

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: P140594

Luminaire Tested: **ECM-F02-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140594  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-F02-LED-E1-5XQ-7030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4496.1 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

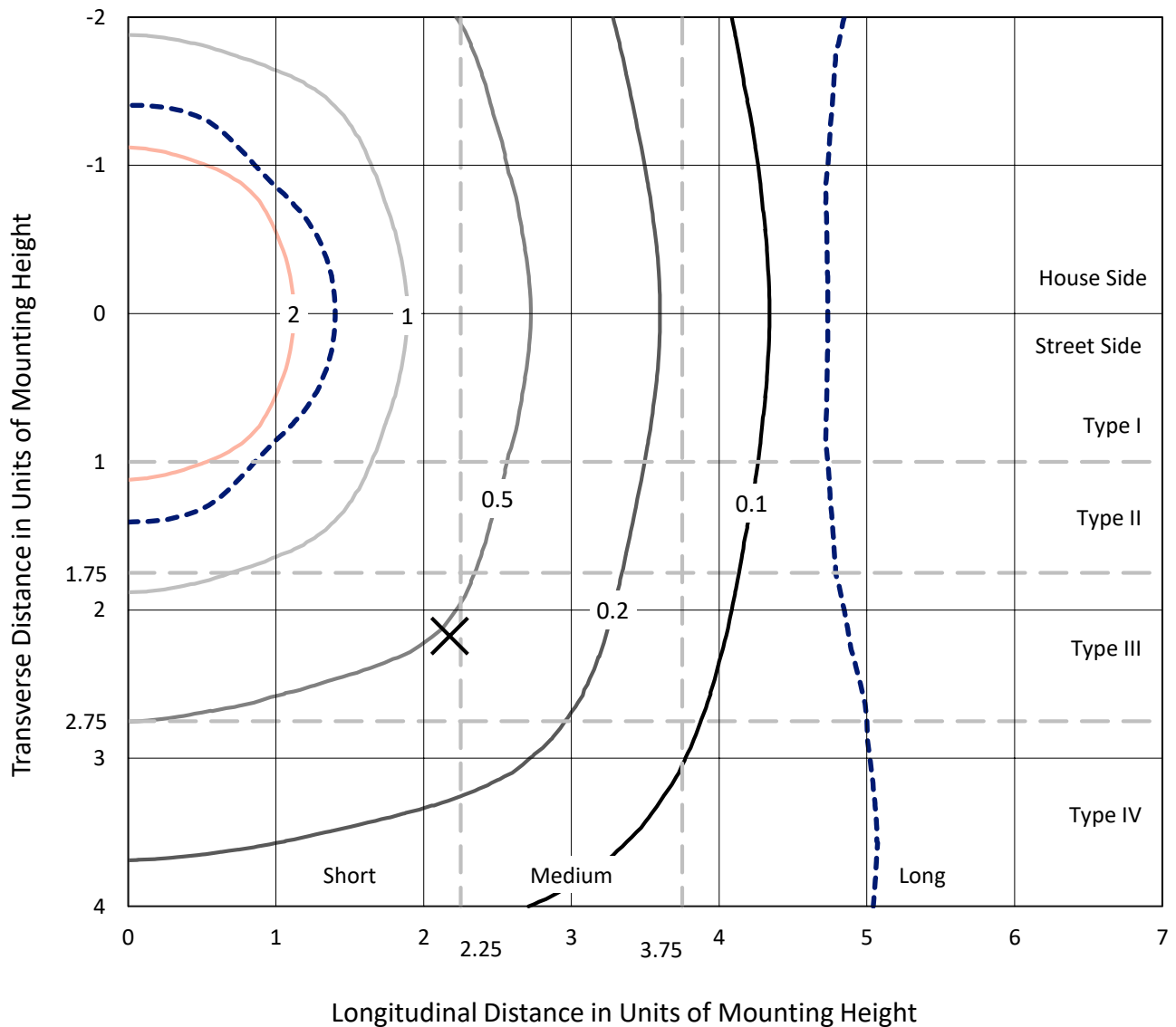
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

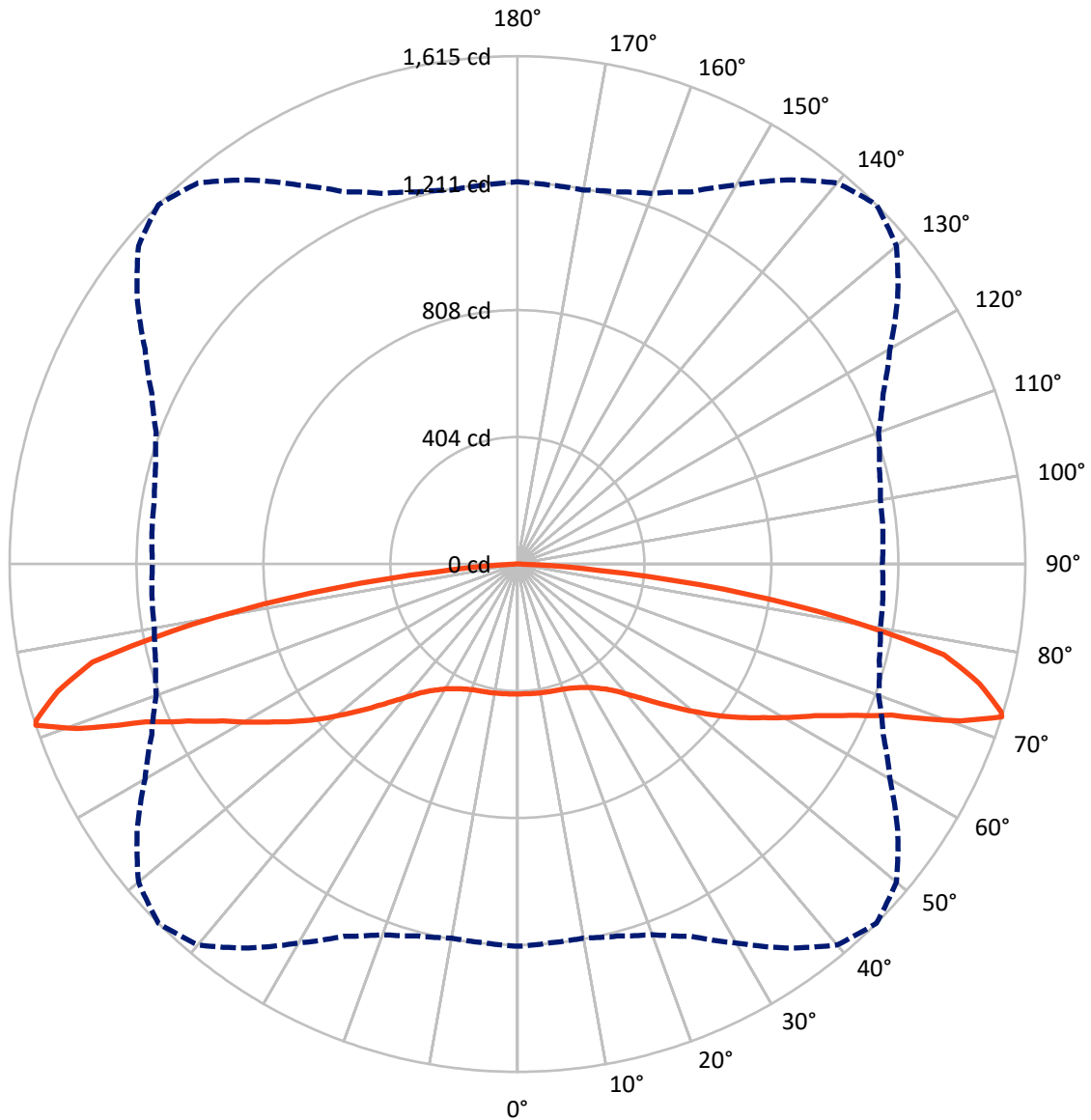
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2248.0	0.0	2248.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2248.0	0.0	2248.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4496.1	0.0	4496.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	0.9
10°-20°	119.3	2.7
20°-30°	201.8	4.5
30°-40°	307.1	6.8
40°-50°	486.1	10.8
50°-60°	745.0	16.6
60°-70°	1093.7	24.3
70°-80°	1240.7	27.6
80°-90°	262.8	5.8
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°	4496.1	100.0
0°-180°	4496.1	100.0



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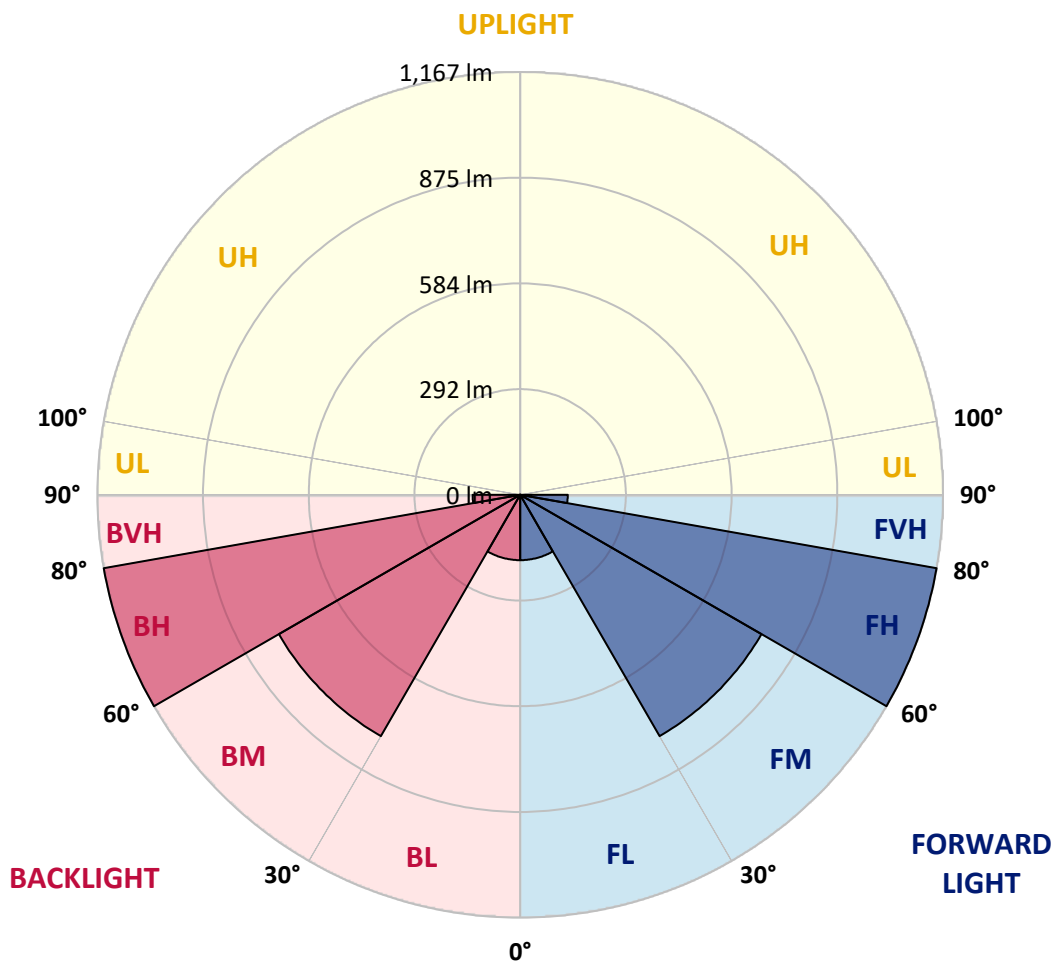
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.4	4.0			
FM (30°-60°)	769.1	17.1			
FH (60°-80°)	1167.2	26.0			G1/1800
FVH (80°-90°)	131.4	2.9			G2/225
