

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: P452457

Luminaire Tested: **GALN-SA3B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13927 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 121
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

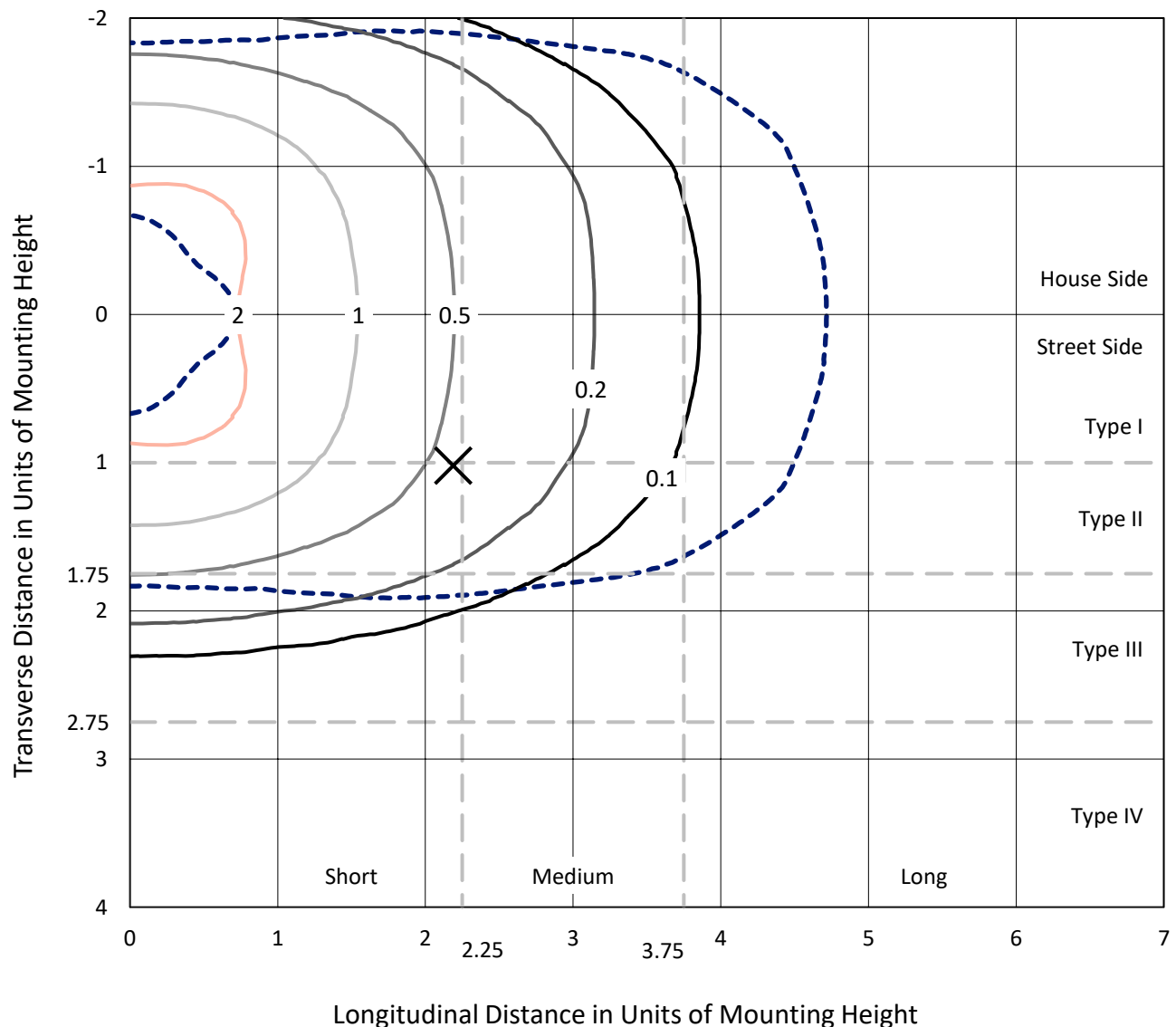


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

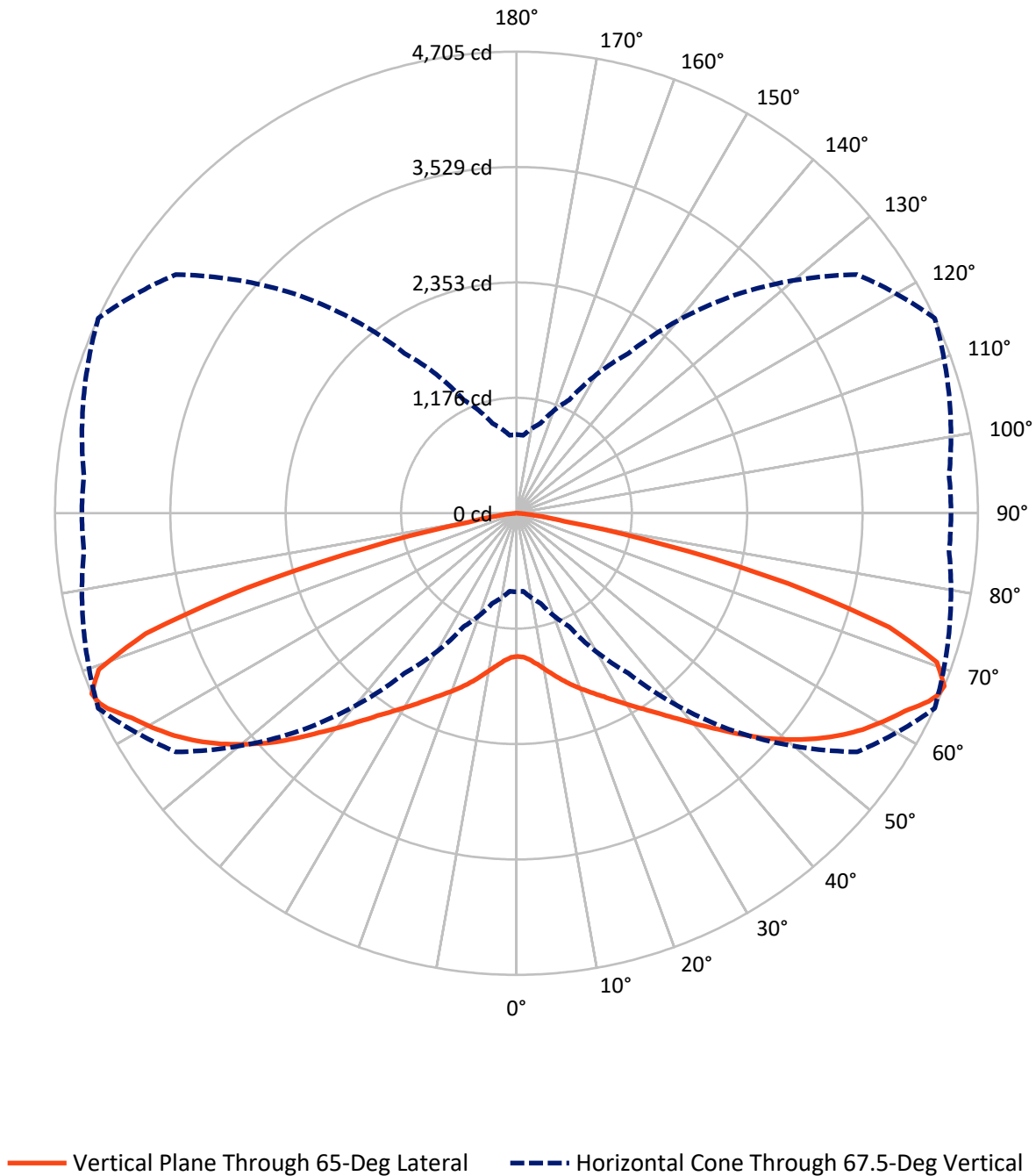


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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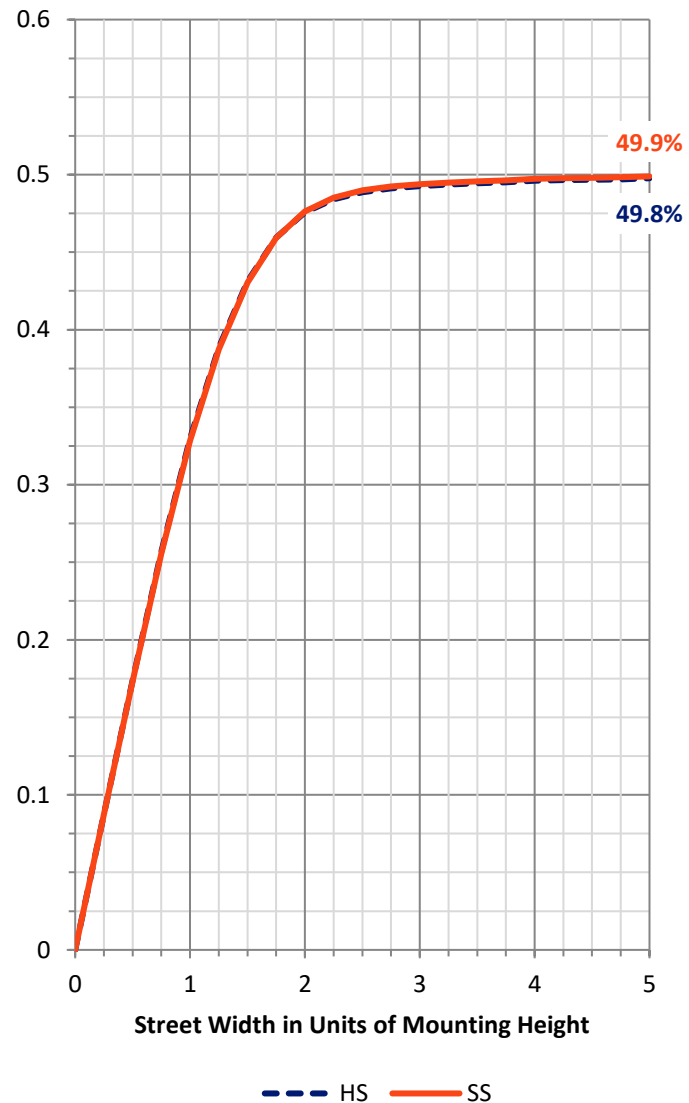
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6963.5	0.0	6963.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6963.5	0.0	6963.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13927.0	0.0	13927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	1.0
10°-20°	481.5	3.5
20°-30°	941.9	6.8
30°-40°	1602.0	11.5
40°-50°	2535.5	18.2
