

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: P180172

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180172
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-7030
Description: ICON SITE MEDIUM 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: 4461.4 lumens
Efficiency: N/A
Efficacy: 81.1 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

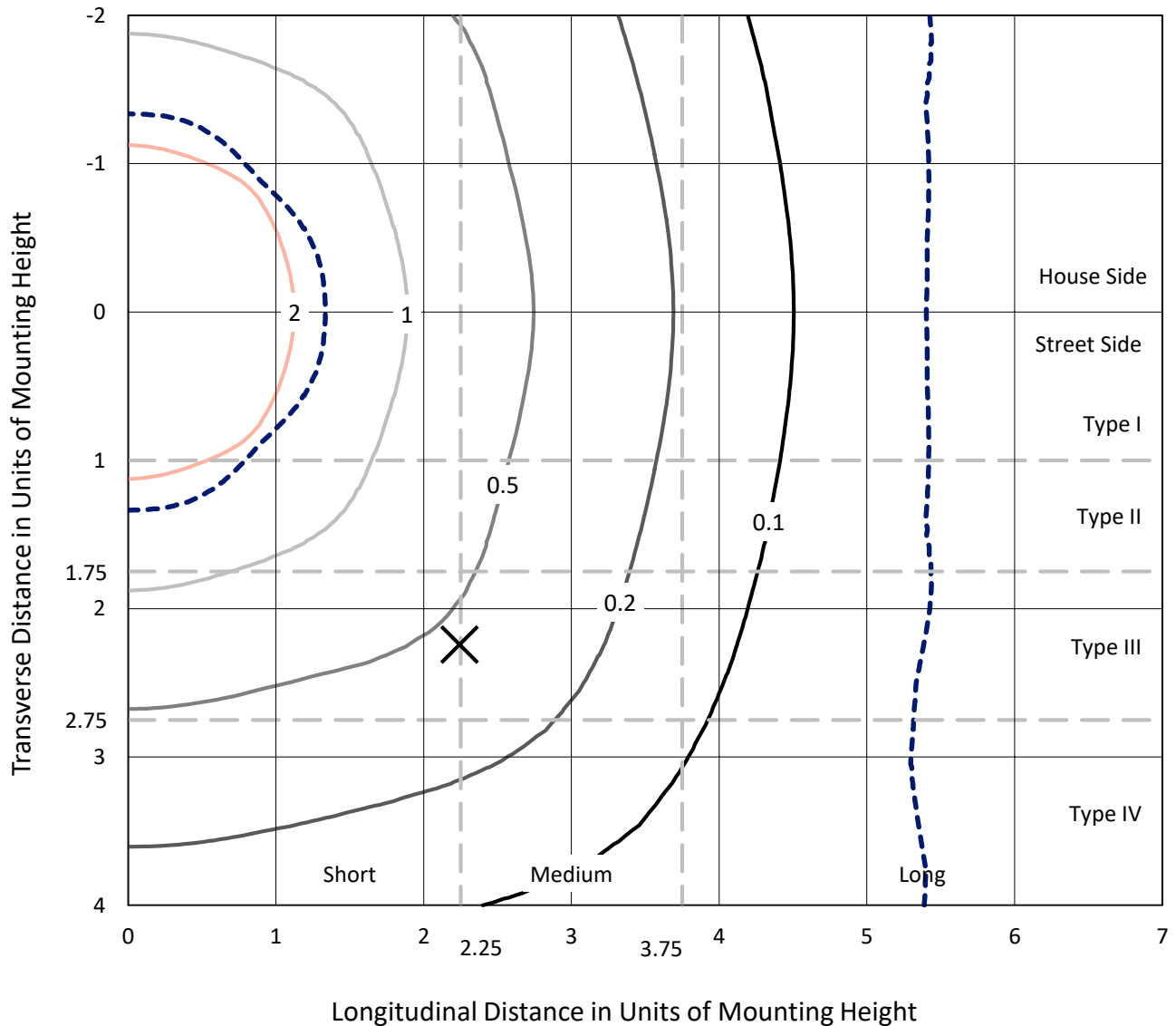
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

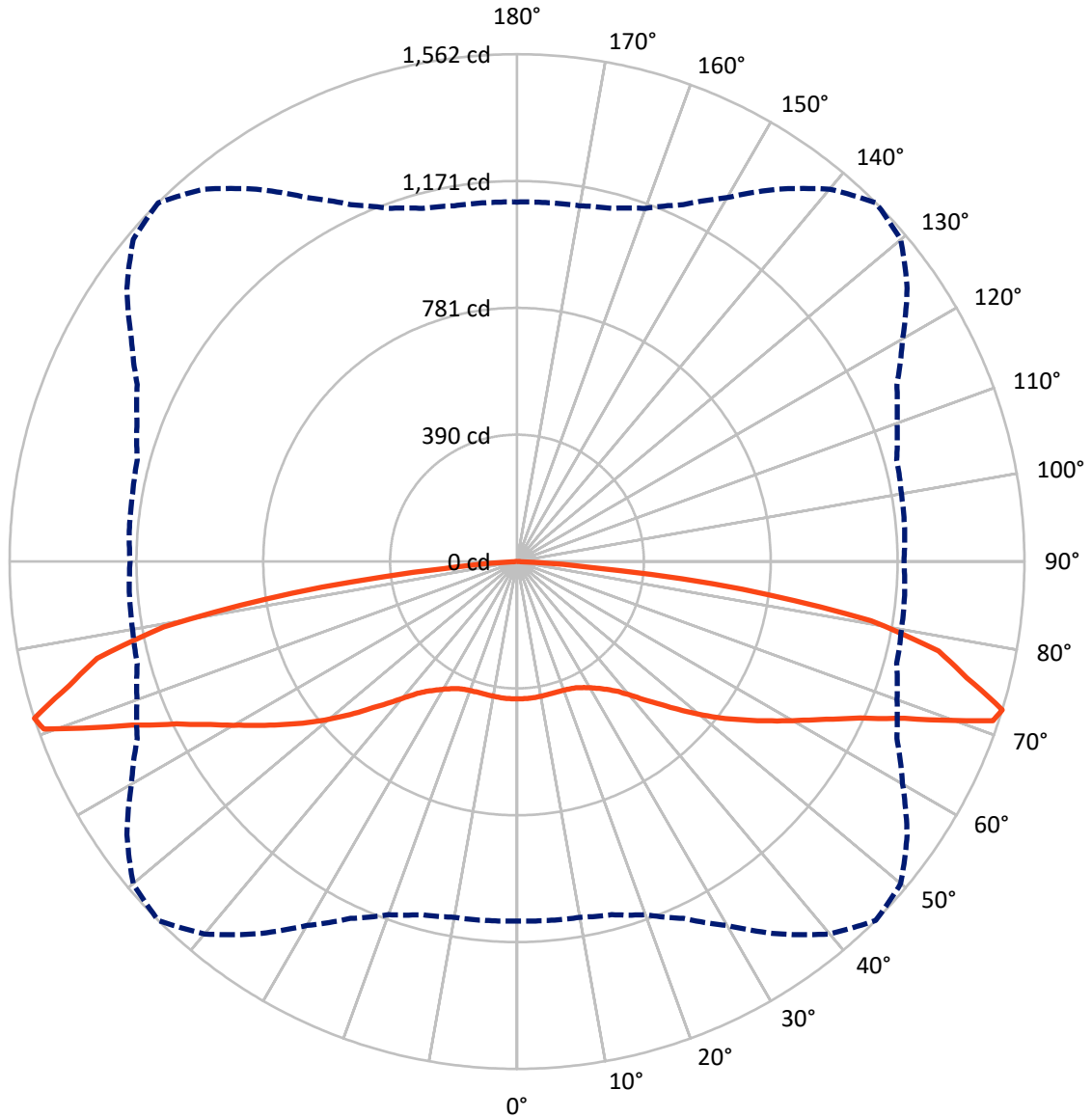
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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
House Side	Lumens	2230.7	0.0	2230.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2230.7	0.0	2230.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4461.4	0.0	4461.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	0.9
10°-20°	119.2	2.7
20°-30°	199.5	4.5
30°-40°	304.2	6.8
40°-50°	485.8	10.9
50°-60°	746.9	16.7
60°-70°	1087.5	24.4
70°-80°	1225.1	27.5
80°-90°	252.9	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°	4461.4	100.0
0°-180°	4461.4	100.0



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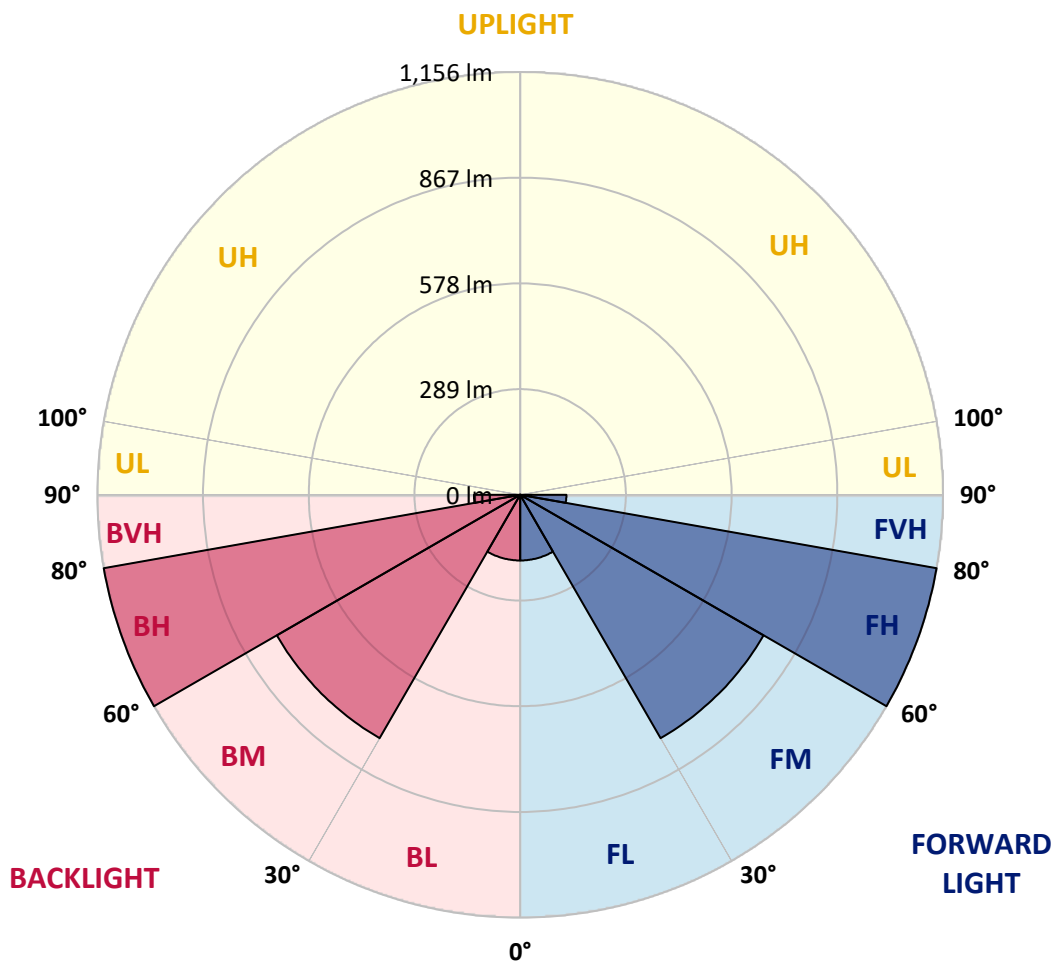
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.5	4.0			
