

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: P140603

Luminaire Tested: **ECM-F03-LED-E1-5XQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140603
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-F03-LED-E1-5XQ-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6232 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

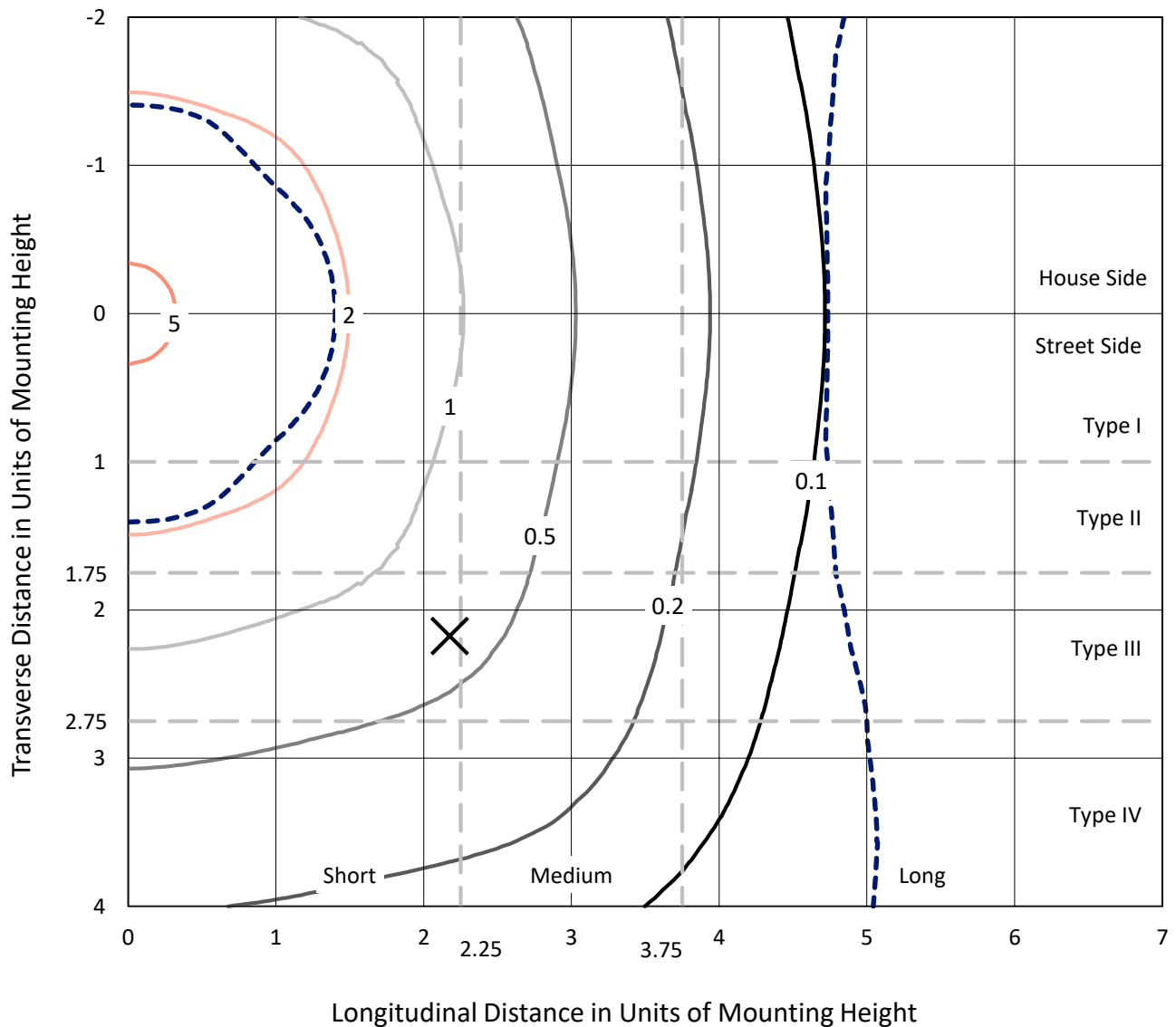
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

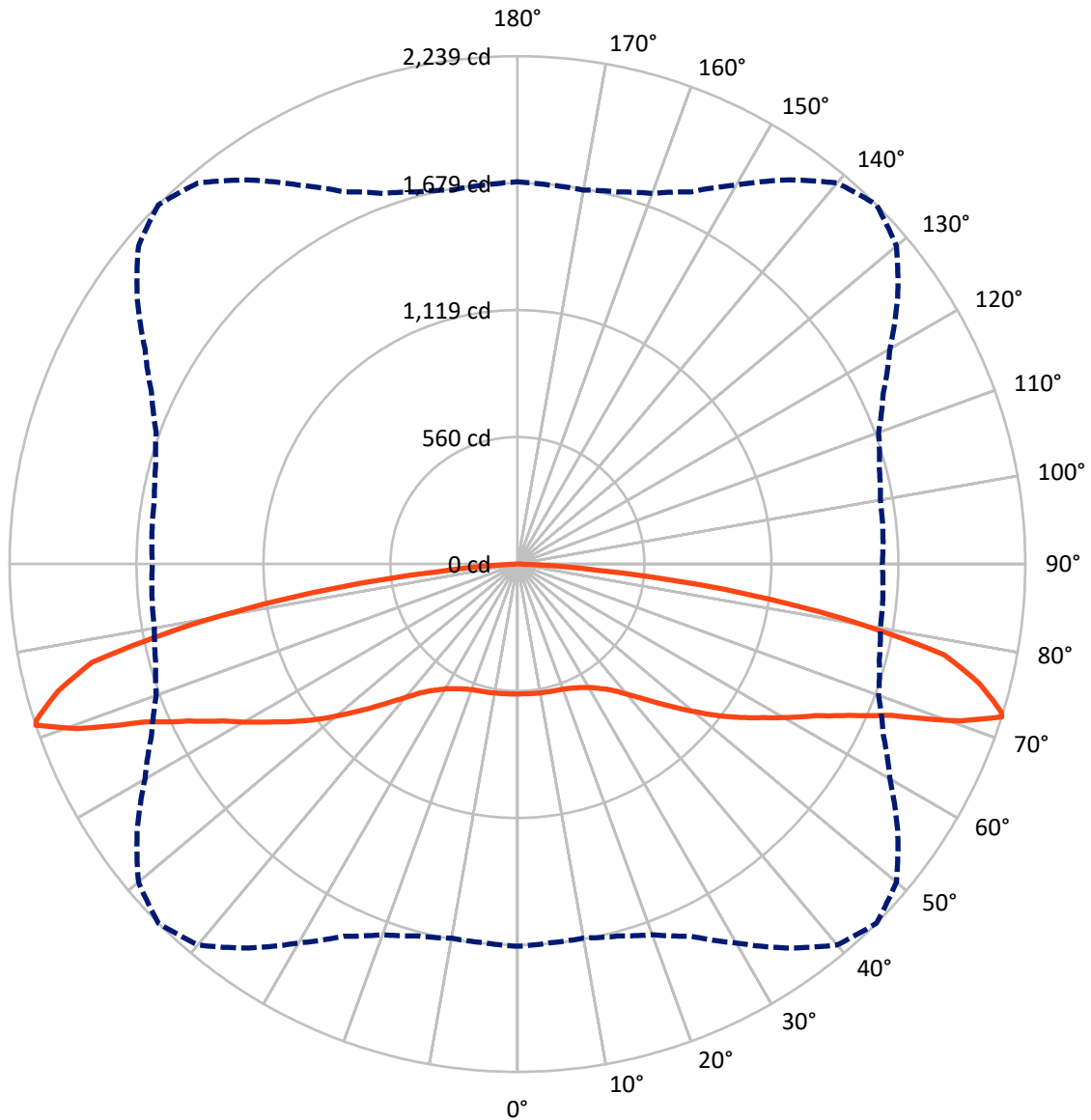
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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	3116.0	0.0	3116.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3116.0	0.0	3116.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6232.0	0.0	6232.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	0.9
10°-20°	165.3	2.7
20°-30°	279.7	4.5
30°-40°	425.6	6.8
40°-50°	673.8	10.8
50°-60°	1032.6	16.6
60°-70°	1516.0	24.3
70°-80°	1719.7	27.6
80°-90°	364.3	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°	6232.0	100.0
0°-180°	6232.0	100.0



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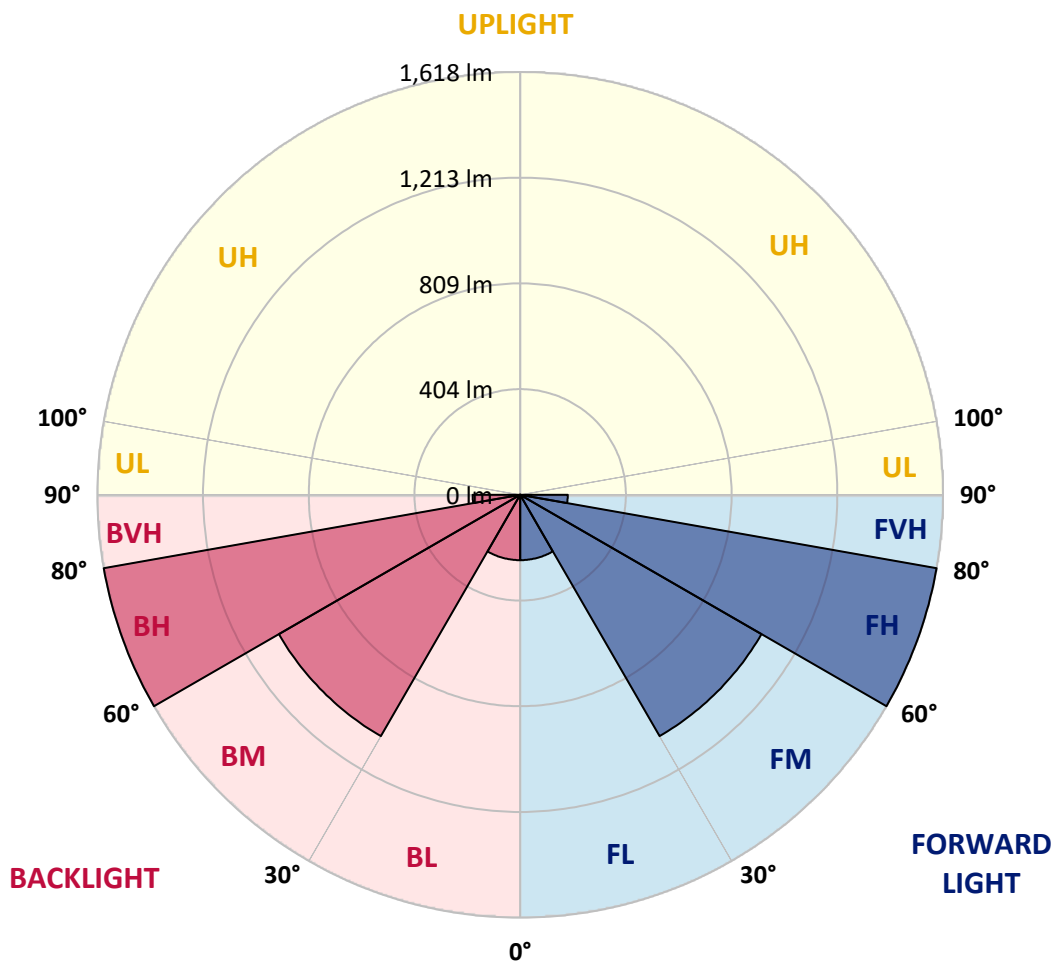
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.0	4.0			
FM (30°-60°)	1066.0	17.1			
FH (60°-80°)	1617.8	26.0			G1/1800
