

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: P452686

Luminaire Tested: **GALN-SA3C-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17455 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 160
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

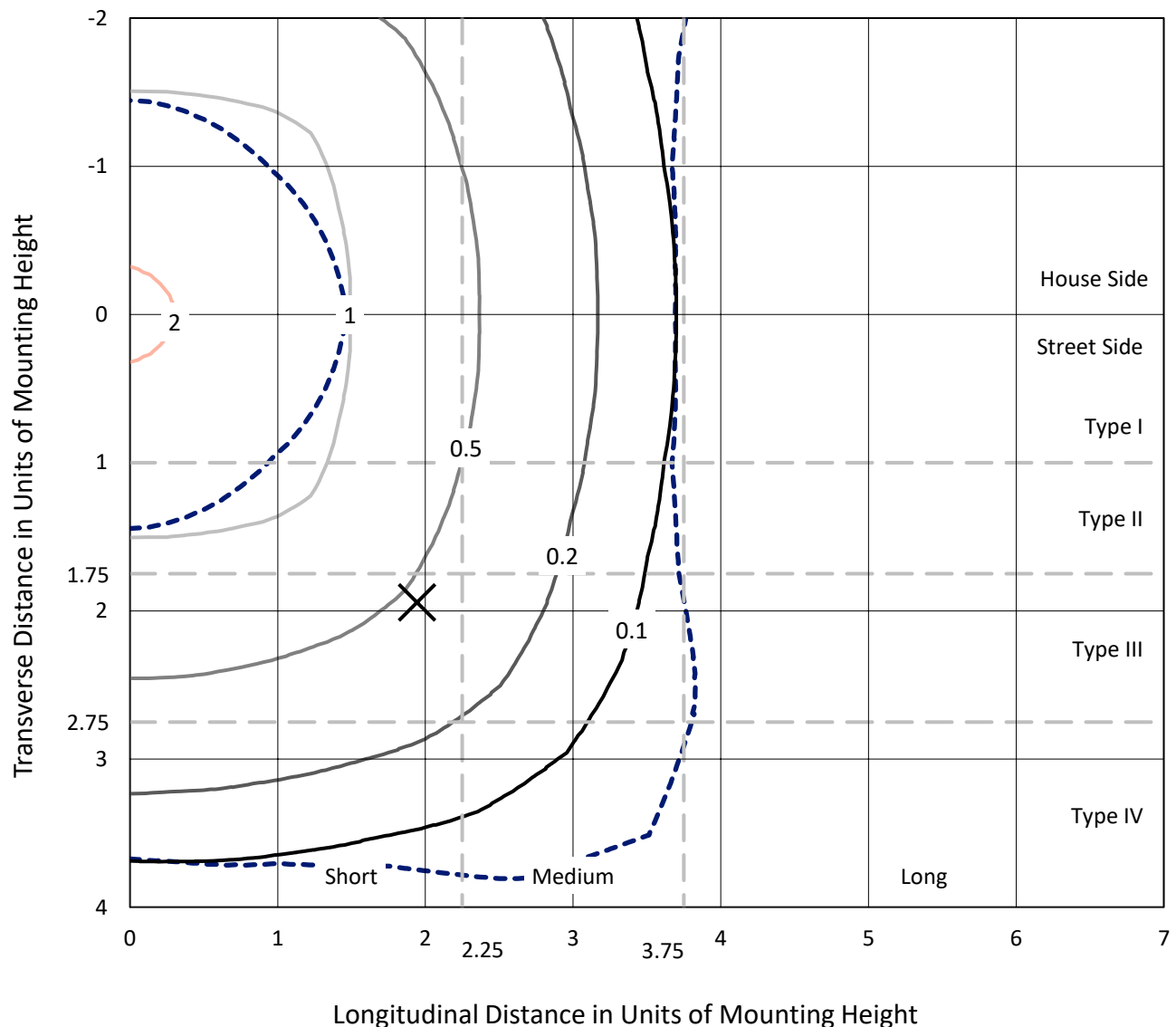


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

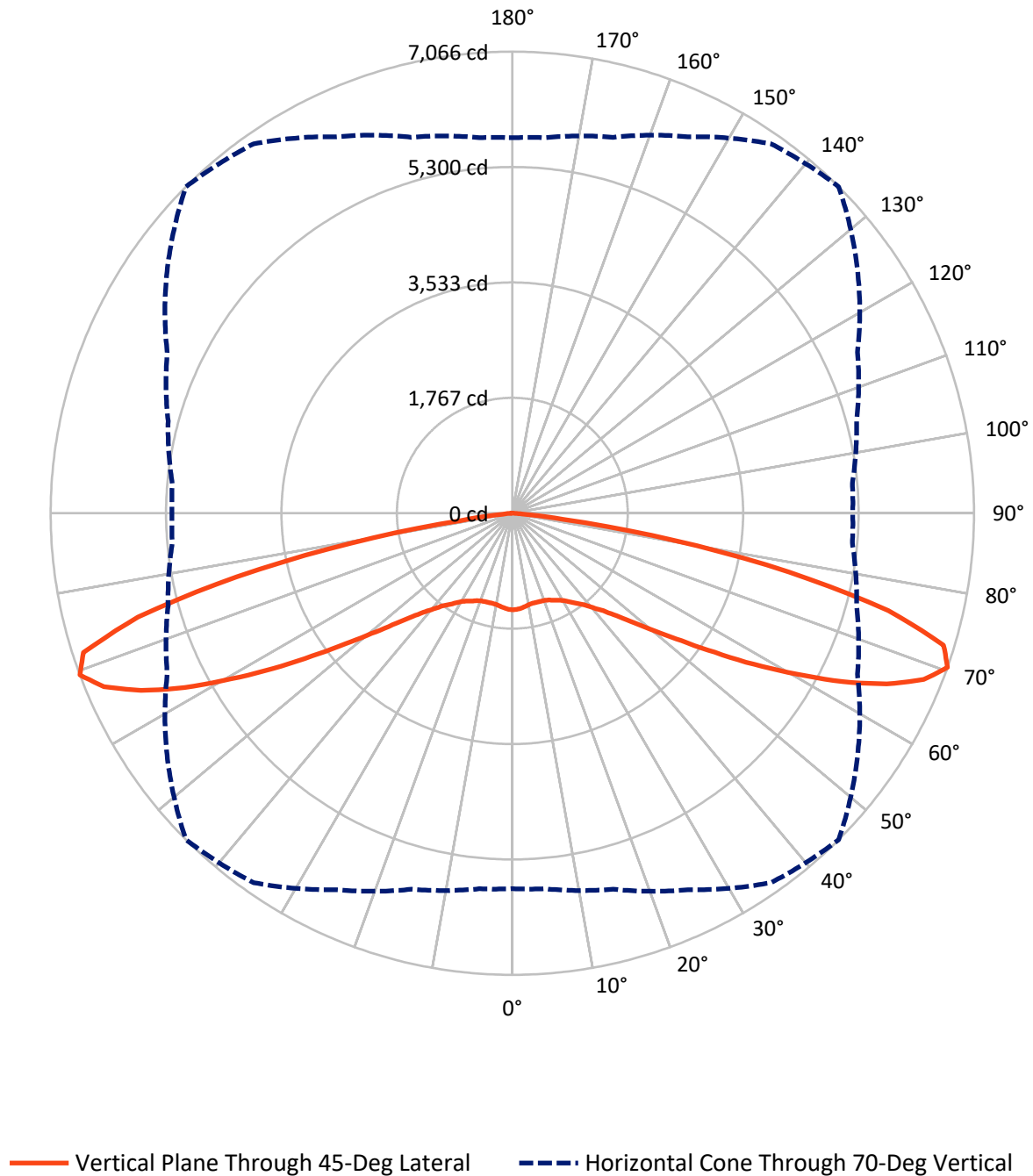


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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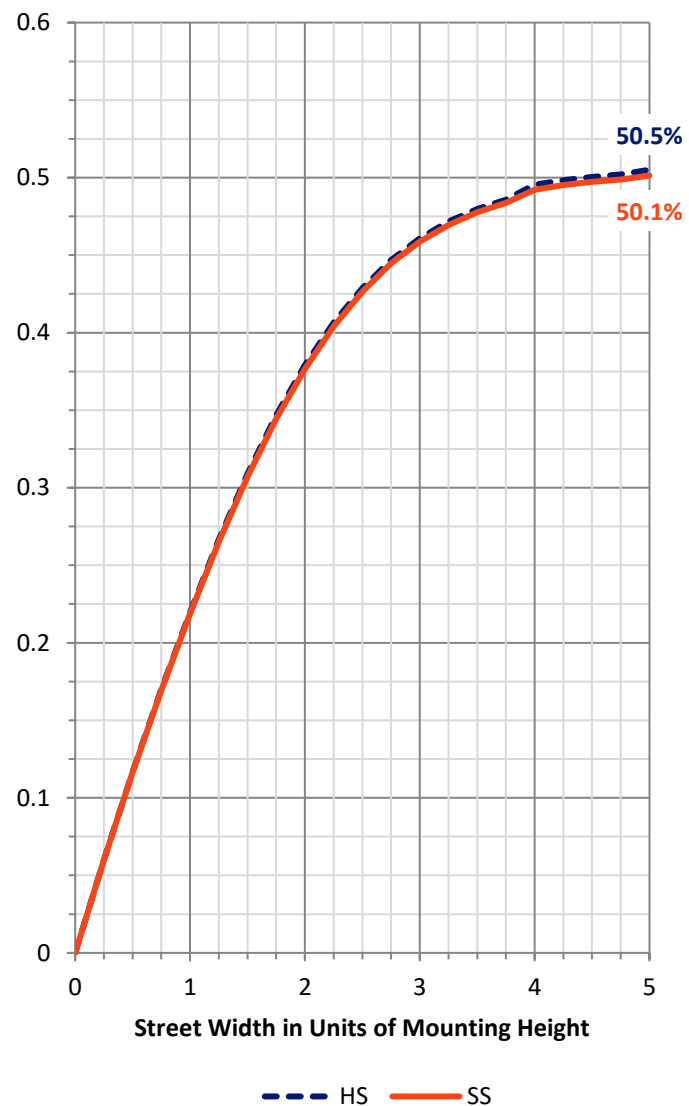
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8727.5	0.0	8727.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8727.5	0.0	8727.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17455.0	0.0	17455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	0.8
10°-20°	404.6	2.3
20°-30°	689.3	3.9
30°-40°	1068.4	6.1
40°-50°	1798.3	10.3
