

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: P452221

Luminaire Tested: **GALN-SA3A-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11321 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 93
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

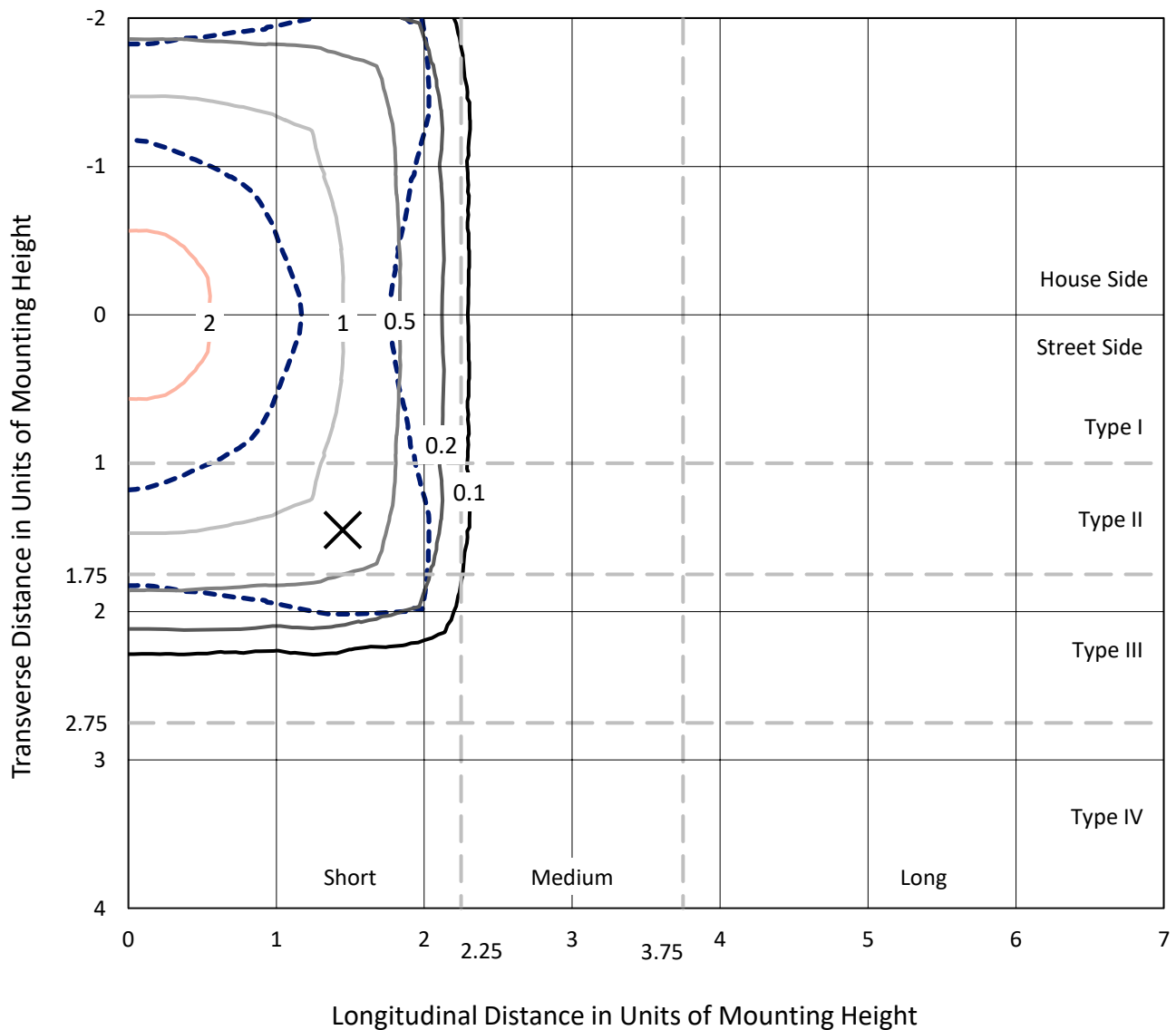


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

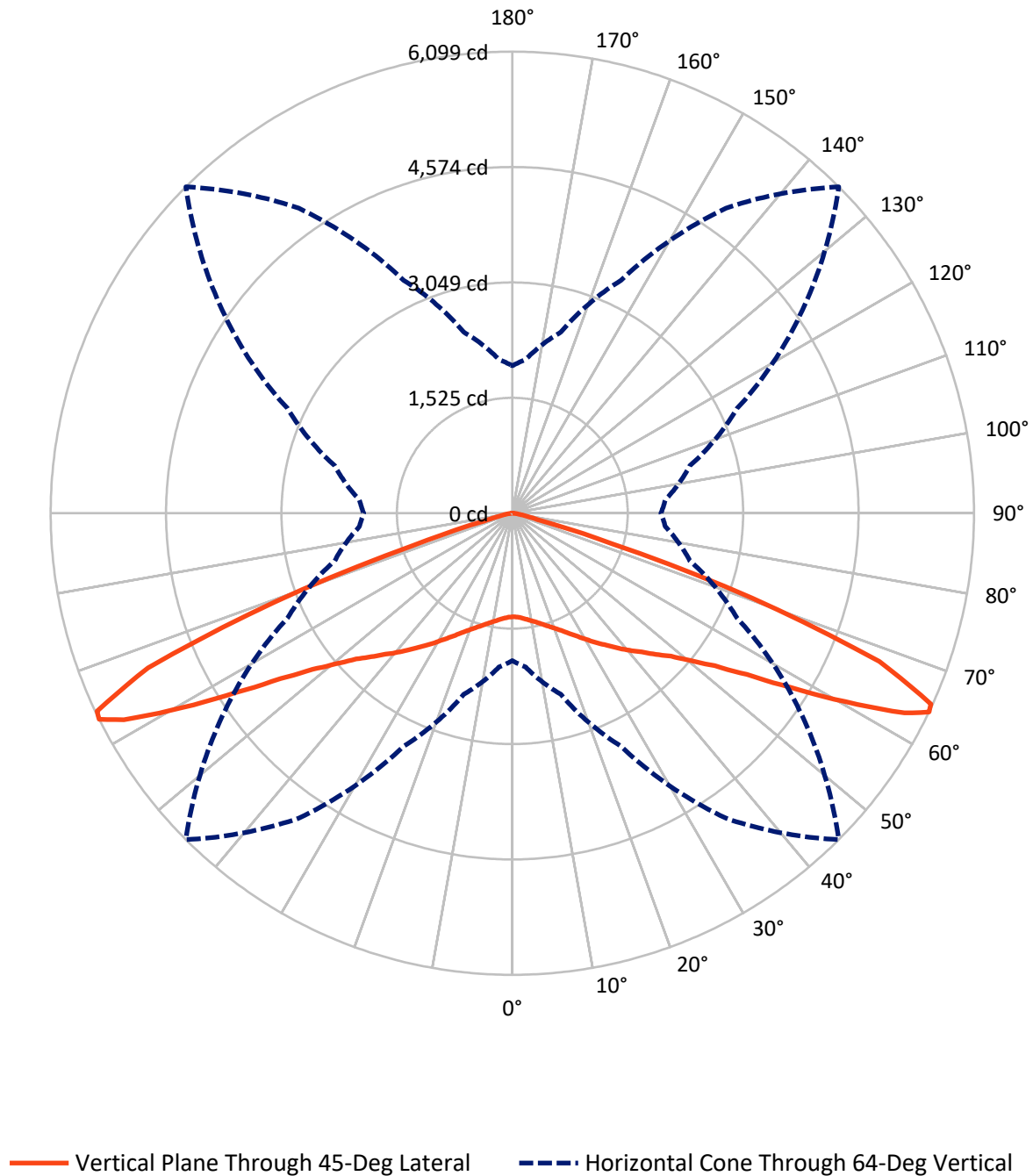


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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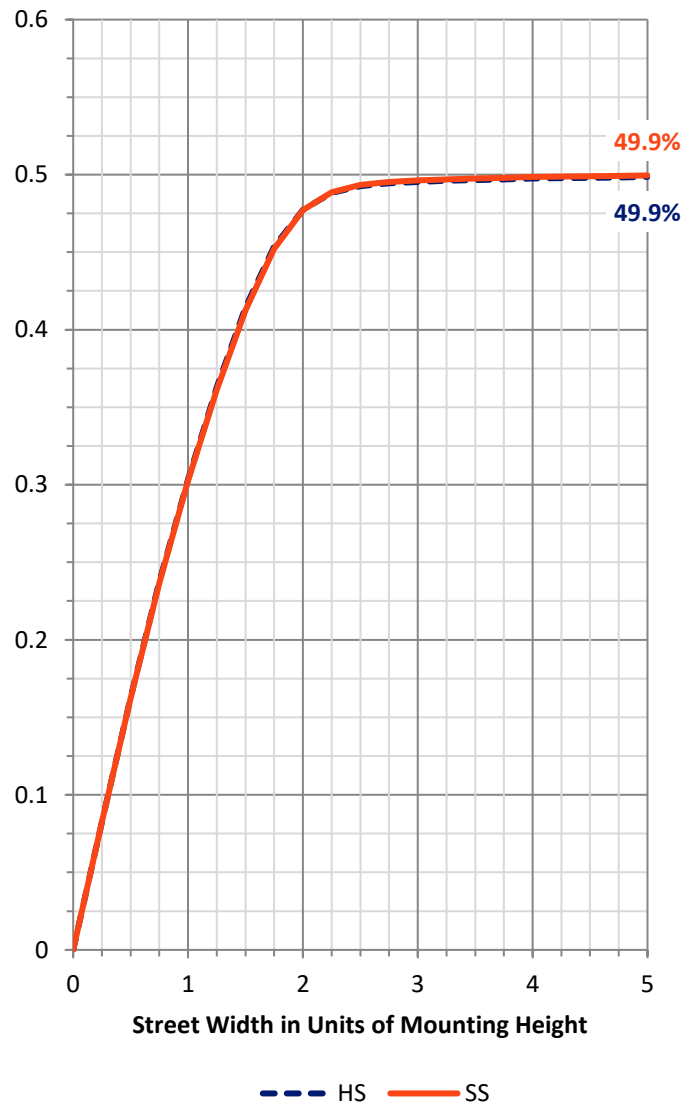
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5660.5	0.0	5660.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5660.5	0.0	5660.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11321.0	0.0	11321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	1.2
10°-20°	433.6	3.8
20°-30°	819.4	7.2
30°-40°	1357.1	12.0
