

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: P180171

Luminaire Tested: **ICM-F02-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180171  
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-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4122.6 lumens  
Efficiency: N/A  
Efficacy: 75.0 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

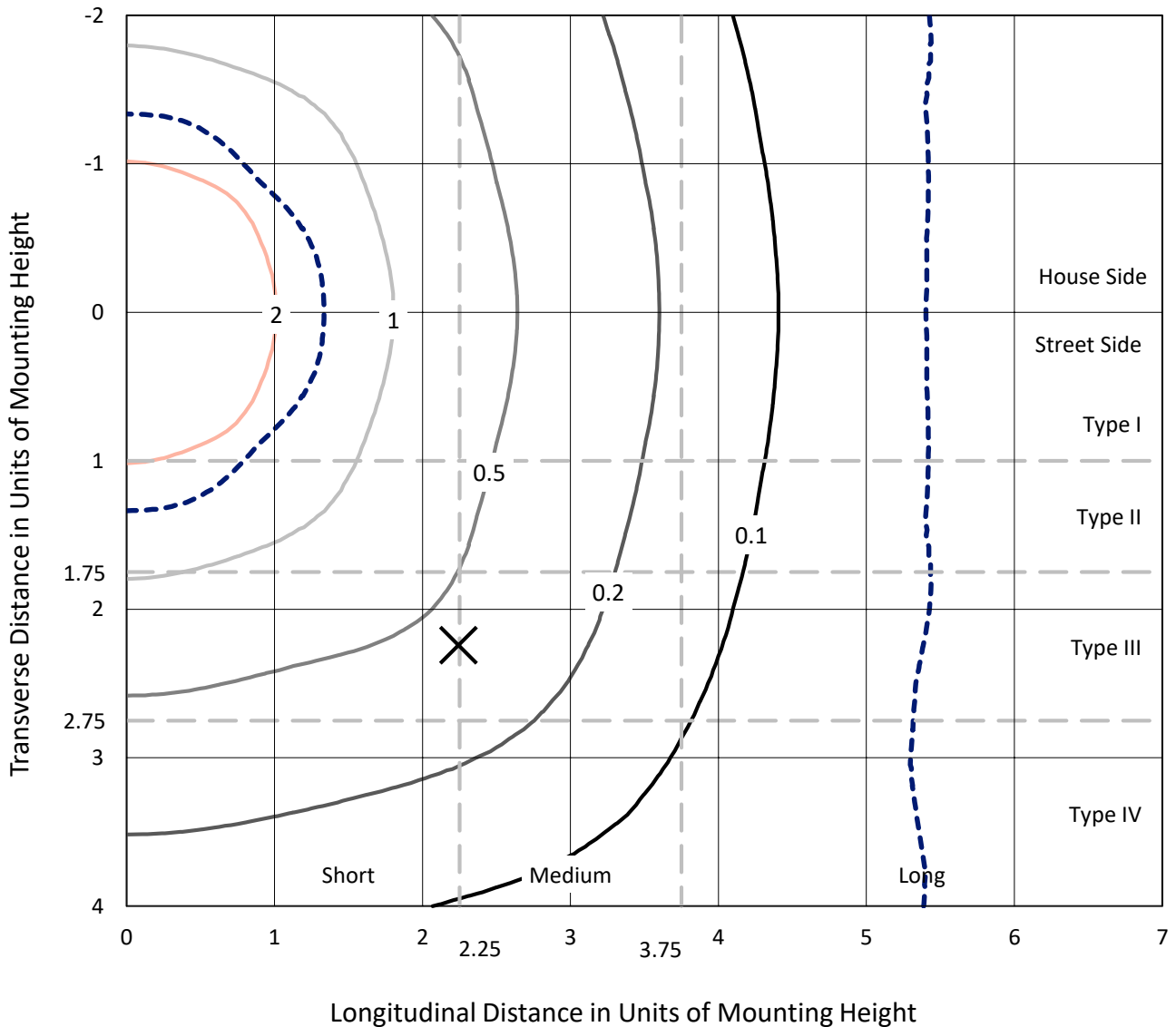
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

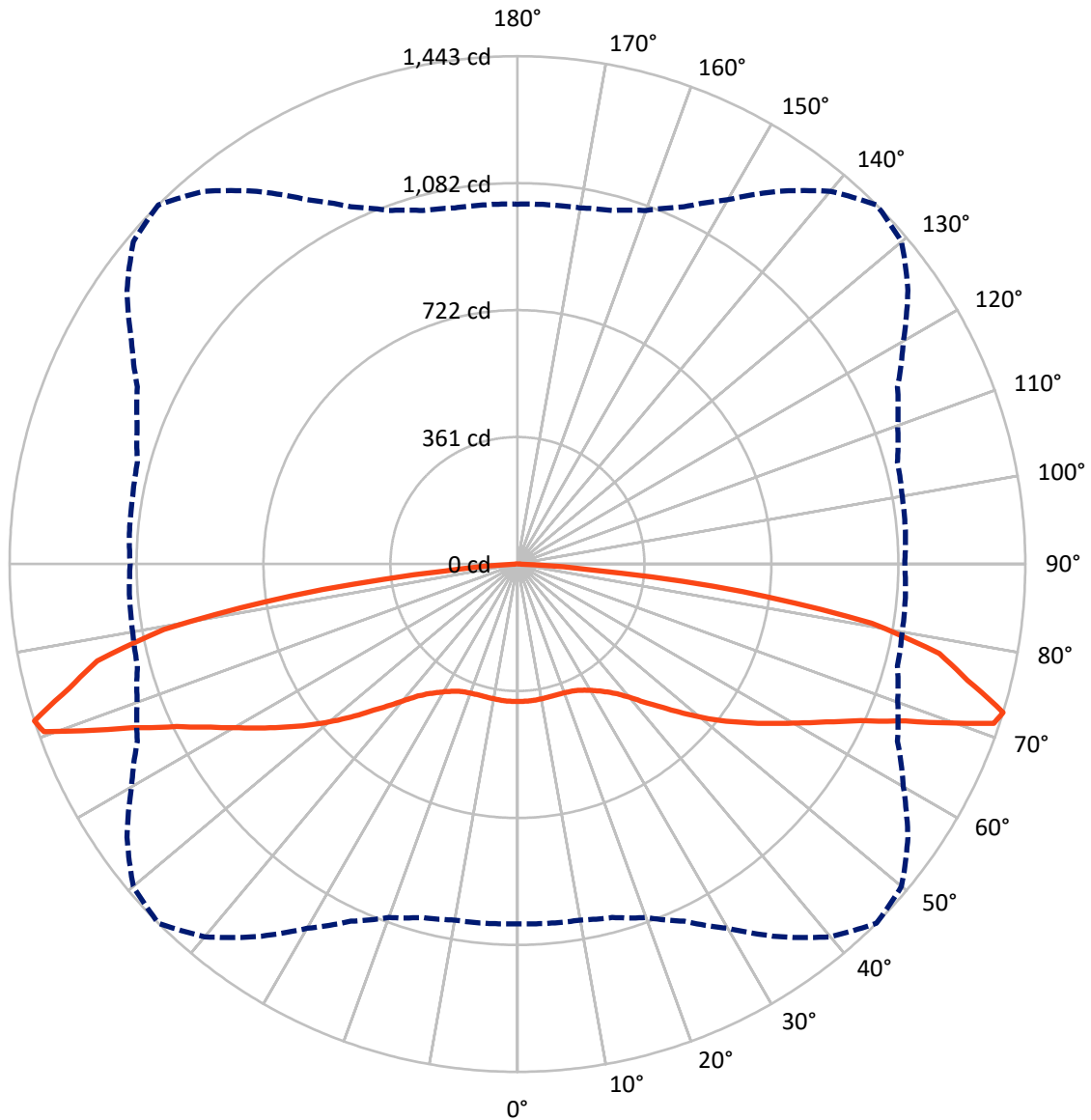
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2061.3	0.0	2061.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2061.3	0.0	2061.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4122.6	0.0	4122.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.2	0.9
10°-20°	110.1	2.7
20°-30°	184.4	4.5
30°-40°	281.1	6.8
40°-50°	448.9	10.9
50°-60°	690.2	16.7
60°-70°	1004.9	24.4
70°-80°	1132.0	27.5
80°-90°	233.7	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°	4122.6	100.0
0°-180°	4122.6	100.0



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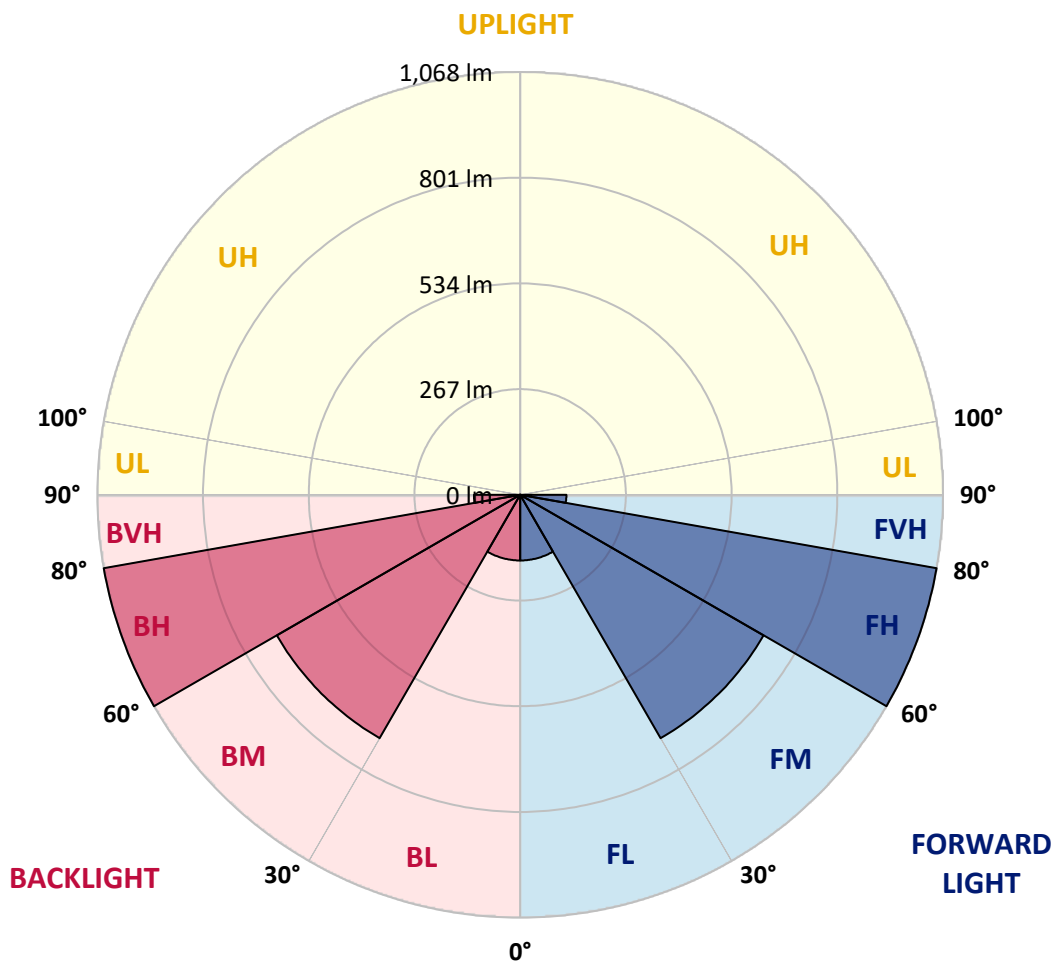
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.9	4.0			
FM (30°-60°)	710.1	17.2			
FH (60°-80°)	1068.5	25.9			G1/1800