BL (0°-30°)	180.4	4.0	B1/500		
BM (30°-60°)	769.1	17.1	B1/1000		
BH (60°-80°)	1167.2	26.0	B3/2500		G1/1800
BVH (80°-90°)	131.4	2.9			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	414.7	415.2	414.7	414.2	414.2	413.7	413.7	413.7	414.2	413.2	413.2
5°	415.7	416.2	415.7	414.7	414.7	414.7	414.2	414.2	414.7	414.2	414.2
7.5°	417.2	417.7	417.2	416.2	416.2	415.7	415.2	415.2	416.2	415.2	415.2
10°	418.7	419.7	418.7	417.7	417.7	417.2	416.7	416.7	417.2	416.2	416.2
12.5°	421.2	421.2	420.7	420.2	420.2	419.7	419.2	418.7	418.2	417.7	417.2
15°	423.2	423.7	422.7	422.2	421.7	421.2	420.7	420.7	419.7	419.2	419.2
17.5°	425.8	426.3	425.3	424.2	424.2	423.2	422.7	422.7	421.7	421.2	420.7
20°	428.3	428.8	427.8	427.3	426.8	426.3	425.3	425.8	425.3	424.2	424.2
22.5°	431.3	431.3	430.8	430.3	430.3	429.8	429.3	430.3	429.3	429.3	428.8
25°	434.3	434.8	434.3	434.3	434.8	434.8	435.3	436.3	436.3	435.8	435.3
27.5°	440.8	440.8	440.8	440.8	442.3	442.3	442.8	444.4	444.9	444.9	444.9
30°	449.4	449.9	449.4	449.4	450.9	451.4	452.9	454.4	455.4	455.4	455.9
32.5°	461.9	461.4	461.9	463.0	464.0	465.0	466.5	469.0	470.5	471.0	471.0
35°	478.0	478.5	478.0	478.5	480.5	482.1	483.6	486.6	487.6	488.6	489.1
37.5°	501.7	503.2	502.2	502.2	504.7	505.7	507.7	510.2	512.2	513.2	512.7
