

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: INVUE

Report Number: P180066

Luminaire Tested: **ICM-E02-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180066
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-5WQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.3 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

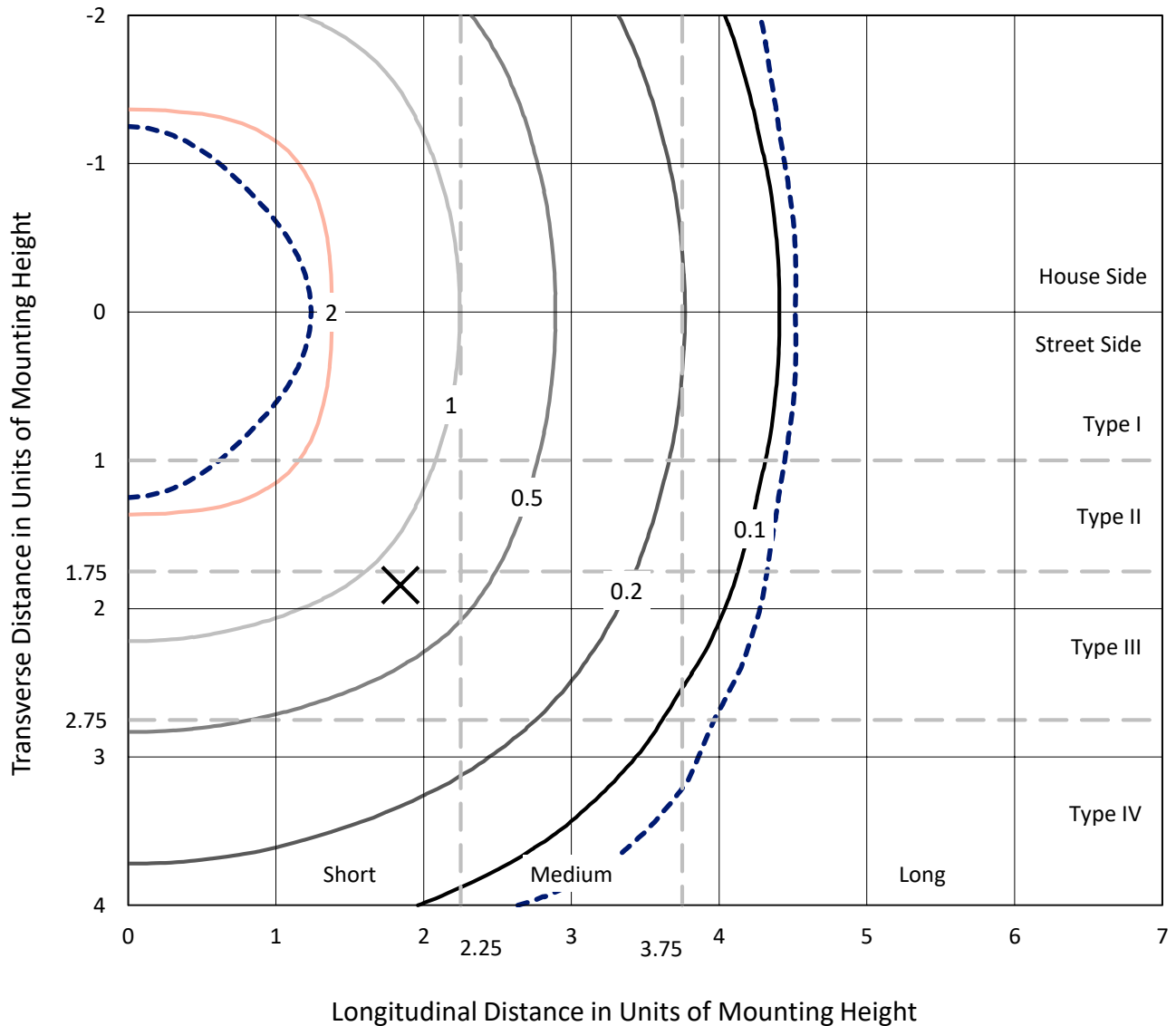
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

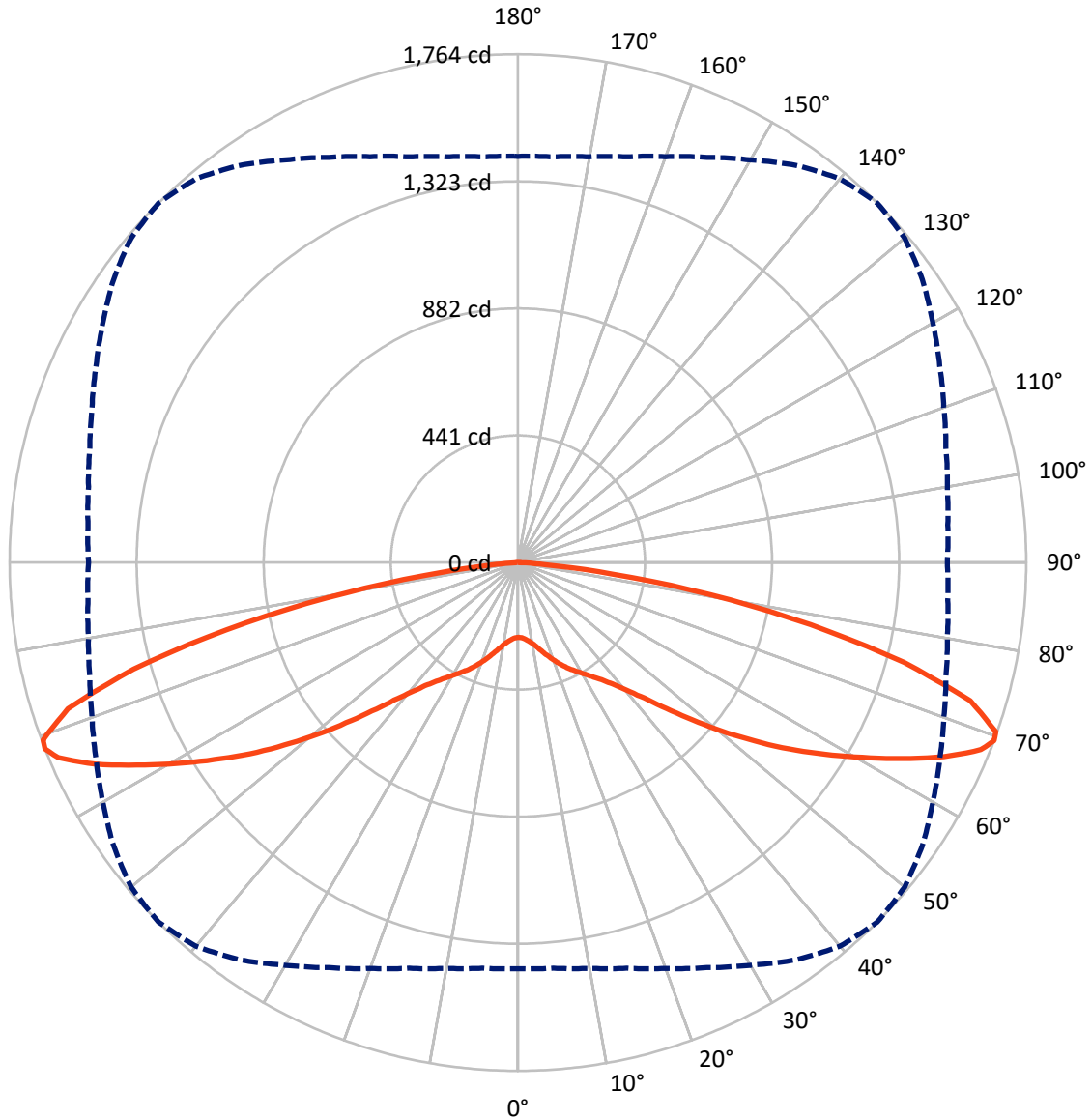
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2499.6	0.0	2499.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2499.6	0.0	2499.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4999.3	0.0	4999.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	0.5
10°-20°	92.1	1.8
20°-30°	186.4	3.7
30°-40°	312.5	6.3
40°-50°	551.2	11.0
50°-60°	972.1	19.4
60°-70°	1484.1	29.7
70°-80°	1240.1	24.8
80°-90°	134.8	2.7
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°	4999.3	100.0
0°-180°	4999.3	100.0



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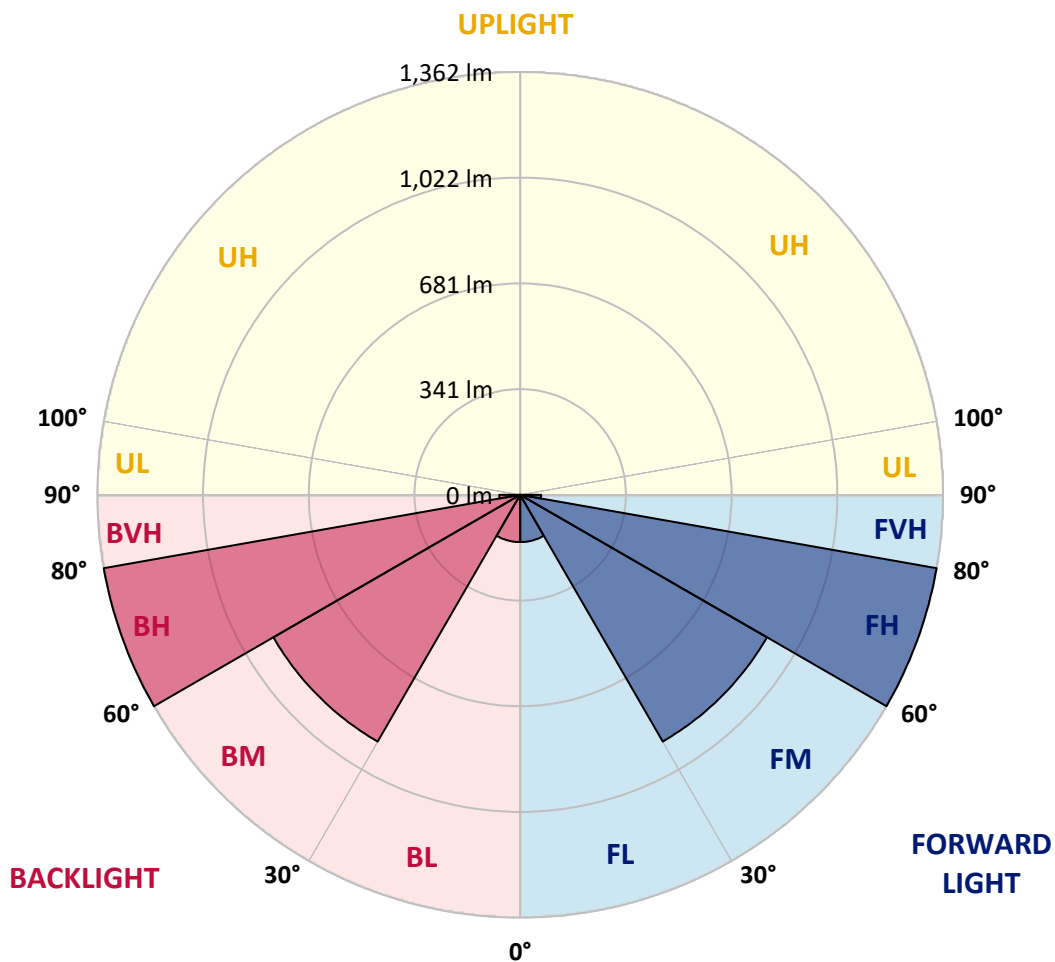
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.3	3.0			
FM (30°-60°)	917.9	18.4			
FH (60°-80°)	1362.1	27.2			G1/1800
FVH (80°-90°)	67.4	1.3			G1/100
BL (0°-30°)	152.3	3.0	B1/500		
