

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: P140597

Luminaire Tested: **ECM-F02-LED-E1-5XQ-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140597
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-7060
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5051.2 lumens
Efficiency: N/A
Efficacy: 91.8 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

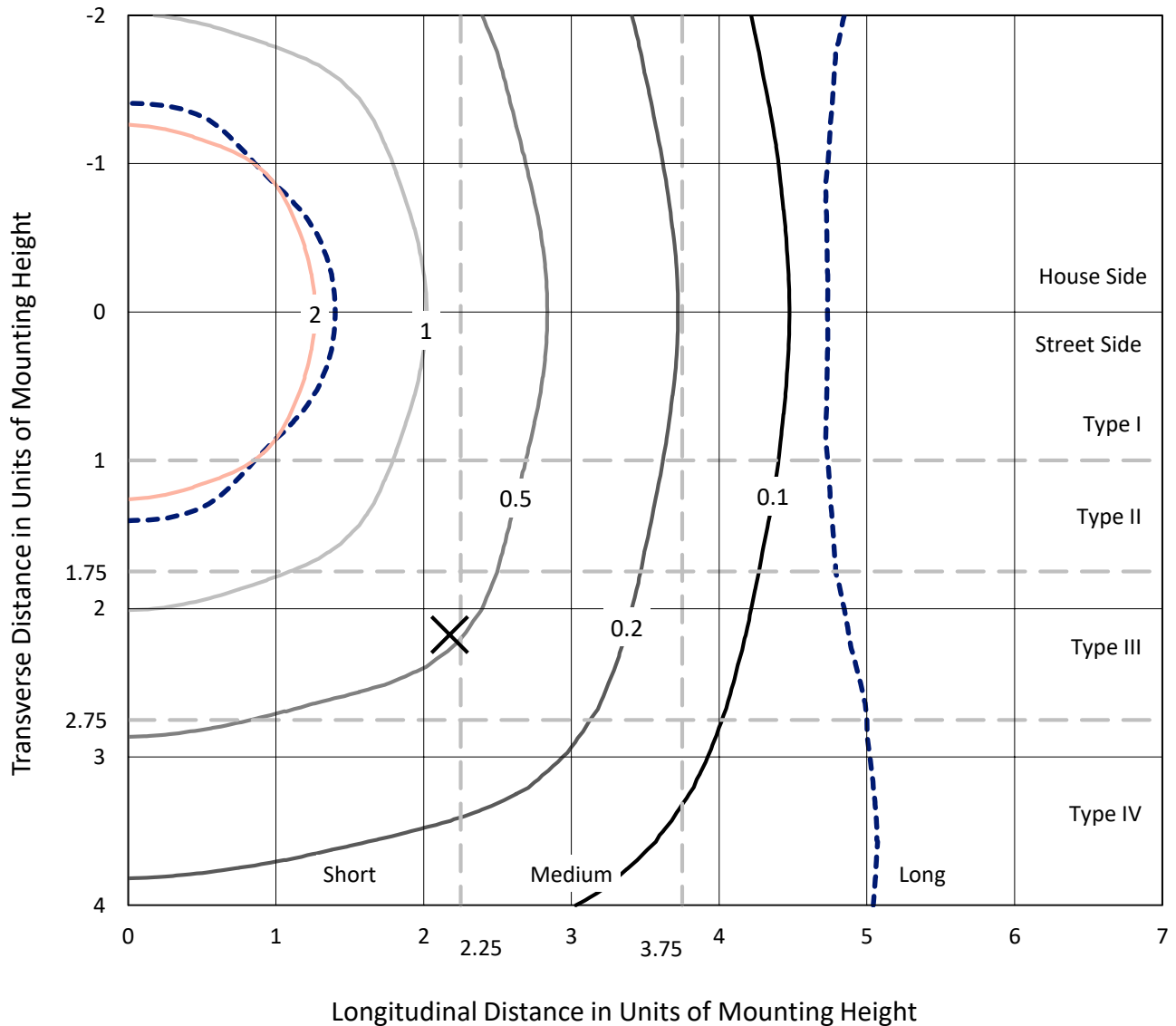
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

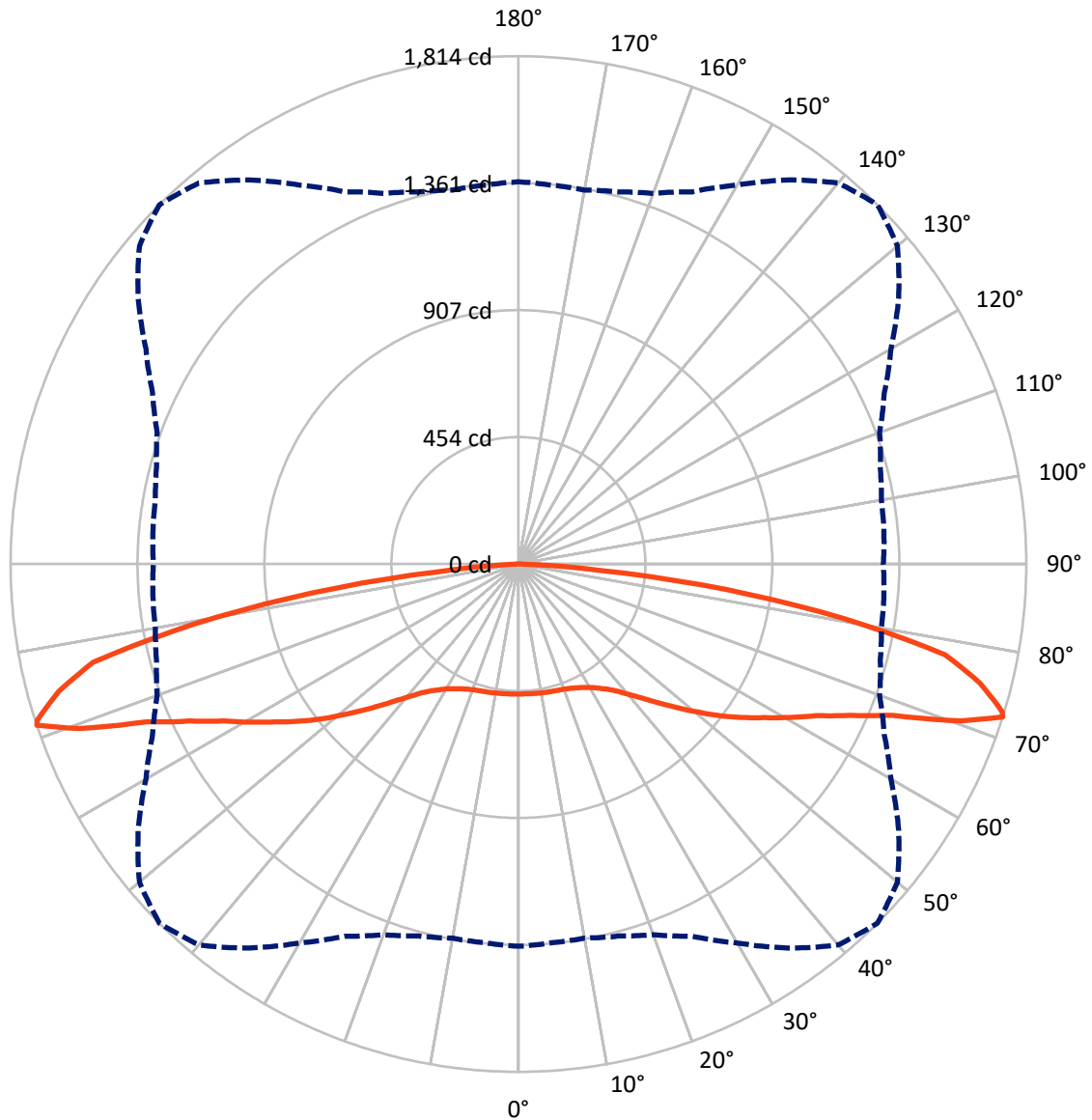
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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	2525.6	0.0	2525.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2525.6	0.0	2525.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5051.2	0.0	5051.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	0.9
10°-20°	134.0	2.7
20°-30°	226.7	4.5
30°-40°	345.0	6.8
40°-50°	546.1	10.8
50°-60°	836.9	16.6
60°-70°	1228.7	24.3
70°-80°	1393.8	27.6
80°-90°	295.3	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°	5051.2	100.0
0°-180°	5051.2	100.0



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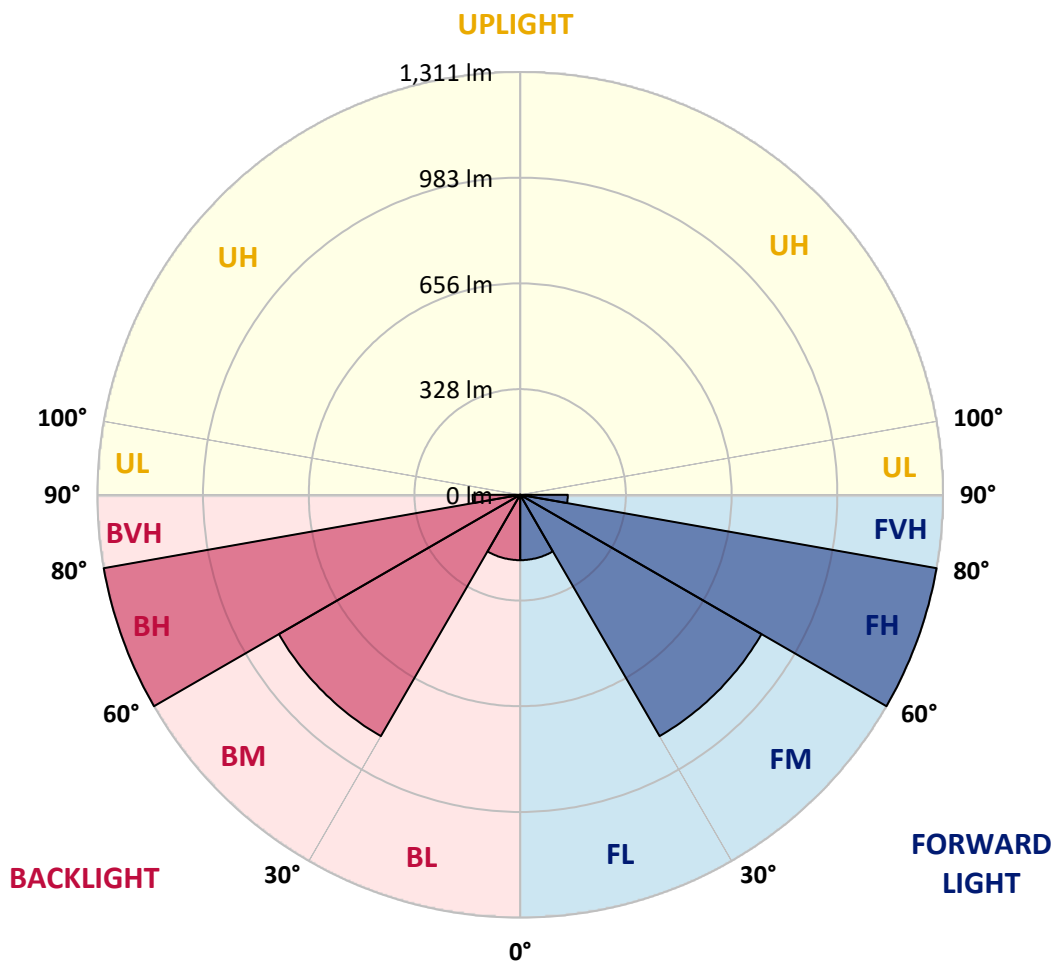
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.6	4.0			
FM	(30°-60°)	864.0	17.1			
