

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: P458147

Luminaire Tested: **GALN-SA9C-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

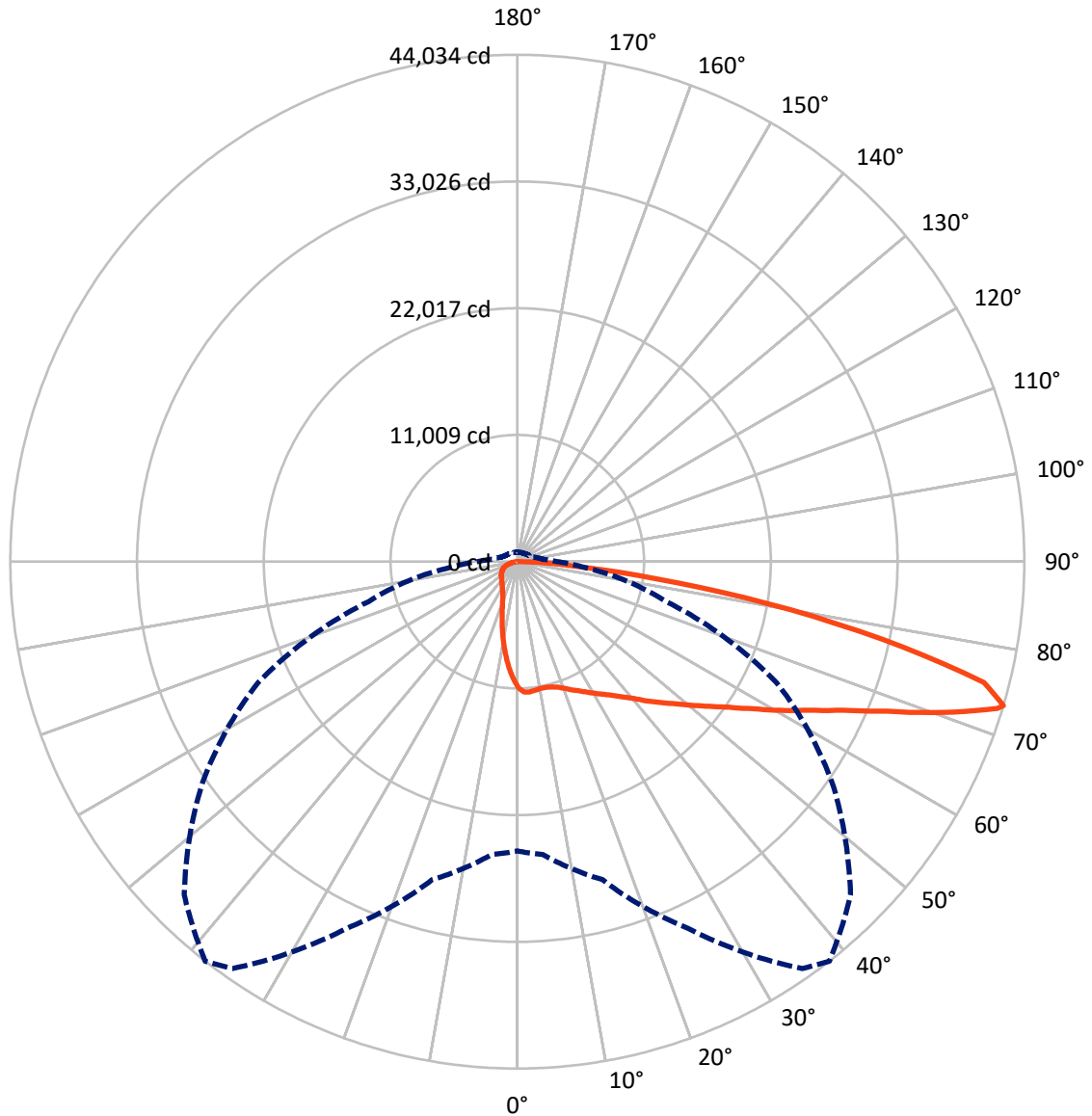
Lumens per Lamp: N/A
Luminaire Lumens: 62386 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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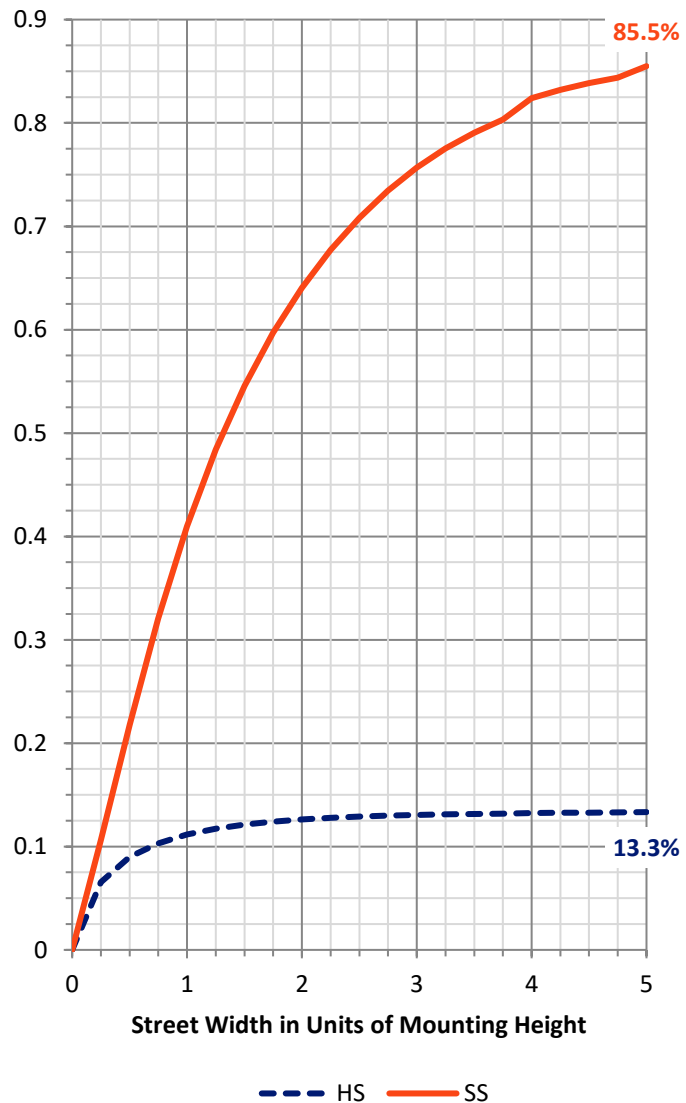
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8386.5	0.0	8386.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	53999.5	0.0	53999.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	62386.0	0.0	62386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.7	1.5
10°-20°	2453.3	3.9
20°-30°	3820.3	6.1
30°-40°	5603.4	9.0
40°-50°	8312.1	13.3
50°-60°	11776.5	18.9
60°-70°	14938.9	23.9
70°-80°	12435.5	19.9
80°-90°	2089.4	3.3
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°	62386.0	100.0
0°-180°	62386.0	100.0

Coefficient of Utilization



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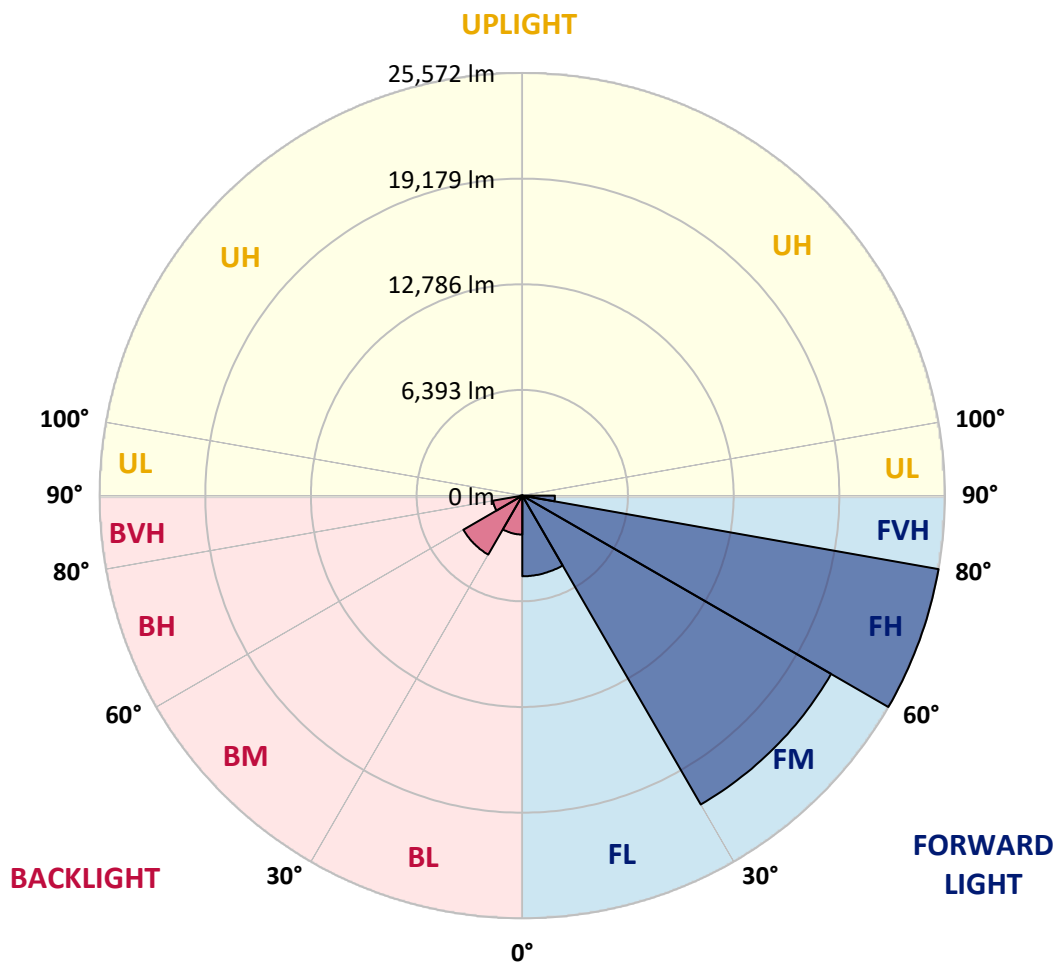
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4876.9	7.8			
FM	(30°-60°)	21574.8	34.6			
FH	(60°-80°)	25571.8	41.0			G5
FVH	(80°-90°)	1976.1	3.2			G5
BL	(0°-30°)	2353.3	3.8	B3/2500		
BM	(30°-60°)	4117.3	6.6	B3/5000		
BH	(60°-80°)	1802.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	113.3	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2
2.5°	11400.5	11456.9	11428.7	11390.0	11365.3	11340.7	11305.4	11203.3	11122.2	11034.1	10896.7
5°	11485.1	11520.3	11495.7	11446.3	11390.0	11365.3	11298.4	11164.5	11034.1	10886.2	10681.8
