

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: P180173

Luminaire Tested: **ICM-F02-LED-E1-5XQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180173
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-5XQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4884.7 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

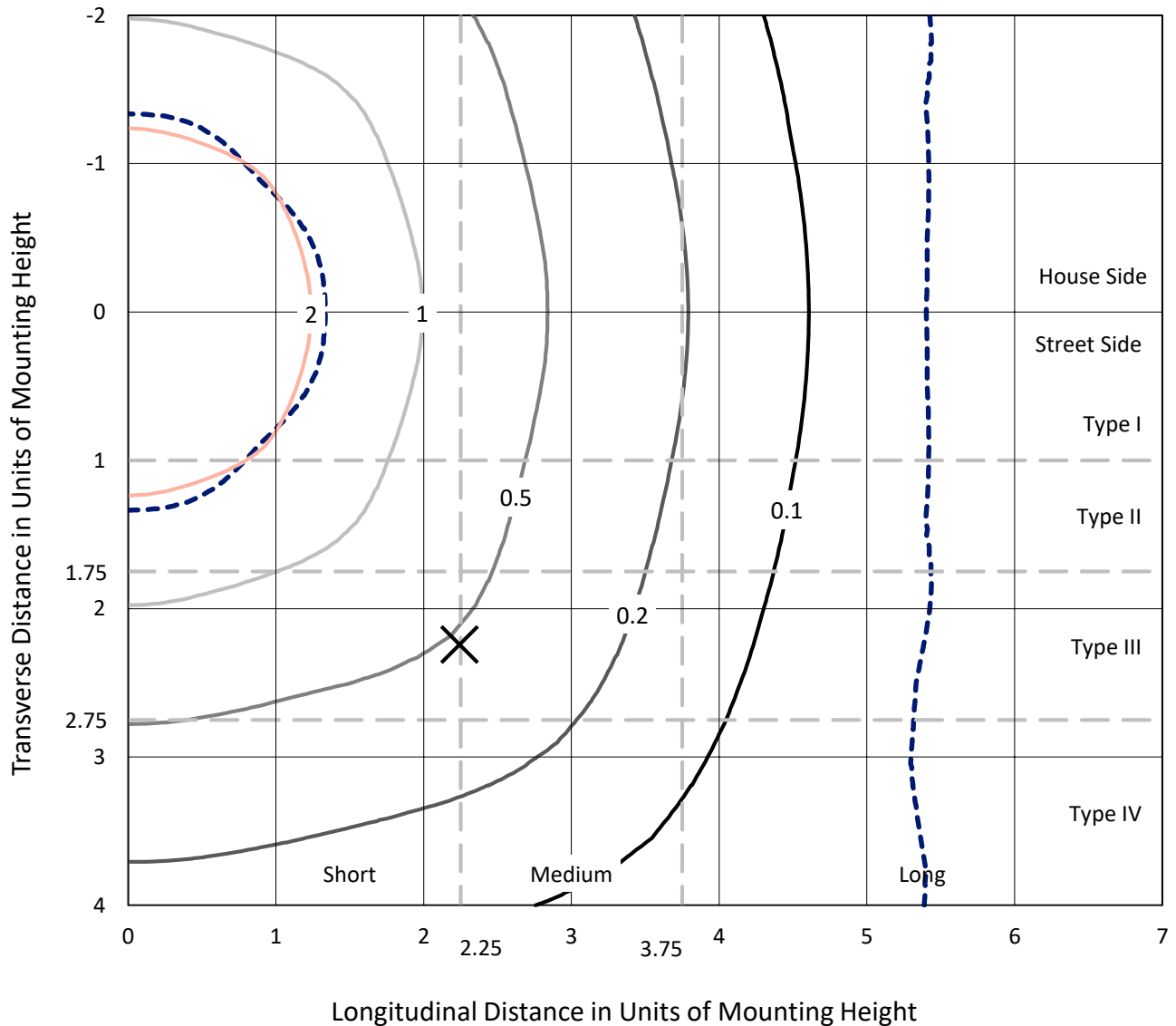
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180173
 CATALOG NUMBER: ICM-F02-LED-E1-5XQ

