

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: LUMARK

Report Number: P622690

Luminaire Tested: **PRV-M-PA6B-8540-U-T4W**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-12)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6B-8540-U-T4W
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40783.4 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

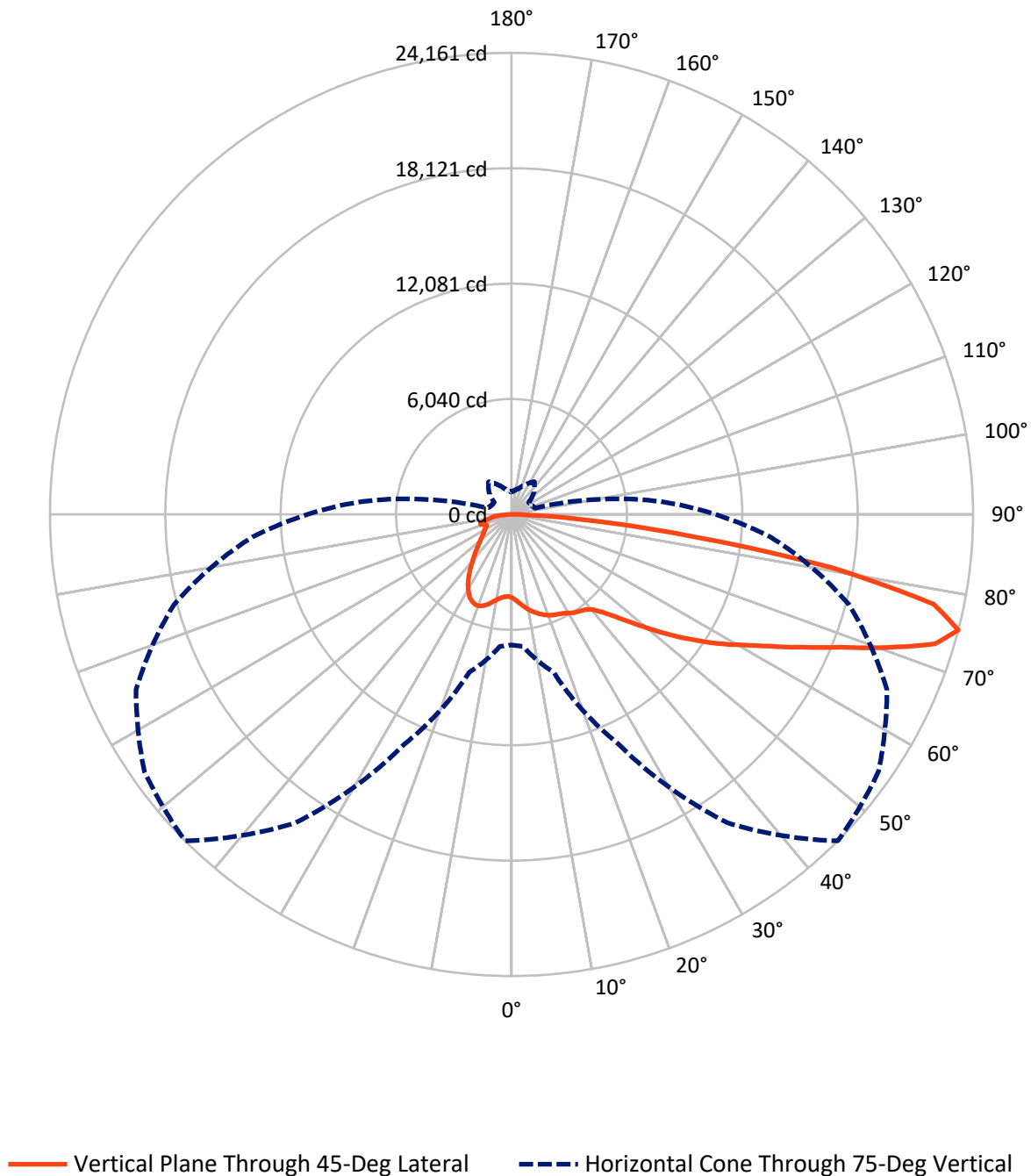
Input Watts (W): 365.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Luminous Intensity Polar Plot



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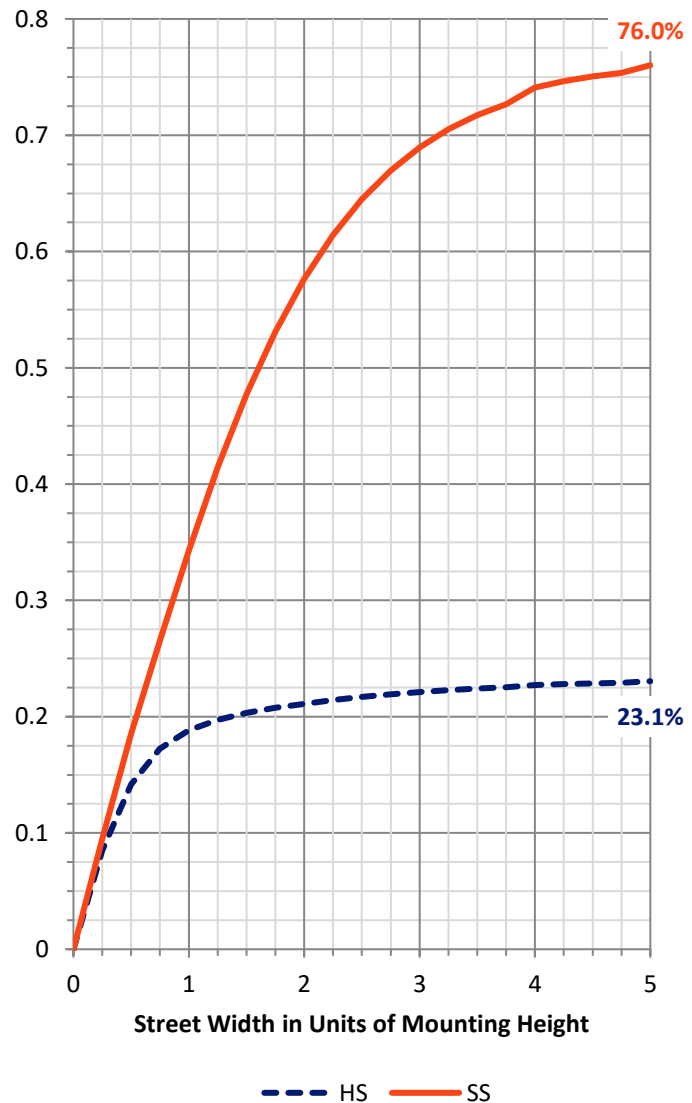
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9597.1	0.0	9597.1
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	31186.3	0.0	31186.3
	% Fixture	76.5	0.0	76.5
Total	Lumens	40783.4	0.0	40783.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.2	1.1
10°-20°	1452.6	3.6
20°-30°	2500.0	6.1
30°-40°	3444.6	8.4
40°-50°	4798.6	11.8
50°-60°	7184.2	17.6
60°-70°	10183.1	25.0
70°-80°	9157.7	22.5
80°-90°	1623.3	4.0
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°	40783.4	100.0
0°-180°	40783.4	100.0

Coefficient of Utilization



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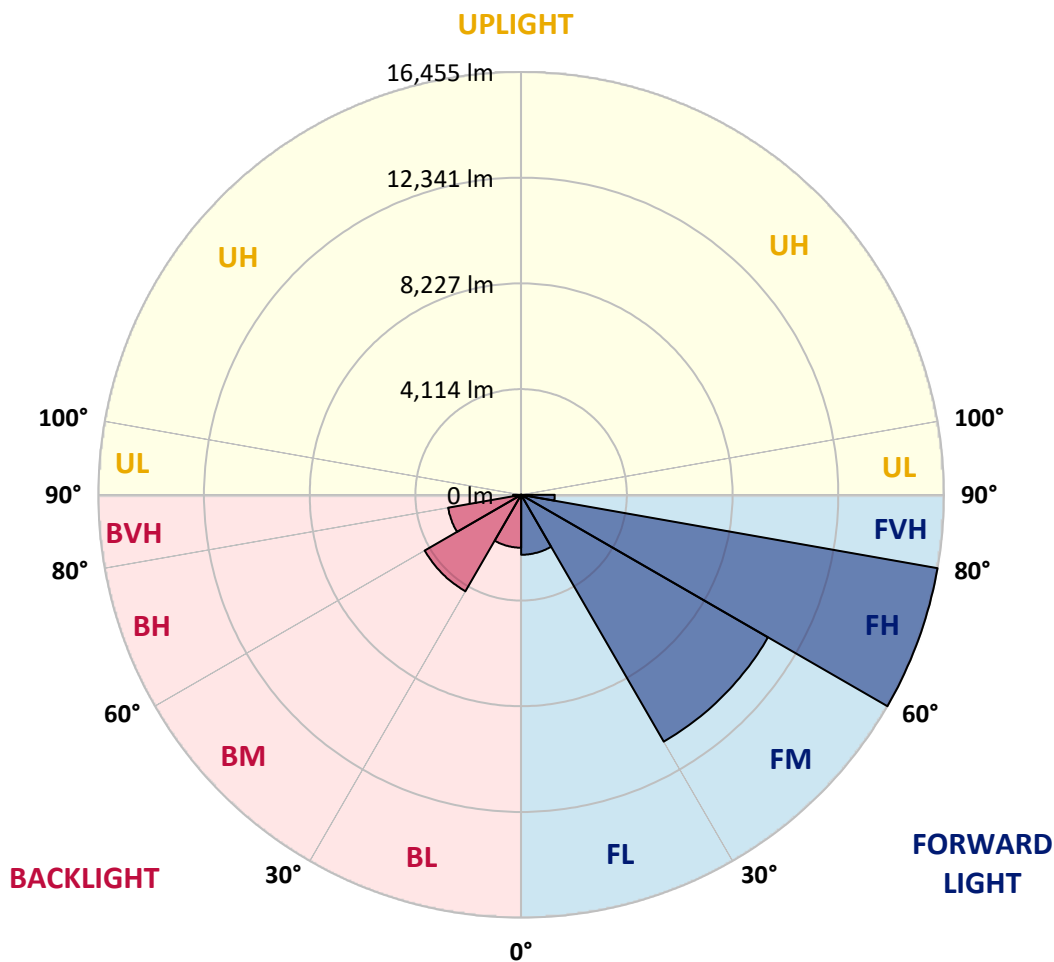
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2332.7	5.7			
FM	(30°-60°)	11090.4	27.2			
FH	(60°-80°)	16454.9	40.3			G5
FVH	(80°-90°)	1308.2	3.2			G5
BL	(0°-30°)	2059.0	5.0	B3/2500		