FVH (80°-90°)	116.8	2.8			G2/225
BL (0°-30°)	165.9	4.0	B1/500		
BM (30°-60°)	710.1	17.2	B1/1000		
BH (60°-80°)	1068.5	25.9	B3/2500		G1/1800
BVH (80°-90°)	116.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6
2.5°	391.3	391.4	391.4	391.2	391.3	391.2	390.9	390.9	390.1	390.5	391.2
5°	391.3	391.1	391.0	390.9	390.8	391.1	390.8	390.5	390.3	390.6	390.3
7.5°	391.1	390.6	390.3	390.3	390.4	390.5	390.1	389.8	390.0	389.8	389.3
10°	390.4	390.0	390.1	389.8	389.9	389.8	389.3	389.0	389.2	388.8	388.3
12.5°	390.6	390.0	390.0	389.8	389.7	389.6	389.0	388.5	388.6	388.3	387.8
15°	390.6	390.3	390.1	389.8	389.7	389.4	388.7	388.6	388.6	388.2	387.5
17.5°	390.8	390.6	390.6	390.0	389.9	389.8	389.0	388.7	389.0	388.3	387.9
20°	391.4	391.3	391.4	391.1	390.6	390.6	390.0	389.9	390.0	389.9	388.7
22.5°	392.7	392.7	392.9	392.9	392.7	392.9	392.5	392.5	392.6	392.6	391.6
25°	396.5	396.3	396.6	396.6	396.7	397.4	397.1	397.0	397.5	397.6	396.6
27.5°	403.4	403.2	403.4	403.5	404.1	405.1	404.8	405.2	406.0	405.9	404.9
30°	411.4	411.2	411.6	412.3	412.7	414.3	413.6	415.3	416.0	416.7	416.0
32.5°	423.1	423.1	424.0	424.4	425.4	426.9	427.2	428.4	429.4	430.5	429.8
35°	438.5	438.3	439.1	439.9	441.0	442.4	443.0	444.7	446.2	447.0	445.6