Iso-Footcandle Lines of Horizontal Illumination

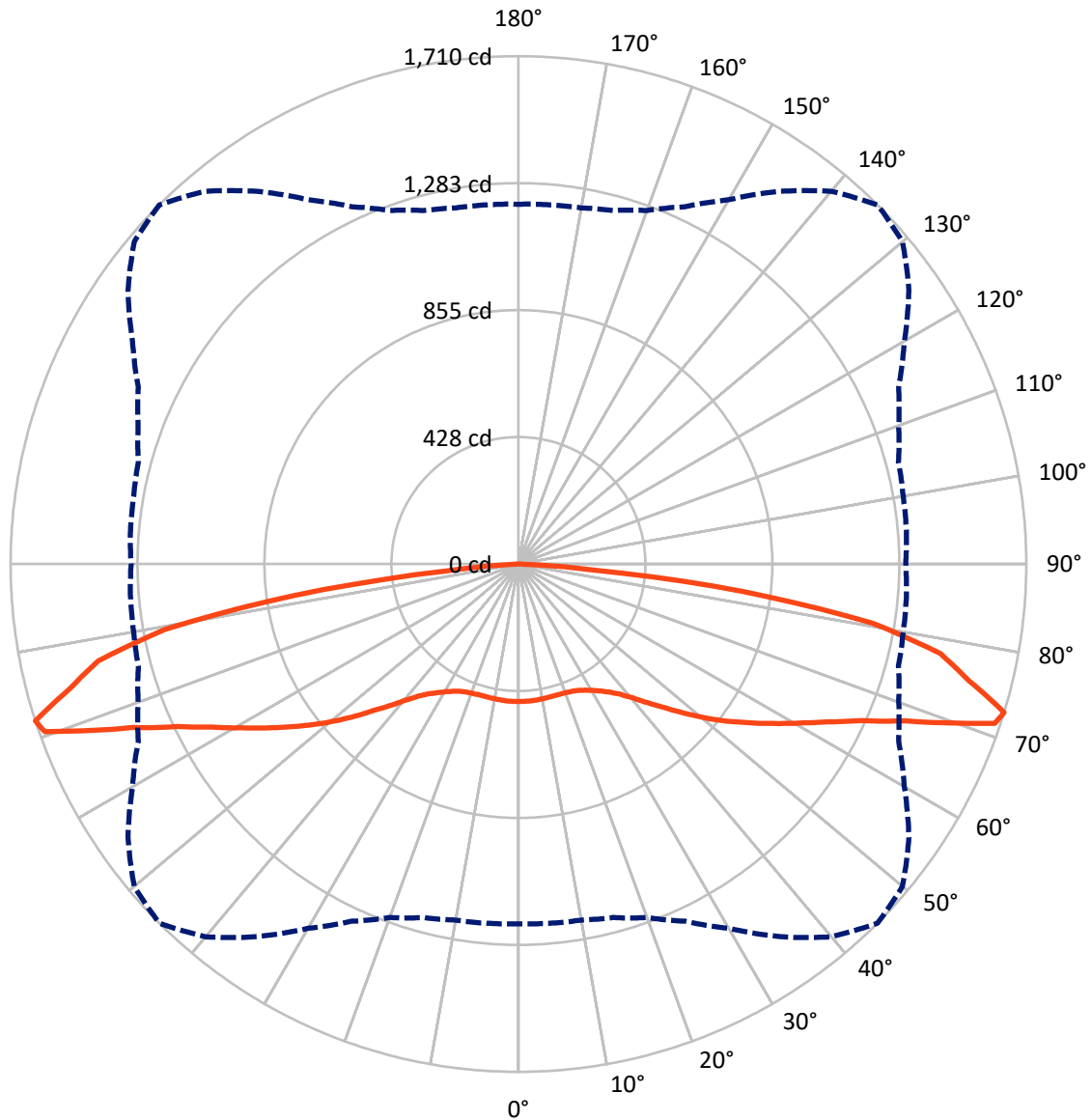
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P180173
CATALOG NUMBER: ICM-F02-LED-E1-5XQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P180173

