

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: P451993

Luminaire Tested: **GALN-SA2D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451993
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-SA2D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12754 lumens
Efficiency: N/A
Efficacy: 102.0 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): 125
Input Voltage (V): NR
Input Current (A_{in}): 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

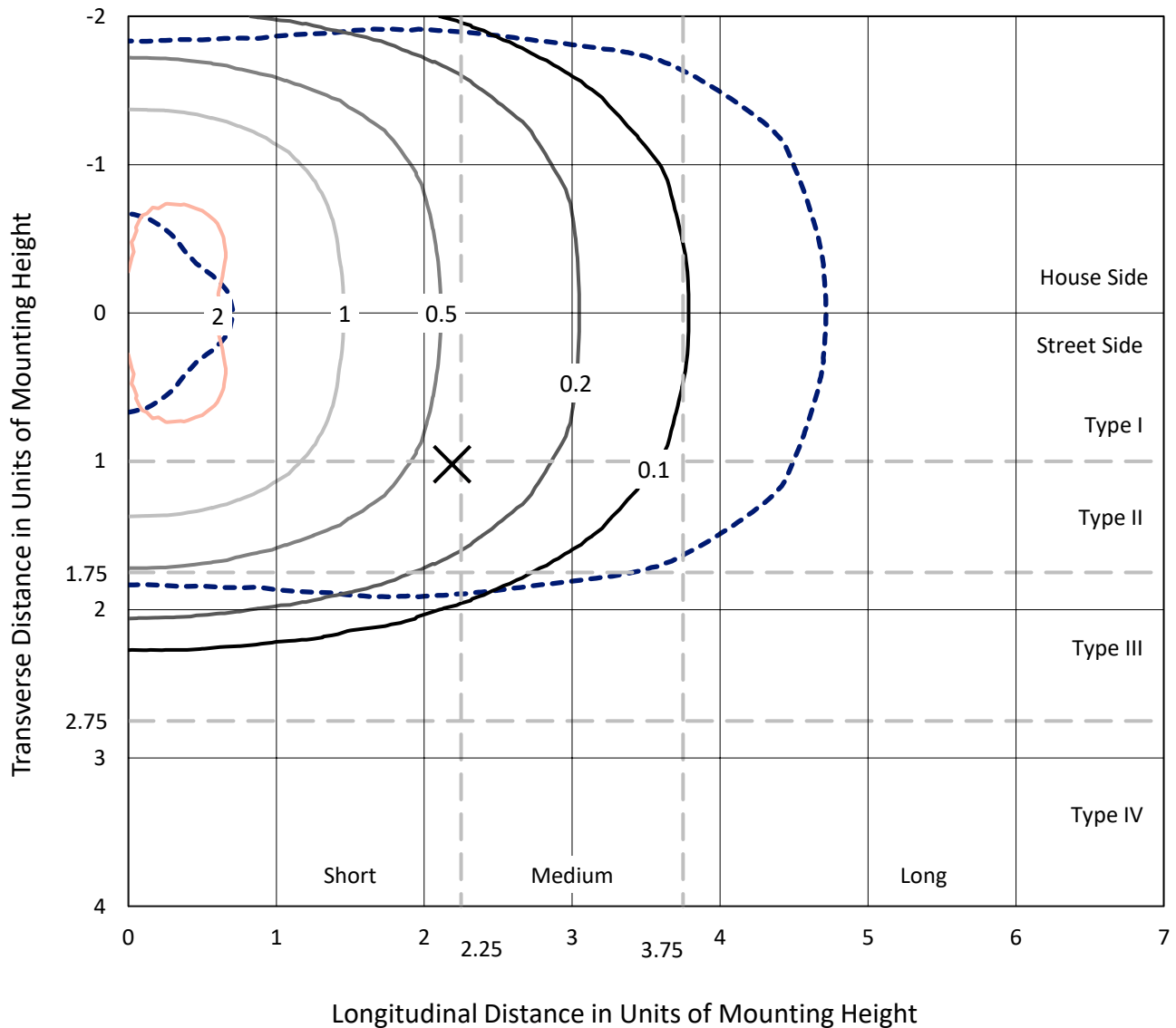


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

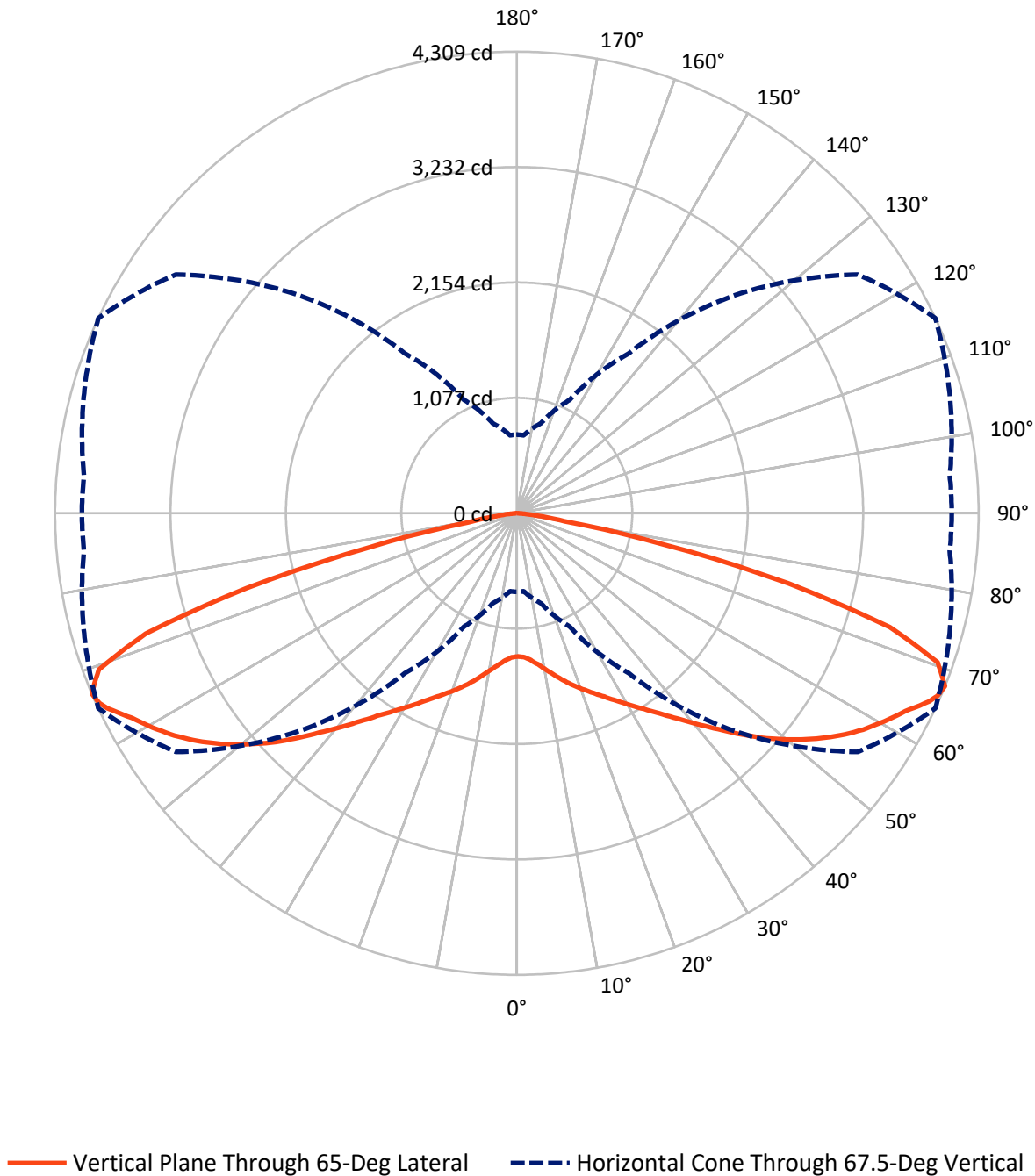


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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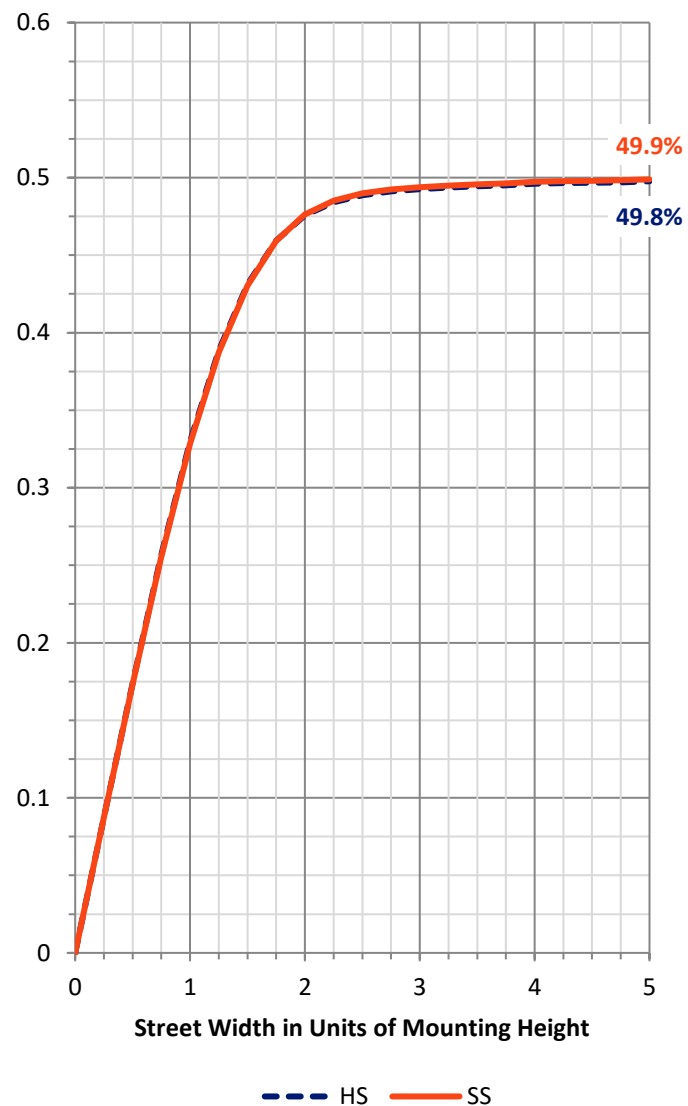
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6377.0	0.0	6377.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6377.0	0.0	6377.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12754.0	0.0	12754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.0