BM (30°-60°)	917.9	18.4	B1/1000		
BH (60°-80°)	1362.1	27.2	B3/2500		G1/1800
BVH (80°-90°)	67.4	1.3			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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	259.6	259.6	259.6	259.6	259.6	259.6	259.6	259.6	259.6	259.6	259.6
2.5°	261.7	262.2	261.7	261.7	261.7	261.7	261.7	261.2	261.2	261.2	261.7
5°	267.0	267.4	267.0	267.4	267.4	267.4	267.4	267.0	267.0	267.0	267.0
7.5°	275.4	275.4	275.4	275.8	275.4	275.4	275.8	275.4	275.4	275.4	275.4
10°	287.4	286.8	286.8	286.8	286.8	286.8	287.4	287.4	287.4	286.8	286.8
12.5°	302.0	301.5	302.0	302.0	302.5	302.5	302.5	302.5	302.5	302.5	302.0
15°	319.8	319.8	319.8	320.3	321.4	321.4	320.8	321.4	321.4	321.4	321.4
17.5°	339.7	340.7	339.7	340.2	340.7	340.2	341.3	341.8	342.3	341.8	340.2
20°	360.1	360.7	360.7	360.7	360.7	361.7	362.2	362.2	363.7	363.3	362.7
22.5°	379.4	380.6	380.6	381.0	381.0	382.6	382.6	382.6	383.6	384.7	383.6
25°	399.9	399.4	399.4	400.4	400.9	403.0	403.0	404.1	405.7	406.1	405.1
27.5°	418.2	417.7	417.7	419.3	419.8	422.4	422.4	424.5	425.5	426.0	425.0
30°	437.6	437.6	437.0	438.6	440.2	442.2	443.4	445.4	447.0	447.5	446.4
32.5°	460.6	459.5	460.1	461.1	462.1	464.3	465.9	468.5	470.5	471.1	470.0
35°	486.8	485.2	485.7	486.8	488.4	491.4	494.1	495.6	498.8	499.8	497.8