40°-50°	2118.6	18.7
50°-60°	3275.3	28.9
60°-70°	2824.2	24.9
70°-80°	320.1	2.8
80°-90°	38.4	0.3
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°	11321.0	100.0
0°-180°	11321.0	100.0

Coefficient of Utilization



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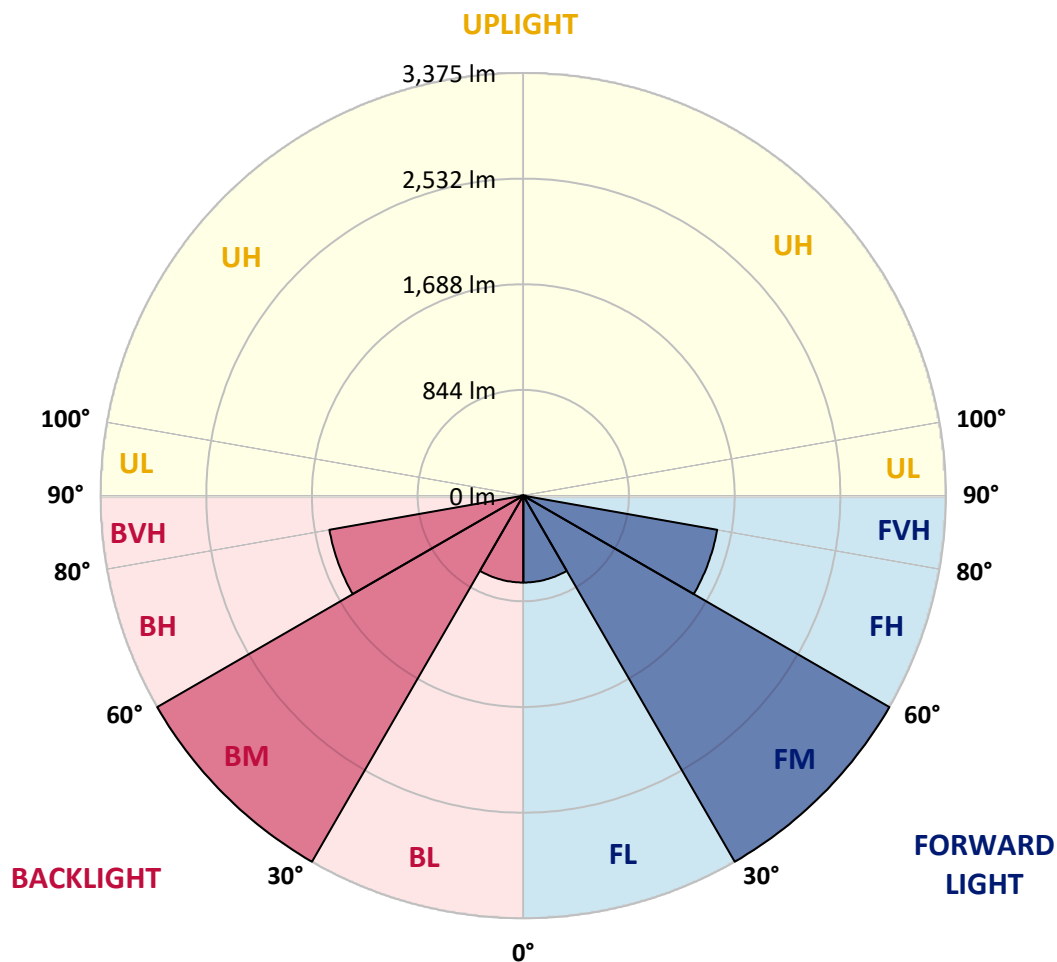
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.7	6.1			
FM	(30°-60°)	3375.5	29.8			
FH	(60°-80°)	1572.1	13.9			G1/1800
FVH	(80°-90°)	19.2	0.2			G1/100
BL	(0°-30°)	693.7	6.1	B2/1000		
BM	(30°-60°)	3375.5	29.8	B3/5000		
BH	(60°-80°)	1572.1	13.9	B3/2500		G1/1800
BVH	(80°-90°)	19.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3
2.5°	1373.7	1376.7	1374.3	1373.7	1373.1	1373.1	1373.1	1373.7	1376.1	1377.9	1376.7
5°	1391.1	1393.5	1392.3	1391.7	1391.1	1391.1	1390.5	1389.9	1391.7	1391.7	1391.1
7.5°	1412.7	1415.7	1414.5	1415.7	1416.3	1416.9	1413.9	1411.5	1410.9	1412.7	1411.5