50°-60°	3272.0	18.7
60°-70°	5539.4	31.7
70°-80°	4287.7	24.6
80°-90°	256.9	1.5
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°	17455.0	100.0
0°-180°	17455.0	100.0

Coefficient of Utilization



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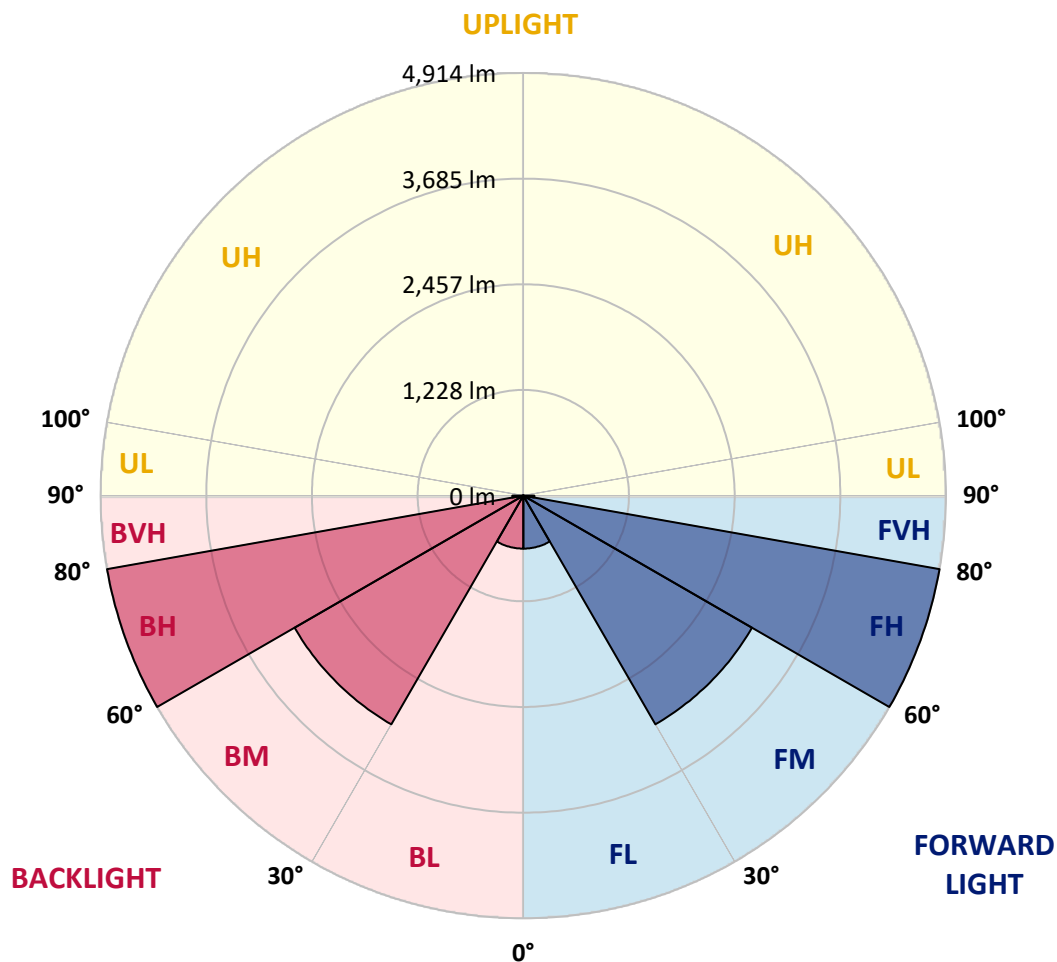
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	616.1	3.5			
FM	(30°-60°)	3069.4	17.6			
FH	(60°-80°)	4913.6	28.1			G2/5000
FVH	(80°-90°)	128.5	0.7			G2/225
BL	(0°-30°)	616.1	3.5	B2/1000		
BM	(30°-60°)	3069.4	17.6	B3/5000		
BH	(60°-80°)	4913.6	28.1	B4/5000		G2/5000
BVH	(80°-90°)	128.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1477.8	1477.8	1477.8	1477.8	1477.8	1477.8	1477.8	1477.8	1477.8	1477.8	1477.8
2.5°	1474.1	1475.0	1475.0	1473.2	1472.2	1472.2	1471.3	1471.3	1474.1	1475.0	1475.9
5°	1461.2	1461.2	1461.2	1460.3	1458.4	1458.4	1456.6	1456.6	1457.5	1460.3	1458.4