40°	535.8	535.3	534.3	534.8	535.3	536.3	538.4	543.4	545.9	545.9	545.9
42.5°	575.0	575.5	574.0	573.5	574.0	575.0	578.1	582.1	586.1	585.1	585.6
45°	619.8	616.3	617.3	616.3	616.8	620.3	625.3	627.3	631.3	631.3	632.3
47.5°	663.5	662.0	661.5	661.0	662.5	666.0	672.1	678.6	682.1	684.1	685.6
50°	712.8	710.3	709.8	710.3	710.8	711.8	723.3	729.9	738.4	739.9	739.4
52.5°	760.5	758.5	757.5	757.5	759.5	763.0	775.1	785.7	795.2	801.2	798.7
55°	812.3	812.3	809.3	808.3	811.3	814.8	831.4	843.5	857.0	861.6	854.5
57.5°	865.6	865.1	860.6	859.0	861.6	870.6	884.7	903.3	917.9	921.9	917.9
60°	917.9	917.9	915.3	914.3	916.9	927.9	945.0	965.6	983.2	990.7	984.2
62.5°	977.7	977.7	971.1	974.2	977.7	986.2	1007.8	1034.5	1058.1	1062.1	1056.1
65°	1045.5	1048.6	1043.5	1042.5	1047.0	1063.1	1087.8	1121.4	1149.1	1159.6	1150.6
67.5°	1149.1	1144.6	1138.5	1136.0	1143.1	1158.1	1188.3	1232.5	1273.2	1283.3	1272.7
70°	1256.7	1252.1	1250.1	1258.2	1273.2	1304.9	1351.2	1413.0	1469.8	1493.9	1471.8
72°	1215.4	1209.4	1207.9	1225.0	1254.1	1305.9	1391.4	1490.9	1581.4	1615.1	1573.3
72.5°	1194.3	1189.3	1188.8	1204.9	1236.5	1288.8	1372.8	1475.3	1572.3	1609.0	1564.3
75°	1108.9	1103.8	1108.9	1127.0	1158.6	1214.9	1300.4	1396.4	1483.9	1517.5	1473.8