10°	1442.1	1444.5	1445.1	1445.7	1446.9	1446.3	1442.7	1438.5	1437.9	1437.3	1436.7
12.5°	1475.1	1476.9	1477.5	1479.9	1481.7	1482.3	1478.1	1474.5	1468.5	1469.7	1467.3
15°	1512.2	1515.8	1515.2	1518.8	1523.6	1524.8	1520.6	1514.6	1509.2	1506.2	1504.4
17.5°	1557.8	1560.2	1559.0	1562.6	1568.6	1571.6	1568.0	1560.2	1554.8	1548.2	1544.6
20°	1611.8	1616.0	1617.2	1617.2	1622.6	1625.6	1620.2	1617.8	1609.4	1604.6	1601.6
22.5°	1672.9	1674.7	1678.3	1681.9	1687.3	1686.1	1684.3	1680.7	1672.9	1668.7	1663.9
25°	1741.9	1743.7	1752.7	1760.5	1762.3	1761.1	1758.7	1756.9	1749.7	1740.1	1736.5
27.5°	1822.2	1825.8	1837.8	1845.0	1845.0	1845.6	1840.8	1846.8	1831.2	1819.8	1818.6
30°	1923.0	1925.4	1935.6	1942.8	1939.2	1936.2	1935.0	1941.0	1924.2	1903.8	1899.0
32.5°	2022.5	2030.9	2039.9	2055.5	2042.9	2037.5	2036.3	2040.5	2021.3	1998.5	1991.9
35°	2129.3	2135.2	2152.0	2165.2	2153.8	2141.2	2146.6	2159.8	2137.0	2106.5	2105.3