CATALOG NUMBER: ICM-F02-LED-E1-5XQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2442.3	0.0	2442.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2442.3	0.0	2442.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4884.7	0.0	4884.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	0.9
10°-20°	130.5	2.7
20°-30°	218.5	4.5
30°-40°	333.1	6.8
40°-50°	531.9	10.9
50°-60°	817.8	16.7
60°-70°	1190.7	24.4
70°-80°	1341.3	27.5
80°-90°	276.9	5.7
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°	4884.7	100.0
0°-180°	4884.7	100.0



REPORT NUMBER: P180173

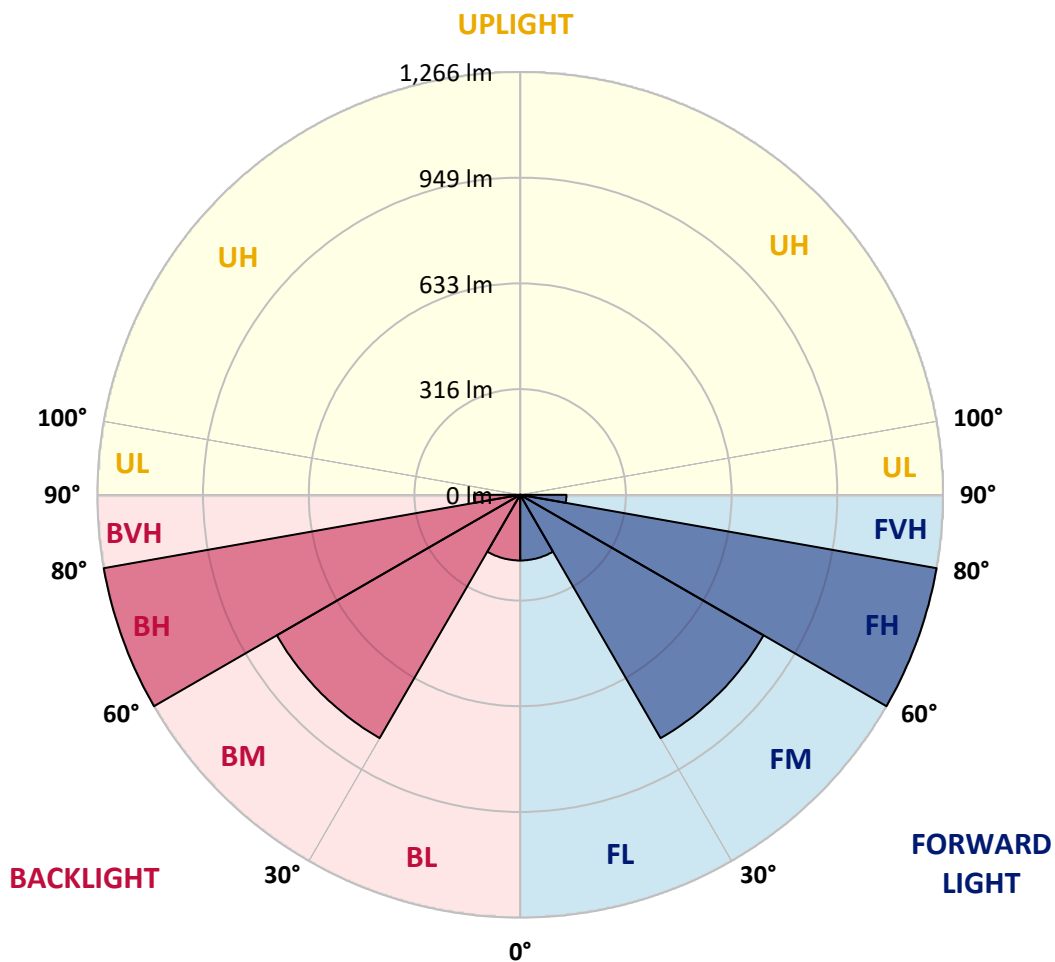
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.5	4.0			
FM (30°-60°)	841.4	17.2			
FH (60°-80°)	1266.0	25.9			G1/1800
FVH (80°-90°)	138.4	2.8			G2/225
BL (0°-30°)	196.5	4.0	B1/500		
BM (30°-60°)	841.4	17.2	B1/1000		
BH (60°-80°)	1266.0	25.9	B3/2500		G1/1800
BVH (80°-90°)	138.4	2.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P180173