7.5°	1443.7	1445.5	1445.5	1441.8	1439.1	1439.1	1438.1	1439.1	1440.0	1442.7	1441.8
10°	1438.1	1439.1	1434.5	1428.0	1423.4	1420.6	1421.5	1423.4	1428.0	1429.8	1430.8
12.5°	1441.8	1441.8	1433.5	1424.3	1416.0	1412.3	1411.4	1417.9	1426.2	1431.7	1433.5
15°	1446.4	1444.6	1434.5	1422.5	1414.2	1413.2	1412.3	1416.9	1428.9	1440.0	1440.9
17.5°	1449.2	1448.3	1435.4	1420.6	1416.0	1416.0	1415.1	1418.8	1431.7	1445.5	1446.4
20°	1458.4	1455.7	1440.9	1425.2	1421.5	1423.4	1420.6	1425.2	1439.1	1455.7	1459.3
22.5°	1476.9	1474.1	1459.3	1443.7	1441.8	1441.8	1440.9	1445.5	1460.3	1477.8	1480.5
25°	1499.0	1496.2	1482.4	1471.3	1473.2	1476.9	1475.0	1475.9	1487.9	1502.7	1507.3
27.5°	1528.5	1523.9	1511.9	1502.7	1508.2	1508.2	1508.2	1507.3	1514.7	1528.5	1533.1
30°	1564.4	1562.6	1549.7	1548.8	1553.4	1548.8	1548.8	1549.7	1550.6	1563.5	1568.1
32.5°	1611.5	1607.8	1601.3	1599.5	1612.4	1616.1	1603.2	1591.2	1597.6	1610.5	1613.3