37.5°	2247.4	2252.8	2274.4	2288.2	2279.8	2258.2	2267.2	2282.8	2260.0	2222.2	2214.4
40°	2370.3	2381.7	2408.7	2423.1	2409.3	2380.5	2397.3	2414.1	2393.7	2349.9	2332.5
42.5°	2508.2	2526.2	2565.2	2572.4	2546.0	2507.0	2536.4	2563.4	2549.0	2498.6	2492.0
45°	2669.5	2680.3	2728.3	2743.9	2707.3	2658.7	2695.3	2744.5	2733.7	2675.5	2662.9
47.5°	2850.0	2860.2	2910.0	2933.3	2887.2	2821.8	2887.8	2951.9	2945.3	2883.0	2877.0
50°	3063.5	3065.9	3134.8	3161.2	3115.0	3058.7	3117.4	3197.2	3170.8	3091.0	3089.8
52.5°	3297.3	3300.3	3387.3	3438.2	3412.4	3348.9	3418.4	3467.0	3399.8	3295.5	3287.7
55°	3500.0	3515.0	3633.7	3769.2	3804.6	3758.4	3779.4	3756.6	3591.1	3444.8	3422.0
57.5°	3582.7	3612.1	3792.6	4045.6	4275.9	4344.2	4182.4	3965.3	3667.3	3460.4	3438.2
60°	3380.7	3412.4	3692.5	4172.8	4760.4	5057.2	4602.1	4000.7	3494.0	3203.2	3168.4