FM (30°-60°)	768.5	17.2			
FH (60°-80°)	1156.3	25.9			G1/1800
FVH (80°-90°)	126.4	2.8			G2/225
BL (0°-30°)	179.5	4.0	B1/500		
BM (30°-60°)	768.5	17.2	B1/1000		
BH (60°-80°)	1156.3	25.9	B3/2500		G1/1800
BVH (80°-90°)	126.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	423.4	423.6	423.5	423.3	423.4	423.3	423.1	422.9	422.1	422.6	423.3
5°	423.4	423.2	423.1	422.9	422.9	423.3	422.9	422.6	422.5	422.7	422.3
7.5°	423.2	422.7	422.5	422.3	422.5	422.6	422.2	421.8	422.1	421.8	421.3
10°	422.5	422.1	422.2	421.8	421.9	421.8	421.3	420.9	421.2	420.8	420.3
12.5°	422.7	422.1	422.0	421.8	421.7	421.6	420.9	420.4	420.5	420.3	419.7
15°	422.7	422.3	422.2	421.8	421.7	421.4	420.7	420.5	420.5	420.1	419.4
17.5°	422.9	422.7	422.7	422.1	421.9	421.8	420.9	420.7	420.9	420.3	419.8
20°	423.6	423.4	423.5	423.2	422.7	422.7	422.1	421.9	422.0	421.9	420.7
22.5°	425.0	425.0	425.3	425.1	425.0	425.1	424.7	424.7	424.7	424.7	423.7
25°	429.0	428.9	429.1	429.1	429.2	430.0	429.8	429.6	430.1	430.1	429.1
27.5°	436.5	436.3	436.5	436.7	437.3	438.3	438.1	438.5	439.4	439.2	438.2
30°	445.2	444.9	445.5	446.2	446.7	448.3	447.6	449.3	450.1	450.9	450.1
32.5°	457.8	457.8	458.9	459.4	460.4	462.0	462.2	463.6	464.7	465.9	465.0
35°	474.6	474.4	475.2	476.0	477.3	478.9	479.4	481.3	482.9	483.7	482.2