77.5°	990.7	981.7	986.2	1011.4	1046.5	1107.9	1198.3	1311.9	1396.4	1387.3	1322.5
80°	790.7	770.6	792.2	799.7	839.9	881.2	968.6	1019.4	1048.6	1050.1	1003.8
82.5°	345.3	353.4	380.5	403.1	431.8	479.5	514.7	569.5	633.4	663.0	627.3
85°	22.6	28.1	44.7	53.3	73.9	90.0	129.2	188.0	226.7	259.4	218.7
87.5°	4.0	5.5	10.1	12.1	13.1	14.6	14.6	20.1	21.1	17.1	19.1
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°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	413.2	413.2	413.7	413.2	413.2	413.2	412.7	412.7
5°	413.7	413.7	414.2	414.2	413.7	413.7	413.7	413.7
7.5°	415.2	414.7	415.2	415.2	414.7	414.7	414.2	414.7
10°	415.7	415.7	416.2	416.2	415.7	415.7	415.7	415.7
12.5°	417.2	417.2	417.2	417.7	417.2	417.2	417.7	417.2
15°	418.7	418.2	418.2	418.2	418.2	418.7	418.7	419.2
17.5°	420.2	420.2	419.7	420.2	420.2	420.7	420.7	420.7
20°	423.2	422.7	421.7	422.7	422.7	422.7	422.7	423.2
22.5°	427.8	426.8	425.8	425.8	425.3	425.8	425.3	425.3
25°	434.3	432.8	431.3	430.8	430.3	429.8	429.3	429.8
27.5°	443.9	441.8	439.8	438.8	438.3	437.3	436.8	436.8
30°	454.4	452.9	449.9	448.9	447.4	445.9	445.9	445.4
32.5°	470.5	468.5	465.0	463.5	460.9	459.4	458.9	458.9
35°	487.1	484.6	483.1	481.0	478.0	476.5	476.0	476.0