62.5°	2707.3	2716.3	3128.2	3873.5	5042.8	5811.5	4779.0	3699.1	2989.7	2594.6	2580.8
64°	1948.2	2040.5	2477.0	3396.2	4919.3	6098.7	4677.0	3276.3	2428.5	2028.5	1963.8
65°	1457.1	1482.3	1996.7	2900.4	4701.6	6077.2	4479.2	2872.2	2011.1	1552.4	1480.5
67.5°	550.5	553.4	736.9	1445.7	3347.1	5228.7	3418.4	1562.6	847.3	612.8	590.6
70°	228.5	232.7	270.4	486.3	1438.5	3357.3	1648.4	563.6	310.0	251.2	247.6
72.5°	167.3	169.7	181.1	215.9	442.5	1378.5	542.1	239.2	181.7	162.5	160.7
75°	131.3	132.5	140.9	158.9	206.3	382.0	225.5	164.3	138.5	124.7	123.5
77.5°	100.1	103.1	109.1	121.1	138.5	181.1	149.3	122.9	106.7	95.3	93.5
80°	69.0	72.6	83.9	88.7	92.9	117.5	101.9	92.9	83.3	69.6	65.4
82.5°	42.6	45.0	56.4	60.6	58.8	66.0	65.4	66.6	59.4	43.2	40.2
85°	22.2	23.4	30.6	31.8	29.4	27.0	33.6	39.0	36.6	24.6	24.0
87.5°	4.8	5.4	6.6	6.0	6.6	6.6	8.4	12.6	13.2	8.4	7.8
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)