37.5°	500.3	499.1	500.6	501.0	502.0	502.4	504.0	506.4	508.1	507.9	506.9
40°	535.2	534.9	534.3	533.7	535.3	535.8	535.8	539.0	541.8	541.4	541.2
42.5°	575.8	574.8	574.1	574.1	575.0	575.3	578.9	581.2	583.3	583.7	583.3
45°	619.5	618.5	618.8	618.2	618.6	620.2	622.2	626.6	630.3	630.4	628.5
47.5°	666.5	663.3	665.9	662.2	664.5	665.6	670.9	677.2	683.7	684.9	683.2
50°	714.2	713.9	713.7	712.9	714.1	716.6	723.0	732.9	739.3	743.4	740.7
52.5°	766.4	764.7	763.8	762.6	763.7	768.7	777.7	786.4	797.8	802.5	798.7
55°	817.1	816.6	813.5	813.4	815.6	823.4	833.2	843.9	856.2	861.6	860.1
57.5°	869.2	865.9	864.9	863.5	867.9	875.4	887.4	906.5	919.3	925.4	921.9
60°	920.2	917.7	915.6	915.2	918.2	928.6	945.9	968.8	984.7	992.6	987.0
62.5°	975.0	973.3	971.0	968.3	974.7	987.9	1009.4	1034.9	1058.1	1068.0	1059.4
65°	1043.0	1039.6	1037.0	1033.6	1038.9	1055.4	1082.5	1118.3	1149.6	1161.0	1155.0
67.5°	1114.8	1111.6	1111.8	1109.8	1119.1	1142.1	1176.9	1225.7	1267.5	1287.1	1275.5
70°	1177.5	1179.2	1179.6	1188.2	1204.3	1239.4	1297.3	1373.7	1437.1	1467.0	1454.7
71°	1158.9	1162.8	1168.8	1177.7	1205.5	1247.0	1326.1	1418.6	1494.3	1544.8	1527.8
72.5°	1106.6	1108.9	1112.0	1125.5	1156.9	1211.9	1293.4	1399.1	1496.4	1561.8	1542.1