37.5°	462.3	461.2	462.5	463.0	464.0	464.3	465.8	467.9	469.6	469.4	468.4
40°	494.5	494.3	493.8	493.1	494.6	495.2	495.2	498.0	500.7	500.3	500.2
42.5°	532.1	531.2	530.5	530.5	531.4	531.5	534.9	537.0	539.0	539.4	538.9
45°	572.5	571.5	571.7	571.4	571.6	573.0	575.0	579.0	582.4	582.5	580.7
47.5°	616.0	612.9	615.3	611.9	614.0	615.1	619.9	625.8	631.8	632.9	631.3
50°	660.1	659.7	659.5	658.8	659.8	662.1	668.1	677.3	683.2	687.1	684.5
52.5°	708.2	706.6	705.9	704.7	705.7	710.3	718.7	726.7	737.1	741.6	738.0
55°	755.1	754.5	751.7	751.6	753.7	760.9	770.0	779.8	791.2	796.1	794.8
57.5°	803.2	800.1	799.3	798.0	802.1	808.8	820.0	837.7	849.5	855.1	851.8
60°	850.3	848.0	846.1	845.7	848.6	858.1	874.1	895.3	909.9	917.2	912.0
62.5°	900.8	899.4	897.2	894.7	900.7	912.9	932.7	956.3	977.8	986.9	979.0
65°	963.8	960.7	958.3	955.2	960.0	975.4	1000.3	1033.5	1062.3	1072.8	1067.3
67.5°	1030.1	1027.2	1027.4	1025.5	1034.1	1055.4	1087.5	1132.6	1171.3	1189.3	1178.7
70°	1088.0	1089.6	1090.1	1098.0	1112.8	1145.3	1198.8	1269.4	1328.0	1355.5	1344.2
71°	1070.9	1074.5	1080.0	1088.2	1113.9	1152.3	1225.4	1310.9	1380.8	1427.5	1411.9
72.5°	1022.5	1024.8	1027.5	1040.0	1069.1	1119.8	1195.2	1292.8	1382.8	1443.2	1425.0
75°	952.6	954.6	955.5	964.3	990.8	1035.1	1104.0	1190.6	1270.1	1321.4	1316.4