FH	(60°-80°)	1311.3	26.0			G1/1800
FVH	(80°-90°)	147.6	2.9			G2/225
BL	(0°-30°)	202.6	4.0	B1/500		
BM	(30°-60°)	864.0	17.1	B1/1000		
BH	(60°-80°)	1311.3	26.0	B3/2500		G1/1800
BVH	(80°-90°)	147.6	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°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	465.9	466.5	465.9	465.3	465.3	464.8	464.8	464.8	465.3	464.2	464.2
5°	467.0	467.6	467.0	465.9	465.9	465.9	465.3	465.3	465.9	465.3	465.3
7.5°	468.7	469.3	468.7	467.6	467.6	467.0	466.5	466.5	467.6	466.5	466.5
10°	470.4	471.5	470.4	469.3	469.3	468.7	468.2	468.2	468.7	467.6	467.6
12.5°	473.2	473.2	472.7	472.1	472.1	471.5	471.0	470.4	469.8	469.3	468.7
15°	475.5	476.1	474.9	474.4	473.8	473.2	472.7	472.7	471.5	471.0	471.0
17.5°	478.3	478.9	477.8	476.6	476.6	475.5	474.9	474.9	473.8	473.2	472.7
20°	481.1	481.7	480.6	480.0	479.4	478.9	477.8	478.3	477.8	476.6	476.6
22.5°	484.5	484.5	484.0	483.4	483.4	482.8	482.3	483.4	482.3	482.3	481.7
25°	487.9	488.5	487.9	487.9	488.5	488.5	489.0	490.2	490.2	489.6	489.0
27.5°	495.3	495.3	495.3	495.3	497.0	497.0	497.5	499.2	499.8	499.8	499.8
30°	504.9	505.4	504.9	504.9	506.6	507.1	508.8	510.5	511.6	511.6	512.2
32.5°	519.0	518.4	519.0	520.1	521.2	522.4	524.1	526.9	528.6	529.1	529.1
35°	537.0	537.6	537.0	537.6	539.9	541.6	543.3	546.6	547.8	548.9	549.5