10°-20°	441.0	3.5
20°-30°	862.6	6.8
30°-40°	1467.1	11.5
40°-50°	2322.0	18.2
50°-60°	3078.9	24.1
60°-70°	2904.3	22.8
70°-80°	1435.8	11.3
80°-90°	110.6	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°	12754.0	100.0
0°-180°	12754.0	100.0

Coefficient of Utilization



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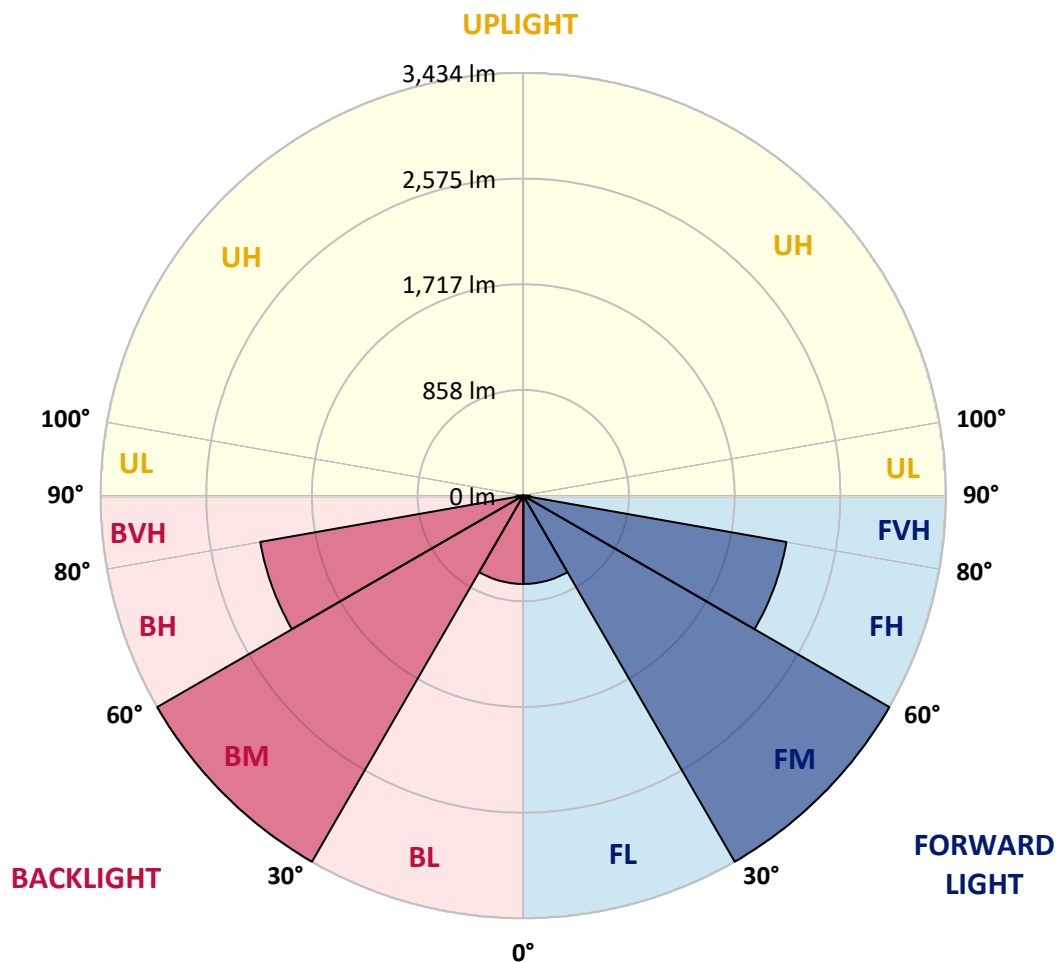
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.6	5.6			
FM	(30°-60°)	3434.0	26.9			
FH	(60°-80°)	2170.0	17.0			G2/5000
FVH	(80°-90°)	55.3	0.4			G1/100
BL	(0°-30°)	717.6	5.6	B2/1000		
BM	(30°-60°)	3434.0	26.9	B3/5000		
BH	(60°-80°)	2170.0	17.0	B3/2500		G3/2500
BVH	(80°-90°)	55.3	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°	1335.9	1335.9	1335.9	1335.9	1335.9	1335.9	1335.9	1335.9	1335.9	1335.9	1335.9
2.5°	1329.0	1330.4	1331.8	1333.8	1336.6	1340.7	1343.4	1345.4	1350.9	1351.6	1350.9