7.5°	11435.8	11449.9	11421.7	11361.8	11312.5	11266.7	11189.2	11041.2	10882.7	10703.0	10435.2
10°	11259.6	11312.5	11312.5	11263.1	11213.8	11189.2	11111.7	10970.7	10826.3	10622.0	10304.9
12.5°	11115.2	11171.5	11217.3	11203.3	11199.7	11199.7	11139.8	11034.1	10865.0	10671.3	10294.3
15°	11016.5	11083.5	11182.1	11238.5	11273.7	11284.3	11259.6	11168.0	10995.4	10769.9	10336.6
17.5°	10995.4	11076.4	11256.1	11379.4	11471.0	11467.5	11460.4	11333.6	11143.4	10910.8	10389.4
20°	11090.5	11196.2	11446.3	11640.1	11774.0	11749.3	11710.6	11545.0	11323.0	11062.3	10438.8
22.5°	11375.9	11485.1	11759.9	11971.3	12101.6	12101.6	11985.4	11766.9	11530.9	11238.5	10505.7
25°	11784.6	11904.3	12196.7	12411.7	12471.5	12425.7	12309.5	12045.3	11774.0	11492.1	10646.6
27.5°	12284.8	12429.3	12700.5	12880.2	12862.6	12827.4	12707.6	12369.4	12098.1	11840.9	10886.2
30°	12908.4	13014.1	13295.9	13338.2	13274.8	13267.8	13098.6	12760.4	12506.8	12309.5	11227.9
32.5°	13496.7	13591.9	13817.3	13835.0	13722.2	13736.3	13577.8	13267.8	13123.3	13052.8	11802.2
35°	14120.3	14169.6	14363.4	14342.3	14268.3	14257.7	14194.3	13898.4	13944.2	14071.0	12616.0
37.5°	14641.7	14740.4	14849.6	14867.2	14863.7	14898.9	14941.2	14800.3	15064.5	15462.6	13683.5
40°	15120.9	15205.4	15367.5	15423.8	15561.2	15631.7	15776.2	15779.7	16389.2	17044.4	14997.6
42.5°	15445.0	15589.4	15892.4	15994.6	16329.3	16540.7	16755.6	16984.6	17868.8	18710.8	16547.7
45°	15726.8	15917.1	16420.9	16737.9	17192.4	17449.6	17904.1	18383.2	19655.0	20757.7	18122.5