50°-60°	3362.1	24.1
60°-70°	3171.5	22.8
70°-80°	1567.8	11.3
80°-90°	120.8	0.9
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°	13927.0	100.0
0°-180°	13927.0	100.0

Coefficient of Utilization



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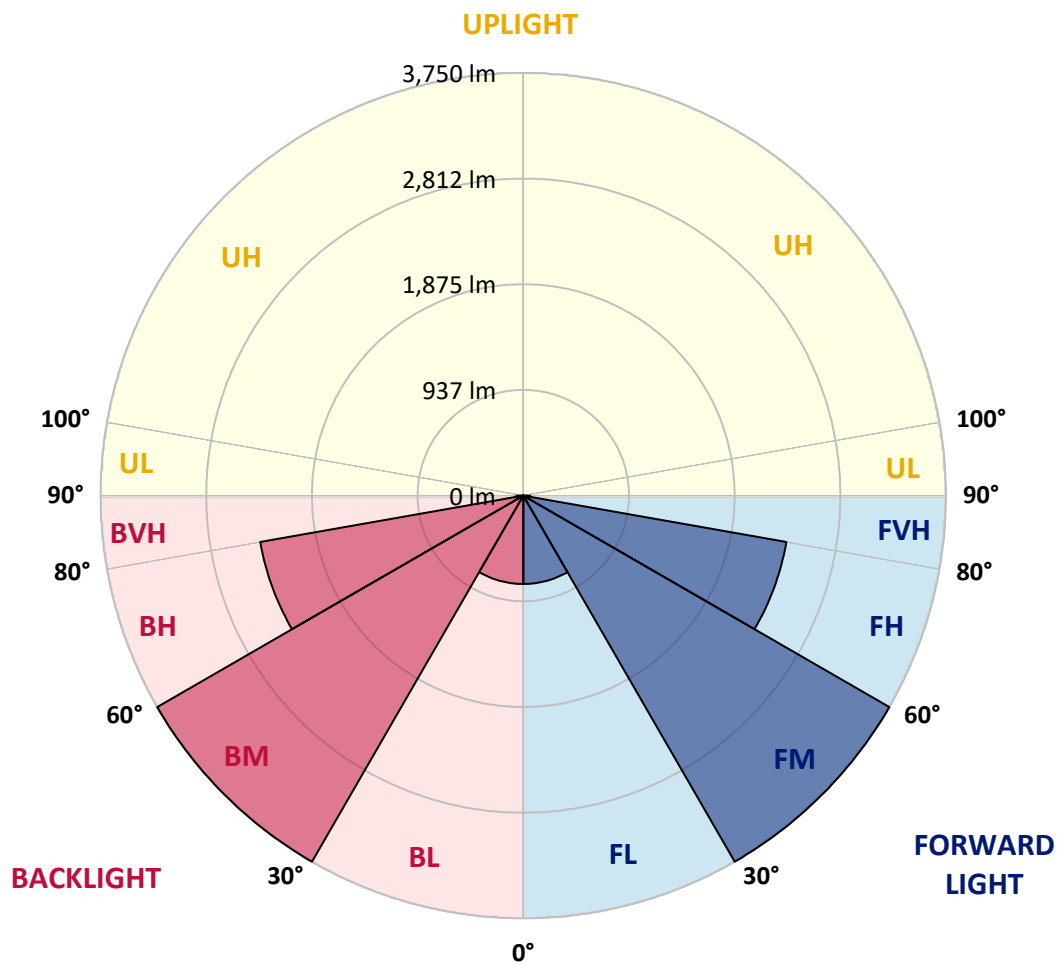
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.6	5.6			
FM	(30°-60°)	3749.8	26.9			
FH	(60°-80°)	2369.6	17.0			G2/5000
FVH	(80°-90°)	60.4	0.4			G1/100
BL	(0°-30°)	783.6	5.6	B2/1000		
BM	(30°-60°)	3749.8	26.9	B3/5000		
BH	(60°-80°)	2369.6	17.0	B3/2500		G3/2500
BVH	(80°-90°)	60.4	0.4			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°	1458.7	1458.7	1458.7	1458.7	1458.7	1458.7	1458.7	1458.7	1458.7	1458.7	1458.7
2.5°	1451.3	1452.8	1454.3	1456.5	1459.5	1464.0	1466.9	1469.2	1475.1	1475.9	1475.1
5°	1446.0	1447.5	1451.3	1458.0	1467.7	1481.1	1491.6	1504.2	1513.9	1520.7	1519.2