77.5°	846.9	847.2	854.8	868.3	898.0	948.7	1021.2	1111.1	1185.8	1225.7	1200.4
80°	608.2	604.1	611.8	629.2	666.0	724.0	798.4	901.0	983.8	1021.3	982.0
82.5°	231.4	243.9	263.7	292.4	304.8	369.4	438.8	499.1	568.8	646.9	627.3
85°	24.8	27.9	35.1	43.5	55.0	76.1	105.1	143.4	176.8	207.8	184.5
87.5°	9.3	9.5	10.6	12.2	12.5	13.0	13.9	16.1	15.1	12.9	10.4
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°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6
2.5°	390.6	390.7	390.6	390.7	390.7	390.3	390.4	390.1
5°	390.5	390.1	390.2	390.3	390.2	390.5	390.1	390.3
7.5°	390.0	389.3	389.5	389.5	389.3	389.7	389.4	389.3
10°	388.8	388.1	388.5	388.3	388.1	388.2	388.3	388.3
12.5°	387.9	387.4	387.5	387.4	387.3	387.5	387.4	387.5
15°	387.7	386.8	386.7	386.5	386.6	386.8	386.8	387.2
17.5°	387.5	386.4	386.2	386.0	386.2	386.6	386.7	386.4
20°	388.1	387.3	387.1	386.8	386.7	387.3	387.2	387.2
22.5°	391.2	390.0	390.0	389.1	388.7	389.1	388.9	388.8
25°	396.0	394.7	394.3	393.1	392.2	392.2	391.9	391.6
27.5°	404.8	402.8	402.4	401.4	400.2	400.4	399.8	399.6
30°	414.9	413.2	411.6	410.3	408.8	408.4	407.5	407.4
32.5°	428.2	426.2	424.4	422.7	420.7	420.0	418.7	418.0
35°	444.5	441.9	439.7	438.5	436.7	435.6	434.8	435.7