37.5°	515.5	516.1	515.5	518.1	520.7	524.5	527.6	529.7	532.8	534.4	532.8
40°	556.4	554.8	556.4	559.0	563.2	567.9	574.1	575.7	578.9	582.1	578.3
42.5°	609.2	608.2	611.9	614.0	618.7	623.9	631.7	635.9	640.7	642.7	639.6
45°	678.3	678.3	682.5	683.1	690.3	697.2	708.2	713.4	722.3	722.3	722.3
47.5°	754.8	757.9	760.5	765.8	771.0	783.5	794.5	806.1	814.4	815.4	813.9
50°	833.8	836.9	844.7	852.1	863.6	879.4	891.4	906.5	913.9	920.2	918.1
52.5°	921.2	921.7	931.2	940.6	957.3	974.6	994.0	1009.7	1022.7	1028.5	1023.8
55°	1016.9	1018.1	1026.4	1036.4	1055.2	1075.1	1099.2	1115.4	1132.1	1142.6	1134.7
57.5°	1120.7	1121.1	1129.5	1141.6	1164.1	1183.9	1207.0	1230.1	1245.7	1255.2	1249.9
60°	1235.3	1237.9	1244.1	1259.4	1280.8	1301.7	1324.8	1345.1	1363.5	1373.4	1368.2
62.5°	1357.7	1360.4	1369.2	1381.3	1400.1	1423.2	1445.1	1471.3	1486.5	1497.5	1489.6
65°	1439.9	1444.6	1458.7	1475.0	1502.7	1532.6	1558.1	1593.8	1612.1	1625.2	1617.9
67.5°	1445.1	1447.7	1465.0	1489.6	1526.8	1571.8	1624.1	1679.6	1715.7	1733.0	1720.5
69°	1409.5	1413.2	1430.0	1457.7	1499.1	1551.4	1613.7	1682.8	1738.2	1763.9	1751.8
70°	1369.2	1377.1	1395.5	1425.8	1466.1	1521.0	1585.4	1659.2	1724.1	1759.2	1750.2
72.5°	1284.5	1286.5	1298.6	1322.6	1353.5	1399.1	1459.8	1529.4	1591.2	1641.4	1648.8