7.5°	1445.3	1448.3	1454.3	1468.4	1487.1	1510.2	1534.1	1555.7	1574.4	1589.3	1587.1
10°	1457.2	1461.0	1470.7	1491.6	1520.7	1554.2	1587.8	1619.9	1646.8	1666.2	1672.9
12.5°	1477.4	1480.4	1498.3	1529.6	1571.4	1613.2	1651.2	1690.8	1728.1	1760.9	1760.9
15°	1512.5	1517.7	1540.1	1585.6	1637.1	1685.6	1724.4	1766.1	1806.4	1843.7	1854.9
17.5°	1561.0	1568.4	1602.0	1660.2	1725.9	1770.6	1807.2	1841.5	1876.6	1912.4	1917.6
20°	1627.4	1634.8	1679.6	1749.7	1827.3	1881.1	1905.7	1913.9	1931.0	1965.4	1969.8
22.5°	1717.6	1725.1	1775.1	1854.2	1940.7	1998.9	2009.4	1990.0	1985.5	2012.4	2015.4
25°	1819.9	1826.6	1884.0	1969.1	2058.6	2122.1	2119.1	2071.3	2044.5	2060.9	2065.4
27.5°	1934.8	1944.5	2002.7	2090.7	2187.7	2243.7	2234.7	2165.3	2107.9	2104.9	2106.4
30°	2081.8	2092.2	2147.4	2231.7	2327.3	2378.7	2360.1	2266.8	2178.0	2148.2	2148.2
32.5°	2237.0	2263.1	2319.0	2407.1	2481.7	2519.0	2490.7	2378.7	2260.8	2219.1	2216.8
