

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: P381063

Luminaire Tested: **PRV-PA2B-8540-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-8540-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15919.9 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 151
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

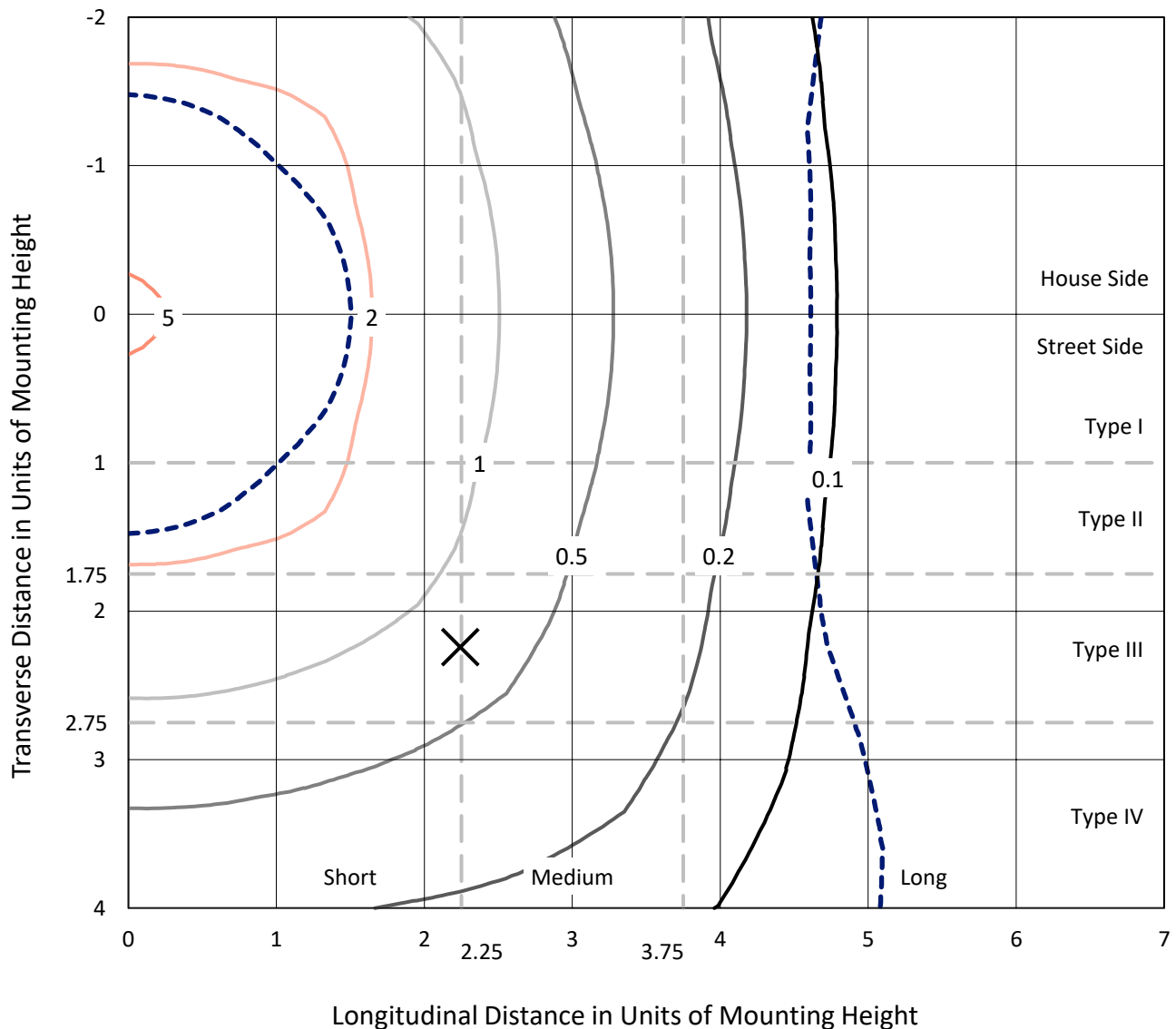


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

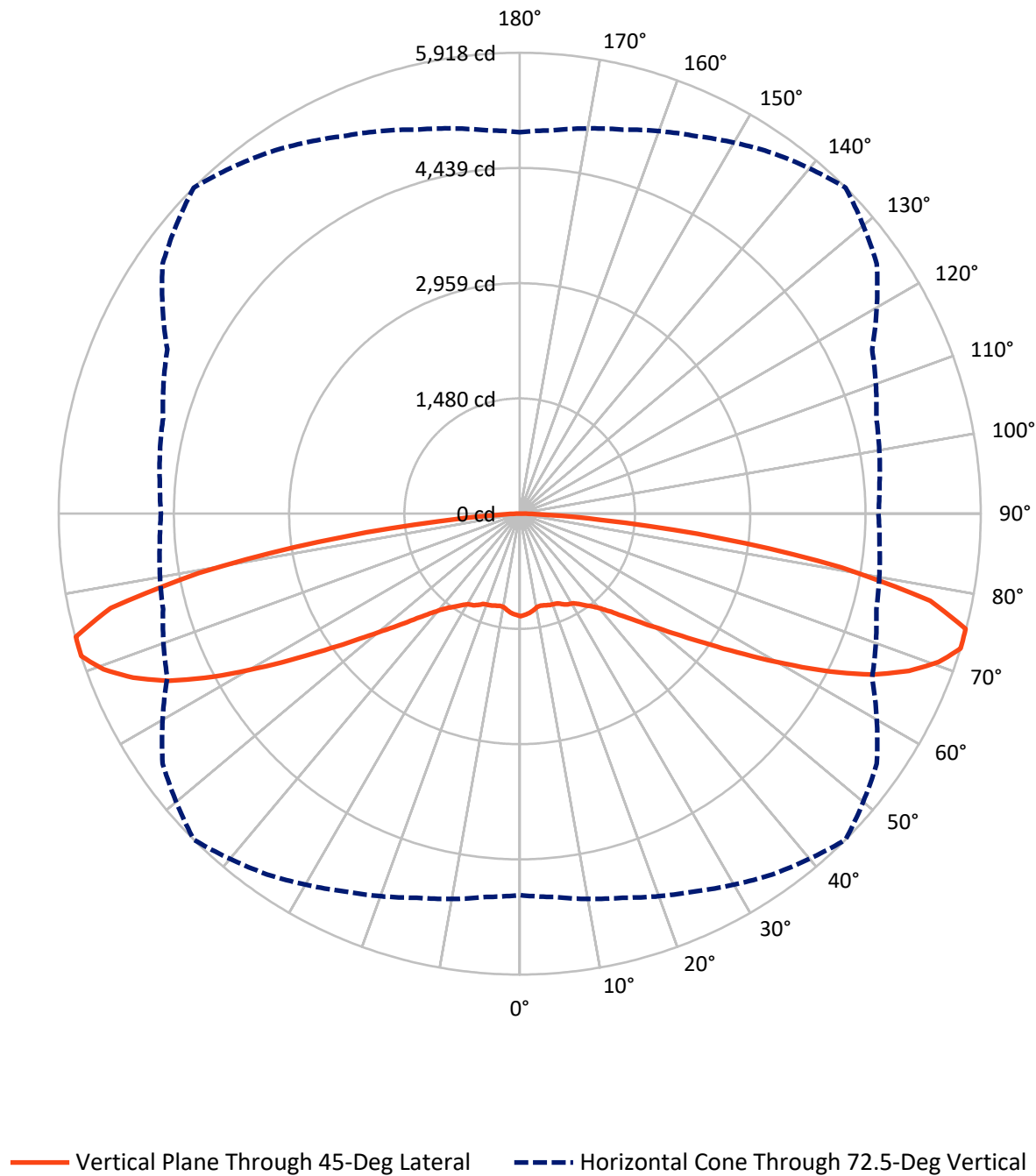


Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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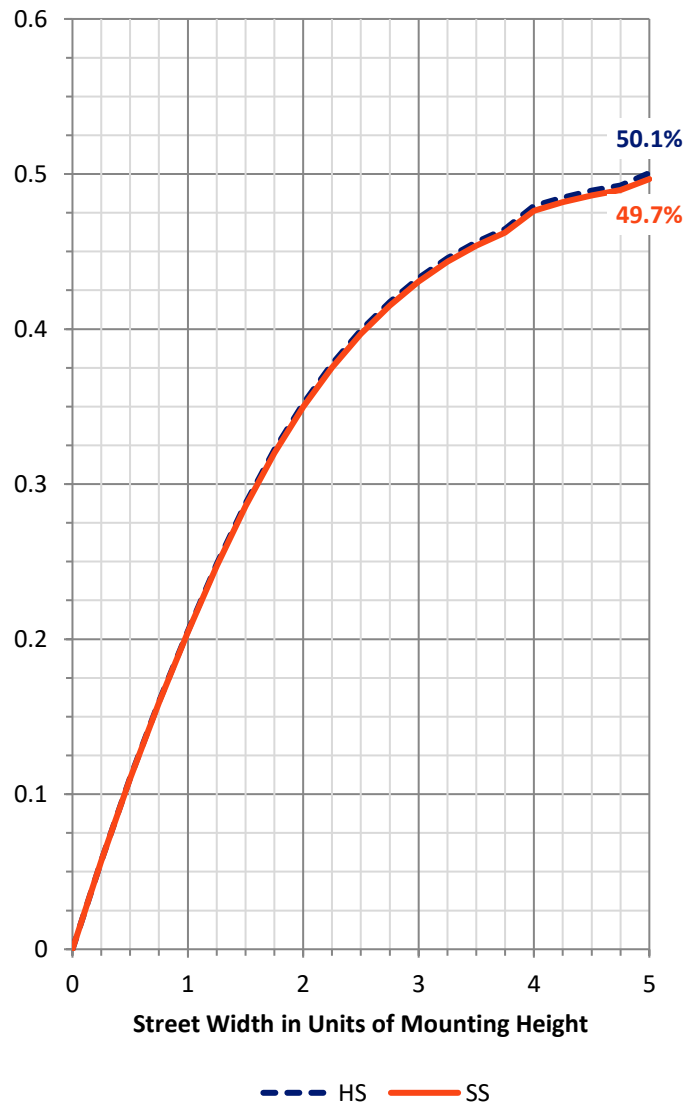
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7960.0	0.0	7960.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7960.0	0.0	7960.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15919.9	0.0	15919.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	0.8
10°-20°	350.7	2.2