75°	1030.8	1033.0	1034.1	1043.5	1072.2	1120.2	1194.7	1288.5	1374.3	1430.0	1424.6
77.5°	916.5	916.8	925.0	939.6	971.8	1026.6	1105.2	1202.4	1283.2	1326.4	1299.0
80°	658.1	653.7	662.1	680.9	720.7	783.5	864.0	975.1	1064.8	1105.2	1062.6
82.5°	250.4	264.0	285.4	316.5	329.9	399.8	474.8	540.1	615.6	700.0	678.8
85°	26.9	30.3	38.0	47.1	59.5	82.2	113.8	155.3	191.4	224.9	199.6
87.5°	10.0	10.2	11.4	13.2	13.4	14.0	15.0	17.4	16.3	14.0	11.3
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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	422.7	422.8	422.7	422.8	422.8	422.3	422.5	422.2
5°	422.6	422.2	422.3	422.5	422.3	422.6	422.2	422.5
7.5°	422.0	421.3	421.6	421.6	421.3	421.7	421.4	421.3
10°	420.8	419.9	420.4	420.1	420.0	420.1	420.1	420.1
12.5°	419.8	419.2	419.4	419.2	419.1	419.4	419.4	419.4
15°	419.5	418.6	418.5	418.2	418.4	418.6	418.6	419.0
17.5°	419.4	418.1	418.0	417.9	418.0	418.4	418.5	418.2
20°	420.0	419.1	418.9	418.6	418.5	419.1	419.0	419.0
22.5°	423.3	422.1	422.0	421.0	420.7	421.0	420.8	420.8
25°	428.6	427.2	426.7	425.4	424.5	424.5	424.1	423.8
27.5°	438.0	435.9	435.4	434.4	433.1	433.3	432.7	432.6
30°	449.0	447.1	445.5	444.0	442.4	441.9	441.1	440.9
32.5°	463.4	461.2	459.3	457.4	455.4	454.5	453.1	452.4
35°	481.0	478.2	475.9	474.6	472.5	471.4	470.5	471.6