35°	2439.2	2453.4	2508.6	2594.4	2650.3	2679.4	2625.0	2504.8	2369.0	2319.8	2313.1
37.5°	2636.9	2648.8	2713.0	2795.1	2863.0	2861.5	2787.6	2654.8	2503.3	2448.1	2443.7
40°	2839.1	2851.8	2924.9	3000.3	3068.2	3062.2	2972.7	2824.2	2663.0	2601.1	2613.0
42.5°	3014.5	3028.6	3111.5	3218.9	3280.1	3278.6	3174.9	3007.7	2839.9	2784.6	2795.1
45°	3174.1	3186.8	3283.1	3406.2	3495.7	3506.9	3393.5	3216.7	3044.3	2973.4	2976.4
47.5°	3286.8	3310.7	3411.4	3552.4	3674.1	3713.6	3602.4	3429.3	3230.8	3157.0	3161.5
50°	3372.6	3387.5	3497.2	3657.6	3811.4	3893.4	3803.9	3626.3	3417.4	3339.0	3349.5
52.5°	3383.1	3401.0	3520.4	3705.4	3902.4	4027.0	3983.0	3818.8	3607.7	3527.1	3549.5
55°	3298.0	3308.4	3451.0	3675.6	3938.2	4126.2	4137.4	3997.9	3789.0	3727.8	3742.7
57.5°	3055.5	3082.4	3262.9	3536.0	3889.0	4179.2	4253.1	4160.6	3972.5	3912.1	3936.0
60°	2657.8	2684.7	2866.0	3212.2	3703.2	4154.6	4348.6	4304.6	4138.9	4090.4	4103.1
62.5°	2082.5	2080.3	2304.9	2729.4	3333.8	4033.7	4419.5	4443.3	4303.1	4241.9	4261.3