FVH (80°-90°)	182.1	2.9			G2/225
BL (0°-30°)	250.0	4.0	B1/500		
BM (30°-60°)	1066.0	17.1	B2/2500		
BH (60°-80°)	1617.8	26.0	B3/2500		G1/1800
BVH (80°-90°)	182.1	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°	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7
2.5°	574.8	575.5	574.8	574.1	574.1	573.4	573.4	573.4	574.1	572.7	572.7
5°	576.2	576.9	576.2	574.8	574.8	574.8	574.1	574.1	574.8	574.1	574.1
7.5°	578.3	579.0	578.3	576.9	576.9	576.2	575.5	575.5	576.9	575.5	575.5
10°	580.4	581.8	580.4	579.0	579.0	578.3	577.6	577.6	578.3	576.9	576.9
12.5°	583.9	583.9	583.2	582.5	582.5	581.8	581.1	580.4	579.7	579.0	578.3
15°	586.7	587.3	586.0	585.3	584.6	583.9	583.2	583.2	581.8	581.1	581.1
17.5°	590.1	590.8	589.4	588.0	588.0	586.7	586.0	586.0	584.6	583.9	583.2
20°	593.6	594.3	592.9	592.2	591.5	590.8	589.4	590.1	589.4	588.0	588.0
22.5°	597.8	597.8	597.1	596.4	596.4	595.7	595.0	596.4	595.0	595.0	594.3
25°	602.0	602.7	602.0	602.0	602.7	602.7	603.4	604.8	604.8	604.1	603.4
27.5°	611.0	611.0	611.0	611.0	613.1	613.1	613.8	615.9	616.6	616.6	616.6
30°	622.9	623.6	622.9	622.9	625.0	625.7	627.8	629.8	631.2	631.2	631.9
32.5°	640.3	639.6	640.3	641.7	643.1	644.5	646.6	650.1	652.1	652.8	652.8
35°	662.6	663.3	662.6	663.3	666.1	668.2	670.3	674.4	675.8	677.2	677.9