CATALOG NUMBER: ICM-F02-LED-E1-5XQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8
2.5°	463.6	463.8	463.7	463.4	463.5	463.4	463.2	463.1	462.1	462.7	463.4
5°	463.6	463.4	463.2	463.1	463.1	463.4	463.1	462.7	462.5	462.8	462.4
7.5°	463.3	462.9	462.6	462.4	462.5	462.7	462.3	461.8	462.1	461.8	461.3
10°	462.5	462.1	462.3	461.8	462.0	461.8	461.3	460.8	461.2	460.7	460.1
12.5°	462.8	462.1	462.0	461.8	461.7	461.5	460.8	460.3	460.4	460.1	459.4
15°	462.8	462.4	462.3	461.8	461.7	461.4	460.7	460.4	460.4	460.0	459.3
17.5°	463.1	462.8	462.8	462.1	462.0	461.8	460.9	460.5	460.9	460.1	459.6
20°	463.8	463.6	463.7	463.4	462.8	462.9	462.1	462.0	462.0	462.0	460.5
22.5°	465.4	465.4	465.7	465.5	465.4	465.5	465.0	465.0	465.1	465.1	464.0
25°	469.8	469.6	469.9	469.9	470.0	470.9	470.5	470.3	471.0	471.0	469.9
27.5°	478.0	477.7	478.0	478.1	478.8	480.0	479.7	480.1	481.1	480.8	479.8
30°	487.4	487.2	487.8	488.6	489.0	490.8	490.0	492.0	492.8	493.7	492.8
32.5°	501.2	501.2	502.3	502.9	504.0	505.8	506.0	507.6	508.7	510.0	509.1
35°	519.6	519.4	520.3	521.1	522.6	524.3	524.8	526.9	528.7	529.7	528.0
37.5°	547.8	546.3	548.1	548.6	549.8	550.0	551.8	554.4	556.4	556.1	555.0
40°	585.9	585.7	585.0	584.3	586.1	586.7	586.7	590.1	593.2	592.7	592.6
42.5°	630.5	629.4	628.6	628.6	629.6	629.9	633.8	636.4	638.5	639.0	638.5
45°	678.3	677.2	677.4	676.9	677.3	679.0	681.3	686.1	690.1	690.2	688.1
47.5°	729.9	726.2	729.0	725.0	727.4	728.7	734.5	741.5	748.7	749.9	748.0
50°	782.1	781.6	781.4	780.7	781.8	784.6	791.6	802.5	809.4	814.1	811.0
52.5°	839.1	837.2	836.3	835.0	836.2	841.7	851.5	861.0	873.4	878.6	874.4
55°	894.7	894.1	890.7	890.6	893.0	901.6	912.3	923.9	937.4	943.3	941.8
57.5°	951.7	948.0	947.0	945.5	950.3	958.3	971.5	992.6	1006.5	1013.2	1009.3
60°	1007.4	1004.7	1002.5	1002.1	1005.4	1016.6	1035.5	1060.8	1078.1	1086.8	1080.6
62.5°	1067.4	1065.6	1063.1	1060.1	1067.2	1081.7	1105.2	1133.1	1158.5	1169.3	1160.0
65°	1142.0	1138.2	1135.4	1131.6	1137.4	1155.6	1185.1	1224.5	1258.6	1271.2	1264.6
67.5°	1220.6	1217.0	1217.3	1215.0	1225.2	1250.4	1288.6	1342.0	1387.7	1409.1	1396.7
70°	1289.1	1291.1	1291.5	1300.8	1318.5	1356.9	1420.5	1504.0	1573.5	1606.1	1592.7
71°	1268.9	1273.1	1279.6	1289.3	1319.8	1365.2	1451.9	1553.1	1636.1	1691.4	1672.8
72.5°	1211.5	1214.1	1217.4	1232.3	1266.7	1326.9	1416.1	1531.7	1638.4	1710.0	1688.4
75°	1128.6	1131.1	1132.2	1142.5	1174.0	1226.4	1308.1	1410.7	1504.8	1565.7	1559.6
77.5°	1003.4	1003.8	1012.8	1028.8	1064.0	1124.0	1210.1	1316.5	1404.9	1452.3	1422.2
80°	720.6	715.7	724.9	745.5	789.0	857.9	946.0	1067.5	1165.8	1210.1	1163.4
82.5°	274.1	289.0	312.4	346.5	361.2	437.8	519.9	591.4	674.1	766.3	743.3
85°	29.4	33.1	41.6	51.5	65.1	90.0	124.5	170.0	209.5	246.2	218.6
87.5°	11.0	11.3	12.6	14.5	14.7	15.3	16.4	19.1	17.9	15.3	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180173