37.5°	505.7	502.3	501.1	499.6	498.2	496.6	496.9	496.6
40°	539.8	536.8	535.6	532.9	532.6	530.7	531.9	530.7
42.5°	582.1	576.5	575.6	573.5	572.8	571.7	572.2	571.4
45°	628.0	623.0	622.1	618.6	618.7	616.3	617.2	617.2
47.5°	679.6	674.4	670.1	667.6	666.7	665.1	666.0	665.9
50°	732.9	725.9	721.0	716.3	714.1	714.7	713.1	715.9
52.5°	790.2	779.5	772.8	768.3	764.3	765.1	765.3	766.1
55°	849.5	835.9	826.1	820.2	816.6	816.7	817.9	818.8
57.5°	909.1	892.2	878.9	870.0	867.6	868.7	868.7	868.5
60°	971.0	950.6	933.4	923.4	921.3	920.7	925.2	923.7
62.5°	1037.4	1012.9	995.2	982.3	979.3	981.4	985.5	984.6
65°	1125.4	1091.5	1068.7	1056.0	1050.8	1052.9	1058.4	1058.1
67.5°	1238.9	1191.6	1161.4	1145.0	1141.3	1143.8	1146.9	1149.8
70°	1408.7	1341.2	1298.0	1262.5	1247.3	1244.4	1247.4	1247.5
71°	1468.4	1390.9	1322.1	1278.7	1253.9	1243.4	1244.2	1238.9
72.5°	1465.9	1370.4	1289.9	1244.7	1210.1	1201.6	1197.5	1191.2
75°	1367.2	1281.0	1211.2	1161.9	1128.6	1118.6	1111.4	1111.1
77.5°	1239.8	1176.4	1099.4	1047.1	1006.5	990.0	982.7	982.4
80°	996.7	901.6	845.3	813.9	764.8	750.7	735.8	730.1
82.5°	602.8	471.0	383.0	340.3	316.7	260.8	234.0	221.4
85°	140.4	99.7	68.7	45.1	32.5	25.9	19.9	17.5
87.5°	9.5	7.4	6.7	5.4	4.1	3.9	2.4	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)