

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: P140593

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140593
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-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE 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: 4154.7 lumens
Efficiency: N/A
Efficacy: 75.5 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

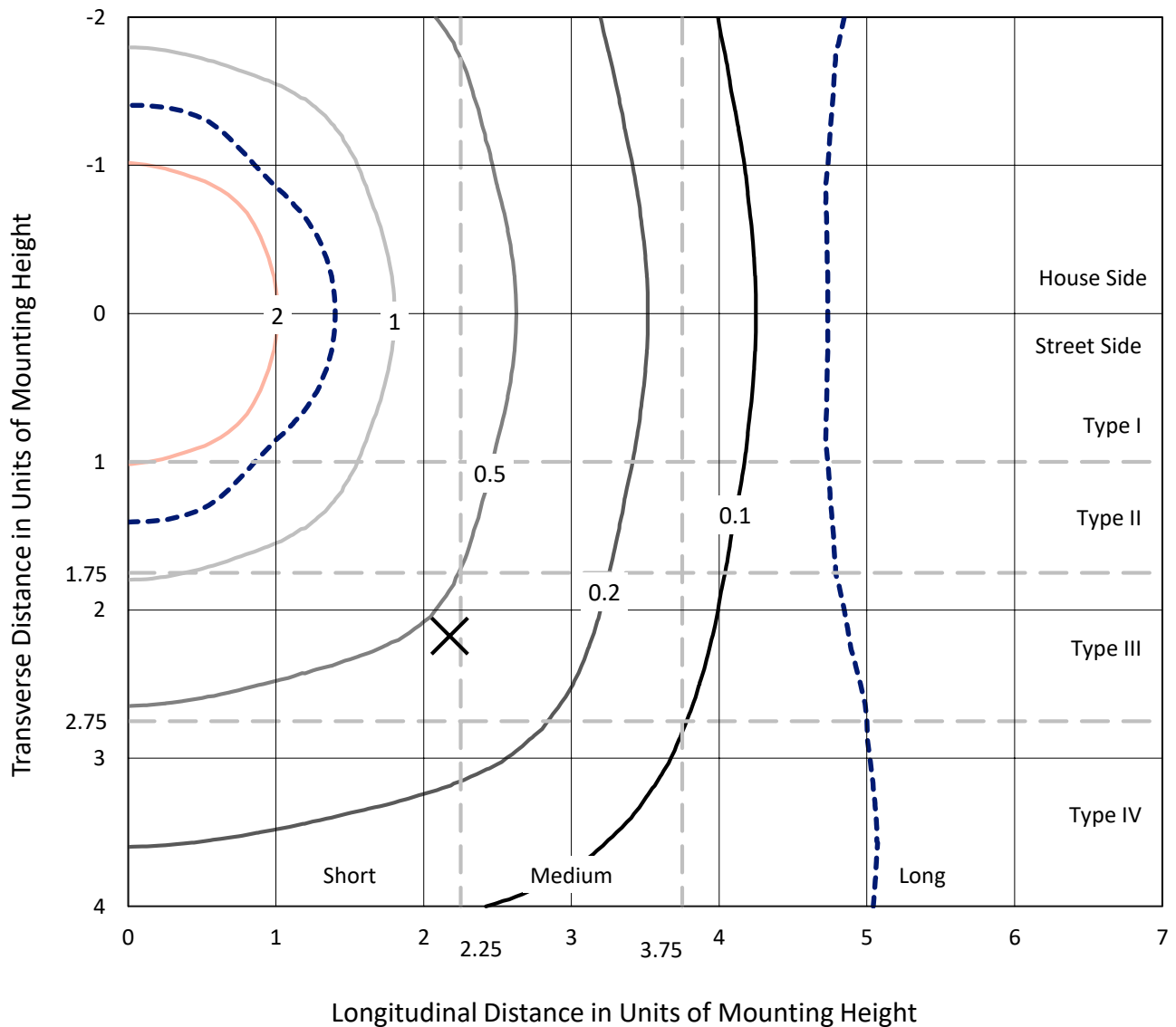
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

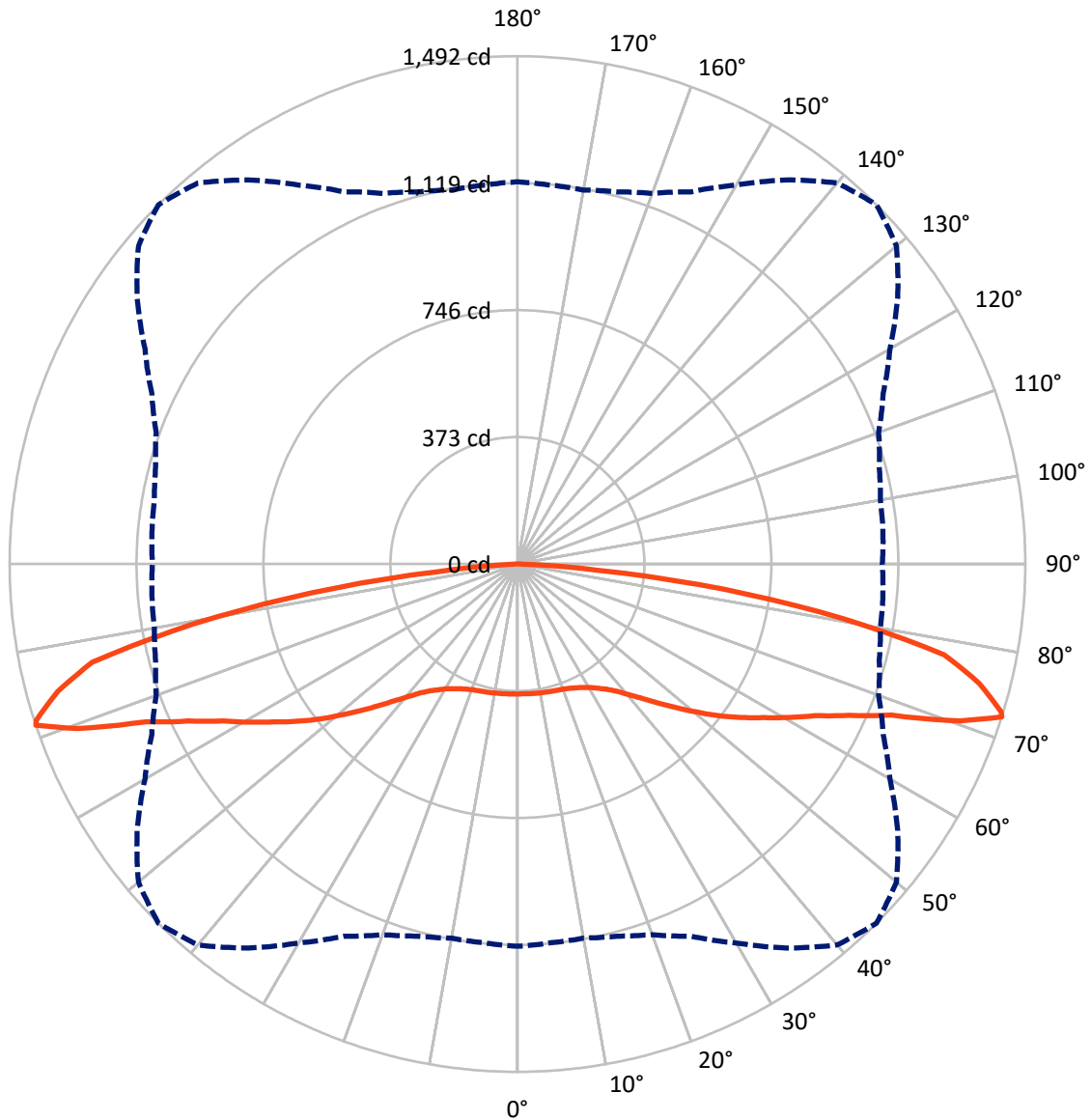
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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
House Side	Lumens	2077.3	0.0	2077.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2077.3	0.0	2077.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4154.7	0.0	4154.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	0.9
10°-20°	110.2	2.7
20°-30°	186.5	4.5
30°-40°	283.7	6.8
40°-50°	449.2	10.8
50°-60°	688.4	16.6
60°-70°	1010.7	24.3
70°-80°	1146.5	27.6
80°-90°	242.9	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°	4154.7	100.0
0°-180°	4154.7	100.0



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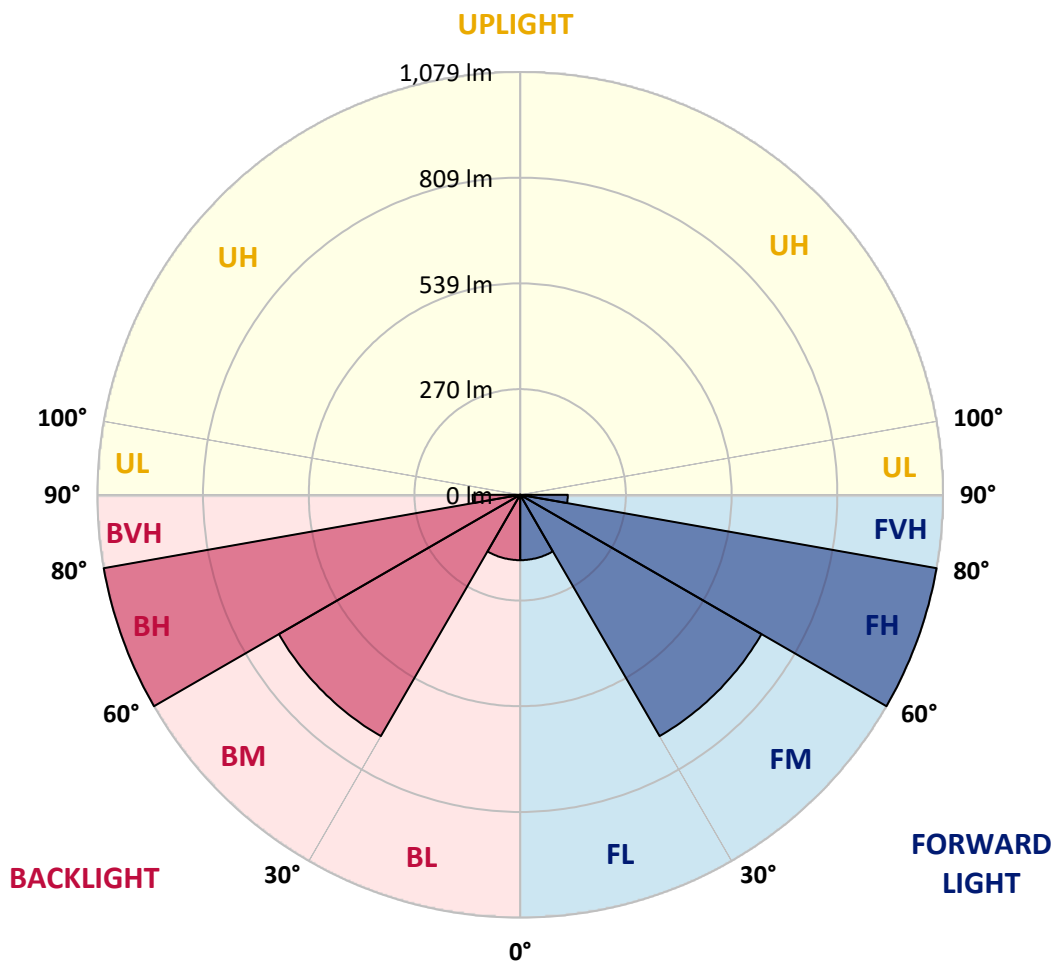
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	166.7	4.0			