37.5°	695.3	697.4	696.0	696.0	699.5	700.9	703.7	707.2	710.0	711.4	710.7
40°	742.7	742.0	740.6	741.3	742.0	743.4	746.2	753.2	756.7	756.7	756.7
42.5°	797.1	797.8	795.7	795.0	795.7	797.1	801.2	806.8	812.4	811.0	811.7
45°	859.1	854.2	855.6	854.2	854.9	859.8	866.7	869.5	875.1	875.1	876.5
47.5°	919.7	917.6	916.9	916.2	918.3	923.2	931.5	940.6	945.5	948.3	950.3
50°	988.0	984.5	983.8	984.5	985.2	986.6	1002.6	1011.7	1023.5	1025.6	1024.9
52.5°	1054.2	1051.4	1050.0	1050.0	1052.8	1057.6	1074.4	1089.0	1102.2	1110.6	1107.1
55°	1125.9	1125.9	1121.7	1120.4	1124.5	1129.4	1152.4	1169.1	1187.9	1194.2	1184.5
57.5°	1199.8	1199.1	1192.8	1190.7	1194.2	1206.7	1226.3	1252.0	1272.2	1277.8	1272.2
60°	1272.2	1272.2	1268.8	1267.4	1270.8	1286.2	1309.9	1338.4	1362.8	1373.3	1364.2
62.5°	1355.2	1355.2	1346.1	1350.3	1355.2	1367.0	1397.0	1433.9	1466.6	1472.2	1463.8
65°	1449.2	1453.4	1446.4	1445.0	1451.3	1473.6	1507.7	1554.4	1592.7	1607.4	1594.8
67.5°	1592.7	1586.5	1578.1	1574.6	1584.4	1605.3	1647.1	1708.4	1764.8	1778.8	1764.1
70°	1741.8	1735.6	1732.8	1743.9	1764.8	1808.7	1872.8	1958.5	2037.3	2070.7	2040.0
72°	1684.7	1676.3	1674.3	1697.9	1738.4	1810.1	1928.6	2066.5	2191.9	2238.6	2180.8
72.5°	1655.4	1648.5	1647.8	1670.1	1714.0	1786.4	1902.8	2044.9	2179.4	2230.3	2168.2
75°	1537.0	1530.0	1537.0	1562.1	1606.0	1684.0	1802.5	1935.5	2056.8	2103.4	2042.8
