6	1578.8	1654.9	1735.3	1790.9	1790.5	1750.1	1722.1	1745.3	1754.1
27.5°	1613.7	1624.9	1672.1	1752.1	1838.1	1892.9	1889.7	1827.3	1774.1	1780.1	1787.7
30°	1718.5	1730.9	1776.9	1858.1	1944.1	1997.7	1993.7	1911.3	1831.3	1815.3	1820.9
32.5°	1848.5	1863.3	1906.9	1986.9	2062.9	2111.3	2099.7	2002.5	1900.1	1865.3	1870.5
35°	2004.9	2013.7	2059.7	2138.5	2200.1	2233.3	2208.9	2108.1	1987.3	1945.3	1945.3
37.5°	2163.3	2170.1	2221.7	2298.1	2357.7	2375.3	2327.7	2223.7	2101.3	2041.7	2042.9
40°	2315.3	2333.7	2391.7	2470.1	2528.9	2533.7	2470.5	2355.7	2228.1	2166.5	2173.7
42.5°	2474.1	2492.1	2561.3	2650.1	2702.1	2710.1	2636.1	2503.7	2371.3	2321.3	2329.3
45°	2615.7	2630.1	2710.1	2813.3	2878.1	2898.9	2811.3	2673.3	2526.1	2477.3	2479.3
47.5°	2714.5	2733.3	2821.3	2942.9	3037.3	3069.3	2983.3	2838.5	2678.5	2619.3	2624.5
50°	2804.1	2814.1	2903.3	3036.1	3156.1	3222.1	3148.5	3001.7	2832.5	2769.7	2775.3
52.5°	2854.1	2866.9	2953.3	3091.7	3233.7	3340.1	3295.3	3148.5	2981.3	2920.1	2926.9
55°	2819.3	2828.9	2932.5	3104.1	3281.7	3412.9	3419.7	3292.1	3127.3	3073.7	3092.9
57.5°	2660.9	2672.9	2799.3	3024.1	3287.7	3462.1	3513.3	3425.3	3263.7	3220.1	3231.3
60°	2413.3	2420.9	2555.7	2808.5	3170.9	3482.5	3572.9	3534.1	3397.3	3353.7	3368.9
62.5°	1972.1	1983.3	2144.5	2483.3	2924.1	3422.1	3630.5	3624.1	3521.7	3481.7	3495.3
65°	1348.0	1367.6	1546.0	1974.5	2543.7	3237.3	3682.9	3728.9	3631.7	3581.3	3599.3
67.5°	814.0	828.4	957.6	1303.6	1946.5	2864.5	3628.9	3848.1	3709.3	3628.1	3642.9
68°	727.6	740.8	848.8	1176.4	1800.5	2759.3	3579.7	3861.7	3717.7	3627.3	3640.5
70°	439.6	448.4	520.8	727.2	1200.4	2188.9	3244.1	3850.5	3771.3	3638.5	3646.1
72.5°	286.4	289.2	301.2	373.2	613.2	1224.0	2434.9	3588.1	3851.7	3703.7	3702.5
75°	238.0	236.4	237.6	246.0	302.4	536.8	1422.8	2834.5	3671.7	3600.9	3575.7
77.5°	201.2	200.0	199.6	200.0	202.4	259.2	617.6	1765.7	2809.7	3185.3	3207.7
80°	162.8	161.2	166.4	164.0	156.8	161.2	258.8	734.4	1324.4	1424.8	1335.2
82.5°	118.4	112.4	134.8	128.4	122.4	113.6	142.8	237.2	316.0	216.8	152.4
85°	91.2	84.8	102.4	98.4	84.0	58.0	84.8	116.0	128.0	73.2	57.6
87.5°	37.2	39.2	74.0	58.4	49.2	28.0	34.8	46.4	62.4	31.2	24.0
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)