FM	(30°-60°)	710.7	17.1			
FH	(60°-80°)	1078.6	26.0			G1/1800
FVH	(80°-90°)	121.4	2.9			G2/225
BL	(0°-30°)	166.7	4.0	B1/500		
BM	(30°-60°)	710.7	17.1	B1/1000		
BH	(60°-80°)	1078.6	26.0	B3/2500		G1/1800
BVH	(80°-90°)	121.4	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°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8
2.5°	383.2	383.7	383.2	382.7	382.7	382.3	382.3	382.3	382.7	381.8	381.8
5°	384.1	384.6	384.1	383.2	383.2	383.2	382.7	382.7	383.2	382.7	382.7
7.5°	385.5	386.0	385.5	384.6	384.6	384.1	383.7	383.7	384.6	383.7	383.7
10°	386.9	387.8	386.9	386.0	386.0	385.5	385.1	385.1	385.5	384.6	384.6
12.5°	389.2	389.2	388.8	388.3	388.3	387.8	387.4	386.9	386.5	386.0	385.5
15°	391.1	391.6	390.6	390.2	389.7	389.2	388.8	388.8	387.8	387.4	387.4
17.5°	393.4	393.9	393.0	392.0	392.0	391.1	390.6	390.6	389.7	389.2	388.8
20°	395.7	396.2	395.3	394.8	394.4	393.9	393.0	393.4	393.0	392.0	392.0
22.5°	398.5	398.5	398.1	397.6	397.6	397.1	396.7	397.6	396.7	396.7	396.2
25°	401.3	401.8	401.3	401.3	401.8	401.8	402.2	403.2	403.2	402.7	402.2
27.5°	407.4	407.4	407.4	407.4	408.8	408.8	409.2	410.6	411.1	411.1	411.1
30°	415.3	415.7	415.3	415.3	416.6	417.1	418.5	419.9	420.8	420.8	421.3
32.5°	426.9	426.4	426.9	427.8	428.7	429.7	431.0	433.4	434.8	435.2	435.2