47.5°	16153.1	16322.2	16900.0	17460.2	18147.2	18443.1	19123.0	19838.2	21501.1	22709.5	19630.4
50°	16745.0	16847.2	17435.5	18348.0	19225.2	19605.7	20504.1	21536.3	23474.0	24636.6	20955.0
52.5°	17502.4	17544.7	18013.3	19228.7	20384.3	20856.4	22047.2	23252.0	25200.3	26310.0	22004.9
55°	18397.3	18326.8	18693.2	20162.3	21708.9	22325.5	23604.3	24988.9	27141.5	27662.9	22769.4
57.5°	19281.6	19172.4	19464.8	21296.7	23343.6	24087.0	25577.2	26778.6	28874.8	28927.6	23304.9
60°	20218.7	20137.7	20486.5	22628.5	25348.2	26229.0	27606.5	28635.2	30551.8	29808.4	23389.4
62.5°	21180.5	21050.1	21546.9	24125.7	27606.5	28406.2	29741.5	30608.1	32197.0	30136.0	22575.6
65°	22114.1	22054.2	22822.2	25904.9	30178.3	31087.3	32383.7	32972.1	33514.6	29642.8	20556.9
67.5°	23107.6	23227.4	24453.4	28279.4	33532.3	34673.7	36072.4	35519.2	33891.6	27307.0	17312.2
70°	24622.5	24700.0	26595.4	31390.2	37855.0	39232.5	39908.9	36424.7	32073.7	22871.5	13014.1
72.5°	25274.3	25616.0	28508.4	34656.1	42766.1	43608.1	41198.4	34406.0	26718.7	15536.6	6838.2
73°	25129.8	25538.5	28596.5	35152.8	43150.1	44034.4	40923.6	33366.7	24837.4	13380.5	5862.3
75°	23329.5	23833.3	27451.5	34737.1	42403.3	41874.8	36505.7	28437.9	16783.7	6084.3	2670.5
77.5°	18407.9	18552.3	21751.2	28050.4	33391.3	32411.9	27321.1	17773.7	6855.8	2261.8	1514.9
80°	9233.9	9765.9	12260.2	16068.6	22329.0	22008.4	17245.3	8406.0	2857.2	1328.2	1004.1
82.5°	4442.5	4819.5	5971.5	7835.2	12337.7	12045.3	8539.8	4594.0	1814.4	775.1	591.9
85°	2860.7	3142.5	3801.4	3737.9	5073.2	4844.2	3836.6	3477.2	1074.5	405.1	412.2