75°	1140.0	1146.8	1155.7	1171.9	1187.6	1220.6	1261.4	1309.0	1345.1	1383.9	1385.5
77.5°	861.5	882.0	888.7	892.4	899.3	925.4	960.9	1002.3	1032.2	1038.4	1037.4
80°	386.8	414.0	420.3	450.1	468.5	511.9	566.3	629.7	672.1	676.7	665.2
82.5°	75.9	81.1	94.7	118.3	161.2	186.9	222.4	267.0	307.7	331.4	317.2
85°	25.1	26.7	30.9	34.0	39.3	44.5	54.0	67.0	83.3	92.1	82.1
87.5°	10.0	10.0	11.5	12.6	13.6	13.6	13.6	12.6	12.0	10.0	8.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	259.6	259.6	259.6	259.6	259.6	259.6	259.6	259.6
2.5°	261.2	261.2	261.2	261.2	261.2	261.2	261.2	261.2
5°	267.0	266.4	266.4	265.9	265.9	265.9	265.9	265.9
7.5°	274.8	274.2	273.8	274.2	273.8	273.8	273.8	273.8
10°	286.8	285.8	285.3	284.7	284.7	284.7	284.2	284.2
12.5°	300.9	300.9	300.5	299.9	298.9	299.4	298.9	297.9
15°	320.3	319.3	318.8	318.2	317.2	317.2	317.2	316.7
17.5°	339.7	338.6	338.6	337.1	336.6	336.6	336.6	337.1
20°	361.1	359.5	358.5	357.5	356.5	356.9	355.9	356.9
22.5°	382.6	380.6	379.4	377.9	376.4	376.4	375.8	374.8
25°	403.5	400.9	399.9	398.3	396.2	396.2	395.2	394.1
27.5°	423.4	420.8	419.8	416.7	414.5	414.0	412.9	412.5
30°	445.4	442.2	440.7	437.6	434.4	433.9	432.4	432.4
32.5°	468.5	465.3	464.3	459.5	456.9	456.9	455.9	454.9
35°	497.2	492.6	491.4	486.8	483.1	483.1	482.0	482.6