20°-30°	595.8	3.7
30°-40°	908.8	5.7
40°-50°	1496.4	9.4
50°-60°	2613.2	16.4
60°-70°	4381.0	27.5
70°-80°	4688.6	29.5
80°-90°	764.7	4.8
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°	15919.9	100.0
0°-180°	15919.9	100.0



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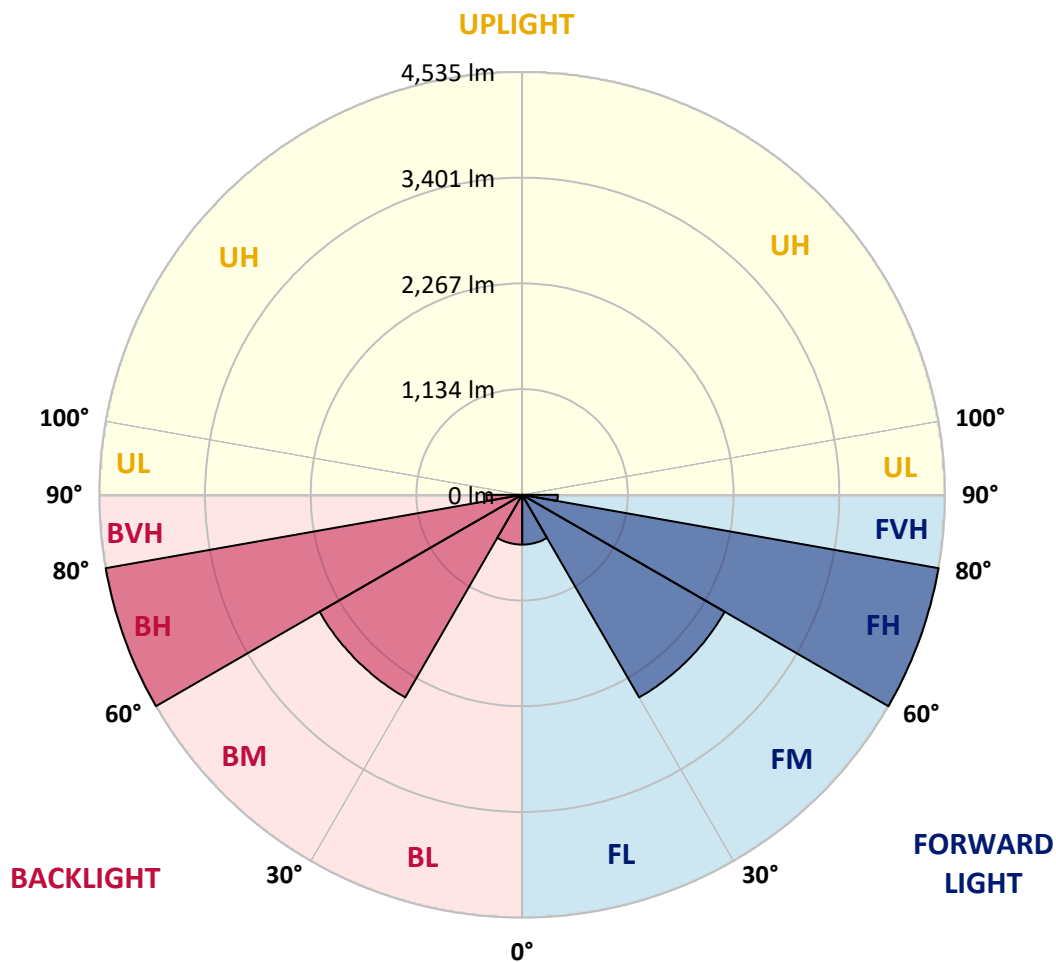
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.6	3.4			
FM	(30°-60°)	2509.2	15.8			
FH	(60°-80°)	4534.8	28.5			G2/5000
FVH	(80°-90°)	382.3	2.4			G3/500
BL	(0°-30°)	533.6	3.4	B2/1000		
BM	(30°-60°)	2509.2	15.8	B3/5000		
BH	(60°-80°)	4534.8	28.5	B4/5000		G2/5000
BVH	(80°-90°)	382.3	2.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1317.4	1317.4	1317.4	1317.4	1317.4	1317.4	1317.4	1317.4	1317.4	1317.4	1317.4
2.5°	1309.3	1309.3	1309.3	1307.2	1303.1	1301.1	1297.0	1299.1	1299.1	1299.1	1299.1
5°	1293.0	1293.0	1290.9	1288.9	1284.9	1282.9	1278.8	1282.9	1282.9	1282.9	1282.9