87.5°	1888.3	2068.0	2480.2	1983.5	1846.1	1669.9	1694.6	1958.8	211.4	155.0	56.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2	10960.2
2.5°	10840.4	10794.6	10643.1	10495.1	10354.2	10220.3	10132.2	10016.0	9938.5	9959.6	9991.3
5°	10569.1	10466.9	10199.2	9938.5	9691.9	9399.5	9163.4	8973.2	8828.7	8775.9	8765.3
7.5°	10283.7	10111.1	9727.1	9279.7	8860.4	8497.6	8078.3	7870.5	7627.4	7542.8	7514.6
10°	10111.1	9878.6	9339.6	8716.0	8085.4	7482.9	7028.5	6658.5	6323.8	6260.4	6228.7
12.5°	10061.8	9755.3	9029.5	8226.3	7387.8	6648.0	5975.1	5488.9	5164.8	5090.8	4981.6
15°	10033.6	9653.1	8740.7	7733.1	6669.1	5767.2	5059.1	4491.9	4195.9	3998.6	4002.2
17.5°	10008.9	9536.9	8416.5	7194.0	6049.1	5009.8	4227.6	3716.8	3445.5	3339.8	3329.3
20°	9973.7	9399.5	8043.1	6626.8	5340.9	4319.2	3611.1	3230.6	3047.4	2959.3	2955.8
22.5°	9959.6	9265.6	7676.7	6049.1	4713.8	3787.3	3202.4	2934.7	2818.4	2758.5	2758.5
25°	9994.9	9170.5	7292.7	5499.5	4157.2	3332.8	2920.6	2737.4	2670.5	2638.8	2628.2
27.5°	10104.1	9128.2	6912.2	4949.9	3646.3	3022.8	2730.4	2603.5	2554.2	2529.5	2533.1
30°	10311.9	9124.7	6538.8	4407.3	3265.9	2786.7	2578.9	2490.8	2452.0	2437.9	2434.4
32.5°	10646.6	9202.2	6172.4	3959.9	2945.3	2589.4	2437.9	2374.5	2356.9	2346.3	2342.8
35°	11213.8	9420.6	5809.5	3551.2	2698.6	2413.3	2304.1	2272.4	2247.7	2258.3	2261.8
37.5°	11978.3	9797.6	5464.2	3230.6	2511.9	2282.9	2191.3	2163.1	2149.1	2159.6	2170.2
40°	13003.5	10340.1	5175.3	2973.4	2378.0	2173.7	2092.7	2068.0	2053.9	2071.5	2075.1
42.5°	14134.4	10967.2	4935.8	2772.6	2268.8	2082.1	2004.6	1976.4	1965.9	1976.4	1979.9