35°	441.7	442.2	441.7	442.2	444.1	445.4	446.8	449.6	450.6	451.5	451.9
37.5°	463.6	465.0	464.0	464.0	466.3	467.3	469.1	471.5	473.3	474.2	473.8
40°	495.1	494.7	493.8	494.2	494.7	495.6	497.5	502.1	504.4	504.4	504.4
42.5°	531.4	531.8	530.4	530.0	530.4	531.4	534.2	537.9	541.6	540.7	541.1
45°	572.7	569.5	570.4	569.5	569.9	573.2	577.8	579.7	583.4	583.4	584.3
47.5°	613.1	611.7	611.3	610.8	612.2	615.4	621.0	627.1	630.3	632.2	633.6
50°	658.6	656.3	655.9	656.3	656.8	657.7	668.4	674.4	682.3	683.7	683.3
52.5°	702.8	700.9	700.0	700.0	701.8	705.1	716.2	726.0	734.8	740.4	738.1
55°	750.6	750.6	747.8	746.9	749.7	752.9	768.3	779.4	792.0	796.1	789.6
57.5°	799.9	799.4	795.2	793.8	796.1	804.5	817.5	834.7	848.2	851.9	848.2
60°	848.2	848.2	845.8	844.9	847.2	857.4	873.2	892.3	908.5	915.5	909.5
62.5°	903.4	903.4	897.4	900.2	903.4	911.3	931.3	955.9	977.8	981.5	975.9
65°	966.1	968.9	964.3	963.4	967.5	982.4	1005.2	1036.3	1061.8	1071.6	1063.2
67.5°	1061.8	1057.6	1052.1	1049.7	1056.3	1070.2	1098.1	1138.9	1176.6	1185.8	1176.1
70°	1161.2	1157.0	1155.2	1162.6	1176.6	1205.8	1248.6	1305.7	1358.2	1380.5	1360.0
72°	1123.1	1117.6	1116.2	1132.0	1158.9	1206.7	1285.7	1377.7	1461.3	1492.4	1453.9
72.5°	1103.6	1099.0	1098.5	1113.4	1142.6	1191.0	1268.5	1363.3	1452.9	1486.8	1445.5