BM	(30°-60°)	4337.1	10.6	B3/5000		
BH	(60°-80°)	2885.9	7.1	B4/5000		G4/5000
BVH	(80°-90°)	315.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8
2.5°	4600.3	4588.4	4581.4	4544.8	4517.1	4501.3	4463.6	4435.9	4397.3	4367.7	4358.7
5°	4922.9	4900.2	4881.3	4820.0	4754.7	4690.3	4599.3	4520.1	4434.0	4368.7	4346.9
7.5°	5239.6	5221.8	5183.2	5089.2	4992.2	4887.3	4755.6	4638.9	4517.1	4426.1	4391.5
10°	5517.7	5494.9	5428.6	5321.7	5196.1	5081.3	4932.8	4799.2	4658.6	4547.8	4503.3
12.5°	5757.2	5723.6	5639.5	5506.8	5357.4	5239.6	5100.1	4977.4	4823.0	4694.2	4640.8
15°	5957.1	5918.5	5831.5	5659.3	5491.0	5393.0	5271.3	5155.5	4996.2	4846.7	4786.3
17.5°	6102.6	6069.0	5971.0	5769.1	5598.9	5523.7	5425.7	5322.8	5167.3	5002.1	4944.6
20°	6158.1	6117.5	6032.4	5823.6	5672.1	5637.5	5562.3	5475.2	5329.6	5166.4	5104.0
22.5°	6108.6	6075.0	6006.6	5815.7	5702.8	5707.8	5662.3	5603.9	5479.1	5317.8	5264.3
25°	6034.3	5998.7	5947.3	5785.0	5725.6	5770.1	5753.2	5724.6	5632.5	5477.2	5422.7
27.5°	6004.7	5963.1	5923.6	5786.9	5772.1	5860.2	5867.1	5868.1	5790.9	5633.5	5593.0
30°	6090.8	6044.3	5988.9	5845.3	5856.2	5985.9	6028.4	6008.7	5925.5	5783.9	5748.3
32.5°	6353.0	6303.5	6203.6	5984.9	5959.2	6117.5	6168.9	6110.6	6032.4	5919.6	5905.7
35°	6944.0	6867.7	6667.8	6275.8	6092.8	6198.7	6270.9	6228.4	6165.0	6097.7	6113.5
37.5°	7909.9	7805.0	7483.4	6811.3	6345.1	6313.5	6414.4	6415.4	6357.0	6329.3	6371.9
40°	9047.1	8937.2	8602.7	7672.4	6835.0	6556.0	6648.0	6695.5	6643.1	6661.8	6724.2