65°	1349.8	1356.5	1573.6	2031.0	2776.4	3726.3	4435.1	4620.2	4464.2	4371.7	4385.9
66°	1085.7	1105.8	1290.1	1711.7	2492.2	3524.8	4388.1	4672.4	4513.5	4401.6	4408.3
67.5°	801.4	797.6	949.1	1274.4	1990.0	3142.1	4241.1	4705.2	4569.4	4428.4	4431.4
70°	457.4	456.6	510.4	699.9	1170.0	2212.3	3574.8	4547.8	4682.9	4525.4	4517.2
72.5°	334.3	332.0	339.5	386.5	570.8	1117.0	2466.0	3974.8	4624.7	4509.8	4486.6
75°	280.6	279.1	277.6	283.5	320.1	505.9	1308.8	2859.3	4012.8	4232.9	4209.1
77.5°	229.1	229.1	229.8	228.3	229.8	266.4	542.5	1532.6	2443.7	2727.9	2794.3
80°	179.1	178.3	191.0	185.8	173.9	170.9	240.3	493.2	811.1	806.6	665.6
82.5°	132.1	123.1	145.5	141.8	128.3	108.9	140.3	210.4	270.9	176.1	130.6
85°	83.6	82.8	103.0	94.0	78.3	51.5	67.2	90.3	111.9	67.9	55.2
87.5°	14.9	14.2	32.8	23.9	23.9	14.9	18.7	24.6	36.6	25.4	18.7
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)