35°	1688.9	1683.4	1674.1	1664.0	1674.1	1691.7	1664.0	1654.8	1671.4	1688.9	1690.7
37.5°	1794.0	1791.2	1776.5	1758.0	1757.1	1775.5	1747.0	1746.0	1777.4	1798.6	1801.4
40°	1925.8	1928.6	1910.1	1892.6	1883.4	1898.2	1876.0	1884.3	1914.8	1938.7	1936.9
42.5°	2111.1	2101.0	2072.4	2055.8	2045.7	2040.1	2034.6	2047.5	2081.6	2107.4	2127.7
45°	2327.8	2324.1	2288.1	2267.8	2245.7	2237.4	2235.6	2258.6	2300.1	2331.4	2334.2
47.5°	2573.0	2564.7	2541.6	2520.4	2512.1	2502.0	2492.8	2510.3	2551.8	2573.9	2580.4
50°	2825.6	2827.4	2827.4	2823.7	2832.0	2833.9	2809.0	2815.4	2838.5	2836.6	2834.8
52.5°	3114.1	3124.3	3172.2	3176.8	3216.5	3243.2	3198.0	3171.3	3163.0	3113.2	3116.9
55°	3453.4	3462.6	3534.5	3606.4	3713.3	3758.5	3663.6	3580.6	3521.6	3446.0	3449.7
57.5°	3876.5	3881.1	3949.3	4087.6	4257.3	4363.3	4196.4	4032.3	3912.5	3840.6	3812.0
60°	4331.9	4336.5	4436.1	4604.8	4868.5	4997.5	4791.0	4522.8	4371.6	4261.9	4269.2