5°	1324.3	1325.6	1329.0	1335.2	1344.1	1356.4	1365.9	1377.6	1386.4	1392.6	1391.2
7.5°	1323.6	1326.3	1331.8	1344.8	1361.8	1383.0	1404.9	1424.7	1441.8	1455.4	1453.4
10°	1334.5	1337.9	1346.8	1365.9	1392.6	1423.3	1454.1	1483.5	1508.1	1525.8	1532.0
12.5°	1353.0	1355.7	1372.1	1400.8	1439.0	1477.3	1512.2	1548.4	1582.5	1612.6	1612.6
15°	1385.1	1389.9	1410.3	1452.0	1499.2	1543.6	1579.1	1617.4	1654.3	1688.5	1698.7
17.5°	1429.5	1436.3	1467.1	1520.4	1580.5	1621.5	1655.0	1686.4	1718.5	1751.3	1756.1
20°	1490.3	1497.1	1538.1	1602.4	1673.4	1722.6	1745.2	1752.7	1768.4	1799.8	1803.9
22.5°	1573.0	1579.8	1625.6	1698.0	1777.3	1830.6	1840.2	1822.4	1818.3	1842.9	1845.6
25°	1666.6	1672.7	1725.4	1803.3	1885.2	1943.3	1940.6	1896.9	1872.3	1887.3	1891.4
27.5°	1771.8	1780.7	1834.0	1914.6	2003.5	2054.7	2046.5	1983.0	1930.3	1927.6	1929.0
30°	1906.4	1916.0	1966.6	2043.8	2131.2	2178.4	2161.3	2075.9	1994.6	1967.2	1967.2
32.5°	2048.6	2072.5	2123.7	2204.4	2272.7	2306.9	2280.9	2178.4	2070.4	2032.2	2030.1