42.5°	10152.6	10038.8	9799.3	8752.1	7495.2	6991.4	7009.3	7126.0	7073.5	7136.9	7246.8
45°	11038.4	10942.4	10846.4	9799.3	8408.7	7630.8	7503.1	7708.9	7690.2	7813.9	7967.3
47.5°	11664.0	11565.0	11576.8	10795.0	9497.4	8447.3	8138.5	8480.0	8490.9	8763.0	8932.3
50°	12167.7	12071.7	12103.4	11641.2	10593.1	9428.2	8940.2	9390.5	9567.7	9980.4	10183.3
52.5°	12737.8	12655.6	12724.9	12411.2	11747.0	10490.1	9872.5	10491.1	10766.2	11414.5	11621.4
55°	13380.1	13308.9	13527.6	13335.6	12993.2	11602.6	10908.8	11737.2	12080.6	13081.2	13344.5
57.5°	13895.7	13819.6	14281.8	14468.8	14317.4	12744.7	12058.8	13033.7	13382.1	14940.9	15195.3
60°	14490.6	14380.7	14959.8	15541.7	15717.9	13868.0	13353.4	14456.9	14796.4	16958.0	17033.2
62.5°	14852.8	14768.7	15547.6	16497.7	16974.8	15182.4	14833.1	15875.2	16242.4	19043.3	18682.1
65°	14348.1	14389.7	15871.3	17261.9	18115.0	16760.0	16461.2	17378.6	17754.7	20904.1	19792.6
67.5°	13306.9	13386.1	15500.1	17761.7	19280.9	18560.4	18175.4	18962.2	19219.5	21994.7	19979.7
70°	12077.6	12149.9	14310.5	17856.6	20372.6	20855.5	20283.5	20679.3	20351.7	21592.9	18613.8
72.5°	10233.8	10425.8	12093.5	16628.4	20846.6	23182.4	22552.0	21998.7	20287.5	18831.5	15354.6
75°	6833.1	6929.1	8556.2	13262.4	19702.5	24161.2	23458.5	21685.0	18299.1	13615.7	10678.2
77.5°	3019.6	3320.5	4447.8	7775.3	15394.2	22600.4	21523.6	18162.5	12691.3	7482.3	5302.9
80°	1106.5	1170.8	1736.0	3217.6	8929.3	17114.3	15611.9	11581.8	6415.4	2839.5	1981.5