CATALOG NUMBER: ICM-F02-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8
2.5°	462.8	462.9	462.8	463.0	463.0	462.4	462.6	462.3
5°	462.7	462.3	462.4	462.5	462.4	462.7	462.3	462.5
7.5°	462.0	461.3	461.6	461.6	461.3	461.7	461.4	461.3
10°	460.7	459.7	460.3	460.0	459.9	460.0	460.0	460.0
12.5°	459.6	459.0	459.2	459.0	458.9	459.3	459.2	459.2
15°	459.4	458.3	458.2	458.0	458.0	458.3	458.3	458.8
17.5°	459.2	457.9	457.7	457.5	457.6	458.0	458.2	458.0
20°	459.9	458.9	458.6	458.3	458.2	458.9	458.7	458.8
22.5°	463.4	462.1	462.0	461.0	460.7	461.0	460.7	460.7
25°	469.2	467.6	467.2	465.8	464.7	464.7	464.4	464.1
27.5°	479.6	477.2	476.7	475.6	474.2	474.4	473.7	473.5
30°	491.5	489.5	487.7	486.1	484.5	483.8	482.9	482.8
32.5°	507.4	505.0	502.9	500.8	498.5	497.7	496.0	495.3
35°	526.7	523.6	521.0	519.6	517.3	516.2	515.2	516.3
37.5°	553.7	550.0	548.7	547.0	545.5	543.7	544.1	543.7
40°	591.1	587.7	586.4	583.4	583.1	581.1	582.3	581.0
42.5°	637.2	631.1	630.2	627.9	627.2	626.1	626.5	625.7
45°	687.5	682.1	681.0	677.3	677.4	674.7	675.7	675.7
47.5°	744.2	738.4	733.7	731.0	730.0	728.3	729.1	729.0
50°	802.5	794.7	789.4	784.2	781.9	782.5	780.7	783.8
52.5°	865.2	853.6	846.1	841.1	836.8	837.7	838.0	838.9
55°	930.1	915.3	904.6	898.1	894.1	894.2	895.4	896.4
57.5°	995.4	976.8	962.2	952.5	950.0	951.1	951.1	950.9
60°	1063.1	1040.8	1022.0	1011.0	1008.8	1008.0	1013.0	1011.4
62.5°	1135.8	1109.0	1089.5	1075.4	1072.2	1074.4	1079.0	1078.0
65°	1232.2	1195.2	1170.1	1156.1	1150.5	1152.8	1158.8	1158.5
67.5°	1356.5	1304.8	1271.5	1253.7	1249.6	1252.4	1255.7	1258.9
70°	1542.2	1468.5	1421.0	1382.3	1365.6	1362.4	1365.8	1366.0
71°	1607.6	1522.8	1447.5	1400.1	1372.8	1361.3	1362.2	1356.5
72.5°	1605.0	1500.5	1412.3	1362.7	1324.8	1315.6	1311.1	1304.2
75°	1496.8	1402.6	1326.1	1272.1	1235.6	1224.8	1216.8	1216.4
77.5°	1357.5	1287.9	1203.6	1146.4	1102.0	1083.9	1075.9	1075.6
80°	1091.3	987.2	925.5	891.1	837.4	822.0	805.6	799.4
82.5°	659.9	515.7	419.4	372.6	346.7	285.6	256.3	242.4
85°	153.7	109.2	75.3	49.4	35.5	28.3	21.8	19.2
87.5°	10.3	8.2	7.3	5.9	4.5	4.4	2.7	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)