77.5°	1373.3	1360.7	1367.0	1401.8	1450.6	1535.6	1661.0	1818.5	1935.5	1923.0	1833.1
80°	1096.0	1068.1	1098.1	1108.5	1164.2	1221.4	1342.6	1413.0	1453.4	1455.5	1391.4
82.5°	478.7	489.8	527.4	558.8	598.5	664.7	713.5	789.4	877.9	919.0	869.5
85°	31.4	39.0	62.0	73.9	102.4	124.7	179.1	260.6	314.2	359.5	303.1
87.5°	5.6	7.7	13.9	16.7	18.1	20.2	20.2	27.9	29.3	23.7	26.5
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°	572.7	572.7	572.7	572.7	572.7	572.7	572.7	572.7
2.5°	572.7	572.7	573.4	572.7	572.7	572.7	572.0	572.0
5°	573.4	573.4	574.1	574.1	573.4	573.4	573.4	573.4
7.5°	575.5	574.8	575.5	575.5	574.8	574.8	574.1	574.8
10°	576.2	576.2	576.9	576.9	576.2	576.2	576.2	576.2
12.5°	578.3	578.3	578.3	579.0	578.3	578.3	579.0	578.3
15°	580.4	579.7	579.7	579.7	579.7	580.4	580.4	581.1
17.5°	582.5	582.5	581.8	582.5	582.5	583.2	583.2	583.2
20°	586.7	586.0	584.6	586.0	586.0	586.0	586.0	586.7
22.5°	592.9	591.5	590.1	590.1	589.4	590.1	589.4	589.4
25°	602.0	599.9	597.8	597.1	596.4	595.7	595.0	595.7
27.5°	615.2	612.4	609.6	608.3	607.6	606.2	605.5	605.5
30°	629.8	627.8	623.6	622.2	620.1	618.0	618.0	617.3
32.5°	652.1	649.4	644.5	642.4	638.9	636.8	636.1	636.1
35°	675.1	671.7	669.6	666.8	662.6	660.5	659.8	659.8
37.5°	710.0	705.8	703.0	699.5	698.8	696.0	696.0	696.0