82.5°	618.6	648.2	944.2	1472.7	4008.4	9550.9	8685.8	4994.1	2212.1	933.3	832.3
85°	341.5	356.3	579.0	924.4	1948.8	4149.9	3306.7	1693.4	895.7	374.1	354.3
87.5°	150.4	176.2	311.8	468.2	888.8	949.2	822.5	661.2	417.7	141.6	124.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8	4355.8
2.5°	4348.9	4334.0	4325.1	4305.3	4293.4	4297.4	4299.4	4306.3	4318.2	4292.5
5°	4331.1	4310.3	4308.3	4308.3	4322.2	4343.9	4364.7	4381.5	4406.3	4373.6
7.5°	4369.6	4346.9	4347.8	4361.7	4389.4	4431.0	4476.6	4507.2	4542.9	4504.3
10°	4483.5	4455.7	4464.7	4475.5	4506.2	4554.7	4615.1	4668.6	4712.1	4683.4
12.5°	4622.0	4597.3	4603.3	4628.9	4666.6	4712.1	4767.5	4817.0	4859.5	4821.9
15°	4763.5	4752.7	4763.5	4805.1	4850.7	4872.5	4878.4	4902.1	4930.8	4899.2
17.5°	4929.8	4916.9	4928.8	4983.2	4994.1	4972.4	4928.8	4919.0	4935.8	4907.1
20°	5086.2	5080.3	5090.2	5117.8	5081.3	5002.1	4929.8	4901.1	4922.9	4894.2
22.5°	5254.5	5220.8	5210.9	5179.2	5078.3	4978.3	4901.1	4875.4	4907.1	4886.3
25°	5417.7	5337.6	5263.4	5142.6	4993.2	4904.1	4845.7	4823.0	4854.6	4845.7
27.5°	5570.2	5430.7	5249.5	5003.1	4836.8	4759.6	4733.9	4727.0	4767.5	4762.6
30°	5727.6	5504.9	5160.4	4790.3	4586.4	4526.1	4563.6	4609.1	4658.6	4667.5
32.5°	5885.9	5557.3	5005.0	4516.1	4294.4	4242.0	4346.9	4450.8	4518.1	4541.9
35°	6075.9	5594.9	4794.2	4194.5	3948.0	3934.2	4061.8	4197.4	4292.5	4310.3
37.5°	6310.5	5616.7	4535.9	3855.0	3587.8	3579.9	3696.6	3820.3	3900.5	3941.1
40°	6636.2	5620.7	4207.3	3476.9	3227.5	3216.6	3263.2	3329.5	3372.0	3417.6