75°	1024.7	1020.0	1024.7	1041.4	1070.7	1122.7	1201.6	1290.4	1371.2	1402.3	1361.9
77.5°	915.5	907.1	911.3	934.6	967.1	1023.7	1107.3	1212.3	1290.4	1282.0	1222.1
80°	730.6	712.1	732.0	739.0	776.2	814.3	895.1	942.0	968.9	970.3	927.6
82.5°	319.1	326.5	351.6	372.5	399.0	443.1	475.6	526.3	585.3	612.7	579.7
85°	20.9	26.0	41.3	49.2	68.3	83.1	119.4	173.7	209.5	239.7	202.1
87.5°	3.7	5.1	9.3	11.1	12.1	13.5	13.5	18.6	19.5	15.8	17.7
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°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8
2.5°	381.8	381.8	382.3	381.8	381.8	381.8	381.3	381.3
5°	382.3	382.3	382.7	382.7	382.3	382.3	382.3	382.3
7.5°	383.7	383.2	383.7	383.7	383.2	383.2	382.7	383.2
10°	384.1	384.1	384.6	384.6	384.1	384.1	384.1	384.1
12.5°	385.5	385.5	385.5	386.0	385.5	385.5	386.0	385.5
15°	386.9	386.5	386.5	386.5	386.5	386.9	386.9	387.4
17.5°	388.3	388.3	387.8	388.3	388.3	388.8	388.8	388.8
20°	391.1	390.6	389.7	390.6	390.6	390.6	390.6	391.1
22.5°	395.3	394.4	393.4	393.4	393.0	393.4	393.0	393.0
25°	401.3	399.9	398.5	398.1	397.6	397.1	396.7	397.1
27.5°	410.1	408.3	406.4	405.5	405.0	404.1	403.6	403.6
30°	419.9	418.5	415.7	414.8	413.4	412.0	412.0	411.5
32.5°	434.8	432.9	429.7	428.3	425.9	424.5	424.1	424.1
35°	450.1	447.8	446.4	444.5	441.7	440.3	439.9	439.9