7.5°	1262.5	1264.5	1264.5	1262.5	1256.4	1254.4	1248.3	1250.3	1250.3	1252.3	1250.3
10°	1246.2	1246.2	1244.2	1234.0	1223.9	1219.8	1217.8	1223.9	1229.9	1236.0	1236.0
12.5°	1246.2	1246.2	1242.2	1225.9	1211.7	1211.7	1211.7	1219.8	1232.0	1244.2	1246.2
15°	1252.3	1252.3	1244.2	1225.9	1217.8	1219.8	1219.8	1228.0	1242.2	1258.4	1260.5
17.5°	1256.4	1256.4	1246.2	1228.0	1228.0	1234.0	1229.9	1236.0	1250.3	1268.6	1270.7
20°	1262.5	1262.5	1248.3	1234.0	1234.0	1240.1	1240.1	1246.2	1258.4	1276.8	1278.8
22.5°	1274.7	1272.7	1258.4	1246.2	1246.2	1250.3	1254.4	1262.5	1272.7	1288.9	1293.0
25°	1288.9	1288.9	1276.8	1274.7	1278.8	1288.9	1286.9	1284.9	1288.9	1303.1	1309.3
27.5°	1297.0	1297.0	1288.9	1295.0	1311.3	1319.4	1309.3	1301.1	1301.1	1315.4	1317.4
30°	1323.5	1321.5	1313.3	1317.4	1331.6	1335.7	1329.6	1319.4	1325.5	1341.8	1343.8
32.5°	1368.2	1368.2	1356.0	1356.0	1366.2	1382.5	1362.1	1356.0	1364.1	1382.5	1384.5