42.5°	7098.3	5606.8	3871.8	3094.9	2914.7	2872.2	2852.4	2840.5	2773.2	2786.1
45°	7728.8	5590.0	3519.5	2762.3	2623.8	2530.7	2470.4	2382.3	2249.6	2247.7
47.5°	8534.4	5611.8	3204.7	2475.3	2374.4	2270.5	2152.6	2015.1	1871.6	1863.6
50°	9480.6	5703.8	2886.1	2227.9	2158.6	2058.7	1924.1	1759.7	1622.1	1609.3
52.5°	10564.3	5810.7	2569.3	2013.1	1993.3	1898.3	1750.9	1584.6	1476.7	1460.8
55°	11841.1	6002.7	2268.4	1835.0	1853.8	1770.6	1624.2	1469.8	1379.6	1370.8
57.5°	13210.9	6175.9	1990.3	1691.4	1735.0	1674.6	1539.1	1398.5	1331.2	1314.3
60°	14678.7	6015.6	1780.5	1567.7	1632.1	1601.4	1466.8	1332.2	1295.6	1286.6
62.5°	15904.9	5360.3	1613.3	1461.9	1544.0	1539.1	1411.4	1303.5	1295.6	1289.6
65°	16547.2	4280.6	1494.5	1372.8	1472.7	1480.7	1402.4	1314.3	1333.1	1340.1
67.5°	16265.2	3108.7	1414.3	1300.5	1413.3	1559.8	1635.1	1592.5	1594.4	1588.6
70°	14838.0	2189.3	1340.1	1244.1	1493.5	1985.4	1970.6	1750.9	1648.9	1590.5
72.5°	12034.1	1620.2	1255.9	1202.5	1706.3	2217.0	1937.9	1586.5	1429.1	1377.7
75°	7796.1	1282.7	1135.2	1106.5	1670.7	2090.3	1715.2	1395.5	1231.2	1180.8
77.5°	3578.9	1034.3	982.8	933.3	1408.4	1803.2	1445.0	1173.8	1034.3	1018.4
80°	1404.4	854.1	794.7	757.2	1153.0	1556.8	1268.9	1026.4	900.7	873.9
82.5°	701.7	675.0	614.7	576.1	977.9	1405.4	1120.4	884.8	774.0	725.4
85°	378.1	451.3	428.5	384.0	689.8	1045.1	816.5	619.6	513.6	508.7
87.5°	187.1	205.9	173.2	183.1	353.4	561.2	503.8	389.0	293.9	307.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)