45°	15297.0	11696.5	4812.5	2628.2	2177.2	2015.2	1934.1	1902.4	1877.8	1870.7	1881.3
47.5°	16442.0	12330.6	4808.9	2540.1	2103.3	1955.3	1867.2	1832.0	1800.3	1782.7	1779.1
50°	17375.6	12834.4	4893.5	2501.4	2039.8	1888.3	1800.3	1765.0	1722.8	1687.5	1694.6
52.5°	18080.2	13162.1	4932.2	2483.7	2004.6	1817.9	1729.8	1698.1	1648.8	1603.0	1603.0
55°	18534.7	13239.6	4837.1	2466.1	1976.4	1743.9	1648.8	1620.6	1571.3	1525.5	1525.5
57.5°	18689.7	13000.0	4495.4	2423.8	1948.2	1680.5	1567.8	1543.1	1504.3	1458.5	1451.5
60°	18330.4	12189.7	3896.5	2297.0	1891.9	1613.6	1479.7	1469.1	1455.0	1416.3	1412.7
62.5°	16945.8	10470.5	3244.7	2131.4	1796.7	1543.1	1398.6	1416.3	1426.8	1405.7	1402.2
65°	14641.7	8501.1	2772.6	1902.4	1669.9	1444.4	1310.6	1356.4	1384.6	1384.6	1377.5
67.5°	11876.2	6528.2	2335.8	1705.1	1511.4	1310.6	1211.9	1247.2	1268.3	1261.2	1278.9
70°	8441.2	4421.4	1902.4	1479.7	1310.6	1159.1	1085.1	1085.1	1071.0	1064.0	1064.0
72.5°	4093.8	2526.0	1543.1	1236.6	1116.8	990.0	930.1	905.4	877.2	873.7	856.1
73°	3420.9	2265.3	1472.6	1190.8	1071.0	965.3	898.4	859.6	842.0	827.9	824.4
75°	2082.1	1719.2	1229.5	1004.1	912.5	831.4	771.5	736.3	718.7	708.1	704.6
77.5°	1370.5	1282.4	954.7	768.0	697.6	648.2	623.6	588.3	577.8	563.7	563.7
80°	1021.7	979.4	683.5	542.5	500.3	458.0	450.9	443.9	415.7	398.1	391.1
82.5°	658.8	697.6	465.0	362.9	317.1	281.8	285.4	295.9	267.8	243.1	236.0
85°	468.6	503.8	281.8	165.6	133.9	116.3	130.4	116.3	119.8	95.1	77.5
87.5°	77.5	133.9	49.3	21.1	10.6	7.0	0.0	0.0	0.0	0.0	0.0
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)