37.5°	467.3	464.2	463.1	461.7	460.4	458.9	459.2	458.9
40°	498.8	496.0	495.0	492.5	492.1	490.4	491.5	490.4
42.5°	537.9	532.7	531.9	530.0	529.3	528.4	528.7	528.0
45°	580.3	575.6	574.8	571.6	571.8	569.5	570.3	570.4
47.5°	628.0	623.2	619.2	616.9	616.0	614.6	615.4	615.3
50°	677.3	670.7	666.2	661.9	659.9	660.5	658.9	661.5
52.5°	730.2	720.4	714.1	709.9	706.2	707.0	707.2	707.9
55°	785.0	772.5	763.4	757.9	754.5	754.8	755.7	756.6
57.5°	840.1	824.4	812.1	803.9	801.7	802.7	802.7	802.6
60°	897.2	878.4	862.5	853.2	851.4	850.8	855.0	853.6
62.5°	958.5	936.0	919.5	907.7	904.9	906.8	910.7	909.8
65°	1039.9	1008.8	987.5	975.8	971.0	972.9	978.1	977.9
67.5°	1144.8	1101.2	1073.2	1058.1	1054.6	1056.9	1059.8	1062.5
70°	1301.7	1239.3	1199.4	1166.6	1152.6	1149.9	1152.7	1152.8
71°	1356.8	1285.2	1221.6	1181.6	1158.6	1148.9	1149.7	1144.8
72.5°	1354.6	1266.3	1191.9	1150.1	1118.1	1110.3	1106.6	1100.7
75°	1263.3	1183.8	1119.3	1073.6	1042.8	1033.7	1027.0	1026.6
77.5°	1145.7	1087.1	1015.8	967.5	930.1	914.8	908.0	907.8
80°	920.9	833.1	781.1	752.0	706.8	693.7	679.9	674.7
82.5°	556.9	435.2	353.9	314.4	292.7	241.0	216.2	204.7
85°	129.8	92.2	63.5	41.7	30.0	23.9	18.3	16.2
87.5°	8.7	6.9	6.1	5.0	3.8	3.7	2.2	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)