35°	2233.7	2246.7	2297.3	2375.9	2427.1	2453.8	2403.9	2293.9	2169.5	2124.4	2118.3
37.5°	2414.8	2425.7	2484.5	2559.7	2621.9	2620.5	2552.8	2431.2	2292.5	2241.9	2237.8
40°	2600.0	2611.6	2678.6	2747.6	2809.8	2804.3	2722.3	2586.3	2438.7	2382.0	2392.9
42.5°	2760.6	2773.6	2849.4	2947.8	3003.8	3002.5	2907.5	2754.4	2600.7	2550.1	2559.7
45°	2906.8	2918.4	3006.6	3119.3	3201.3	3211.6	3107.7	2945.7	2787.9	2723.0	2725.7
47.5°	3010.0	3031.8	3124.1	3253.2	3364.6	3400.8	3299.0	3140.5	2958.7	2891.1	2895.2
50°	3088.6	3102.2	3202.7	3349.6	3490.3	3565.5	3483.5	3320.9	3129.6	3057.8	3067.4
52.5°	3098.1	3114.5	3223.9	3393.3	3573.7	3687.8	3647.5	3497.2	3303.8	3230.0	3250.5
55°	3020.2	3029.8	3160.3	3366.0	3606.5	3778.7	3788.9	3661.2	3469.8	3413.8	3427.5
57.5°	2798.2	2822.7	2988.1	3238.2	3561.4	3827.2	3894.9	3810.1	3637.9	3582.6	3604.5
60°	2433.9	2458.5	2624.6	2941.6	3391.3	3804.7	3982.3	3942.0	3790.3	3745.9	3757.5