35°	1437.4	1437.4	1421.1	1412.9	1421.1	1443.5	1412.9	1410.9	1425.1	1445.5	1447.5
37.5°	1524.7	1524.7	1514.6	1494.3	1496.3	1510.6	1484.1	1482.1	1508.5	1530.8	1530.8
40°	1634.5	1640.6	1630.4	1606.1	1597.9	1600.0	1579.6	1581.7	1612.2	1638.6	1638.6
42.5°	1770.8	1774.8	1758.5	1740.3	1730.1	1724.0	1703.7	1707.7	1744.3	1778.9	1778.9
45°	1935.4	1937.5	1921.2	1898.9	1886.6	1882.6	1862.2	1872.4	1913.1	1949.7	1947.6
47.5°	2120.4	2122.5	2106.2	2083.9	2075.7	2081.8	2061.5	2061.5	2098.0	2128.6	2124.5
50°	2329.8	2333.9	2315.6	2305.5	2299.4	2315.6	2291.2	2268.8	2293.3	2323.7	2319.6
52.5°	2561.6	2571.8	2559.5	2563.6	2586.0	2606.3	2565.7	2516.9	2529.1	2549.4	2543.3
55°	2842.1	2854.3	2858.4	2872.7	2931.6	2966.2	2899.1	2817.8	2811.7	2813.7	2803.5
57.5°	3157.3	3165.4	3191.8	3224.4	3346.3	3401.3	3295.5	3155.3	3110.5	3084.1	3078.0
60°	3474.4	3488.7	3553.7	3620.8	3807.8	3907.5	3744.8	3509.0	3413.4	3364.6	3354.5