40°	755.3	751.8	748.3	745.5	743.4	741.3	738.5	738.5
42.5°	811.0	805.4	803.3	799.9	797.1	795.0	793.6	793.6
45°	872.3	867.4	864.6	859.8	859.1	857.7	854.9	854.9
47.5°	941.3	934.3	928.7	927.4	923.9	920.4	919.0	919.7
50°	1016.5	1004.7	997.0	997.0	992.8	988.0	988.7	988.0
52.5°	1093.9	1080.6	1070.9	1063.9	1059.0	1058.3	1059.0	1058.3
55°	1171.9	1158.0	1146.1	1138.5	1133.6	1128.7	1128.0	1128.0
57.5°	1252.7	1235.3	1216.5	1209.5	1204.7	1201.9	1201.9	1202.6
60°	1344.0	1315.4	1291.7	1282.7	1279.2	1280.6	1279.9	1280.6
62.5°	1436.7	1403.9	1376.1	1365.6	1360.7	1360.0	1365.6	1367.7
65°	1553.7	1513.3	1482.0	1462.4	1462.4	1460.4	1466.6	1463.8
67.5°	1706.3	1649.2	1610.9	1579.5	1580.2	1582.3	1591.3	1590.6
70°	1966.2	1865.2	1794.1	1740.4	1719.5	1705.6	1702.8	1702.8
72°	2046.3	1895.8	1778.8	1694.5	1651.3	1624.8	1617.1	1608.8
72.5°	2025.4	1870.7	1752.3	1664.5	1619.9	1593.4	1581.6	1571.1
75°	1893.7	1720.9	1592.0	1500.1	1450.6	1418.6	1412.3	1407.4
77.5°	1670.8	1517.5	1384.4	1289.0	1239.5	1198.4	1181.7	1180.3
80°	1288.3	1150.3	1047.9	973.3	928.7	898.1	899.5	889.7
82.5°	760.1	643.8	556.0	456.4	390.9	353.2	329.6	326.8
85°	223.7	151.9	96.8	69.7	50.2	37.6	27.9	25.1
87.5°	20.2	16.0	13.2	11.1	10.5	9.1	5.6	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)