62.5°	4878.6	4897.0	4986.5	5218.8	5538.7	5683.4	5409.6	5051.0	4846.3	4709.9	4715.4
65°	5464.0	5495.3	5593.1	5848.4	6143.4	6299.2	5963.7	5549.7	5295.3	5128.4	5146.0
67.5°	5843.8	5871.5	6012.5	6294.6	6662.5	6791.5	6358.2	5876.1	5558.0	5358.9	5322.0
70°	5747.0	5770.1	5958.1	6358.2	6903.1	7066.2	6452.3	5828.1	5453.9	5224.3	5209.6
72.5°	5073.1	5025.2	5299.9	5874.2	6628.3	6902.1	6156.3	5323.0	4851.9	4615.9	4588.2
75°	3362.1	3466.3	3871.9	4548.6	5607.8	5947.1	5254.7	4273.9	3681.1	3484.7	3454.3
77.5°	1123.8	1204.0	1564.4	2578.5	3823.1	4332.9	3828.6	2795.2	1977.4	1593.0	1600.4
80°	297.8	294.1	380.7	708.9	1652.0	2509.4	1923.0	946.8	518.1	375.2	355.8
82.5°	106.9	119.8	154.0	196.4	437.9	779.9	550.4	265.5	194.5	143.8	139.2
85°	47.0	46.1	66.4	78.4	109.7	145.7	129.1	112.5	98.6	65.5	60.8
87.5°	10.1	10.1	15.7	12.0	19.4	19.4	24.0	28.6	29.5	19.4	15.7
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)