37.5°	563.6	565.3	564.2	564.2	567.0	568.1	570.4	573.2	575.4	576.6	576.0
40°	602.0	601.4	600.3	600.9	601.4	602.6	604.8	610.5	613.3	613.3	613.3
42.5°	646.0	646.6	644.9	644.3	644.9	646.0	649.4	653.9	658.5	657.3	657.9
45°	696.3	692.3	693.5	692.3	692.9	696.9	702.5	704.8	709.3	709.3	710.4
47.5°	745.4	743.7	743.2	742.6	744.3	748.3	755.0	762.4	766.3	768.6	770.3
50°	800.8	797.9	797.4	797.9	798.5	799.6	812.6	820.0	829.6	831.3	830.7
52.5°	854.4	852.2	851.0	851.0	853.3	857.2	870.8	882.7	893.4	900.2	897.3
55°	912.6	912.6	909.2	908.1	911.5	915.4	934.0	947.6	962.8	967.9	960.0
57.5°	972.4	971.9	966.8	965.1	967.9	978.1	993.9	1014.8	1031.2	1035.7	1031.2
60°	1031.2	1031.2	1028.3	1027.2	1030.0	1042.5	1061.7	1084.8	1104.6	1113.1	1105.7
62.5°	1098.4	1098.4	1091.0	1094.4	1098.4	1108.0	1132.3	1162.2	1188.7	1193.2	1186.5
65°	1174.6	1178.0	1172.4	1171.2	1176.3	1194.4	1222.0	1259.9	1290.9	1302.8	1292.6
67.5°	1290.9	1285.9	1279.1	1276.3	1284.2	1301.1	1335.0	1384.7	1430.4	1441.7	1429.9
70°	1411.8	1406.7	1404.5	1413.5	1430.4	1466.0	1518.0	1587.4	1651.2	1678.3	1653.5
72°	1365.5	1358.7	1357.0	1376.2	1409.0	1467.1	1563.1	1675.0	1776.6	1814.4	1767.6
72.5°	1341.8	1336.1	1335.6	1353.6	1389.2	1447.9	1542.2	1657.4	1766.4	1807.7	1757.4