37.5°	531.3	527.6	523.9	520.3	516.1	515.5	514.5	513.5
40°	576.8	572.7	568.4	563.2	559.5	558.5	556.9	556.4
42.5°	637.5	633.3	624.9	620.7	617.1	614.0	613.4	612.9
45°	715.0	709.8	704.0	696.1	691.4	684.7	683.5	680.9
47.5°	808.1	798.2	788.3	781.5	774.1	766.2	764.7	760.5
50°	907.1	899.3	882.4	871.4	860.0	852.1	846.9	845.3
52.5°	1013.3	998.7	982.0	967.3	950.5	940.0	930.6	928.0
55°	1124.3	1103.4	1082.4	1065.1	1048.4	1035.8	1026.9	1022.7
57.5°	1235.3	1212.2	1189.2	1170.3	1156.2	1140.0	1131.1	1129.0
60°	1350.9	1328.9	1305.4	1286.5	1269.3	1255.2	1249.9	1239.9
62.5°	1473.4	1450.3	1428.4	1410.1	1388.1	1378.1	1369.2	1363.5
65°	1593.8	1567.1	1539.4	1520.0	1498.0	1483.8	1472.8	1465.0
67.5°	1687.0	1646.6	1609.5	1577.0	1547.2	1525.2	1511.1	1503.7
69°	1713.1	1662.9	1615.3	1572.8	1537.8	1513.2	1497.5	1490.1
70°	1710.0	1654.5	1602.1	1555.5	1517.4	1491.2	1476.0	1462.4
72.5°	1613.1	1562.3	1504.3	1453.5	1419.0	1393.9	1378.6	1371.4
75°	1376.6	1342.5	1300.7	1261.4	1236.3	1221.6	1202.8	1203.4
77.5°	1002.3	1003.4	975.1	934.8	906.5	901.3	892.9	884.6
80°	621.8	572.1	539.6	496.2	464.3	436.6	424.5	398.3
82.5°	286.8	224.0	173.8	131.3	101.0	79.1	69.1	56.6
85°	63.8	48.7	40.3	32.5	27.7	25.7	20.9	19.3
87.5°	8.9	7.8	7.3	6.8	5.8	4.2	3.2	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)