37.5°	473.3	470.5	468.7	466.3	465.9	464.0	464.0	464.0
40°	503.5	501.2	498.9	497.0	495.6	494.2	492.4	492.4
42.5°	540.7	537.0	535.6	533.2	531.4	530.0	529.1	529.1
45°	581.5	578.3	576.4	573.2	572.7	571.8	569.9	569.9
47.5°	627.5	622.9	619.2	618.2	615.9	613.6	612.7	613.1
50°	677.7	669.8	664.7	664.7	661.9	658.6	659.1	658.6
52.5°	729.2	720.4	713.9	709.3	706.0	705.6	706.0	705.6
55°	781.3	772.0	764.1	759.0	755.7	752.5	752.0	752.0
57.5°	835.2	823.5	811.0	806.4	803.1	801.2	801.2	801.7
60°	896.0	877.0	861.2	855.1	852.8	853.7	853.3	853.7
62.5°	957.8	935.9	917.4	910.4	907.1	906.7	910.4	911.8
65°	1035.8	1008.9	988.0	975.0	975.0	973.6	977.8	975.9
67.5°	1137.5	1099.4	1073.9	1053.0	1053.5	1054.9	1060.9	1060.4
70°	1310.8	1243.4	1196.1	1160.3	1146.4	1137.1	1135.2	1135.2
72°	1364.2	1263.9	1185.8	1129.6	1100.8	1083.2	1078.1	1072.5
72.5°	1350.3	1247.2	1168.2	1109.7	1079.9	1062.3	1054.4	1047.4
75°	1262.5	1147.3	1061.4	1000.0	967.1	945.7	941.5	938.3
77.5°	1113.8	1011.7	922.9	859.3	826.3	798.9	787.8	786.8
80°	858.8	766.9	698.6	648.9	619.2	598.7	599.7	593.2
82.5°	506.8	429.2	370.7	304.2	260.6	235.5	219.7	217.8
85°	149.1	101.3	64.6	46.4	33.4	25.1	18.6	16.7
87.5°	13.5	10.7	8.8	7.4	7.0	6.0	3.7	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)