75°	1245.8	1240.1	1245.8	1266.1	1301.7	1364.9	1460.9	1568.8	1667.0	1704.9	1655.8
77.5°	1113.1	1102.9	1108.0	1136.2	1175.7	1244.6	1346.3	1473.9	1568.8	1558.6	1485.8
80°	888.3	865.7	890.0	898.5	943.6	989.9	1088.2	1145.2	1178.0	1179.7	1127.7
82.5°	388.0	397.0	427.5	452.9	485.1	538.7	578.3	639.8	711.5	744.9	704.8
85°	25.4	31.6	50.3	59.9	83.0	101.1	145.1	211.2	254.7	291.4	245.7
87.5°	4.5	6.2	11.3	13.6	14.7	16.4	16.4	22.6	23.7	19.2	21.5
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°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	464.2	464.2	464.8	464.2	464.2	464.2	463.6	463.6
5°	464.8	464.8	465.3	465.3	464.8	464.8	464.8	464.8
7.5°	466.5	465.9	466.5	466.5	465.9	465.9	465.3	465.9
10°	467.0	467.0	467.6	467.6	467.0	467.0	467.0	467.0
12.5°	468.7	468.7	468.7	469.3	468.7	468.7	469.3	468.7
15°	470.4	469.8	469.8	469.8	469.8	470.4	470.4	471.0
17.5°	472.1	472.1	471.5	472.1	472.1	472.7	472.7	472.7
20°	475.5	474.9	473.8	474.9	474.9	474.9	474.9	475.5
22.5°	480.6	479.4	478.3	478.3	477.8	478.3	477.8	477.8
25°	487.9	486.2	484.5	484.0	483.4	482.8	482.3	482.8
27.5°	498.6	496.4	494.1	493.0	492.4	491.3	490.7	490.7
30°	510.5	508.8	505.4	504.3	502.6	500.9	500.9	500.3
32.5°	528.6	526.3	522.4	520.7	517.8	516.2	515.6	515.6
35°	547.2	544.4	542.7	540.4	537.0	535.4	534.8	534.8