62.5°	3793.6	3822.1	3927.8	4041.6	4314.1	4462.5	4212.4	3870.8	3732.6	3671.6	3655.4
65°	4163.6	4198.2	4326.2	4470.6	4773.6	4982.9	4680.0	4245.0	4096.5	4015.2	3994.9
67.5°	4596.7	4633.2	4736.9	4897.5	5184.2	5389.5	5121.1	4627.1	4434.0	4330.3	4314.1
70°	4952.4	4985.0	5096.8	5259.4	5472.9	5706.7	5450.5	4932.1	4757.3	4684.1	4673.9
72.5°	4897.5	4940.3	5104.9	5348.8	5653.8	5918.1	5594.8	4991.1	4739.0	4637.3	4604.7
75°	4277.5	4324.2	4519.4	4960.5	5517.6	5912.0	5385.5	4598.7	4301.9	4216.5	4200.2
77.5°	2832.0	2876.7	3206.1	3901.4	4818.3	5387.5	4753.2	3852.6	3374.8	3169.5	3157.3
80°	1144.6	1201.5	1516.6	2254.6	3415.4	4188.0	3525.2	2466.1	1663.0	1341.8	1276.8
82.5°	266.3	317.1	461.5	831.5	1748.4	2608.3	1900.9	921.0	534.7	380.1	341.5
85°	111.8	113.8	197.2	270.4	546.8	1053.1	622.1	335.4	272.4	199.3	195.2
87.5°	42.7	44.7	95.5	113.8	174.8	199.3	211.4	172.8	160.6	99.6	95.5
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)