37.5°	512.2	509.2	507.2	504.7	504.2	502.2	502.2	502.2
40°	544.9	542.4	539.9	537.8	536.3	534.8	532.8	532.8
42.5°	585.1	581.1	579.6	577.1	575.0	573.5	572.5	572.5
45°	629.3	625.8	623.8	620.3	619.8	618.8	616.8	616.8
47.5°	679.1	674.1	670.0	669.0	666.5	664.0	663.0	663.5
50°	733.4	724.8	719.3	719.3	716.3	712.8	713.3	712.8
52.5°	789.2	779.6	772.6	767.6	764.0	763.5	764.0	763.5
55°	845.5	835.4	826.9	821.4	817.8	814.3	813.8	813.8
57.5°	903.8	891.2	877.6	872.6	869.1	867.1	867.1	867.6
60°	969.6	949.0	931.9	925.4	922.9	923.9	923.4	923.9
62.5°	1036.5	1012.9	992.8	985.2	981.7	981.2	985.2	986.7
65°	1120.9	1091.8	1069.2	1055.1	1055.1	1053.6	1058.1	1056.1
67.5°	1231.0	1189.8	1162.2	1139.5	1140.0	1141.5	1148.1	1147.6
70°	1418.5	1345.6	1294.4	1255.7	1240.6	1230.5	1228.5	1228.5
72°	1476.3	1367.7	1283.3	1222.5	1191.3	1172.2	1166.7	1160.6
72.5°	1461.2	1349.6	1264.2	1200.9	1168.7	1149.6	1141.0	1133.5
75°	1366.2	1241.6	1148.6	1082.2	1046.5	1023.4	1018.9	1015.4
77.5°	1205.4	1094.8	998.8	929.9	894.2	864.6	852.5	851.5
80°	929.4	829.9	756.0	702.2	670.0	647.9	648.9	641.9
82.5°	548.4	464.5	401.1	329.2	282.0	254.8	237.8	235.7
85°	161.4	109.6	69.9	50.3	36.2	27.1	20.1	18.1
87.5°	14.6	11.6	9.6	8.0	7.5	6.5	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)