37.5°	575.4	572.1	569.8	567.0	566.4	564.2	564.2	564.2
40°	612.2	609.3	606.5	604.2	602.6	600.9	598.6	598.6
42.5°	657.3	652.8	651.1	648.3	646.0	644.3	643.2	643.2
45°	707.0	703.1	700.8	696.9	696.3	695.2	692.9	692.9
47.5°	762.9	757.3	752.8	751.6	748.8	746.0	744.9	745.4
50°	823.9	814.3	808.1	808.1	804.7	800.8	801.3	800.8
52.5°	886.6	875.9	868.0	862.3	858.4	857.8	858.4	857.8
55°	949.9	938.6	929.0	922.7	918.8	914.8	914.3	914.3
57.5°	1015.4	1001.2	986.0	980.3	976.4	974.1	974.1	974.7
60°	1089.3	1066.2	1047.0	1039.6	1036.8	1037.9	1037.4	1037.9
62.5°	1164.4	1137.9	1115.3	1106.8	1102.9	1102.3	1106.8	1108.5
65°	1259.3	1226.6	1201.2	1185.3	1185.3	1183.6	1188.7	1186.5
67.5°	1383.0	1336.7	1305.6	1280.2	1280.8	1282.5	1289.8	1289.2
70°	1593.6	1511.7	1454.1	1410.7	1393.7	1382.4	1380.2	1380.2
72°	1658.6	1536.6	1441.7	1373.4	1338.4	1316.9	1310.7	1303.9
72.5°	1641.6	1516.3	1420.3	1349.1	1313.0	1291.5	1281.9	1273.4
75°	1534.9	1394.9	1290.4	1215.8	1175.7	1149.8	1144.7	1140.7
77.5°	1354.2	1230.0	1122.1	1044.7	1004.6	971.3	957.8	956.6
80°	1044.2	932.3	849.3	788.9	752.8	727.9	729.0	721.1
82.5°	616.1	521.8	450.6	369.9	316.8	286.3	267.1	264.9
85°	181.3	123.1	78.5	56.5	40.7	30.5	22.6	20.3
87.5°	16.4	13.0	10.7	9.0	8.5	7.3	4.5	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)