62.5°	1907.1	1905.1	2110.7	2499.5	3053.0	3694.0	4047.2	4069.1	3940.6	3884.6	3902.4
65°	1236.1	1242.3	1441.1	1860.0	2542.6	3412.4	4061.6	4231.0	4088.2	4003.5	4016.5
66°	994.2	1012.7	1181.4	1567.5	2282.3	3228.0	4018.5	4278.9	4133.3	4030.8	4037.0
67.5°	733.9	730.5	869.2	1167.1	1822.4	2877.4	3883.9	4308.9	4184.6	4055.4	4058.2
70°	418.9	418.2	467.4	640.9	1071.4	2026.0	3273.7	4164.8	4288.4	4144.3	4136.8
72.5°	306.1	304.1	310.9	354.0	522.7	1022.9	2258.3	3640.0	4235.1	4129.9	4108.7
75°	256.9	255.6	254.2	259.7	293.1	463.3	1198.5	2618.4	3674.8	3876.4	3854.5
77.5°	209.8	209.8	210.5	209.1	210.5	243.9	496.8	1403.5	2237.8	2498.2	2559.0
80°	164.0	163.3	174.9	170.1	159.2	156.5	220.0	451.7	742.8	738.7	609.5
82.5°	120.9	112.7	133.2	129.8	117.5	99.8	128.5	192.7	248.0	161.3	119.6
85°	76.5	75.8	94.3	86.1	71.7	47.1	61.5	82.7	102.5	62.2	50.6
87.5°	13.7	13.0	30.1	21.9	21.9	13.7	17.1	22.5	33.5	23.2	17.1
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)